



1993  
1997

# HIGH ALTITUDE TECHNICAL DATA



# **High altitude and Sea level technical data 1993-97**



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# TABLE OF CONTENTS

| ITEM                                                          | PAGE     |
|---------------------------------------------------------------|----------|
| What are the reasons for special, high altitude set-up?.....  | 5        |
| What are the reasons for special, sea level set-up? .....     | 7        |
| Bombardier lite drive pulley.....                             | 8        |
| Drive pulley springs .....                                    | 9        |
| TRA clutch ramps .....                                        | 14       |
| Drive pulley pressure lever identification .....              | 15       |
| Drive pulley ramp identification .....                        | 17       |
| Driven pulley cams .....                                      | 21       |
| Sprocket identification chart .....                           | 22       |
| Driving chains.....                                           | 25       |
| Chaincase sprockets/drive chain length conversion charts..... | 26       |
| Carburetor throttle slide openings.....                       | 29       |
| Carburetor main jets .....                                    | 30       |
| Carburetor needle jets .....                                  | 31       |
| Carburetor pilot jet.....                                     | 32       |
| Carburetor jet needle .....                                   | 33       |
| Carburetor throttle slide cutaway .....                       | 34       |
| High Altitude Technical Data - 1997 models .....              | 1997-1   |
| High Altitude Technical Data - 1996 models .....              | 1996-1   |
| High Altitude Technical Data - 1995 models .....              | 1995-1   |
| Sea Level Technical Data - 1995 models .....                  | 1995-33  |
| High Altitude Technical Data - 1994 models .....              | 1994-1   |
| Sea Level Technical Data-1994 models .....                    | 1994-27  |
| High Altitude Technical Data - 1993 models .....              | 1993-1   |
| Pulley alignment — 1994 models .....                          | Annexe A |

## WHAT ARE THE REASONS FOR SPECIAL, HIGH ALTITUDE SET-UP?

The atmosphere surrounding our planet is most dense at sea level and as you move up from sea level, the air becomes "thinner". Air is composed of 78 percent nitrogen, 21 percent oxygen and 1 percent total of carbon dioxide, argon, neon and water. The percentage of these gases is essentially the same at all altitudes but at higher altitudes where the barometric pressure is lower, there are fewer atoms or molecules of each of these gases per cubic foot of air. The "thinner" air at 10,000 feet is still 78 percent nitrogen and 21 percent oxygen but there are fewer molecules of each in a cubic foot of air. At standard temperatures, atmospheric pressure at sea level is 14.7 lb per square inch while at 10,000 ft, atmospheric pressure is only 10 lb per square inch.

This change in the atmosphere with increasing altitude has two effects on our engines: 1) The fuel-oxygen ratio changes; 2) The cylinder pressure drops.

A chemically correct ratio of air to gasoline is that ratio which provides exactly the right amount of oxygen to "burn" a given amount of gasoline without any oxygen or unburned gasoline left over after the reaction. At standard temperature and pressure (sea level), that ratio is about 15 lb of air to 1 lb of gasoline. The amount of fuel delivered by the carburetor is fixed by the jetting. The engine has the ability to "breathe" in only a certain volume of air in a single stroke and has no way to compensate for the density of the air. It is easily seen then that if an engine drew in one cubic foot of air at 10,000 ft above sea level, the engine operating at the 10,000 ft elevation would have less oxygen in the cylinder. To maintain a chemically correct ratio of fuel and oxygen, the engine operation at 10,000 ft would have to have smaller jets installed. The final result of leaning down the jetting is that less fuel is burned, less heat is produced and the engine's power output has to drop.

The second effect of the less dense air at high altitude is a decrease in cylinder pressure even before combustion begins. That cubic foot of air the engine breathed in at 10,000 ft has fewer molecules of gas in it than the cubic foot of air at sea level. With less gas in the cylinder during compression, the cylinder pressure will be lower and the horsepower of the engine will be decreased as a result of the lower compression pressure.

The total loss of power output from the engine will be about 3 percent per 1000 ft of elevation increase. An engine that produces 50 horsepower at sea level will, then, produce about 48.5 horsepower at 1000 ft, 47 horsepower at 2000 ft and only 36.8 horsepower at 10,000.

We have already seen that a change in carburetor jetting is an absolute necessity to keep the engine from running too rich as the altitude increases. Because the horsepower is lower at all RPM's, sometimes changes in chaincase gearing and clutch calibration will be required at higher altitudes.

If we look at our engine that produced 50 HP (maximum) at sea level, that machine would have been set-up with a clutch engagement speed of about 4000 RPM where the engine was producing 16 HP. Take that same machine to a 10,000 ft mountain playground and the clutch would still engage at 4000 RPM but the engine would only be producing about 11.7 HP and it is quite likely the snowmobile would only slip the belt and bog down. There are two approaches that can be taken to overcome the bog on takeoff: 1) Increase the engagement speed of the clutch; 2) Decrease the overall gear ratio in the drive line.

Depending on the power curve shape of a particular engine, either one or a combination of the two approaches could be used to overcome the "bog" on takeoff. Because the entire power curve will be lower at altitude, however, the upshift speed of the transmission will be slowed down and the downshift pattern will be speeded up. To accomplish this, driven pulley spring preload can be increased, driven pulley cam angles can be decreased, drive pulley return springs, centrifugal weights and ramps can be changed. Exactly which components are to be changed is dependent upon a particular engine's power curve, the conditions the machine is to be used in and the altitude the machine will be operated at.

The lure of the mountains is to be able to snowmobile over 5 to 25 ft of snow with not a track on it, let alone a hard packed, groomed trail. That glorious powder snow presents some special set-up requirements too. The torque reaction slide suspension systems have a lot of adjustment and special set-up tricks. The mountain snowmobiler should be aware of them to fully enjoy that mountain powder.

The following pages will list the jetting, gearing, clutch set-up and chassis adjustments suggested for all models for the last five years. In some cases, kits are available under a separate part number.

There are additional changes such as increases in compression ratio and ignition advance that could be employed for high altitude use, however, some of those changes are of a permanent nature and not recommended for the occasional high altitude snowmobiler. Remember also, as you begin dropping below 6000 ft, make sure you change back the clutch and jetting on your machine.

**NOTE:** All specifications are given for a temperature of 0°F (-20°C).



## **CAUTION**

**Carburetor adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.**

## **WHAT ARE THE REASONS FOR SPECIAL, SEA LEVEL SET-UP?**

As written previously in the text before, the atmospheric pressure is lower at high altitude than sea level. The Summit family is designed and already calibrated for high altitude. For customers who want to use their 1995 and 1994 Summits below 4000 ft we offer sea level data sheets and kits, 1996 and 1997 Summits do not require kits.

The Summits are equipped with a HAC system (High Altitude Compensator) that provides carburetor system adjustments for all altitudes. However on Summit models, to obtain complete sea level calibration, the drive pulley return spring has to be changed in the transmission system. The 1995 and 1994 sea level sections are following the high altitude sections.

# BOMBARDIER LITE DRIVE PULLEY

## CALIBRATION PARTS

### BOMBARDIER LITE CLUTCH



A03D2JQ

| BOMBARDIER NO. | COLOR                     | SPRING PRESSURE<br>N @ 62 mm<br>(lbf @ 2.44 in)<br>N (lbf) | SPRING PRESSURE<br>N @ 40 mm<br>(lbf @ 1.57 in)<br>N (lbf) | SPRING RATE<br>N/mm<br>(lbf/in) | FREE LENGTH<br>mm<br>(in) |
|----------------|---------------------------|------------------------------------------------------------|------------------------------------------------------------|---------------------------------|---------------------------|
| 417 1156 00    | Blue                      | 255<br>(57)                                                | 507<br>(114)                                               | 11.45<br>(65.4)                 | 86<br>(3.39)              |
| 417 1159 00    | Turquoise                 | 258<br>(58)                                                | 605<br>(136)                                               | 13.36<br>(76.3)                 | 85<br>(3.35)              |
| 417 1184 00    | Red/Blue<br>on Violet     | 564<br>(127)                                               | 951<br>(214)                                               | 17.60<br>(100.5)                | 102<br>(4.02)             |
| 417 1185 00    | Yellow/Green<br>on Violet | 392<br>(88)                                                | 888<br>(199)                                               | 22.5<br>(128.5)                 | 82<br>(3.23)              |

### CENTRIFUGAL BLOCKS

| PART NUMBER | DESCRIPTION        | WEIGHT (grams) |
|-------------|--------------------|----------------|
| 417 1157 00 | Red (push type)    | 38             |
| 417 1181 00 | Black (screw type) | 39.6           |
| 417 1143 00 | Red (screw type)   | 41.8           |

### CALIBRATION WEIGHTS

| PART NUMBER | DESCRIPTION        | WEIGHT (grams) |
|-------------|--------------------|----------------|
| 417 1144 00 | Screw type         | 3.4            |
| 417 1204 00 | Screw type         | 21             |
| 417 1158 00 | Push type          | 1.8            |
| 417 1145 00 | Capsule screw type | 1.65           |

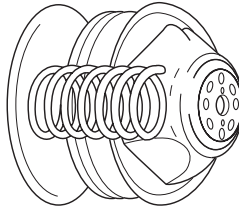
# DRIVE PULLEY SPRINGS

THE FOLLOWING REFERENCES ARE USED IN CHARTS:

- (1) Length of spring when installed in clutch and clutch in fully "open" position.
- (2) Length of spring in clutch when clutch is fully "closed".
- (3) Pounds of force per inch of spring compression.

## TRA CLUTCH SPRINGS

- 1 -



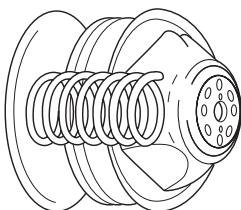
A01D11Q

| BOMBARDIER NO.                                                                                    | COLOR   | SPRING PRESSURE<br>N @ 74 mm<br>(lbf @ 2.9 in)<br>(1) | SPRING PRESSURE<br>N @ 41 mm<br>(lbf @ 1.6 in)<br>(2) | SPRING RATE<br>N/mm<br>(lbf/in)<br>(3) | FREE LENGTH<br>mm<br>(in) |
|---------------------------------------------------------------------------------------------------|---------|-------------------------------------------------------|-------------------------------------------------------|----------------------------------------|---------------------------|
| 414 6390 00                                                                                       | BL - OR | 580<br>(130)                                          | 890<br>(200)                                          | 9.4<br>(53.6)                          | 135.5<br>(5.33)           |
| 414 6056 00                                                                                       | WH      | 667<br>(150)                                          | 1077<br>(242)                                         | 12.1<br>(68.9)                         | 128.7<br>(5.07)           |
| 414 6897 00                                                                                       | YL - OR | 455<br>(102)                                          | 890<br>(200)                                          | 13.2<br>(75.2)                         | 105.7<br>(4.16)           |
| 414 6895 00                                                                                       | BL - YL | 580<br>(130)                                          | 102.5<br>(230)                                        | 13.5<br>(76.8)                         | 115.1<br>(4.53)           |
| 420 4380 99                                                                                       | RD - RD | 320<br>(72)                                           | 770<br>(173)                                          | 13.7<br>(77.9)                         | 96.3<br>(3.79)            |
| 414 6055 00                                                                                       | YL      | 455<br>(102)                                          | 1200<br>(270)                                         | 14.8<br>(84.2)                         | 122<br>(4.80)             |
| 414 7486 00                                                                                       | YL - YL | 454<br>(102)                                          | 1024<br>(229.5)                                       | 17.3<br>(98.6)                         | 100.3<br>(3.95)           |
| 414 8177 00                                                                                       | BL - GN | 579<br>(129.7)                                        | 1157<br>(259.3)                                       | 17.5<br>(99.7)                         | 105.7<br>(4.16)           |
| 414 7421 00                                                                                       | YL - GN | 455<br>(102)                                          | 1157<br>(260)                                         | 21.3<br>(121.2)                        | 94<br>(3.7)               |
| 414 8175 00                                                                                       | RD - YL | 318<br>(71.3)                                         | 1024<br>(229.5)                                       | 21.4<br>(121.7)                        | 87.9<br>(3.46)            |
| 414 6894 00                                                                                       | BL - BL | 580<br>(130)                                          | 1290<br>(290)                                         | 21.5<br>(122.6)                        | 99.8<br>(3.93)            |
| 414 8179 00                                                                                       | VI - VI | 712<br>(160)                                          | 1420<br>(319)                                         | 21.6<br>(122.7)                        | 105.7<br>(4.16)           |
| BL: Blue      GN: Green      OR: Orange      RD: Red      VI: Violet<br>WH: White      YL: Yellow |         |                                                       |                                                       |                                        |                           |

NOTE: TRA clutch springs **cannot** be used in other drive pulleys.

## TRA CLUTCH SPRINGS

- 2 -



A01D11Q

| BOMBARDIER<br>NO.                                                                               | COLOR<br>(1) | SPRING<br>PRESSURE<br>N @ 74 mm<br>(lbf @ 2.9 in)<br>(2) | SPRING<br>PRESSURE<br>N @ 41 mm<br>(lbf @ 1.6 in)<br>(3) | SPRING<br>RATE<br>N/mm<br>(lbf/in) | FREE<br>LENGTH<br>mm<br>(in) |
|-------------------------------------------------------------------------------------------------|--------------|----------------------------------------------------------|----------------------------------------------------------|------------------------------------|------------------------------|
| 414 8180 00                                                                                     | YL - BL      | 454<br>(101.7)                                           | 1290<br>(289.1)                                          | 25.3<br>(144.5)                    | 91.0<br>(3.58)               |
| 414 6892 00                                                                                     | RD - GN      | 320<br>(72)                                              | 1157<br>(260)                                            | 25.4<br>(144.6)                    | 85.9<br>(3.38)               |
| 414 8177 00                                                                                     | BL - GN      | 580<br>(130)                                             | 1157<br>(260)                                            | 17.52<br>(122.7)                   | 105.7<br>(4.16)              |
| 414 7010 00                                                                                     | RD - VI      | 320<br>(72)                                              | 1420<br>(320)                                            | 33.52<br>(140.7)                   | 83<br>(3.27)                 |
| 414 7682 00                                                                                     | GN - BL ①    | 750<br>(162)                                             | 1290<br>(290)                                            | 12.12<br>(68.9)                    | 144.3<br>(5.68)              |
| 414 8178 00                                                                                     | BL - VI      | 580<br>(130)                                             | 1420<br>(320)                                            | 25.61<br>(145.7)                   | 96.6<br>(3.80)               |
| 414 7542 00                                                                                     | PI - VI ②    | 1025<br>(230)                                            | 1425<br>(320)                                            | 12.15<br>(68.9)                    | 154.7<br>(6.09)              |
| 414 7628 00                                                                                     | GN - VI ③    | 667<br>(160)                                             | 1425<br>(320)                                            | 16.21<br>(92.2)                    | 126.7<br>(4.99)              |
| 414 7569 00                                                                                     | GN - PI ④    | 667<br>(160)                                             | 1650<br>(350)                                            | 20.21<br>(115)                     | 116.1<br>(4.57)              |
| 414 9163 00                                                                                     | BL - PI ⑤    | 580<br>(130)                                             | 1650<br>(350)                                            | —                                  | 93.5<br>(3.68)               |
| 414 9930 00                                                                                     | YL - RD      | 445<br>(100)                                             | 756<br>(170)                                             | 9.42<br>(54)                       | 121.1<br>(4.77)              |
| 414 9914 00                                                                                     | PI - WH      | 1023<br>(230)                                            | 1690<br>(380)                                            | 20.2<br>(115.5)                    | 124.5<br>(4.90)              |
| BL: Blue      GN: Green      PI: Pink      RD: Red      VI: Violet<br>WH: White      YL: Yellow |              |                                                          |                                                          |                                    |                              |

① Formely Pink - Green

② Formely Yellow - Red

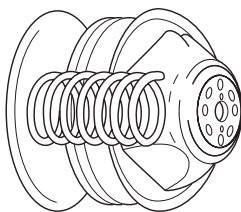
③ Formely Green - Yellow

④ Formely Green

⑤ Formely Blue

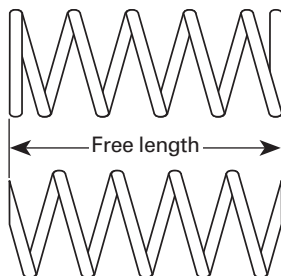
**NOTE:** TRA clutch springs **cannot** be used in other drive pulleys.

## IDENTIFICATION CHARTS



A01D11Q

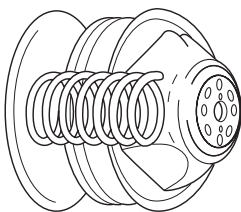
Type "A"



Type "B"

A01D12Q

## ROUND SHAFT CLUTCH SPRING

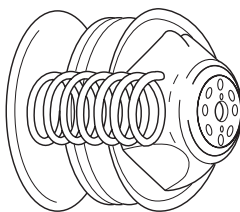


A01D11Q

| BOMBARDIER<br>NO. | COLOR      | SPRING<br>PRESSURE<br>lbf @ 2.0 in<br>(1) | SPRING<br>PRESSURE<br>lbf @ 1.25 in<br>(2) | SPRING<br>RATE<br>lbf/in<br>(3) | FREE<br>LENGTH<br>in | TYPE |
|-------------------|------------|-------------------------------------------|--------------------------------------------|---------------------------------|----------------------|------|
| 414 2580 00       | Bronze     | 41                                        | 66                                         | 34                              | 3.20                 | A    |
| 414 4422 00<br>①  | Black      | 75                                        | 101                                        | 35                              | 4.13                 | B    |
| 414 1697 00       | Light Blue | 105                                       | 135                                        | 39                              | 4.69                 | A    |
| 414 0013 00       | Black      | 44                                        | 77                                         | 44                              | 3.0                  | A    |
| 414 4423 00<br>①  | Yellow     | 83                                        | 124                                        | 55                              | 3.50                 | B    |
| 414 2581 00       | Blue       | 71                                        | 121                                        | 67                              | 3.06                 | A    |
| 414 2328 00       | Gold       | 91                                        | 164                                        | 98                              | 2.93                 | A    |

① Spring seat differs from original

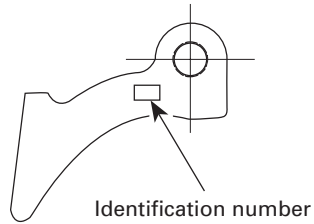
## SQUARE SHAFT CLUTCH SPRINGS



A01D11Q

| BOMBARDIER NO. | COLOR      | SPRING PRESSURE<br>lbf @ 2.5 in<br>(1) | SPRING PRESSURE<br>lbf @ 1.25 in<br>(2) | SPRING RATE<br>lbf/in<br>(3) | FREE LENGTH<br>in | TYPE |
|----------------|------------|----------------------------------------|-----------------------------------------|------------------------------|-------------------|------|
| 414 196700     | Light Blue | 86                                     | 135                                     | 39                           | 4.69              | A    |
| 414 4131 00    | Olive      | 100                                    | 165                                     | 52                           | 4.17              | A    |
| 414 4332 00    | Beige      | 115                                    | 192.5                                   | 62                           | 4.35              | A    |
| 414 2835 00    | Red        | 70.5                                   | 158                                     | 70                           | 3.50              | A    |
| 414 4065 00    | Orange     | 96                                     | 196                                     | 80                           | 3.80              | A    |
| 414 3508 00    | Pink       | 130                                    | 239                                     | 87                           | 4.00              | A    |
| 414 2328 00    | Gold       | 41.5                                   | 164                                     | 98                           | 2.93              | A    |
| 414 4471 00    | White      | 100                                    | 230                                     | 105                          | 3.44              | A    |
| 414 2610 00    | Purple     | 44.5                                   | 184.5                                   | 112                          | 2.90              | A    |
| 414 4784 00    | Black      | 62                                     | 203                                     | 112                          | 3.06              | A    |
| 414 3412 00    | Brown      | 66.5                                   | 225                                     | 127                          | 3.03              | A    |
| 414 4053 00    | Grey       | 78.5                                   | 237                                     | 127                          | 3.12              | A    |

## TRA CLUTCH RAMPS



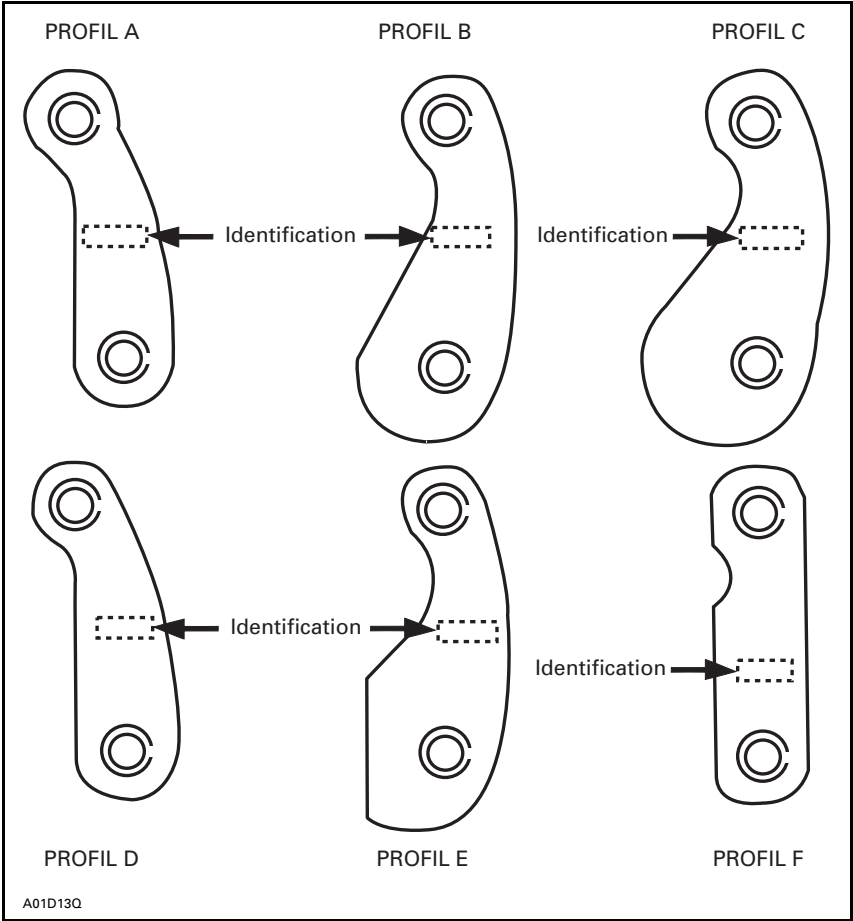
A01D18Q

| PART NUMBER | IDENTIFICATION |
|-------------|----------------|
| 420 4801 44 | 144            |
| 420 4801 45 | 145            |
| 420 4801 46 | 146            |
| 420 4801 49 | 149            |
| 420 4802 21 | 221            |
| 420 4802 21 | 223 or 226     |

| PART NUMBER | IDENTIFICATION |
|-------------|----------------|
| 420 4802 26 | 226            |
| 420 4802 27 | 227            |
| 420 4802 28 | 228            |
| 420 4802 80 | 280            |
| 504 0699 00 | 0699           |
| 504 2594 00 | DA9            |

**DRIVE PULLEY PRESSURE  
LEVER IDENTIFICATION**

**- 1 -**



## DRIVE PULLEY PRESSURE LEVER IDENTIFICATION

- 2 -

| PROFIL | IDENTIFICATION | WEIGHT (g) |
|--------|----------------|------------|
| A      | A-2-S          | 21.70      |
| A      | A-3-S          | 23.80      |
| A      | A-3-S-H        | 22.10      |
| A      | A-4-S          | 26.16      |
| A      | A-5-S          | 27.05      |
| A      | A-6-S          | 32.30      |
| A      | A-8-S          | 38.45      |
| B      | B-1-K-S        | 24.30      |
| B      | B-2-K-S        | 26.00      |
| B      | B-2-K-S-H      | 26.00      |
| B      | B-3-K-S-H      | 28.30      |
| C      | C-3-L-S        | 33.75      |
| C      | C-4-L          | 36.85      |
| C      | C-4-L-S        | 36.85      |
| C      | C-4-L-S-H      | 34.95      |

| PROFIL | IDENTIFICATION | WEIGHT (g) |
|--------|----------------|------------|
| C      | C-6-L          | 43.65      |
| C      | C-6-L-H        | 41.14      |
| C      | C-7-L          | 47.35      |
| C      | C-7-L-H        | 44.80      |
| C      | C-7-L-X        | 42.20      |
| C      | C-8            | 55.55      |
| C      | C-8-L          | 50.95      |
| C      | C-8-L-H        | 46.40      |
| C      | C-8-M          | 52.10      |
| C      | C-8-M-H        | 50.71      |
| D      | D-2-S          | 20.70      |
| D      | D-4            | 25.40      |
| E      | E-4            | 32.65      |
| F      | F-8            | 13.90      |

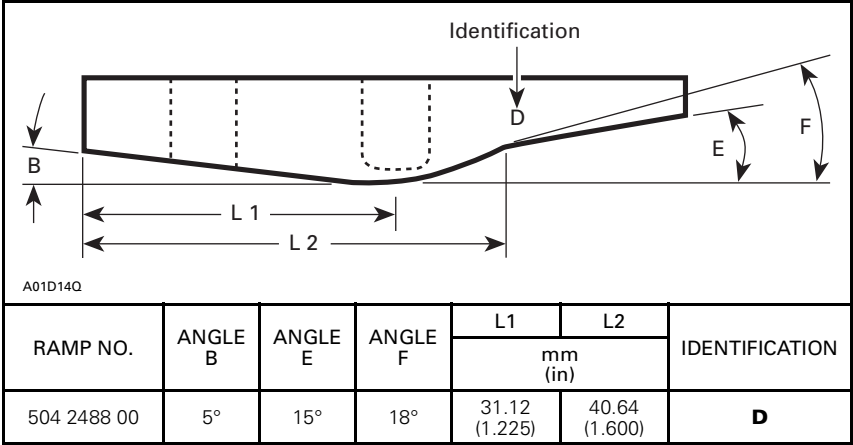
Calibration washers (2 ramp models)

P/N 391 3022 00

Small calibration washers (3 ramp models)

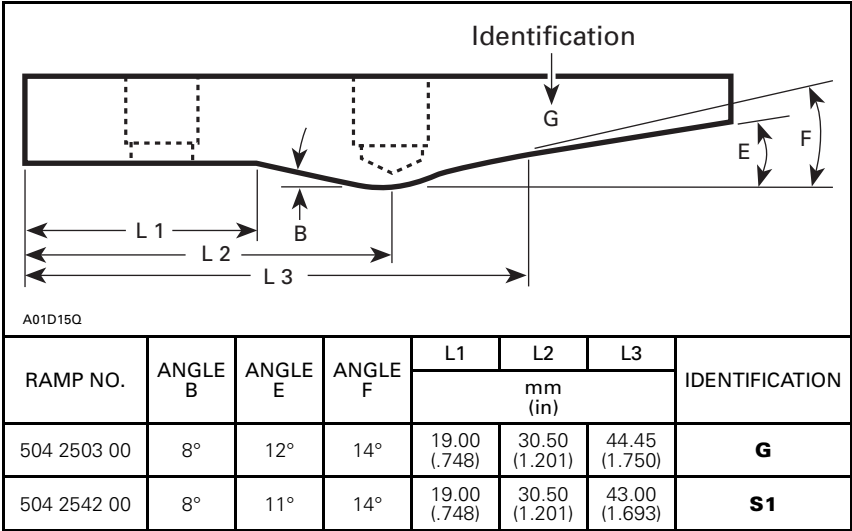
P/N 391 3021 00

**DRIVE PULLEY RAMP IDENTIFICATION**  
**- 1-**



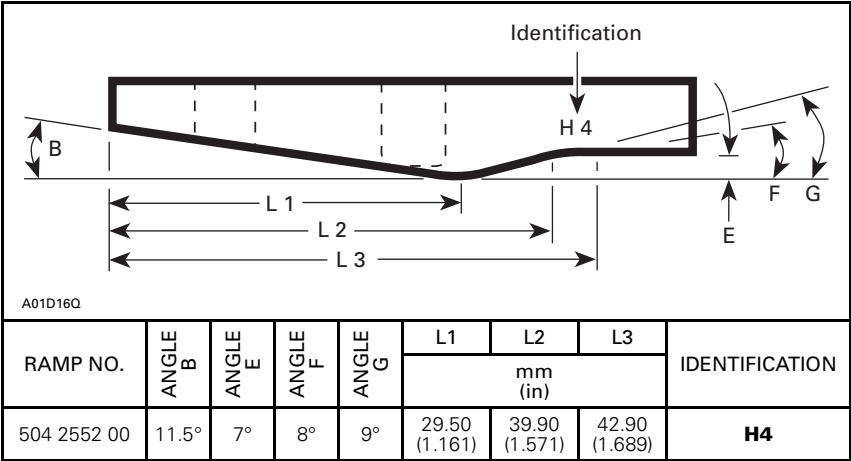
# DRIVE PULLEY RAMP IDENTIFICATION

-2-



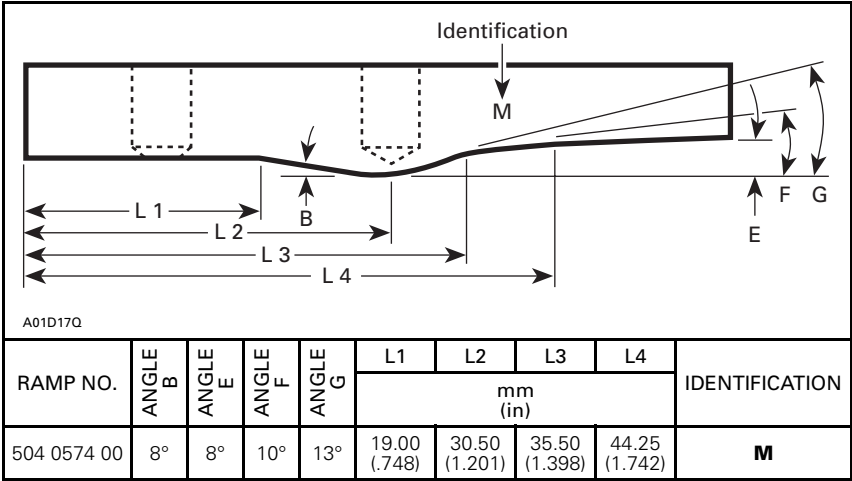
**DRIVE PULLEY RAMP IDENTIFICATION**

**-3-**

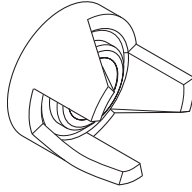


DRIVE PULLEY RAMP IDENTIFICATION

-4-



## DRIVEN PULLEY CAMS



A01D19Q

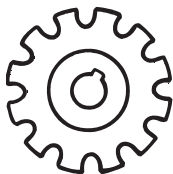
| PART NUMBER | NOTE | CAM ANGLE |
|-------------|------|-----------|
| 504 1355 00 | 2    | 36°       |
| 504 0874 00 | 4    | 37.8°     |
| 504 1380 00 | 4    | 37.8°     |
| 504 0921 00 | 3    | 40°       |
| 504 1374 00 | 2    | 40°       |
| 504 0960 00 | 3    | 44°       |
| 504 1348 00 | 2    | 44°       |
| 504 1282 00 | 1    | 44°       |
| 504 1363 00 | 2    | 50°       |
| 504 1401 00 | 3    | 50°       |
| 504 0961 00 | 3    | 50°       |
| 504 1390 00 | 2    | 53°       |
| 504 1409 00 | 3    | 47°       |

**NOTE:**

- 1 - 87.8 mm dia./1/4 mm keyway
- 2 - 87.8 mm dia./8 mm keyway
- 3 - 88.9 mm dia./8 mm keyway extended center sleeve
- 4 - Movable sleeve

# SPROCKET IDENTIFICATION CHART

- 1 -



A01D1AQ

| PART NO.    | TEETH | TYPE   | SHAFT<br>(in) | SPLINES   | PITCH<br>(in) |
|-------------|-------|--------|---------------|-----------|---------------|
| 504 0008 00 | 10    | Single | 3/4           | <b>8</b>  | 1/2           |
| 504 0013 00 | 25    | Single | 1             | <b>10</b> | 1/2           |
| 504 0541 00 | 12    | Single | 1             | <b>15</b> | 1/2           |
| 504 0885 00 | 14    | Single | 1             | <b>15</b> | 1/2           |
| 504 0542 00 | 15    | Single | 1             | <b>15</b> | 1/2           |
| 504 0886 00 | 25    | Single | 1             | <b>15</b> | 1/2           |
| 504 0543 00 | 27    | Single | 1             | <b>15</b> | 1/2           |
| 504 0091 00 | 14    | Double | 3/4           | <b>8</b>  | 3/8           |
| 504 0044 00 | 15    | Double | 3/4           | <b>8</b>  | 3/8           |
| 504 0130 00 | 33    | Double | 1             | <b>10</b> | 3/8           |
| 504 0045 00 | 34    | Double | 1             | <b>10</b> | 3/8           |
| 504 0129 00 | 35    | Double | 1             | <b>10</b> | 3/8           |
| 504 0522 00 | 37    | Double | 1             | <b>10</b> | 3/8           |
| 504 0508 00 | 38    | Double | 1             | <b>10</b> | 3/8           |
| 504 0521 00 | 39    | Double | 1             | <b>10</b> | 3/8           |
| 504 0124 00 | 15    | Double | 1             | <b>15</b> | 3/8           |
| 504 0106 00 | 16    | Double | 1             | <b>15</b> | 3/8           |
| 504 0085 00 | 18    | Double | 1             | <b>15</b> | 3/8           |
| 504 0082 00 | 19    | Double | 1             | <b>15</b> | 3/8           |
| 504 0435 00 | 16    | Triple | 3/4           | <b>8</b>  | 3/8           |

# SPROCKET IDENTIFICATION CHART

- 2 -

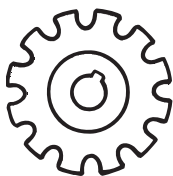


A01D1AQ

| PART NO.                    | TEETH | TYPE   | SHAFT<br>(in) | SPLINES   | PITCH<br>(in) |
|-----------------------------|-------|--------|---------------|-----------|---------------|
| 504 0440 00                 | 21    | Triple | 1             | <b>10</b> | 3/8           |
| 504 0522 00                 | 37    | Triple | 1             | <b>10</b> | 3/8           |
| 504 0235 00                 | 38    | Triple | 1             | <b>10</b> | 3/8           |
| 504 0399 00                 | 40    | Triple | 1             | <b>10</b> | 3/8           |
| 420 4349 10                 | 17    | Triple | 1             | <b>15</b> | 3/8           |
| 504 0436 00                 | 17    | Triple | 1             | <b>15</b> | 3/8           |
| 504 0438 00                 | 19    | Triple | 1             | <b>15</b> | 3/8           |
| 504 0645 00                 | 46    | Triple | 1             | <b>15</b> | 3/8           |
| 504 0667 00                 | 54    | Triple | 1             | <b>15</b> | 3/8           |
| 420 4349 00                 | 17    | Silent | 1             | <b>15</b> | 3/8           |
| 504 0718 00                 | 17    | Silent | 1             | <b>15</b> | 3/8           |
| 504 0701 00                 | 18    | Silent | 1             | <b>15</b> | 3/8           |
| 414 6805 00                 | 19    | Silent | 1             | <b>15</b> | 3/8           |
| 504 0748 00<br>(heavy duty) | 20    | Silent | 1             | <b>15</b> | 3/8           |
| 504 0840 00                 | 21    | Silent | 1             | <b>15</b> | 3/8           |
| 504 0747 00<br>(heavy duty) | 22    | Silent | 1             | <b>15</b> | 3/8           |
| 504 0784 00                 | 23    | Silent | 1             | <b>15</b> | 3/8           |
| 504 0854 00                 | 23    | Silent | 1             | <b>15</b> | 3/8           |
| 504 0878 00                 | 23    | Silent | 1             | <b>15</b> | 3/8           |

# SPROCKET IDENTIFICATION CHART

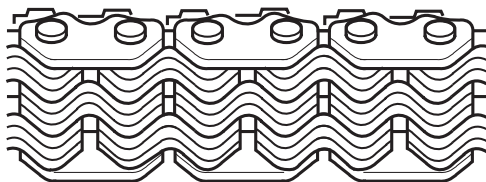
- 3 -



A01D1AQ

| PART NO.    | TEETH | TYPE   | SHAFT<br>(in) | SPLINES   | PITCH<br>(in) |
|-------------|-------|--------|---------------|-----------|---------------|
| 504 0786 00 | 24    | Silent | 1             | <b>15</b> | 3/8           |
| 504 0841 00 | 25    | Silent | 1             | <b>15</b> | 3/8           |
| 504 0843 00 | 25    | Silent | 1             | <b>15</b> | 3/8           |
| 504 0852 00 | 25    | Silent | 1             | <b>15</b> | 3/8           |
| 504 0559 00 | 26    | Silent | 1             | <b>15</b> | 3/8           |
| 504 0853 00 | 26    | Silent | 1             | <b>15</b> | 3/8           |
| 504 0890 00 | 40    | Silent | 1             | <b>15</b> | 3/8           |
| 504 0709 00 | 44    | Silent | 1             | <b>15</b> | 3/8           |
| 504 0844 00 | 44    | Silent | 1             | <b>15</b> | 3/8           |
| 581 0968 00 | 44    | Silent | 1             | <b>15</b> | 3/8           |
| 504 0882 00 | 44    | Silent | 1             | <b>15</b> | 3/8           |
| 504 0564 00 | 38    | Silent | 1-1/8         | <b>17</b> | 3/8           |
| 504 0562 00 | 40    | Silent | 1-1/8         | <b>17</b> | 3/8           |
| 504 0573 00 | 44    | Silent | 1-1/8         | <b>17</b> | 3/8           |
| 504 0855 00 | 44    | Silent | 1-1/8         | <b>17</b> | 3/8           |
| 414 6526 00 | 44    | Silent | 1-13/16       | <b>29</b> | 3/8           |

## DRIVING CHAINS



A00D10Q

| PART NO.    | TYPE   | PITCH<br>(in) | ROLLER QTY |
|-------------|--------|---------------|------------|
| 412 1048 00 | Single | 1/2           | 62         |
| 412 1063 00 | Single | 1/2           | 62         |
| 412 1062 00 | Single | 1/2           | 64         |
| 412 1041 00 | Double | 3/8           | 88         |
| 412 1010 00 | Double | 3/8           | 90         |
| 412 1061 00 | Double | 3/8           | 90         |
| 412 1051 00 | Double | 3/8           | 92         |
| 420 4990 80 | Triple | 3/8           | 92         |
| 420 4990 84 | Triple | 3/8           | 96         |
| 420 4990 87 | Triple | 3/8           | 98         |
| 420 4990 82 | Triple | 3/8           | 102        |
| 412 1060 00 | Silent | 3/8           | 68         |
| 412 1059 00 | Silent | 3/8           | 70         |
| 412 1055 00 | Silent | 3/8           | 72 - 11    |
| 412 1067 00 | Silent | 3/8           | 72 - 13    |
| 412 1058 00 | Silent | 3/8           | 74 - 11    |
| 412 1069 00 | Silent | 3/8           | 74 - 13    |
| 412 1049 00 | Silent | 3/8           | 92         |
| 412 1065 00 | Silent | 3/8           | 94         |
| 412 1064 00 | Silent | 3/8           | 96         |
| 412 1066 00 | Silent | 3/8           | 98         |

# CHAINCASE SPROCKETS/ DRIVE CHAIN LENGTH CONVERSION CHARTS

SAFARI CITATION/E 1989-1990

CITATION/E 1991

TUNDRA/LT 1987 to 1994

ÉLAN 1994

Available Parts

| DRIVING CHAIN, SINGLE, 1/2" PITCH |                        |       |             |
|-----------------------------------|------------------------|-------|-------------|
| LINKS                             | P/N                    | LINKS | P/N         |
| 62                                | 412 1048 00 (Citation) | 64    | 412 1062 00 |
| 62                                | 412 1063 00 (Tundra)   |       |             |

| UPPER SPROCKET, SINGLE, 1/2" PITCH, 1" SHAFT, 15 SPLINES |             |             |             |
|----------------------------------------------------------|-------------|-------------|-------------|
| NB OF TEETH                                              | P/N         | NB OF TEETH | P/N         |
| 12                                                       | 504 0541 00 | 15          | 504 0542 00 |
| 14                                                       | 504 0885 00 |             |             |

| LOWER SPROCKET, SINGLE, 1/2" PITCH, 1" SHAFT, 15 SPLINES |             |             |             |
|----------------------------------------------------------|-------------|-------------|-------------|
| NB OF TEETH                                              | P/N         | NB OF TEETH | P/N         |
| 25                                                       | 504 0886 00 | 27          | 504 0543 00 |

| CHAIN LENGTH CONVERSION CHART |               |    |
|-------------------------------|---------------|----|
| UPPER SPROCKET                | LOWER SPOCKET |    |
|                               | 25            | 27 |
| 12                            | 62            | 62 |
| 14                            | 62            | 64 |
| 15                            | 64            | 64 |

SAFARI LC/GLX 1990-1991  
SAFARI LX/LXE 1990 to 1992  
SAFARI L/LE/DL 1990 to 1993  
SCOUT 1991-1992

SAFARI LCE/GLX 1992  
SAFARI II 1992-1994  
SAFARI RALLY 1993  
SAFARI L/DL 1994

Available Parts

| DRIVING CHAIN, 3/8" SILENT |             |       |             |
|----------------------------|-------------|-------|-------------|
| LINKS                      | P/N         | LINKS | P/N         |
| 94                         | 412 1065 00 | 98    | 412 1066 00 |
| 96                         | 412 1064 00 |       |             |

| UPPER SPROCKET, SILENT, 3/8" PITCH, 1" SHAFT, 15 SPLINES |             |             |             |
|----------------------------------------------------------|-------------|-------------|-------------|
| NB OF TEETH                                              | P/N         | NB OF TEETH | P/N         |
| 17                                                       | 504 0718 00 | 20          | 504 0748 00 |
| 18                                                       | 504 0701 00 | 21          | 504 0840 00 |
| 19                                                       | 414 6805 00 | 22          | 504 0747 00 |

| LOWER SPROCKET, SILENT, 3/8" PITCH, 1" SHAFT, 15 SPLINES |             |
|----------------------------------------------------------|-------------|
| NB OF TEETH                                              | P/N         |
| 44                                                       | 504 0709 00 |

| LOWER SPROCKET, SILENT, 3/8" PITCH, 1-13/16" SHAFT, 29 SPLINES |             |
|----------------------------------------------------------------|-------------|
| NB OF TEETH                                                    | P/N         |
| 44                                                             | 414 6526 00 |

| CHAIN LENGTH CONVERSION CHART |               |
|-------------------------------|---------------|
| UPPER SPROCKET                | LOWER SPOCKET |
|                               | 44            |
| 17                            | 94            |
| 18                            | 94            |
| 19                            | 96            |
| 20                            | 96            |
| 21                            | 96            |
| 22                            | 98            |

Example: A 22 teeth sprocket with a 44 teeth sprocket requires a 98-link chain.

FORMULA MX SERIES 1989 to 1992  
 FORMULA PLUS SERIES 1989 to 1992  
 FORMULA MACH 1 SERIES 1989 to 1992  
 FORMULA GRAND TOURING 1993  
 GRAND TOURING/XTC/SE 1994

MACH 1/Z 1994  
 SUMMIT 583/470 1994  
 MX/Z 1994  
 FORMULA ST/STX/Z 1994

Available Parts

| DRIVING CHAIN, 3/8" SILENT |             |       |             |
|----------------------------|-------------|-------|-------------|
| LINKS                      | P/N         | LINKS | P/N         |
| 68                         | 412 1060 00 | 72    | 412 1067 00 |
| 70                         | 412 1059 00 | 74    | 412 1058 00 |
| 72                         | 412 1055 00 | 74    | 412 1069 00 |

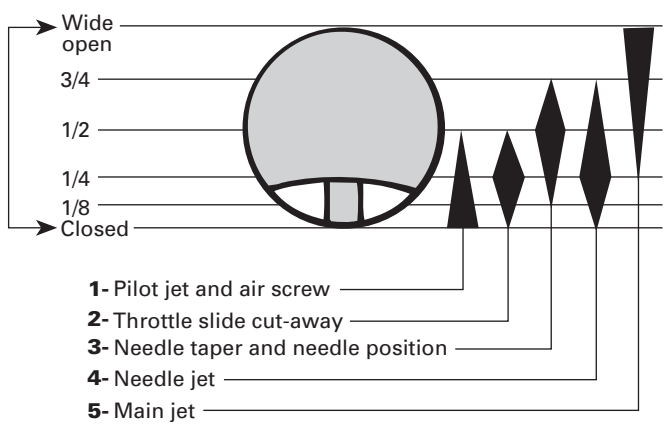
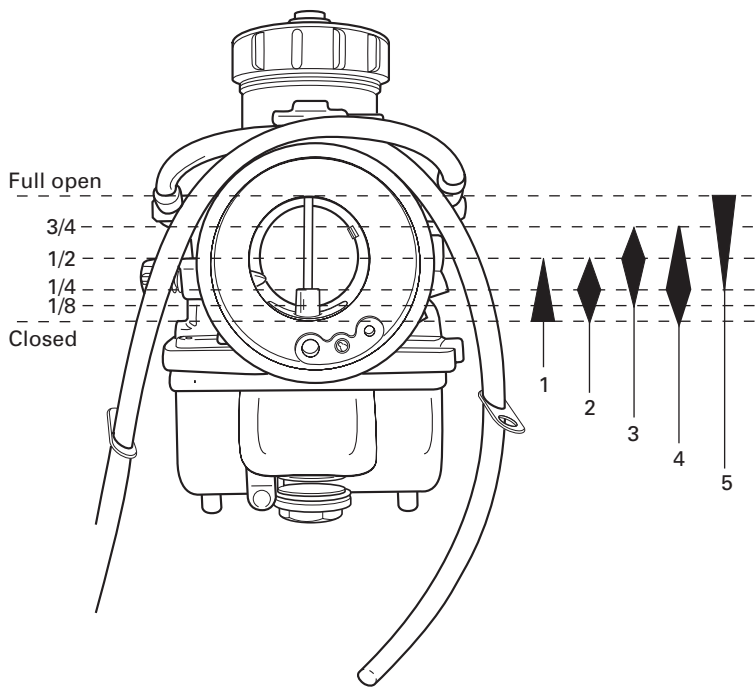
| UPPER SPROCKET, SILENT, 3/8" PITCH, 1" SHAFT, 15 SPLINES |             |             |             |
|----------------------------------------------------------|-------------|-------------|-------------|
| NB OF TEETH                                              | P/N         | NB OF TEETH | P/N         |
| 20                                                       | 504 0748 00 | 24          | 504 0786 00 |
| 21                                                       | 504 0840 00 | 25          | 504 0841 00 |
| 22                                                       | 504 0747 00 | 25          | 504 0843 00 |
| 23                                                       | 504 0784 00 | 26          | 504 0559 00 |
| 23                                                       | 504 0854 00 | 26          | 504 0853 00 |

| LOWER SPROCKET, SILENT, 3/8" PITCH, 1-1/8" SHAFT, 17 SPLINES |             |             |                             |
|--------------------------------------------------------------|-------------|-------------|-----------------------------|
| NB OF TEETH                                                  | P/N         | NB OF TEETH | P/N                         |
| 38                                                           | 504 0564 00 | 44          | 504 0855 00                 |
| 40                                                           | 504 0562 00 | 44          | 504 0844 00 (Grand Touring) |
| 44                                                           | 504 0573 00 |             |                             |

| CHAIN LENGTH CONVERSION CHART |               |    |    |
|-------------------------------|---------------|----|----|
| UPPER SPROCKET                | LOWER SPOCKET |    |    |
|                               | 38            | 40 | 40 |
| 20                            | 68            | 68 | 72 |
| 21                            | 70            | 70 | 72 |
| 22                            | 70            | 70 | 72 |
| 23                            | 70            | 70 | 72 |
| 24                            | 70            | 72 | 74 |
| 25                            | 70            | 72 | 74 |
| 26                            | 70            | 72 | 74 |

Example: A 22 teeth sprocket with a 44 teeth sprocket requires a 72-link chain.

# CARBURETOR THROTTLE SLIDE OPENINGS



The above illustration shows which circuit in the carburetor is in operation at various throttle openings.

A01A1VQ

# CARBURETOR MAIN JETS



A01C2CQ

| MIKUNI<br>NO. | BOMBARDIER<br>NO. | MIKUNI<br>NO. | BOMBARDIER<br>NO. |
|---------------|-------------------|---------------|-------------------|
| LEAN<br>↑     |                   | LEAN<br>↑     |                   |
| #95           | 404 1328 00       | #300          | 404 1012 00       |
| #100          | 404 1320 00       | #310          | 404 1078 00       |
| #105          | 404 1321 00       | #320          | 404 1013 00       |
| #110          | 404 1241 00       | #330          | 404 1014 00       |
| #115          | 404 1240 00       | #340          | 404 1049 00       |
| #120          | 404 1239 00       | #350          | 404 1060 00       |
| #125          | 404 1248 00       | #360          | 404 1061 00       |
| #130          | 404 1249 00       | #370          | 404 1062 00       |
| #135          | 404 1304 00       | #380          | 404 1063 00       |
| #140          | 404 1266 00       | #390          | 404 1064 00       |
| #145          | 404 1305 00       | #400          | 404 1009 00       |
| #150          | 404 1209 00       | #410          | 404 1010 00       |
| #155          | 404 1287 00       | #420          | 404 1079 00       |
| #160          | 404 1182 00       | #430          | 404 1080 00       |
| #165          | 404 1193 00       | #440          | 404 1081 00       |
| #170          | 404 1238 00       | #450          | 404 1065 00       |
| #175          | 404 1192 00       | #460          | 404 1066 00       |
| #180          | 404 1122 00       | #470          | 404 1067 00       |
| #185          | 404 1195 00       | #480          | 404 1068 00       |
| #190          | 404 1190 00       | #490          | 404 1069 00       |
| #195          | 404 1194 00       | #520          | 404 1151 00       |
| #200          | 404 1123 00       | #540          | 404 1148 00       |
| #210          | 404 1191 00       | #560          | 404 1084 00       |
| #220          | 404 1112 00       | #580          | 404 1154 00       |
| #230          | 404 1189 00       | #600          | 404 1155 00       |
| #240          | 404 1002 00       | #620          | 404 1157 00       |
| #250          | 404 1003 00       | #640          | 404 1159 00       |
| #260          | 404 1006 00       | #660          | 404 1147 00       |
| #270          | 404 1004 00       | #680          | 404 1162 00       |
| #280          | 404 1005 00       | #700          | 404 1146 00       |
| #290          | 404 1011 00       |               |                   |
| ↓<br>RICH     |                   | ↓<br>RICH     |                   |

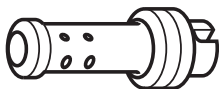
# CARBURETOR NEEDLE JETS



A01C2DQ

| MIKUNI<br>NO. |           | BOMBARDIER<br>NO. |
|---------------|-----------|-------------------|
|               | LEAN<br>↑ |                   |
| (159) N-2     |           | 404 1477 00       |
| (159) N-4     |           | 404 1473 00       |
| (159) N-6     |           | 404 1543 00       |
| (159) O-0     |           | 404 1302 00       |
| (159) O-2     |           | 404 1479 00       |
| (159) O-8     |           | 404 1169 00       |
| (159) P-0     |           | 404 1070 00       |
| (159) P-2     |           | 404 1007 00       |
| (159) P-4     |           | 404 1036 00       |
| (159) P-6     |           | 404 1106 00       |
| (159) P-8     |           | 404 1208 00       |
| (159) Q-0     |           | 404 1107 00       |
| (159) Q-2     |           | 404 1108 00       |
| (159) Q-4     |           | 404 1142 00       |
| (159) Q-8     |           | 404 1327 00       |
| (166) R-0     |           | 404 1087 00       |
| (182) O-8     |           | 404 1181 00       |
| (224) AA-0    |           | 404 1335 00       |
| (224) AA-2    |           | 404 1483 00       |
| (224) AA-3    |           | 404 1518 00       |
| (224) AA-4    |           | 404 1476 00       |
| (224) AA-5    |           | 404 1267 00       |
| (224) AA-6    |           | 404 1482 00       |
| (224) AA-7    |           | 404 1528 00       |
| (224) BB-0    |           | 404 1140 00       |
| (224) BB-5    |           | 404 1131 00       |
| (224) CC-0    |           | 404 1166 00       |
| (224) Z-5     |           | 404 1278 00       |
| (224) Z-8     |           | 404 1484 00       |
| (480) O-4     |           | 404 1521 00       |
| (480) O-6     |           | 404 1485 00       |
| (480) O-8     |           | 404 1486 00       |
| (480) P-0     |           | 404 1332 00       |
| (480) P-2     |           | 404 1312 00       |
| (480) P-4     |           | 404 1315 00       |
| (480) P-6     |           | 404 1480 00       |
| (480) Q-4     |           | 404 1491 00       |
|               | ↓<br>RICH |                   |

# CARBURETOR PILOT JET



A01C2EQ

MIKUNI  
NO.

BOMBARDIER  
NO.

LEAN

#20

404 1086 00

#25

404 1103 00

#30

404 1077 00

#35

404 1027 00

#40

404 1091 00

#45

404 1094 00

#50

404 1095 00

#55

404 1139 00

#60

404 1210 00

#75

404 1481 00

RICH

## CARBURETOR JET NEEDLE

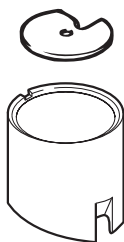


A01C2FQ

| MIKUNI<br>NO. | BOMBARDIER<br>NO. |
|---------------|-------------------|
| 6DH2          | 404 1104 00       |
| 6DH3          | 404 1269 00       |
| 6DH4          | 404 1019 00       |
| 6DH7          | 404 1113 00       |
| 6DH8          | 404 1244 00       |
| 6DHN43        | 404 1471 00       |
| 6DHN44        | 404 1472 00       |
| 6DP1          | 404 1180 00       |
| 6EJ1          | 404 1105 00       |
| 6F9           | 404 1092 00       |
| 6FJ6          | 404 1311 00       |
| 6FL14         | 404 1141 00       |
| 7DH2          | 404 1132 00       |
| 7DH3          | 404 1277 00       |
| 7DL7          | 404 1478 00       |
| 7EGO6         | 404 1472 00       |
| 7EJ5          | 404 1334 00       |
| 8DH2          | 404 1393 00       |
| 7FHO1         | 404 1333 00       |

# CARBURETOR THROTTLE SLIDE CUTAWAY

- 1 -



**WITH RETAINING PLATE**

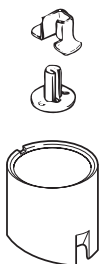
A02C0NQ

| CARBURETOR | CUTAWAY | BOMBARDIER NO. |
|------------|---------|----------------|
| VM 28      | 2.0     | 404 1183 00    |
| VM 30      | 2.0     | 404 1196 00    |
|            | 2.5     | 404 1172 00    |
|            | 3.0     | 404 1174 00 ①  |
| VM 32      | 3.0     | 404 1303 00    |
|            | 3.5     | 404 1171 00    |
| VM 34      | 2.0     | 404 1196 00    |
|            | 3.0     | 404 1174 00 ①  |
|            | 3.5     | 404 1171 00 ①  |
| TM 38      | 3.0     | 404 1377 00    |

① USE WITH PACKING P/N 404 1170 00

## CARBURETOR THROTTLE SLIDE CUTAWAY

- 2 -



**WITH CENTER RESTRAINING DEVICE**

A02C0MQ

| CARBURETOR | CUTAWAY | BOMBARDIER NO. |
|------------|---------|----------------|
| VM 30      | 2.5     | 404 1284 00    |
| VM 34      | 2.0     | 404 1286 00    |
|            | 2.5     | 404 1284 00    |
|            | 3.0     | 404 1232 00    |
| VM 38      | 2.5     | 404 1313 00    |
| VM 40      | 2.5     | 404 1134 00    |
|            | 2.5     | 404 1285 00    |
|            | 2.5     | 404 1323 00    |



| ALTITUDE | SEA<br>LEVEL | 4000 FT | 6000 FT | 8000 FT | 10,000 FT |
|----------|--------------|---------|---------|---------|-----------|
|----------|--------------|---------|---------|---------|-----------|

**CARBURETOR**

|                                  |           |           |           |           |           |
|----------------------------------|-----------|-----------|-----------|-----------|-----------|
| MAIN JET                         | 160       | 145       | 135       | 125       | 120       |
| NEEDLE JET                       | 182 O-8   | 182 O-8   | 182 O-8   | 182 O-8   | 182 O-8   |
| PILOT JET                        | 30        | 30        | 30        | 30        | 30        |
| NEEDLE                           | 6DP1      | 6DP1      | 6DP1      | 6DP1      | 6DP1      |
| NEEDLE CLIP<br>POSITION FROM TOP | 3         | 3         | 3         | 3         | 3         |
| SLIDE CUT-AWAY                   | 2.0       | 2.0       | 2.0       | 2.0       | 2.0       |
| AIR SCREW                        | 1-1/2     | 1-1/2     | 1-1/2     | 1-1/2     | 1-1/2     |
| IDLE SPEED (RPM)                 | 1100-1300 | 1100-1300 | 1100-1300 | 1100-1300 | 1100-1300 |

**DRIVE PULLEY**

|                               |      |                     |                     |                     |                     |
|-------------------------------|------|---------------------|---------------------|---------------------|---------------------|
| RETURN SPRING                 | Std  | Blue<br>414 2581 00 | Blue<br>414 2581 00 | Blue<br>414 2581 00 | Blue<br>414 2581 00 |
| CENTRIFUGAL<br>LEVER ARM      | N.A. | N.A.                | N.A.                | N.A.                | N.A.                |
| CALIBRATION<br>WASHERS OR PIN | 6    | 6                   | 5                   | 5                   | 5                   |
| GOVERNOR CUP<br>OR RAMP       | Std  | Std                 | Std                 | Std                 | Std                 |
| CALIBRATION<br>SCREW POSITION | N.A. | N.A.                | N.A.                | N.A.                | N.A.                |

**DRIVEN PULLEY**

|                      |          |           |           |           |           |
|----------------------|----------|-----------|-----------|-----------|-----------|
| SPRING PRELOAD       | 8 lb ± 2 | 10 lb ± 2 | 10 lb ± 2 | 10 lb ± 2 | 10 lb ± 2 |
| CAM                  | Std      | Std       | Std       | Std       | Std       |
| CHAINCASE<br>GEARING | 10/25    | 10/25     | 10/25     | 10/25     | 10/25     |

**SPECIAL SET-UP NOTES :**

High altitude kit available (P/N 861 7345 00).

## MAIN JET CHART

| <div style="display: flex; align-items: center; justify-content: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TEMPERATURE</div> <div style="text-align: right; padding-right: 10px;">°C<br/>(°F)</div> </div> | MAIN JET       |                |             |              |           |            |            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|-------------|--------------|-----------|------------|------------|
|                                                                                                                                                                                                                                               | - 40<br>(- 40) | - 30<br>(- 20) | - 20<br>(0) | - 10<br>(14) | 0<br>(32) | 10<br>(50) | 20<br>(70) |
| ALTITUDE<br>METERS (FEET)                                                                                                                                                                                                                     |                |                |             |              |           |            |            |
| 0<br>Sea level                                                                                                                                                                                                                                | 170            | 165            | <b>160</b>  | 155          | 150       | 145        | 140        |
| 1200<br>(4000)                                                                                                                                                                                                                                | 155            | 150            | <b>145</b>  | 140          | 135       | 130        | 125        |
| 1800<br>(6000)                                                                                                                                                                                                                                | 145            | 140            | <b>135</b>  | 130          | 125       | 120        | 115        |
| 2400<br>(8000)                                                                                                                                                                                                                                | 140            | 130            | <b>125</b>  | 120          | 115       | 110        | 105        |
| 3000<br>(10000)                                                                                                                                                                                                                               | 130            | 125            | <b>120</b>  | 115          | 110       | 105        | 100        |

 **CAUTION :** These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

| ALTITUDE | SEA<br>LEVEL | 4000 FT | 6000 FT | 8000 FT | 10,000 FT |
|----------|--------------|---------|---------|---------|-----------|
|----------|--------------|---------|---------|---------|-----------|

**CARBURETOR**

|                                  |           |           |           |           |           |
|----------------------------------|-----------|-----------|-----------|-----------|-----------|
| MAIN JET                         | 190       | 175       | 140       | 130       | 125       |
| NEEDLE JET                       | 159 O-8   | 159 O-8   | 159 O-8   | 159 O-8   | 159 O-8   |
| PILOT JET                        | 40        | 40        | 35        | 35        | 35        |
| NEEDLE                           | 6DH4      | 6DH4      | 6DH4      | 6DH4      | 6DH4      |
| NEEDLE CLIP<br>POSITION FROM TOP | 2         | 2         | 2         | 2         | 2         |
| SLIDE CUT-AWAY                   | 2.5       | 2.5       | 2.5       | 2.5       | 2.5       |
| AIR SCREW                        | 1         | 1         | 1         | 1         | 1         |
| IDLE SPEED (RPM)                 | 1100-1300 | 1100-1300 | 1100-1300 | 1100-1300 | 1100-1300 |

**DRIVE PULLEY**

|                               |                       |                       |                       |                       |                       |
|-------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| RETURN SPRING                 | Purple<br>414 2610 00 | Purple<br>414 2610 00 | Purple<br>414 2610 00 | Purple<br>414 2610 00 | Purple<br>414 2610 00 |
| CENTRIFUGAL<br>LEVER ARM      | B1KSH<br>504 0884 00  | A3SH<br>860 4166 00   | A3SH<br>860 4166 00   | A3SH<br>860 4166 00   | A3SH<br>860 4166 00   |
| CALIBRATION<br>WASHERS OR PIN | Std                   | Std                   | Std                   | Std                   | Std                   |
| GOVERNOR CUP<br>OR RAMP       | N.A.                  | N.A.                  | N.A.                  | N.A.                  | N.A.                  |
| CALIBRATION<br>SCREW POSITION | N.A.                  | N.A.                  | N.A.                  | N.A.                  | N.A.                  |

**DRIVEN PULLEY**

|                      |              |               |               |               |               |
|----------------------|--------------|---------------|---------------|---------------|---------------|
| SPRING PRELOAD       | 8 lb $\pm$ 2 | 13 lb $\pm$ 1 | 13 lb $\pm$ 1 | 13 lb $\pm$ 1 | 13 lb $\pm$ 1 |
| CAM                  | Std          | Std           | Std           | Std           | Std           |
| CHAINCASE<br>GEARING | 14/25        | 14/25         | 14/25         | 14/25         | 14/25         |

**SPECIAL SET-UP NOTES :**

High altitude kit available (P/N 861 7374 00).

## MAIN JET CHART

| <div>TEMPERATURE</div> <div>°C<br/>(°F)</div> <div>ALTITUDE<br/>METERS (FEET)</div> | MAIN JET       |                |             |              |           |            |            |
|-------------------------------------------------------------------------------------|----------------|----------------|-------------|--------------|-----------|------------|------------|
|                                                                                     | − 40<br>(− 40) | − 30<br>(− 20) | − 20<br>(0) | − 10<br>(14) | 0<br>(32) | 10<br>(50) | 20<br>(70) |
| 0<br>Sea level                                                                      | 210            | 200            | 190         | 185          | 180       | 170        | 165        |
| 1200<br>(4000)                                                                      | 190            | 180            | 175         | 170          | 165       | 155        | 150        |
| 1800<br>(6000)                                                                      | 150            | 145            | 140         | 135          | 130       | 125        | 120        |
| 2400<br>(8000)                                                                      | 145            | 135            | 130         | 125          | 120       | 115        | 110        |
| 3000<br>(10000)                                                                     | 135            | 130            | 125         | 120          | 115       | 110        | 105        |

 **CAUTION :** These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

| ALTITUDE | SEA LEVEL | 4000 FT | 6000 FT | 8000 FT | 10,000 FT |
|----------|-----------|---------|---------|---------|-----------|
|----------|-----------|---------|---------|---------|-----------|

**CARBURETOR**

|                                  |           |           |           |           |           |
|----------------------------------|-----------|-----------|-----------|-----------|-----------|
| MAIN JET                         | 200       | 180       | 170       | 160       | 145       |
| NEEDLE JET                       | 159 P-0   | 159 P-0   | 159 P-0   | 159 P-0   | 159 P-0   |
| PILOT JET                        | 40        | 40        | 40        | 40        | 40        |
| NEEDLE                           | 6DH3      | 6DH3      | 6DH3      | 6DH3      | 6DH3      |
| NEEDLE CLIP<br>POSITION FROM TOP | 2         | 2         | 2         | 2         | 2         |
| SLIDE CUTAWAY                    | 2.5       | 2.5       | 2.5       | 2.5       | 2.5       |
| AIR SCREW                        | 1 1/2     | 1 1/2     | 1 1/2     | 1 1/2     | 1 1/2     |
| IDLE SPEED (RPM)                 | 1800-2000 | 1800-2000 | 1800-2000 | 1800-2000 | 1800-2000 |

**DRIVE PULLEY**

|                               |                        |                          |                          |                          |                          |
|-------------------------------|------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| RETURN SPRING                 | Red-Red<br>420 4380 99 | Red-Green<br>414 6892 00 | Red-Green<br>414 6892 00 | Red-Green<br>414 6892 00 | Red-Green<br>414 6892 00 |
| CENTRIFUGAL<br>LEVER ARM      | Std                    | Std                      | Std                      | Std                      | Std                      |
| CALIBRATION<br>WASHERS OR PIN | Std                    | Std                      | Std                      | Std                      | Std                      |
| GOVERNOR CUP<br>OR RAMP       | 223<br>420 4802 23     | 223<br>420 4802 23       | 223<br>420 4802 23       | 223<br>420 4802 23       | 223<br>420 4802 23       |
| CALIBRATION<br>SCREW POSITION | 4                      | 4                        | 4                        | 4                        | 4                        |

**DRIVEN PULLEY**

|                      |           |           |           |           |           |
|----------------------|-----------|-----------|-----------|-----------|-----------|
| SPRING PRELOAD       | 17 lb ± 2 | 17 lb ± 2 | 17 lb ± 2 | 17 lb ± 2 | 17 lb ± 2 |
| CAM                  | Std       | Std       | Std       | Std       | Std       |
| CHAINCASE<br>GEARING | 17/46     | 17/46     | 17/46     | 17/46     | 17/46     |

**SPECIAL SET-UP NOTES :**

High altitude kit available (P/N 861 7253 00).

This vehicle is equipped with a "TRA" type clutch.

## MAIN JET CHART

| <div style="display: flex; align-items: center; justify-content: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TEMPERATURE</div> <div style="text-align: right; padding-right: 10px;">°C<br/>(°F)</div> </div> | MAIN JET       |                |             |              |           |            |            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|-------------|--------------|-----------|------------|------------|
|                                                                                                                                                                                                                                               | - 40<br>(- 40) | - 30<br>(- 20) | - 20<br>(0) | - 10<br>(14) | 0<br>(32) | 10<br>(50) | 20<br>(70) |
| ALTITUDE<br>METERS (FEET)                                                                                                                                                                                                                     |                |                |             |              |           |            |            |
| 0<br>Sea level                                                                                                                                                                                                                                | 220            | 210            | <b>200</b>  | 195          | 190       | 180        | 175        |
| 1200<br>(4000)                                                                                                                                                                                                                                | 195            | 185            | <b>180</b>  | 175          | 170       | 165        | 155        |
| 1800<br>(6000)                                                                                                                                                                                                                                | 180            | 175            | <b>170</b>  | 165          | 160       | 155        | 150        |
| 2400<br>(8000)                                                                                                                                                                                                                                | 170            | 165            | <b>160</b>  | 155          | 150       | 145        | 140        |
| 3000<br>(10000)                                                                                                                                                                                                                               | 155            | 150            | <b>145</b>  | 140          | 135       | 130        | 125        |

 **CAUTION :** These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

MODEL 3670/3671/3673/3674  
**SAFARI L/DL,**  
**SKANDIC II 377/377 R**

**1993**

| ALTITUDE | SEA<br>LEVEL | 4000 FT | 6000 FT | 8000 FT | 10,000 FT |
|----------|--------------|---------|---------|---------|-----------|
|----------|--------------|---------|---------|---------|-----------|

**CARBURETOR**

|                                  |                    |                    |                    |                    |                    |
|----------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| MAIN JET                         | PTO 140<br>MAG 140 | PTO 130<br>MAG 130 | PTO 125<br>MAG 125 | PTO 115<br>MAG 115 | PTO 110<br>MAG 110 |
| NEEDLE JET                       | 159 O-8            | 159 O-8            | 159 O-8            | 159 O-8            | 159 O-8            |
| PILOT JET                        | 35                 | 35                 | 35                 | 35                 | 35                 |
| NEEDLE                           | 6DH7               | 6DH7               | 6DH7               | 6DH7               | 6DH7               |
| NEEDLE CLIP<br>POSITION FROM TOP | 3                  | 3                  | 2                  | 2                  | 2                  |
| SLIDE CUT-AWAY                   | 2.5                | 2.5                | 2.5                | 2.5                | 2.5                |
| AIR SCREW                        | 1                  | 1                  | 1                  | 1                  | 1                  |
| IDLE SPEED (RPM)                 | 1800-2000          | 1800-2000          | 1800-2000          | 1800-2000          | 1800-2000          |

**DRIVE PULLEY**

|                               |                          |                       |                       |                       |                       |
|-------------------------------|--------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| RETURN SPRING                 | Red-Green<br>420 4380 94 | Yellow<br>414 6055 00 | Yellow<br>414 6055 00 | Yellow<br>414 6055 00 | Yellow<br>414 6055 00 |
| CENTRIFUGAL<br>LEVER ARM      | Std                      | Std                   | Std                   | Std                   | Std                   |
| CALIBRATION<br>WASHERS OR PIN | Std                      | Std                   | Std                   | Std                   | Std                   |
| GOVERNOR CUP<br>OR RAMP       | 227<br>420 4802 27       | 227<br>420 4802 27    | 227<br>420 4802 27    | 227<br>420 4802 27    | 227<br>420 4802 27    |
| CALIBRATION<br>SCREW POSITION | 4                        | 5                     | 5                     | 5                     | 5                     |

**DRIVEN PULLEY**

|                      |          |           |           |           |           |
|----------------------|----------|-----------|-----------|-----------|-----------|
| SPRING PRELOAD       | 8 lb ± 2 | 12 lb ± 2 | 12 lb ± 2 | 12 lb ± 2 | 12 lb ± 2 |
| CAM                  | Std      | Std       | Std       | Std       | Std       |
| CHAINCASE<br>GEARING | 20/44    | 20/44     | 20/44     | 20/44     | 20/44     |

**SPECIAL SET-UP NOTES :**

High altitude kit available (P/N 861 7362 00).

This vehicle is equipped with a "TRA" type clutch.

For optimum performance starting at 4000 ft, a 18-th sprocket (P/N 504 0701 00) with a 94-link chain (P/N 412 1065 00) may be installed.

# MAIN JET CHART

| <div> <div>TEMPERATURE</div> <div>°C<br/>(°F)</div> <div>ALTITUDE<br/>METERS (FEET)</div> </div> |     | MAIN JET       |                |             |              |           |            |            |
|--------------------------------------------------------------------------------------------------|-----|----------------|----------------|-------------|--------------|-----------|------------|------------|
|                                                                                                  |     | - 40<br>(- 40) | - 30<br>(- 20) | - 20<br>(0) | - 10<br>(14) | 0<br>(32) | 10<br>(50) | 20<br>(70) |
| 0<br>Sea level                                                                                   | PTO | 150            | 145            | <b>140</b>  | 135          | 130       | 125        | 120        |
|                                                                                                  | MAG | 150            | 145            | <b>140</b>  | 135          | 130       | 125        | 120        |
| 1200<br>(4000)                                                                                   | PTO | 140            | 135            | <b>130</b>  | 125          | 120       | 115        | 110        |
|                                                                                                  | MAG | 140            | 135            | <b>130</b>  | 125          | 120       | 115        | 110        |
| 1800<br>(6000)                                                                                   | PTO | 135            | 130            | <b>125</b>  | 120          | 115       | 110        | 105        |
|                                                                                                  | MAG | 135            | 130            | <b>125</b>  | 120          | 115       | 110        | 105        |
| 2400<br>(8000)                                                                                   | PTO | 125            | 120            | <b>115</b>  | 110          | 105       | 100        | 95         |
|                                                                                                  | MAG | 125            | 120            | <b>115</b>  | 110          | 105       | 100        | 95         |
| 3000<br>(10000)                                                                                  | PTO | 120            | 115            | <b>110</b>  | 105          | 100       | 95         | 90         |
|                                                                                                  | MAG | 120            | 115            | <b>110</b>  | 105          | 100       | 95         | 90         |

 **CAUTION :** These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

MODEL 3672  
**SAFARI RALLY**

**1993**

| ALTITUDE | SEA LEVEL | 4000 FT | 6000 FT | 8000 FT | 10,000 FT |
|----------|-----------|---------|---------|---------|-----------|
|----------|-----------|---------|---------|---------|-----------|

**CARBURETOR**

| MAIN JET                         | PTO 190<br>MAG 180 | PTO 170<br>MAG 160 | PTO 140<br>MAG 145 | PTO 130<br>MAG 135 | PTO 120<br>MAG 125 |
|----------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| NEEDLE JET                       | 159 P-2            | 159 P-2            | 159 P-2            | 159 P-2            | 159 P-2            |
| PILOT JET                        | 30                 | 30                 | 35                 | 35                 | 35                 |
| NEEDLE                           | 6DH2               | 6DH2               | 6DH2               | 6DH2               | 6DH2               |
| NEEDLE CLIP<br>POSITION FROM TOP | 3                  | 3                  | 3                  | 3                  | 3                  |
| SLIDE CUT-AWAY                   | 2.5                | 2.5                | 2.5                | 2.5                | 2.5                |
| AIR SCREW                        | 1                  | 1                  | 1                  | 1                  | 1                  |
| IDLE SPEED (RPM)                 | 1800-2000          | 1800-2000          | 1800-2000          | 1800-2000          | 1800-2000          |

**DRIVE PULLEY**

| RETURN SPRING                 | Yellow-Yellow<br>414 7486 00 | Blue-Blue<br>414 6894 00 | Blue-Blue<br>414 6894 00 | Blue-Blue<br>414 6894 00 | Blue-Blue<br>414 6894 00 |
|-------------------------------|------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| CENTRIFUGAL<br>LEVER ARM      | Std                          | Std                      | Std                      | Std                      | Std                      |
| CALIBRATION<br>WASHERS OR PIN | Std                          | Std                      | Std                      | Std                      | Std                      |
| GOVERNOR CUP<br>OR RAMP       | 226<br>420 4802 26           | 227<br>420 4802 27       | 227<br>420 4802 27       | 227<br>420 4802 27       | 227<br>420 4802 27       |
| CALIBRATION<br>SCREW POSITION | 3                            | 3                        | 3                        | 3                        | 3                        |

**DRIVEN PULLEY**

| SPRING PRELOAD       | 8 lb ± 2 | 11 lb ± 1 | 11 lb ± 1 | 11 lb ± 1 | 11 lb ± 1 |
|----------------------|----------|-----------|-----------|-----------|-----------|
| CAM                  | Std      | Std       | Std       | Std       | Std       |
| CHAINCASE<br>GEARING | 21/44    | 21/44     | 21/44     | 21/44     | 21/44     |

**SPECIAL SET-UP NOTES :**

High altitude kit available (P/N 861 7373 00).

This vehicle is equipped with a "TRA" type clutch.

## MAIN JET CHART

| <div style="display: flex; align-items: center; justify-content: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TEMPERATURE</div> <div style="text-align: right; padding-right: 10px;">°C<br/>(°F)</div> </div> |     | MAIN JET       |                |             |              |           |            |            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----------------|----------------|-------------|--------------|-----------|------------|------------|
|                                                                                                                                                                                                                                               |     | − 40<br>(− 40) | − 30<br>(− 20) | − 20<br>(0) | − 10<br>(14) | 0<br>(32) | 10<br>(50) | 20<br>(70) |
| ALTITUDE<br>METERS (FEET)                                                                                                                                                                                                                     |     |                |                |             |              |           |            |            |
|                                                                                                                                                                                                                                               |     |                |                |             |              |           |            |            |
| 0<br>Sea level                                                                                                                                                                                                                                | PTO | 210            | 200            | <b>190</b>  | 180          | 175       | 170        | 165        |
|                                                                                                                                                                                                                                               | MAG | 200            | 190            | <b>180</b>  | 170          | 165       | 160        | 155        |
| 1200<br>(4000)                                                                                                                                                                                                                                | PTO | 185            | 175            | <b>170</b>  | 165          | 160       | 150        | 145        |
|                                                                                                                                                                                                                                               | MAG | 175            | 165            | <b>160</b>  | 155          | 150       | 140        | 135        |
| 1800<br>(6000)                                                                                                                                                                                                                                | PTO | 175            | 170            | <b>165</b>  | 160          | 155       | 150        | 145        |
|                                                                                                                                                                                                                                               | MAG | 165            | 160            | <b>155</b>  | 150          | 145       | 140        | 135        |
| 2400<br>(8000)                                                                                                                                                                                                                                | PTO | 165            | 160            | <b>155</b>  | 150          | 145       | 140        | 135        |
|                                                                                                                                                                                                                                               | MAG | 155            | 150            | <b>145</b>  | 140          | 135       | 130        | 125        |
| 3000<br>(10000)                                                                                                                                                                                                                               | PTO | 155            | 150            | <b>145</b>  | 140          | 135       | 130        | 125        |
|                                                                                                                                                                                                                                               | MAG | 145            | 140            | <b>135</b>  | 130          | 125       | 120        | 115        |

 **CAUTION :** These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

MODEL 3675  
**SKANDIC II 503 R**

**1993**

| ALTITUDE | SEA LEVEL | 4000 FT | 6000 FT | 8000 FT | 10,000 FT |
|----------|-----------|---------|---------|---------|-----------|
|----------|-----------|---------|---------|---------|-----------|

**CARBURETOR**

|                                  |                    |                    |                    |                    |                    |
|----------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| MAIN JET                         | PTO 190<br>MAG 180 | PTO 170<br>MAG 160 | PTO 140<br>MAG 145 | PTO 130<br>MAG 135 | PTO 120<br>MAG 125 |
| NEEDLE JET                       | 159 P-2            | 159 P-2            | 159 P-2            | 159 P-2            | 159 P-2            |
| PILOT JET                        | 30                 | 30                 | 35                 | 35                 | 35                 |
| NEEDLE                           | 6DH2               | 6DH2               | 6DH2               | 6DH2               | 6DH2               |
| NEEDLE CLIP<br>POSITION FROM TOP | 3                  | 3                  | 3                  | 3                  | 3                  |
| SLIDE CUT-AWAY                   | 2.5                | 2.5                | 2.5                | 2.5                | 2.5                |
| AIR SCREW                        | 1                  | 1                  | 1                  | 1                  | 1                  |
| IDLE SPEED (RPM)                 | 1800-2000          | 1800-2000          | 1800-2000          | 1800-2000          | 1800-2000          |

**DRIVE PULLEY**

|                               |                            |                          |                          |                          |                          |
|-------------------------------|----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| RETURN SPRING                 | Blue-Yellow<br>414 6895 00 | Blue-Blue<br>414 6894 00 | Blue-Blue<br>414 6894 00 | Blue-Blue<br>414 6894 00 | Blue-Blue<br>414 6894 00 |
| CENTRIFUGAL<br>LEVER ARM      | Std                        | Std                      | Std                      | Std                      | Std                      |
| CALIBRATION<br>WASHERS OR PIN | Std                        | Std                      | Std                      | Std                      | Std                      |
| GOVERNOR CUP<br>OR RAMP       | 226<br>420 4802 26         | 227<br>420 4802 27       | 227<br>420 4802 27       | 227<br>420 4802 27       | 227<br>420 4802 27       |
| CALIBRATION<br>SCREW POSITION | 3                          | 3                        | 3                        | 3                        | 3                        |

**DRIVEN PULLEY**

|                      |          |           |           |           |           |
|----------------------|----------|-----------|-----------|-----------|-----------|
| SPRING PRELOAD       | 8 lb ± 2 | 11 lb ± 1 | 11 lb ± 1 | 11 lb ± 1 | 11 lb ± 1 |
| CAM                  | Std      | Std       | Std       | Std       | Std       |
| CHAINCASE<br>GEARING | 21/44    | 21/44     | 21/44     | 21/44     | 21/44     |

**SPECIAL SET-UP NOTES :**

High altitude kit available (P/N 861 7373 00).

This vehicle is equipped with a "TRA" type clutch.

## MAIN JET CHART

| <div style="display: flex; align-items: center; justify-content: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TEMPERATURE</div> <div style="text-align: right; padding-right: 10px;">°C<br/>(°F)</div> </div> |                | MAIN JET       |                |             |              |           |            |            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|----------------|-------------|--------------|-----------|------------|------------|
|                                                                                                                                                                                                                                               |                | − 40<br>(− 40) | − 30<br>(− 20) | − 20<br>(0) | − 10<br>(14) | 0<br>(32) | 10<br>(50) | 20<br>(70) |
| ALTITUDE<br>METERS (FEET)                                                                                                                                                                                                                     | 0<br>Sea level | PTO 210        | 200            | <b>190</b>  | 180          | 175       | 170        | 165        |
|                                                                                                                                                                                                                                               | MAG            | 200            | 190            | <b>180</b>  | 170          | 165       | 160        | 155        |
| 1200<br>(4000)                                                                                                                                                                                                                                | PTO            | 185            | 175            | <b>170</b>  | 165          | 160       | 150        | 145        |
|                                                                                                                                                                                                                                               | MAG            | 175            | 165            | <b>160</b>  | 155          | 150       | 140        | 135        |
| 1800<br>(6000)                                                                                                                                                                                                                                | PTO            | 175            | 170            | <b>165</b>  | 160          | 155       | 150        | 145        |
|                                                                                                                                                                                                                                               | MAG            | 165            | 160            | <b>155</b>  | 150          | 145       | 140        | 135        |
| 2400<br>(8000)                                                                                                                                                                                                                                | PTO            | 165            | 160            | <b>155</b>  | 150          | 145       | 140        | 135        |
|                                                                                                                                                                                                                                               | MAG            | 155            | 150            | <b>145</b>  | 140          | 135       | 130        | 125        |
| 3000<br>(10000)                                                                                                                                                                                                                               | PTO            | 155            | 160            | <b>145</b>  | 140          | 135       | 130        | 125        |
|                                                                                                                                                                                                                                               | MAG            | 145            | 140            | <b>135</b>  | 130          | 125       | 120        | 115        |

 **CAUTION :** These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

MODEL 3676  
**SKANDIC II 503 R SLT**

**1993**

| ALTITUDE | SEA<br>LEVEL | 4000 FT | 6000 FT | 8000 FT | 10,000 FT |
|----------|--------------|---------|---------|---------|-----------|
|----------|--------------|---------|---------|---------|-----------|

**CARBURETOR**

|                                  |                    |                    |                    |                    |                    |
|----------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| MAIN JET                         | PTO 190<br>MAG 180 | PTO 170<br>MAG 160 | PTO 140<br>MAG 145 | PTO 130<br>MAG 135 | PTO 120<br>MAG 125 |
| NEEDLE JET                       | 159 P-2            | 159 P-2            | 159 P-2            | 159 P-2            | 159 P-2            |
| PILOT JET                        | 30                 | 30                 | 35                 | 35                 | 35                 |
| NEEDLE                           | 6DH2               | 6DH2               | 6DH2               | 6DH2               | 6DH2               |
| NEEDLE CLIP<br>POSITION FROM TOP | 3                  | 3                  | 3                  | 3                  | 3                  |
| SLIDE CUT-AWAY                   | 2.5                | 2.5                | 2.5                | 2.5                | 2.5                |
| AIR SCREW                        | 1                  | 1                  | 1                  | 1                  | 1                  |
| IDLE SPEED (RPM)                 | 1800-2000          | 1800-2000          | 1800-2000          | 1800-2000          | 1800-2000          |

**DRIVE PULLEY**

|                               |                           |                          |                          |                          |                          |
|-------------------------------|---------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| RETURN SPRING                 | Blue-Green<br>420 4381 35 | Blue-Blue<br>414 6894 00 | Blue-Blue<br>414 6894 00 | Blue-Blue<br>414 6894 00 | Blue-Blue<br>414 6894 00 |
| CENTRIFUGAL<br>LEVER ARM      | Std                       | Std                      | Std                      | Std                      | Std                      |
| CALIBRATION<br>WASHERS OR PIN | Std                       | Std                      | Std                      | Std                      | Std                      |
| GOVERNOR CUP<br>OR RAMP       | 226<br>420 4802 26        | 227<br>420 4802 27       | 227<br>420 4802 27       | 227<br>420 4802 27       | 227<br>420 4802 27       |
| CALIBRATION<br>SCREW POSITION | 3                         | 2                        | 2                        | 2                        | 2                        |

**DRIVEN PULLEY**

|                      |              |               |               |               |               |
|----------------------|--------------|---------------|---------------|---------------|---------------|
| SPRING PRELOAD       | 8 lb $\pm$ 2 | 11 lb $\pm$ 1 | 11 lb $\pm$ 1 | 11 lb $\pm$ 1 | 11 lb $\pm$ 1 |
| CAM                  | Std          | Std           | Std           | Std           | Std           |
| CHAINCASE<br>GEARING | 20/44        | 20/44         | 20/44         | 20/44         | 20/44         |

**SPECIAL SET-UP NOTES :**

High altitude kit available (P/N 861 7373 00).

This vehicle is equipped with a "TRA" type clutch.

## MAIN JET CHART

| TEMPERATURE<br><br><br><br><br><br><br><br><br><br>°C<br>(°F) |     | MAIN JET       |                |             |              |           |            |            |
|---------------------------------------------------------------|-----|----------------|----------------|-------------|--------------|-----------|------------|------------|
|                                                               |     | − 40<br>(− 40) | − 30<br>(− 20) | − 20<br>(0) | − 10<br>(14) | 0<br>(32) | 10<br>(50) | 20<br>(70) |
| ALTITUDE<br>METERS (FEET)                                     |     |                |                |             |              |           |            |            |
| 0<br>Sea level                                                | PTO | 210            | 200            | 190         | 180          | 175       | 170        | 165        |
|                                                               | MAG | 200            | 190            | 180         | 170          | 165       | 160        | 155        |
| 1200<br>(4000)                                                | PTO | 185            | 175            | 170         | 165          | 160       | 150        | 145        |
|                                                               | MAG | 175            | 165            | 160         | 155          | 150       | 140        | 135        |
| 1800<br>(6000)                                                | PTO | 175            | 170            | 165         | 160          | 155       | 150        | 145        |
|                                                               | MAG | 165            | 160            | 155         | 150          | 145       | 140        | 135        |
| 2400<br>(8000)                                                | PTO | 165            | 160            | 155         | 150          | 145       | 140        | 135        |
|                                                               | MAG | 155            | 150            | 145         | 140          | 135       | 130        | 125        |
| 3000<br>(10000)                                               | PTO | 155            | 160            | 145         | 140          | 135       | 130        | 125        |
|                                                               | MAG | 145            | 140            | 135         | 130          | 125       | 120        | 115        |

 **CAUTION :** These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

MODEL 3796  
**FORMULA GRAND TOURING**

**1993**

| ALTITUDE | SEA LEVEL | 4000 FT | 6000 FT | 8000 FT | 10,000 FT |
|----------|-----------|---------|---------|---------|-----------|
|----------|-----------|---------|---------|---------|-----------|

**CARBURETOR**

|                                  |                        |                        |                    |                    |                    |
|----------------------------------|------------------------|------------------------|--------------------|--------------------|--------------------|
| MAIN JET                         | PTO 380<br>MAG 400     | PTO 340<br>MAG 360     | PTO 350<br>MAG 350 | PTO 330<br>MAG 330 | PTO 310<br>MAG 310 |
| NEEDLE JET                       | 480 P-4                | 480 P-4                | 480 P-4            | 480 P-4            | 480 P-4            |
| PILOT JET                        | 35                     | 35                     | 35                 | 35                 | 35                 |
| NEEDLE                           | 6DH8                   | 6DH8                   | 6DH8               | 6DH8               | 6DH8               |
| NEEDLE CLIP<br>POSITION FROM TOP | 2                      | 2                      | 2                  | 2                  | 2                  |
| SLIDE CUT-AWAY                   | 2.5                    | 2.5                    | 2.5                | 2.5                | 2.5                |
| AIR SCREW                        | PTO 1-1/2<br>MAG 1-1/2 | PTO 1-1/2<br>MAG 1-1/2 | PTO 1<br>MAG 1     | PTO 1<br>MAG 1     | PTO 1<br>MAG 1     |
| IDLE SPEED (RPM)                 | 1800-2000              | 1800-2000              | 1800-2000          | 1800-2000          | 1800-2000          |

**DRIVE PULLEY**

|                               |                            |                            |                            |                            |                            |
|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| RETURN SPRING                 | Blue-Orange<br>414 6390 00 | Blue-Orange<br>414 6390 00 | Blue-Orange<br>414 6390 00 | Blue-Orange<br>414 6390 00 | Blue-Orange<br>414 6390 00 |
| CENTRIFUGAL<br>LEVER ARM      | Std                        | Std                        | Std                        | Std                        | Std                        |
| CALIBRATION<br>WASHERS OR PIN | Std                        | Std                        | Std                        | Std                        | Std                        |
| GOVERNOR CUP<br>OR RAMP       | 228<br>420 4802 28         | 228<br>420 4802 28         | 228<br>420 4802 28         | 228<br>420 4802 28         | 228<br>420 4802 28         |
| CALIBRATION<br>SCREW POSITION | 2                          | 3                          | 3                          | 3                          | 3                          |

**DRIVEN PULLEY**

|                      |                    |                    |                    |                    |                    |
|----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| SPRING PRELOAD       | 10.5 lb ± 1.5      | 12 lb ± 1          | 12 lb ± 1          | 12 lb ± 1          | 12 lb ± 1          |
| CAM                  | 44°<br>504 1348 00 | 36°<br>504 1355 00 | 36°<br>504 1355 00 | 36°<br>504 1355 00 | 36°<br>504 1355 00 |
| CHAINCASE<br>GEARING | 25/44              | 23/44              | 23/44              | 23/44              | 23/44              |

**SPECIAL SET-UP NOTES :**

High altitude kit available (P/N 861 7388 00).

This vehicle is equipped with a "TRA" type clutch.

Use 72-link drive chain (P/N 412 1067 00) (large) supplied in kit.

## MAIN JET CHART

| <div>TEMPERATURE</div> <div>°C<br/>(°F)</div> <div>ALTITUDE<br/>METERS (FEET)</div> |     | MAIN JET       |                |             |              |           |            |            |
|-------------------------------------------------------------------------------------|-----|----------------|----------------|-------------|--------------|-----------|------------|------------|
|                                                                                     |     | − 40<br>(− 40) | − 30<br>(− 20) | − 20<br>(0) | − 10<br>(14) | 0<br>(32) | 10<br>(50) | 20<br>(70) |
| 0<br>Sea level                                                                      | PTO | 410            | 390            | 380         | 370          | 360       | 350        | 330        |
|                                                                                     | MAG | 430            | 410            | 400         | 390          | 380       | 370        | 350        |
| 1200<br>(4000)                                                                      | PTO | 370            | 360            | 350         | 340          | 330       | 320        | 310        |
|                                                                                     | MAG | 390            | 380            | 370         | 360          | 350       | 340        | 330        |
| 1800<br>(6000)                                                                      | PTO | 350            | 340            | 330         | 320          | 310       | 300        | 290        |
|                                                                                     | MAG | 370            | 360            | 350         | 340          | 330       | 320        | 310        |
| 2400<br>(8000)                                                                      | PTO | 330            | 320            | 310         | 300          | 290       | 280        | 270        |
|                                                                                     | MAG | 350            | 340            | 330         | 320          | 310       | 300        | 290        |
| 3000<br>(10000)                                                                     | PTO | 310            | 300            | 290         | 280          | 270       | 260        | 250        |
|                                                                                     | MAG | 330            | 320            | 310         | 300          | 290       | 280        | 270        |

 **CAUTION :** These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

MODEL 3793/3850/3794  
**FORMULA PLUS/PLUS II/PLUS E 1993**

| ALTITUDE | SEA LEVEL | 4000 FT | 6000 FT | 8000 FT | 10,000 FT |
|----------|-----------|---------|---------|---------|-----------|
|----------|-----------|---------|---------|---------|-----------|

### CARBURETOR

|                                  |                        |                        |                    |                    |                    |
|----------------------------------|------------------------|------------------------|--------------------|--------------------|--------------------|
| MAIN JET                         | PTO 380<br>MAG 400     | PTO 340<br>MAG 360     | PTO 350<br>MAG 350 | PTO 330<br>MAG 330 | PTO 310<br>MAG 310 |
| NEEDLE JET                       | 480 P-4                | 480 P-4                | 480 P-4            | 480 P-4            | 480 P-4            |
| PILOT JET                        | 35                     | 35                     | 35                 | 35                 | 35                 |
| NEEDLE                           | 6DH8                   | 6DH8                   | 6DH8               | 6DH8               | 6DH8               |
| NEEDLE CLIP<br>POSITION FROM TOP | 2                      | 2                      | 2                  | 2                  | 2                  |
| SLIDE CUT-AWAY                   | 2.5                    | 2.5                    | 2.5                | 2.5                | 2.5                |
| AIR SCREW                        | PTO 1-1/2<br>MAG 1-1/2 | PTO 1-1/2<br>MAG 1-1/2 | PTO 1<br>MAG 1     | PTO 1<br>MAG 1     | PTO 1<br>MAG 1     |
| IDLE SPEED (RPM)                 | 1800-2000              | 1800-2000              | 1800-2000          | 1800-2000          | 1800-2000          |

### DRIVE PULLEY

|                               |                            |                            |                            |                            |                            |
|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| RETURN SPRING                 | Blue-Orange<br>414 6390 00 | Blue-Orange<br>414 6390 00 | Blue-Orange<br>414 6390 00 | Blue-Orange<br>414 6390 00 | Blue-Orange<br>414 6390 00 |
| CENTRIFUGAL<br>LEVER ARM      | Std                        | Std                        | Std                        | Std                        | Std                        |
| CALIBRATION<br>WASHERS OR PIN | Std                        | Std                        | Std                        | Std                        | Std                        |
| GOVERNOR CUP<br>OR RAMP       | 228<br>420 4802 28         | 228<br>420 4802 28         | 228<br>420 4802 28         | 228<br>420 4802 28         | 228<br>420 4802 28         |
| CALIBRATION<br>SCREW POSITION | 2                          | 3                          | 3                          | 3                          | 3                          |

### DRIVEN PULLEY

|                      |                    |                    |                    |                    |                    |
|----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| SPRING PRELOAD       | 10.5 lb ± 1.5      | 12 lb ± 1          | 12 lb ± 1          | 12 lb ± 1          | 12 lb ± 1          |
| CAM                  | 44°<br>504 1348 00 | 36°<br>504 1355 00 | 36°<br>504 1355 00 | 36°<br>504 1355 00 | 36°<br>504 1355 00 |
| CHAINCASE<br>GEARING | 25/44              | 23/44              | 23/44              | 23/44              | 23/44              |

#### SPECIAL SET-UP NOTES :

High altitude kit available (P/N 861 7375 00).

This vehicle is equipped with a "TRA" type clutch.

Use 72-link drive chain (P/N 412 1055 00) supplied in kit.

## MAIN JET CHART

| <div>TEMPERATURE</div> <div>°C<br/>(°F)</div> <div>ALTITUDE<br/>METERS (FEET)</div> |     | MAIN JET       |                |             |              |           |            |            |
|-------------------------------------------------------------------------------------|-----|----------------|----------------|-------------|--------------|-----------|------------|------------|
|                                                                                     |     | − 40<br>(− 40) | − 30<br>(− 20) | − 20<br>(0) | − 10<br>(14) | 0<br>(32) | 10<br>(50) | 20<br>(70) |
| 0<br>Sea level                                                                      | PTO | 410            | 390            | 380         | 370          | 360       | 350        | 330        |
|                                                                                     | MAG | 430            | 410            | 400         | 390          | 380       | 370        | 350        |
| 1200<br>(4000)                                                                      | PTO | 370            | 360            | 350         | 340          | 330       | 320        | 310        |
|                                                                                     | MAG | 390            | 380            | 370         | 360          | 350       | 340        | 310        |
| 1800<br>(6000)                                                                      | PTO | 350            | 340            | 330         | 320          | 310       | 300        | 330        |
|                                                                                     | MAG | 370            | 360            | 350         | 340          | 330       | 320        | 290        |
| 2400<br>(8000)                                                                      | PTO | 330            | 320            | 310         | 300          | 290       | 280        | 310        |
|                                                                                     | MAG | 350            | 340            | 330         | 320          | 310       | 300        | 290        |
| 3000<br>(10000)                                                                     | PTO | 310            | 300            | 290         | 280          | 270       | 260        | 250        |
|                                                                                     | MAG | 330            | 320            | 310         | 300          | 290       | 280        | 270        |

 **CAUTION :** These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

MODEL 3795  
**FORMULA PLUS XTC**

**1993**

| ALTITUDE | SEA LEVEL | 4000 FT | 6000 FT | 8000 FT | 10,000 FT |
|----------|-----------|---------|---------|---------|-----------|
|----------|-----------|---------|---------|---------|-----------|

**CARBURETOR**

|                                  |                        |                        |                    |                    |                    |
|----------------------------------|------------------------|------------------------|--------------------|--------------------|--------------------|
| MAIN JET                         | PTO 380<br>MAG 400     | PTO 340<br>MAG 360     | PTO 350<br>MAG 350 | PTO 330<br>MAG 330 | PTO 310<br>MAG 310 |
| NEEDLE JET                       | 480 P-4                | 480 P-4                | 480 P-4            | 480 P-4            | 480 P-4            |
| PILOT JET                        | 35                     | 35                     | 35                 | 35                 | 35                 |
| NEEDLE                           | 6DH8                   | 6DH8                   | 6DH8               | 6DH8               | 6DH8               |
| NEEDLE CLIP<br>POSITION FROM TOP | 2                      | 2                      | 2                  | 2                  | 2                  |
| SLIDE CUT-AWAY                   | 2.5                    | 2.5                    | 2.5                | 2.5                | 2.5                |
| AIR SCREW                        | PTO 1-1/2<br>MAG 1-1/2 | PTO 1-1/2<br>MAG 1-1/2 | PTO 1<br>MAG 1     | PTO 1<br>MAG 1     | PTO 1<br>MAG 1     |
| IDLE SPEED (RPM)                 | 1800-2000              | 1800-2000              | 1800-2000          | 1800-2000          | 1800-2000          |

**DRIVE PULLEY**

|                               |                            |                            |                            |                            |                            |
|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| RETURN SPRING                 | Blue-Orange<br>414 6390 00 | Blue-Orange<br>414 6390 00 | Blue-Orange<br>414 6390 00 | Blue-Orange<br>414 6390 00 | Blue-Orange<br>414 6390 00 |
| CENTRIFUGAL<br>LEVER ARM      | Std                        | Std                        | Std                        | Std                        | Std                        |
| CALIBRATION<br>WASHERS OR PIN | Std                        | Std                        | Std                        | Std                        | Std                        |
| GOVERNOR CUP<br>OR RAMP       | 228<br>420 4802 28         | 228<br>420 4802 28         | 228<br>420 4802 28         | 228<br>420 4802 28         | 228<br>420 4802 28         |
| CALIBRATION<br>SCREW POSITION | 2                          | 2                          | 2                          | 2                          | 2                          |

**DRIVEN PULLEY**

|                      |                    |                    |                    |                    |                    |
|----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| SPRING PRELOAD       | 10.5 lb ± 1.5      | 12 lb ± 1          | 12 lb ± 1          | 12 lb ± 1          | 12 lb ± 1          |
| CAM                  | 44°<br>504 1348 00 | 36°<br>504 1355 00 | 36°<br>504 1355 00 | 36°<br>504 1355 00 | 36°<br>504 1355 00 |
| CHAINCASE<br>GEARING | 23/44              | 23/44              | 23/44              | 23/44              | 23/44              |

**SPECIAL SET-UP NOTES :**

High altitude kit available (P/N 861 7376 00).

This vehicle is equipped with a "TRA" type clutch.

## MAIN JET CHART

| <div style="display: flex; align-items: center; justify-content: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TEMPERATURE</div> <div style="text-align: center;"> <div>°C</div> <div>(°F)</div> </div> </div> |                | MAIN JET       |                |             |              |           |            |            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|----------------|-------------|--------------|-----------|------------|------------|
|                                                                                                                                                                                                                                               |                | - 40<br>(- 40) | - 30<br>(- 20) | - 20<br>(0) | - 10<br>(14) | 0<br>(32) | 10<br>(50) | 20<br>(70) |
| ALTITUDE<br>METERS (FEET)                                                                                                                                                                                                                     | 0<br>Sea level | PTO 410        | 390            | <b>380</b>  | 370          | 360       | 350        | 330        |
|                                                                                                                                                                                                                                               | MAG            | 430            | 410            | <b>400</b>  | 390          | 380       | 370        | 350        |
| 1200<br>(4000)                                                                                                                                                                                                                                | PTO            | 370            | 360            | <b>350</b>  | 340          | 330       | 320        | 310        |
|                                                                                                                                                                                                                                               | MAG            | 390            | 380            | <b>370</b>  | 360          | 350       | 340        | 310        |
| 1800<br>(6000)                                                                                                                                                                                                                                | PTO            | 350            | 340            | <b>330</b>  | 320          | 310       | 300        | 330        |
|                                                                                                                                                                                                                                               | MAG            | 370            | 360            | <b>350</b>  | 340          | 330       | 320        | 290        |
| 2400<br>(8000)                                                                                                                                                                                                                                | PTO            | 330            | 320            | <b>310</b>  | 300          | 290       | 280        | 310        |
|                                                                                                                                                                                                                                               | MAG            | 350            | 340            | <b>330</b>  | 320          | 310       | 300        | 290        |
| 3000<br>(10000)                                                                                                                                                                                                                               | PTO            | 310            | 300            | <b>290</b>  | 280          | 270       | 260        | 250        |
|                                                                                                                                                                                                                                               | MAG            | 330            | 320            | <b>310</b>  | 300          | 290       | 280        | 270        |

 **CAUTION :** These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

MODEL 3849  
**FORMULA PLUS X**

**1993**

| ALTITUDE | SEA LEVEL | 4000 FT | 6000 FT | 8000 FT | 10,000 FT |
|----------|-----------|---------|---------|---------|-----------|
|----------|-----------|---------|---------|---------|-----------|

**CARBURETOR**

|                                  |                    |                    |                    |                    |                    |
|----------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| MAIN JET                         | PTO 360<br>MAG 390 | PTO 320<br>MAG 350 | PTO 300<br>MAG 330 | PTO 280<br>MAG 310 | PTO 260<br>MAG 290 |
| NEEDLE JET                       | 480 P-2            | 480 P-2            | 480 P-2            | 480 P-2            | 480 P-2            |
| PILOT JET                        | 40                 | 40                 | 40                 | 40                 | 40                 |
| NEEDLE                           | 6DH8               | 6DH8               | 6DH8               | 6DH8               | 6DH8               |
| NEEDLE CLIP<br>POSITION FROM TOP | 3                  | 3                  | 2                  | 2                  | 2                  |
| SLIDE CUT-AWAY                   | 2.5                | 2.5                | 2.5                | 2.5                | 2.5                |
| AIR SCREW                        | PTO 1-1/2<br>MAG 1 | PTO 1-1/2<br>MAG 1 | PTO 3/4<br>MAG 1/2 | PTO 3/4<br>MAG 1/2 | PTO 3/4<br>MAG 1/2 |
| IDLE SPEED (RPM)                 | 1800-2000          | 1800-2000          | 1800-2000          | 1800-2000          | 1800-2000          |

**DRIVE PULLEY**

|                               |                              |                            |                            |                            |                            |
|-------------------------------|------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| RETURN SPRING                 | Purple-Purple<br>420 4381 38 | Blue-Yellow<br>414 6895 00 | Blue-Yellow<br>414 6895 00 | Blue-Yellow<br>414 6895 00 | Blue-Yellow<br>414 6895 00 |
| CENTRIFUGAL<br>LEVER ARM      | Std                          | Std                        | Std                        | Std                        | Std                        |
| CALIBRATION<br>WASHERS OR PIN | 504 2596 00<br>(solid)       | 420 4291 40<br>(hollow)    | 420 4291 40<br>(hollow)    | 420 4291 40<br>(hollow)    | 420 4291 40<br>(hollow)    |
| GOVERNOR CUP<br>OR RAMP       | 228<br>420 4802 28           | 228<br>420 4802 28         | 228<br>420 4802 28         | 228<br>420 4802 28         | 228<br>420 4802 28         |
| CALIBRATION<br>SCREW POSITION | 4                            | 4                          | 4                          | 4                          | 4                          |

**DRIVEN PULLEY**

|                      |                         |                         |                         |                         |                         |
|----------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| SPRING PRELOAD       | 12 lb $\pm \frac{0}{3}$ | 15 lb $\pm \frac{0}{3}$ | 15 lb $\pm \frac{0}{3}$ | 15 lb $\pm \frac{0}{3}$ | 15 lb $\pm \frac{0}{3}$ |
| CAM                  | 44°<br>504 1348 00      | 44°<br>504 1348 00      | 44°<br>504 1348 00      | 44°<br>504 1348 00      | 44°<br>504 1348 00      |
| CHAINCASE<br>GEARING | 25/44                   | 25/44                   | 25/44                   | 25/44                   | 25/44                   |

**SPECIAL SET-UP NOTES :**

High altitude kit available (P/N 861 7393 00).

This vehicle is equipped with a "TRA" type clutch.

For optimum performance starting at 4000 ft, a 23-th sprocket (P/N 504 0854 00) with a 72-link chain (P/N 412 1067 00) may be installed.

## MAIN JET CHART

| <div>TEMPERATURE</div> <div>°C<br/>(°F)</div> <div>ALTITUDE<br/>METERS (FEET)</div> |     | MAIN JET       |                |             |              |           |            |            |
|-------------------------------------------------------------------------------------|-----|----------------|----------------|-------------|--------------|-----------|------------|------------|
|                                                                                     |     | − 40<br>(− 40) | − 30<br>(− 20) | − 20<br>(0) | − 10<br>(14) | 0<br>(32) | 10<br>(50) | 20<br>(70) |
| 0<br>Sea level                                                                      | PTO | 390            | 370            | 360         | 350          | 340       | 330        | 310        |
|                                                                                     | MAG | 420            | 420            | 390         | 380          | 370       | 360        | 340        |
| 1200<br>(4000)                                                                      | PTO | 350            | 330            | 320         | 310          | 300       | 290        | 280        |
|                                                                                     | MAG | 380            | 360            | 350         | 340          | 330       | 320        | 310        |
| 1800<br>(6000)                                                                      | PTO | 330            | 320            | 300         | 290          | 280       | 270        | 260        |
|                                                                                     | MAG | 360            | 350            | 330         | 320          | 310       | 300        | 290        |
| 2400<br>(8000)                                                                      | PTO | 310            | 300            | 280         | 270          | 260       | 250        | 240        |
|                                                                                     | MAG | 340            | 330            | 310         | 300          | 290       | 280        | 270        |
| 3000<br>(10000)                                                                     | PTO | 290            | 280            | 260         | 250          | 240       | 230        | 220        |
|                                                                                     | MAG | 320            | 310            | 290         | 280          | 270       | 260        | 250        |

 **CAUTION :** These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

MODEL 3791/3846/3792  
**FORMULA MX/MX II/MX XTC R 1993**

| ALTITUDE | SEA LEVEL | 4000 FT | 6000 FT | 8000 FT | 10,000 FT |
|----------|-----------|---------|---------|---------|-----------|
|----------|-----------|---------|---------|---------|-----------|

### CARBURETOR

|                                  |                            |                            |                            |                            |                            |
|----------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| MAIN JET                         | PTO 230<br>MAG 240         | PTO 210<br>MAG 220         | PTO 200<br>MAG 210         | PTO 180<br>MAG 190         | PTO 170<br>MAG 180         |
| NEEDLE JET                       | PTO 159 P-6<br>MAG 159 P-4 | PTO 159 P-6<br>MAG 159 P-4 | PTO 159 P-4<br>MAG 159 P-4 | PTO 159 P-4<br>MAG 159 P-4 | PTO 159 P-4<br>MAG 159 P-4 |
| PILOT JET                        | 40                         | 40                         | 40                         | 40                         | 40                         |
| NEEDLE                           | 6DH7                       | 6DH7                       | 6DH7                       | 6DH7                       | 6DH7                       |
| NEEDLE CLIP<br>POSITION FROM TOP | 3                          | 3                          | 2                          | 2                          | 2                          |
| SLIDE CUT-AWAY                   | 2.5                        | 2.5                        | 2.5                        | 2.5                        | 2.5                        |
| AIR SCREW                        | PTO 1-1/2<br>MAG 1-1/2     | PTO 1-1/2<br>MAG 1-1/2     | PTO 1-1/2<br>MAG 1         | PTO 1-1/2<br>MAG 1         | PTO 1-1/2<br>MAG 1         |
| IDLE SPEED (RPM)                 | 1800-2000                  | 1800-2000                  | 1800-2000                  | 1800-2000                  | 1800-2000                  |

### DRIVE PULLEY

|                               |                      |                            |                            |                            |                            |
|-------------------------------|----------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| RETURN SPRING                 | White<br>414 6056 00 | Blue-Orange<br>414 6390 00 | Blue-Orange<br>414 6390 00 | Blue-Orange<br>414 6390 00 | Blue-Orange<br>414 6390 00 |
| CENTRIFUGAL<br>LEVER ARM      | Std                  | Std                        | Std                        | Std                        | Std                        |
| CALIBRATION<br>WASHERS OR PIN | Std                  | Std                        | Std                        | Std                        | Std                        |
| GOVERNOR CUP<br>OR RAMP       | 149<br>420 4801 49   | 228<br>420 4802 28         | 228<br>420 4802 28         | 228<br>420 4802 28         | 228<br>420 4802 28         |
| CALIBRATION<br>SCREW POSITION | 3                    | 4                          | 4                          | 4                          | 5                          |

### DRIVEN PULLEY

|                      |                         |                         |                         |                         |                         |
|----------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| SPRING PRELOAD       | 12 lb $\pm \frac{0}{3}$ | 15 lb $\pm \frac{0}{3}$ | 15 lb $\pm \frac{0}{3}$ | 15 lb $\pm \frac{0}{3}$ | 15 lb $\pm \frac{0}{3}$ |
| CAM                  | 36°<br>504 1355 00      | 36°<br>504 1355 00      | 36°<br>504 1355 00      | 36°<br>504 1355 00      | 36°<br>504 1355 00      |
| CHAINCASE<br>GEARING | 22/44                   | 22/44                   | 22/44                   | 22/44                   | 22/44                   |

### SPECIAL SET-UP NOTES :

High altitude kit available (P/N 861 7363 00).

This vehicle is equipped with a "TRA" type clutch.

For optimum performance starting at 4000 ft, a 20-th sprocket (P/N 504 0588 00) with a 72-link chain (P/N 412 1055 00) may be installed. Besides, windage plates of driven pulley should be removed. For reverse option, a 21-th sprocket (P/N 504 0840 00) may be installed.

## MAIN JET CHART

| <div>TEMPERATURE</div> <div>°C<br/>(°F)</div> <div>ALTITUDE<br/>METERS (FEET)</div> |     | MAIN JET     |              |            |             |           |            |            |
|-------------------------------------------------------------------------------------|-----|--------------|--------------|------------|-------------|-----------|------------|------------|
|                                                                                     |     | -40<br>(-40) | -30<br>(-20) | -20<br>(0) | -10<br>(14) | 0<br>(32) | 10<br>(50) | 20<br>(70) |
| 0<br>Sea level                                                                      | PTO | 250          | 240          | 230        | 230         | 220       | 210        | 200        |
|                                                                                     | MAG | 260          | 250          | 240        | 240         | 230       | 220        | 210        |
| 1200<br>(4000)                                                                      | PTO | 230          | 220          | 210        | 210         | 200       | 190        | 180        |
|                                                                                     | MAG | 240          | 230          | 220        | 220         | 210       | 200        | 190        |
| 1800<br>(6000)                                                                      | PTO | 220          | 210          | 200        | 200         | 190       | 180        | 175        |
|                                                                                     | MAG | 230          | 220          | 210        | 210         | 200       | 190        | 185        |
| 2400<br>(8000)                                                                      | PTO | 200          | 190          | 180        | 175         | 170       | 165        | 160        |
|                                                                                     | MAG | 210          | 200          | 190        | 185         | 180       | 175        | 165        |
| 3000<br>(10000)                                                                     | PTO | 190          | 180          | 170        | 165         | 160       | 155        | 150        |
|                                                                                     | MAG | 200          | 190          | 180        | 175         | 170       | 165        | 160        |

 **CAUTION :** These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

MODEL 3844  
**FORMULA MX Z**

**1993**

| ALTITUDE | SEA LEVEL | 4000 FT | 6000 FT | 8000 FT | 10,000 FT |
|----------|-----------|---------|---------|---------|-----------|
|----------|-----------|---------|---------|---------|-----------|

**CARBURETOR**

|                                  |                            |                            |                            |                            |                            |
|----------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| MAIN JET                         | PTO 330<br>MAG 360         | PTO 300<br>MAG 330         | PTO 280<br>MAG 310         | PTO 260<br>MAG 280         | PTO 240<br>MAG 260         |
| NEEDLE JET                       | PTO 159 P-4<br>MAG 159 P-4 | PTO 159 P-4<br>MAG 159 P-4 | PTO 159 P-2<br>MAG 159 P-2 | PTO 159 P-2<br>MAG 159 P-2 | PTO 159 P-2<br>MAG 159 P-2 |
| PILOT JET                        | 45                         | 45                         | 45                         | 45                         | 45                         |
| NEEDLE                           | 6DH4                       | 6DH4                       | 6DH4                       | 6DH4                       | 6DH4                       |
| NEEDLE CLIP<br>POSITION FROM TOP | 3                          | 3                          | 2                          | 2                          | 2                          |
| SLIDE CUT-AWAY                   | 3                          | 3                          | 3                          | 3                          | 3                          |
| AIR SCREW                        | PTO 1-1/2<br>MAG 1-1/2     | PTO 1-1/2<br>MAG 1-1/2     | PTO 1<br>MAG 1             | PTO 1<br>MAG 1             | PTO 1<br>MAG 1             |
| IDLE SPEED (RPM)                 | 1500-1700                  | 1500-1700                  | 1500-1700                  | 1500-1700                  | 1500-1700                  |

**DRIVE PULLEY**

|                               |                          |                              |                              |                              |                              |
|-------------------------------|--------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| RETURN SPRING                 | Blue-Blue<br>420 4381 36 | Purple-Purple<br>420 4381 38 | Purple-Purple<br>420 4381 38 | Purple-Purple<br>420 4381 38 | Purple-Purple<br>420 4381 38 |
| CENTRIFUGAL<br>LEVER ARM      | Std                      | Std                          | Std                          | Std                          | Std                          |
| CALIBRATION<br>WASHERS OR PIN | 420 4292 20<br>(solid)   | 420 4292 20<br>(solid)       | 420 4292 20<br>(solid)       | 420 4292 20<br>(solid)       | 420 4292 20<br>(solid)       |
| GOVERNOR CUP<br>OR RAMP       | 228<br>420 4802 28       | 227<br>420 4802 27           | 227<br>420 4802 27           | 227<br>420 4802 27           | 227<br>420 4802 27           |
| CALIBRATION<br>SCREW POSITION | 3                        | 4                            | 4                            | 4                            | 4                            |

**DRIVEN PULLEY**

|                      |                         |                         |                         |                         |                         |
|----------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| SPRING PRELOAD       | 12 lb $\pm \frac{0}{3}$ | 15 lb $\pm \frac{0}{3}$ | 15 lb $\pm \frac{0}{3}$ | 15 lb $\pm \frac{0}{3}$ | 15 lb $\pm \frac{0}{3}$ |
| CAM                  | 40°<br>504 1374 00      | 40°<br>504 1374 00      | 40°<br>504 1374 00      | 40°<br>504 1374 00      | 40°<br>504 1374 00      |
| CHAINCASE<br>GEARING | 24/44                   | 24/44                   | 24/44                   | 24/44                   | 24/44                   |

**SPECIAL SET-UP NOTES :**

High altitude kit available (P/N 861 7380 00).

This vehicle is equipped with a "TRA" type clutch.

For optimum performance starting at 4000 ft, a 22-th sprocket (P/N 504 0560 00) may be installed. For reverse option, a 23-th sprocket (P/N 504 0784 00) with a 72-link chain (P/N 412 1055 00) may be installed.

## MAIN JET CHART

| <div>TEMPERATURE</div> <div>°C<br/>(°F)</div> <div>ALTITUDE<br/>METERS (FEET)</div> |     | MAIN JET       |                |             |              |           |            |            |
|-------------------------------------------------------------------------------------|-----|----------------|----------------|-------------|--------------|-----------|------------|------------|
|                                                                                     |     | - 40<br>(- 40) | - 30<br>(- 20) | - 20<br>(0) | - 10<br>(14) | 0<br>(32) | 10<br>(50) | 20<br>(70) |
| 0<br>Sea level                                                                      | PTO | 350            | 340            | 330         | 320          | 310       | 300        | 290        |
|                                                                                     | MAG | 380            | 370            | 360         | 350          | 340       | 330        | 320        |
| 1200<br>(4000)                                                                      | PTO | 320            | 310            | 300         | 290          | 280       | 260        | 250        |
|                                                                                     | MAG | 350            | 340            | 330         | 320          | 310       | 290        | 280        |
| 1800<br>(6000)                                                                      | PTO | 300            | 290            | 280         | 270          | 260       | 250        | 230        |
|                                                                                     | MAG | 330            | 320            | 310         | 300          | 290       | 280        | 260        |
| 2400<br>(8000)                                                                      | PTO | 290            | 270            | 260         | 250          | 240       | 230        | 220        |
|                                                                                     | MAG | 310            | 300            | 290         | 280          | 270       | 260        | 250        |
| 3000<br>(10000)                                                                     | PTO | 270            | 250            | 240         | 230          | 220       | 210        | 200        |
|                                                                                     | MAG | 290            | 280            | 270         | 260          | 250       | 240        | 230        |

 **CAUTION :** These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

MODEL 3797/3852  
**FORMULA MACH 1/MACH 1 II 1993**

| ALTITUDE | SEA LEVEL | 4000 FT | 6000 FT | 8000 FT | 10,000 FT |
|----------|-----------|---------|---------|---------|-----------|
|----------|-----------|---------|---------|---------|-----------|

### CARBURETOR

|                                  |                    |                    |                    |                    |                    |
|----------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| MAIN JET                         | PTO 420<br>MAG 440 | PTO 380<br>MAG 400 | PTO 360<br>MAG 380 | PTO 340<br>MAG 360 | PTO 320<br>MAG 340 |
| NEEDLE JET                       | 224 AA-5           | 224 AA-5           | 224 AA-0           | 224 AA-0           | 224 AA-0           |
| PILOT JET                        | 40                 | 40                 | 50                 | 50                 | 50                 |
| NEEDLE                           | 7EJ5               | 7EJ5               | 7EJ5               | 7EJ5               | 7EJ5               |
| NEEDLE CLIP<br>POSITION FROM TOP | PTO 1<br>MAG 2     | PTO 1<br>MAG 2     | PTO 2<br>MAG 3     | PTO 2<br>MAG 3     | PTO 2<br>MAG 3     |
| SLIDE CUT-AWAY                   | 2.5                | 2.5                | 2.5                | 2.5                | 2.5                |
| AIR SCREW                        | 1/2                | 1/2                | 3/4                | 3/4                | 3/4                |
| IDLE SPEED (RPM)                 | 1800-2000          | 1800-2000          | 1800-2000          | 1800-2000          | 1800-2000          |

### DRIVE PULLEY

|                               |                          |                          |                          |                          |                          |
|-------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| RETURN SPRING                 | Blue-Blue<br>420 4381 36 | Blue-Blue<br>420 4381 36 | Blue-Blue<br>420 4381 36 | Blue-Blue<br>420 4381 36 | Blue-Blue<br>420 4381 36 |
| CENTRIFUGAL<br>LEVER ARM      | Std                      | Std                      | Std                      | Std                      | Std                      |
| CALIBRATION<br>WASHERS OR PIN | 504 2596 00<br>(solid)   | 504 2596 00<br>(solid)   | 504 2596 00<br>(solid)   | 504 2596 00<br>(solid)   | 504 2596 00<br>(solid)   |
| GOVERNOR CUP<br>OR RAMP       | 280<br>420 4802 80       | 228<br>420 4802 28       | 228<br>420 4802 28       | 228<br>420 4802 28       | 228<br>420 4802 28       |
| CALIBRATION<br>SCREW POSITION | 4                        | 4                        | 4                        | 4                        | 4                        |

### DRIVEN PULLEY

|                      |                         |                         |                         |                         |                         |
|----------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| SPRING PRELOAD       | 12 lb $\pm \frac{0}{3}$ | 15 lb $\pm \frac{0}{3}$ | 15 lb $\pm \frac{0}{3}$ | 15 lb $\pm \frac{0}{3}$ | 15 lb $\pm \frac{0}{3}$ |
| CAM                  | 44°<br>504 1348 00      | 44°<br>504 1348 00      | 44°<br>504 1348 00      | 44°<br>504 1348 00      | 44°<br>504 1348 00      |
| CHAINCASE<br>GEARING | 26/44                   | 26/44                   | 26/44                   | 26/44                   | 26/44                   |

### SPECIAL SET-UP NOTES :

High altitude kit available (P/N 861 7377 00).

This vehicle is equipped with a "TRA" type clutch.

For optimum performance starting at 4000 ft, a 24-th sprocket (P/N 504 0786 00) may be installed. For reverse option, a 25-th sprocket (P/N 504 0843 00) may be installed.

## MAIN JET CHART

| <div style="display: flex; align-items: center; justify-content: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TEMPERATURE</div> <div style="text-align: center;"> <div>°C</div> <div>(°F)</div> </div> </div> |                | MAIN JET       |                |             |              |           |            |            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|----------------|-------------|--------------|-----------|------------|------------|
|                                                                                                                                                                                                                                               |                | - 40<br>(- 40) | - 30<br>(- 20) | - 20<br>(0) | - 10<br>(14) | 0<br>(32) | 10<br>(50) | 20<br>(70) |
| ALTITUDE<br>METERS (FEET)                                                                                                                                                                                                                     | 0<br>Sea level | PTO 450        | 440            | <b>420</b>  | 410          | 400       | 380        | 360        |
|                                                                                                                                                                                                                                               | MAG            | 470            | 460            | <b>440</b>  | 430          | 420       | 400        | 380        |
| 1200<br>(4000)                                                                                                                                                                                                                                | PTO            | 410            | 390            | <b>380</b>  | 360          | 350       | 340        | 320        |
|                                                                                                                                                                                                                                               | MAG            | 430            | 410            | <b>400</b>  | 380          | 370       | 360        | 340        |
| 1800<br>(6000)                                                                                                                                                                                                                                | PTO            | 380            | 370            | <b>360</b>  | 340          | 330       | 320        | 300        |
|                                                                                                                                                                                                                                               | MAG            | 400            | 390            | <b>380</b>  | 360          | 350       | 330        | 310        |
| 2400<br>(8000)                                                                                                                                                                                                                                | PTO            | 360            | 350            | <b>340</b>  | 320          | 310       | 290        | 280        |
|                                                                                                                                                                                                                                               | MAG            | 380            | 370            | <b>360</b>  | 340          | 320       | 300        | 290        |
| 3000<br>(10000)                                                                                                                                                                                                                               | PTO            | 340            | 330            | <b>320</b>  | 300          | 290       | 270        | 260        |
|                                                                                                                                                                                                                                               | MAG            | 360            | 350            | <b>340</b>  | 310          | 300       | 280        | 270        |

 **CAUTION :** These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

MODEL 3798  
**FORMULA MACH 1 XTC**

**1993**

| ALTITUDE | SEA LEVEL | 4000 FT | 6000 FT | 8000 FT | 10,000 FT |
|----------|-----------|---------|---------|---------|-----------|
|----------|-----------|---------|---------|---------|-----------|

**CARBURETOR**

|                                  |                    |                    |                    |                    |                    |
|----------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| MAIN JET                         | PTO 420<br>MAG 440 | PTO 380<br>MAG 400 | PTO 360<br>MAG 380 | PTO 340<br>MAG 360 | PTO 320<br>MAG 340 |
| NEEDLE JET                       | 224 AA-5           | 224 AA-5           | 224 AA-0           | 224 AA-0           | 224 AA-0           |
| PILOT JET                        | 40                 | 40                 | 50                 | 50                 | 50                 |
| NEEDLE                           | 7EJ5               | 7EJ5               | 7EJ5               | 7EJ5               | 7EJ5               |
| NEEDLE CLIP<br>POSITION FROM TOP | PTO 1<br>MAG 2     | PTO 1<br>MAG 2     | PTO 2<br>MAG 3     | PTO 2<br>MAG 3     | PTO 2<br>MAG 3     |
| SLIDE CUT-AWAY                   | 2.5                | 2.5                | 2.5                | 2.5                | 2.5                |
| AIR SCREW                        | 1/2                | 1/2                | 3/4                | 3/4                | 3/4                |
| IDLE SPEED (RPM)                 | 1800-2000          | 1800-2000          | 1800-2000          | 1800-2000          | 1800-2000          |

**DRIVE PULLEY**

|                               |                          |                          |                          |                          |                          |
|-------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| RETURN SPRING                 | Blue-Blue<br>420 4381 36 | Blue-Blue<br>420 4381 36 | Blue-Blue<br>420 4381 36 | Blue-Blue<br>420 4381 36 | Blue-Blue<br>420 4381 36 |
| CENTRIFUGAL<br>LEVER ARM      | Std                      | Std                      | Std                      | Std                      | Std                      |
| CALIBRATION<br>WASHERS OR PIN | 504 2596 00<br>(solid)   | 504 2596 00<br>(solid)   | 504 2596 00<br>(solid)   | 504 2596 00<br>(solid)   | 504 2596 00<br>(solid)   |
| GOVERNOR CUP<br>OR RAMP       | 280<br>420 4802 80       | 228<br>420 4802 28       | 228<br>420 4802 28       | 228<br>420 4802 28       | 228<br>420 4802 28       |
| CALIBRATION<br>SCREW POSITION | 5                        | 5                        | 5                        | 5                        | 5                        |

**DRIVEN PULLEY**

|                      |                         |                         |                         |                         |                         |
|----------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| SPRING PRELOAD       | 12 lb $\pm \frac{0}{3}$ | 15 lb $\pm \frac{0}{3}$ | 15 lb $\pm \frac{0}{3}$ | 15 lb $\pm \frac{0}{3}$ | 15 lb $\pm \frac{0}{3}$ |
| CAM                  | 44°<br>504 1348 00      | 44°<br>504 1348 00      | 44°<br>504 1348 00      | 44°<br>504 1348 00      | 44°<br>504 1348 00      |
| CHAINCASE<br>GEARING | 25/44                   | 25/44                   | 25/44                   | 25/44                   | 25/44                   |

**SPECIAL SET-UP NOTES :**

High altitude kit available (P/N 861 7377 00).

This vehicle is equipped with a "TRA" type clutch.

For optimum performance starting at 4000 ft, a 24-th sprocket (P/N 504 0786 00) may be installed. For reverse option, a 23-th sprocket (P/N 504 0854 00) with a 72-link chain (P/N 412 1067 00) may be installed.

## MAIN JET CHART

| <div>TEMPERATURE</div> <div>°C<br/>(°F)</div> <div>ALTITUDE<br/>METERS (FEET)</div> |     | MAIN JET       |                |             |              |           |            |            |
|-------------------------------------------------------------------------------------|-----|----------------|----------------|-------------|--------------|-----------|------------|------------|
|                                                                                     |     | − 40<br>(− 40) | − 30<br>(− 20) | − 20<br>(0) | − 10<br>(14) | 0<br>(32) | 10<br>(50) | 20<br>(70) |
| 0<br>Sea level                                                                      | PTO | 450            | 440            | 420         | 410          | 400       | 380        | 360        |
|                                                                                     | MAG | 470            | 460            | 440         | 430          | 420       | 400        | 380        |
| 1200<br>(4000)                                                                      | PTO | 410            | 390            | 380         | 360          | 350       | 340        | 320        |
|                                                                                     | MAG | 430            | 410            | 400         | 380          | 370       | 360        | 340        |
| 1800<br>(6000)                                                                      | PTO | 380            | 370            | 360         | 340          | 330       | 320        | 300        |
|                                                                                     | MAG | 400            | 390            | 380         | 360          | 350       | 330        | 310        |
| 2400<br>(8000)                                                                      | PTO | 360            | 350            | 340         | 320          | 310       | 290        | 280        |
|                                                                                     | MAG | 380            | 370            | 360         | 340          | 320       | 300        | 290        |
| 3000<br>(10000)                                                                     | PTO | 340            | 330            | 320         | 300          | 290       | 270        | 260        |
|                                                                                     | MAG | 360            | 350            | 340         | 310          | 300       | 280        | 270        |

 **CAUTION :** These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

MODEL 3799  
**FORMULA PLUS EFI**

**1993**

| ALTITUDE | SEA<br>LEVEL | 4000 FT | 6000 FT | 8000 FT | 10,000 FT |
|----------|--------------|---------|---------|---------|-----------|
|----------|--------------|---------|---------|---------|-----------|

**DRIVE PULLEY**

|                               |                            |                            |                            |                            |                            |
|-------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| RETURN SPRING                 | Blue-Orange<br>414 6390 00 | Blue-Orange<br>414 6390 00 | Blue-Orange<br>414 6390 00 | Blue-Orange<br>414 6390 00 | Blue-Orange<br>414 6390 00 |
| CENTRIFUGAL<br>LEVER ARM      | Std                        | Std                        | Std                        | Std                        | Std                        |
| CALIBRATION<br>WASHERS OR PIN | Std                        | Std                        | Std                        | Std                        | Std                        |
| GOVERNOR CUP<br>OR RAMP       | 228<br>420 4802 28         | 228<br>420 4802 28         | 228<br>420 4802 28         | 228<br>420 4802 28         | 228<br>420 4802 28         |
| CALIBRATION<br>SCREW POSITION | 2                          | 3                          | 3                          | 3                          | 3                          |

**DRIVEN PULLEY**

|                      |                         |                         |                         |                         |                         |
|----------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| SPRING PRELOAD       | 12 lb $\pm \frac{0}{3}$ | 15 lb $\pm \frac{0}{3}$ | 15 lb $\pm \frac{0}{3}$ | 15 lb $\pm \frac{0}{3}$ | 15 lb $\pm \frac{0}{3}$ |
| CAM                  | 44°<br>504 1348 00      | 36°<br>504 1355 00      | 36°<br>504 1355 00      | 36°<br>504 1355 00      | 36°<br>504 1355 00      |
| CHAINCASE<br>GEARING | 25/44                   | 23/44                   | 23/44                   | 23/44                   | 23/44                   |

**SPECIAL SET-UP NOTES :**

High altitude kit available (P/N 861 7379 00).

This vehicle is equipped with a "TRA" type clutch.

Use 72-link drive chain (P/N 412 1055 00) supplied in kit.

| ALTITUDE | SEA LEVEL | 4000 FT | 6000 FT | 8000 FT | 10,000 FT |
|----------|-----------|---------|---------|---------|-----------|
|----------|-----------|---------|---------|---------|-----------|

**CARBURETOR**

|                               |           |           |           |           |           |
|-------------------------------|-----------|-----------|-----------|-----------|-----------|
| MAIN JET                      | 160       | 145       | 135       | 125       | 120       |
| NEEDLE JET                    | 182 O-8   | 182 O-8   | 182 O-8   | 182 O-8   | 182 O-8   |
| PILOT JET                     | 30        | 30        | 30        | 30        | 30        |
| NEEDLE                        | 6DP1      | 6DP1      | 6DP1      | 6DP1      | 6DP1      |
| NEEDLE CLIP POSITION FROM TOP | 3         | 3         | 3         | 3         | 3         |
| SLIDE CUT-AWAY                | 2.0       | 2.0       | 2.0       | 2.0       | 2.0       |
| AIR SCREW                     | 1-1/2     | 1-1/2     | 1-1/2     | 1-1/2     | 1-1/2     |
| IDLE SPEED (RPM)              | 1100-1300 | 1100-1300 | 1100-1300 | 1100-1300 | 1100-1300 |

**DRIVE PULLEY**

|                            |                          |                          |                          |                          |                          |
|----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| RETURN SPRING              | Blue-Blue<br>417 1150 00 | Blue-Blue<br>417 1150 00 | Blue-Blue<br>417 1150 00 | Blue-Blue<br>417 1150 00 | Blue-Blue<br>417 1150 00 |
| BLOCK                      | 417 1143 00<br>Std       | 417 1143 00<br>Std       | 417 1143 00<br>Std       | 417 1143 00<br>Std       | 417 1143 00<br>Std       |
| WEIGHT                     | 417 1144 00<br>6         | 417 1144 00<br>6         | 417 1144 00<br>5         | 417 1144 00<br>5         | 417 1144 00<br>5         |
| CAPSULE                    | 417 1145 00<br>Std       | 417 1145 00<br>Std       | 417 1145 00<br>Std       | 417 1145 00<br>Std       | 417 1145 00<br>Std       |
| CALIBRATION SCREW POSITION | N.A.                     | N.A.                     | N.A.                     | N.A.                     | N.A.                     |

**DRIVEN PULLEY**

|                   |                             |                             |                             |                             |                             |
|-------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| SPRING PRELOAD    | 8 lb ± 1.5                  | 10 lb ± 1.5                 | 10 lb ± 1.5                 | 10 lb ± 1.5                 | 10 lb ± 1.5                 |
| CAM               | 40.4°<br>Std<br>504 1029 00 | 40.4°<br>Std<br>504 1029 00 | 40.4°<br>Std<br>504 1029 00 | 40.4°<br>Std<br>504 1029 00 | 40.4°<br>Std<br>504 1029 00 |
| CHAINCASE GEARING | 10/25                       | 10/25                       | 10/25                       | 10/25                       | 10/25                       |

**SPECIAL SET-UP NOTES :**

High altitude kit available (P/N 861 7399 00).

## MAIN JET CHART

| <div style="display: flex; align-items: center; justify-content: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TEMPERATURE</div> <div style="text-align: center;"> <div>°C</div> <div>(°F)</div> </div> </div> | MAIN JET     |              |            |             |           |            |            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|------------|-------------|-----------|------------|------------|
|                                                                                                                                                                                                                                               | -40<br>(-40) | -30<br>(-20) | -20<br>(0) | -10<br>(14) | 0<br>(32) | 10<br>(50) | 20<br>(70) |
| <div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">ALTITUDE<br/>METERS (FEET)</div> <div style="margin-left: 10px;">0<br/>Sea level</div> </div>                            | 170          | 165          | <b>160</b> | 155         | 150       | 145        | 140        |
| 1200<br>(4000)                                                                                                                                                                                                                                | 155          | 150          | <b>145</b> | 140         | 135       | 130        | 125        |
| 1800<br>(6000)                                                                                                                                                                                                                                | 145          | 140          | <b>135</b> | 130         | 125       | 120        | 115        |
| 2400<br>(8000)                                                                                                                                                                                                                                | 140          | 130          | <b>125</b> | 120         | 115       | 110        | 105        |
| 3000<br>(10000)                                                                                                                                                                                                                               | 130          | 125          | <b>120</b> | 115         | 110       | 105        | 100        |

 **CAUTION :** These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

MODEL 3258/3259  
**TUNDRA II/LT**

**1994**

| ALTITUDE | SEA<br>LEVEL | 4000 FT | 6000 FT | 8000 FT | 10,000 FT |
|----------|--------------|---------|---------|---------|-----------|
|----------|--------------|---------|---------|---------|-----------|

**CARBURETOR**

|                                  |           |           |           |           |           |
|----------------------------------|-----------|-----------|-----------|-----------|-----------|
| MAIN JET                         | 190       | 175       | 140       | 130       | 125       |
| NEEDLE JET                       | 159 O-8   | 159 O-8   | 159 O-8   | 159 O-8   | 159 O-8   |
| PILOT JET                        | 40        | 40        | 35        | 35        | 35        |
| NEEDLE                           | 6DH4      | 6DH4      | 6DH4      | 6DH4      | 6DH4      |
| NEEDLE CLIP<br>POSITION FROM TOP | 2         | 2         | 2         | 2         | 2         |
| SLIDE CUT-AWAY                   | 2.5       | 2.5       | 2.5       | 2.5       | 2.5       |
| AIR SCREW                        | 1         | 1         | 1         | 1         | 1         |
| IDLE SPEED (RPM)                 | 1100-1300 | 1100-1300 | 1100-1300 | 1100-1300 | 1100-1300 |

**DRIVE PULLEY**

|                          |                          |                     |                     |                     |                     |
|--------------------------|--------------------------|---------------------|---------------------|---------------------|---------------------|
| RETURN SPRING            | Turquoise<br>417 1159 00 | Blue<br>417 1156 00 | Blue<br>417 1156 00 | Blue<br>417 1156 00 | Blue<br>417 1156 00 |
| CENTRIFUGAL<br>LEVER ARM | B1KSH<br>504 0884 00     | A3SH<br>860 4166 00 | A3SH<br>860 4166 00 | A3SH<br>860 4166 00 | A3SH<br>860 4166 00 |
| BLOCK                    | 417 1143 00<br>Std       | 417 1157 00         | 417 1157 00         | 417 1157 00         | 417 1157 00         |
| WEIGHT                   | N.A.                     | 417 1158 00<br>3    | 417 1158 00<br>2    | 417 1158 00<br>2    | 417 1158 00<br>1    |
| CAPSULE                  | 2                        | 0                   | 0                   | 0                   | 0                   |

**DRIVEN PULLEY**

|                      |                             |                             |                             |                             |                             |
|----------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| SPRING PRELOAD       | 8 lb ± 2                    | 13 lb ± 1                   | 13 lb ± 1                   | 13 lb ± 1                   | 13 lb ± 1                   |
| CAM                  | 37.8°<br>Std<br>504 0813 00 | 37.8°<br>Std<br>504 0813 00 | 37.8°<br>Std<br>504 0813 00 | 37.8°<br>Std<br>504 0813 00 | 37.8°<br>Std<br>504 0813 00 |
| CHAINCASE<br>GEARING | 14/25<br>Std                | 14/25<br>Std                | 14/25<br>Std                | 14/25<br>Std                | 14/25<br>Std                |

**SPECIAL SET-UP NOTES :**

High altitude kit available (P/N 861 7434 00).

## MAIN JET CHART

| <div style="display: flex; align-items: center; justify-content: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TEMPERATURE</div> <div style="text-align: right; padding-right: 10px;">°C<br/>(°F)</div> </div> | MAIN JET       |                |             |              |           |            |            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|-------------|--------------|-----------|------------|------------|
|                                                                                                                                                                                                                                               | - 40<br>(- 40) | - 30<br>(- 20) | - 20<br>(0) | - 10<br>(14) | 0<br>(32) | 10<br>(50) | 20<br>(70) |
| ALTITUDE<br>METERS (FEET)                                                                                                                                                                                                                     |                |                |             |              |           |            |            |
| 0<br>Sea level                                                                                                                                                                                                                                | 210            | 200            | <b>190</b>  | 185          | 180       | 170        | 165        |
| 1200<br>(4000)                                                                                                                                                                                                                                | 190            | 180            | <b>175</b>  | 170          | 165       | 155        | 150        |
| 1800<br>(6000)                                                                                                                                                                                                                                | 150            | 145            | <b>140</b>  | 135          | 130       | 125        | 120        |
| 2400<br>(8000)                                                                                                                                                                                                                                | 145            | 135            | <b>130</b>  | 125          | 120       | 115        | 110        |
| 3000<br>(10000)                                                                                                                                                                                                                               | 135            | 130            | <b>125</b>  | 120          | 115       | 110        | 105        |

 **CAUTION :** These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

MODEL 3356  
**ALPINE II**

**1994**

| ALTITUDE | SEA<br>LEVEL | 4000 FT | 6000 FT | 8000 FT | 10,000 FT |
|----------|--------------|---------|---------|---------|-----------|
|----------|--------------|---------|---------|---------|-----------|

**CARBURETOR**

|                                  |           |           |           |           |           |
|----------------------------------|-----------|-----------|-----------|-----------|-----------|
| MAIN JET                         | 200       | 180       | 170       | 160       | 145       |
| NEEDLE JET                       | 159 P-0   | 159 P-0   | 159 P-0   | 159 P-0   | 159 P-0   |
| PILOT JET                        | 40        | 40        | 40        | 40        | 40        |
| NEEDLE                           | 6DH3      | 6DH3      | 6DH3      | 6DH3      | 6DH3      |
| NEEDLE CLIP<br>POSITION FROM TOP | 2         | 2         | 2         | 2         | 2         |
| SLIDE CUTAWAY                    | 2.5       | 2.5       | 2.5       | 2.5       | 2.5       |
| AIR SCREW                        | 1 1/2     | 1 1/2     | 1 1/2     | 1 1/2     | 1 1/2     |
| IDLE SPEED (RPM)                 | 1800-2000 | 1800-2000 | 1800-2000 | 1800-2000 | 1800-2000 |

**DRIVE PULLEY**

|                               |                        |                          |                          |                          |                          |
|-------------------------------|------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| RETURN SPRING                 | Red-Red<br>414 6898 00 | Red-Green<br>414 6892 00 | Red-Green<br>414 6892 00 | Red-Green<br>414 6892 00 | Red-Green<br>414 6892 00 |
| CENTRIFUGAL<br>LEVER ARM      | Std                    | Std                      | Std                      | Std                      | Std                      |
| CALIBRATION<br>WASHERS OR PIN | Std                    | Std                      | Std                      | Std                      | Std                      |
| GOVERNOR CUP<br>OR RAMP       | 221<br>420 4802 21     | 221<br>420 4802 21       | 221<br>420 4802 21       | 221<br>420 4802 21       | 221<br>420 4802 21       |
| CALIBRATION<br>SCREW POSITION | 4                      | 4                        | 4                        | 4                        | 4                        |

**DRIVEN PULLEY**

|                      |           |           |           |           |           |
|----------------------|-----------|-----------|-----------|-----------|-----------|
| SPRING PRELOAD       | 17 lb ± 2 | 17 lb ± 2 | 17 lb ± 2 | 17 lb ± 2 | 17 lb ± 2 |
| CAM                  | Std       | Std       | Std       | Std       | Std       |
| CHAINCASE<br>GEARING | 17/46     | 17/46     | 17/46     | 17/46     | 17/46     |

**SPECIAL SET-UP NOTES :**

High altitude kit available (P/N 861 7253 00).

This vehicle is equipped with a "TRA" type clutch.

## MAIN JET CHART

| <div style="display: flex; align-items: center; justify-content: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TEMPERATURE</div> <div style="margin-left: 10px;"> <div style="display: flex; align-items: center; justify-content: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">ALTITUDE<br/>METERS (FEET)</div> <div style="margin-left: 10px;"> <div>°C</div> <div>(°F)</div> </div> </div> </div> </div> | MAIN JET       |                |             |              |           |            |            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|-------------|--------------|-----------|------------|------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | - 40<br>(- 40) | - 30<br>(- 20) | - 20<br>(0) | - 10<br>(14) | 0<br>(32) | 10<br>(50) | 20<br>(70) |
| 0<br>Sea level                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 220            | 210            | <b>200</b>  | 195          | 190       | 180        | 175        |
| 1200<br>(4000)                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 195            | 185            | <b>180</b>  | 175          | 170       | 165        | 155        |
| 1800<br>(6000)                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 180            | 175            | <b>170</b>  | 165          | 160       | 155        | 150        |
| 2400<br>(8000)                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 170            | 165            | <b>160</b>  | 155          | 150       | 145        | 140        |
| 3000<br>(10000)                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 155            | 150            | <b>145</b>  | 140          | 135       | 130        | 125        |

 **CAUTION :** These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

# SAFARI L/DL, SKANDIC II 377/377 R

# 1994

| ALTITUDE | SEA<br>LEVEL | 4000 FT | 6000 FT | 8000 FT | 10,000 FT |
|----------|--------------|---------|---------|---------|-----------|
|----------|--------------|---------|---------|---------|-----------|

## CARBURETOR

|                                  |                    |                    |                    |                    |                    |
|----------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| MAIN JET                         | PTO 140<br>MAG 140 | PTO 130<br>MAG 130 | PTO 125<br>MAG 125 | PTO 115<br>MAG 115 | PTO 110<br>MAG 110 |
| NEEDLE JET                       | 159 O-8            | 159 O-8            | 159 O-8            | 159 O-8            | 159 O-8            |
| PILOT JET                        | 35                 | 35                 | 35                 | 35                 | 35                 |
| NEEDLE                           | 6DH7               | 6DH7               | 6DH7               | 6DH7               | 6DH7               |
| NEEDLE CLIP<br>POSITION FROM TOP | 3                  | 3                  | 2                  | 2                  | 2                  |
| SLIDE CUT-AWAY                   | 2.5                | 2.5                | 2.5                | 2.5                | 2.5                |
| AIR SCREW                        | 1                  | 1                  | 1                  | 1                  | 1                  |
| IDLE SPEED (RPM)                 | 1800-2000          | 1800-2000          | 1800-2000          | 1800-2000          | 1800-2000          |

## DRIVE PULLEY

|                               |                           |                              |                              |                              |                              |
|-------------------------------|---------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| RETURN SPRING                 | Red-Purple<br>414 7010 00 | Purple-Purple<br>414 8179 00 | Purple-Purple<br>414 8179 00 | Purple-Purple<br>414 8179 00 | Purple-Purple<br>414 8179 00 |
| CENTRIFUGAL<br>LEVER ARM      | Std                       | Std                          | Std                          | Std                          | Std                          |
| CALIBRATION<br>WASHERS OR PIN | Std                       | Std                          | Std                          | Std                          | Std                          |
| GOVERNOR CUP<br>OR RAMP       | 227<br>420 4802 27        | 227<br>420 4802 27           | 227<br>420 4802 27           | 227<br>420 4802 27           | 227<br>420 4802 27           |
| CALIBRATION<br>SCREW POSITION | 4                         | 4                            | 4                            | 5                            | 5                            |

## DRIVEN PULLEY

|                      |               |             |             |             |             |
|----------------------|---------------|-------------|-------------|-------------|-------------|
| SPRING PRELOAD       | 10.5 lb ± 1.5 | 12 lb ± 1.5 | 12 lb ± 1.5 | 12 lb ± 1.5 | 12 lb ± 1.5 |
| CAM                  | Std           | Std         | Std         | Std         | Std         |
| CHAINCASE<br>GEARING | 20/44         | 20/44       | 20/44       | 20/44       | 20/44       |

### SPECIAL SET-UP NOTES :

High altitude kit available (P/N 861 7435 00).

This vehicle is equipped with a "TRA" type clutch.

For optimum performance starting at 4000 ft, a 18-th sprocket (P/N 504 0701 00) with a 94-link chain (P/N 412 1065 00) may be installed.

## MAIN JET CHART

| <div style="display: flex; align-items: center; justify-content: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TEMPERATURE</div> <div style="text-align: right; padding-right: 10px;">°C<br/>(°F)</div> </div> |                | MAIN JET       |                |             |              |           |            |            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|----------------|-------------|--------------|-----------|------------|------------|
|                                                                                                                                                                                                                                               |                | - 40<br>(- 40) | - 30<br>(- 20) | - 20<br>(0) | - 10<br>(14) | 0<br>(32) | 10<br>(50) | 20<br>(70) |
| ALTITUDE<br>METERS (FEET)                                                                                                                                                                                                                     | 0<br>Sea level | 150            | 145            | <b>140</b>  | 135          | 130       | 125        | 120        |
|                                                                                                                                                                                                                                               | MAG            | 150            | 145            | <b>140</b>  | 135          | 130       | 125        | 120        |
| 1200<br>(4000)                                                                                                                                                                                                                                | PTO            | 140            | 135            | <b>130</b>  | 125          | 120       | 115        | 110        |
|                                                                                                                                                                                                                                               | MAG            | 140            | 135            | <b>130</b>  | 125          | 120       | 115        | 110        |
| 1800<br>(6000)                                                                                                                                                                                                                                | PTO            | 135            | 130            | <b>125</b>  | 120          | 115       | 110        | 105        |
|                                                                                                                                                                                                                                               | MAG            | 135            | 130            | <b>125</b>  | 120          | 115       | 110        | 105        |
| 2400<br>(8000)                                                                                                                                                                                                                                | PTO            | 125            | 120            | <b>115</b>  | 110          | 105       | 100        | 95         |
|                                                                                                                                                                                                                                               | MAG            | 125            | 120            | <b>115</b>  | 110          | 105       | 100        | 95         |
| 3000<br>(10000)                                                                                                                                                                                                                               | PTO            | 120            | 115            | <b>110</b>  | 105          | 100       | 95         | 90         |
|                                                                                                                                                                                                                                               | MAG            | 120            | 115            | <b>110</b>  | 105          | 100       | 95         | 90         |

 **CAUTION :** These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

MODEL 3687  
**SKANDIC II 503 R**

**1994**

| ALTITUDE | SEA LEVEL | 4000 FT | 6000 FT | 8000 FT | 10,000 FT |
|----------|-----------|---------|---------|---------|-----------|
|----------|-----------|---------|---------|---------|-----------|

**CARBURETOR**

|                                  |                    |                    |                    |                    |                    |
|----------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| MAIN JET                         | PTO 190<br>MAG 180 | PTO 170<br>MAG 160 | PTO 140<br>MAG 145 | PTO 130<br>MAG 135 | PTO 120<br>MAG 125 |
| NEEDLE JET                       | 159 P-0            | 159 P-0            | 159 P-0            | 159 P-0            | 159 P-0            |
| PILOT JET                        | 40                 | 40                 | 40                 | 40                 | 40                 |
| NEEDLE                           | 6DH2               | 6DH2               | 6DH2               | 6DH2               | 6DH2               |
| NEEDLE CLIP<br>POSITION FROM TOP | 3                  | 3                  | 3                  | 3                  | 3                  |
| SLIDE CUT-AWAY                   | 2.5                | 2.5                | 2.5                | 2.5                | 2.5                |
| AIR SCREW                        | 1-1/2              | 1-1/4              | 1-1/4              | 1-1/4              | 1-1/4              |
| IDLE SPEED (RPM)                 | 1500-1800          | 1500-1800          | 1500-1800          | 1500-1800          | 1500-1800          |

**DRIVE PULLEY**

|                               |                            |                          |                          |                          |                          |
|-------------------------------|----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| RETURN SPRING                 | Blue-Yellow<br>414 6895 00 | Blue-Blue<br>414 6894 00 | Blue-Blue<br>414 6894 00 | Blue-Blue<br>414 6894 00 | Blue-Blue<br>414 6894 00 |
| CENTRIFUGAL<br>LEVER ARM      | 420 4484 55                | 420 4484 55              | 420 4484 55              | 420 4484 55              | 420 4484 55              |
| CALIBRATION<br>WASHERS OR PIN | 420 4291 40<br>(hollow)    | 420 4291 40<br>(hollow)  | 420 4291 40<br>(hollow)  | 420 4291 40<br>(hollow)  | 420 4291 40<br>(hollow)  |
| GOVERNOR CUP<br>OR RAMP       | 226<br>420 4802 26         | 227<br>420 4802 27       | 227<br>420 4802 27       | 227<br>420 4802 27       | 227<br>420 4802 27       |
| CALIBRATION<br>SCREW POSITION | 3                          | 3                        | 3                        | 3                        | 4                        |

**DRIVEN PULLEY**

|                      |                      |                      |                      |                      |                      |
|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| SPRING PRELOAD       | 8 lb ± 1.5           | 11 lb ± 1.5          | 11 lb ± 1.5          | 11 lb ± 1.5          | 11 lb ± 1.5          |
| CAM                  | 37.8°<br>504 1380 00 | 37.8°<br>504 1380 00 | 37.8°<br>504 1380 00 | 37.8°<br>504 1380 00 | 37.8°<br>504 1380 00 |
| CHAINCASE<br>GEARING | 21/44                | 21/44                | 21/44                | 21/44                | 21/44                |

**SPECIAL SET-UP NOTES :**

High altitude kit available (P/N 861 7438 00).

This vehicle is equipped with a "TRA" type clutch.

## MAIN JET CHART

| <div>TEMPERATURE</div> <div>°C<br/>(°F)</div> <div>ALTITUDE<br/>METERS (FEET)</div> |     | MAIN JET     |              |            |             |           |            |            |
|-------------------------------------------------------------------------------------|-----|--------------|--------------|------------|-------------|-----------|------------|------------|
|                                                                                     |     | -40<br>(-40) | -30<br>(-20) | -20<br>(0) | -10<br>(14) | 0<br>(32) | 10<br>(50) | 20<br>(70) |
| 0<br>Sea level                                                                      | PTO | 210          | 200          | 190        | 180         | 175       | 170        | 165        |
|                                                                                     | MAG | 200          | 190          | 180        | 170         | 165       | 160        | 155        |
| 1200<br>(4000)                                                                      | PTO | 185          | 175          | 170        | 165         | 160       | 150        | 145        |
|                                                                                     | MAG | 175          | 165          | 160        | 155         | 150       | 140        | 135        |
| 1800<br>(6000)                                                                      | PTO | 155          | 145          | 140        | 135         | 130       | 125        | 120        |
|                                                                                     | MAG | 160          | 150          | 145        | 140         | 135       | 130        | 125        |
| 2400<br>(8000)                                                                      | PTO | 145          | 140          | 130        | 125         | 120       | 115        | 110        |
|                                                                                     | MAG | 150          | 145          | 135        | 130         | 125       | 120        | 115        |
| 3000<br>(10000)                                                                     | PTO | 135          | 130          | 120        | 115         | 110       | 105        | 100        |
|                                                                                     | MAG | 140          | 135          | 125        | 120         | 115       | 110        | 105        |

 **CAUTION :** These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

MODEL 3688  
**SKANDIC II 503 R SLT**

**1994**

| ALTITUDE | SEA<br>LEVEL | 4000 FT | 6000 FT | 8000 FT | 10,000 FT |
|----------|--------------|---------|---------|---------|-----------|
|----------|--------------|---------|---------|---------|-----------|

**CARBURETOR**

|                                  |                    |                    |                    |                    |                    |
|----------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| MAIN JET                         | PTO 190<br>MAG 180 | PTO 170<br>MAG 160 | PTO 140<br>MAG 145 | PTO 130<br>MAG 135 | PTO 120<br>MAG 125 |
| NEEDLE JET                       | 159 P-0            | 159 P-0            | 159 P-0            | 159 P-0            | 159 P-0            |
| PILOT JET                        | 40                 | 40                 | 40                 | 40                 | 40                 |
| NEEDLE                           | 6DH2               | 6DH2               | 6DH2               | 6DH2               | 6DH2               |
| NEEDLE CLIP<br>POSITION FROM TOP | 3                  | 3                  | 3                  | 3                  | 3                  |
| SLIDE CUT-AWAY                   | 2.5                | 2.5                | 2.5                | 2.5                | 2.5                |
| AIR SCREW                        | 1-1/2              | 1-1/4              | 1-1/4              | 1-1/4              | 1-1/4              |
| IDLE SPEED (RPM)                 | 1800-2000          | 1800-2000          | 1800-2000          | 1800-2000          | 1800-2000          |

**DRIVE PULLEY**

|                               |                          |                          |                          |                          |                          |
|-------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| RETURN SPRING                 | Red-Green<br>414 6892 00 | Blue-Blue<br>414 6894 00 | Blue-Blue<br>414 6894 00 | Blue-Blue<br>414 6894 00 | Blue-Blue<br>414 6894 00 |
| CENTRIFUGAL<br>LEVER ARM      | 420 4484 55              | 420 4484 55              | 420 4484 55              | 420 4484 55              | 420 4484 55              |
| CALIBRATION<br>WASHERS OR PIN | 420 4291 40<br>(hollow)  | 420 4291 40<br>(hollow)  | 420 4291 40<br>(hollow)  | 420 4291 40<br>(hollow)  | 420 4291 40<br>(hollow)  |
| GOVERNOR CUP<br>OR RAMP       | 226<br>420 4802 26       | 227<br>420 4802 27       | 227<br>420 4802 27       | 227<br>420 4802 27       | 227<br>420 4802 27       |
| CALIBRATION<br>SCREW POSITION | 3                        | 2                        | 2                        | 2                        | 3                        |

**DRIVEN PULLEY**

|                      |                      |                      |                      |                      |                      |
|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| SPRING PRELOAD       | 8 lb ± 1.5           | 11 lb ± 1.5          | 11 lb ± 1.5          | 11 lb ± 1.5          | 11 lb ± 1.5          |
| CAM                  | 37.8°<br>504 1380 00 | 37.8°<br>504 1380 00 | 37.8°<br>504 1380 00 | 37.8°<br>504 1380 00 | 37.8°<br>504 1380 00 |
| CHAINCASE<br>GEARING | 20/44                | 20/44                | 20/44                | 20/44                | 20/44                |

**SPECIAL SET-UP NOTES :**

High altitude kit available (P/N 861 7438 00).

This vehicle is equipped with a "TRA" type clutch.

## MAIN JET CHART

| <div>TEMPERATURE</div> <div>°C<br/>(°F)</div> <div>ALTITUDE<br/>METERS (FEET)</div> |     | MAIN JET       |                |             |              |           |            |            |
|-------------------------------------------------------------------------------------|-----|----------------|----------------|-------------|--------------|-----------|------------|------------|
|                                                                                     |     | - 40<br>(- 40) | - 30<br>(- 20) | - 20<br>(0) | - 10<br>(14) | 0<br>(32) | 10<br>(50) | 20<br>(70) |
| 0<br>Sea level                                                                      | PTO | 210            | 200            | <b>190</b>  | 180          | 175       | 170        | 165        |
|                                                                                     | MAG | 200            | 190            | <b>180</b>  | 170          | 165       | 160        | 155        |
| 1200<br>(4000)                                                                      | PTO | 185            | 175            | <b>170</b>  | 165          | 160       | 150        | 145        |
|                                                                                     | MAG | 175            | 165            | <b>160</b>  | 155          | 150       | 140        | 135        |
| 1800<br>(6000)                                                                      | PTO | 155            | 145            | <b>140</b>  | 135          | 130       | 125        | 120        |
|                                                                                     | MAG | 160            | 150            | <b>145</b>  | 140          | 135       | 130        | 125        |
| 2400<br>(8000)                                                                      | PTO | 145            | 140            | <b>130</b>  | 125          | 120       | 115        | 110        |
|                                                                                     | MAG | 150            | 145            | <b>135</b>  | 130          | 125       | 120        | 115        |
| 3000<br>(10000)                                                                     | PTO | 135            | 130            | <b>120</b>  | 115          | 110       | 105        | 100        |
|                                                                                     | MAG | 140            | 135            | <b>125</b>  | 120          | 115       | 110        | 105        |



**CAUTION :** These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

MODEL 3689  
**SAFARI RALLY E**

**1994**

| ALTITUDE | SEA LEVEL | 4000 FT | 6000 FT | 8000 FT | 10,000 FT |
|----------|-----------|---------|---------|---------|-----------|
|----------|-----------|---------|---------|---------|-----------|

**CARBURETOR**

|                                  |                    |                    |                    |                    |                    |
|----------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| MAIN JET                         | PTO 190<br>MAG 180 | PTO 170<br>MAG 160 | PTO 140<br>MAG 145 | PTO 130<br>MAG 135 | PTO 120<br>MAG 125 |
| NEEDLE JET                       | 159 P-0            | 159 P-0            | 159 P-0            | 159 P-0            | 159 P-0            |
| PILOT JET                        | 40                 | 40                 | 40                 | 40                 | 40                 |
| NEEDLE                           | 6DH2               | 6DH2               | 6DH2               | 6DH2               | 6DH2               |
| NEEDLE CLIP<br>POSITION FROM TOP | 3                  | 3                  | 3                  | 3                  | 3                  |
| SLIDE CUT-AWAY                   | 2.5                | 2.5                | 2.5                | 2.5                | 2.5                |
| AIR SCREW                        | 1-1/2              | 1-1/4              | 1-1/4              | 1-1/4              | 1-1/4              |
| IDLE SPEED (RPM)                 | 1500-1800          | 1500-1800          | 1500-1800          | 1500-1800          | 1500-1800          |

**DRIVE PULLEY**

|                               |                              |                          |                          |                          |                          |
|-------------------------------|------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| RETURN SPRING                 | Yellow-Yellow<br>414 7486 00 | Blue-Blue<br>414 6894 00 | Blue-Blue<br>414 6894 00 | Blue-Blue<br>414 6894 00 | Blue-Blue<br>414 6894 00 |
| CENTRIFUGAL<br>LEVER ARM      | 420 4484 55                  | 420 4484 55              | 420 4484 55              | 420 4484 55              | 420 4484 55              |
| CALIBRATION<br>WASHERS OR PIN | 420 4291 40<br>(hollow)      | 420 4291 40<br>(hollow)  | 420 4291 40<br>(hollow)  | 420 4291 40<br>(hollow)  | 420 4291 40<br>(hollow)  |
| GOVERNOR CUP<br>OR RAMP       | 226<br>420 4802 26           | 227<br>420 4802 27       | 227<br>420 4802 27       | 227<br>420 4802 27       | 227<br>420 4802 27       |
| CALIBRATION<br>SCREW POSITION | 3                            | 3                        | 3                        | 3                        | 4                        |

**DRIVEN PULLEY**

|                      |                      |                      |                      |                      |                      |
|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| SPRING PRELOAD       | 8 lb ± 1.5           | 11 lb ± 1.5          | 11 lb ± 1.5          | 11 lb ± 1.5          | 11 lb ± 1.5          |
| CAM                  | 37.8°<br>504 1380 00 | 37.8°<br>504 1380 00 | 37.8°<br>504 1380 00 | 37.8°<br>504 1380 00 | 37.8°<br>504 1380 00 |
| CHAINCASE<br>GEARING | 21/44                | 21/44                | 21/44                | 21/44                | 21/44                |

**SPECIAL SET-UP NOTES :**

High altitude kit available (P/N 861 7438 00).

This vehicle is equipped with a "TRA" type clutch.

## MAIN JET CHART

| <div style="display: flex; align-items: center; justify-content: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TEMPERATURE</div> <div style="text-align: right;">°C<br/>(°F)</div> </div> |                | MAIN JET       |                |             |              |           |            |            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|----------------|-------------|--------------|-----------|------------|------------|
|                                                                                                                                                                                                                          |                | − 40<br>(− 40) | − 30<br>(− 20) | − 20<br>(0) | − 10<br>(14) | 0<br>(32) | 10<br>(50) | 20<br>(70) |
| ALTITUDE<br>METERS (FEET)                                                                                                                                                                                                | 0<br>Sea level | PTO 210        | MAG 200        | <b>190</b>  | 180          | 175       | 170        | 165        |
|                                                                                                                                                                                                                          |                |                |                | <b>180</b>  | 170          | 165       | 160        | 155        |
| 1200<br>(4000)                                                                                                                                                                                                           | PTO            | 185            | 175            | <b>170</b>  | 165          | 160       | 150        | 145        |
|                                                                                                                                                                                                                          | MAG            | 175            | 165            | <b>160</b>  | 155          | 150       | 140        | 135        |
| 1800<br>(6000)                                                                                                                                                                                                           | PTO            | 155            | 145            | <b>140</b>  | 135          | 130       | 125        | 120        |
|                                                                                                                                                                                                                          | MAG            | 160            | 150            | <b>145</b>  | 140          | 135       | 130        | 125        |
| 2400<br>(8000)                                                                                                                                                                                                           | PTO            | 145            | 140            | <b>130</b>  | 125          | 120       | 115        | 110        |
|                                                                                                                                                                                                                          | MAG            | 150            | 145            | <b>135</b>  | 130          | 125       | 120        | 115        |
| 3000<br>(10000)                                                                                                                                                                                                          | PTO            | 135            | 130            | <b>120</b>  | 115          | 110       | 105        | 100        |
|                                                                                                                                                                                                                          | MAG            | 140            | 135            | <b>125</b>  | 120          | 115       | 110        | 105        |

 **CAUTION :** These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

MODEL 3863, 3866  
**MACH 1,**  
**GRAND TOURING SE**

**1994**

| ALTITUDE | SEA<br>LEVEL | 4000 FT | 6000 FT | 8000 FT | 10,000 FT |
|----------|--------------|---------|---------|---------|-----------|
|----------|--------------|---------|---------|---------|-----------|

**CARBURETOR**

|                                  |                        |                       |                       |                       |                       |
|----------------------------------|------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| MAIN JET                         | PTO 370<br>MAG 390     | PTO 340<br>MAG 360    | PTO 310<br>MAG 320    | PTO 290<br>MAG 300    | PTO 270<br>MAG 280    |
| NEEDLE JET                       | 404-1476<br>AA-4 (224) | 404-1484<br>Z-8 (224) | 404-1278<br>Z-5 (224) | 404-1278<br>Z-5 (224) | 404-1278<br>Z-5 (224) |
| PILOT JET                        | 45                     | 45                    | 404-1095<br>50        | 404-1095<br>50        | 404-1095<br>50        |
| NEEDLE                           | 7EG06                  | 7EG06                 | 7EG06                 | 7EG06                 | 7EG06                 |
| NEEDLE CLIP<br>POSITION FROM TOP | 2                      | 2                     | 3                     | 3                     | 3                     |
| SLIDE CUT-AWAY                   | 2.5                    | 2.5                   | 2.5                   | 2.5                   | 2.5                   |
| AIR SCREW                        | PTO 3/4<br>MAG 3/4     | PTO 3/4<br>MAG 3/4    | PTO 3/4<br>MAG 3/4    | PTO 3/4<br>MAG 3/4    | PTO 3/4<br>MAG 3/4    |
| IDLE SPEED (RPM)                 | 1800-2000              | 1800-2000             | 1600-1800             | 1600-1800             | 1600-1800             |

**DRIVE PULLEY**

|                               |                          |                         |                         |                         |                         |
|-------------------------------|--------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| RETURN SPRING                 | Blue-Blue<br>414 6894 00 | Yellow<br>414 8176 00   | Yellow<br>414 8176 00   | Yellow<br>414 8176 00   | Yellow<br>414 8176 00   |
| CENTRIFUGAL<br>LEVER ARM      | 420 4484 55              | 420 4484 55             | 420 4484 55             | 420 4484 55             | 420 4484 55             |
| CALIBRATION<br>WASHERS OR PIN | 420 4292 20<br>(solid)   | 420 4291 40<br>(hollow) | 420 4291 40<br>(hollow) | 420 4291 40<br>(hollow) | 420 4291 40<br>(hollow) |
| GOVERNOR CUP<br>OR RAMP       | 280<br>420 4802 80       | 228<br>420 4802 28      | 228<br>420 4802 28      | 228<br>420 4802 28      | 228<br>420 4802 28      |
| CALIBRATION<br>SCREW POSITION | 5                        | 3                       | 3                       | 4                       | 5                       |

**DRIVEN PULLEY**

|                      |                        |                         |                         |                         |                         |
|----------------------|------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| SPRING PRELOAD       | 9 lb $\pm \frac{3}{0}$ | 12 lb $\pm \frac{3}{0}$ | 12 lb $\pm \frac{3}{0}$ | 12 lb $\pm \frac{3}{0}$ | 12 lb $\pm \frac{3}{0}$ |
| CAM                  | 44°<br>504 1348 00     | 44°<br>504 1348 00      | 44°<br>504 1348 00      | 44°<br>504 1348 00      | 44°<br>504 1348 00      |
| CHAINCASE<br>GEARING | 26/44                  | 26/44                   | 26/44                   | 26/44                   | 26/44                   |

**SPECIAL SET-UP NOTES :**

High altitude kit available (P/N 861 7421 00).

## MAIN JET CHART

| <div style="display: flex; align-items: center; justify-content: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TEMPERATURE</div> <div style="text-align: right; padding-right: 10px;">°C<br/>(°F)</div> </div> |     | MAIN JET       |                |             |              |           |            |            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----------------|----------------|-------------|--------------|-----------|------------|------------|
|                                                                                                                                                                                                                                               |     | − 40<br>(− 40) | − 30<br>(− 20) | − 20<br>(0) | − 10<br>(14) | 0<br>(32) | 10<br>(50) | 20<br>(70) |
| ALTITUDE<br>METERS (FEET)                                                                                                                                                                                                                     |     |                |                |             |              |           |            |            |
|                                                                                                                                                                                                                                               |     |                |                |             |              |           |            |            |
| 0<br>Sea level                                                                                                                                                                                                                                | PTO | 400            | 380            | <b>370</b>  | 360          | 350       | 340        | 320        |
|                                                                                                                                                                                                                                               | MAG | 420            | 400            | <b>390</b>  | 380          | 370       | 360        | 340        |
| 1200<br>(4000)                                                                                                                                                                                                                                | PTO | 370            | 350            | <b>340</b>  | 330          | 320       | 310        | 290        |
|                                                                                                                                                                                                                                               | MAG | 390            | 370            | <b>360</b>  | 350          | 340       | 330        | 310        |
| 1800<br>(6000)                                                                                                                                                                                                                                | PTO | 340            | 320            | <b>310</b>  | 300          | 290       | 280        | 260        |
|                                                                                                                                                                                                                                               | MAG | 350            | 330            | <b>320</b>  | 310          | 300       | 290        | 270        |
| 2400<br>(8000)                                                                                                                                                                                                                                | PTO | 320            | 300            | <b>290</b>  | 280          | 270       | 260        | 240        |
|                                                                                                                                                                                                                                               | MAG | 330            | 310            | <b>300</b>  | 290          | 280       | 270        | 260        |
| 3000<br>(10000)                                                                                                                                                                                                                               | PTO | 300            | 280            | <b>270</b>  | 260          | 250       | 240        | 220        |
|                                                                                                                                                                                                                                               | MAG | 310            | 290            | <b>280</b>  | 270          | 260       | 250        | 230        |

 **CAUTION :** These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

| ALTITUDE | SEA<br>LEVEL | 4000 FT | 6000 FT | 8000 FT | 10,000 FT |
|----------|--------------|---------|---------|---------|-----------|
|----------|--------------|---------|---------|---------|-----------|

**CARBURETOR**

|                                  |                        |                        |                        |                        |                        |
|----------------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| MAIN JET                         | PTO 350<br>MAG 360     | PTO 310<br>MAG 320     | PTO 290<br>MAG 300     | PTO 270<br>MAG 280     | PTO 260<br>MAG 270     |
| NEEDLE JET                       | 480 P-4                | 480 P-4                | 480 P-2                | 480 P-2                | 480 P-2                |
| PILOT JET                        | 35                     | 35                     | 40                     | 40                     | 40                     |
| NEEDLE                           | 6DHN44                 | 6DHN44                 | 6DHN44                 | 6DHN44                 | 6DHN44                 |
| NEEDLE CLIP<br>POSITION FROM TOP | 2                      | 2                      | 2                      | 2                      | 2                      |
| SLIDE CUT-AWAY                   | 2.5                    | 2.5                    | 2.5                    | 2.5                    | 2.5                    |
| AIR SCREW                        | PTO 1-1/4<br>MAG 1-1/4 | PTO 1-1/2<br>MAG 1-1/2 | PTO 1-3/4<br>MAG 1-3/4 | PTO 1-3/4<br>MAG 1-3/4 | PTO 1-3/4<br>MAG 1-3/4 |
| IDLE SPEED (RPM)                 | 1800-2000              | 1800-2000              | 1600-1800              | 1600-1800              | 1600-1800              |

**DRIVE PULLEY**

|                               |                            |                         |                         |                         |                         |
|-------------------------------|----------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| RETURN SPRING                 | Blue-Orange<br>414 6390 00 | White<br>414 6056 00    | White<br>414 6056 00    | White<br>414 6056 00    | White<br>414 6056 00    |
| CENTRIFUGAL<br>LEVER ARM      | 420 4484 55                | 420 4484 55             | 420 4484 55             | 420 4484 55             | 420 4484 55             |
| CALIBRATION<br>WASHERS OR PIN | 420 4292 20<br>(solid)     | 420 4291 40<br>(hollow) | 420 4291 40<br>(hollow) | 420 4291 40<br>(hollow) | 420 4291 40<br>(hollow) |
| GOVERNOR CUP<br>OR RAMP       | 228<br>420 4802 28         | 228<br>420 4802 28      | 228<br>420 4802 28      | 228<br>420 4802 28      | 228<br>420 4802 28      |
| CALIBRATION<br>SCREW POSITION | 3                          | 3                       | 3                       | 4                       | 4                       |

**DRIVEN PULLEY**

|                      |                        |                        |                        |                        |                        |
|----------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| SPRING PRELOAD       | 9 lb $\pm \frac{3}{0}$ | 9 lb $\pm \frac{3}{0}$ | 9 lb $\pm \frac{3}{0}$ | 9 lb $\pm \frac{3}{0}$ | 9 lb $\pm \frac{3}{0}$ |
| CAM                  | 44°<br>504 1348 00     | 44°<br>504 1348 00     | 44°<br>504 1348 00     | 44°<br>504 1348 00     | 44°<br>504 1348 00     |
| CHAINCASE<br>GEARING | 23/44                  | 23/44                  | 23/44                  | 23/44                  | 23/44                  |

**SPECIAL SET-UP NOTES :**

High altitude kit available (P/N 861 7422 00).

## MAIN JET CHART

| <div style="display: flex; align-items: center; justify-content: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TEMPERATURE</div> <div style="text-align: right;">°C<br/>(°F)</div> </div> |                | MAIN JET       |                |             |              |           |            |            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|----------------|-------------|--------------|-----------|------------|------------|
|                                                                                                                                                                                                                          |                | − 40<br>(− 40) | − 30<br>(− 20) | − 20<br>(0) | − 10<br>(14) | 0<br>(32) | 10<br>(50) | 20<br>(70) |
| ALTITUDE<br>METERS (FEET)                                                                                                                                                                                                | 0<br>Sea level | PTO 380        | 360            | <b>350</b>  | 340          | 330       | 320        | 310        |
|                                                                                                                                                                                                                          | MAG            | 390            | 370            | <b>360</b>  | 350          | 340       | 330        | 320        |
| 1200<br>(4000)                                                                                                                                                                                                           | PTO            | 340            | 320            | <b>310</b>  | 300          | 290       | 280        | 270        |
|                                                                                                                                                                                                                          | MAG            | 350            | 330            | <b>320</b>  | 310          | 300       | 290        | 280        |
| 1800<br>(6000)                                                                                                                                                                                                           | PTO            | 320            | 310            | <b>290</b>  | 280          | 270       | 260        | 250        |
|                                                                                                                                                                                                                          | MAG            | 330            | 320            | <b>300</b>  | 290          | 280       | 270        | 260        |
| 2400<br>(8000)                                                                                                                                                                                                           | PTO            | 300            | 290            | <b>270</b>  | 260          | 250       | 240        | 230        |
|                                                                                                                                                                                                                          | MAG            | 310            | 300            | <b>280</b>  | 270          | 260       | 250        | 240        |
| 3000<br>(10000)                                                                                                                                                                                                          | PTO            | 280            | 270            | <b>260</b>  | 250          | 240       | 220        | 210        |
|                                                                                                                                                                                                                          | MAG            | 290            | 280            | <b>270</b>  | 260          | 250       | 230        | 220        |

 **CAUTION :** These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

# MX, FORMULA ST

1994

| ALTITUDE | SEA<br>LEVEL | 4000 FT | 6000 FT | 8000 FT | 10,000 FT |
|----------|--------------|---------|---------|---------|-----------|
|----------|--------------|---------|---------|---------|-----------|

**CARBURETOR**

|                                  |                    |                    |                    |                    |                    |
|----------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| MAIN JET                         | PTO 290<br>MAG 280 | PTO 260<br>MAG 250 | PTO 220<br>MAG 220 | PTO 210<br>MAG 210 | PTO 200<br>MAG 200 |
| NEEDLE JET                       | 159 N-4            | 159 N-4            | 159 N-2            | 159 N-2            | 159 N-2            |
| PILOT JET                        | 35                 | 40                 | 45                 | 50                 | 50                 |
| NEEDLE                           | 6DHN43             | 6DHN43             | 6DHN43             | 6DHN43             | 6DHN43             |
| NEEDLE CLIP<br>POSITION FROM TOP | 3                  | 3                  | 2                  | 2                  | 2                  |
| SLIDE CUT-AWAY                   | 2.5                | 2.5                | 2.5                | 2.5                | 2.5                |
| AIR SCREW                        | PTO 3/4<br>MAG 3/4 | PTO 3/4<br>MAG 3/4 | PTO 1<br>MAG 3/4   | PTO 1<br>MAG 3/4   | PTO 1<br>MAG 3/4   |
| IDLE SPEED (RPM)                 | 1600-1800          | 1600-1800          | 1800-2000          | 1800-2000          | 1800-2000          |

**DRIVE PULLEY**

|                               |                         |                              |                              |                              |                              |
|-------------------------------|-------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| RETURN SPRING                 | Blue<br>420 4381 92     | Purple-Purple<br>414 8179 00 | Purple-Purple<br>414 8179 00 | Purple-Purple<br>414 8179 00 | Purple-Purple<br>414 8179 00 |
| CENTRIFUGAL<br>LEVER ARM      | 420 4484 55             | 420 4484 55                  | 420 4484 55                  | 420 4484 55                  | 420 4484 55                  |
| CALIBRATION<br>WASHERS OR PIN | 420 4292 20<br>(hollow) | 420 4291 40<br>(hollow)      | 420 4291 40<br>(hollow)      | 420 4291 40<br>(hollow)      | 420 4291 40<br>(hollow)      |
| GOVERNOR CUP<br>OR RAMP       | 228<br>420 4802 28      | 227<br>420 4802 27           | 227<br>420 4802 27           | 227<br>420 4802 27           | 227<br>420 4802 27           |
| CALIBRATION<br>SCREW POSITION | 4                       | 2                            | 3                            | 3                            | 4                            |

**DRIVEN PULLEY**

|                      |                        |                         |                         |                         |                         |
|----------------------|------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| SPRING PRELOAD       | 9 lb $\pm \frac{3}{0}$ | 12 lb $\pm \frac{3}{0}$ | 12 lb $\pm \frac{3}{0}$ | 12 lb $\pm \frac{3}{0}$ | 12 lb $\pm \frac{3}{0}$ |
| CAM                  | 40°<br>504 0921 00     | 44°<br>504 0913 00      | 44°<br>504 0913 00      | 44°<br>504 0913 00      | 44°<br>504 0913 00      |
| CHAINCASE<br>GEARING | 23/44                  | 23/44                   | 23/44                   | 23/44                   | 23/44                   |

**SPECIAL SET-UP NOTES :**

High altitude kit available (P/N 861 7420 00).

## MAIN JET CHART

| <div style="display: flex; align-items: center; justify-content: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TEMPERATURE</div> <div style="text-align: right;">°C<br/>(°F)</div> </div> |     | MAIN JET       |                |             |              |           |            |            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----------------|----------------|-------------|--------------|-----------|------------|------------|
|                                                                                                                                                                                                                          |     | − 40<br>(− 40) | − 30<br>(− 20) | − 20<br>(0) | − 10<br>(14) | 0<br>(32) | 10<br>(50) | 20<br>(70) |
| ALTITUDE<br>METERS (FEET)                                                                                                                                                                                                |     |                |                |             |              |           |            |            |
|                                                                                                                                                                                                                          |     |                |                |             |              |           |            |            |
| 0<br>Sea level                                                                                                                                                                                                           | PTO | 310            | 300            | <b>290</b>  | 280          | 270       | 260        | 250        |
|                                                                                                                                                                                                                          | MAG | 300            | 290            | <b>280</b>  | 270          | 260       | 250        | 240        |
| 1200<br>(4000)                                                                                                                                                                                                           | PTO | 280            | 270            | <b>260</b>  | 250          | 240       | 230        | 220        |
|                                                                                                                                                                                                                          | MAG | 270            | 260            | <b>250</b>  | 240          | 230       | 220        | 210        |
| 1800<br>(6000)                                                                                                                                                                                                           | PTO | 240            | 230            | <b>220</b>  | 210          | 200       | 195        | 185        |
|                                                                                                                                                                                                                          | MAG | 240            | 230            | <b>220</b>  | 210          | 200       | 195        | 185        |
| 2400<br>(8000)                                                                                                                                                                                                           | PTO | 230            | 220            | <b>210</b>  | 200          | 190       | 185        | 175        |
|                                                                                                                                                                                                                          | MAG | 230            | 220            | <b>210</b>  | 200          | 190       | 185        | 175        |
| 3000<br>(10000)                                                                                                                                                                                                          | PTO | 220            | 210            | <b>200</b>  | 190          | 185       | 175        | 165        |
|                                                                                                                                                                                                                          | MAG | 220            | 210            | <b>200</b>  | 190          | 185       | 175        | 165        |

 **CAUTION :** These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

MODEL 3873, 3874  
**FORMULA STX/STX (2)**

**1994**

| ALTITUDE | SEA<br>LEVEL | 4000 FT | 6000 FT | 8000 FT | 10,000 FT |
|----------|--------------|---------|---------|---------|-----------|
|----------|--------------|---------|---------|---------|-----------|

**CARBURETOR**

|                                  |                    |                       |                       |                       |                       |
|----------------------------------|--------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| MAIN JET                         | PTO 340<br>MAG 350 | PTO 280<br>MAG 290    | PTO 250<br>MAG 270    | PTO 230<br>MAG 250    | PTO 210<br>MAG 230    |
| NEEDLE JET                       | P-6 (480)          | 404-1312<br>P-2 (480) | 404-1486<br>O-8 (480) | 404-1485<br>O-6 (480) | 404-1485<br>O-6 (480) |
| PILOT JET                        | 35                 | 404-1091<br>40        | 404-1094<br>45        | 404-1095<br>50        | 404-1095<br>50        |
| NEEDLE                           | 6DHN43             | 6DHN43                | 6DHN43                | 6DHN43                | 6DHN43                |
| NEEDLE CLIP<br>POSITION FROM TOP | 2                  | 2                     | 2                     | 2                     | 2                     |
| SLIDE CUT-AWAY                   | 2.5                | 2.5                   | 2.5                   | 2.5                   | 2.5                   |
| AIR SCREW                        | PTO 1<br>MAG 1     | PTO 1-1/4<br>MAG 1    | PTO 1-1/2<br>MAG 1    | PTO 1-1/2<br>MAG 1    | PTO 1-1/2<br>MAG 1    |
| IDLE SPEED (RPM)                 | 1800-2000          | 1800-2000             | 1800-2000             | 1800-2000             | 1800-2000             |

**DRIVE PULLEY**

|                               |                           |                              |                              |                              |                              |
|-------------------------------|---------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| RETURN SPRING                 | Blue-Green<br>414 8177 00 | Purple-Purple<br>414 8179 00 | Purple-Purple<br>414 8179 00 | Purple-Purple<br>414 8179 00 | Purple-Purple<br>414 8179 00 |
| CENTRIFUGAL<br>LEVER ARM      | 420 4484 55               | 420 4484 55                  | 420 4484 55                  | 420 4484 55                  | 420 4484 55                  |
| CALIBRATION<br>WASHERS OR PIN | 420 4291 40<br>(hollow)   | 420 4291 40<br>(hollow)      | 420 4291 40<br>(hollow)      | 420 4291 40<br>(hollow)      | 420 4291 40<br>(hollow)      |
| GOVERNOR CUP<br>OR RAMP       | 228<br>420 4802 28        | 228<br>420 4802 28           | 228<br>420 4802 28           | 228<br>420 4802 28           | 228<br>420 4802 28           |
| CALIBRATION<br>SCREW POSITION | 3                         | 3                            | 4                            | 4                            | 5                            |

**DRIVEN PULLEY**

|                      |                         |                         |                         |                         |                         |
|----------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| SPRING PRELOAD       | 12 lb $\pm \frac{3}{0}$ | 12 lb $\pm \frac{3}{0}$ | 12 lb $\pm \frac{3}{0}$ | 12 lb $\pm \frac{3}{0}$ | 12 lb $\pm \frac{3}{0}$ |
| CAM                  | 50°<br>504 1401 00      | 44°<br>504 0913 00      | 44°<br>504 0913 00      | 44°<br>504 0913 00      | 44°<br>504 0913 00      |
| CHAINCASE<br>GEARING | 25/44                   | 25/44                   | 25/44                   | 25/44                   | 25/44                   |

**SPECIAL SET-UP NOTES :**

High altitude kit available (P/N 861 7418 00).

## MAIN JET CHART

| <div style="display: flex; align-items: center; justify-content: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TEMPERATURE</div> <div style="text-align: right;">°C<br/>(°F)</div> </div> |     | MAIN JET       |                |             |              |           |            |            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----------------|----------------|-------------|--------------|-----------|------------|------------|
|                                                                                                                                                                                                                          |     | − 40<br>(− 40) | − 30<br>(− 20) | − 20<br>(0) | − 10<br>(14) | 0<br>(32) | 10<br>(50) | 20<br>(70) |
| ALTITUDE<br>METERS (FEET)                                                                                                                                                                                                |     |                |                |             |              |           |            |            |
|                                                                                                                                                                                                                          |     |                |                |             |              |           |            |            |
| 0<br>Sea level                                                                                                                                                                                                           | PTO | 360            | 350            | <b>340</b>  | 330          | 320       | 310        | 300        |
|                                                                                                                                                                                                                          | MAG | 370            | 360            | <b>350</b>  | 340          | 330       | 320        | 310        |
| 1200<br>(4000)                                                                                                                                                                                                           | PTO | 300            | 290            | <b>280</b>  | 270          | 260       | 250        | 240        |
|                                                                                                                                                                                                                          | MAG | 310            | 300            | <b>290</b>  | 280          | 270       | 260        | 250        |
| 1800<br>(6000)                                                                                                                                                                                                           | PTO | 270            | 260            | <b>250</b>  | 240          | 230       | 220        | 210        |
|                                                                                                                                                                                                                          | MAG | 290            | 280            | <b>270</b>  | 260          | 250       | 240        | 230        |
| 2400<br>(8000)                                                                                                                                                                                                           | PTO | 250            | 240            | <b>230</b>  | 220          | 210       | 200        | 190        |
|                                                                                                                                                                                                                          | MAG | 270            | 260            | <b>250</b>  | 240          | 230       | 220        | 210        |
| 3000<br>(10000)                                                                                                                                                                                                          | PTO | 240            | 220            | <b>210</b>  | 200          | 195       | 190        | 185        |
|                                                                                                                                                                                                                          | MAG | 260            | 240            | <b>230</b>  | 220          | 215       | 210        | 205        |

 **CAUTION :** These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

MODEL 3875  
**FORMULA Z**

**1994**

| ALTITUDE | SEA<br>LEVEL | 4000 FT | 6000 FT | 8000 FT | 10,000 FT |
|----------|--------------|---------|---------|---------|-----------|
|----------|--------------|---------|---------|---------|-----------|

**CARBURETOR**

|                                  |                    |                    |                    |                    |                    |
|----------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| MAIN JET                         | PTO 360<br>MAG 360 | PTO 320<br>MAG 320 | PTO 290<br>MAG 300 | PTO 270<br>MAG 280 | PTO 250<br>MAG 260 |
| NEEDLE JET                       | AA-6 (224)         | AA-4 (224)         | AA-2 (224)         | AA-0 (224)         | AA-0 (224)         |
| PILOT JET                        | 50                 | 55                 | 60                 | 60                 | 60                 |
| NEEDLE                           | 7DL07              | 7DL07              | 7DL07              | 7DL07              | 7DL07              |
| NEEDLE CLIP<br>POSITION FROM TOP | 3                  | 3                  | 3                  | 3                  | 3                  |
| SLIDE CUT-AWAY                   | 2.5                | 2.5                | 2.5                | 2.5                | 2.5                |
| AIR SCREW                        | PTO 3/4<br>MAG 3/4 | PTO 7/8<br>MAG 7/8 | PTO 1<br>MAG 1     | PTO 1<br>MAG 1     | PTO 1<br>MAG 1     |
| IDLE SPEED (RPM)                 | 1800-2000          | 1800-2000          | 1800-2000          | 1800-2000          | 1800-2000          |

**DRIVE PULLEY**

|                               |                         |                              |                              |                              |                              |
|-------------------------------|-------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| RETURN SPRING                 | Yellow<br>414 8176 00   | Purple-Purple<br>414 8179 00 | Purple-Purple<br>414 8179 00 | Purple-Purple<br>414 8179 00 | Purple-Purple<br>414 8179 00 |
| CENTRIFUGAL<br>LEVER ARM      | 420 4484 00             | 420 4484 00                  | 420 4484 00                  | 420 4484 00                  | 420 4484 00                  |
| CALIBRATION<br>WASHERS OR PIN | 420 4291 40<br>(hollow) | 420 4291 40<br>(hollow)      | 420 4291 40<br>(hollow)      | 420 4291 40<br>(hollow)      | 420 4291 40<br>(hollow)      |
| GOVERNOR CUP<br>OR RAMP       | 228<br>420 4802 28      | 228<br>420 4802 28           | 228<br>420 4802 28           | 228<br>420 4802 28           | 228<br>420 4802 28           |
| CALIBRATION<br>SCREW POSITION | 3                       | 3                            | 4                            | 4                            | 5                            |

**DRIVEN PULLEY**

|                      |                         |                         |                         |                         |                         |
|----------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| SPRING PRELOAD       | 12 lb $\pm \frac{3}{0}$ | 12 lb $\pm \frac{3}{0}$ | 12 lb $\pm \frac{3}{0}$ | 12 lb $\pm \frac{3}{0}$ | 12 lb $\pm \frac{3}{0}$ |
| CAM                  | 50°<br>504 1401 00      | 44°<br>504 0913 00      | 44°<br>504 0913 00      | 44°<br>504 0913 00      | 44°<br>504 0913 00      |
| CHAINCASE<br>GEARING | 25/44                   | 25/44                   | 25/44                   | 25/44                   | 25/44                   |

**SPECIAL SET-UP NOTES :**

High altitude kit available (P/N 861 7417 00).

## MAIN JET CHART

| <div>TEMPERATURE</div> <div>°C<br/>(°F)</div> <div>ALTITUDE<br/>METERS (FEET)</div> |     | MAIN JET        |                 |             |              |           |            |            |
|-------------------------------------------------------------------------------------|-----|-----------------|-----------------|-------------|--------------|-----------|------------|------------|
|                                                                                     |     | − 40<br>( − 40) | − 30<br>( − 20) | − 20<br>(0) | − 10<br>(14) | 0<br>(32) | 10<br>(50) | 20<br>(70) |
| 0<br>Sea level                                                                      | PTO | 390             | 370             | <b>360</b>  | 350          | 340       | 330        | 310        |
|                                                                                     | MAG | 390             | 370             | <b>360</b>  | 350          | 340       | 330        | 310        |
| 1200<br>(4000)                                                                      | PTO | 350             | 330             | <b>320</b>  | 310          | 300       | 290        | 270        |
|                                                                                     | MAG | 350             | 330             | <b>320</b>  | 310          | 300       | 290        | 270        |
| 1800<br>(6000)                                                                      | PTO | 320             | 300             | <b>290</b>  | 280          | 270       | 260        | 250        |
|                                                                                     | MAG | 330             | 310             | <b>300</b>  | 290          | 280       | 270        | 260        |
| 2400<br>(8000)                                                                      | PTO | 300             | 280             | <b>270</b>  | 260          | 250       | 240        | 220        |
|                                                                                     | MAG | 310             | 290             | <b>280</b>  | 270          | 260       | 250        | 230        |
| 3000<br>(10000)                                                                     | PTO | 280             | 260             | <b>250</b>  | 240          | 230       | 220        | 210        |
|                                                                                     | MAG | 290             | 270             | <b>260</b>  | 250          | 240       | 230        | 220        |

 **CAUTION :** These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

| ALTITUDE | SEA<br>LEVEL | 4000 FT | 6000 FT | 8000 FT | 10,000 FT |
|----------|--------------|---------|---------|---------|-----------|
|----------|--------------|---------|---------|---------|-----------|

**CARBURETOR**

|                                  |                    |                    |                    |                    |                    |
|----------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| MAIN JET                         | PTO 290<br>MAG 280 | PTO 260<br>MAG 250 | PTO 220<br>MAG 220 | PTO 210<br>MAG 210 | PTO 200<br>MAG 200 |
| NEEDLE JET                       | 159 N-4            | 159 N-4            | 159 N-2            | 159 N-2            | 159 N-2            |
| PILOT JET                        | 35                 | 40                 | 45                 | 50                 | 50                 |
| NEEDLE                           | 6DHN44             | 6DHN44             | 6DHN44             | 6DHN44             | 6DHN44             |
| NEEDLE CLIP<br>POSITION FROM TOP | 3                  | 3                  | 3                  | 3                  | 3                  |
| SLIDE CUT-AWAY                   | 2.5                | 2.5                | 2.5                | 2.5                | 2.5                |
| AIR SCREW                        | PTO 3/4<br>MAG 3/4 | PTO 3/4<br>MAG 3/4 | PTO 1<br>MAG 3/4   | PTO 1<br>MAG 3/4   | PTO 1<br>MAG 3/4   |
| IDLE SPEED (RPM)                 | 1600-1800          | 1600-1800          | 1800-2000          | 1800-2000          | 1800-2000          |

**DRIVE PULLEY**

|                               |                            |                              |                              |                              |                              |
|-------------------------------|----------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| RETURN SPRING                 | Blue-Yellow<br>414 6895 00 | Purple-Purple<br>414 8179 00 | Purple-Purple<br>414 8179 00 | Purple-Purple<br>414 8179 00 | Purple-Purple<br>414 8179 00 |
| CENTRIFUGAL<br>LEVER ARM      | 420 4484 55                | 420 4484 55                  | 420 4484 55                  | 420 4484 55                  | 420 4484 55                  |
| CALIBRATION<br>WASHERS OR PIN | 420 4291 40<br>(hollow)    | 420 4291 40<br>(hollow)      | 420 4291 40<br>(hollow)      | 420 4291 40<br>(hollow)      | 420 4291 40<br>(hollow)      |
| GOVERNOR CUP<br>OR RAMP       | 228<br>420 4802 28         | 227<br>420 4802 27           | 227<br>420 4802 27           | 227<br>420 4802 27           | 227<br>420 4802 27           |
| CALIBRATION<br>SCREW POSITION | 4                          | 2                            | 3                            | 3                            | 4                            |

**DRIVEN PULLEY**

|                      |                         |                         |                         |                         |                         |
|----------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| SPRING PRELOAD       | 12 lb $\pm \frac{3}{0}$ | 12 lb $\pm \frac{3}{0}$ | 12 lb $\pm \frac{3}{0}$ | 12 lb $\pm \frac{3}{0}$ | 12 lb $\pm \frac{3}{0}$ |
| CAM                  | 44°<br>504 0913 00      | 44°<br>504 0913 00      | 44°<br>504 0913 00      | 44°<br>504 0913 00      | 44°<br>504 0913 00      |
| CHAINCASE<br>GEARING | 23/44                   | 23/44                   | 23/44                   | 23/44                   | 23/44                   |

**SPECIAL SET-UP NOTES :**

High altitude kit available (P/N 861 7420 00).

## MAIN JET CHART

| <div style="display: flex; align-items: center; justify-content: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TEMPERATURE</div> <div style="text-align: right;">°C<br/>(°F)</div> </div> |                | MAIN JET       |                |             |              |           |            |            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|----------------|-------------|--------------|-----------|------------|------------|
|                                                                                                                                                                                                                          |                | − 40<br>(− 40) | − 30<br>(− 20) | − 20<br>(0) | − 10<br>(14) | 0<br>(32) | 10<br>(50) | 20<br>(70) |
| ALTITUDE<br>METERS (FEET)                                                                                                                                                                                                | 0<br>Sea level | PTO 310        | 300            | <b>290</b>  | 280          | 270       | 260        | 250        |
|                                                                                                                                                                                                                          | MAG            | 300            | 290            | <b>280</b>  | 270          | 260       | 250        | 240        |
| 1200<br>(4000)                                                                                                                                                                                                           | PTO            | 280            | 270            | <b>260</b>  | 250          | 240       | 230        | 220        |
|                                                                                                                                                                                                                          | MAG            | 270            | 260            | <b>250</b>  | 240          | 230       | 220        | 210        |
| 1800<br>(6000)                                                                                                                                                                                                           | PTO            | 240            | 230            | <b>220</b>  | 210          | 200       | 195        | 185        |
|                                                                                                                                                                                                                          | MAG            | 240            | 230            | <b>220</b>  | 210          | 200       | 195        | 185        |
| 2400<br>(8000)                                                                                                                                                                                                           | PTO            | 230            | 220            | <b>210</b>  | 200          | 190       | 185        | 175        |
|                                                                                                                                                                                                                          | MAG            | 230            | 220            | <b>210</b>  | 200          | 190       | 185        | 175        |
| 3000<br>(10000)                                                                                                                                                                                                          | PTO            | 220            | 210            | <b>200</b>  | 190          | 185       | 175        | 165        |
|                                                                                                                                                                                                                          | MAG            | 220            | 210            | <b>200</b>  | 190          | 185       | 175        | 165        |

 **CAUTION :** These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

| ALTITUDE | SEA<br>LEVEL | 4000 FT | 6000 FT | 8000 FT | 10,000 FT |
|----------|--------------|---------|---------|---------|-----------|
|----------|--------------|---------|---------|---------|-----------|

**CARBURETOR**

|                                  |                        |                        |                        |                        |                        |
|----------------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| MAIN JET                         | PTO 380<br>MAG 400     | PTO 380<br>MAG 400     | PTO 380<br>MAG 400     | PTO 380<br>MAG 400     | PTO 380<br>MAG 400     |
| NEEDLE JET                       | 159-02                 | 159-02                 | 159-02                 | 159-02                 | 159-02                 |
| PILOT JET                        | 75                     | 75                     | 75                     | 75                     | 75                     |
| NEEDLE                           | 6FL14                  | 6FL14                  | 6FL14                  | 6FL14                  | 6FL14                  |
| NEEDLE CLIP<br>POSITION FROM TOP | 3                      | 3                      | 3                      | 3                      | 3                      |
| SLIDE CUT-AWAY                   | 2.5                    | 2.5                    | 2.5                    | 2.5                    | 2.5                    |
| AIR SCREW                        | PTO 1-5/8<br>MAG 1-5/8 | PTO 1-5/8<br>MAG 1-5/8 | PTO 1-5/8<br>MAG 1-5/8 | PTO 1-5/8<br>MAG 1-5/8 | PTO 1-5/8<br>MAG 1-5/8 |
| IDLE SPEED (RPM)                 | 1500-1700              | 1500-1700              | 1500-1700              | 1500-1700              | 1500-1700              |

**DRIVE PULLEY**

|                               |                            |                              |                              |                              |                              |
|-------------------------------|----------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| RETURN SPRING                 | Blue-Yellow<br>414 6895 00 | Purple-Purple<br>414 8179 00 | Purple-Purple<br>414 8179 00 | Purple-Purple<br>414 8179 00 | Purple-Purple<br>414 8179 00 |
| CENTRIFUGAL<br>LEVER ARM      | 420 4484 55                | 420 4484 55                  | 420 4484 55                  | 420 4484 55                  | 420 4484 55                  |
| CALIBRATION<br>WASHERS OR PIN | 420 4291 40<br>(hollow)    | 420 4291 40<br>(hollow)      | 420 4291 40<br>(hollow)      | 420 4291 40<br>(hollow)      | 420 4291 40<br>(hollow)      |
| GOVERNOR CUP<br>OR RAMP       | 228<br>420 4802 28         | 227<br>420 4802 27           | 227<br>420 4802 27           | 227<br>420 4802 27           | 227<br>420 4802 27           |
| CALIBRATION<br>SCREW POSITION | 4                          | 2                            | 3                            | 4                            | 4                            |

**DRIVEN PULLEY**

|                      |                         |                         |                         |                         |                         |
|----------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| SPRING PRELOAD       | 12 lb $\pm \frac{3}{0}$ | 12 lb $\pm \frac{3}{0}$ | 12 lb $\pm \frac{3}{0}$ | 12 lb $\pm \frac{3}{0}$ | 12 lb $\pm \frac{3}{0}$ |
| CAM                  | 44°<br>504 0913 00      | 44°<br>504 0913 00      | 44°<br>504 0913 00      | 44°<br>504 0913 00      | 44°<br>504 0913 00      |
| CHAINCASE<br>GEARING | 22/44                   | 22/44                   | 22/44                   | 22/44                   | 22/44                   |

**SPECIAL SET-UP NOTES :**

Sea Level kit available (P/N 861 7423 00).

There is no need to adjust the carburetors. The Summit family is equip with a HAC system that provide to it.

**1994**

MODEL 3876  
**SUMMIT 583**

**SEA  
LEVEL**

| ALTITUDE | SEA<br>LEVEL | 4000 FT | 6000 FT | 8000 FT | 10,000 FT |
|----------|--------------|---------|---------|---------|-----------|
|----------|--------------|---------|---------|---------|-----------|

**CARBURETOR**

|                                  |                      |                      |                      |                      |                      |
|----------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| MAIN JET                         | PTO 490<br>MAG 490   | PTO 490<br>MAG 490   | PTO 490<br>MAG 490   | PTO 490<br>MAG 490   | PTO 490<br>MAG 490   |
| NEEDLE JET                       | Q-4 (480)            | Q-4 (480)            | Q-4 (480)            | Q-4 (480)            | Q-4 (480)            |
| PILOT JET                        | 75                   | 75                   | 75                   | 75                   | 75                   |
| NEEDLE                           | 6FL14                | 6FL14                | 6FL14                | 6FL14                | 6FL14                |
| NEEDLE CLIP<br>POSITION FROM TOP | 3                    | 3                    | 3                    | 3                    | 3                    |
| SLIDE CUT-AWAY                   | 2.5                  | 2.5                  | 2.5                  | 2.5                  | 2.5                  |
| AIR SCREW                        | PTO 2.25<br>MAG 2.25 | PTO 2.25<br>MAG 2.25 | PTO 2.25<br>MAG 2.25 | PTO 2.25<br>MAG 2.25 | PTO 2.25<br>MAG 2.25 |
| IDLE SPEED (RPM)                 | 1800-2000            | 1800-2000            | 1800-2000            | 1800-2000            | 1800-2000            |

**DRIVE PULLEY**

|                               |                           |                              |                              |                              |                              |
|-------------------------------|---------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| RETURN SPRING                 | Blue-Green<br>414 8177 00 | Purple-Purple<br>414 8179 00 | Purple-Purple<br>414 8179 00 | Purple-Purple<br>414 8179 00 | Purple-Purple<br>414 8179 00 |
| CENTRIFUGAL<br>LEVER ARM      | 420 4484 55               | 420 4484 55                  | 420 4484 55                  | 420 4484 55                  | 420 4484 55                  |
| CALIBRATION<br>WASHERS OR PIN | 420 4291 40<br>(hollow)   | 420 4291 40<br>(hollow)      | 420 4291 40<br>(hollow)      | 420 4291 40<br>(hollow)      | 420 4291 40<br>(hollow)      |
| GOVERNOR CUP<br>OR RAMP       | 228<br>420 4802 28        | 228<br>420 4802 28           | 228<br>420 4802 28           | 228<br>420 4802 28           | 228<br>420 4802 28           |
| CALIBRATION<br>SCREW POSITION | 3                         | 3                            | 4                            | 4                            | 5                            |

**DRIVEN PULLEY**

|                      |                         |                         |                         |                         |                         |
|----------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| SPRING PRELOAD       | 12 lb $\pm \frac{3}{0}$ | 12 lb $\pm \frac{3}{0}$ | 12 lb $\pm \frac{3}{0}$ | 12 lb $\pm \frac{3}{0}$ | 12 lb $\pm \frac{3}{0}$ |
| CAM                  | 44°<br>504 0960 00      | 44°<br>504 0960 00      | 44°<br>504 0960 00      | 44°<br>504 0960 00      | 44°<br>504 0960 00      |
| CHAINCASE<br>GEARING | 23/44                   | 23/44                   | 23/44                   | 23/44                   | 23/44                   |

**SPECIAL SET-UP NOTES :**

Sea Level kit available (P/N 861 7424 00).

There is no need to adjust the carburetors. The Summit family is equip with a HAC system that provide to it.

# HIGH ALTITUDE TECHNICAL DATA - 1995 MODELS

1995-ÉLAN

## HIGH ALTITUDE KIT (P/N 861 7399 00)

### CARBURETOR

| <div>Altitude</div> <div>Calibration</div> | SEA LEVEL | 4000 FT   | 6000 FT   | 8000 FT   | 10 000 FT |
|--------------------------------------------|-----------|-----------|-----------|-----------|-----------|
| Main jet                                   | 160       | 145       | 135       | 125       | 120       |
| Needle jet                                 | 182 O-8   | 182 O-8   | 182 O-8   | 182 O-8   | 182 O-8   |
| Pilot jet                                  | 30        | 30        | 30        | 30        | 30        |
| Needle                                     | 6DP1      | 6DP1      | 6DP1      | 6DP1      | 6DP1      |
| Needle clip position from top              | 3         | 3         | 3         | 3         | 3         |
| Slide cutaway                              | 2.0       | 2.0       | 2.0       | 2.0       | 2.0       |
| Air screw                                  | 1-1/2     | 1-1/2     | 1-1/2     | 1-1/2     | 1-1/2     |
| Idle speed (RPM)                           | 1100-1300 | 1100-1300 | 1100-1300 | 1100-1300 | 1100-1300 |

### DRIVE PULLEY

| <div>Altitude</div> <div>Clutching</div> | SEA LEVEL                | 4000 FT                  | 6000 FT                  | 8000 FT                  | 10 000 FT                |
|------------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Return spring                            | Blue/Blue<br>417 1150 00 | Blue/Blue<br>417 1150 00 | Blue/Blue<br>417 1150 00 | Blue/Blue<br>417 1150 00 | Blue/Blue<br>417 1150 00 |
| Block                                    | 417 1143 00<br>Std       | 417 1143 00<br>Std       | 417 1143 00<br>Std       | 417 1143 00<br>Std       | 417 1143 00<br>Std       |
| Weight                                   | 417 1144 00<br>6         | 417 1144 00<br>6         | 417 1144 00<br>6         | 417 1144 00<br>6         | 417 1144 00<br>6         |
| Capsule                                  | 417 1145 00<br>Std       | 417 1145 00<br>Std       | 417 1145 00<br>Std       | 417 1145 00<br>Std       | 417 1145 00<br>Std       |
| Calibration screw position               | N/A                      | N/A                      | N/A                      | N/A                      | N/A                      |

### DRIVEN PULLEY

| <div>Altitude</div> <div>Gearing</div> | SEA LEVEL                   | 4000 FT                     | 6000 FT                     | 8000 FT                     | 10 000 FT                   |
|----------------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Spring preload                         | 8 lb ± 1.5                  | 10 lb ± 1.5                 | 10 lb ± 1.5                 | 10 lb ± 1.5                 | 10 lb ± 1.5                 |
| Cam                                    | 40.4°<br>Std<br>504 1029 00 | 40.4°<br>Std<br>504 1029 00 | 40.4°<br>Std<br>504 1029 00 | 40.4°<br>Std<br>504 1029 00 | 40.4°<br>Std<br>504 1029 00 |
| Chaincase gearing                      | 10/25                       | 10/25                       | 10/25                       | 10/25                       | 10/25                       |

SPECIAL SET-UP NOTES:

**CAUTION**

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

**MAIN JET CHART**

| Altitude<br>Temperature | Sea<br>Level | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft |
|-------------------------|--------------|-------------------|-------------------|-------------------|--------------------|
| - 40°C<br>- 40°F        | 170          | 155               | 145               | 140               | 130                |
| - 30°C<br>- 20°F        | 165          | 150               | 140               | 130               | 125                |
| <b>- 20°C<br/>- 4°F</b> | <b>160</b>   | <b>145</b>        | <b>135</b>        | <b>125</b>        | <b>120</b>         |
| - 10°C<br>14°F          | 155          | 140               | 130               | 120               | 115                |
| 0°C<br>32°F             | 150          | 135               | 125               | 115               | 110                |
| 10°C<br>50°F            | 145          | 130               | 120               | 110               | 105                |
| 20°C<br>70°F            | 140          | 125               | 115               | 105               | 100                |

# 1995- TUNDRA II LT

## HIGH ALTITUDE KIT (P/N 861 7434 00)

### CARBURETOR

| <b>Altitude</b><br><b>Calibration</b> | <b>SEA LEVEL</b> | <b>4000 FT</b> | <b>6000 FT</b> | <b>8000 FT</b> | <b>10 000 FT</b> |
|---------------------------------------|------------------|----------------|----------------|----------------|------------------|
| Main jet                              | 190              | 175            | 140            | 130            | 125              |
| Needle jet                            | 159 O-8          | 159 O-8        | 159 O-8        | 159 O-8        | 159 O-8          |
| Pilot jet                             | 40               | 40             | 35             | 35             | 35               |
| Needle                                | 6DH4             | 6DH4           | 6DH4           | 6DH4           | 6DH4             |
| Needle clip position from top         | 2                | 2              | 2              | 2              | 2                |
| Slide cutaway                         | 2.5              | 2.5            | 2.5            | 2.5            | 2.5              |
| Air screw                             | 1                | 1              | 1              | 1              | 1                |
| Idle speed (RPM)                      | 1100-1300        | 1100-1300      | 1100-1300      | 1100-1300      | 1100-1300        |

### DRIVE PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>SEA LEVEL</b>         | <b>4000 FT</b>      | <b>6000 FT</b>      | <b>8000 FT</b>      | <b>10 000 FT</b>    |
|-------------------------------------|--------------------------|---------------------|---------------------|---------------------|---------------------|
| Return spring                       | Turquoise<br>417 1159 00 | Blue<br>417 1156 00 | Blue<br>417 1156 00 | Blue<br>417 1156 00 | Blue<br>417 1156 00 |
| Centrifugal level arm               | B1KSH<br>504 0884 00     | A3SH<br>860 4166 00 | A3SH<br>860 4166 00 | A3SH<br>860 4166 00 | A3SH<br>860 4166 00 |
| Block                               | 417 1143 00<br>Std       | 417 1157 00         | 417 1157 00         | 417 1157 00         | 417 1157 00         |
| Weight                              | N/A                      | 417 1158 00<br>3    | 417 1158 00<br>2    | 417 1158 00<br>2    | 417 1158 00<br>1    |
| Capsule                             | 2                        | 0                   | 0                   | 0                   | 0                   |

### DRIVEN PULLEY

| <b>Altitude</b><br><b>Gearing</b> | <b>SEA LEVEL</b>            | <b>4000 FT</b>              | <b>6000 FT</b>              | <b>8000 FT</b>              | <b>10 000 FT</b>            |
|-----------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Spring preload                    | 8 lb ± 2                    | 13 lb ± 1                   | 13 lb ± 1                   | 13 lb ± 1                   | 13 lb ± 1                   |
| Cam                               | 37.8°<br>Std<br>504 0813 00 | 37.8°<br>Std<br>504 0813 00 | 37.8°<br>Std<br>504 0813 00 | 37.8°<br>Std<br>504 0813 00 | 37.8°<br>Std<br>504 0813 00 |
| Chaincase gearing                 | 14/25<br>Std                | 14/25<br>Std                | 14/25<br>Std                | 14/25<br>Std                | 14/25<br>Std                |
| <b>SPECIAL SET-UP NOTES:</b>      |                             |                             |                             |                             |                             |

# 1995-TUNDRA II LT



## CAUTION

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

### MAIN JET CHART

| Altitude<br>Temperature | Sea<br>Level | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft |
|-------------------------|--------------|-------------------|-------------------|-------------------|--------------------|
| - 40°C<br>- 40°F        | 210          | 190               | 150               | 145               | 135                |
| - 30°C<br>- 20°F        | 200          | 180               | 145               | 135               | 130                |
| <b>- 20°C<br/>- 4°F</b> | <b>190</b>   | <b>175</b>        | <b>140</b>        | <b>130</b>        | <b>125</b>         |
| - 10°C<br>14°F          | 185          | 170               | 135               | 125               | 120                |
| 0°C<br>32°F             | 180          | 165               | 130               | 120               | 115                |
| 10°C<br>50°F            | 170          | 155               | 125               | 115               | 110                |
| 20°C<br>70°F            | 165          | 150               | 120               | 110               | 105                |

# 1995-ALPINE II

## HIGH ALTITUDE KIT (P/N 861 7253 00)

### CARBURETOR

| <b>Altitude</b><br><b>Calibration</b> | <b>SEA LEVEL</b> | <b>4000 FT</b> | <b>6000 FT</b> | <b>8000 FT</b> | <b>10 000 FT</b> |
|---------------------------------------|------------------|----------------|----------------|----------------|------------------|
| Main jet                              | 200              | 180            | 170            | 160            | 145              |
| Needle jet                            | 159 P-0          | 159 P-0        | 159 P-0        | 159 P-0        | 159 P-0          |
| Pilot jet                             | 40               | 40             | 40             | 40             | 40               |
| Needle                                | 6DH3             | 6DH3           | 6DH3           | 6DH3           | 6DH3             |
| Needle clip position from top         | 2                | 2              | 2              | 2              | 2                |
| Slide cutaway                         | 2.5              | 2.5            | 2.5            | 2.5            | 2.5              |
| Air screw                             | 1-1/2            | 1-1/2          | 1-1/2          | 1-1/2          | 1-1/2            |
| Idle speed (RPM)                      | 1800-2000        | 1800-2000      | 1800-2000      | 1800-2000      | 1800-2000        |

### DRIVE PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>SEA LEVEL</b>       | <b>4000 FT</b>           | <b>6000 FT</b>           | <b>8000 FT</b>           | <b>10 000 FT</b>         |
|-------------------------------------|------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Return spring                       | Red/Red<br>414 6898 00 | Red/Green<br>414 6892 00 | Red/Green<br>414 6892 00 | Red/Green<br>414 6892 00 | Red/Green<br>414 6892 00 |
| Centrifugal level arm               | Std                    | Std                      | Std                      | Std                      | Std                      |
| Calibration washers or pin          | Std                    | Std                      | Std                      | Std                      | Std                      |
| Governor cup or ramp                | 221<br>420 4802 21     | 221<br>420 4802 21       | 221<br>420 4802 21       | 221<br>420 4802 21       | 221<br>420 4802 21       |
| Calibration screw position          | 4                      | 4                        | 4                        | 4                        | 4                        |

### DRIVEN PULLEY

| <b>Altitude</b><br><b>Gearing</b>                                                  | <b>SEA LEVEL</b> | <b>4000 FT</b> | <b>6000 FT</b> | <b>8000 FT</b> | <b>10 000 FT</b> |
|------------------------------------------------------------------------------------|------------------|----------------|----------------|----------------|------------------|
| Spring preload                                                                     | 17 lb ± 2        | 17 lb ± 2      | 17 lb ± 2      | 17 lb ± 2      | 17 lb ± 2        |
| Cam                                                                                | Std              | Std            | Std            | Std            | Std              |
| Chaincase gearing                                                                  | 17/46            | 17/46          | 17/46          | 17/46          | 17/46            |
| <b>SPECIAL SET-UP NOTES:</b><br>This vehicle is equipped with a "TRA" type clutch. |                  |                |                |                |                  |

1995 - ALPINE II



CAUTION

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

MAIN JET CHART

| Altitude<br>Temperature | Sea<br>Level | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft |
|-------------------------|--------------|-------------------|-------------------|-------------------|--------------------|
| - 40°C<br>- 40°F        | 220          | 195               | 180               | 170               | 155                |
| - 30°C<br>- 20°F        | 210          | 185               | 175               | 165               | 150                |
| - 20°C<br>- 4°F         | 200          | 180               | 170               | 160               | 145                |
| - 10°C<br>14°F          | 195          | 175               | 165               | 155               | 140                |
| 0°C<br>32°F             | 190          | 170               | 160               | 150               | 135                |
| 10°C<br>50°F            | 180          | 165               | 155               | 145               | 130                |
| 20°C<br>70°F            | 175          | 155               | 150               | 140               | 125                |

# 1995 - SKANDIC 380 R, TOURING E/LE, FORMULA S

## HIGH ALTITUDE KIT (P/N 861 7469 00)

### DRIVE PULLEY

| <b>Altitude</b><br><b>Clutching</b>      | <b>Qty</b> | <b>Sea Level</b>      | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|------------------------------------------|------------|-----------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring<br>(Skandic 380 R,<br>Touring LE) | 1          | Violet<br>417 1185 00 | Violet<br>417 1184 00           | ←                               | ←                               | ←                                |
| Spring<br>(Formula S,<br>Touring E)      | —          | Violet<br>417 1184 00 | ←                               | ←                               | ←                               | ←                                |
| Block                                    | 3          | STD                   | ←                               | ←                               | ←                               | ←                                |
| Weight                                   | —          | 6                     | 3                               | 2                               | 2                               | 1                                |
| Capsule                                  | —          | 1                     | ←                               | ←                               | ←                               | ←                                |
| Engagement<br>RPM                        | —          | 2800<br>3000          | ←                               | ←                               | ←                               | ←                                |
| Max. RPM                                 | —          | 6700<br>7000          | ←                               | ←                               | ←                               | ←                                |

### DRIVEN PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Qty</b> | <b>Sea Level</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2000 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|------------|------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | —          | Orange           | ←                               | ←                               | ←                               | ←                                |
| Spring tension                      | —          | 10.5             | 12                              | ←                               | ←                               | ←                                |
| Cam angle (deg.)                    | —          | 44°              | ←                               | ←                               | ←                               | ←                                |

### CHAINCASE

| <b>Altitude</b><br><b>Gearing</b> | <b>Qty</b> | <b>Sea Level</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-----------------------------------|------------|------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Top sprocket                      | —          | 21               | ←                               | ←                               | ←                               | ←                                |
| Bottom sprocket                   | —          | 44               | ←                               | ←                               | ←                               | ←                                |
| Chain,<br>quantity links          | —          | 72               | ←                               | ←                               | ←                               | ←                                |
| Sprocket,<br>quantity teeth       | —          | 9                | ←                               | ←                               | ←                               | ←                                |

**NOTE:** Arrows in the charts indicate that the preceding information is repeated.

1995- SKANDIC 380 R, TOURING E/LE,  
FORMULA S



**CAUTION**

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

**CARBURETION**

| <b>Altitude</b><br><b>Calibration</b> | <b>Qty</b> | <b>Sea Level</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|---------------------------------------|------------|------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Main jet                              | 2          | 135              | 125                             | 120                             | 110                             | 105                              |
| Jet needle                            | 2          | 6DP9             | ←                               | ←                               | ←                               | ←                                |
| Needle position                       | —          | 3                | ←                               | 2                               | ←                               | ←                                |
| Cut away                              | 2          | 2.5              | ←                               | ←                               | ←                               | ←                                |
| Pilot jet                             | 2          | 40               | ←                               | 45                              | ←                               | ←                                |
| Air screw                             | PTO<br>MAG | 1.25             | ←                               | 1/2<br>1                        | ←                               | ←                                |
| Valve seat                            | 2          | 1.5              | ←                               | ←                               | ←                               | ←                                |
| Needle jet                            | 2          | P-0 (159)        | ←                               | O-8 (159)                       | ←                               | ←                                |
| Power jet                             | —          | N/A              | ←                               | ←                               | ←                               | ←                                |
| Float level                           | —          | 23.9             | ←                               | ←                               | ←                               | ←                                |
| Idle RPM                              | —          | 1500<br>1800     | ←                               | ←                               | ←                               | ←                                |
| Idle throttle<br>valve position       | —          | 1.3              | ←                               | 1.6                             | ←                               | ←                                |

**MAIN JET CHART**

| <b>Altitude</b><br><b>Temperature</b> | <b>Qty</b> | <b>Sea Level</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|---------------------------------------|------------|------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| – 40°C<br>– 40°F                      | 2          | 145              | 135                             | 130                             | 120                             | 115                              |
| – 30°C<br>– 20°F                      | 2          | 140              | 130                             | 125                             | 115                             | 110                              |
| <b>– 20°C</b><br><b>– 4°F</b>         | <b>2</b>   | <b>135</b>       | <b>125</b>                      | <b>120</b>                      | <b>110</b>                      | <b>105</b>                       |
| – 10°C<br>14°F                        | 2          | 130              | 120                             | 115                             | 105                             | 100                              |
| 0°C<br>32°F                           | 2          | 125              | 115                             | 110                             | 100                             | 95                               |
| 10°C<br>50°F                          | 2          | 120              | 110                             | 105                             | 95                              | 90                               |
| 20°C<br>70°F                          | 2          | 115              | 105                             | 100                             | 90                              | 85                               |

# 1995-SKANDIC 500 R/TOURING SLE/ FORMULA SL

## HIGH ALTITUDE KIT (P/N 861 7468 00)

### DRIVE PULLEY

| <b>Altitude</b><br><b>Clutching</b>                    | <b>Qty</b> | <b>Sea Level</b> | <b>1200 m<br/>4000 ft</b> | <b>1800 m<br/>6000 ft</b> | <b>2400 m<br/>8000 ft</b> | <b>3000 m<br/>10000 ft</b> |
|--------------------------------------------------------|------------|------------------|---------------------------|---------------------------|---------------------------|----------------------------|
| Spring<br>(Skandic 500 R,<br>Touring SLE)              | 1          | Red/Green        | Red/Violet                | ←                         | ←                         | ←                          |
| Spring (Formula SL)                                    | 1          | Blue/Green       | Blue/Violet               | ←                         | ←                         | ←                          |
| Ramp                                                   | 3          | STD              | ←                         | ←                         | ←                         | ←                          |
| Cal. screw position<br>(Skandic 500 R,<br>Touring SLE) | —          | 4                | 3                         | 4                         | 5                         | 6                          |
| Cal. screw position<br>(Formula SL)                    | —          | 3                | 2                         | 3                         | 4                         | 5                          |
| Pin                                                    | 3          | STD              | ←                         | ←                         | ←                         | ←                          |
| Lever                                                  | 3          | STD              | ←                         | ←                         | ←                         | ←                          |
| Engagement RPM                                         | —          | 3500-3700        | ←                         | ←                         | ←                         | ←                          |
| Max. RPM                                               | —          | 6900-7200        | ←                         | ←                         | ←                         | ←                          |

### DRIVEN PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Qty</b> | <b>Sea Level</b> | <b>1200 m<br/>4000 ft</b> | <b>1800 m<br/>6000 ft</b> | <b>2000 m<br/>8000 ft</b> | <b>3000 m<br/>10000 ft</b> |
|-------------------------------------|------------|------------------|---------------------------|---------------------------|---------------------------|----------------------------|
| Spring                              | 1          | Orange           | ←                         | ←                         | ←                         | ←                          |
| Spring                              | 1          | Beige            | ←                         | ←                         | ←                         | ←                          |
| Spring tension                      | —          | 5 kg<br>10.5 lb  | 5.5 kg<br>12 lb           | ←                         | ←                         | ←                          |
| Cam angle (deg.)                    | 1          | 44°              | ←                         | ←                         | ←                         | ←                          |

### CHAINCASE

| <b>Altitude</b><br><b>Gearing</b>               | <b>Qty</b> | <b>Sea Level</b> | <b>1200 m<br/>4000 ft</b> | <b>1800 m<br/>6000 ft</b> | <b>2400 m<br/>8000 ft</b> | <b>3000 m<br/>10000 ft</b> |
|-------------------------------------------------|------------|------------------|---------------------------|---------------------------|---------------------------|----------------------------|
| Top sprocket<br>(Skandic 500 R,<br>Touring SLE) | 1          | 21               | ←                         | ←                         | ←                         | ←                          |
| Top sprocket<br>(Formula SL)                    | 1          | 22               | ←                         | ←                         | ←                         | ←                          |
| Bottom sprocket                                 | 1          | 44               | ←                         | ←                         | ←                         | ←                          |
| Chain, quantity links                           | 1          | 72               | ←                         | ←                         | ←                         | ←                          |
| Sprocket,<br>quantity teeth                     | —          | 9                | ←                         | ←                         | ←                         | ←                          |

**NOTE:** Arrows in the charts indicate that the preceding information is repeated.

# 1995 - SKANDIC 500 R/TOURING SLE/ FORMULA SL



## CAUTION

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

### CARBURETION

| Altitude<br>Calibration         | Qty        | Sea Level  | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft |
|---------------------------------|------------|------------|-------------------|-------------------|-------------------|--------------------|
| Main jet                        | PTO<br>MAG | 190<br>180 | 170<br>160        | 150<br>140        | 140<br>130        | 130<br>120         |
| Jet needle                      | 2          | 6DH2       | ←                 | ←                 | ←                 | ←                  |
| Needle position                 | —          | 3          | ←                 | 2                 | ←                 | ←                  |
| Cut away                        | 2          | 2.5        | ←                 | ←                 | ←                 | ←                  |
| Pilot jet                       | 2          | 40         | ←                 | 45                | ←                 | ←                  |
| Air screw                       | —          | 1.25       | ←                 | 1.0               | ←                 | ←                  |
| Valve seat                      | 2          | 1.5        | ←                 | ←                 | ←                 | ←                  |
| Needle jet                      | 2          | P-0 (159)  | ←                 | ←                 | ←                 | ←                  |
| Power jet                       | —          | N/A        | ←                 | ←                 | ←                 | ←                  |
| Float level                     | —          | 23.9       | ←                 | ←                 | ←                 | ←                  |
| Idle RPM                        | —          | 1800-2000  | ←                 | ←                 | ←                 | ←                  |
| Idle throttle<br>valve position | —          | 1.3        | ←                 | 1.65              | 1.70              | 1.75               |

### MAIN JET CHART

| Altitude<br>Temperature |                    | Sea Level          | 1200 m<br>4000 ft  | 1800 m<br>6000 ft  | 2400 m<br>8000 ft  | 3000 m<br>10000 ft |
|-------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| – 40°C<br>– 40°F        | PTO<br>MAG         | 210<br>200         | 185<br>175         | 165<br>155         | 155<br>145         | 140<br>130         |
| – 30°C<br>– 20°F        | PTO<br>MAG         | 200<br>190         | 175<br>165         | 155<br>145         | 145<br>135         | 135<br>125         |
| <b>– 20°C<br/>– 4°F</b> | <b>PTO<br/>MAG</b> | <b>190<br/>180</b> | <b>170<br/>160</b> | <b>150<br/>140</b> | <b>140<br/>130</b> | <b>130<br/>120</b> |
| – 10°C<br>14°F          | PTO<br>MAG         | 180<br>170         | 165<br>155         | 145<br>135         | 135<br>125         | 125<br>115         |
| 0°C<br>32°F             | PTO<br>MAG         | 175<br>165         | 160<br>150         | 140<br>130         | 130<br>120         | 120<br>110         |
| 10°C<br>50°F            | PTO<br>MAG         | 170<br>160         | 150<br>140         | 130<br>120         | 125<br>115         | 115<br>105         |
| 20°C<br>70°F            | PTO<br>MAG         | 165<br>155         | 145<br>135         | 125<br>115         | 120<br>110         | 110<br>100         |

# 1995- SKANDIC W/T AND SKANDIC M/S

## HIGH ALTITUDE KIT (P/N 861 7476 00)

### DRIVE PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Qty</b> | <b>Sea Level</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|------------|------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | 1          | Red/Violet       | ←                               | Blue/Violet                     | ←                               | ←                                |
| Ramp                                | 3          | STD              | ←                               | 420 480 227                     | ←                               | ←                                |
| Cal. screw position                 | —          | 5                | ←                               | ←                               | ←                               | 6                                |
| Pin                                 | 3          | STD              | ←                               | ←                               | ←                               | ←                                |
| Lever                               | 3          | STD              | ←                               | ←                               | ←                               | ←                                |
| Engagement RPM                      | —          | 2800-3000        | ←                               | ←                               | ←                               | ←                                |
| Max. RPM                            | —          | 6800-7100        | ←                               | ←                               | ←                               | ←                                |

### DRIVEN PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Qty</b> | <b>Sea Level</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2000 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|------------|------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | 1          | Blue             | ←                               | ←                               | ←                               | ←                                |
| Spring tension                      | —          | 7.7 kg<br>17 lb  | ←                               | ←                               | ←                               | ←                                |
| Cam angle (deg.)                    | 1          | 35°-50°          | ←                               | ←                               | ←                               | ←                                |

**NOTE:** Arrows in the charts indicate that the preceding information is repeated.

# 1995- SKANDIC W/T AND SKANDIC M/S



## CAUTION

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

### CARBURETION

| <div>Altitude</div> <div>Calibration</div> | Qty | Sea Level | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft |
|--------------------------------------------|-----|-----------|-------------------|-------------------|-------------------|--------------------|
| Main jet                                   | 1   | 250       | 220               | 210               | 200               | 190                |
| Jet needle                                 | 1   | 6DH8      | ←                 | ←                 | ←                 | ←                  |
| Needle position                            | —   | 4         | ←                 | ←                 | ←                 | ←                  |
| Cut away                                   | 1   | 3         | ←                 | ←                 | ←                 | ←                  |
| Pilot jet                                  | 1   | 25        | ←                 | ←                 | ←                 | ←                  |
| Air screw                                  | —   | 1.5       | ←                 | 1.250             | ←                 | ←                  |
| Valve seat                                 | 1   | 1.5       | ←                 | ←                 | ←                 | ←                  |
| Needle jet                                 | 1   | O-0 (159) | ←                 | ←                 | ←                 | ←                  |
| Power jet                                  | —   | N/A       | ←                 | ←                 | ←                 | ←                  |
| Float level                                | —   | 23.9      | ←                 | ←                 | ←                 | ←                  |
| Idle RPM                                   | —   | 1500-1800 | ←                 | ←                 | ←                 | ←                  |
| Idle throttle<br>valve position            | —   | 1.3       | ←                 | ←                 | ←                 | ←                  |

### MAIN JET CHART

| <div>Altitude</div> <div>Temperature</div> | Qty | Sea Level | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft |
|--------------------------------------------|-----|-----------|-------------------|-------------------|-------------------|--------------------|
| – 40°C<br>– 40°F                           | —   | 270       | 240               | 230               | 220               | 210                |
| – 30°C<br>– 20°F                           | —   | 260       | 230               | 220               | 210               | 200                |
| – 20°C<br>– 4°F                            | —   | 250       | 220               | 210               | 200               | 190                |
| – 10°C<br>14°F                             | —   | 240       | 210               | 200               | 190               | 180                |
| 0°C<br>32°F                                | —   | 230       | 200               | 190               | 180               | 175                |
| 10°C<br>50°F                               | —   | 220       | 190               | 185               | 175               | 170                |
| 20°C<br>70°F                               | —   | 210       | 185               | 180               | 170               | 165                |

# 1995- GRAND TOURING 470/MX

## HIGH ALTITUDE KIT (P/N 861 7454 00)

### DRIVE PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Qty</b> | <b>Sea Level</b> | <b>1200 m<br/>4000 ft</b> | <b>1800 m<br/>6000 ft</b> | <b>2400 m<br/>8000 ft</b> | <b>3000 m<br/>10000 ft</b> |
|-------------------------------------|------------|------------------|---------------------------|---------------------------|---------------------------|----------------------------|
| Spring (GT 470)                     | 1          | Blue/Pink        | Blue/Violet               | ←                         | ←                         | ←                          |
| Spring (MX)                         | 1          | Blue/Yellow      | Blue/Violet               | ←                         | ←                         | ←                          |
| Ramp                                | 3          | STD              | 420 4802 84               | ←                         | ←                         | ←                          |
| Cal. screw position<br>(GT 470)     | —          | 5                | 2                         | 3                         | 4                         | 5                          |
| Cal. screw position<br>(MX)         | —          | 4                | 2                         | 3                         | 4                         | 5                          |
| Pin (GT 470)                        | 3          | STD              | 420 4291 40               | ←                         | ←                         | ←                          |
| Pin (MX)                            | 3          | STD              | ←                         | ←                         | ←                         | ←                          |
| Lever                               | 3          | STD              | ←                         | ←                         | ←                         | ←                          |
| Engagement RPM                      | —          | 3400-3600        | ←                         | ←                         | ←                         | ←                          |
| Max. RPM                            | —          | 7300-7500        | ←                         | ←                         | ←                         | ←                          |

### DRIVEN PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Qty</b> | <b>Sea Level</b> | <b>1200 m<br/>4000 ft</b> | <b>1800 m<br/>6000 ft</b> | <b>2000 m<br/>8000 ft</b> | <b>3000 m<br/>10000 ft</b> |
|-------------------------------------|------------|------------------|---------------------------|---------------------------|---------------------------|----------------------------|
| Spring (GT 470)                     | 1          | Orange           | ←                         | ←                         | ←                         | ←                          |
| Spring (MX)                         | 1          | Beige            | ←                         | ←                         | ←                         | ←                          |
| Spring tension                      | —          | 6 kg<br>13.5 lb  | ←                         | ←                         | ←                         | ←                          |
| Cam angle (deg.)                    | 1          | 44°              | ←                         | ←                         | ←                         | ←                          |

### CHAINCASE

| <b>Altitude</b><br><b>Gearing</b> | <b>Qty</b> | <b>Sea Level</b> | <b>1200 m<br/>4000 ft</b> | <b>1800 m<br/>6000 ft</b> | <b>2400 m<br/>8000 ft</b> | <b>3000 m<br/>10000 ft</b> |
|-----------------------------------|------------|------------------|---------------------------|---------------------------|---------------------------|----------------------------|
| Top sprocket                      | 1          | 23               | ←                         | ←                         | ←                         | ←                          |
| Bottom sprocket                   | 1          | 44               | ←                         | ←                         | ←                         | ←                          |
| Chain,<br>quantity links          | 1          | 72               | ←                         | ←                         | ←                         | ←                          |
| Sprocket,<br>quantity teeth       | —          | 9                | ←                         | ←                         | ←                         | ←                          |

**NOTE:** Arrows in the charts indicate that the preceding information is repeated.

# 1995- GRAND TOURING 470/MX



## CAUTION

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

### CARBURETION

| Altitude<br>Calibration         | Qty        | Sea Level  | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft |
|---------------------------------|------------|------------|-------------------|-------------------|-------------------|--------------------|
| Main jet                        | PTO<br>MAG | 290<br>280 | 260<br>250        | 220<br>220        | 210<br>210        | 200<br>200         |
| Jet needle                      | 2          | 6DHN44     | ←                 | ←                 | ←                 | ←                  |
| Needle position                 | —          | 3          | ←                 | 2                 | ←                 | ←                  |
| Cut away                        | 2          | 2.5        | ←                 | ←                 | ←                 | ←                  |
| Pilot jet                       | 2          | 35         | 40                | 45                | 50                | ←                  |
| Air screw                       | —          | 1.0        | ←                 | 1.75              | ←                 | ←                  |
| Valve seat                      | 2          | 1.2        | ←                 | ←                 | ←                 | ←                  |
| Needle jet                      | 2          | N-4 (159)  | ←                 | N-2 (159)         | ←                 | ←                  |
| Power jet                       | —          | N/A        | ←                 | ←                 | ←                 | ←                  |
| Float level                     | —          | 23.9       | ←                 | ←                 | ←                 | ←                  |
| Idle RPM                        | —          | 1600-1800  | ←                 | ←                 | ←                 | ←                  |
| Idle throttle<br>valve position | —          | 1.6        | 1.70              | 1.75              | 1.80              | 1.85               |

### MAIN JET CHART

| Altitude<br>Temperature |            | Sea Level  | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft |
|-------------------------|------------|------------|-------------------|-------------------|-------------------|--------------------|
| – 40°C<br>40°F          | PTO<br>MAG | 310<br>300 | 280<br>270        | 240<br>240        | 230<br>230        | 220<br>220         |
| – 30°C<br>– 20°F        | PTO<br>MAG | 300<br>290 | 270<br>260        | 230<br>230        | 220<br>220        | 210<br>210         |
| – 20°C<br>– 4°F         | PTO<br>MAG | 290<br>280 | 260<br>250        | 220<br>220        | 210<br>210        | 200<br>200         |
| – 10°C<br>14°F          | PTO<br>MAG | 280<br>270 | 250<br>240        | 210<br>210        | 200<br>200        | 190<br>190         |
| 0°C<br>32°F             | PTO<br>MAG | 270<br>260 | 240<br>230        | 200<br>200        | 190<br>190        | 185<br>185         |
| 10°C<br>50°F            | PTO<br>MAG | 260<br>250 | 230<br>220        | 195<br>195        | 185<br>185        | 175<br>175         |
| 2°C<br>70°F             | PTO<br>MAG | 250<br>240 | 220<br>210        | 185<br>185        | 175<br>175        | 165<br>165         |

**HIGH ALTITUDE KIT (P/N 861 7453 00)****DRIVE PULLEY**

| <b>Altitude</b><br><b>Clutching</b> | <b>Qty</b> | <b>Sea Level</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|------------|------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | 1          | Pink/White       | ←                               | ←                               | ←                               | ←                                |
| Ramp                                | 3          | STD              | 504 0964 00                     | ←                               | ←                               | ←                                |
| Cal. screw position                 | —          | 3                | ←                               | 4                               | 5                               | ←                                |
| Pin                                 | 3          | STD              | ←                               | ←                               | ←                               | ←                                |
| Lever                               | 3          | STD              | ←                               | ←                               | ←                               | ←                                |
| Engagement RPM                      | —          | 4300-4500        | ←                               | 5000                            | ←                               | ←                                |
| Max. RPM                            | —          | 8100             | ←                               | ←                               | ←                               | ←                                |

**DRIVEN PULLEY**

| <b>Altitude</b><br><b>Clutching</b> | <b>Qty</b> | <b>Sea Level</b>  | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2000 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|------------|-------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | 1          | Beige             | ←                               | ←                               | ←                               | ←                                |
| Spring tension                      | —          | 6.5 kg<br>13.5 lb | ←                               | ←                               | ←                               | ←                                |
| Cam angle (deg.)                    | 1          | 44°               | ←                               | ←                               | ←                               | ←                                |

**CHAINCASE**

| <b>Altitude</b><br><b>Gearing</b> | <b>Qty</b> | <b>Sea Level</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-----------------------------------|------------|------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Top sprocket                      | 1          | 23               | ←                               | ←                               | ←                               | ←                                |
| Bottom sprocket                   | 1          | 44               | ←                               | ←                               | ←                               | ←                                |
| Chain,<br>quantity links          | 1          | 72               | ←                               | ←                               | ←                               | ←                                |
| Sprocket,<br>quantity teeth       | —          | 9                | ←                               | ←                               | ←                               | ←                                |

**NOTE:** Arrows in the charts indicate that the preceding information is repeated.



CAUTION

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

CARBURETION

| Altitude<br>Calibration         | Qty        | Sea Level  | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft |
|---------------------------------|------------|------------|-------------------|-------------------|-------------------|--------------------|
| Main jet                        | PTO<br>MAG | 270<br>270 | 240<br>240        | 220<br>220        | 195<br>195        | 175<br>175         |
| Jet needle                      | 2          | 6DHN43     | ←                 | ←                 | ←                 | ←                  |
| Needle position                 | —          | 3          | ←                 | 2                 | ←                 | 1                  |
| Cut away                        | 2          | 2.5        | ←                 | ←                 | ←                 | ←                  |
| Pilot jet                       | 2          | 50         | ←                 | 60                | ←                 | ←                  |
| Air screw                       | —          | .5         | ←                 | 1.0               | ←                 | ←                  |
| Valve seat                      | 2          | 1.5        | ←                 | ←                 | ←                 | ←                  |
| Needle jet                      | 2          | N-6 (159)  | ←                 | ←                 | ←                 | N-0 (159)          |
| Power jet                       | —          | N/A        | ←                 | ←                 | ←                 | ←                  |
| Float level                     | —          | 23.9       | ←                 | ←                 | ←                 | ←                  |
| Idle RPM                        | —          | 1800-2000  | ←                 | ←                 | ←                 | ←                  |
| Idle throttle<br>valve position | —          | 1.8        | 2.0               | 2.2               | 2.4               | 2.6                |

MAIN JET CHART

| Altitude<br>Temperature |         | Sea<br>Level | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft |
|-------------------------|---------|--------------|-------------------|-------------------|-------------------|--------------------|
| – 40°C (– 40°F)         | PTO/MAG | 290          | 260               | 240               | 215               | 195                |
| – 30°C (– 20°F)         | PTO/MAG | 280          | 250               | 230               | 205               | 185                |
| – 20°C (– 4°F)          | PTO/MAG | 270          | 240               | 220               | 195               | 175                |
| – 10°C (14°F)           | PTO/MAG | 260          | 230               | 210               | 185               | 165                |
| 0°C (32°F)              | PTO/MAG | 250          | 220               | 200               | 175               | 155                |
| 10°C (50°F)             | PTO/MAG | 240          | 210               | 190               | 165               | 145                |
| 20°C (70°F)             | PTO/MAG | 230          | 200               | 180               | 155               | 135                |



CAUTION

The rotary valve has to be changed and RAVE valve cap has to be unscrewed 5 turns when riding at over 1200 m (4000 ft). Rotary valve timing is 134°, 65°

# 1995- GRAND TOURING 580

## HIGH ALTITUDE KIT (P/N 861 7456 00)

### DRIVE PULLEY

| Altitude<br>Clutching | Qty | Sea Level  | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft |
|-----------------------|-----|------------|-------------------|-------------------|-------------------|--------------------|
| Spring                | 1   | Yellow/Red | ←                 | Blue/Orange       | ←                 | ←                  |
| Ramp                  | 3   | STD        | ←                 | ←                 | ←                 | ←                  |
| Cal. screw position   | —   | 3          | 5                 | 3                 | 4                 | 5                  |
| Pin                   | 3   | STD        | ←                 | ←                 | ←                 | ←                  |
| Lever                 | 3   | STD        | ←                 | ←                 | ←                 | ←                  |
| Engagement RPM        | —   | 3100-3300  | ←                 | ←                 | ←                 | ←                  |
| Max. RPM              | —   | 7200-7400  | ←                 | ←                 | ←                 | ←                  |

### DRIVEN PULLEY

| Altitude<br>Clutching | Qty | Sea Level       | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2000 m<br>8000 ft | 3000 m<br>10000 ft |
|-----------------------|-----|-----------------|-------------------|-------------------|-------------------|--------------------|
| Spring                | 1   | Beige           | ←                 | ←                 | ←                 | ←                  |
| Spring tension        | —   | 6 kg<br>13.5 lb | ←                 | ←                 | ←                 | ←                  |
| Cam angle (deg.)      | 1   | 50°             | ←                 | 44°               | ←                 | ←                  |

### CHAINCASE

| Altitude<br>Gearing         | Qty | Sea Level | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft |
|-----------------------------|-----|-----------|-------------------|-------------------|-------------------|--------------------|
| Top sprocket                | 1   | 25        | ←                 | ←                 | ←                 | ←                  |
| Bottom sprocket             | 1   | 44        | ←                 | ←                 | ←                 | ←                  |
| Chain,<br>quantity links    | 1   | 74        | ←                 | ←                 | ←                 | ←                  |
| Sprocket,<br>quantity teeth | —   | 9         | ←                 | ←                 | ←                 | ←                  |

**NOTE:** Arrows in the charts indicate that the preceding information is repeated.

# 1995- GRAND TOURING 580



## CAUTION

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

### CARBURETION

| <div>Altitude</div> <div>Calibration</div> | Qty        | Sea Level  | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft |
|--------------------------------------------|------------|------------|-------------------|-------------------|-------------------|--------------------|
| Main jet                                   | PTO<br>MAG | 360<br>370 | 320<br>330        | 300<br>310        | 280<br>290        | 260<br>270         |
| Jet needle                                 | 2          | 6DHN44     | ←                 | ←                 | ←                 | ←                  |
| Needle position                            | —          | 4          | ←                 | 3                 | ←                 | ←                  |
| Cut away                                   | 2          | 2.5        | ←                 | ←                 | ←                 | ←                  |
| Pilot jet                                  | 2          | 40         | ←                 | 50                | ←                 | ←                  |
| Air screw                                  | —          | 1.25       | ←                 | 1.5               | ←                 | ←                  |
| Valve seat                                 | 2          | 1.5        | ←                 | ←                 | ←                 | ←                  |
| Needle jet                                 | 2          | O-4 (480)  | ←                 | O-3 (480)         | ←                 | ←                  |
| Power jet                                  | —          | N/A        | ←                 | ←                 | ←                 | ←                  |
| Float level                                | —          | 18.1       | ←                 | ←                 | ←                 | ←                  |
| Idle RPM                                   | —          | 1800-2000  | ←                 | ←                 | ←                 | ←                  |
| Idle throttle<br>valve position            | —          | 1.5        | 1.6               | 1.65              | 1.7               | 1.75               |

### MAIN JET CHART

| <div>Altitude</div> <div>Temperature</div> |            | Sea Level  | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft |
|--------------------------------------------|------------|------------|-------------------|-------------------|-------------------|--------------------|
| – 40°C<br>– 40°F                           | PTO<br>MAG | 390<br>400 | 350<br>360        | 330<br>350        | 310<br>320        | 290<br>300         |
| – 30°C<br>– 20°F                           | PTO<br>MAG | 370<br>380 | 330<br>340        | 310<br>320        | 290<br>300        | 270<br>280         |
| – 20°C<br>– 4°F                            | PTO<br>MAG | 360<br>370 | 320<br>330        | 300<br>310        | 280<br>290        | 260<br>270         |
| – 10°C<br>14°F                             | PTO<br>MAG | 350<br>360 | 310<br>320        | 290<br>300        | 270<br>280        | 250<br>260         |
| 0°C<br>32°F                                | PTO<br>MAG | 340<br>350 | 300<br>310        | 280<br>290        | 260<br>270        | 240<br>250         |
| 10°C<br>50°F                               | PTO<br>MAG | 330<br>340 | 290<br>300        | 270<br>280        | 250<br>260        | 230<br>240         |
| 20°C<br>70°F                               | PTO<br>MAG | 310<br>320 | 270<br>280        | 250<br>260        | 240<br>250        | 270<br>280         |

# 1995- GRAND TOURING SE

## HIGH ALTITUDE KIT (P/N 861 7455 00)

### DRIVE PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Qty</b> | <b>Sea Level</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|------------|------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | 1          | Yellow/Orange    | Blue/Violet                     | ←                               | ←                               | ←                                |
| Ramp                                | 3          | STD              | 420 4802 28                     | ←                               | ←                               | ←                                |
| Cal. screw position                 | —          | 3                | 1                               | 2                               | 3                               | 4                                |
| Pin                                 | —          | STD              | ←                               | ←                               | ←                               | ←                                |
| Lever                               | —          | STD              | ←                               | ←                               | ←                               | ←                                |
| Engagement RPM                      | —          | 3400-3600        | ←                               | ←                               | ←                               | ←                                |
| Max. RPM                            | —          | 7600-7800        | ←                               | ←                               | ←                               | ←                                |

### DRIVEN PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Qty</b> | <b>Sea Level</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2000 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|------------|------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | —          | Beige            | ←                               | ←                               | ←                               | ←                                |
| Spring tension                      | —          | 6 kg<br>13.5 lb  | ←                               | ←                               | ←                               | ←                                |
| Cam angle (deg.)                    | —          | 47°              | ←                               | ←                               | ←                               | ←                                |

### CHAINCASE

| <b>Altitude</b><br><b>Gearing</b> | <b>Qty</b> | <b>Sea Level</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-----------------------------------|------------|------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Top sprocket                      | —          | 25               | ←                               | ←                               | ←                               | ←                                |
| Bottom sprocket                   | —          | 44               | ←                               | ←                               | ←                               | ←                                |
| Chain,<br>quantity links          | —          | 74               | ←                               | ←                               | ←                               | ←                                |
| Sprocket,<br>quantity teeth       | —          | 9                | ←                               | ←                               | ←                               | ←                                |

**NOTE:** Arrows in the charts indicate that the preceding information is repeated.

# 1995- GRAND TOURING SE



## CAUTION

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

### CARBURETION

| <div>Altitude</div> <div>Calibration</div> | Qty        | Sea Level  | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft |
|--------------------------------------------|------------|------------|-------------------|-------------------|-------------------|--------------------|
| Main jet                                   | PTO<br>MAG | 360<br>370 | 320<br>330        | 310<br>320        | 290<br>300        | 270<br>280         |
| Jet needle                                 | —          | 7EG06      | ←                 | ←                 | ←                 | ←                  |
| Needle position                            | —          | 3          | ←                 | 2                 | ←                 | ←                  |
| Cut away                                   | —          | 2.5        | ←                 | ←                 | ←                 | ←                  |
| Pilot jet                                  | 2          | 40         | ←                 | 50                | ←                 | ←                  |
| Air screw                                  | —          | 1.0        | ←                 | 0.75              | ←                 | ←                  |
| Valve seat                                 | —          | 1.5        | ←                 | ←                 | ←                 | ←                  |
| Needle jet                                 | 2          | AA-3 (224) | ←                 | Z.9 (224)         | ←                 | ←                  |
| Power jet                                  | N/A        | ←          | ←                 | ←                 | ←                 | ←                  |
| Float level                                | —          | 18.1       | ←                 | ←                 | ←                 | ←                  |
| Idle RPM                                   | —          | 1800-2000  | ←                 | ←                 | ←                 | ←                  |
| Idle throttle<br>valve position            | —          | 2.15       | 2.35              | 2.5               | 2.65              | 2.75               |

### MAIN JET CHART

| <div>Altitude</div> <div>Temperature</div> | Qty        | Sea Level  | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft |
|--------------------------------------------|------------|------------|-------------------|-------------------|-------------------|--------------------|
| – 40°C<br>– 40°F                           | PTO<br>MAG | 380<br>390 | 340<br>350        | 330<br>340        | 310<br>320        | 290<br>300         |
| – 30°C<br>– 20°F                           | PTO<br>MAG | 370<br>380 | 330<br>340        | 320<br>330        | 300<br>310        | 280<br>290         |
| – 20°C<br>– 4°F                            | PTO<br>MAG | 360<br>370 | 320<br>330        | 310<br>320        | 290<br>300        | 270<br>280         |
| – 10°C<br>14°F                             | PTO<br>MAG | 350<br>360 | 310<br>320        | 300<br>310        | 280<br>290        | 260<br>270         |
| 0°C<br>32°F                                | PTO<br>MAG | 340<br>350 | 300<br>310        | 290<br>300        | 270<br>280        | 250<br>260         |
| 10°C<br>50°F                               | PTO<br>MAG | 330<br>340 | 290<br>300        | 280<br>290        | 260<br>270        | 240<br>250         |
| 20°C<br>70°F                               | PTO<br>MAG | 310<br>320 | 270<br>280        | 260<br>270        | 250<br>260        | 230<br>240         |

# 1995-FORMULA STX/LT

## HIGH ALTITUDE KIT (P/N 861 7452 00)

### DRIVE PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Qty</b> | <b>Sea Level</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|------------|------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | 1          | Blue/Green       | Violet/Violet                   | ←                               | ←                               | ←                                |
| Ramp                                | 3          | STD              | ←                               | ←                               | ←                               | ←                                |
| Cal. screw position                 | —          | 4                | 3                               | 4                               | 4                               | 5                                |
| Pin                                 | 3          | STD              | ←                               | ←                               | ←                               | ←                                |
| Lever                               | 3          | STD              | ←                               | ←                               | ←                               | ←                                |
| Engagement RPM                      | —          | 3400-3600        | ←                               | ←                               | ←                               | ←                                |
| Max. RPM                            | —          | 7800-8000        | ←                               | ←                               | ←                               | ←                                |

### DRIVEN PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Qty</b> | <b>Sea Level</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2000 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|------------|------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | 1          | Beige            | ←                               | ←                               | ←                               | ←                                |
| Spring tension                      | —          | 6 kg<br>13.5 lb  | ←                               | ←                               | ←                               | ←                                |
| Cam angle (deg.)                    | 1          | 50°              | 44°                             | ←                               | ←                               | ←                                |

### CHAINCASE

| <b>Altitude</b><br><b>Gearing</b> | <b>Qty</b> | <b>Sea Level</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-----------------------------------|------------|------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Top sprocket                      | 1          | 25               | ←                               | ←                               | ←                               | ←                                |
| Bottom sprocket                   | 1          | 44               | ←                               | ←                               | ←                               | ←                                |
| Chain,<br>quantity links          | 1          | 74               | ←                               | ←                               | ←                               | ←                                |
| Sprocket,<br>quantity teeth       | —          | 9                | ←                               | ←                               | ←                               | ←                                |

**NOTE:** Arrows in the charts indicate that the preceding information is repeated.

# 1995 - FORMULA STX/LT



## CAUTION

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

### CARBURETION

| <div>Altitude</div> <div>Calibration</div> | Qty        | Sea Level  | 1200 m<br>4000 ft | 1800 m<br>6000 ft  | 2400 m<br>8000 ft | 3000 m<br>10000 ft |
|--------------------------------------------|------------|------------|-------------------|--------------------|-------------------|--------------------|
| Main jet                                   | PTO<br>MAG | 320<br>330 | 280<br>290        | 250<br>270         | 230<br>250        | 210<br>230         |
| Jet needle                                 | 2          | 6DHN44     | ←                 | ←                  | ←                 | ←                  |
| Needle position                            | —          | 3          | ←                 | ←                  | ←                 | ←                  |
| Cut away                                   | 2          | 2.5        | ←                 | ←                  | ←                 | ←                  |
| Pilot jet                                  | 2          | 40         | ←                 | ←                  | ←                 | ←                  |
| Air screw                                  | —          | 1.5        | ←                 | PTO 1.5<br>MAG 1.0 | ←                 | ←                  |
| Valve seat                                 | 2          | 1.5        | ←                 | ←                  | ←                 | ←                  |
| Needle jet                                 | 2          | P-O (480)  | ←                 | 0-4 (480)          | ←                 | ←                  |
| Power jet                                  | —          | N/A        | ←                 | ←                  | ←                 | ←                  |
| Float level                                | —          | 18.1       | ←                 | ←                  | ←                 | ←                  |
| Idle RPM                                   | —          | 1800-2000  | ←                 | ←                  | ←                 | ←                  |
| Idle throttle<br>valve position            | —          | 1.6        | 1.7               | 1.75               | 1.80              | 1.85               |

### MAIN JET CHART

| <div>Altitude</div> <div>Temperature</div> |            | Sea Level  | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft |
|--------------------------------------------|------------|------------|-------------------|-------------------|-------------------|--------------------|
| – 40°C                                     | PTO        | 340        | 300               | 270               | 250               | 240                |
| – 40°F                                     | MAG        | 350        | 310               | 290               | 270               | 260                |
| – 30°C                                     | PTO        | 330        | 290               | 260               | 240               | 230                |
| – 20°F                                     | MAG        | 340        | 300               | 280               | 260               | 250                |
| <b>– 20°C</b>                              | <b>PTO</b> | <b>320</b> | <b>280</b>        | <b>250</b>        | <b>230</b>        | <b>220</b>         |
| <b>– 4°F</b>                               | <b>MAG</b> | <b>330</b> | <b>290</b>        | <b>270</b>        | <b>250</b>        | <b>240</b>         |
| – 10°C                                     | PTO        | 310        | 270               | 240               | 220               | 210                |
| 14°F                                       | MAG        | 320        | 280               | 260               | 240               | 230                |
| 0°C                                        | PTO        | 300        | 260               | 230               | 210               | 200                |
| 32°F                                       | MAG        | 310        | 270               | 250               | 230               | 220                |
| 10°C                                       | PTO        | 290        | 250               | 220               | 200               | 190                |
| 50°F                                       | MAG        | 300        | 260               | 240               | 220               | 210                |
| 20°C                                       | PTO        | 280        | 240               | 210               | 190               | 180                |
| 70°F                                       | MAG        | 290        | 250               | 230               | 210               | 200                |

# 1995-FORMULA SS

## HIGH ALTITUDE KIT (P/N 861 7451 00)

### DRIVE PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Qty</b> | <b>Sea Level</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|------------|------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | 1          | Blue/Green       | Violet/Violet                   | ←                               | ←                               | ←                                |
| Ramp                                | 3          | STD              | 420 480 228                     | ←                               | ←                               | ←                                |
| Cal. screw position                 | —          | 3                | 1                               | 2                               | 3                               | 4                                |
| Pin                                 | 3          | STD              | ←                               | ←                               | ←                               | ←                                |
| Lever                               | 3          | STD              | ←                               | ←                               | ←                               | ←                                |
| Engagement RPM                      | —          | 3400-3600        | ←                               | ←                               | ←                               | ←                                |
| Max. RPM                            | —          | 7600-7800        | ←                               | ←                               | ←                               | ←                                |

### DRIVEN PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Qty</b> | <b>Sea Level</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2000 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|------------|------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | 1          | Beige            | ←                               | ←                               | ←                               | ←                                |
| Spring tension                      | —          | 6 kg<br>13.5 lb  | ←                               | ←                               | ←                               | ←                                |
| Cam angle (deg.)                    | 1          | 47°              | ←                               | ←                               | ←                               | ←                                |

### CHAINCASE

| <b>Altitude</b><br><b>Gearing</b> | <b>Qty</b> | <b>Sea Level</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-----------------------------------|------------|------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Top sprocket                      | 1          | 26               | ←                               | ←                               | ←                               | ←                                |
| Bottom sprocket                   | 1          | 44               | ←                               | ←                               | ←                               | ←                                |
| Chain,<br>quantity links          | 1          | 74               | ←                               | ←                               | ←                               | ←                                |
| Sprocket,<br>quantity teeth       | —          | 9                | ←                               | ←                               | ←                               | ←                                |

**NOTE:** Arrows in the charts indicate that the preceding information is repeated.



CAUTION

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

CARBURETION

| <div>Altitude</div> <div>Calibration</div> | Qty        | Sea Level  | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft |
|--------------------------------------------|------------|------------|-------------------|-------------------|-------------------|--------------------|
| Main jet                                   | PTO<br>MAG | 360<br>370 | 320<br>330        | 310<br>320        | 290<br>300        | 270<br>280         |
| Jet needle                                 | 2          | 7EGO6      | ←                 | ←                 | ←                 | ←                  |
| Needle position                            | —          | 3          | ←                 | 2                 | ←                 | ←                  |
| Cut away                                   | 2          | 2.5        | ←                 | ←                 | ←                 | ←                  |
| Pilot jet                                  | 2          | 40         | ←                 | 50                | ←                 | ←                  |
| Air screw                                  | —          | 1.0        | ←                 | 0.75              | ←                 | ←                  |
| Valve seat                                 | 2          | 1.5        | ←                 | ←                 | ←                 | ←                  |
| Needle jet                                 | 2          | AA-3 (224) | ←                 | Z-9 (224)         | ←                 | ←                  |
| Power jet                                  | —          | N/A        | ←                 | ←                 | ←                 | ←                  |
| Float level                                | —          | 18.1       | ←                 | ←                 | ←                 | ←                  |
| Idle RPM                                   | —          | 1800-2000  | ←                 | ←                 | ←                 | ←                  |
| Idle throttle<br>valve position            | —          | 2.15       | 2.35              | 2.5               | 2.65              | 2.75               |

MAIN JET CHART

| <div>Altitude</div> <div>Temperature</div> |            | Sea Level  | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft |
|--------------------------------------------|------------|------------|-------------------|-------------------|-------------------|--------------------|
| – 40°C<br>– 40°F                           | PTO<br>MAG | 380<br>390 | 340<br>350        | 330<br>340        | 310<br>320        | 290<br>300         |
| – 30°C<br>– 20°F                           | PTO<br>MAG | 370<br>380 | 330<br>340        | 320<br>330        | 300<br>310        | 280<br>290         |
| – 20°C<br>– 4°F                            | PTO<br>MAG | 360<br>370 | 320<br>330        | 310<br>320        | 290<br>300        | 270<br>280         |
| – 10°C<br>14°F                             | PTO<br>MAG | 350<br>360 | 310<br>320        | 300<br>310        | 280<br>290        | 260<br>270         |
| 0°C<br>32°F                                | PTO<br>MAG | 340<br>350 | 300<br>310        | 290<br>300        | 270<br>280        | 250<br>260         |
| 10°C<br>50°F                               | PTO<br>MAG | 330<br>340 | 290<br>300        | 280<br>290        | 260<br>270        | 240<br>250         |
| 20°C<br>70°F                               | PTO<br>MAG | 310<br>320 | 270<br>280        | 260<br>270        | 250<br>260        | 230<br>240         |

# 1995-FORMULA Z

## HIGH ALTITUDE KIT (P/N 861 7450 00)

### DRIVE PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Qty</b> | <b>Sea Level</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|------------|------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | 1          | Yellow           | Violet/Violet                   | ←                               | ←                               | ←                                |
| Ramp                                | 3          | STD              | ←                               | ←                               | ←                               | ←                                |
| Cal. screw position                 | —          | 4                | 3                               | 4                               | 4                               | 5                                |
| Pin                                 | 3          | STD              | ←                               | ←                               | ←                               | ←                                |
| Lever                               | 3          | STD              | ←                               | ←                               | ←                               | ←                                |
| Engagement RPM                      | —          | 3700-3900        | ←                               | ←                               | ←                               | ←                                |
| Max. RPM                            | —          | 7800-8000        | ←                               | ←                               | ←                               | ←                                |

### DRIVEN PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Qty</b> | <b>Sea Level</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2000 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|------------|------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | 1          | Beige            | ←                               | ←                               | ←                               | ←                                |
| Spring tension                      | —          | 6 kg<br>13.5 lb  | ←                               | ←                               | ←                               | ←                                |
| Cam angle (deg.)                    | 1          | 50°              | 44°                             | ←                               | ←                               | ←                                |

### CHAINCASE

| <b>Altitude</b><br><b>Gearing</b> | <b>Qty</b> | <b>Sea Level</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-----------------------------------|------------|------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Top sprocket                      | 1          | 25               | ←                               | ←                               | ←                               | ←                                |
| Bottom sprocket                   | 1          | 44               | ←                               | ←                               | ←                               | ←                                |
| Chain,<br>quantity links          | 1          | 74               | ←                               | ←                               | ←                               | ←                                |
| Sprocket,<br>quantity teeth       | —          | 9                | ←                               | ←                               | ←                               | ←                                |

**NOTE:** Arrows in the charts indicate that the preceding information is repeated.



CAUTION

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

CARBURETION

| Altitude<br>Calibration         | Qty        | Sea Level  | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft |
|---------------------------------|------------|------------|-------------------|-------------------|-------------------|--------------------|
| Main jet                        | PTO<br>MAG | 340<br>340 | 310<br>310        | 290<br>300        | 270<br>280        | 250<br>260         |
| Jet needle                      | 2          | 7DL7       | ←                 | ←                 | ←                 | ←                  |
| Needle position                 | —          | 3          | ←                 | ←                 | ←                 | ←                  |
| Cut away                        | 2          | 2.5        | ←                 | ←                 | ←                 | ←                  |
| Pilot jet                       | 2          | 45         | 55                | 60                | ←                 | ←                  |
| Air screw                       | —          | 1.0        | ←                 | ←                 | ←                 | ←                  |
| Valve seat                      | 2          | 1.5        | ←                 | ←                 | ←                 | ←                  |
| Needle jet                      | 2          | AA-2 (224) | ←                 | Z-8 (224)         | ←                 | ←                  |
| Power jet                       | —          | N/A        | ←                 | ←                 | ←                 | ←                  |
| Float level                     | —          | 18.1       | ←                 | ←                 | ←                 | ←                  |
| Idle RPM                        | —          | 1800-2000  | ←                 | ←                 | ←                 | ←                  |
| Idle throttle<br>valve position | —          | 1.80       | 1.90              | 1.95              | 2.00              | 2.05               |

MAIN JET CHART

| Altitude<br>Temperature |            | Sea Level  | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft |
|-------------------------|------------|------------|-------------------|-------------------|-------------------|--------------------|
| – 40°C<br>– 40°F        | PTO<br>MAG | 360<br>360 | 330<br>330        | 320<br>330        | 300<br>310        | 280<br>290         |
| – 30°C<br>– 20°F        | PTO<br>MAG | 350<br>350 | 320<br>320        | 300<br>290        | 280<br>290        | 260<br>270         |
| – 20°C<br>– 4°F         | PTO<br>MAG | 340<br>340 | 310<br>310        | 290<br>300        | 270<br>280        | 250<br>260         |
| – 10°C<br>14°F          | PTO<br>MAG | 330<br>330 | 300<br>300        | 280<br>290        | 260<br>270        | 240<br>250         |
| 0°C<br>32°F             | PTO<br>MAG | 320<br>320 | 290<br>290        | 270<br>280        | 250<br>260        | 230<br>240         |
| 10°C<br>50°F            | PTO<br>MAG | 310<br>310 | 280<br>280        | 260<br>270        | 240<br>250        | 220<br>230         |
| 20°C<br>70°F            | PTO<br>MAG | 300<br>300 | 270<br>270        | 250<br>260        | 220<br>230        | 210<br>220         |

# 1995-FORMULA III

## HIGH ALTITUDE KIT (P/N 861 7449 00)

### DRIVE PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Qty</b> | <b>Sea Level</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|------------|------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | —          | Pink/White       | ←                               | ←                               | ←                               | ←                                |
| Ramp                                | —          | STD              | ←                               | ←                               | ←                               | ←                                |
| Cal. screw position                 | —          | 4                | 1                               | 2                               | 3                               | 4                                |
| Pin                                 | 3          | STD              | 420 4291 40                     | ←                               | ←                               | ←                                |
| Lever                               | —          | STD              | ←                               | ←                               | ←                               | ←                                |
| Engagement RPM                      | —          | 4300-4500        | ←                               | ←                               | ←                               | ←                                |
| Max. RPM                            | —          | 8300-8500        | ←                               | ←                               | ←                               | ←                                |

### DRIVEN PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Qty</b> | <b>Sea Level</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2000 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|------------|------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | —          | Beige            | ←                               | ←                               | ←                               | ←                                |
| Spring tension                      | —          | 6 kg<br>13.5 lb  | ←                               | ←                               | ←                               | ←                                |
| Cam angle (deg.)                    | 1          | 50°              | 44°                             | ←                               | ←                               | ←                                |

### CHAINCASE

| <b>Altitude</b><br><b>Gearing</b> | <b>Qty</b> | <b>Sea Level</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-----------------------------------|------------|------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Top sprocket                      | —          | 25               | ←                               | ←                               | ←                               | ←                                |
| Bottom sprocket                   | —          | 44               | ←                               | ←                               | ←                               | ←                                |
| Chain,<br>quantity links          | —          | 74               | ←                               | ←                               | ←                               | ←                                |
| Sprocket,<br>quantity teeth       | —          | 9                | ←                               | ←                               | ←                               | ←                                |



## CAUTION

The tailpipe has to be modified using the restriction ring included in kit when riding at over 600 m (2000 ft).

**NOTE:** Arrows in the charts indicate that the preceding information is repeated.

# 1995 - FORMULA III



## CAUTION

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.



## CAUTION

The spark plugs have to be changed for BR8ES when riding at over 1200 m (4000 ft).

### CARBURETION

| <div>Altitude</div> <div>Calibration</div> | Qty | Sea Level       | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft |
|--------------------------------------------|-----|-----------------|-------------------|-------------------|-------------------|--------------------|
| Main jet<br>PTO/CTR/MAG                    | —   | 320/<br>320/320 | 290/<br>290/290   | 270/<br>270/270   | 250/<br>250/250   | 230/<br>230/230    |
| Jet needle                                 | —   | 6DHZ43          | ←                 | ←                 | ←                 | ←                  |
| Needle position                            | —   | 4               | ←                 | ←                 | ←                 | ←                  |
| Cut away                                   | —   | 2.5             | ←                 | ←                 | ←                 | ←                  |
| Pilot jet                                  | —   | 40              | 50                | ←                 | ←                 | 55                 |
| Air screw<br>PTO/CTR/MAG                   | —   | 1.5/1.0/1.0     | 1.0/1.0/1.0       | ←                 | ←                 | ←                  |
| Valve seat                                 | —   | 1.5             | ←                 | ←                 | ←                 | ←                  |
| Needle jet                                 | —   | 480 P-3         | 480 P-0           | 480 O-8           | ←                 | 480 O-6            |
| Power jet                                  | —   | N/A             | ←                 | ←                 | ←                 | ←                  |
| Float level                                | —   | 18.1            | ←                 | ←                 | ←                 | ←                  |
| Idle RPM                                   | —   | 1800-2000       | ←                 | ←                 | ←                 | ←                  |
| Idle throttle<br>valve position            | —   | 1.4             | 1.7               | 1.8               | 1.9               | 2.0                |

### MAIN JET CHART

| <div>Altitude</div> <div>Temperature</div> | Qty                     | Sea Level               | 1200 m<br>4000 ft       | 1800 m<br>6000 ft       | 2400 m<br>8000 ft       | 3000 m<br>10000 ft      |
|--------------------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| – 40°C<br>– 40°F                           | PTO/<br>CTR/MAG         | 340/<br>340/340         | 310/<br>310/310         | 300/<br>300/300         | 280/<br>280/280         | 260/<br>260/260         |
| – 30°C<br>– 20°F                           | PTO/<br>CTR/MAG         | 330/<br>330/330         | 300/<br>300/300         | 280/<br>280/280         | 260/<br>260/260         | 240/<br>240/240         |
| – 20°C<br>– 4°F                            | <b>PTO/<br/>CTR/MAG</b> | <b>320/<br/>320/320</b> | <b>290/<br/>290/290</b> | <b>270/<br/>270/270</b> | <b>250/<br/>250/250</b> | <b>230/<br/>230/230</b> |
| – 10°C<br>14°F                             | PTO/<br>CTR/MAG         | 310/<br>310/310         | 280/<br>280/280         | 260/<br>260/260         | 240/<br>240/240         | 220/<br>220/200         |
| 0°C<br>32°F                                | PTO/<br>CTR/MAG         | 300/<br>300/300         | 270/<br>270/270         | 250/<br>250/250         | 230/<br>230/230         | 210/<br>210/210         |
| 10°C<br>50°F                               | PTO/<br>CTR/MAG         | 290/<br>290/290         | 260/<br>260/260         | 240/<br>240/240         | 220/<br>220/220         | 200/<br>200/200         |
| 20°C<br>70°F                               | PTO/<br>CTR/MAG         | 280/<br>280/280         | 240/<br>240/240         | 230/<br>230/230         | 210/<br>210/210         | 190/<br>190/190         |

# 1995-MACH 1

## HIGH ALTITUDE KIT (P/N 861 7448 00)

### DRIVE PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Qty</b> | <b>Sea Level</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|------------|------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | 1          | Pink/White       | ←                               | ←                               | ←                               | ←                                |
| Ramp                                | 3          | STD              | 420 480 283                     | ←                               | ←                               | ←                                |
| Cal. screw position                 | —          | 3                | 2                               | 3                               | 4                               | 5                                |
| Pin                                 | 3          | STD              | 420 429 140                     | ←                               | ←                               | ←                                |
| Lever                               | 3          | STD              | ←                               | ←                               | ←                               | ←                                |
| Engagement RPM                      | —          | 4400-4600        | ←                               | ←                               | ←                               | ←                                |
| Max. RPM                            | —          | 8300             | ←                               | ←                               | ←                               | ←                                |

### DRIVEN PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Qty</b> | <b>Sea Level</b>  | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2000 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|------------|-------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | 1          | Beige             | ←                               | ←                               | ←                               | ←                                |
| Spring tension                      | —          | 6.5 kg<br>13.5 lb | ←                               | ←                               | ←                               | ←                                |
| Cam angle (deg.)                    | 1          | 47°               | ←                               | ←                               | ←                               | ←                                |

### CHAINCASE

| <b>Altitude</b><br><b>Gearing</b> | <b>Qty</b> | <b>Sea Level</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-----------------------------------|------------|------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Top sprocket                      | 1          | 26               | ←                               | ←                               | ←                               | ←                                |
| Bottom sprocket                   | 1          | 44               | ←                               | ←                               | ←                               | ←                                |
| Chain,<br>quantity links          | 1          | 74               | ←                               | ←                               | ←                               | ←                                |
| Sprocket,<br>quantity teeth       | —          | 9                | ←                               | ←                               | ←                               | ←                                |

**NOTE:** Arrows in the charts indicate that the preceding information is repeated.



CAUTION

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

CARBURETION

| Altitude<br>Calibration         | Qty        | Sea Level  | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft |
|---------------------------------|------------|------------|-------------------|-------------------|-------------------|--------------------|
| Main jet                        | PTO<br>MAG | 430<br>410 | 380<br>360        | 340<br>330        | 310<br>300        | 290<br>280         |
| Jet needle                      | 2          | 7EG06      | ←                 | ←                 | ←                 | ←                  |
| Needle position                 | —          | 3          | 2                 | ←                 | ←                 | ←                  |
| Cut away                        | 2          | 2.5        | ←                 | ←                 | ←                 | ←                  |
| Pilot jet                       | 2          | 35         | 45                | ←                 | ←                 | ←                  |
| Air screw                       | —          | 1.5        | ←                 | ←                 | ←                 | ←                  |
| Valve seat                      | 2          | 2.0        | ←                 | ←                 | ←                 | ←                  |
| Needle jet                      | 2          | AA-7 (224) | ←                 | ←                 | AA-1 (224)        | ←                  |
| Power jet                       | —          | N/A        | ←                 | ←                 | ←                 | ←                  |
| Float level                     | —          | 18.1       | ←                 | ←                 | ←                 | ←                  |
| Idle RPM                        | —          | 1600-1800  | ←                 | ←                 | ←                 | ←                  |
| Idle throttle<br>valve position | —          | 2.25       | 2.40              | 2.45              | 2.50              | 2.60               |

MAIN JET CHART

| Altitude<br>Temperature |     | Sea Level | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft |
|-------------------------|-----|-----------|-------------------|-------------------|-------------------|--------------------|
| – 40°C                  | PTO | 450       | 400               | 360               | 330               | 310                |
| – 40°F                  | MAG | 430       | 380               | 350               | 320               | 300                |
| – 30°C                  | PTO | 440       | 390               | 350               | 320               | 300                |
| – 20°F                  | MAG | 420       | 370               | 340               | 310               | 290                |
| – 20°C                  | PTO | 430       | 380               | 340               | 310               | 290                |
| – 4°F                   | MAG | 410       | 360               | 330               | 300               | 280                |
| – 10°C                  | PTO | 420       | 370               | 330               | 300               | 280                |
| 14°F                    | MAG | 400       | 350               | 320               | 290               | 270                |
| 0°C                     | PTO | 410       | 360               | 320               | 290               | 270                |
| 32°F                    | MAG | 390       | 340               | 310               | 280               | 260                |
| 10°C                    | PTO | 400       | 350               | 310               | 280               | 260                |
| 50°F                    | MAG | 380       | 330               | 300               | 270               | 250                |
| 20°C                    | PTO | 390       | 340               | 300               | 270               | 250                |
| 70°F                    | MAG | 370       | 320               | 290               | 260               | 240                |

# 1995- MACH Z

## HIGH ALTITUDE KIT (P/N 861 7447 00)

### DRIVE PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Qty</b> | <b>Sea Level</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|------------|------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | 1          | Green/Violet     | ←                               | ←                               | ←                               | ←                                |
| Ramp                                | 3          | STD              | ←                               | ←                               | ←                               | ←                                |
| Cal. screw position                 | —          | 3                | 4                               | 2                               | 3                               | ←                                |
| Pin                                 | 3          | STD              | 420 429 140                     | ←                               | ←                               | ←                                |
| Lever                               | 3          | STD              | ←                               | ←                               | ←                               | ←                                |
| Engagement RPM                      | —          | 4000-4200        | 4400-4500                       | ←                               | ←                               | ←                                |
| Max. RPM                            | —          | 8100-8300        | ←                               | ←                               | ←                               | ←                                |

### DRIVEN PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Qty</b> | <b>Sea Level</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2000 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|------------|------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | 1          | Beige            | ←                               | ←                               | ←                               | ←                                |
| Spring tension                      | —          | 5 kg<br>12 lb    | 6.5 kg<br>15 lb                 | ←                               | ←                               | ←                                |
| Cam angle (deg.)                    | 1          | 50°              | ←                               | ←                               | ←                               | ←                                |

### CHAINCASE

| <b>Altitude</b><br><b>Gearing</b> | <b>Qty</b> | <b>Sea Level</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-----------------------------------|------------|------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Top sprocket                      | 1          | 26               | ←                               | ←                               | ←                               | ←                                |
| Bottom sprocket                   | 1          | 44               | ←                               | ←                               | ←                               | ←                                |
| Chain,<br>quantity links          | 1          | 74               | ←                               | ←                               | ←                               | ←                                |
| Sprocket,<br>quantity teeth       | —          | 9                | ←                               | ←                               | ←                               | ←                                |

**NOTE:** Arrows in the charts indicate that the preceding information is repeated.



**CAUTION**

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

**CARBURETION**

| <b>Altitude</b><br><b>Calibration</b> | <b>Qty</b> | <b>Sea Level</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|---------------------------------------|------------|------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Main jet<br>PTO/CTR/MAG               | —          | 390/<br>380/400  | 330/<br>320/330                 | 300/<br>290/300                 | 270/<br>260/270                 | 240/<br>230/240                  |
| Jet needle                            | 3          | 8AGY01-41        | ←                               | ←                               | ←                               | ←                                |
| Needle position                       | —          | 3                | 2                               | ←                               | ←                               | 1                                |
| Cut away                              | —          | 2.0              | ←                               | ←                               | ←                               | ←                                |
| Pilot jet<br>PTO/CTR/MAG              | —          | 40/45/45         | ←                               | ←                               | ←                               | ←                                |
| Air screw<br>PTO/CTR/MAG              | —          | 4.5/4.0/3.5      | ←                               | 3.375/<br>3.0/2.625             | 2.250/<br>2.0/1.750             | ←                                |
| Valve seat                            | 3          | 1.5V             | ←                               | ←                               | ←                               | ←                                |
| Needle jet                            | 2          | O-4 (327)        | ←                               | ←                               | ←                               | ←                                |
| Starter Jet                           | 3          | 1.5              | ←                               | ←                               | ←                               | ←                                |
| Float level                           | —          | 22.0             | ←                               | ←                               | ←                               | ←                                |
| Idle RPM                              | —          | 1700-1800        | ←                               | ←                               | ←                               | ←                                |
| Idle throttle<br>valve position       | —          | 1.2              | 1.6                             | 1.8                             | 2.0                             | 2.2                              |

**MAIN JET CHART**

| <b>Altitude</b><br><b>Temperature</b> |                         | <b>Sea Level</b>        | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|---------------------------------------|-------------------------|-------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| - 40°C<br>- 40°F                      | PTO/<br>CTR/MAG         | 410/<br>400/420         | 350/<br>340/360                 | 320/<br>310/320                 | 290/<br>280/290                 | 260/<br>250/260                  |
| - 30°C<br>- 20°F                      | PTO/<br>CTR/MAG         | 400/<br>390/410         | 340/<br>330/340                 | 310/<br>300/310                 | 280/<br>270/280                 | 250/<br>240/250                  |
| - 20°C<br>- 4°F                       | <b>PTO/<br/>CTR/MAG</b> | <b>390/<br/>380/400</b> | <b>330/<br/>320/330</b>         | <b>300/<br/>290/300</b>         | <b>270/<br/>260/270</b>         | <b>240/<br/>230/240</b>          |
| - 10°C<br>14°F                        | PTO/<br>CTR/MAG         | 380/<br>370/390         | 320/<br>310/320                 | 290/<br>280/290                 | 260/<br>250/260                 | 230/<br>220/230                  |
| 0°C<br>32°F                           | PTO/<br>CTR/MAG         | 370/<br>360/380         | 310/<br>300/310                 | 280/<br>270/280                 | 250/<br>240/250                 | 220/<br>210/220                  |
| 10°C<br>50°F                          | PTO/<br>CTR/MAG         | 360/<br>350/370         | 300/<br>290/300                 | 270/<br>260/270                 | 240/<br>230/240                 | 210/<br>200/210                  |
| 20°C<br>70°F                          | PTO/<br>CTR/MAG         | 350/<br>340/360         | 290/<br>280/290                 | 260/<br>250/260                 | 230/<br>220/230                 | 200/<br>190/200                  |

# SEA LEVEL TECHNICAL DATA - 1995 MODELS

## 1995-SUMMIT 583

### SEA LEVEL KIT (P/N 861 7456 00)

#### DRIVE PULLEY

| Altitude<br>Clutching | Qty | Sea Level  | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft |
|-----------------------|-----|------------|-------------------|-------------------|-------------------|--------------------|
| Spring                | 1   | Blue/Green | Violet/Violet     | ←                 | ←                 | ←                  |
| Ramp                  | 3   | STD        | ←                 | ←                 | ←                 | ←                  |
| Cal. screw position   | —   | 4          | 3                 | 4                 | ←                 | 5                  |
| Pin                   | 3   | STD        | ←                 | ←                 | ←                 | ←                  |
| Lever                 | 3   | STD        | ←                 | ←                 | ←                 | ←                  |
| Engagement RPM        | —   | 3400-3600  | 3700-3900         | ←                 | ←                 | ←                  |
| Max. RPM              | —   | 7800-8000  | ←                 | ←                 | ←                 | ←                  |

#### DRIVEN PULLEY

| Altitude<br>Clutching | Qty | Sea Level       | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2000 m<br>8000 ft | 3000 m<br>10000 ft |
|-----------------------|-----|-----------------|-------------------|-------------------|-------------------|--------------------|
| Spring                | 1   | Beige           | ←                 | ←                 | ←                 | ←                  |
| Spring tension        | —   | 6 kg<br>13.5 lb | ←                 | ←                 | ←                 | ←                  |
| Cam angle (deg.)      | 1   | 44°             | ←                 | ←                 | ←                 | ←                  |

#### CHAINCASE

| Altitude<br>Gearing         | Qty | Sea Level | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft |
|-----------------------------|-----|-----------|-------------------|-------------------|-------------------|--------------------|
| Top sprocket                | 1   | 23        | ←                 | ←                 | ←                 | ←                  |
| Bottom sprocket             | 1   | 44        | ←                 | ←                 | ←                 | ←                  |
| Chain,<br>quantity links    | 1   | 72        | ←                 | ←                 | ←                 | ←                  |
| Sprocket,<br>quantity teeth | —   | 9         | ←                 | ←                 | ←                 | ←                  |

NOTE: Arrows in the charts indicate that the preceding information is repeated.



**CAUTION**

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

**CARBURETION**

| <b>Altitude</b><br><b>Calibration</b> | <b>Qty</b> | <b>Sea Level</b>   | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|---------------------------------------|------------|--------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Main jet                              | —          | PTO 380<br>MAG 380 | ←                               | ←                               | ←                               | ←                                |
| Jet needle                            | 2          | 6FL14              | ←                               | ←                               | ←                               | ←                                |
| Needle position                       | 2          | 2                  | ←                               | ←                               | ←                               | ←                                |
| Cut away                              | 2          | 2.5                | ←                               | ←                               | ←                               | ←                                |
| Pilot jet                             | 2          | 75                 | ←                               | ←                               | ←                               | ←                                |
| Air screw                             | 2          | 1.0                | ←                               | ←                               | ←                               | ←                                |
| Valve seat                            | 2          | 1.5                | ←                               | ←                               | ←                               | ←                                |
| Needle jet                            | 2          | P-6 (480)          | ←                               | ←                               | ←                               | ←                                |
| Power jet                             | —          | N/A                | ←                               | ←                               | ←                               | ←                                |
| Float level                           | 2          | 19.6               | ←                               | ←                               | ←                               | ←                                |
| Idle RPM                              | —          | 1500-1700          | ←                               | ←                               | ←                               | ←                                |
| Idle throttle<br>valve position       | —          | 2.2                | 2.4                             | 2.55                            | 2.7                             | 2.9                              |

**MAIN JET CHART**

| <b>Altitude</b><br><b>Temperature</b> | <b>Qty</b> | <b>Sea Level</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|---------------------------------------|------------|------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| – 40°C<br>– 40°F                      | 2          | 380              | 380                             | 380                             | 380                             | 380                              |
| – 30°C<br>– 20°F                      | 2          | 380              | 380                             | 380                             | 380                             | 380                              |
| <b>– 20°C</b><br><b>– 4°F</b>         | <b>2</b>   | <b>380</b>       | <b>380</b>                      | <b>380</b>                      | <b>380</b>                      | <b>380</b>                       |
| – 10°C<br>14°F                        | 2          | 380              | 380                             | 380                             | 380                             | 380                              |
| 0°C<br>32°F                           | 2          | 380              | 380                             | 380                             | 380                             | 380                              |
| 10°C<br>50°F                          | 2          | 380              | 380                             | 380                             | 380                             | 380                              |
| 20°C<br>70°F                          | 2          | 380              | 380                             | 380                             | 380                             | 380                              |

# HIGH ALTITUDE TECHNICAL DATA - 1996 MODELS

## 1996-ELAN

### HIGH ALTITUDE KIT (P/N 861 7539 00)

#### DRIVE PULLEY

| Altitude<br>Clutching       |  | Sea Level           | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty |
|-----------------------------|--|---------------------|------------------|-------------------|-------------------|-------------------|--------------------|-----|
| Spring                      |  | Blue<br>417 1150 00 | ←                | ←                 | ←                 | ←                 | ←                  | 1   |
| Block                       |  | 417 1143 00         | ←                | ←                 | ←                 | ←                 | ←                  | —   |
| Weight                      |  | 6                   | ←                | ←                 | 5                 | ←                 | ←                  | —   |
| Capsule                     |  | 417 1145 00         | ←                | ←                 | ←                 | ←                 | ←                  | —   |
| Engagement<br>RPM $\pm$ 100 |  | 2100                | ←                | ←                 | ←                 | ←                 | ←                  | —   |
| Maximum<br>RPM $\pm$ 100    |  | 5200                | ←                | ←                 | ←                 | ←                 | ←                  | —   |

#### DRIVEN PULLEY

| Altitude<br>Clutching |                | Sea Level | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2000 m<br>8000 ft | 3000 m<br>10000 ft |
|-----------------------|----------------|-----------|------------------|-------------------|-------------------|-------------------|--------------------|
| Spring                |                | Black     | ←                | ←                 | ←                 | ←                 | ←                  |
| Spring<br>tension     | Kg $\pm$ 0.7   | 3.6       | ←                | 4.5               | ←                 | ←                 | ←                  |
|                       | lb $\pm$ 1.5   | 7.9       | ←                | 9.9               | ←                 | ←                 | ←                  |
| Cam<br>angle          | °<br>(degrees) | 40.4      | ←                | ←                 | ←                 | ←                 | ←                  |

#### CHAINCASE and DRIVE AXLE

| Altitude<br>Gearing                  |  | Sea Level | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft |
|--------------------------------------|--|-----------|------------------|-------------------|-------------------|-------------------|--------------------|
| Top sprocket                         |  | 10        | ←                | ←                 | ←                 | ←                 | ←                  |
| Bottom sprocket                      |  | 25        | ←                | ←                 | ←                 | ←                 | ←                  |
| Chain,<br>quantity of links          |  | 62        | ←                | ←                 | ←                 | ←                 | ←                  |
| Drive sprocket,<br>quantity of teeth |  | 9         | —                | —                 | —                 | —                 | —                  |

**NOTE:** Arrows in the charts indicate that the preceding information is repeated.



**CAUTION**

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

**CARBURETION**

| Altitude<br>Calibration      |     | Sea Level | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty |
|------------------------------|-----|-----------|------------------|-------------------|-------------------|-------------------|--------------------|-----|
| Main jet                     |     | 160       | 155              | 145               | 135               | 125               | 120                | 1   |
| Jet needle                   |     | 6DP1      | ←                | ←                 | ←                 | ←                 | ←                  | 1   |
| Needle position              |     | 3         | ←                | ←                 | ←                 | ←                 | ←                  | —   |
| Slide cutaway                |     | 2.0       | ←                | ←                 | ←                 | ←                 | ←                  | 1   |
| Pilot jet                    |     | 30        | ←                | ←                 | ←                 | ←                 | ←                  | 1   |
| Air screw                    |     | 1.5       | ←                | ←                 | ←                 | ←                 | ←                  | —   |
| Valve seat                   |     | 1.5       | ←                | ←                 | ←                 | ←                 | ←                  | 1   |
| Needle jet                   |     | 0-8 (182) | ←                | ←                 | ←                 | ←                 | ←                  | 1   |
| Float level                  | mm  | 17.3      | ←                | ←                 | ←                 | ←                 | ←                  | —   |
| Idle                         | RPM | 1100-1300 | ←                | ←                 | ←                 | ←                 | ←                  | —   |
| Idle throttle valve position | mm  | 1.5       | ←                | ←                 | ←                 | ←                 | ←                  | —   |

**MAIN JET CHART**

| Altitude<br>Temperature |  | Sea Level  | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty      |
|-------------------------|--|------------|------------------|-------------------|-------------------|-------------------|--------------------|----------|
| - 40°C<br>- 40°F        |  | 170        | 165              | 155               | 145               | 140               | 130                | 1        |
| - 30°C<br>- 20°F        |  | 165        | 160              | 150               | 140               | 130               | 125                | 1        |
| <b>- 20°C<br/>- 4°F</b> |  | <b>160</b> | <b>155</b>       | <b>145</b>        | <b>135</b>        | <b>125</b>        | <b>120</b>         | <b>1</b> |
| - 10°C<br>14°F          |  | 155        | 150              | 140               | 130               | 120               | 115                | 1        |
| 0°C<br>32°F             |  | 150        | 145              | 135               | 125               | 115               | 110                | 1        |
| 10°C<br>50°F            |  | 145        | 140              | 130               | 120               | 110               | 105                | 1        |
| 20°C<br>70°F            |  | 140        | 135              | 125               | 115               | 105               | 100                | 1        |

**NOTE:** Arrows in the charts indicate that the preceding information is repeated.

# 1996-TUNDRA II LT

## HIGH ALTITUDE KIT (P/N 861 7538 00)

### DRIVE PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>         | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> | <b>Qty</b> |
|-------------------------------------|--------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|------------|
| Spring                              | Turquoise<br>417 1159 00 | ←                              | Blue<br>417 1156 00             | ←                               | ←                               | ←                                | 1          |
| Block                               | 417 1143 00              | ←                              | 417 1157 00                     | ←                               | ←                               | ←                                | 3          |
| Weight                              | 0                        | ←                              | 3 of<br>417 1158 00             | 2 of<br>←                       | 2 of<br>←                       | 1 of<br>←                        | x 3        |
| Capsule                             | 2                        | ←                              | 0                               | ←                               | ←                               | ←                                | x 3        |
| Engagement<br>RPM ± 100             | 3900                     | ←                              | 3200                            | ←                               | ←                               | ←                                | —          |
| Maximum<br>RPM ± 100                | 6900                     | ←                              | ←                               | ←                               | ←                               | ←                                | —          |

### DRIVEN PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>     | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2000 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|----------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | White                | ←                              | ←                               | ←                               | ←                               | ←                                |
| Spring tension                      | Kg ± 0.7<br>lb ± 1.5 | 3.6<br>7.9                     | 5.9<br>13                       | ←                               | ←                               | ←                                |
| Cam angle                           | °<br>(degrees)       | 37.8                           | ←                               | ←                               | ←                               | ←                                |

### CHAINCASE and DRIVE AXLE

| <b>Altitude</b><br><b>Gearing</b>    | <b>Sea Level</b> | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|--------------------------------------|------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Top sprocket                         | 14               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Bottom sprocket                      | 25               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Chain,<br>quantity of links          | 62               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Drive sprocket,<br>quantity of teeth | 8                | —                              | —                               | —                               | —                               | —                                |

**NOTE:** Arrows in the charts indicate that the preceding information is repeated.

# 1996-TUNDRA II LT



## CAUTION

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

### CARBURETION

| Altitude                     |     | Sea Level | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty |
|------------------------------|-----|-----------|------------------|-------------------|-------------------|-------------------|--------------------|-----|
| Calibration                  |     |           |                  |                   |                   |                   |                    |     |
| Main jet                     |     | 190       | 185              | 175               | 140               | 130               | 125                | 1   |
| Jet needle                   |     | 6DH4      | ←                | ←                 | ←                 | ←                 | ←                  | 1   |
| Needle position              |     | 2         | ←                | ←                 | ←                 | ←                 | ←                  | —   |
| Slide cutaway                |     | 2.5       | ←                | ←                 | ←                 | ←                 | ←                  | 1   |
| Pilot jet                    |     | 40        | ←                | ←                 | 35                | ←                 | ←                  | 1   |
| Air screw                    |     | 1.0       | ←                | ←                 | ←                 | ←                 | ←                  | —   |
| Valve seat                   |     | 1.5       | ←                | ←                 | ←                 | ←                 | ←                  | 1   |
| Needle jet                   |     | 0-8 (154) | ←                | ←                 | ←                 | ←                 | ←                  | 1   |
| Float level                  | mm  | 23.9      | ←                | ←                 | ←                 | ←                 | ←                  | —   |
| Idle                         | RPM | 1100-1300 | ←                | ←                 | ←                 | ←                 | ←                  | —   |
| Idle throttle valve position | mm  | 1.3       | ←                | ←                 | ←                 | ←                 | ←                  | —   |

### MAIN JET CHART

| Altitude         |  | Sea Level | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty |
|------------------|--|-----------|------------------|-------------------|-------------------|-------------------|--------------------|-----|
| Temperature      |  |           |                  |                   |                   |                   |                    |     |
| - 40°C<br>- 40°F |  | 210       | 200              | 190               | 150               | 145               | 135                | 1   |
| - 30°C<br>- 20°F |  | 200       | 190              | 180               | 145               | 135               | 130                | 1   |
| - 20°C<br>- 4°F  |  | 190       | 185              | 175               | 140               | 130               | 125                | 1   |
| - 10°C<br>14°F   |  | 185       | 180              | 170               | 135               | 125               | 120                | 1   |
| 0°C<br>32°F      |  | 180       | 175              | 165               | 130               | 120               | 115                | 1   |
| 10°C<br>50°F     |  | 170       | 165              | 155               | 125               | 115               | 110                | 1   |
| 20°C<br>70°F     |  | 165       | 160              | 150               | 120               | 110               | 105                | 1   |

NOTE: Arrows in the charts indicate that the preceding information is repeated.

# 1996-SKANDIC WT

## HIGH ALTITUDE KIT (P/N 861 7519 00)

### DRIVE PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>           | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> | <b>Qty</b> |
|-------------------------------------|----------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|------------|
| Spring                              | Blue/Violet<br>420 438 137 | ←                              | Red/Blue<br>414 6915 00         | ←                               | ←                               | ←                                | 1          |
| Ramp                                | 420 480 146                | ←                              | ←                               | ←                               | ←                               | ←                                | 3          |
| Calibration screw position          | 3                          | 4                              | 2                               | 3                               | 4                               | 5                                | —          |
| Pin                                 | 420 429 140                | ←                              | ←                               | ←                               | ←                               | ←                                | 3          |
| Engagement RPM $\pm$ 100            | 2900                       | ←                              | ←                               | ←                               | ←                               | ←                                | —          |
| Maximum RPM $\pm$ 100               | 6500                       | ←                              | ←                               | ←                               | ←                               | ←                                | —          |

### DRIVEN PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>             | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2000 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|------------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | Blue                         | ←                              | ←                               | ←                               | ←                               | ←                                |
| Spring tension                      | Kg $\pm$ 0.7<br>lb $\pm$ 1.5 | ←                              | ←                               | ←                               | ←                               | ←                                |
| Cam angle                           | °<br>(degrees)               | ←                              | ←                               | ←                               | ←                               | ←                                |

### CHAINCASE and DRIVE AXLE

| <b>Altitude</b><br><b>Gearing</b> | <b>Sea Level</b> | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-----------------------------------|------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Top sprocket                      | N/A              | ←                              | ←                               | ←                               | ←                               | ←                                |
| Bottom sprocket                   | N/A              | ←                              | ←                               | ←                               | ←                               | ←                                |
| Chain, quantity of links          | N/A              | ←                              | ←                               | ←                               | ←                               | ←                                |
| Drive sprocket, quantity of teeth | 8                | —                              | —                               | —                               | —                               | —                                |

**NOTE:** Arrows in the charts indicate that the preceding information is repeated.



CAUTION

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

CARBURETION

| Altitude                     |     | Sea Level | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty |
|------------------------------|-----|-----------|------------------|-------------------|-------------------|-------------------|--------------------|-----|
| Calibration                  |     |           |                  |                   |                   |                   |                    |     |
| Main jet                     |     | 220       | 210              | 190               | 170               | 160               | 150                | 1   |
| Jet needle                   |     | 6DH8      | ←                | ←                 | ←                 | ←                 | ←                  | 1   |
| Needle position              |     | 4         | ←                | ←                 | 3                 | ←                 | ←                  | —   |
| Slide cutaway                |     | 3.0       | ←                | ←                 | ←                 | ←                 | ←                  | 1   |
| Pilot jet                    |     | 25        | ←                | ←                 | ←                 | ←                 | ←                  | 1   |
| Air screw                    |     | 1.5       | ←                | ←                 | .75               | ←                 | ←                  | —   |
| Valve seat                   |     | 1.5       | ←                | ←                 | ←                 | ←                 | ←                  | 2   |
| Needle jet                   |     | O-0 (159) | ←                | ←                 | ←                 | ←                 | ←                  | 1   |
| Float level                  | mm  | 23.9      | ←                | ←                 | ←                 | ←                 | ←                  | —   |
| Idle                         | RPM | 1500-1800 | ←                | ←                 | ←                 | ←                 | ←                  | —   |
| Idle throttle valve position | mm  | 1.3       | 1.4              | ←                 | 1.5               | 1.6               | 1.7                | —   |

MAIN JET CHART

| Altitude         |  | Sea Level | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty |
|------------------|--|-----------|------------------|-------------------|-------------------|-------------------|--------------------|-----|
| Temperature      |  |           |                  |                   |                   |                   |                    |     |
| - 40°C<br>- 40°F |  | 240       | 230              | 210               | 185               | 180               | 170                | 1   |
| - 30°C<br>- 20°F |  | 230       | 220              | 200               | 180               | 170               | 160                | 1   |
| - 20°C<br>- 4°F  |  | 220       | 210              | 190               | 170               | 160               | 150                | 1   |
| - 10°C<br>14°F   |  | 210       | 200              | 180               | 165               | 155               | 145                | 1   |
| 0°C<br>32°F      |  | 200       | 190              | 170               | 160               | 150               | 140                | 1   |
| 10°C<br>50°F     |  | 190       | 180              | 160               | 150               | 145               | 135                | 1   |
| 20°C<br>70°F     |  | 180       | 170              | 150               | 140               | 140               | 130                | 1   |

NOTE: Arrows in the charts indicate that the preceding information is repeated.

# 1996-SKANDIC 380

## HIGH ALTITUDE KIT (P/N 861 7518 00)

### DRIVE PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>             | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> | <b>Qty</b> |
|-------------------------------------|------------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|------------|
| Spring                              | Yellow/Green<br>*417 1185 00 | ←                              | Red/Blue<br>*417 1184 00        | ←                               | ←                               | ←                                | 1          |
| Block                               | 417 1181 00                  | ←                              | ←                               | ←                               | ←                               | ←                                | 3          |
| Weight                              | 1 of<br>417 1204 00          | ←                              | 5 of<br>417 1144 00             | 4 of<br>←                       | 3 of<br>←                       | 2 of<br>←                        | x 3        |
| Capsule                             | 1                            | ←                              | ←                               | ←                               | ←                               | ←                                | x 3        |
| Engagement<br>RPM ± 100             | 2900                         | ←                              | 3100                            | ←                               | ←                               | ←                                | —          |
| Maximum<br>RPM ± 100                | 6900                         | ←                              | ←                               | ←                               | ←                               | ←                                | —          |

\*NOTE: The spring is painted VIOLET **not** the normal black.

### DRIVEN PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>     | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2000 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|----------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | Orange               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Spring tension                      | Kg ± 0.7<br>lb ± 1.5 | 4.8<br>10.6                    | 5.5<br>12.1                     | ←                               | ←                               | ←                                |
| Cam angle                           | °<br>(degrees)       | 44                             | ←                               | ←                               | ←                               | ←                                |

### CHAINCASE and DRIVE AXLE

| <b>Altitude</b><br><b>Gearing</b>    | <b>Sea Level</b> | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|--------------------------------------|------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Top sprocket                         | 21               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Bottom sprocket                      | 44               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Chain,<br>quantity of links          | 72               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Drive sprocket,<br>quantity of teeth | 9                | —                              | —                               | —                               | —                               | —                                |

NOTE: Arrows in the charts indicate that the preceding information is repeated.

# 1996-SKANDIC 380



## CAUTION

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

### CARBURETION

| Altitude<br>Calibration      | Sea Level | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty        |
|------------------------------|-----------|------------------|-------------------|-------------------|-------------------|--------------------|------------|
| Main jet                     | 140       | 135              | 130               | 125               | 115               | 110                | 2          |
| Jet needle                   | 6DP9      | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Needle position              | 3         | ←                | ←                 | 2                 | ←                 | ←                  | —          |
| Slide cut away               | 2.5       | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Pilot jet                    | 40        | ←                | ←                 | 45                | ←                 | ←                  | 2          |
| Air screw                    | 1.25      | ←                | ←                 | .5<br>1.0         | ←                 | ←                  | PTO<br>MAG |
| Valve seat                   | 1.5       | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Needle jet                   | P-0 (159) | ←                | ←                 | O-8 (159)         | ←                 | ←                  | 2          |
| Float level                  | mm        | 23.9             | ←                 | ←                 | ←                 | ←                  | —          |
| Idle                         | RPM       | 1500-<br>1800    | ←                 | ←                 | ←                 | ←                  | —          |
| Idle throttle valve position | mm        | 1.3              | ←                 | ←                 | 1.6               | ←                  | —          |

### MAIN JET CHART

| Altitude<br>Temperature | Sea Level | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty |
|-------------------------|-----------|------------------|-------------------|-------------------|-------------------|--------------------|-----|
| – 40°C<br>– 40°F        | 150       | 145              | 140               | 135               | 125               | 120                | 2   |
| – 30°C<br>– 20°F        | 145       | 140              | 135               | 130               | 120               | 115                | 2   |
| – 20°C<br>– 4°F         | 140       | 135              | 130               | 125               | 115               | 110                | 2   |
| – 10°C<br>14°F          | 135       | 130              | 125               | 120               | 110               | 105                | 2   |
| 0°C<br>32°F             | 130       | 125              | 120               | 115               | 105               | 100                | 2   |
| 10°C<br>50°F            | 125       | 120              | 115               | 110               | 100               | 95                 | 2   |
| 20°C<br>70°F            | 120       | 115              | 110               | 105               | 95                | 90                 | 2   |

NOTE: Arrows in the charts indicate that the preceding information is repeated.

# 1996-SKANDIC 500

## HIGH ALTITUDE KIT (P/N 861 7517 00)

### DRIVE PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>          | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> | <b>Qty</b> |
|-------------------------------------|---------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|------------|
| Spring                              | Red/Orange<br>420 438 130 | ←                              | Red/Blue<br>420 438 095         | ←                               | ←                               | ←                                | 1          |
| Ramp                                | 420 480 284               | ←                              | ←                               | ←                               | ←                               | ←                                | 3          |
| Calibration screw position          | 4                         | 5                              | 3                               | 4                               | 5                               | 6                                | —          |
| Pin                                 | 420 429 140               | ←                              | ←                               | ←                               | ←                               | ←                                | 3          |
| Engagement RPM $\pm$ 100            | 3000                      | ←                              | ←                               | ←                               | ←                               | ←                                | —          |
| Maximum RPM $\pm$ 100               | 7100                      | ←                              | ←                               | ←                               | ←                               | ←                                | —          |

### DRIVEN PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>             | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2000 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|------------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | Orange                       | ←                              | ←                               | ←                               | ←                               | ←                                |
| Spring tension                      | Kg $\pm$ 0.7<br>lb $\pm$ 1.5 | 4.8<br>10.6                    | ←                               | 5.5<br>12.1                     | ←                               | ←                                |
| Cam angle                           | °<br>(degrees)               | 44                             | ←                               | ←                               | ←                               | ←                                |

### CHAINCASE and DRIVE AXLE

| <b>Altitude</b><br><b>Gearing</b> | <b>Sea Level</b> | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-----------------------------------|------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Top sprocket                      | 21               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Bottom sprocket                   | 44               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Chain, quantity of links          | 72               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Drive sprocket, quantity of teeth | 9                | —                              | —                               | —                               | —                               | —                                |

**NOTE:** Arrows in the charts indicate that the preceding information is repeated.

# 1996-SKANDIC 500



## CAUTION

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

### CARBURETION

| Altitude                        |     | Sea Level     | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty        |
|---------------------------------|-----|---------------|------------------|-------------------|-------------------|-------------------|--------------------|------------|
| Calibration                     |     |               |                  |                   |                   |                   |                    |            |
| Main jet                        |     | 190<br>180    | 180<br>170       | 170<br>160        | 150<br>140        | 140<br>130        | 130<br>120         | PTO<br>MAG |
| Jet needle                      |     | 6DH2          | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Needle position                 |     | 3             | ←                | ←                 | 2                 | ←                 | ←                  | —          |
| Slide cutaway                   |     | 2.5           | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Pilot jet                       |     | 40            | ←                | ←                 | 45                | ←                 | ←                  | 2          |
| Air screw                       |     | 1.25          | ←                | ←                 | 1.0               | ←                 | ←                  | —          |
| Valve seat                      |     | 1.5           | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Needle jet                      |     | P-0 (159)     | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Float level                     | mm  | 23.9          | ←                | ←                 | ←                 | ←                 | ←                  | —          |
| Idle                            | RPM | 1500-<br>1800 | ←                | ←                 | ←                 | ←                 | ←                  | —          |
| Idle throttle<br>valve position | mm  | 1.5           | ←                | ←                 | 1.7               | 1.8               | 1.85               | —          |

### MAIN JET CHART

| Altitude         |  | Sea Level                | 600 m<br>2000 ft         | 1200 m<br>4000 ft        | 1800 m<br>6000 ft        | 2400 m<br>8000 ft        | 3000 m<br>10000 ft       | Qty                      |
|------------------|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Temperature      |  |                          |                          |                          |                          |                          |                          |                          |
| – 40°C<br>– 40°F |  | 210<br>200               | 200<br>190               | 185<br>175               | 165<br>155               | 155<br>145               | 140<br>130               | PTO<br>MAG               |
| – 30°C<br>– 20°F |  | 200<br>190               | 190<br>180               | 175<br>165               | 155<br>145               | 145<br>135               | 135<br>125               | PTO<br>MAG               |
| – 20°C<br>– 4°F  |  | <b>190</b><br><b>180</b> | <b>180</b><br><b>170</b> | <b>170</b><br><b>160</b> | <b>150</b><br><b>140</b> | <b>140</b><br><b>130</b> | <b>130</b><br><b>120</b> | <b>PTO</b><br><b>MAG</b> |
| – 10°C<br>14°F   |  | 180<br>170               | 170<br>160               | 165<br>155               | 145<br>135               | 135<br>125               | 125<br>115               | PTO<br>MAG               |
| 0°C<br>32°F      |  | 175<br>165               | 165<br>155               | 160<br>150               | 140<br>130               | 130<br>120               | 120<br>110               | PTO<br>MAG               |
| 10°C<br>50°F     |  | 170<br>160               | 160<br>150               | 150<br>140               | 130<br>120               | 125<br>115               | 115<br>105               | PTO<br>MAG               |
| 20°C<br>70°F     |  | 165<br>155               | 155<br>145               | 145<br>135               | 125<br>115               | 120<br>110               | 110<br>100               | PTO<br>MAG               |

NOTE: Arrows in the charts indicate that the preceding information is repeated.

# 1996-TOURING E/E LT

## HIGH ALTITUDE KIT (P/N 861 7516 00)

### DRIVE PULLEY

| Altitude<br>Clutching    | Sea Level                    | 600 m<br>2000 ft | 1200 m<br>4000 ft        | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty |
|--------------------------|------------------------------|------------------|--------------------------|-------------------|-------------------|--------------------|-----|
| Spring<br>(Touring E LT) | Yellow/Green<br>*417 1185 00 | ←                | Red/Blue<br>*417 1184 00 | ←                 | ←                 | ←                  | 1   |
| Spring<br>(Touring E)    | Red/Blue<br>*417 1184 00     | ←                | ←                        | ←                 | ←                 | ←                  | 1   |
| Block                    | 417 1181 00                  | ←                | ←                        | ←                 | ←                 | ←                  | 3   |
| Weight                   | 1 of<br>417 1204 00          | ←                | 5 of<br>417 1144 00      | 4 of<br>←         | 3 of<br>←         | 2 of<br>←          | x 3 |
| Capsule                  | 1                            | ←                | ←                        | ←                 | ←                 | ←                  | x 3 |
| Engagement<br>RPM ± 100  | (E LT) 2900<br>(E) 3100      | ←                | 3100                     | ←                 | ←                 | ←                  | —   |
| Maximum<br>RPM ± 100     | 6900                         | ←                | ←                        | ←                 | ←                 | ←                  | —   |

\*NOTE: The spring is painted VIOLET **not** the normal black.

### DRIVEN PULLEY

| Altitude<br>Clutching | Sea Level            | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2000 m<br>8000 ft | 3000 m<br>10000 ft |
|-----------------------|----------------------|------------------|-------------------|-------------------|-------------------|--------------------|
| Spring                | Orange               | ←                | ←                 | ←                 | ←                 | ←                  |
| Spring<br>tension     | Kg ± 0.7<br>lb ± 1.5 | 4.8<br>10.6      | 5.5<br>12.1       | ←                 | ←                 | ←                  |
| Cam<br>angle          | °<br>(degrees)       | 44               | ←                 | ←                 | ←                 | ←                  |

### CHAINCASE and DRIVE AXLE

| Altitude<br>Gearing                  | Sea Level | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft |
|--------------------------------------|-----------|------------------|-------------------|-------------------|-------------------|--------------------|
| Top sprocket                         | 21        | ←                | ←                 | ←                 | ←                 | ←                  |
| Bottom sprocket                      | 44        | ←                | ←                 | ←                 | ←                 | ←                  |
| Chain,<br>quantity of links          | 72        | ←                | ←                 | ←                 | ←                 | ←                  |
| Drive sprocket,<br>quantity of teeth | 9         | —                | —                 | —                 | —                 | —                  |

NOTE: Arrows in the charts indicate that the preceding information is repeated.

1996-TOURING E/E LT

▼ CAUTION

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

CARBURETION

| Altitude                        |     | Sea Level     | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty        |
|---------------------------------|-----|---------------|------------------|-------------------|-------------------|-------------------|--------------------|------------|
| Calibration                     |     |               |                  |                   |                   |                   |                    |            |
| Main jet                        |     | 140           | 135              | 130               | 125               | 115               | 110                | 2          |
| Jet needle                      |     | 6DP9          | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Needle position                 |     | 3             | ←                | ←                 | 2                 | ←                 | ←                  | —          |
| Slide cutaway                   |     | 2.5           | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Pilot jet                       |     | 40            | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Air screw                       |     | 1.25          | ←                | ←                 | 0.5<br>1.0        | ←                 | ←                  | PTO<br>MAG |
| Valve seat                      |     | 1.5           | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Needle jet                      |     | P-0 (159)     | ←                | ←                 | O-8 (159)         | ←                 | ←                  | 2          |
| Float level                     | mm  | 23.9          | ←                | ←                 | ←                 | ←                 | ←                  | —          |
| Idle                            | RPM | 1500-<br>1800 | ←                | ←                 | ←                 | ←                 | ←                  | —          |
| Idle throttle<br>valve position | mm  | 1.3           | ←                | ←                 | 1.6               | ←                 | ←                  | —          |

MAIN JET CHART

| Altitude         |  | Sea Level | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty |
|------------------|--|-----------|------------------|-------------------|-------------------|-------------------|--------------------|-----|
| Temperature      |  |           |                  |                   |                   |                   |                    |     |
| - 40°C<br>- 40°F |  | 150       | 145              | 140               | 135               | 125               | 120                | 2   |
| - 30°C<br>- 20°F |  | 145       | 140              | 135               | 130               | 120               | 115                | 2   |
| - 20°C<br>- 4°F  |  | 140       | 135              | 130               | 125               | 115               | 110                | 2   |
| - 10°C<br>14°F   |  | 135       | 130              | 125               | 120               | 110               | 105                | 2   |
| 0°C<br>32°F      |  | 130       | 125              | 120               | 115               | 105               | 100                | 2   |
| 10°C<br>50°F     |  | 125       | 120              | 115               | 110               | 100               | 95                 | 2   |
| 20°C<br>70°F     |  | 120       | 115              | 110               | 105               | 95                | 90                 | 2   |

NOTE: Arrows in the charts indicate that the preceding information is repeated.

# 1996-TOURING LE

## HIGH ALTITUDE KIT (P/N 861 7515 00)

### DRIVE PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>             | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> | <b>Qty</b> |
|-------------------------------------|------------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|------------|
| Spring                              | Yellow/Violet<br>414 6784 00 | ←                              | Violet/Green<br>415 0154 00     | ←                               | ←                               | ←                                | 1          |
| Ramp                                | 420 480 227                  | ←                              | ←                               | ←                               | ←                               | ←                                | 3          |
| Calibration screw position          | 4                            | 5                              | 3                               | 4                               | 5                               | 6                                | —          |
| Pin                                 | 420 429 140                  | ←                              | ←                               | ←                               | ←                               | ←                                | 3          |
| Engagement RPM $\pm$ 100            | 3100                         | ←                              | 3500                            | ←                               | ←                               | ←                                | —          |
| Maximum RPM $\pm$ 100               | 7000                         | ←                              | ←                               | ←                               | ←                               | ←                                | —          |

### DRIVEN PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>             | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2000 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|------------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | Orange                       | ←                              | ←                               | ←                               | ←                               | ←                                |
| Spring tension                      | Kg $\pm$ 0.7<br>lb $\pm$ 1.5 | 4.8<br>10.6                    | ←                               | ←                               | ←                               | ←                                |
| Cam angle                           | °<br>(degrees)               | 44                             | ←                               | ←                               | ←                               | ←                                |

### CHAINCASE and DRIVE AXLE

| <b>Altitude</b><br><b>Gearing</b> | <b>Sea Level</b> | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-----------------------------------|------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Top sprocket                      | 21               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Bottom sprocket                   | 44               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Chain, quantity of links          | 72               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Drive sprocket, quantity of teeth | 9                | —                              | —                               | —                               | —                               | —                                |

**NOTE:** Arrows in the charts indicate that the preceding information is repeated.



CAUTION

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

CARBURETION

| Altitude                     |     | Sea Level | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty |
|------------------------------|-----|-----------|------------------|-------------------|-------------------|-------------------|--------------------|-----|
| Calibration                  |     |           |                  |                   |                   |                   |                    |     |
| Main jet                     |     | 180       | 170              | 160               | 140               | 130               | 120                | 2   |
| Jet needle                   |     | 6DH2      | ←                | ←                 | ←                 | ←                 | ←                  | 2   |
| Needle position              |     | 3         | ←                | ←                 | 2                 | ←                 | 1                  | —   |
| Slide cutaway                |     | 2.5       | ←                | ←                 | ←                 | ←                 | ←                  | 2   |
| Pilot jet                    |     | 40        | ←                | ←                 | 45                | ←                 | ←                  | 2   |
| Air screw                    |     | 2.25      | ←                | ←                 | 1.25              | 1.0               | 0.75               | —   |
| Valve seat                   |     | 1.5       | ←                | ←                 | ←                 | ←                 | ←                  | 2   |
| Needle jet                   |     | P-1 (159) | ←                | ←                 | ←                 | ←                 | ←                  | 2   |
| Float level                  | mm  | 23.9      | ←                | ←                 | ←                 | ←                 | ←                  | —   |
| Idle                         | RPM | 1500-1800 | ←                | ←                 | ←                 | ←                 | ←                  | —   |
| Idle throttle valve position | mm  | 1.8       | 1.9              | 2.0               | 2.2               | 2.3               | 2.4                | —   |

MAIN JET CHART

| Altitude         |  | Sea Level | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty |
|------------------|--|-----------|------------------|-------------------|-------------------|-------------------|--------------------|-----|
| Temperature      |  |           |                  |                   |                   |                   |                    |     |
| - 40°C<br>- 40°F |  | 195       | 185              | 175               | 155               | 145               | 135                | 2   |
| - 30°C<br>- 20°F |  | 185       | 175              | 165               | 145               | 135               | 125                | 2   |
| - 20°C<br>- 4°F  |  | 180       | 170              | 160               | 140               | 130               | 120                | 2   |
| - 10°C<br>14°F   |  | 175       | 165              | 155               | 135               | 125               | 115                | 2   |
| 0°C<br>32°F      |  | 170       | 160              | 150               | 130               | 120               | 110                | 2   |
| 10°C<br>50°F     |  | 165       | 155              | 145               | 125               | 115               | 105                | 2   |
| 20°C<br>70°F     |  | 155       | 145              | 135               | 115               | 105               | 95                 | 2   |

NOTE: Arrows in the charts indicate that the preceding information is repeated.

# 1996-TOURING SLE

## HIGH ALTITUDE KIT (P/N 861 7514 00)

### DRIVE PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>          | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> | <b>Qty</b> |
|-------------------------------------|---------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|------------|
| Spring                              | Red/Orange<br>415 0152 00 | ←                              | Red/Blue<br>414 6915 00         | ←                               | ←                               | ←                                | 1          |
| Ramp                                | 420 480 284               | ←                              | ←                               | ←                               | ←                               | ←                                | 3          |
| Calibration screw position          | 4                         | 5                              | 3                               | 4                               | 5                               | 6                                | —          |
| Pin                                 | 420 429 140               | ←                              | ←                               | ←                               | ←                               | ←                                | 3          |
| Engagement RPM $\pm$ 100            | 3000                      | ←                              | ←                               | ←                               | ←                               | ←                                | —          |
| Maximum RPM $\pm$ 100               | 7100                      | ←                              | ←                               | ←                               | ←                               | ←                                | —          |

### DRIVEN PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>             | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2000 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|------------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | Orange                       | ←                              | ←                               | ←                               | ←                               | ←                                |
| Spring tension                      | Kg $\pm$ 0.7<br>lb $\pm$ 1.5 | 4.8<br>10.6                    | ←                               | 5.5<br>12.1                     | ←                               | ←                                |
| Cam angle                           | °<br>(degrees)               | 44                             | ←                               | ←                               | ←                               | ←                                |

### CHAINCASE and DRIVE AXLE

| <b>Altitude</b><br><b>Gearing</b> | <b>Sea Level</b> | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-----------------------------------|------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Top sprocket                      | 21               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Bottom sprocket                   | 44               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Chain, quantity of links          | 72               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Drive sprocket, quantity of teeth | 9                | —                              | —                               | —                               | —                               | —                                |

**NOTE:** Arrows in the charts indicate that the preceding information is repeated.

# 1996-TOURING SLE



## CAUTION

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

### CARBURETION

| Altitude                        |     | Sea Level     | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft  | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty        |
|---------------------------------|-----|---------------|------------------|-------------------|--------------------|-------------------|--------------------|------------|
| Calibration                     |     |               |                  |                   |                    |                   |                    |            |
| Main jet                        |     | 190<br>180    | 180<br>170       | 170<br>160        | 150<br>140         | 140<br>130        | 130<br>120         | PTO<br>MAG |
| Jet needle                      |     | 6DH2          | ←                | ←                 | ←                  | ←                 | ←                  | 2          |
| Needle position                 |     | 3             | ←                | ←                 | 2                  | ←                 | ←                  | —          |
| Slide cutaway                   |     | 2.5           | ←                | ←                 | ←                  | ←                 | ←                  | 2          |
| Pilot jet                       |     | 40            | ←                | ←                 | 45                 | ←                 | ←                  | 2          |
| Air screw                       |     | 1.25          | ←                | ←                 | 1.0                | ←                 | ←                  | —          |
| Valve seat                      |     | 1.5           | ←                | ←                 | ←                  | ←                 | ←                  | 2          |
| Needle jet                      |     | P-0 (159)     | ←                | ←                 | ←                  | ←                 | ←                  | 2          |
| Float level                     | mm  | 23.9          | ←                | ←                 | ←                  | ←                 | ←                  | —          |
| Idle                            | RPM | 1500-<br>1800 | ←                | ←                 | ←                  | ←                 | ←                  | —          |
| Idle throttle<br>valve position | mm  | 1.5           | ←                | ←                 | 1.7                | 1.8               | 1.85               | —          |
| Exhaust restricting ring        |     | N/A           | ←                | ←                 | P/N<br>514 0434 00 | ←                 | ←                  | 1          |

### MAIN JET CHART

| Altitude         |  | Sea Level                | 600 m<br>2000 ft         | 1200 m<br>4000 ft        | 1800 m<br>6000 ft        | 2400 m<br>8000 ft        | 3000 m<br>10000 ft       | Qty                      |
|------------------|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Calibration      |  |                          |                          |                          |                          |                          |                          |                          |
| – 40°C<br>– 40°F |  | 210<br>200               | 200<br>190               | 185<br>175               | 165<br>155               | 155<br>145               | 140<br>130               | PTO<br>MAG               |
| – 30°C<br>– 20°F |  | 200<br>190               | 190<br>180               | 175<br>165               | 155<br>145               | 145<br>135               | 135<br>125               | PTO<br>MAG               |
| – 20°C<br>– 4°F  |  | <b>190</b><br><b>180</b> | <b>180</b><br><b>170</b> | <b>170</b><br><b>160</b> | <b>150</b><br><b>140</b> | <b>140</b><br><b>130</b> | <b>130</b><br><b>120</b> | <b>PTO</b><br><b>MAG</b> |
| – 10°C<br>14°F   |  | 180<br>170               | 170<br>160               | 165<br>155               | 145<br>135               | 135<br>125               | 125<br>115               | PTO<br>MAG               |
| 0°C<br>32°F      |  | 175<br>165               | 165<br>155               | 160<br>150               | 140<br>130               | 130<br>120               | 120<br>110               | PTO<br>MAG               |
| 10°C<br>50°F     |  | 170<br>160               | 160<br>150               | 150<br>140               | 130<br>120               | 125<br>115               | 115<br>105               | PTO<br>MAG               |
| 20°C<br>70°F     |  | 165<br>155               | 155<br>145               | 145<br>135               | 125<br>115               | 120<br>110               | 110<br>100               | PTO<br>MAG               |

NOTE: Arrows in the charts indicate that the preceding information is repeated.

# 1996-GRAND TOURING 500

## HIGH ALTITUDE KIT (P/N 861 7511 00)

### DRIVE PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>          | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> | <b>Qty</b> |
|-------------------------------------|---------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|------------|
| Spring                              | Green/Blue<br>414 7682 00 | ←                              | ←                               | ←                               | ←                               | ←                                | 1          |
| Ramp                                | 420 480 228               | ←                              | ←                               | ←                               | ←                               | ←                                | 3          |
| Calibration<br>screw position       | 3                         | 4                              | 2                               | 3                               | 4                               | 5                                | —          |
| Pin                                 | 504 2596 00               | ←                              | 420 429 140                     | ←                               | ←                               | ←                                | 3          |
| Engagement<br>RPM ± 100             | 4100                      | ←                              | 4400                            | ←                               | ←                               | ←                                | —          |
| Maximum<br>RPM ± 100                | 7500                      | ←                              | ←                               | ←                               | ←                               | ←                                | —          |

### DRIVEN PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>     | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2000 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|----------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | Beige                | ←                              | ←                               | ←                               | ←                               | ←                                |
| Spring<br>tension                   | Kg ± 0.7<br>lb ± 1.5 | 6.1<br>13.4                    | ←                               | 6.8<br>15.0                     | ←                               | ←                                |
| Cam<br>angle                        | °<br>(degrees)       | 44                             | ←                               | ←                               | ←                               | ←                                |

### CHAINCASE and DRIVE AXLE

| <b>Altitude</b><br><b>Gearing</b>    | <b>Sea Level</b> | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|--------------------------------------|------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Top sprocket                         | 23               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Bottom sprocket                      | 44               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Chain,<br>quantity of links          | 72               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Drive sprocket,<br>quantity of teeth | 9                | —                              | —                               | —                               | —                               | —                                |

**NOTE:** Arrows in the charts indicate that the preceding information is repeated.

# 1996-GRAND TOURING 500



## CAUTION

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

### CARBURETION

| Altitude                     |     | Sea Level | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty |
|------------------------------|-----|-----------|------------------|-------------------|-------------------|-------------------|--------------------|-----|
| Calibration                  |     |           |                  |                   |                   |                   |                    |     |
| Main jet                     |     | 320       | 300              | 280               | 260               | 240               | 220                | 2   |
| Jet needle                   |     | 6FEY1     | ←                | ←                 | ←                 | ←                 | ←                  | 2   |
| Needle position              |     | 3         | ←                | ←                 | 2                 | ←                 | ←                  | —   |
| Slide cutaway                |     | 2.5       | ←                | ←                 | ←                 | ←                 | ←                  | 2   |
| Pilot jet                    |     | 45        | ←                | ←                 | ←                 | ←                 | ←                  | 2   |
| Air screw                    |     | 1.75      | ←                | ←                 | 1.25              | ←                 | ←                  | —   |
| Valve seat                   |     | 1.5       | ←                | ←                 | ←                 | ←                 | ←                  | 2   |
| Needle jet                   |     | P-7 (480) | ←                | ←                 | P-5 (480)         | ←                 | P-3 (480)          | 2   |
| Float level                  | mm  | 18.1      | ←                | ←                 | ←                 | ←                 | ←                  | —   |
| Idle                         | RPM | 1700-1900 | ←                | ←                 | ←                 | ←                 | ←                  | —   |
| Idle throttle valve position | mm  | 1.8       | ←                | 1.9               | 2.0               | 2.1               | 2.2                | —   |

### MAIN JET CHART

| Altitude         |  | Sea Level | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty |
|------------------|--|-----------|------------------|-------------------|-------------------|-------------------|--------------------|-----|
| Temperature      |  |           |                  |                   |                   |                   |                    |     |
| - 40°C<br>- 40°F |  | 340       | 320              | 300               | 280               | 260               | 240                | 2   |
| - 30°C<br>- 20°F |  | 330       | 310              | 290               | 270               | 250               | 230                | 2   |
| - 20°C<br>- 4°F  |  | 320       | 300              | 280               | 260               | 240               | 220                | 2   |
| - 10°C<br>14°F   |  | 310       | 290              | 270               | 250               | 230               | 210                | 2   |
| 0°C<br>32°F      |  | 300       | 280              | 260               | 240               | 220               | 200                | 2   |
| 10°C<br>50°F     |  | 290       | 270              | 250               | 230               | 210               | 190                | 2   |
| 20°C<br>70°F     |  | 280       | 260              | 240               | 220               | 200               | 180                | 2   |

NOTE: Arrows in the charts indicate that the preceding information is repeated.

# 1996-GRAND TOURING 580

## HIGH ALTITUDE KIT (P/N 861 7510 00)

### DRIVE PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>          | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> | <b>Qty</b> |
|-------------------------------------|---------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|------------|
| Spring                              | Yellow/Red<br>414 9930 00 | ←                              | ←                               | Blue/Orange<br>414 6390 00      | ←                               | ←                                | 1          |
| Ramp                                | 420 480 228               | ←                              | ←                               | ←                               | ←                               | ←                                | 3          |
| Calibration<br>screw position       | 3                         | 4                              | 5                               | 3                               | 4                               | 5                                | —          |
| Pin                                 | 420 429 140               | ←                              | ←                               | ←                               | ←                               | ←                                | 3          |
| Engagement<br>RPM ± 100             | 3200                      | ←                              | ←                               | ←                               | ←                               | ←                                | —          |
| Maximum<br>RPM ± 100                | 7300                      | ←                              | ←                               | ←                               | ←                               | ←                                | —          |

### DRIVEN PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>     | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2000 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|----------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | Beige                | ←                              | ←                               | ←                               | ←                               | ←                                |
| Spring<br>tension                   | Kg ± 0.7<br>lb ± 1.5 | 6.1<br>13.4                    | ←                               | ←                               | ←                               | ←                                |
| Cam<br>angle                        | °<br>(degrees)       | 50                             | ←                               | ←                               | 44                              | ←                                |

### CHAINCASE and DRIVE AXLE

| <b>Altitude</b><br><b>Gearing</b>    | <b>Sea Level</b> | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|--------------------------------------|------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Top sprocket                         | 25               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Bottom sprocket                      | 44               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Chain,<br>quantity of links          | 74               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Drive sprocket,<br>quantity of teeth | 9                | —                              | —                               | —                               | —                               | —                                |

**NOTE:** Arrows in the charts indicate that the preceding information is repeated.

# 1996-GRAND TOURING 580



## CAUTION

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

### CARBURETION

| Altitude<br>Calibration         |     | Sea Level     | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty        |
|---------------------------------|-----|---------------|------------------|-------------------|-------------------|-------------------|--------------------|------------|
| Main jet                        |     | 360<br>370    | 340<br>350       | 320<br>330        | 300<br>310        | 280<br>290        | 260<br>270         | PTO<br>MAG |
| Jet needle                      |     | 6DHN44        | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Needle position                 |     | 4             | ←                | ←                 | 3                 | ←                 | ←                  | —          |
| Slide cutaway                   |     | 2.5           | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Pilot jet                       |     | 40            | ←                | ←                 | 50                | ←                 | ←                  | 2          |
| Air screw                       |     | 1.25          | ←                | ←                 | 1.5               | ←                 | ←                  | —          |
| Valve seat                      |     | 1.5           | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Needle jet                      |     | O-4 (480)     | ←                | ←                 | O-3 (480)         | ←                 | ←                  | 2          |
| Float level                     | mm  | 18.1          | ←                | ←                 | ←                 | ←                 | ←                  | —          |
| Idle                            | RPM | 1800-<br>2000 | ←                | ←                 | ←                 | ←                 | ←                  | —          |
| Idle throttle<br>valve position | mm  | 1.5           | ←                | 1.6               | 1.65              | 1.7               | 1.75               | —          |

### MAIN JET CHART

| Altitude<br>Temperature |  | Sea Level  | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty        |
|-------------------------|--|------------|------------------|-------------------|-------------------|-------------------|--------------------|------------|
| – 40°C<br>– 40°F        |  | 390        | 270              | 350               | 330               | 310               | 290                | PTO        |
|                         |  | 400        | 380              | 360               | 350               | 320               | 300                | MAG        |
| – 30°C<br>– 20°F        |  | 370        | 350              | 330               | 310               | 290               | 270                | PTO        |
|                         |  | 380        | 360              | 340               | 320               | 300               | 280                | MAG        |
| – 20°C<br>– 4°F         |  | <b>360</b> | <b>340</b>       | <b>320</b>        | <b>300</b>        | <b>280</b>        | <b>260</b>         | <b>PTO</b> |
|                         |  | <b>370</b> | <b>350</b>       | <b>330</b>        | <b>310</b>        | <b>290</b>        | <b>270</b>         | <b>MAG</b> |
| – 10°C<br>14°F          |  | 350        | 330              | 310               | 290               | 270               | 250                | PTO        |
|                         |  | 360        | 340              | 320               | 300               | 280               | 260                | MAG        |
| 0°C<br>32°F             |  | 340        | 320              | 300               | 280               | 260               | 240                | PTO        |
|                         |  | 350        | 330              | 310               | 290               | 270               | 250                | MAG        |
| 10°C<br>50°F            |  | 330        | 310              | 290               | 270               | 250               | 230                | PTO        |
|                         |  | 340        | 320              | 300               | 280               | 260               | 240                | MAG        |
| 20°C<br>70°F            |  | 310        | 290              | 270               | 250               | 240               | 220                | PTO        |
|                         |  | 320        | 300              | 280               | 260               | 250               | 230                | MAG        |

NOTE: Arrows in the charts indicate that the preceding information is repeated.

# 1996-GRAND TOURING SE

## HIGH ALTITUDE KIT (P/N 861 7509 00)

### DRIVE PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>             | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> | <b>Qty</b> |
|-------------------------------------|------------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|------------|
| Spring                              | Yellow/Orange<br>414 6897 00 | ←                              | ←                               | Violet/Yellow<br>415 0153 00    | ←                               | ←                                | 1          |
| Ramp                                | 420 480 280                  | ←                              | ←                               | 420 480 286                     | ←                               | ←                                | 3          |
| Calibration<br>screw position       | 3                            | 4                              | 5                               | 4                               | 5                               | 6                                | —          |
| Pin                                 | 420 429 140                  | ←                              | ←                               | ←                               | ←                               | ←                                | 3          |
| Engagement<br>RPM ± 100             | 3500                         | ←                              | ←                               | 3800                            | ←                               | ←                                | —          |
| Maximum<br>RPM ± 100                | 7700                         | ←                              | ←                               | ←                               | ←                               | ←                                | —          |

### DRIVEN PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>     | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2000 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|----------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | Beige                | ←                              | ←                               | ←                               | ←                               | ←                                |
| Spring<br>tension                   | Kg ± 0.7<br>lb ± 1.5 | 6.1<br>13.4                    | ←                               | ←                               | ←                               | ←                                |
| Cam<br>angle                        | °<br>(degrees)       | 47                             | ←                               | ←                               | ←                               | ←                                |

### CHAINCASE and DRIVE AXLE

| <b>Altitude</b><br><b>Gearing</b>    | <b>Sea Level</b> | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|--------------------------------------|------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Top sprocket                         | 25               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Bottom sprocket                      | 44               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Chain,<br>quantity of links          | 74               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Drive sprocket,<br>quantity of teeth | 9                | —                              | —                               | —                               | —                               | —                                |

**NOTE:** Arrows in the charts indicate that the preceding information is repeated.

# 1996-GRAND TOURING SE



## CAUTION

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

### CARBURETION

| Altitude                        |     | Sea Level     | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty |
|---------------------------------|-----|---------------|------------------|-------------------|-------------------|-------------------|--------------------|-----|
| Calibration                     |     |               |                  |                   |                   |                   |                    |     |
| Main jet                        |     | 360           | 330              | 300               | 280               | 260               | 240                | 2   |
| Jet needle                      |     | 7EDY1         | ←                | ←                 | ←                 | ←                 | ←                  | 2   |
| Needle position                 |     | 3             | ←                | 2                 | ←                 | ←                 | 1                  | —   |
| Slide cutaway                   |     | 2.5           | ←                | ←                 | ←                 | ←                 | ←                  | 2   |
| Pilot jet                       |     | 50            | ←                | ←                 | ←                 | ←                 | ←                  | 2   |
| Air screw                       |     | 2.25          | ←                | 2.0               | 1.75              | 1.5               | 1.125              | —   |
| Valve seat                      |     | 1.5           | ←                | ←                 | ←                 | ←                 | ←                  | 2   |
| Needle jet                      |     | AA-3<br>(224) | ←                | ←                 | ←                 | ←                 | ←                  | 2   |
| Float level                     | mm  | 18.1          | ←                | ←                 | ←                 | ←                 | ←                  | —   |
| Idle                            | RPM | 1800-<br>2000 | ←                | ←                 | ←                 | ←                 | ←                  | —   |
| Idle throttle<br>valve position | mm  | 1.9           | 2.15             | 2.25              | 2.4               | 2.55              | 2.65               | —   |

### MAIN JET CHART

| Altitude         |  | Sea Level | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty |
|------------------|--|-----------|------------------|-------------------|-------------------|-------------------|--------------------|-----|
| Temperature      |  |           |                  |                   |                   |                   |                    |     |
| - 40°C<br>- 40°F |  | 380       | 350              | 320               | 300               | 280               | 260                | 2   |
| - 30°C<br>- 20°F |  | 370       | 340              | 310               | 290               | 270               | 250                | 2   |
| - 20°C<br>- 4°F  |  | 360       | 330              | 300               | 280               | 260               | 240                | 2   |
| - 10°C<br>14°F   |  | 350       | 320              | 300               | 280               | 260               | 240                | 2   |
| 0°C<br>32°F      |  | 340       | 310              | 290               | 270               | 250               | 230                | 2   |
| 10°C<br>50°F     |  | 340       | 310              | 290               | 270               | 250               | 230                | 2   |
| 20°C<br>70°F     |  | 330       | 300              | 280               | 260               | 240               | 220                | 2   |

NOTE: Arrows in the charts indicate that the preceding information is repeated.

**HIGH ALTITUDE KIT (P/N 861 7508 00)****DRIVE PULLEY**

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>          | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> | <b>Qty</b> |
|-------------------------------------|---------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|------------|
| Spring                              | Pink/White<br>414 9914 00 | ←                              | Green/Pink<br>414 7569 00       | ←                               | ←                               | ←                                | 1          |
| Ramp                                | 420 480 283               | ←                              | 420 480 289                     | ←                               | ←                               | ←                                | 3          |
| Calibration<br>screw position       | 3                         | 4                              | 2                               | 3                               | 4                               | 5                                | —          |
| Pin                                 | 420 429 140               | ←                              | ←                               | ←                               | ←                               | ←                                | 3          |
| Engagement<br>RPM ± 100             | 4400                      | ←                              | ←                               | ←                               | ←                               | ←                                | —          |
| Maximum<br>RPM ± 100                | 8000                      | ←                              | ←                               | ←                               | ←                               | ←                                | —          |

**DRIVEN PULLEY**

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>     | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2000 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|----------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | Beige                | ←                              | ←                               | ←                               | ←                               | ←                                |
| Spring<br>tension                   | Kg ± 0.7<br>lb ± 1.5 | 6.1<br>13.4                    | ←                               | ←                               | ←                               | ←                                |
| Cam<br>angle                        | °<br>(degrees)       | 44                             | ←                               | ←                               | ←                               | ←                                |

**CHAINCASE and DRIVE AXLE**

| <b>Altitude</b><br><b>Gearing</b>    | <b>Sea Level</b> | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|--------------------------------------|------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Top sprocket                         | 23               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Bottom sprocket                      | 44               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Chain,<br>quantity of links          | 72               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Drive sprocket,<br>quantity of teeth | 9                | —                              | —                               | —                               | —                               | —                                |

**NOTE:** Arrows in the charts indicate that the preceding information is repeated.



CAUTION

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

CARBURETION

| Altitude                        |     | Sea Level     | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty        |
|---------------------------------|-----|---------------|------------------|-------------------|-------------------|-------------------|--------------------|------------|
| Calibration                     |     |               |                  |                   |                   |                   |                    |            |
| Main jet                        |     | 230<br>210    | 220<br>200       | 210<br>190        | 190<br>170        | 175<br>155        | 165<br>145         | PTO<br>MAG |
| Jet needle                      |     | 6FJ43         | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Needle position                 |     | 2             | ←                | ←                 | ←                 | ←                 | ←                  | —          |
| Slide cutaway                   |     | 2.5           | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Pilot jet                       |     | 40            | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Air screw                       |     | .5            | ←                | ←                 | .75               | ←                 | ←                  | —          |
| Valve seat                      |     | 1.5           | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Needle jet                      |     | P-8 (159)     | ←                | P-6 (159)         | P-5 (159)         | ←                 | ←                  | 2          |
| Float level                     | mm  | 23.9          | ←                | ←                 | ←                 | ←                 | ←                  | —          |
| Idle                            | RPM | 1600-<br>1800 | ←                | ←                 | ←                 | ←                 | ←                  | —          |
| Idle throttle<br>valve position | mm  | 1.8           | ←                | 1.9               | 2.0               | 2.1               | 2.2                | —          |

MAIN JET CHART

| Altitude         |  | Sea Level | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty |
|------------------|--|-----------|------------------|-------------------|-------------------|-------------------|--------------------|-----|
| Temperature      |  |           |                  |                   |                   |                   |                    |     |
| – 40°C<br>– 40°F |  | 250       | 240              | 230               | 210               | 195               | 185                | PTO |
|                  |  | 230       | 220              | 210               | 200               | 175               | 165                | MAG |
| – 30°C<br>– 20°F |  | 240       | 230              | 220               | 200               | 185               | 175                | PTO |
|                  |  | 220       | 210              | 200               | 180               | 165               | 155                | MAG |
| – 20°C<br>– 4°F  |  | 230       | 220              | 210               | 190               | 175               | 165                | PTO |
|                  |  | 210       | 200              | 190               | 170               | 155               | 145                | MAG |
| – 10°C<br>14°F   |  | 220       | 210              | 200               | 180               | 165               | 155                | PTO |
|                  |  | 200       | 190              | 180               | 160               | 145               | 135                | MAG |
| 0°C<br>32°F      |  | 210       | 200              | 190               | 170               | 155               | 145                | PTO |
|                  |  | 190       | 180              | 170               | 150               | 135               | 125                | MAG |
| 10°C<br>50°F     |  | 200       | 190              | 180               | 160               | 145               | 135                | PTO |
|                  |  | 180       | 170              | 160               | 140               | 125               | 115                | MAG |
| 20°C<br>70°F     |  | 190       | 180              | 170               | 150               | 135               | 125                | PTO |
|                  |  | 170       | 160              | 150               | 130               | 115               | 105                | MAG |

NOTE: Arrows in the charts indicate that the preceding information is repeated.

**HIGH ALTITUDE KIT (P/N 861 7507 00)****DRIVE PULLEY**

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>          | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> | <b>Qty</b> |
|-------------------------------------|---------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|------------|
| Spring                              | Green/Blue<br>414 7682 00 | ←                              | Violet/Blue<br>415 0349 00      | ←                               | ←                               | ←                                | 1          |
| Ramp                                | 420 480 286               | ←                              | 420 480 289                     | ←                               | ←                               | ←                                | 3          |
| Calibration<br>screw position       | 2                         | 3                              | 2                               | 3                               | 4                               | 5                                | —          |
| Pin                                 | 420 429 140               | ←                              | ←                               | ←                               | ←                               | ←                                | 3          |
| Engagement<br>RPM $\pm$ 100         | 4400                      | ←                              | 3800                            | ←                               | ←                               | ←                                | 3          |
| Maximum<br>RPM $\pm$ 100            | 7900                      | ←                              | ←                               | ←                               | ←                               | ←                                | —          |

**DRIVEN PULLEY**

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>             | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2000 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|------------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | Beige                        | ←                              | ←                               | ←                               | ←                               | ←                                |
| Spring<br>tension                   | Kg $\pm$ 0.7<br>lb $\pm$ 1.5 | ←                              | ←                               | ←                               | ←                               | ←                                |
| Cam<br>angle                        | °<br>(degrees)               | ←                              | ←                               | ←                               | ←                               | ←                                |

**CHAINCASE and DRIVE AXLE**

| <b>Altitude</b><br><b>Gearing</b>    | <b>Sea Level</b> | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|--------------------------------------|------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Top sprocket                         | 25               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Bottom sprocket                      | 44               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Chain,<br>quantity of links          | 74               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Drive sprocket,<br>quantity of teeth | 9                | —                              | —                               | —                               | —                               | —                                |

**NOTE:** Arrows in the charts indicate that the preceding information is repeated.



CAUTION

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

CARBURETION

| Altitude                        |     | Sea Level     | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty        |
|---------------------------------|-----|---------------|------------------|-------------------|-------------------|-------------------|--------------------|------------|
| Calibration                     |     |               |                  |                   |                   |                   |                    |            |
| Main jet                        |     | 270<br>260    | 250<br>240       | 230<br>220        | 210<br>200        | 190<br>180        | 180<br>170         | PTO<br>MAG |
| Jet needle                      |     | 7ECY1         | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Needle position                 |     | 3             | ←                | ←                 | 2                 | ←                 | ←                  | —          |
| Slide cutaway                   |     | 2.5           | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Pilot jet                       |     | 45            | ←                | ←                 | 55                | ←                 | ←                  | 2          |
| Air screw                       |     | 1.875         | ←                | ←                 | 1.5               | 1.25              | .75                | —          |
| Valve seat                      |     | 1.5           | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Needle jet                      |     | AA-2<br>(224) | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Float level                     | mm  | 18.1          | ←                | ←                 | ←                 | ←                 | ←                  | —          |
| Idle                            | RPM | 1800-<br>2000 | ←                | ←                 | ←                 | ←                 | ←                  | —          |
| Idle throttle<br>valve position | mm  | 1.5           | 1.6              | 1.7               | 1.8               | 1.9               | 2.0                | —          |

MAIN JET CHART

| Altitude         | Sea Level  | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty        |
|------------------|------------|------------------|-------------------|-------------------|-------------------|--------------------|------------|
| Temperature      |            |                  |                   |                   |                   |                    |            |
| – 40°C<br>– 40°F | 290<br>280 | 270<br>260       | 250<br>240        | 230<br>220        | 210<br>200        | 200<br>190         | PTO<br>MAG |
| – 30°C<br>– 20°F | 280<br>270 | 260<br>250       | 240<br>230        | 220<br>210        | 200<br>190        | 190<br>180         | PTO<br>MAG |
| – 20°C<br>– 4°F  | 270<br>260 | 250<br>240       | 230<br>220        | 210<br>200        | 190<br>180        | 180<br>170         | PTO<br>MAG |
| – 10°C<br>14°F   | 260<br>250 | 240<br>230       | 220<br>210        | 200<br>190        | 185<br>175        | 175<br>165         | PTO<br>MAG |
| 0°C<br>32°F      | 255<br>245 | 235<br>225       | 215<br>205        | 195<br>185        | 175<br>165        | 165<br>155         | PTO<br>MAG |
| 10°C<br>50°F     | 245<br>235 | 225<br>215       | 205<br>195        | 185<br>175        | 165<br>155        | 155<br>145         | PTO<br>MAG |
| 20°C<br>70°F     | 235<br>225 | 215<br>205       | 195<br>185        | 175<br>165        | 155<br>145        | 145<br>135         | PTO<br>MAG |

NOTE: Arrows in the charts indicate that the preceding information is repeated.

# 1996-FORMULA S

## HIGH ALTITUDE KIT (P/N 861 7513 00)

### DRIVE PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>       | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> | <b>Qty</b> |
|-------------------------------------|------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|------------|
| Spring                              | Violet<br>*417 1184 00 | ←                              | ←                               | ←                               | ←                               | ←                                | 1          |
| Block                               | 417 1181 00            | ←                              | ←                               | ←                               | ←                               | ←                                | 3          |
| Weight                              | 1 of<br>417 1204 00    | ←                              | 5 of<br>417 1144 00             | 4 of<br>←                       | 3 of<br>←                       | 2 of<br>←                        | x 3        |
| Capsule                             | 1                      | ←                              | ←                               | ←                               | ←                               | ←                                | x 3        |
| Engagement<br>RPM ± 100             | 3100                   | ←                              | ←                               | ←                               | ←                               | ←                                | —          |
| Maximum<br>RPM ± 100                | 6900                   | ←                              | ←                               | ←                               | ←                               | ←                                | —          |

\*NOTE: The spring is painted VIOLET **not** the normal black.

### DRIVEN PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>     | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2000 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|----------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | Orange               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Spring<br>tension                   | Kg ± 0.7<br>lb ± 1.5 | 4.8<br>10.6                    | 5.5<br>12.1                     | ←                               | ←                               | ←                                |
| Cam<br>angle                        | °<br>(degrees)       | 44                             | ←                               | ←                               | ←                               | ←                                |

### CHAINCASE and DRIVE AXLE

| <b>Altitude</b><br><b>Gearing</b>    | <b>Sea Level</b> | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|--------------------------------------|------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Top sprocket                         | 21               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Bottom sprocket                      | 44               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Chain,<br>quantity of links          | 72               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Drive sprocket,<br>quantity of teeth | 9                | —                              | —                               | —                               | —                               | —                                |

NOTE: Arrows in the charts indicate that the preceding information is repeated.

# 1996-FORMULA S



## CAUTION

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

### CARBURETION

| Altitude                        |     | Sea Level     | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty        |
|---------------------------------|-----|---------------|------------------|-------------------|-------------------|-------------------|--------------------|------------|
| Calibration                     |     |               |                  |                   |                   |                   |                    |            |
| Main jet                        |     | 140           | 135              | 130               | 125               | 115               | 110                | 2          |
| Jet needle                      |     | 6DP9          | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Needle position                 |     | 3             | ←                | ←                 | 2                 | ←                 | ←                  | —          |
| Slide cutaway                   |     | 2.5           | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Pilot jet                       |     | 40            | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Air screw                       |     | 1.25          | ←                | ←                 | .5<br>1.0         | ←                 | ←                  | PTO<br>MAG |
| Valve seat                      |     | 1.5           | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Needle jet                      |     | P-0 (159)     | ←                | ←                 | O-8 (159)         | ←                 | ←                  | 2          |
| Float level                     | mm  | 23.9          | ←                | ←                 | ←                 | ←                 | ←                  | —          |
| Idle                            | RPM | 1500-<br>1800 | ←                | ←                 | ←                 | ←                 | ←                  | —          |
| Idle throttle<br>valve position | mm  | 1.3           | ←                | ←                 | 1.6               | ←                 | ←                  | —          |

### MAIN JET CHART

| Altitude         |  | Sea Level | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty |
|------------------|--|-----------|------------------|-------------------|-------------------|-------------------|--------------------|-----|
| Temperature      |  |           |                  |                   |                   |                   |                    |     |
| - 40°C<br>- 40°F |  | 150       | 145              | 140               | 135               | 125               | 120                | 2   |
| - 30°C<br>- 20°F |  | 145       | 140              | 135               | 130               | 120               | 115                | 2   |
| - 20°C<br>- 4°F  |  | 140       | 135              | 130               | 125               | 115               | 110                | 2   |
| - 10°C<br>14°F   |  | 135       | 130              | 125               | 120               | 110               | 105                | 2   |
| 0°C<br>32°F      |  | 130       | 125              | 120               | 115               | 105               | 100                | 2   |
| 10°C<br>50°F     |  | 125       | 120              | 115               | 110               | 100               | 95                 | 2   |
| 20°C<br>70°F     |  | 120       | 115              | 110               | 105               | 95                | 90                 | 2   |

NOTE: Arrows in the charts indicate that the preceding information is repeated.

# 1996-FORMULA SL

## HIGH ALTITUDE KIT (P/N 861 7512 00)

### DRIVE PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>           | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> | <b>Qty</b> |
|-------------------------------------|----------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|------------|
| Spring                              | Blue/Yellow<br>414 6895 00 | ←                              | Blue/Blue<br>414 6894 00        | ←                               | ←                               | ←                                | 1          |
| Ramp                                | 420 480 284                | ←                              | ←                               | ←                               | ←                               | ←                                | 3          |
| Calibration<br>screw position       | 3                          | 4                              | 2                               | 3                               | 4                               | 5                                | —          |
| Pin                                 | 420 429 140                | ←                              | ←                               | ←                               | ←                               | ←                                | 3          |
| Engagement<br>RPM ± 100             | 3600                       | ←                              | ←                               | ←                               | ←                               | ←                                | —          |
| Maximum<br>RPM ± 100                | 7100                       | ←                              | ←                               | ←                               | ←                               | ←                                | —          |

### DRIVEN PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>     | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2000 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|----------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | Orange               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Spring<br>tension                   | Kg ± 0.7<br>lb ± 1.5 | 4.8<br>10.6                    | ←                               | 5.5<br>12.1                     | ←                               | ←                                |
| Cam<br>angle                        | °<br>(degrees)       | 44                             | ←                               | ←                               | ←                               | ←                                |

**NOTE:** Arrows in the charts indicate that the preceding information is repeated.

1996-FORMULA SL

▼ CAUTION

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

CARBURETION

| Altitude                        |     | Sea Level     | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft  | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty        |
|---------------------------------|-----|---------------|------------------|-------------------|--------------------|-------------------|--------------------|------------|
| Calibration                     |     |               |                  |                   |                    |                   |                    |            |
| Main jet                        |     | 190<br>180    | 180<br>170       | 170<br>160        | 150<br>140         | 140<br>130        | 130<br>120         | PTO<br>MAG |
| Jet needle                      |     | 6DH2          | ←                | ←                 | ←                  | ←                 | ←                  | 2          |
| Needle position                 |     | 3             | ←                | ←                 | 2                  | ←                 | ←                  | —          |
| Slide cutaway                   |     | 2.5           | ←                | ←                 | ←                  | ←                 | ←                  | 2          |
| Pilot jet                       |     | 40            | ←                | ←                 | 45                 | ←                 | ←                  | 2          |
| Air screw                       |     | 1.25          | ←                | ←                 | 1.0                | ←                 | ←                  | —          |
| Valve seat                      |     | 1.5           | ←                | ←                 | ←                  | ←                 | ←                  | 2          |
| Needle jet                      |     | P-0<br>(159)  | ←                | ←                 | ←                  | ←                 | ←                  | 2          |
| Float level                     | mm  | 23.9          | ←                | ←                 | ←                  | ←                 | ←                  | —          |
| Idle                            | RPM | 1500-<br>1800 | ←                | ←                 | ←                  | ←                 | ←                  | —          |
| Idle throttle<br>valve position | mm  | 1.5           | ←                | ←                 | 1.7                | 1.8               | 1.85               | —          |
| Exhaust restricting ring        |     | N/A           | ←                | ←                 | P/N<br>514 0434 00 | ←                 | ←                  | 1          |

MAIN JET CHART

| Altitude         |  | Sea Level  | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty        |
|------------------|--|------------|------------------|-------------------|-------------------|-------------------|--------------------|------------|
| Calibration      |  |            |                  |                   |                   |                   |                    |            |
| – 40°C<br>– 40°F |  | 210<br>200 | 200<br>190       | 185<br>175        | 165<br>155        | 155<br>145        | 140<br>130         | PTO<br>MAG |
| – 30°C<br>– 20°F |  | 200<br>190 | 190<br>180       | 175<br>165        | 155<br>145        | 145<br>135        | 135<br>125         | PTO<br>MAG |
| – 20°C<br>– 4°F  |  | 190<br>180 | 180<br>170       | 170<br>160        | 150<br>140        | 140<br>130        | 130<br>120         | PTO<br>MAG |
| – 10°C<br>14°F   |  | 180<br>170 | 170<br>160       | 165<br>155        | 145<br>135        | 135<br>125        | 125<br>115         | PTO<br>MAG |
| 0°C<br>32°F      |  | 175<br>165 | 165<br>155       | 160<br>150        | 140<br>130        | 130<br>120        | 120<br>110         | PTO<br>MAG |
| 10°C<br>50°F     |  | 170<br>160 | 160<br>150       | 150<br>140        | 130<br>120        | 125<br>115        | 115<br>105         | PTO<br>MAG |
| 20°C<br>70°F     |  | 165<br>155 | 155<br>145       | 145<br>135        | 125<br>115        | 120<br>110        | 110<br>100         | PTO<br>MAG |

NOTE: Arrows in the charts indicate that the preceding information is repeated.

# 1996-FORMULA SLS

## HIGH ALTITUDE KIT (P/N 861 7506 00)

### DRIVE PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>          | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> | <b>Qty</b> |
|-------------------------------------|---------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|------------|
| Spring                              | Green/Blue<br>420 438 194 | ←                              | Pink/White<br>414 9914 00       | ←                               | ←                               | ←                                | 1          |
| Ramp                                | 420 480 287               | ←                              | ←                               | ←                               | ←                               | ←                                | 3          |
| Calibration screw position          | 3                         | 4                              | 2                               | 3                               | 4                               | 5                                | —          |
| Pin                                 | 420 429 140               | ←                              | ←                               | ←                               | ←                               | ←                                | 3          |
| Engagement RPM $\pm$ 100            | 4500                      | ←                              | 4900                            | ←                               | ←                               | ←                                | —          |
| Maximum RPM $\pm$ 100               | 7500                      | ←                              | ←                               | ←                               | ←                               | ←                                | —          |

### DRIVEN PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>             | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2000 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|------------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | Beige                        | ←                              | ←                               | ←                               | ←                               | ←                                |
| Spring tension                      | Kg $\pm$ 0.7<br>lb $\pm$ 1.5 | 6.1<br>13.4                    | ←                               | 6.8<br>15.0                     | ←                               | ←                                |
| Cam angle                           | °<br>(degrees)               | 50                             | ←                               | ←                               | ←                               | ←                                |

### CHAINCASE and DRIVE AXLE

| <b>Altitude</b><br><b>Gearing</b> | <b>Sea Level</b> | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-----------------------------------|------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Top sprocket                      | 25               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Bottom sprocket                   | 44               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Chain, quantity of links          | 74               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Drive sprocket, quantity of teeth | 9                | —                              | —                               | —                               | —                               | —                                |

**NOTE:** Arrows in the charts indicate that the preceding information is repeated.

# 1996-FORMULA SLS



## CAUTION

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

### CARBURETION

| Altitude                     |     | Sea Level | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty |
|------------------------------|-----|-----------|------------------|-------------------|-------------------|-------------------|--------------------|-----|
| Calibration                  |     |           |                  |                   |                   |                   |                    |     |
| Main jet                     |     | 320       | 300              | 280               | 260               | 240               | 220                | 2   |
| Jet needle                   |     | 6FEY1     | ←                | ←                 | ←                 | ←                 | ←                  | 2   |
| Needle position              |     | 3         | ←                | ←                 | 2                 | ←                 | ←                  | —   |
| Slide cutaway                |     | 2.5       | ←                | ←                 | ←                 | ←                 | ←                  | 2   |
| Pilot jet                    |     | 45        | ←                | ←                 | ←                 | ←                 | ←                  | 2   |
| Air screw                    |     | 1.75      | ←                | ←                 | 1.25              | ←                 | ←                  | —   |
| Valve seat                   |     | 1.5       | ←                | ←                 | ←                 | ←                 | ←                  | 2   |
| Needle jet                   |     | P-7 (480) | ←                | ←                 | P-5 (480)         | ←                 | P-3 (480)          | 2   |
| Float level                  | mm  | 18.1      | ←                | ←                 | ←                 | ←                 | ←                  | —   |
| Idle                         | RPM | 1700-1800 | ←                | ←                 | ←                 | ←                 | ←                  | —   |
| Idle throttle valve position | mm  | 1.8       | ←                | 1.9               | 2.0               | 2.1               | 2.2                | —   |

### MAIN JET CHART

| Altitude         |  | Sea Level | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty |
|------------------|--|-----------|------------------|-------------------|-------------------|-------------------|--------------------|-----|
| Temperature      |  |           |                  |                   |                   |                   |                    |     |
| - 40°C<br>- 40°F |  | 340       | 320              | 300               | 280               | 260               | 240                | 2   |
| - 30°C<br>- 20°F |  | 330       | 310              | 290               | 270               | 250               | 230                | 2   |
| - 20°C<br>- 4°F  |  | 320       | 300              | 280               | 260               | 240               | 220                | 2   |
| - 10°C<br>14°F   |  | 310       | 290              | 270               | 250               | 230               | 210                | 2   |
| 0°C<br>32°F      |  | 300       | 280              | 260               | 240               | 220               | 200                | 2   |
| 10°C<br>50°F     |  | 290       | 270              | 250               | 230               | 210               | 190                | 2   |
| 20°C<br>70°F     |  | 280       | 260              | 240               | 220               | 200               | 180                | 2   |

NOTE: Arrows in the charts indicate that the preceding information is repeated.

# 1996-FORMULA STX/STX LT

## HIGH ALTITUDE KIT (P/N 861 7505 00)

### DRIVE PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>            | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> | <b>Qty</b> |
|-------------------------------------|-----------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|------------|
| Spring (STX)                        | Blue/Green<br>414 8177 00   | ←                              | Violet/Violet<br>414 8179 00    | ←                               | ←                               | ←                                | 1          |
| Spring (STX LT)                     | Yellow/Green<br>414 7423 00 | ←                              | Violet/Violet<br>414 8179 00    | ←                               | ←                               | ←                                | 1          |
| Ramp                                | 420 480 228                 | ←                              | ←                               | ←                               | ←                               | ←                                | 3          |
| Calibration screw position          | (STX) 4<br>(STX LT) 3       | 5                              | 3                               | 4                               | ←                               | 5                                | —          |
| Pin                                 | 420 429 140                 | ←                              | ←                               | ←                               | ←                               | ←                                | 3          |
| Engagement RPM ± 100                | (STX) 3500<br>(STX LT) 3200 | ←                              | (STX) 3800<br>(STX LT) 3800     | ←                               | ←                               | ←                                | —          |
| Maximum RPM ± 100                   | 7900                        | ←                              | ←                               | ←                               | ←                               | ←                                | —          |

### DRIVEN PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>     | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2000 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|----------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | Beige                | ←                              | ←                               | ←                               | ←                               | ←                                |
| Spring tension                      | Kg ± 0.7<br>lb ± 1.5 | 6.1<br>13.4                    | ←                               | ←                               | ←                               | ←                                |
| Cam angle                           | °<br>(degrees)       | 50                             | ←                               | ←                               | ←                               | ←                                |

### CHAINCASE and DRIVE AXLE

| <b>Altitude</b><br><b>Gearing</b> | <b>Sea Level</b>        | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-----------------------------------|-------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Top sprocket                      | (STX) 25<br>(STX LT) 23 | ←                              | ←                               | ←                               | ←                               | ←                                |
| Bottom sprocket                   | 44                      | ←                              | ←                               | ←                               | ←                               | ←                                |
| Chain, quantity of links          | (STX) 74<br>(STX LT) 72 | ←                              | ←                               | ←                               | ←                               | ←                                |
| Drive sprocket, quantity of teeth | 9                       | —                              | —                               | —                               | —                               | —                                |

**NOTE:** Arrows in the charts indicate that the preceding information is repeated.

1996-FORMULA STX/STX LT

▼ CAUTION

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

CARBURETION

| Altitude                        |     | Sea Level     | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty        |
|---------------------------------|-----|---------------|------------------|-------------------|-------------------|-------------------|--------------------|------------|
| Calibration                     |     |               |                  |                   |                   |                   |                    |            |
| Main jet                        |     | 320<br>330    | 300<br>310       | 280<br>290        | 250<br>270        | 230<br>250        | 210<br>230         | PTO<br>MAG |
| Jet needle                      |     | 6DHN44        | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Needle position                 |     | 3             | ←                | ←                 | ←                 | ←                 | ←                  | —          |
| Slide cutaway                   |     | 2.5           | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Pilot jet                       |     | 40            | ←                | ←                 | ←                 | 55                | ←                  | 2          |
| Air screw                       |     | 1.5           | ←                | ←                 | 1.5<br>1.0        | ←                 | ←                  | —          |
| Valve seat                      |     | 1.5           | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Needle jet                      |     | P-0 (480)     | ←                | ←                 | 0-4 (480)         | ←                 | ←                  | 2          |
| Float level                     | mm  | 18.1          | ←                | ←                 | ←                 | ←                 | ←                  | —          |
| Idle                            | RPM | 1800-<br>2000 | ←                | ←                 | ←                 | ←                 | ←                  | —          |
| Idle throttle<br>valve position | mm  | 1.6           | 1.65             | 1.7               | 1.75              | 1.8               | 1.85               | —          |

MAIN JET CHART

| Altitude         |  | Sea Level | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty |
|------------------|--|-----------|------------------|-------------------|-------------------|-------------------|--------------------|-----|
| Temperature      |  |           |                  |                   |                   |                   |                    |     |
| - 40°C<br>- 40°F |  | 340       | 320              | 300               | 270               | 250               | 240                | PTO |
|                  |  | 350       | 330              | 310               | 290               | 270               | 260                | MAG |
| - 30°C<br>- 20°F |  | 330       | 310              | 290               | 260               | 240               | 230                | PTO |
|                  |  | 340       | 320              | 300               | 280               | 260               | 250                | MAG |
| - 20°C<br>- 4°F  |  | 320       | 300              | 280               | 250               | 230               | 220                | PTO |
|                  |  | 330       | 310              | 290               | 270               | 250               | 240                | MAG |
| - 10°C<br>14°F   |  | 310       | 290              | 270               | 240               | 220               | 210                | PTO |
|                  |  | 320       | 300              | 280               | 260               | 240               | 230                | MAG |
| 0°C<br>32°F      |  | 300       | 280              | 260               | 230               | 210               | 200                | PTO |
|                  |  | 310       | 290              | 270               | 250               | 230               | 220                | MAG |
| 10°C<br>50°F     |  | 290       | 270              | 250               | 220               | 200               | 190                | PTO |
|                  |  | 300       | 280              | 260               | 240               | 220               | 210                | MAG |
| 20°C<br>70°F     |  | 280       | 260              | 240               | 210               | 190               | 180                | PTO |
|                  |  | 290       | 270              | 250               | 230               | 210               | 200                | MAG |

NOTE: Arrows in the charts indicate that the preceding information is repeated.

# 1996-FORMULA SS

## HIGH ALTITUDE KIT (P/N 861 7503 00)

### DRIVE PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>             | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> | <b>Qty</b> |
|-------------------------------------|------------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|------------|
| Spring                              | Violet/Yellow<br>415 0153 00 | ←                              | ←                               | ←                               | ←                               | ←                                | 1          |
| Ramp                                | 420 480 286                  | ←                              | ←                               | ←                               | ←                               | ←                                | 3          |
| Calibration<br>screw position       | 3                            | 4                              | 5                               | 4                               | 5                               | 6                                | —          |
| Pin                                 | 504 259 600                  | ←                              | ←                               | 420 429 140                     | ←                               | ←                                | 3          |
| Engagement<br>RPM ± 100             | 3800                         | ←                              | ←                               | 4100                            | ←                               | ←                                | —          |
| Maximum<br>RPM ± 100                | 7700                         | ←                              | ←                               | ←                               | ←                               | ←                                | —          |

### DRIVEN PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>     | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2000 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|----------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | Beige                | ←                              | ←                               | ←                               | ←                               | ←                                |
| Spring<br>tension                   | Kg ± 0.7<br>lb ± 1.5 | 6.1<br>13.4                    | ←                               | 6.8<br>15.0                     | ←                               | ←                                |
| Cam<br>angle                        | °<br>(degrees)       | 47                             | ←                               | ←                               | ←                               | ←                                |

### CHAINCASE and DRIVE AXLE

| <b>Altitude</b><br><b>Gearing</b>    | <b>Sea Level</b> | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|--------------------------------------|------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Top sprocket                         | 26               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Bottom sprocket                      | 44               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Chain,<br>quantity of links          | 74               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Drive sprocket,<br>quantity of teeth | 9                | —                              | —                               | —                               | —                               | —                                |

**NOTE:** Arrows in the charts indicate that the preceding information is repeated.

1996-FORMULA SS



CAUTION

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

CARBURETION

| Altitude                        |     | Sea Level     | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty |
|---------------------------------|-----|---------------|------------------|-------------------|-------------------|-------------------|--------------------|-----|
| Calibration                     |     |               |                  |                   |                   |                   |                    |     |
| Main jet                        |     | 360           | 330              | 300               | 280               | 260               | 240                | 2   |
| Jet needle                      |     | 7EDY1         | ←                | ←                 | ←                 | ←                 | ←                  | 2   |
| Needle position                 |     | 3             | ←                | 2                 | ←                 | ←                 | 1                  | —   |
| Slide cutaway                   |     | 2.5           | ←                | ←                 | ←                 | ←                 | ←                  | 2   |
| Pilot jet                       |     | 50            | ←                | ←                 | ←                 | ←                 | ←                  | 2   |
| Air screw                       |     | 2.25          | ←                | 2.0               | 1.75              | 1.5               | 1.125              | —   |
| Valve seat                      |     | 1.5           | ←                | ←                 | ←                 | ←                 | ←                  | 2   |
| Needle jet                      |     | AA-3<br>(224) | ←                | ←                 | ←                 | ←                 | ←                  | 2   |
| Float level                     | mm  | 18.1          | ←                | ←                 | ←                 | ←                 | ←                  | —   |
| Idle                            | RPM | 1800-<br>2000 | ←                | ←                 | ←                 | ←                 | ←                  | —   |
| Idle throttle<br>valve position | mm  | 1.9           | 2.15             | 2.25              | 2.4               | 2.55              | 2.65               | —   |

MAIN JET CHART

| Altitude         |  | Sea Level | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty |
|------------------|--|-----------|------------------|-------------------|-------------------|-------------------|--------------------|-----|
| Temperature      |  |           |                  |                   |                   |                   |                    |     |
| - 40°C<br>- 40°F |  | 380       | 350              | 320               | 300               | 280               | 260                | 2   |
| - 30°C<br>- 20°F |  | 370       | 340              | 310               | 290               | 270               | 250                | 2   |
| - 20°C<br>- 4°F  |  | 360       | 330              | 300               | 280               | 260               | 240                | 2   |
| - 10°C<br>14°F   |  | 350       | 320              | 300               | 280               | 260               | 240                | 2   |
| 0°C<br>32°F      |  | 340       | 310              | 290               | 270               | 250               | 230                | 2   |
| 10°C<br>50°F     |  | 340       | 310              | 290               | 270               | 250               | 230                | 2   |
| 20°C<br>70°F     |  | 330       | 300              | 280               | 260               | 240               | 220                | 2   |

NOTE: Arrows in the charts indicate that the preceding information is repeated.

# 1996-FORMULA Z

## HIGH ALTITUDE KIT (P/N 861 7504 00)

### DRIVE PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>      | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> | <b>Qty</b> |
|-------------------------------------|-----------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|------------|
| Spring                              | Yellow<br>414 6055 00 | ←                              | Violet/Violet<br>414 8179 00    | ←                               | ←                               | ←                                | 1          |
| Ramp                                | 420 480 228           | ←                              | ←                               | ←                               | ←                               | ←                                | 3          |
| Calibration screw position          | 4                     | 5                              | 3                               | 4                               | ←                               | 5                                | —          |
| Pin                                 | 420 429 140           | ←                              | ←                               | ←                               | ←                               | ←                                | 3          |
| Engagement RPM $\pm$ 100            | 3800                  | ←                              | ←                               | ←                               | ←                               | ←                                | —          |
| Maximum RPM $\pm$ 100               | 7900                  | ←                              | ←                               | ←                               | ←                               | ←                                | —          |

### DRIVEN PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>             | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2000 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|------------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | Beige                        | ←                              | ←                               | ←                               | ←                               | ←                                |
| Spring tension                      | Kg $\pm$ 0.7<br>lb $\pm$ 1.5 | 6.1<br>13.4                    | ←                               | ←                               | ←                               | ←                                |
| Cam angle                           | °<br>(degrees)               | 50                             | ←                               | 44                              | ←                               | ←                                |

### CHAINCASE and DRIVE AXLE

| <b>Altitude</b><br><b>Gearing</b> | <b>Sea Level</b> | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-----------------------------------|------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Top sprocket                      | 25               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Bottom sprocket                   | 44               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Chain, quantity of links          | 74               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Drive sprocket, quantity of teeth | 9                | —                              | —                               | —                               | —                               | —                                |

**NOTE:** Arrows in the charts indicate that the preceding information is repeated.

1996-FORMULA Z



CAUTION

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

CARBURETION

| Altitude                        |     | Sea Level     | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty        |
|---------------------------------|-----|---------------|------------------|-------------------|-------------------|-------------------|--------------------|------------|
| Calibration                     |     |               |                  |                   |                   |                   |                    |            |
| Main jet                        |     | 340           | 320              | 310               | 290<br>300        | 270<br>280        | 250<br>260         | PTO<br>MAG |
| Jet needle                      |     | 7DL7          | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Needle position                 |     | 3             | ←                | ←                 | ←                 | ←                 | ←                  | —          |
| Slide cutaway                   |     | 2.5           | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Pilot jet                       |     | 45            | ←                | 55                | 60                | ←                 | ←                  | 2          |
| Air screw                       |     | 1.5           | ←                | ←                 | ←                 | ←                 | ←                  | —          |
| Valve seat                      |     | 1.5           | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Needle jet                      |     | AA-2<br>(224) | ←                | Z-8<br>(224)      | ←                 | ←                 | ←                  | 2          |
| Float level                     | mm  | 18.1          | ←                | ←                 | ←                 | ←                 | ←                  | —          |
| Idle                            | RPM | 1800-<br>2000 | ←                | ←                 | ←                 | ←                 | ←                  | —          |
| Idle throttle<br>valve position | mm  | 1.8           | 1.85             | 1.9               | 1.95              | 2.0               | 2.05               | —          |

MAIN JET CHART

| Altitude         | Sea Level | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty        |
|------------------|-----------|------------------|-------------------|-------------------|-------------------|--------------------|------------|
| Temperature      |           |                  |                   |                   |                   |                    |            |
| – 40°C<br>– 40°F | 360       | 240              | 330               | 320<br>330        | 300<br>310        | 280<br>290         | PTO<br>MAG |
| – 30°C<br>– 20°F | 350       | 330              | 320               | 300<br>290        | 280<br>290        | 260<br>270         | PTO<br>MAG |
| – 20°C<br>– 4°F  | 340       | 320              | 310               | 290<br>300        | 270<br>280        | 250<br>260         | PTO<br>MAG |
| – 10°C<br>14°F   | 330       | 310              | 300               | 280<br>290        | 260<br>270        | 240<br>250         | PTO<br>MAG |
| 0°C<br>32°F      | 320       | 300              | 290               | 270<br>280        | 250<br>260        | 230<br>240         | PTO<br>MAG |
| 10°C<br>50°F     | 310       | 290              | 280               | 260<br>270        | 240<br>250        | 220<br>230         | PTO<br>MAG |
| 20°C<br>70°F     | 300       | 280              | 270               | 250<br>260        | 220<br>230        | 210<br>220         | PTO<br>MAG |

NOTE: Arrows in the charts indicate that the preceding information is repeated.

# 1996-FORMULA III AND FORMULA III LT

## HIGH ALTITUDE KIT (P/N 861 7502 00)

### DRIVE PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>          | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> | <b>Qty</b> |
|-------------------------------------|---------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|------------|
| Spring                              | Pink/White<br>420 438 193 | ←                              | ←                               | ←                               | ←                               | Violet/Pink<br>414 9495 00       | 1          |
| Ramp                                | 420 480 281               | ←                              | ←                               | ←                               | ←                               | 420 480 289                      | 3          |
| Calibration screw position          | 4                         | 5                              | 3                               | 4                               | 5                               | 6                                | —          |
| Pin                                 | 420 429 220               | ←                              | 420 429 140                     | ←                               | ←                               | ←                                | 3          |
| Engagement RPM $\pm$ 100            | 4500                      | ←                              | 4700                            | ←                               | ←                               | 4100                             | —          |
| Maximum RPM $\pm$ 100               | 8200                      | ←                              | ←                               | ←                               | ←                               | ←                                | —          |

### DRIVEN PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>             | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2000 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|------------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | Beige                        | ←                              | ←                               | ←                               | ←                               | ←                                |
| Spring tension                      | Kg $\pm$ 0.7<br>lb $\pm$ 1.5 | 6.1<br>13.4                    | 6.8<br>15.0                     | ←                               | ←                               | ←                                |
| Cam angle                           | °<br>(degrees)               | 50                             | ←                               | ←                               | ←                               | 44                               |

### CHAINCASE and DRIVE AXLE

| <b>Altitude</b><br><b>Gearing</b>         | <b>Sea Level</b> | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------------|------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Top sprocket (Formula III)                | 25               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Top sprocket (Formula III LT)             | 23               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Bottom sprocket                           | 44               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Chain, quantity of links (Formula III)    | 74               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Chain, quantity of links (Formula III LT) | 72               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Drive sprocket, quantity of teeth         | 9                | —                              | —                               | —                               | —                               | —                                |

**NOTE:** Arrows in the charts indicate that the preceding information is repeated.

1996-FORMULA III AND FORMULA III LT

▼ CAUTION

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

CARBURETION

| Altitude                        |     | Sea Level          | 600 m<br>2000 ft | 1200 m<br>4000 ft  | 1800 m<br>6000 ft  | 2400 m<br>8000 ft     | 3000 m<br>10000 ft | Qty |
|---------------------------------|-----|--------------------|------------------|--------------------|--------------------|-----------------------|--------------------|-----|
| Calibration                     |     |                    |                  |                    |                    |                       |                    |     |
| Main jet<br>PTO/Ctr/MAG         |     | 330/<br>320/330    | 300/<br>290/300  | 280/<br>270/280    | 250/<br>240/250    | 220/<br>220/220       | 200/<br>200/200    | —   |
| Jet needle                      |     | 6DEY2              | ←                | ←                  | ←                  | ←                     | ←                  | 3   |
| Needle position                 |     | 3                  | ←                | 2                  | ←                  | ←                     | 1                  | —   |
| Slide cutaway                   |     | 2.5                | ←                | ←                  | ←                  | ←                     | ←                  | —   |
| Pilot jet<br>PTO/Ctr/MAG        |     | 50/55/50           | ←                | ←                  | 60/65/60           | ←                     | ←                  | —   |
| Air screw<br>PTO/Ctr/MAG        |     | 1.50/<br>1.50/1.50 | ←                | 1.25/<br>1.25/1.25 | 1.50/<br>1.50/1.50 | 1.125/<br>1.125/1.125 | 0.75/<br>0.75/0.75 | —   |
| Valve seat                      |     | 1.5                | ←                | ←                  | ←                  | ←                     | ←                  | 3   |
| Needle jet                      |     | P-O (286)          | ←                | ←                  | ←                  | ←                     | ←                  | 3   |
| Starter jet                     |     | 1.5                | ←                | ←                  | ←                  | ←                     | ←                  | —   |
| Float level                     | mm  | 18.1               | ←                | ←                  | ←                  | ←                     | ←                  | —   |
| Idle                            | RPM | 1800-<br>2000      | ←                | ←                  | ←                  | ←                     | ←                  | —   |
| Idle throttle<br>valve position | mm  | 1.2                | 1.3              | 1.4                | 1.6                | 1.8                   | 2.0                | —   |

MAIN JET CHART

| Altitude           |  | Sea Level       | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty             |
|--------------------|--|-----------------|------------------|-------------------|-------------------|-------------------|--------------------|-----------------|
| Temperature        |  |                 |                  |                   |                   |                   |                    |                 |
| - 40°C<br>(- 40°F) |  | 350/<br>340/350 | 320/<br>310/320  | 300/<br>290/300   | 270/<br>260/270   | 240/<br>240/240   | 210/<br>210/210    | PTO/<br>Ctr/MAG |
| - 30°C<br>(- 20°F) |  | 340/<br>330/340 | 310/<br>300/310  | 290/<br>280/290   | 260/<br>250/260   | 230/<br>230/230   | 205/<br>205/205    | PTO/<br>Ctr/MAG |
| - 20°C<br>(- 4°F)  |  | 330/<br>320/330 | 300/<br>290/300  | 280/<br>270/280   | 250/<br>240/250   | 220/<br>220/220   | 200/<br>200/200    | PTO/<br>Ctr/MAG |
| - 10°C<br>(14°F)   |  | 320/<br>310/320 | 290/<br>280/290  | 270/<br>260/270   | 240/<br>230/240   | 220/<br>220/220   | 190/<br>190/190    | PTO/<br>Ctr/MAG |
| 0°C<br>(32°F)      |  | 310/<br>300/310 | 290/<br>280/290  | 260/<br>250/260   | 240/<br>230/240   | 210/<br>210/210   | 190/<br>190/190    | PTO/<br>Ctr/MAG |
| 10°C<br>(50°F)     |  | 300/<br>290/300 | 280/<br>270/280  | 250/<br>240/250   | 230/<br>230/230   | 210/<br>210/210   | 180/<br>180/180    | PTO/<br>Ctr/MAG |
| 20°C<br>(70°F)     |  | 290/<br>280/290 | 270/<br>260/270  | 240/<br>240/240   | 220/<br>220/220   | 200/<br>200/200   | 180/<br>180/180    | PTO/<br>Ctr/MAG |

NOTE: Arrows in the charts indicate that the preceding information is repeated.

# 1996-MACH 1

## HIGH ALTITUDE KIT (P/N 861 7501 00)

### DRIVE PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>          | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> | <b>Qty</b> |
|-------------------------------------|---------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|------------|
| Spring                              | Pink/White<br>414 9914 00 | ←                              | ←                               | ←                               | ←                               | ←                                | 1          |
| Ramp                                | 420 480 286               | ←                              | 420 480 283                     | ←                               | ←                               | ←                                | 3          |
| Calibration<br>screw position       | 2                         | 3                              | 2                               | 3                               | 4                               | 5                                | —          |
| Pin                                 | 504 259 600               | ←                              | 420 429 140                     | ←                               | ←                               | ←                                | 3          |
| Engagement<br>RPM ± 100             | 4500                      | ←                              | 4700                            | ←                               | ←                               | ←                                | —          |
| Maximum<br>RPM ± 100                | 8200                      | ←                              | ←                               | ←                               | ←                               | ←                                | —          |

### DRIVEN PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>     | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2000 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|----------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | Beige                | ←                              | ←                               | ←                               | ←                               | ←                                |
| Spring<br>tension                   | Kg ± 0.7<br>lb ± 1.5 | 6.1<br>13.4                    | ←                               | ←                               | ←                               | ←                                |
| Cam<br>angle                        | °<br>(degrees)       | 47                             | ←                               | ←                               | ←                               | ←                                |

### CHAINCASE and DRIVE AXLE

| <b>Altitude</b><br><b>Gearing</b>    | <b>Sea Level</b> | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|--------------------------------------|------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Top sprocket                         | 26               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Bottom sprocket                      | 44               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Chain,<br>quantity of links          | 74               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Drive sprocket,<br>quantity of teeth | 9                | —                              | —                               | —                               | —                               | —                                |

**NOTE:** Arrows in the charts indicate that the preceding information is repeated.



**CAUTION**

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

**CARBURETION**

| <b>Altitude</b>                 |     | <b>Sea Level</b> | <b>600 m<br/>2000 ft</b> | <b>1200 m<br/>4000 ft</b> | <b>1800 m<br/>6000 ft</b> | <b>2400 m<br/>8000 ft</b> | <b>3000 m<br/>10000 ft</b> | <b>Qty</b> |
|---------------------------------|-----|------------------|--------------------------|---------------------------|---------------------------|---------------------------|----------------------------|------------|
| <b>Calibration</b>              |     |                  |                          |                           |                           |                           |                            |            |
| Main jet                        |     | 420<br>400       | 410<br>390               | 380<br>360                | 350<br>330                | 320<br>300                | 300<br>280                 | PTO<br>MAG |
| Jet needle                      |     | 7EGO6            | ←                        | ←                         | ←                         | ←                         | ←                          | 2          |
| Needle position                 |     | 3                | ←                        | 2                         | ←                         | ←                         | ←                          | —          |
| Slide cutaway                   |     | 2.5              | ←                        | ←                         | ←                         | ←                         | ←                          | 2          |
| Pilot jet                       |     | 35               | ←                        | ←                         | 45                        | ←                         | ←                          | 2          |
| Air screw                       |     | 1.5              | ←                        | ←                         | ←                         | ←                         | ←                          | —          |
| Valve seat                      |     | 2.0              | ←                        | ←                         | ←                         | ←                         | ←                          | 2          |
| Needle jet                      |     | AA-7<br>(224)    | ←                        | ←                         | AA-3<br>(224)             | ←                         | AA-1<br>(224)              | 2          |
| Float level                     | mm  | 18.1             | ←                        | ←                         | ←                         | ←                         | ←                          | —          |
| Idle                            | RPM | 1800-<br>2000    | ←                        | ←                         | ←                         | ←                         | ←                          | —          |
| Idle throttle<br>valve position | mm  | 2.25             | 2.3                      | 2.4                       | 2.45                      | 2.5                       | 2.6                        | —          |

**MAIN JET CHART**

| <b>Altitude</b>    | <b>Sea Level</b> | <b>600 m<br/>2000 ft</b> | <b>1200 m<br/>4000 ft</b> | <b>1800 m<br/>6000 ft</b> | <b>2400 m<br/>8000 ft</b> | <b>3000 m<br/>10000 ft</b> | <b>Qty</b> |
|--------------------|------------------|--------------------------|---------------------------|---------------------------|---------------------------|----------------------------|------------|
| <b>Temperature</b> |                  |                          |                           |                           |                           |                            |            |
| – 40°C<br>– 40°F   | 440              | 430                      | 400                       | 370                       | 340                       | 320                        | PTO        |
|                    | 420              | 410                      | 380                       | 350                       | 320                       | 300                        | MAG        |
| – 30°C<br>– 20°F   | 430              | 420                      | 390                       | 360                       | 330                       | 310                        | PTO        |
|                    | 410              | 400                      | 370                       | 340                       | 310                       | 290                        | MAG        |
| – 20°C<br>– 4°F    | <b>420</b>       | <b>410</b>               | <b>380</b>                | <b>350</b>                | <b>320</b>                | <b>300</b>                 | <b>PTO</b> |
|                    | <b>400</b>       | <b>390</b>               | <b>360</b>                | <b>330</b>                | <b>300</b>                | <b>280</b>                 | <b>MAG</b> |
| – 10°C<br>14°F     | 410              | 400                      | 370                       | 340                       | 310                       | 290                        | PTO        |
|                    | 390              | 380                      | 350                       | 320                       | 290                       | 270                        | MAG        |
| 0°C<br>32°F        | 400              | 390                      | 360                       | 330                       | 300                       | 280                        | PTO        |
|                    | 380              | 370                      | 340                       | 310                       | 280                       | 260                        | MAG        |
| 10°C<br>50°F       | 390              | 380                      | 350                       | 320                       | 290                       | 270                        | PTO        |
|                    | 370              | 360                      | 330                       | 300                       | 270                       | 250                        | MAG        |
| 20°C<br>70°F       | 380              | 370                      | 340                       | 310                       | 280                       | 260                        | PTO        |
|                    | 360              | 350                      | 320                       | 290                       | 260                       | 240                        | MAG        |

NOTE: Arrows in the charts indicate that the preceding information is repeated.

# 1996-MACH Z LT

## HIGH ALTITUDE KIT (P/N 861 7500 00)

### DRIVE PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>            | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> | <b>Qty</b> |
|-------------------------------------|-----------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|------------|
| Spring                              | Green/Violet<br>414 7628 00 | ←                              | ←                               | ←                               | ←                               | ←                                | 1          |
| Ramp                                | 420 480 286                 | ←                              | ←                               | ←                               | ←                               | ←                                | 3          |
| Calibration<br>screw position       | 4                           | 5                              | 3                               | 4                               | 5                               | 6                                | —          |
| Pin                                 | 504 259 600                 | ←                              | 420 429 140                     | ←                               | ←                               | ←                                | 3          |
| Engagement<br>RPM ± 100             | 4100                        | ←                              | 4500                            | ←                               | ←                               | ←                                | —          |
| Maximum<br>RPM ± 100                | 8200                        | ←                              | ←                               | ←                               | ←                               | ←                                | —          |

### DRIVEN PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>     | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2000 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|----------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | Beige                | ←                              | ←                               | ←                               | ←                               | ←                                |
| Spring<br>tension                   | Kg ± 0.7<br>lb ± 1.5 | 6.1<br>13.4                    | ←                               | 6.8<br>15.0                     | ←                               | ←                                |
| Cam<br>angle                        | °<br>(degrees)       | 50                             | ←                               | ←                               | ←                               | ←                                |

### CHAINCASE and DRIVE AXLE

| <b>Altitude</b><br><b>Gearing</b>    | <b>Sea Level</b> | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|--------------------------------------|------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Top sprocket                         | 25               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Bottom sprocket                      | 44               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Chain,<br>quantity of links          | 74               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Drive sprocket,<br>quantity of teeth | 9                | —                              | —                               | —                               | —                               | —                                |

**NOTE:** Arrows in the charts indicate that the preceding information is repeated.



CAUTION

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

CARBURETION

| Altitude                        |     | Sea Level       | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft   | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty |
|---------------------------------|-----|-----------------|------------------|-------------------|---------------------|-------------------|--------------------|-----|
| Calibration                     |     |                 |                  |                   |                     |                   |                    |     |
| Main jet<br>PTO/Ctr/MAG         |     | 380/<br>370/380 | 350/<br>340/350  | 320/<br>310/320   | 290/<br>280/290     | 260/<br>250/260   | 230/<br>220/230    | —   |
| Jet needle                      |     | 8 AGY1-41       | ←                | ←                 | ←                   | ←                 | ←                  | 3   |
| Needle position                 |     | 3               | ←                | 2                 | ←                   | ←                 | 1                  | —   |
| Slide cutaway                   |     | 2.0             | ←                | ←                 | ←                   | ←                 | ←                  | 3   |
| Pilot jet<br>PTO/Ctr/MAG        |     | 40/45/45        | ←                | ←                 | ←                   | ←                 | ←                  | —   |
| Air screw<br>PTO/Ctr/MAG        |     | 4.5/<br>4.0/3.5 | ←                | ←                 | 3.375/<br>3.0/2.625 | 2.25/<br>2.0/1.75 | 2.0/<br>1.75/1.5   | —   |
| Valve seat                      |     | 1.5             | ←                | ←                 | ←                   | ←                 | ←                  | 3   |
| Needle jet                      |     | O-4 (372)       | ←                | ←                 | ←                   | ←                 | ←                  | 3   |
| Float level                     | mm  | 20              | ←                | ←                 | ←                   | ←                 | ←                  | —   |
| Idle                            | RPM | 1500-1800       | ←                | ←                 | ←                   | ←                 | ←                  | —   |
| Idle throttle<br>valve position | mm  | 1.2             | 1.4              | 1.6               | 1.8                 | 2.0               | 2.2                | —   |

MAIN JET CHART

| Altitude           | Sea Level                    | 600 m<br>2000 ft             | 1200 m<br>4000 ft            | 1800 m<br>6000 ft            | 2400 m<br>8000 ft            | 3000 m<br>10000 ft           | Qty                          |
|--------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| Temperature        |                              |                              |                              |                              |                              |                              |                              |
| – 40°C<br>(– 40°F) | 400<br>390/400               | 370<br>360/370               | 340<br>330/340               | 300<br>290/300               | 270<br>260/270               | 240<br>230/240               | PTO<br>Ctr/MAG               |
| – 30°C<br>(– 20°F) | 390<br>380/390               | 360<br>350/300               | 330<br>320/330               | 300<br>290/300               | 270<br>260/270               | 240<br>230/240               | PTO<br>Ctr/MAG               |
| – 20°C<br>(– 4°F)  | <b>380</b><br><b>370/380</b> | <b>350</b><br><b>340/350</b> | <b>320</b><br><b>310/320</b> | <b>290</b><br><b>280/290</b> | <b>260</b><br><b>250/260</b> | <b>230</b><br><b>220/230</b> | <b>PTO</b><br><b>Ctr/MAG</b> |
| – 10°C<br>(14°F)   | 370<br>360/370               | 340<br>330/340               | 310<br>300/310               | 280<br>270/280               | 250<br>240/250               | 220<br>210/220               | PTO<br>Ctr/MAG               |
| 0°C<br>(32°F)      | 360<br>350/360               | 330<br>320/330               | 300<br>290/300               | 270<br>260/270               | 250<br>240/250               | 220<br>210/220               | PTO<br>Ctr/MAG               |
| 10°C<br>(50°F)     | 350<br>340/350               | 320<br>310/320               | 290<br>280/290               | 260<br>250/260               | 240<br>230/240               | 210<br>200/200               | PTO<br>Ctr/MAG               |
| 20°C<br>(70°F)     | 340<br>330/340               | 310<br>300/310               | 290<br>280/290               | 260<br>250/260               | 230<br>220/230               | 200<br>190/200               | PTO<br>Ctr/MAG               |

NOTE: Arrows in the charts indicate that the preceding information is repeated.

# 1996-MACH Z

## HIGH ALTITUDE KIT (P/N 861 7499 00)

### DRIVE PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>            | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> | <b>Qty</b> |
|-------------------------------------|-----------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|------------|
| Spring                              | Green/Violet<br>414 7628 00 | ←                              | ←                               | ←                               | ←                               | ←                                | 1          |
| Ramp                                | 420 480 286                 | ←                              | ←                               | ←                               | ←                               | ←                                | 3          |
| Calibration<br>screw position       | 3                           | 4                              | 3                               | 4                               | 5                               | 6                                | —          |
| Pin                                 | 504 259 600                 | ←                              | 420 429 140                     | ←                               | ←                               | ←                                | 3          |
| Engagement<br>RPM ± 100             | 4100                        | ←                              | 4500                            | ←                               | ←                               | ←                                | —          |
| Maximum<br>RPM ± 100                | 8200                        | ←                              | ←                               | ←                               | ←                               | ←                                | —          |

### DRIVEN PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>     | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2000 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|----------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | Beige                | ←                              | ←                               | ←                               | ←                               | ←                                |
| Spring<br>tension                   | Kg ± 0.7<br>lb ± 1.5 | 6.1<br>13.4                    | ←                               | 6.8<br>15.0                     | ←                               | ←                                |
| Cam<br>angle                        | °<br>(degrees)       | 50                             | ←                               | ←                               | ←                               | ←                                |

### CHAINCASE and DRIVE AXLE

| <b>Altitude</b><br><b>Gearing</b>    | <b>Sea Level</b> | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|--------------------------------------|------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Top sprocket                         | 26               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Bottom sprocket                      | 44               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Chain,<br>quantity of links          | 74               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Drive sprocket,<br>quantity of teeth | 9                | —                              | —                               | —                               | —                               | —                                |

**NOTE:** Arrows in the charts indicate that the preceding information is repeated.



CAUTION

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

CARBURETION

| Altitude                        |     | Sea Level       | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft   | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty |
|---------------------------------|-----|-----------------|------------------|-------------------|---------------------|-------------------|--------------------|-----|
| Calibration                     |     |                 |                  |                   |                     |                   |                    |     |
| Main jet<br>PTO/Ctr/MAG         |     | 380/<br>370/380 | 350/<br>340/350  | 320/<br>310/320   | 290/<br>280/290     | 260/<br>250/260   | 230/<br>220/230    | —   |
| Jet needle                      |     | 8 AGY1-41       | ←                | ←                 | ←                   | ←                 | ←                  | 3   |
| Needle position                 |     | 3               | ←                | 2                 | ←                   | ←                 | 1                  | —   |
| Slide cutaway                   |     | 2.0             | ←                | ←                 | ←                   | ←                 | ←                  | 3   |
| Pilot jet<br>PTO/Ctr/MAG        |     | 40/45/45        | ←                | ←                 | ←                   | ←                 | ←                  | —   |
| Air screw<br>PTO/Ctr/MAG        |     | 4.5/<br>4.0/3.5 | ←                | ←                 | 3.375/<br>3.0/2.625 | 2.25/<br>2.0/1.75 | 2.0/<br>1.75/1.5   | —   |
| Valve seat                      |     | 1.5             | ←                | ←                 | ←                   | ←                 | ←                  | 3   |
| Needle jet                      |     | O-4 (372)       | ←                | ←                 | ←                   | ←                 | ←                  | 3   |
| Float level                     | mm  | 20              | ←                | ←                 | ←                   | ←                 | ←                  | —   |
| Idle                            | RPM | 1500-1800       | ←                | ←                 | ←                   | ←                 | ←                  | —   |
| Idle throttle<br>valve position | mm  | 1.2             | 1.4              | 1.6               | 1.8                 | 2.0               | 2.2                | —   |

MAIN JET CHART

| Altitude           | Sea Level                    | 600 m<br>2000 ft             | 1200 m<br>4000 ft            | 1800 m<br>6000 ft            | 2400 m<br>8000 ft            | 3000 m<br>10000 ft           | Qty                          |
|--------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| Temperature        |                              |                              |                              |                              |                              |                              |                              |
| – 40°C<br>(– 40°F) | 400<br>390/400               | 370<br>360/370               | 340<br>330/340               | 300<br>290/300               | 270<br>260/270               | 240<br>230/240               | PTO<br>Ctr/MAG               |
| – 30°C<br>(– 20°F) | 390<br>380/390               | 360<br>350/300               | 330<br>320/330               | 300<br>290/300               | 270<br>260/270               | 240<br>230/240               | PTO<br>Ctr/MAG               |
| – 20°C<br>(– 4°F)  | <b>380</b><br><b>370/380</b> | <b>350</b><br><b>340/350</b> | <b>320</b><br><b>310/320</b> | <b>290</b><br><b>280/290</b> | <b>260</b><br><b>250/260</b> | <b>230</b><br><b>220/230</b> | <b>PTO</b><br><b>Ctr/MAG</b> |
| – 10°C<br>(14°F)   | 370<br>360/370               | 340<br>330/340               | 310<br>300/310               | 280<br>270/280               | 250<br>240/250               | 220<br>210/220               | PTO<br>Ctr/MAG               |
| 0°C<br>(32°F)      | 360<br>350/360               | 330<br>320/330               | 300<br>290/300               | 270<br>260/270               | 250<br>240/250               | 220<br>210/220               | PTO<br>Ctr/MAG               |
| 10°C<br>(50°F)     | 350<br>340/350               | 320<br>310/320               | 290<br>280/290               | 260<br>250/260               | 240<br>230/240               | 210<br>200/200               | PTO<br>Ctr/MAG               |
| 20°C<br>(70°F)     | 340<br>330/340               | 310<br>300/310               | 290<br>280/290               | 260<br>250/260               | 230<br>220/230               | 200<br>190/200               | PTO<br>Ctr/MAG               |

NOTE: Arrows in the charts indicate that the preceding information is repeated.

# HIGH ALTITUDE TECHNICAL DATA - 1997 MODELS

## 1997-TUNDRA II LT

### HIGH ALTITUDE KIT (P/N 861 7538 00)

#### DRIVE PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>         | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> | <b>Qty</b> |
|-------------------------------------|--------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|------------|
| Spring                              | Turquoise<br>417 1159 00 | ←                              | Blue<br>417 1156 00             | ←                               | ←                               | ←                                | 1          |
| Block                               | 417 1143 00              | ←                              | 417 1157 00                     | ←                               | ←                               | ←                                | 3          |
| Weight                              | 0                        | ←                              | 3 of<br>417 1158 00             | 2 of<br>←                       | 2 of<br>←                       | 1 of<br>←                        | x 3        |
| Capsule                             | 417 1145 00              | ←                              | 0                               | ←                               | ←                               | ←                                | x 2        |
| Engagement<br>RPM ± 100             | 3100                     | ←                              | ←                               | ←                               | ←                               | ←                                | —          |
| Maximum<br>RPM ± 100                | 6900                     | ←                              | ←                               | ←                               | ←                               | ←                                | —          |

#### DRIVEN PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>     | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2000 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|----------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | White<br>414 5099 00 | ←                              | ←                               | ←                               | ←                               | ←                                |
| Spring<br>tension                   | Kg ± 0.7<br>lb ± 1.5 | 3.6<br>7.9                     | ←                               | 5.9<br>13                       | ←                               | ←                                |
| Cam<br>angle                        | °<br>(degrees)       | 37.8                           | ←                               | ←                               | ←                               | ←                                |

#### CHAINCASE and DRIVE AXLE

| <b>Altitude</b><br><b>Gearing</b>    | <b>Sea Level</b> | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|--------------------------------------|------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Top sprocket                         | 14               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Bottom sprocket                      | 25               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Chain,<br>quantity of links          | 62               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Drive sprocket,<br>quantity of teeth | 8                | —                              | —                               | —                               | —                               | —                                |

**NOTE:** Arrows in the charts indicate that the preceding information is repeated.

# 1997-TUNDRA II LT



## CAUTION

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

### CARBURETION

| Altitude<br>Calibration         |              | Sea Level | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty |
|---------------------------------|--------------|-----------|------------------|-------------------|-------------------|-------------------|--------------------|-----|
| Main jet                        |              | 190       | 185              | 175               | 140               | 130               | 125                | 1   |
| Jet needle                      |              | 6DH4      | ←                | ←                 | ←                 | ←                 | ←                  | 1   |
| Needle position                 |              | 2         | ←                | ←                 | ←                 | ←                 | ←                  | —   |
| Slide cutaway                   |              | 2.5       | ←                | ←                 | ←                 | ←                 | ←                  | 1   |
| Pilot jet                       |              | 40        | ←                | ←                 | 35                | ←                 | ←                  | 1   |
| Air screw                       |              | 1.0       | ←                | ←                 | ←                 | ←                 | ←                  | —   |
| Valve seat                      |              | 1.5       | ←                | ←                 | ←                 | ←                 | ←                  | 1   |
| Needle jet                      |              | 0-8 (159) | ←                | ←                 | ←                 | ←                 | ←                  | 1   |
| Float level                     | mm           | 23.9      | ←                | ←                 | ←                 | ←                 | ←                  | —   |
| Idle                            | RPM<br>± 200 | 1200      | ←                | ←                 | ←                 | ←                 | ←                  | —   |
| Idle throttle<br>valve position | mm           | 1.3       | ←                | ←                 | ←                 | ←                 | ←                  | —   |

### MAIN JET CHART

| Altitude<br>Temperature |  | Sea Level  | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty      |
|-------------------------|--|------------|------------------|-------------------|-------------------|-------------------|--------------------|----------|
| - 40°C<br>- 40°F        |  | 210        | 200              | 190               | 150               | 145               | 135                | 1        |
| - 30°C<br>- 20°F        |  | 200        | 190              | 180               | 145               | 135               | 130                | 1        |
| <b>- 20°C<br/>- 4°F</b> |  | <b>190</b> | <b>185</b>       | <b>175</b>        | <b>140</b>        | <b>130</b>        | <b>125</b>         | <b>1</b> |
| - 10°C<br>14°F          |  | 185        | 180              | 170               | 135               | 125               | 120                | 1        |
| 0°C<br>32°F             |  | 180        | 175              | 165               | 130               | 120               | 115                | 1        |
| 10°C<br>50°F            |  | 170        | 165              | 155               | 125               | 115               | 110                | 1        |
| 20°C<br>70°F            |  | 165        | 160              | 150               | 120               | 110               | 105                | 1        |

NOTE: Arrows in the charts indicate that the preceding information is repeated.

# 1997-SKANDIC WT

## HIGH ALTITUDE KIT (P/N 861 7580 00)

### DRIVE PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>           | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> | <b>Qty</b> |
|-------------------------------------|----------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|------------|
| Spring                              | Blue/Violet<br>420 8178 00 | ←                              | Blue/Yellow<br>414 6895 00      | ←                               | ←                               | ←                                | 1          |
| Ramp                                | 417 0051 46                | ←                              | ←                               | ←                               | ←                               | ←                                | 3          |
| Calibration screw position          | 3                          | 4                              | 2                               | 3                               | 4                               | 5                                | —          |
| Pin                                 | 417 0043 03                | ←                              | ←                               | ←                               | ←                               | ←                                | 3          |
| Engagement RPM $\pm$ 100            | 3300                       | ←                              | ←                               | ←                               | ←                               | ←                                | —          |
| Maximum RPM $\pm$ 100               | 6500                       | ←                              | ←                               | ←                               | ←                               | ←                                | —          |

### DRIVEN PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>             | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2000 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|------------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | Blue                         | ←                              | ←                               | ←                               | ←                               | ←                                |
| Spring tension                      | Kg $\pm$ 0.7<br>lb $\pm$ 1.5 | ←                              | ←                               | ←                               | ←                               | ←                                |
| Cam angle                           | °<br>(degrees)               | ←                              | ←                               | ←                               | ←                               | ←                                |

### CHAINCASE and DRIVE AXLE

| <b>Altitude</b><br><b>Gearing</b> | <b>Sea Level</b> | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-----------------------------------|------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Top sprocket                      | N/A              | ←                              | ←                               | ←                               | ←                               | ←                                |
| Bottom sprocket                   | N/A              | ←                              | ←                               | ←                               | ←                               | ←                                |
| Chain, quantity of links          | N/A              | ←                              | ←                               | ←                               | ←                               | ←                                |
| Drive sprocket, quantity of teeth | 8                | —                              | —                               | —                               | —                               | —                                |

**NOTE:** Arrows in the charts indicate that the preceding information is repeated.



CAUTION

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

CARBURETION

| Altitude<br>Calibration         |              | Sea Level | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty |
|---------------------------------|--------------|-----------|------------------|-------------------|-------------------|-------------------|--------------------|-----|
| Main jet                        |              | 230       | 220              | 200               | 180               | 170               | 160                | 1   |
| Jet needle                      |              | 6DH8      | ←                | ←                 | ←                 | ←                 | ←                  | 1   |
| Needle position                 |              | 4         | ←                | ←                 | 3                 | ←                 | ←                  | —   |
| Slide cutaway                   |              | 3.0       | ←                | ←                 | ←                 | ←                 | ←                  | 1   |
| Pilot jet                       |              | 25        | ←                | ←                 | ←                 | ←                 | ←                  | 1   |
| Air screw                       |              | 1.5       | ←                | ←                 | .75               | ←                 | ←                  | —   |
| Valve seat                      |              | 1.5       | ←                | ←                 | ←                 | ←                 | ←                  | 2   |
| Needle jet                      |              | O-0 (159) | ←                | ←                 | ←                 | ←                 | ←                  | 1   |
| Float level                     | mm           | 23.9      | ←                | ←                 | ←                 | ←                 | ←                  | —   |
| Idle                            | RPM<br>± 200 | 1650      | ←                | ←                 | ←                 | ←                 | ←                  | —   |
| Idle throttle<br>valve position | mm           | 1.5       | ←                | 1.6               | 1.7               | 18                | 1.9                | —   |

MAIN JET CHART

| Altitude<br>Temperature |  | Sea Level  | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty      |
|-------------------------|--|------------|------------------|-------------------|-------------------|-------------------|--------------------|----------|
| - 40°C<br>- 40°F        |  | 250        | 240              | 220               | 195               | 190               | 180                | 1        |
| - 30°C<br>- 20°F        |  | 240        | 230              | 210               | 190               | 180               | 170                | 1        |
| <b>- 20°C<br/>- 4°F</b> |  | <b>230</b> | <b>220</b>       | <b>200</b>        | <b>180</b>        | <b>170</b>        | <b>160</b>         | <b>1</b> |
| - 10°C<br>14°F          |  | 220        | 210              | 190               | 175               | 165               | 155                | 1        |
| 0°C<br>32°F             |  | 210        | 200              | 180               | 170               | 160               | 150                | 1        |
| 10°C<br>50°F            |  | 200        | 190              | 170               | 160               | 155               | 145                | 1        |
| 20°C<br>70°F            |  | 190        | 180              | 160               | 150               | 150               | 140                | 1        |

NOTE: Arrows in the charts indicate that the preceding information is repeated.

# 1997-SKANDIC SWT

## HIGH ALTITUDE KIT (P/N 861 7581 00)

### DRIVE PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>          | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> | <b>Qty</b> |
|-------------------------------------|---------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|------------|
| Spring                              | Red/Yellow<br>414 8175 00 | ←                              | Red/Blue<br>414 6915 00         | ←                               | ←                               | ←                                | 1          |
| Ramp                                | 417 0051 46               | ←                              | ←                               | ←                               | ←                               | ←                                | 3          |
| Calibration screw position          | 4                         | 5                              | 2                               | 3                               | 4                               | 5                                | —          |
| Pin                                 | 417 0043 03               | ←                              | ←                               | ←                               | ←                               | ←                                | 3          |
| Engagement RPM $\pm$ 100            | 2900                      | ←                              | ←                               | 2800                            | ←                               | ←                                | —          |
| Maximum RPM $\pm$ 100               | 6500                      | ←                              | ←                               | ←                               | ←                               | ←                                | —          |

### DRIVEN PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>             | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2000 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|------------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | Blue                         | ←                              | ←                               | ←                               | ←                               | ←                                |
| Spring tension                      | Kg $\pm$ 0.7<br>lb $\pm$ 1.5 | 6.0<br>13.2                    | ←                               | ←                               | ←                               | ←                                |
| Cam angle                           | °<br>(degrees)               | 40                             | ←                               | ←                               | ←                               | ←                                |

### CHAINCASE and DRIVE AXLE

| <b>Altitude</b><br><b>Gearing</b> | <b>Sea Level</b> | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-----------------------------------|------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Top sprocket                      | N/A              | ←                              | ←                               | ←                               | ←                               | ←                                |
| Bottom sprocket                   | N/A              | ←                              | ←                               | ←                               | ←                               | ←                                |
| Chain, quantity of links          | N/A              | ←                              | ←                               | ←                               | ←                               | ←                                |
| Drive sprocket, quantity of teeth | 8                | —                              | —                               | —                               | —                               | —                                |

**NOTE:** Arrows in the charts indicate that the preceding information is repeated.

# 1997-SKANDIC SWT



## CAUTION

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

### CARBURETION

| Altitude<br>Calibration         |              | Sea Level | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty |
|---------------------------------|--------------|-----------|------------------|-------------------|-------------------|-------------------|--------------------|-----|
| Main jet                        |              | 230       | 220              | 200               | 180               | 170               | 160                | 1   |
| Jet needle                      |              | 6DH8      | ←                | ←                 | ←                 | ←                 | ←                  | 1   |
| Needle position                 |              | 4         | ←                | ←                 | 3                 | ←                 | ←                  | —   |
| Slide cutaway                   |              | 3.0       | ←                | ←                 | ←                 | ←                 | ←                  | 1   |
| Pilot jet                       |              | 25        | ←                | ←                 | ←                 | ←                 | ←                  | 1   |
| Air screw                       |              | 1.5       | ←                | ←                 | .75               | ←                 | ←                  | —   |
| Valve seat                      |              | 1.5       | ←                | ←                 | ←                 | ←                 | ←                  | 2   |
| Needle jet                      |              | O-0 (159) | ←                | ←                 | ←                 | ←                 | ←                  | 1   |
| Float level                     | mm           | 23.9      | ←                | ←                 | ←                 | ←                 | ←                  | —   |
| Idle                            | RPM<br>± 200 | 1650      | ←                | ←                 | ←                 | ←                 | ←                  | —   |
| Idle throttle<br>valve position | mm           | 1.5       | ←                | 1.6               | 1.7               | 1.8               | 1.9                | —   |

### MAIN JET CHART

| Altitude<br>Temperature |  | Sea Level  | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty      |
|-------------------------|--|------------|------------------|-------------------|-------------------|-------------------|--------------------|----------|
| - 40°C<br>- 40°F        |  | 250        | 240              | 220               | 195               | 190               | 180                | 1        |
| - 30°C<br>- 20°F        |  | 240        | 230              | 210               | 190               | 180               | 170                | 1        |
| <b>- 20°C<br/>- 4°F</b> |  | <b>230</b> | <b>220</b>       | <b>200</b>        | <b>180</b>        | <b>170</b>        | <b>160</b>         | <b>1</b> |
| - 10°C<br>14°F          |  | 220        | 210              | 190               | 175               | 165               | 155                | 1        |
| 0°C<br>32°F             |  | 210        | 200              | 180               | 170               | 160               | 150                | 1        |
| 10°C<br>50°F            |  | 200        | 190              | 170               | 160               | 155               | 145                | 1        |
| 20°C<br>70°F            |  | 190        | 180              | 160               | 150               | 150               | 140                | 1        |

NOTE: Arrows in the charts indicate that the preceding information is repeated.

# 1997-SKANDIC WT LC

## HIGH ALTITUDE KIT (P/N 861 7600 00)

### DRIVE PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>           | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> | <b>Qty</b> |
|-------------------------------------|----------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|------------|
| Spring                              | Blue/Orange<br>420 6390 00 | ←                              | Blue/Pink<br>414 9163 00        | ←                               | ←                               | ←                                | 1          |
| Ramp                                | 417 0052 90                | ←                              | ←                               | ←                               | ←                               | ←                                | 3          |
| Calibration screw position          | 2                          | 3                              | 2                               | 3                               | 4                               | 5                                | —          |
| Pin                                 | 417 0043 03                | ←                              | ←                               | ←                               | ←                               | ←                                | 3          |
| Engagement RPM $\pm$ 100            | 3400                       | ←                              | ←                               | 2800                            | ←                               | ←                                | —          |
| Maximum RPM $\pm$ 100               | 6800                       | ←                              | ←                               | ←                               | ←                               | ←                                | —          |

### DRIVEN PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>             | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2000 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|------------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | Blue                         | ←                              | ←                               | ←                               | ←                               | ←                                |
| Spring tension                      | Kg $\pm$ 0.7<br>lb $\pm$ 1.5 | ←                              | ←                               | ←                               | ←                               | ←                                |
| Cam angle                           | °<br>(degrees)               | ←                              | ←                               | ←                               | ←                               | ←                                |

### CHAINCASE and DRIVE AXLE

| <b>Altitude</b><br><b>Gearing</b> | <b>Sea Level</b> | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-----------------------------------|------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Top sprocket                      | 25               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Bottom sprocket                   | 44               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Chain, quantity of links          | 74               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Drive sprocket, quantity of teeth | 9                | —                              | —                               | —                               | —                               | —                                |

**NOTE:** Arrows in the charts indicate that the preceding information is repeated.

# 1997-SKANDIC WT LC



## CAUTION

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

### CARBURETION

| Altitude                     |              | Sea Level  | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty        |
|------------------------------|--------------|------------|------------------|-------------------|-------------------|-------------------|--------------------|------------|
| Calibration                  |              |            |                  |                   |                   |                   |                    |            |
| Main jet                     |              | 260<br>280 | 250<br>270       | 240<br>260        | 190<br>210        | 180<br>200        | 170<br>190         | PTO<br>MAG |
| Jet needle                   |              | 6DH4       | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Needle position              |              | 3          | ←                | ←                 | 2                 | ←                 | ←                  | —          |
| Slide cutaway                |              | 2.0        | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Pilot jet                    |              | 30         | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Air screw                    |              | 1.0<br>.75 | ←                | ←                 | .5<br>.5          | ←                 | ←                  | PTO<br>MAG |
| Valve seat                   |              | 1.5        | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Needle jet                   |              | P-0 (159)  | ←                | ←                 | ←                 | ←                 | ←                  | 1          |
| Float level                  | mm           | 23.9       | ←                | ←                 | ←                 | ←                 | ←                  | —          |
| Idle                         | RPM<br>± 200 | 1900       | ←                | ←                 | ←                 | ←                 | ←                  | —          |
| Idle throttle valve position | mm           | 1.5        | 1.6              | 1.7               | 1.8               | 1.9               | 2.0                | —          |

### MAIN JET CHART

| Altitude         |  | Sea Level                | 600 m<br>2000 ft         | 1200 m<br>4000 ft        | 1800 m<br>6000 ft        | 2400 m<br>8000 ft        | 3000 m<br>10000 ft       | Qty                      |
|------------------|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Temperature      |  |                          |                          |                          |                          |                          |                          |                          |
| – 40°C<br>– 40°F |  | 280<br>300               | 270<br>290               | 260<br>280               | 210<br>230               | 200<br>220               | 190<br>210               | PTO<br>MAG               |
| – 30°C<br>– 20°F |  | 270<br>290               | 260<br>280               | 250<br>270               | 200<br>220               | 190<br>210               | 180<br>200               | PTO<br>MAG               |
| – 20°C<br>– 4°F  |  | <b>260</b><br><b>280</b> | <b>250</b><br><b>270</b> | <b>240</b><br><b>260</b> | <b>190</b><br><b>210</b> | <b>180</b><br><b>200</b> | <b>170</b><br><b>190</b> | <b>PTO</b><br><b>MAG</b> |
| – 10°C<br>14°F   |  | 250<br>270               | 240<br>260               | 230<br>250               | 180<br>200               | 170<br>190               | 160<br>180               | PTO<br>MAG               |
| 0°C<br>32°F      |  | 240<br>260               | 230<br>250               | 220<br>240               | 170<br>190               | 160<br>180               | 150<br>170               | PTO<br>MAG               |
| 10°C<br>50°F     |  | 230<br>250               | 220<br>240               | 210<br>230               | 160<br>180               | 150<br>170               | 140<br>160               | PTO<br>MAG               |
| 20°C<br>70°F     |  | 220<br>240               | 210<br>230               | 200<br>220               | 150<br>170               | 140<br>160               | 130<br>150               | PTO<br>MAG               |

NOTE: Arrows in the charts indicate that the preceding information is repeated.

# 1997-SKANDIC 380

## HIGH ALTITUDE KIT (P/N 861 7579 00)

### DRIVE PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>                         | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b>      | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> | <b>Qty</b> |
|-------------------------------------|------------------------------------------|--------------------------------|--------------------------------------|---------------------------------|---------------------------------|----------------------------------|------------|
| Spring                              | Yellow/green<br>on Violet<br>417 1185 00 | ←                              | Red/Blue<br>on Violet<br>417 1184 00 | ←                               | ←                               | ←                                | 1          |
| Block                               | 417 1181 00                              | ←                              | ←                                    | ←                               | ←                               | ←                                | 1          |
| Weight                              | 1 of<br>417 1204 00                      | ←                              | 5 of<br>417 1144 00                  | 4 of<br>←                       | 3 of<br>←                       | 2 of<br>←                        | x 3        |
| Capsule                             | 417 1145 00                              | ←                              | ←                                    | ←                               | ←                               | ←                                | x 3        |
| Engagement<br>RPM ± 100             | 2900                                     | ←                              | 3100                                 | ←                               | ←                               | ←                                | —          |
| Maximum<br>RPM ± 100                | 6900                                     | ←                              | ←                                    | ←                               | ←                               | ←                                | —          |

### DRIVEN PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>      | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2000 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|-----------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | Orange<br>414 5058 00 | ←                              | ←                               | ←                               | ←                               | ←                                |
| Spring<br>tension                   | Kg ± 0.7<br>lb ± 1.5  | 4.8<br>10.6                    | 5.5<br>12.1                     | ←                               | ←                               | ←                                |
| Cam<br>angle                        | °<br>(degrees)        | 44                             | ←                               | ←                               | ←                               | ←                                |

### CHAINCASE and DRIVE AXLE

| <b>Altitude</b><br><b>Gearing</b>    | <b>Sea Level</b> | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|--------------------------------------|------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Top sprocket                         | 21               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Bottom sprocket                      | 44               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Chain,<br>quantity of links          | 72               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Drive sprocket,<br>quantity of teeth | 9                | —                              | —                               | —                               | —                               | —                                |

**NOTE:** Arrows in the charts indicate that the preceding information is repeated.

# 1997-SKANDIC 380



## CAUTION

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

### CARBURETION

| Altitude                     |              | Sea Level | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty        |
|------------------------------|--------------|-----------|------------------|-------------------|-------------------|-------------------|--------------------|------------|
| Calibration                  |              |           |                  |                   |                   |                   |                    |            |
| Main jet                     |              | 140       | 135              | 130               | 125               | 115               | 110                | 2          |
| Jet needle                   |              | 6DP9      | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Needle position              |              | 3         | ←                | ←                 | 2                 | ←                 | ←                  | —          |
| Slide cutaway                |              | 2.5       | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Pilot jet                    |              | 40        | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Air screw                    |              | 1.25      | ←                | ←                 | 1.0               | ←                 | ←                  | PTO<br>MAG |
| Valve seat                   |              | 1.5       | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Needle jet                   |              | P-0 (159) | ←                | ←                 | O-8 (159)         | ←                 | ←                  | 2          |
| Float level                  | mm           | 23.9      | ←                | ←                 | ←                 | ←                 | ←                  | —          |
| Idle                         | RPM<br>± 200 | 1650      | ←                | ←                 | ←                 | ←                 | ←                  | —          |
| Idle throttle valve position | mm           | 1.3       | ←                | ←                 | 1.6               | ←                 | ←                  | —          |

### MAIN JET CHART

| Altitude                |  | Sea Level  | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty      |
|-------------------------|--|------------|------------------|-------------------|-------------------|-------------------|--------------------|----------|
| Temperature             |  |            |                  |                   |                   |                   |                    |          |
| - 40°C<br>- 40°F        |  | 150        | 145              | 140               | 135               | 125               | 120                | 2        |
| - 30°C<br>- 20°F        |  | 145        | 140              | 135               | 130               | 120               | 115                | 2        |
| <b>- 20°C<br/>- 4°F</b> |  | <b>140</b> | <b>135</b>       | <b>130</b>        | <b>125</b>        | <b>115</b>        | <b>110</b>         | <b>2</b> |
| - 10°C<br>14°F          |  | 135        | 130              | 125               | 120               | 110               | 105                | 2        |
| 0°C<br>32°F             |  | 130        | 125              | 120               | 115               | 105               | 100                | 2        |
| 10°C<br>50°F            |  | 125        | 120              | 115               | 110               | 100               | 95                 | 2        |
| 20°C<br>70°F            |  | 120        | 115              | 110               | 105               | 95                | 90                 | 2        |

NOTE: Arrows in the charts indicate that the preceding information is repeated.

# 1997-SKANDIC 500

## HIGH ALTITUDE KIT (P/N 861 7578 00)

### DRIVE PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>          | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> | <b>Qty</b> |
|-------------------------------------|---------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|------------|
| Spring                              | Red/Yellow<br>414 8175 00 | ←                              | Red/Blue<br>414 6915 00         | ←                               | ←                               | ←                                | 1          |
| Ramp                                | 417 0052 84               | ←                              | ←                               | ←                               | ←                               | ←                                | 3          |
| Calibration screw position          | 4                         | 5                              | 2                               | 3                               | 4                               | 5                                | —          |
| Pin                                 | 417 0043 03               | ←                              | ←                               | ←                               | ←                               | ←                                | 3          |
| Engagement RPM ± 100                | 3000                      | ←                              | ←                               | ←                               | ←                               | ←                                | —          |
| Maximum RPM ± 100                   | 7100                      | ←                              | ←                               | ←                               | ←                               | ←                                | —          |

### DRIVEN PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>      | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2000 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|-----------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | Orange<br>414 5058 00 | ←                              | ←                               | ←                               | ←                               | ←                                |
| Spring tension                      | Kg ± 0.7<br>lb ± 1.5  | 4.8<br>10.6                    | 5.5<br>12.1                     | ←                               | ←                               | ←                                |
| Cam angle                           | °<br>(degrees)        | 44                             | ←                               | ←                               | ←                               | ←                                |

### CHAINCASE and DRIVE AXLE

| <b>Altitude</b><br><b>Gearing</b> | <b>Sea Level</b> | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-----------------------------------|------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Top sprocket                      | 21               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Bottom sprocket                   | 44               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Chain, quantity of links          | 72               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Drive sprocket, quantity of teeth | 9                | —                              | —                               | —                               | —                               | —                                |

**NOTE:** Arrows in the charts indicate that the preceding information is repeated.

# 1997-SKANDIC 500

## ▼ CAUTION

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

### CARBURETION

| Altitude<br>Calibration      |              | Sea Level  | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty        |
|------------------------------|--------------|------------|------------------|-------------------|-------------------|-------------------|--------------------|------------|
| Main jet                     |              | 180<br>170 | 170<br>160       | 160<br>150        | 150<br>140        | 140<br>130        | 130<br>120         | PTO<br>MAG |
| Jet needle                   |              | 6DH2       | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Needle position              |              | 3          | ←                | ←                 | 2                 | ←                 | ←                  | —          |
| Slide cutaway                |              | 2.5        | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Pilot jet                    |              | 40         | ←                | ←                 | 45                | ←                 | ←                  | 2          |
| Air screw                    |              | 1.875      | ←                | ←                 | 1.5               | ←                 | ←                  | —          |
| Valve seat                   |              | 1.5        | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Needle jet                   |              | P-0 (159)  | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Float level                  | mm           | 23.9       | ←                | ←                 | ←                 | ←                 | ←                  | —          |
| Idle                         | RPM<br>± 200 | 1650       | ←                | ←                 | ←                 | ←                 | ←                  | —          |
| Idle throttle valve position | mm           | 1.5        | ←                | 1.6               | 1.7               | 1.8               | 1.85               | —          |
| Exhaust restricting ring     |              | N/A        | ←                | ←                 | 514 0434 00       | ←                 | ←                  | 1          |

### MAIN JET CHART

| Altitude<br>Calibration |  | Sea Level                | 600 m<br>2000 ft         | 1200 m<br>4000 ft        | 1800 m<br>6000 ft        | 2400 m<br>8000 ft        | 3000 m<br>10000 ft       | Qty                      |
|-------------------------|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| – 40°C<br>– 40°F        |  | 200<br>190               | 190<br>180               | 175<br>165               | 165<br>155               | 155<br>145               | 140<br>130               | PTO<br>MAG               |
| – 30°C<br>– 20°F        |  | 190<br>180               | 180<br>170               | 165<br>155               | 155<br>145               | 145<br>135               | 135<br>125               | PTO<br>MAG               |
| – 20°C<br>– 4°F         |  | <b>180</b><br><b>170</b> | <b>170</b><br><b>160</b> | <b>160</b><br><b>150</b> | <b>150</b><br><b>140</b> | <b>140</b><br><b>130</b> | <b>130</b><br><b>120</b> | <b>PTO</b><br><b>MAG</b> |
| – 10°C<br>14°F          |  | 170<br>160               | 160<br>150               | 155<br>145               | 145<br>135               | 135<br>125               | 125<br>115               | PTO<br>MAG               |
| 0°C<br>32°F             |  | 165<br>155               | 155<br>145               | 150<br>140               | 140<br>130               | 130<br>120               | 120<br>110               | PTO<br>MAG               |
| 10°C<br>50°F            |  | 160<br>150               | 150<br>140               | 140<br>130               | 130<br>120               | 125<br>115               | 115<br>105               | PTO<br>MAG               |
| 20°C<br>70°F            |  | 155<br>145               | 145<br>135               | 135<br>125               | 125<br>115               | 120<br>110               | 110<br>100               | PTO<br>MAG               |

NOTE: Arrows in the charts indicate that the preceding information is repeated.

# 1997-TOURING E/E LT

## HIGH ALTITUDE KIT (P/N 861 7577 00)

### DRIVE PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>                         | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b>      | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> | <b>Qty</b> |
|-------------------------------------|------------------------------------------|--------------------------------|--------------------------------------|---------------------------------|---------------------------------|----------------------------------|------------|
| Spring<br>(Touring E LT)            | Yellow/Green<br>on Violet<br>417 1185 00 | ←                              | Red/Blue<br>on Violet<br>417 1184 00 | ←                               | ←                               | ←                                | 1          |
| Spring<br>(Touring E)               | Red/Blue<br>on Violet<br>417 1184 00     | ←                              | ←                                    | ←                               | ←                               | ←                                | 1          |
| Block                               | 417 1181 00                              | ←                              | ←                                    | ←                               | ←                               | ←                                | 1          |
| Weight                              | 1 of<br>417 1204 00                      | ←                              | 5 of<br>417 1144 00                  | 4 of<br>←                       | 3 of<br>←                       | 2 of<br>←                        | x 3        |
| Capsule                             | 417 1145 00                              | ←                              | ←                                    | ←                               | ←                               | ←                                | x 3        |
| Engagement<br>RPM ± 100             | (E LT) 2900<br>(E) 3100                  | ←                              | 3100                                 | ←                               | ←                               | ←                                | —          |
| Maximum<br>RPM ± 100                | 6900                                     | ←                              | ←                                    | ←                               | ←                               | ←                                | —          |

### DRIVEN PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>     | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2000 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|----------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | Orange               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Spring<br>tension                   | Kg ± 0.7<br>lb ± 1.5 | 4.8<br>10.6                    | 5.5<br>12.1                     | ←                               | ←                               | ←                                |
| Cam<br>angle                        | °<br>(degrees)       | 44                             | ←                               | ←                               | ←                               | ←                                |

### CHAINCASE and DRIVE AXLE

| <b>Altitude</b><br><b>Gearing</b>    | <b>Sea Level</b> | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|--------------------------------------|------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Top sprocket                         | 21               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Bottom sprocket                      | 44               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Chain,<br>quantity of links          | 72               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Drive sprocket,<br>quantity of teeth | 9                | —                              | —                               | —                               | —                               | —                                |

**NOTE:** Arrows in the charts indicate that the preceding information is repeated.

1997-TOURING E/E LT

 **CAUTION**

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

**CARBURETION**

| <b>Altitude</b>                 |              | <b>Sea Level</b> | <b>600 m<br/>2000 ft</b> | <b>1200 m<br/>4000 ft</b> | <b>1800 m<br/>6000 ft</b> | <b>2400 m<br/>8000 ft</b> | <b>3000 m<br/>10000 ft</b> | <b>Qty</b> |
|---------------------------------|--------------|------------------|--------------------------|---------------------------|---------------------------|---------------------------|----------------------------|------------|
| <b>Calibration</b>              |              |                  |                          |                           |                           |                           |                            |            |
| Main jet                        |              | 140              | 135                      | 130                       | 125                       | 115                       | 110                        | 2          |
| Jet needle                      |              | 6DP9             | ←                        | ←                         | ←                         | ←                         | ←                          | 2          |
| Needle position                 |              | 3                | ←                        | ←                         | 2                         | ←                         | ←                          | —          |
| Slide cutaway                   |              | 2.5              | ←                        | ←                         | ←                         | ←                         | ←                          | 2          |
| Pilot jet                       |              | 40               | ←                        | ←                         | ←                         | ←                         | ←                          | 2          |
| Air screw                       |              | 1.25             | ←                        | ←                         | 1.0                       | ←                         | ←                          | PTO<br>MAG |
| Valve seat                      |              | 1.5              | ←                        | ←                         | ←                         | ←                         | ←                          | 2          |
| Needle jet                      |              | P-0 (159)        | ←                        | ←                         | O-8 (159)                 | ←                         | ←                          | 2          |
| Float level                     | mm           | 23.9             | ←                        | ←                         | ←                         | ←                         | ←                          | —          |
| Idle                            | RPM<br>± 200 | 1650             | ←                        | ←                         | ←                         | ←                         | ←                          | —          |
| Idle throttle<br>valve position | mm           | 1.3              | ←                        | ←                         | 1.6                       | ←                         | ←                          | —          |

**MAIN JET CHART**

| <b>Altitude</b>         | <b>Sea Level</b> | <b>600 m<br/>2000 ft</b> | <b>1200 m<br/>4000 ft</b> | <b>1800 m<br/>6000 ft</b> | <b>2400 m<br/>8000 ft</b> | <b>3000 m<br/>10000 ft</b> | <b>Qty</b> |
|-------------------------|------------------|--------------------------|---------------------------|---------------------------|---------------------------|----------------------------|------------|
| <b>Temperature</b>      |                  |                          |                           |                           |                           |                            |            |
| – 40°C<br>– 40°F        | 150              | 145                      | 140                       | 135                       | 125                       | 120                        | 2          |
| – 30°C<br>– 20°F        | 145              | 140                      | 135                       | 130                       | 120                       | 115                        | 2          |
| <b>– 20°C<br/>– 4°F</b> | <b>140</b>       | <b>135</b>               | <b>130</b>                | <b>125</b>                | <b>115</b>                | <b>110</b>                 | <b>2</b>   |
| – 10°C<br>14°F          | 135              | 130                      | 125                       | 120                       | 110                       | 105                        | 2          |
| 0°C<br>32°F             | 130              | 125                      | 120                       | 115                       | 105                       | 100                        | 2          |
| 10°C<br>50°F            | 125              | 120                      | 115                       | 110                       | 100                       | 95                         | 2          |
| 20°C<br>70°F            | 120              | 115                      | 110                       | 105                       | 95                        | 90                         | 2          |

NOTE: Arrows in the charts indicate that the preceding information is repeated.

# 1997-TOURING LE

## HIGH ALTITUDE KIT (P/N 861 7576 00)

### DRIVE PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>             | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> | <b>Qty</b> |
|-------------------------------------|------------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|------------|
| Spring                              | Yellow/Violet<br>414 6784 00 | ←                              | Blue/Pink<br>415 9163 00        | ←                               | ←                               | ←                                | 1          |
| Ramp                                | 417 0052 27                  | ←                              | ←                               | ←                               | ←                               | ←                                | 3          |
| Calibration screw position          | 4                            | 5                              | 2                               | 3                               | 4                               | 5                                | —          |
| Pin                                 | 417 0043 03                  | ←                              | ←                               | ←                               | ←                               | ←                                | 3          |
| Engagement RPM $\pm$ 100            | 3500                         | ←                              | 3700                            | ←                               | ←                               | ←                                | —          |
| Maximum RPM $\pm$ 100               | 7000                         | ←                              | ←                               | ←                               | ←                               | ←                                | —          |

### DRIVEN PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>             | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2000 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|------------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | Orange                       | ←                              | ←                               | ←                               | ←                               | ←                                |
| Spring tension                      | Kg $\pm$ 0.7<br>lb $\pm$ 1.5 | 4.8<br>10.6                    | ←                               | ←                               | ←                               | ←                                |
| Cam angle                           | °<br>(degrees)               | 44                             | ←                               | ←                               | ←                               | ←                                |

### CHAINCASE and DRIVE AXLE

| <b>Altitude</b><br><b>Gearing</b> | <b>Sea Level</b> | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-----------------------------------|------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Top sprocket                      | 21               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Bottom sprocket                   | 44               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Chain, quantity of links          | 72               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Drive sprocket, quantity of teeth | 9                | —                              | —                               | —                               | —                               | —                                |

**NOTE:** Arrows in the charts indicate that the preceding information is repeated.

# 1997-TOURING LE



## CAUTION

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

### CARBURETION

| Altitude                        |              | Sea Level | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty |
|---------------------------------|--------------|-----------|------------------|-------------------|-------------------|-------------------|--------------------|-----|
| Calibration                     |              |           |                  |                   |                   |                   |                    |     |
| Main jet                        |              | 180       | 170              | 160               | 140               | 130               | 120                | 2   |
| Jet needle                      |              | 6DH2      | ←                | ←                 | ←                 | ←                 | ←                  | 2   |
| Needle position                 |              | 3         | ←                | ←                 | 2                 | ←                 | 1                  | —   |
| Slide cutaway                   |              | 2.5       | ←                | ←                 | ←                 | ←                 | ←                  | 2   |
| Pilot jet                       |              | 40        | ←                | ←                 | 45                | ←                 | ←                  | 2   |
| Air screw                       |              | 2.25      | ←                | ←                 | 1.25              | 1.0               | 0.75               | —   |
| Valve seat                      |              | 1.5       | ←                | ←                 | ←                 | ←                 | ←                  | 2   |
| Needle jet                      |              | P-1 (159) | ←                | ←                 | ←                 | ←                 | ←                  | 2   |
| Float level                     | mm           | 23.9      | ←                | ←                 | ←                 | ←                 | ←                  | —   |
| Idle                            | RPM<br>± 200 | 1650      | ←                | ←                 | ←                 | ←                 | ←                  | —   |
| Idle throttle<br>valve position | mm           | 1.6       | 1.9              | 2.0               | 2.2               | 2.3               | 2.4                | —   |

### MAIN JET CHART

| Altitude         |  | Sea Level | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty |
|------------------|--|-----------|------------------|-------------------|-------------------|-------------------|--------------------|-----|
| Temperature      |  |           |                  |                   |                   |                   |                    |     |
| – 40°C<br>– 40°F |  | 195       | 185              | 175               | 155               | 145               | 135                | 2   |
| – 30°C<br>– 20°F |  | 185       | 175              | 165               | 145               | 135               | 125                | 2   |
| – 20°C<br>– 4°F  |  | 180       | 170              | 160               | 140               | 130               | 120                | 2   |
| – 10°C<br>14°F   |  | 175       | 165              | 155               | 135               | 125               | 115                | 2   |
| 0°C<br>32°F      |  | 170       | 160              | 150               | 130               | 120               | 110                | 2   |
| 10°C<br>50°F     |  | 165       | 155              | 145               | 125               | 115               | 105                | 2   |
| 20°C<br>70°F     |  | 155       | 145              | 135               | 115               | 105               | 95                 | 2   |

NOTE: Arrows in the charts indicate that the preceding information is repeated.

# 1997-TOURING SLE

## HIGH ALTITUDE KIT (P/N 861 7575 00)

### DRIVE PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>          | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> | <b>Qty</b> |
|-------------------------------------|---------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|------------|
| Spring                              | Red/Yellow<br>414 8175 00 | ←                              | Red/Blue<br>414 6915 00         | ←                               | ←                               | ←                                | 1          |
| Ramp                                | 415 0052 84               | ←                              | ←                               | ←                               | ←                               | ←                                | 3          |
| Calibration screw position          | 4                         | 5                              | 2                               | 3                               | 4                               | 5                                | —          |
| Pin                                 | 417 0043 03               | ←                              | ←                               | ←                               | ←                               | ←                                | 3          |
| Engagement RPM $\pm$ 100            | 3000                      | ←                              | ←                               | ←                               | ←                               | ←                                | —          |
| Maximum RPM $\pm$ 100               | 7100                      | ←                              | ←                               | ←                               | ←                               | ←                                | —          |

### DRIVEN PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>             | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2000 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|------------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | Orange                       | ←                              | ←                               | ←                               | ←                               | ←                                |
| Spring tension                      | Kg $\pm$ 0.7<br>lb $\pm$ 1.5 | 4.8<br>10.6                    | ←                               | 5.5<br>12.1                     | ←                               | ←                                |
| Cam angle                           | °<br>(degrees)               | 44                             | ←                               | ←                               | ←                               | ←                                |

### CHAINCASE and DRIVE AXLE

| <b>Altitude</b><br><b>Gearing</b> | <b>Sea Level</b> | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-----------------------------------|------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Top sprocket                      | 21               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Bottom sprocket                   | 44               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Chain, quantity of links          | 72               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Drive sprocket, quantity of teeth | 9                | —                              | —                               | —                               | —                               | —                                |

**NOTE:** Arrows in the charts indicate that the preceding information is repeated.

# 1997-TOURING SLE



## CAUTION

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

### CARBURETION

| Altitude                        |              | Sea Level  | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty        |
|---------------------------------|--------------|------------|------------------|-------------------|-------------------|-------------------|--------------------|------------|
| Calibration                     |              |            |                  |                   |                   |                   |                    |            |
| Main jet                        |              | 180<br>170 | 170<br>160       | 160<br>150        | 150<br>140        | 140<br>130        | 130<br>120         | PTO<br>MAG |
| Jet needle                      |              | 6DH2       | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Needle position                 |              | 3          | ←                | ←                 | 2                 | ←                 | ←                  | —          |
| Slide cutaway                   |              | 2.5        | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Pilot jet                       |              | 40         | ←                | ←                 | 45                | ←                 | ←                  | 2          |
| Air screw                       |              | 1.875      | ←                | ←                 | 1.5               | ←                 | ←                  | —          |
| Valve seat                      |              | 1.5        | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Needle jet                      |              | P-0 (159)  | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Float level                     | mm           | 23.9       | ←                | ←                 | ←                 | ←                 | ←                  | —          |
| Idle                            | RPM<br>± 200 | 1650       | ←                | ←                 | ←                 | ←                 | ←                  | —          |
| Idle throttle<br>valve position | mm           | 1.5        | ←                | 1.6               | 1.7               | 1.8               | 1.85               | —          |
| Exhaust restricting ring        |              | N/A        | ←                | ←                 | 514 0434 00       | ←                 | ←                  | 1          |

### MAIN JET CHART

| Altitude         |  | Sea Level                | 600 m<br>2000 ft         | 1200 m<br>4000 ft        | 1800 m<br>6000 ft        | 2400 m<br>8000 ft        | 3000 m<br>10000 ft       | Qty                      |
|------------------|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Calibration      |  |                          |                          |                          |                          |                          |                          |                          |
| - 40°C<br>- 40°F |  | 200<br>190               | 190<br>180               | 175<br>165               | 165<br>155               | 155<br>145               | 140<br>130               | PTO<br>MAG               |
| - 30°C<br>- 20°F |  | 190<br>180               | 180<br>170               | 165<br>155               | 155<br>145               | 145<br>135               | 135<br>125               | PTO<br>MAG               |
| - 20°C<br>- 4°F  |  | <b>180</b><br><b>170</b> | <b>170</b><br><b>160</b> | <b>160</b><br><b>150</b> | <b>150</b><br><b>140</b> | <b>140</b><br><b>130</b> | <b>130</b><br><b>120</b> | <b>PTO</b><br><b>MAG</b> |
| - 10°C<br>14°F   |  | 170<br>160               | 160<br>150               | 155<br>145               | 145<br>135               | 135<br>125               | 125<br>115               | PTO<br>MAG               |
| 0°C<br>32°F      |  | 165<br>155               | 155<br>145               | 150<br>140               | 140<br>130               | 130<br>120               | 120<br>110               | PTO<br>MAG               |
| 10°C<br>50°F     |  | 160<br>150               | 150<br>140               | 140<br>130               | 130<br>120               | 125<br>115               | 115<br>105               | PTO<br>MAG               |
| 20°C<br>70°F     |  | 155<br>145               | 145<br>135               | 135<br>125               | 125<br>115               | 120<br>110               | 110<br>100               | PTO<br>MAG               |

NOTE: Arrows in the charts indicate that the preceding information is repeated.

# 1997-GRAND TOURING 500

## HIGH ALTITUDE KIT (P/N 861 7574 00)

### DRIVE PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>             | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> | <b>Qty</b> |
|-------------------------------------|------------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|------------|
| Spring                              | Violet/Violet<br>414 8179 00 | ←                              | Green/Blue<br>414 7682 00       | ←                               | ←                               | ←                                | 1          |
| Ramp                                | 414 0052 28                  | ←                              | ←                               | ←                               | ←                               | ←                                | 3          |
| Calibration screw position          | 3                            | 4                              | 2                               | 3                               | 4                               | 5                                | —          |
| Pin                                 | 417 0043 04                  | ←                              | 417 0043 03                     | ←                               | ←                               | ←                                | 3          |
| Engagement RPM ± 100                | 3500                         | ←                              | 4400                            | ←                               | ←                               | ←                                | —          |
| Maximum RPM ± 100                   | 7800                         | ←                              | ←                               | ←                               | ←                               | ←                                | —          |

### DRIVEN PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>     | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2000 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|----------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | Beige<br>414 5589 00 | ←                              | ←                               | ←                               | ←                               | ←                                |
| Spring tension                      | Kg ± 0.7<br>lb ± 1.5 | 7.0<br>15.4                    | ←                               | ←                               | ←                               | ←                                |
| Cam angle                           | °<br>(degrees)       | 44                             | ←                               | ←                               | ←                               | ←                                |

### CHAINCASE and DRIVE AXLE

| <b>Altitude</b><br><b>Gearing</b> | <b>Sea Level</b> | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-----------------------------------|------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Top sprocket                      | 23               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Bottom sprocket                   | 44               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Chain, quantity of links          | 72               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Drive sprocket, quantity of teeth | 9                | —                              | —                               | —                               | —                               | —                                |

**NOTE:** Arrows in the charts indicate that the preceding information is repeated.

# 1997-GRAND TOURING 500



## CAUTION

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

### CARBURETION

| Altitude                     |              | Sea Level  | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty        |
|------------------------------|--------------|------------|------------------|-------------------|-------------------|-------------------|--------------------|------------|
| Calibration                  |              |            |                  |                   |                   |                   |                    |            |
| Main jet                     |              | 330<br>310 | 310<br>290       | 290<br>270        | 260<br>250        | 240<br>230        | 220<br>210         | PTO<br>MAG |
| Jet needle                   |              | 6FEY1      | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Needle position              |              | 3          | ←                | ←                 | 2                 | ←                 | ←                  | —          |
| Slide cutaway                |              | 2.5        | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Pilot jet                    |              | 50         | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Air screw                    |              | 1.25       | ←                | ←                 | 1.00              | ←                 | ←                  | —          |
| Valve seat                   |              | 1.5        | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Needle jet                   |              | P-4 (480)  | ←                | ←                 | P-2 (480)         | ←                 | ←                  | 2          |
| Float level                  | mm           | 18.1       | ←                | ←                 | ←                 | ←                 | ←                  | —          |
| Idle                         | RPM<br>± 200 | 1800       | ←                | ←                 | ←                 | ←                 | ←                  | —          |
| Idle throttle valve position | mm           | 1.80       | 1.90             | 1.95              | 2.00              | 2.10              | 2.20               | —          |

### MAIN JET CHART

| Altitude         |  | Sea Level | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty |
|------------------|--|-----------|------------------|-------------------|-------------------|-------------------|--------------------|-----|
| Temperature      |  |           |                  |                   |                   |                   |                    |     |
| - 40°C<br>- 40°F |  | 350       | 330              | 310               | 280               | 260               | 240                | PTO |
|                  |  | 330       | 310              | 290               | 270               | 250               | 230                | MAG |
| - 30°C<br>- 20°F |  | 340       | 320              | 290               | 270               | 250               | 230                | PTO |
|                  |  | 320       | 300              | 280               | 260               | 240               | 220                | MAG |
| - 20°C<br>- 4°F  |  | 330       | 310              | 290               | 260               | 240               | 220                | PTO |
|                  |  | 310       | 290              | 270               | 250               | 230               | 210                | MAG |
| - 10°C<br>14°F   |  | 320       | 300              | 280               | 250               | 230               | 210                | PTO |
|                  |  | 300       | 280              | 260               | 240               | 220               | 200                | MAG |
| 0°C<br>32°F      |  | 310       | 290              | 270               | 240               | 220               | 200                | PTO |
|                  |  | 290       | 270              | 250               | 230               | 210               | 190                | MAG |
| 10°C<br>50°F     |  | 300       | 280              | 260               | 230               | 210               | 190                | PTO |
|                  |  | 280       | 260              | 240               | 220               | 200               | 180                | MAG |
| 20°C<br>70°F     |  | 290       | 270              | 250               | 220               | 200               | 180                | PTO |
|                  |  | 270       | 250              | 230               | 210               | 190               | 170                | MAG |

NOTE: Arrows in the charts indicate that the preceding information is repeated.

# 1997-GRAND TOURING 583

## HIGH ALTITUDE KIT (P/N 861 7573 00)

### DRIVE PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>         | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> | <b>Qty</b> |
|-------------------------------------|--------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|------------|
| Spring                              | Blue/Blue<br>414 6894 00 | ←                              | ←                               | Violet/Pink<br>414 9495 00      | ←                               | ←                                | 1          |
| Ramp                                | 417 0052 85              | ←                              | ←                               | 417 0052 89                     | ←                               | ←                                | 3          |
| Calibration screw position          | 3                        | 4                              | 5                               | 4                               | 5                               | 6                                | —          |
| Pin                                 | 417 0043 03              | ←                              | ←                               | ←                               | ←                               | ←                                | 3          |
| Engagement RPM ± 100                | 3800                     | ←                              | ←                               | 4200                            | ←                               | ←                                | —          |
| Maximum RPM ± 100                   | 7900                     | ←                              | ←                               | ←                               | ←                               | ←                                | —          |

### DRIVEN PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>     | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2000 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|----------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | Beige<br>414 5589 00 | ←                              | ←                               | ←                               | ←                               | ←                                |
| Spring tension                      | Kg ± 0.7<br>lb ± 1.5 | 6.1<br>13.4                    | ←                               | ←                               | ←                               | ←                                |
| Cam angle                           | °<br>(degrees)       | 47                             | ←                               | ←                               | 44                              | ←                                |

### CHAINCASE and DRIVE AXLE

| <b>Altitude</b><br><b>Gearing</b> | <b>Sea Level</b> | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-----------------------------------|------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Top sprocket                      | 25               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Bottom sprocket                   | 44               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Chain, quantity of links          | 74               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Drive sprocket, quantity of teeth | 9                | —                              | —                               | —                               | —                               | —                                |

**NOTE:** Arrows in the charts indicate that the preceding information is repeated.

# 1997-GRAND TOURING 583



## CAUTION

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

### CARBURETION

| Altitude                     |              | Sea Level  | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty        |
|------------------------------|--------------|------------|------------------|-------------------|-------------------|-------------------|--------------------|------------|
| Calibration                  |              |            |                  |                   |                   |                   |                    |            |
| Main jet                     |              | 280<br>270 | 250<br>240       | 230<br>220        | 210<br>200        | 190<br>180        | 170<br>160         | PTO<br>MAG |
| Jet needle                   |              | 6BGY15     | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Needle position              |              | 4          | ←                | ←                 | ←                 | ←                 | ←                  | —          |
| Slide cutaway                |              | 2.5        | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Pilot jet                    |              | 50         | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Air screw                    |              | 2.25       | ←                | ←                 | 2.0               | 1.75              | 1.50               | —          |
| Valve seat                   |              | 1.5        | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Needle jet                   |              | Q-6 (480)  | ←                | ←                 | Q-4 (480)         | ←                 | ←                  | 2          |
| Float level                  | mm           | 18.1       | ←                | ←                 | ←                 | ←                 | ←                  | —          |
| Idle                         | RPM<br>± 200 | 1800       | ←                | ←                 | ←                 | ←                 | ←                  | —          |
| Idle throttle valve position | mm           | 2.00       | 2.10             | 2.20              | 2.60              | 2.70              | 2.80               | —          |

### MAIN JET CHART

| Altitude         |  | Sea Level                | 600 m<br>2000 ft         | 1200 m<br>4000 ft        | 1800 m<br>6000 ft        | 2400 m<br>8000 ft        | 3000 m<br>10000 ft       | Qty                      |
|------------------|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Temperature      |  |                          |                          |                          |                          |                          |                          |                          |
| – 40°C<br>– 40°F |  | 310<br>300               | 280<br>270               | 250<br>240               | 230<br>220               | 210<br>200               | 190<br>180               | PTO<br>MAG               |
| – 30°C<br>– 20°F |  | 300<br>290               | 270<br>260               | 240<br>230               | 220<br>210               | 200<br>190               | 180<br>170               | PTO<br>MAG               |
| – 20°C<br>– 4°F  |  | <b>280</b><br><b>270</b> | <b>250</b><br><b>240</b> | <b>230</b><br><b>220</b> | <b>210</b><br><b>200</b> | <b>190</b><br><b>180</b> | <b>170</b><br><b>160</b> | <b>PTO</b><br><b>MAG</b> |
| – 10°C<br>14°F   |  | 270<br>260               | 240<br>230               | 220<br>210               | 200<br>190               | 180<br>170               | 160<br>150               | PTO<br>MAG               |
| 0°C<br>32°F      |  | 260<br>250               | 230<br>220               | 210<br>200               | 190<br>180               | 170<br>160               | 155<br>145               | PTO<br>MAG               |
| 10°C<br>50°F     |  | 250<br>240               | 220<br>210               | 200<br>190               | 180<br>170               | 160<br>155               | 145<br>135               | PTO<br>MAG               |
| 20°C<br>70°F     |  | 240<br>230               | 210<br>200               | 190<br>185               | 170<br>160               | 150<br>145               | 135<br>130               | PTO<br>MAG               |

NOTE: Arrows in the charts indicate that the preceding information is repeated.

# 1997-GRAND TOURING SE

## HIGH ALTITUDE KIT (P/N 861 7572 00)

### DRIVE PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>         | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> | <b>Qty</b> |
|-------------------------------------|--------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|------------|
| Spring                              | Blue/Pink<br>414 9163 00 | ←                              | Green/Violet<br>414 7628 00     | ←                               | ←                               | ←                                | 1          |
| Ramp                                | 417 0052 86              | ←                              | 417 0052 85                     | ←                               | ←                               | ←                                | 3          |
| Calibration screw position          | 3                        | 4                              | 2                               | 3                               | 4                               | 5                                | —          |
| Pin                                 | 417 0043 04              | ←                              | 417 0043 03                     | ←                               | ←                               | ←                                | 3          |
| Engagement RPM ± 100                | 3600                     | ←                              | 4800                            | ←                               | ←                               | ←                                | —          |
| Maximum RPM ± 100                   | 8500                     | ←                              | ←                               | ←                               | ←                               | ←                                | —          |

### DRIVEN PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>     | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2000 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|----------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | Beige<br>414 5589 00 | ←                              | ←                               | ←                               | ←                               | ←                                |
| Spring tension                      | Kg ± 0.7<br>lb ± 1.5 | 7.0<br>15.4                    | ←                               | ←                               | ←                               | ←                                |
| Cam angle                           | °<br>(degrees)       | 47                             | ←                               | ←                               | ←                               | ←                                |

### CHAINCASE and DRIVE AXLE

| <b>Altitude</b><br><b>Gearing</b> | <b>Sea Level</b> | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-----------------------------------|------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Top sprocket                      | 26               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Bottom sprocket                   | 44               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Chain, quantity of links          | 74               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Drive sprocket, quantity of teeth | 9                | —                              | —                               | —                               | —                               | —                                |

**NOTE:** Arrows in the charts indicate that the preceding information is repeated.

# 1997-GRAND TOURING SE



## CAUTION

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

### CARBURETION

| Altitude                        |              | Sea Level | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty |
|---------------------------------|--------------|-----------|------------------|-------------------|-------------------|-------------------|--------------------|-----|
| Calibration                     |              |           |                  |                   |                   |                   |                    |     |
| Main jet                        |              | 350       | ←                | ←                 | ←                 | ←                 | ←                  | 3   |
| Jet needle                      |              | 6DEY2     | ←                | ←                 | ←                 | ←                 | ←                  | 3   |
| Needle position                 |              | 4         | ←                | ←                 | ←                 | ←                 | ←                  | —   |
| Slide cutaway                   |              | 2.5       | ←                | ←                 | ←                 | ←                 | ←                  | 3   |
| Pilot jet                       |              | 50        | ←                | ←                 | ←                 | ←                 | ←                  | 3   |
| Air screw                       |              | 2.25      | ←                | ←                 | ←                 | ←                 | ←                  | 3   |
| Valve seat                      |              | 1.5       | ←                | ←                 | ←                 | ←                 | ←                  | 3   |
| Needle jet                      |              | P-7 (480) | ←                | ←                 | P-5 (480)         | ←                 | ←                  | 3   |
| Float level                     | mm           | 18.1      | ←                | ←                 | ←                 | ←                 | ←                  | —   |
| Idle                            | RPM<br>± 200 | 1800      | ←                | ←                 | ←                 | ←                 | ←                  | —   |
| Idle throttle<br>valve position | mm           | 1.40      | 1.50             | 1.70              | 1.80              | 1.90              | 2.00               | —   |

### MAIN JET CHART

| Altitude         |  | Sea Level | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty |
|------------------|--|-----------|------------------|-------------------|-------------------|-------------------|--------------------|-----|
| Temperature      |  |           |                  |                   |                   |                   |                    |     |
| - 40°C<br>- 40°F |  | 350       | ←                | ←                 | ←                 | ←                 | ←                  | 3   |
| - 30°C<br>- 20°F |  | 350       | ←                | ←                 | ←                 | ←                 | ←                  | 3   |
| - 20°C<br>- 4°F  |  | 350       | ←                | ←                 | ←                 | ←                 | ←                  | 3   |
| - 10°C<br>14°F   |  | 350       | ←                | ←                 | ←                 | ←                 | ←                  | 3   |
| 0°C<br>32°F      |  | 350       | ←                | ←                 | ←                 | ←                 | ←                  | 3   |
| 10°C<br>50°F     |  | 350       | ←                | ←                 | ←                 | ←                 | ←                  | 3   |
| 20°C<br>70°F     |  | 350       | ←                | ←                 | ←                 | ←                 | ←                  | 3   |

NOTE: Arrows in the charts indicate that the preceding information is repeated.

### ADDITIONAL INFORMATION

Unscrew Rave Valve cover approximately three (3) turns.

**HIGH ALTITUDE KIT (P/N 861 7571 00)****DRIVE PULLEY**

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>          | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> | <b>Qty</b> |
|-------------------------------------|---------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|------------|
| Spring                              | Blue/Green<br>414 8177 00 | ←                              | Blue/Blue<br>414 6894 00        | ←                               | ←                               | ←                                | 1          |
| Ramp                                | 417 0052 89               | ←                              | 417 0052 84                     | ←                               | ←                               | ←                                | 3          |
| Calibration<br>screw position       | 3                         | 4                              | 2                               | 4                               | 5                               | 6                                | —          |
| Pin                                 | 417 0043 03               | ←                              | ←                               | ←                               | ←                               | ←                                | 3          |
| Engagement<br>RPM ± 100             | 3800                      | ←                              | ←                               | ←                               | ←                               | ←                                | —          |
| Maximum<br>RPM ± 100                | 7000                      | ←                              | ←                               | ←                               | ←                               | ←                                | —          |

**DRIVEN PULLEY**

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>     | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2000 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|----------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | Orange               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Spring<br>tension                   | Kg ± 0.7<br>lb ± 1.5 | 6.1<br>13.4                    | ←                               | 6.8<br>15.0                     | ←                               | ←                                |
| Cam<br>angle                        | °<br>(degrees)       | 44                             | ←                               | ←                               | ←                               | ←                                |

**CHAINCASE and DRIVE AXLE**

| <b>Altitude</b><br><b>Gearing</b>    | <b>Sea Level</b> | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|--------------------------------------|------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Top sprocket                         | 23               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Bottom sprocket                      | 44               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Chain,<br>quantity of links          | 72               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Drive sprocket,<br>quantity of teeth | 9                | —                              | —                               | —                               | —                               | —                                |

**NOTE:** Arrows in the charts indicate that the preceding information is repeated.

# 1997-MX Z 440



## CAUTION

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

### CARBURETION

| Altitude                     |              | Sea Level  | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty        |
|------------------------------|--------------|------------|------------------|-------------------|-------------------|-------------------|--------------------|------------|
| Calibration                  |              |            |                  |                   |                   |                   |                    |            |
| Main jet                     |              | 205<br>195 | 195<br>185       | 185<br>175        | 170<br>160        | 160<br>150        | 150<br>140         | PTO<br>MAG |
| Jet needle                   |              | 6DH2       | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Needle position              |              | 3          | ←                | ←                 | 2                 | ←                 | ←                  | —          |
| Slide cutaway                |              | 2.5        | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Pilot jet                    |              | 35         | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Air screw                    |              | 1.5        | ←                | ←                 | 1.0               | ←                 | ←                  | —          |
| Valve seat                   |              | 1.5        | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Needle jet                   |              | P-0 (159)  | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Float level                  | mm           | 23.9       | ←                | ←                 | ←                 | ←                 | ←                  | —          |
| Idle                         | RPM<br>± 200 | 1650       | ←                | ←                 | ←                 | ←                 | ←                  | —          |
| Idle throttle valve position | mm           | 1.5        | ←                | ←                 | 1.7               | ←                 | ←                  | —          |

### MAIN JET CHART

| Altitude         |  | Sea Level | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty |
|------------------|--|-----------|------------------|-------------------|-------------------|-------------------|--------------------|-----|
| Temperature      |  |           |                  |                   |                   |                   |                    |     |
| – 40°C<br>– 40°F |  | 220       | 210              | 200               | 185               | 175               | 165                | PTO |
|                  |  | 210       | 200              | 190               | 175               | 165               | 155                | MAG |
| – 30°C<br>– 20°F |  | 210       | 200              | 190               | 175               | 165               | 155                | PTO |
|                  |  | 200       | 190              | 180               | 165               | 155               | 145                | MAG |
| – 20°C<br>– 4°F  |  | 205       | 195              | 185               | 170               | 160               | 160                | PTO |
|                  |  | 195       | 185              | 175               | 160               | 150               | 140                | MAG |
| – 10°C<br>14°F   |  | 200       | 190              | 180               | 165               | 155               | 145                | PTO |
|                  |  | 190       | 180              | 170               | 155               | 145               | 135                | MAG |
| 0°C<br>32°F      |  | 195       | 185              | 175               | 160               | 150               | 140                | PTO |
|                  |  | 185       | 175              | 165               | 150               | 140               | 130                | MAG |
| 10°C<br>50°F     |  | 185       | 175              | 165               | 150               | 140               | 135                | PTO |
|                  |  | 175       | 165              | 155               | 140               | 130               | 125                | MAG |
| 20°C<br>70°F     |  | 175       | 165              | 155               | 145               | 135               | 130                | PTO |
|                  |  | 165       | 155              | 145               | 135               | 125               | 120                | MAG |

NOTE: Arrows in the charts indicate that the preceding information is repeated.

# 1997-MX-Z 583

## HIGH ALTITUDE KIT (P/N 861 7569 00)

### DRIVE PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>          | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> | <b>Qty</b> |
|-------------------------------------|---------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|------------|
| Spring                              | Green/Blue<br>414 7682 00 | ←                              | ←                               | ←                               | ←                               | ←                                | 1          |
| Ramp                                | 417 0052 86               | ←                              | ←                               | 417 0052 89                     | ←                               | ←                                | 3          |
| Calibration<br>screw position       | 3                         | 4                              | 5                               | 4                               | 5                               | 6                                | —          |
| Pin                                 | 417 0043 03               | ←                              | ←                               | ←                               | ←                               | ←                                | 3          |
| Engagement<br>RPM ± 100             | 4400                      | ←                              | ←                               | 4500                            | ←                               | ←                                | 3          |
| Maximum<br>RPM ± 100                | 7900                      | ←                              | ←                               | ←                               | ←                               | ←                                | —          |

### DRIVEN PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>     | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2000 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|----------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | Beige<br>414 5589 00 | ←                              | ←                               | ←                               | ←                               | ←                                |
| Spring<br>tension                   | Kg ± 0.7<br>lb ± 1.5 | 7.0<br>15.4                    | ←                               | ←                               | ←                               | ←                                |
| Cam<br>angle                        | °<br>(degrees)       | 50                             | ←                               | ←                               | ←                               | ←                                |

### CHAINCASE and DRIVE AXLE

| <b>Altitude</b><br><b>Gearing</b>    | <b>Sea Level</b> | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|--------------------------------------|------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Top sprocket                         | 25               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Bottom sprocket                      | 44               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Chain,<br>quantity of links          | 74               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Drive sprocket,<br>quantity of teeth | 9                | —                              | —                               | —                               | —                               | —                                |

**NOTE:** Arrows in the charts indicate that the preceding information is repeated.



CAUTION

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

CARBURETION

| Altitude                     |              | Sea Level     | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty        |
|------------------------------|--------------|---------------|------------------|-------------------|-------------------|-------------------|--------------------|------------|
| Calibration                  |              |               |                  |                   |                   |                   |                    |            |
| Main jet                     |              | 280<br>260    | 260<br>240       | 230<br>210        | 210<br>190        | 190<br>170        | 170<br>150         | PTO<br>MAG |
| Jet needle                   |              | 7ECY1         | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Needle position              |              | 3             | ←                | ←                 | ←                 | ←                 | ←                  | —          |
| Slide cutaway                |              | 2.5           | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Pilot jet                    |              | 60            | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Air screw                    |              | 2.0           | ←                | ←                 | ←                 | 1.75              | 1.5                | —          |
| Valve seat                   |              | 1.5           | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Needle jet                   |              | AA-2<br>(224) | ←                | ←                 | AA-0<br>(224)     | ←                 | ←                  | 2          |
| Float level                  | mm           | 18.1          | ←                | ←                 | ←                 | ←                 | ←                  | —          |
| Idle                         | RPM<br>± 200 | 1800          | ←                | ←                 | ←                 | ←                 | ←                  | —          |
| Idle throttle valve position | mm           | 2.0           | 2.10             | 2.20              | 2.60              | 2.70              | 2.80               | —          |

MAIN JET CHART

| Altitude         |  | Sea Level  | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty        |
|------------------|--|------------|------------------|-------------------|-------------------|-------------------|--------------------|------------|
| Temperature      |  |            |                  |                   |                   |                   |                    |            |
| – 40°C<br>– 40°F |  | 310<br>290 | 280<br>260       | 250<br>230        | 230<br>210        | 210<br>190        | 190<br>170         | PTO<br>MAG |
| – 30°C<br>– 20°F |  | 290<br>270 | 270<br>250       | 240<br>220        | 220<br>200        | 200<br>180        | 180<br>160         | PTO<br>MAG |
| – 20°C<br>– 4°F  |  | 280<br>260 | 260<br>240       | 230<br>210        | 210<br>190        | 190<br>170        | 170<br>150         | PTO<br>MAG |
| – 10°C<br>14°F   |  | 270<br>250 | 250<br>230       | 220<br>200        | 200<br>180        | 180<br>160        | 160<br>145         | PTO<br>MAG |
| 0°C<br>32°F      |  | 250<br>230 | 240<br>220       | 210<br>190        | 190<br>170        | 170<br>155        | 150<br>135         | PTO<br>MAG |
| 10°C<br>50°F     |  | 240<br>220 | 230<br>210       | 200<br>170        | 180<br>160        | 160<br>145        | 145<br>130         | PTO<br>MAG |
| 20°C<br>70°F     |  | 230<br>210 | 220<br>190       | 190<br>160        | 170<br>150        | 155<br>135        | 135<br>120         | PTO<br>MAG |

NOTE: Arrows in the charts indicate that the preceding information is repeated.

# 1997-MX-Z 440 LC

## HIGH ALTITUDE KIT (P/N 861 7570 00)

### DRIVE PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>          | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> | <b>Qty</b> |
|-------------------------------------|---------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|------------|
| Spring                              | Pink/White<br>414 9914 00 | ←                              | Green/Pink<br>414 7569 00       | ←                               | ←                               | ←                                | 1          |
| Ramp                                | 417 0052 83               | ←                              | 417 0052 89                     | ←                               | ←                               | ←                                | 3          |
| Calibration screw position          | 3                         | 4                              | 2                               | 3                               | 4                               | 5                                | —          |
| Pin                                 | 417 0053 03               | ←                              | ←                               | ←                               | ←                               | ←                                | 3          |
| Engagement RPM $\pm$ 100            | 4400                      | ←                              | ←                               | ←                               | ←                               | ←                                | —          |
| Maximum RPM $\pm$ 100               | 8000                      | ←                              | ←                               | ←                               | ←                               | ←                                | —          |

### DRIVEN PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>             | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2000 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|------------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | Beige                        | ←                              | ←                               | ←                               | ←                               | ←                                |
| Spring tension                      | Kg $\pm$ 0.7<br>lb $\pm$ 1.5 | 7.0<br>15.4                    | ←                               | 5.5<br>12.1                     | ←                               | ←                                |
| Cam angle                           | °<br>(degrees)               | 44                             | ←                               | ←                               | ←                               | ←                                |

### CHAINCASE and DRIVE AXLE

| <b>Altitude</b><br><b>Gearing</b> | <b>Sea Level</b> | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-----------------------------------|------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Top sprocket                      | 23               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Bottom sprocket                   | 44               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Chain, quantity of links          | 72               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Drive sprocket, quantity of teeth | 9                | —                              | —                               | —                               | —                               | —                                |

**NOTE:** Arrows in the charts indicate that the preceding information is repeated.

# 1997-MX-Z 440 LC



## CAUTION

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

### CARBURETION

| Altitude<br>Calibration      |              | Sea Level  | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty        |
|------------------------------|--------------|------------|------------------|-------------------|-------------------|-------------------|--------------------|------------|
| Main jet                     |              | 240<br>210 | 230<br>200       | 220<br>190        | 200<br>170        | 185<br>155        | 175<br>145         | PTO<br>MAG |
| Jet needle                   |              | 6FJ43      | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Needle position              |              | 2          | ←                | ←                 | ←                 | ←                 | ←                  | —          |
| Slide cutaway                |              | 2.5        | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Pilot jet                    |              | 40         | ←                | ←                 | 50                | ←                 | ←                  | 2          |
| Air screw                    |              | .5         | ←                | ←                 | .75               | ←                 | ←                  | —          |
| Valve seat                   |              | 1.5        | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Needle jet                   |              | P-8 (159)  | ←                | P-6 (159)         | P-5 (159)         | ←                 | ←                  | 2          |
| Float level                  | mm           | 23.9       | ←                | ←                 | ←                 | ←                 | ←                  | —          |
| Idle                         | RPM<br>± 200 | 1700       | ←                | ←                 | ←                 | ←                 | ←                  | —          |
| Idle throttle valve position | mm           | 1.8        | 1.85             | 1.9               | 2.0               | 2.1               | 2.2                | —          |

### MAIN JET CHART

| Altitude<br>Temperature |  | Sea Level  | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty        |
|-------------------------|--|------------|------------------|-------------------|-------------------|-------------------|--------------------|------------|
| – 40°C<br>– 40°F        |  | 260        | 250              | 240               | 220               | 200               | 175                | PTO        |
|                         |  | 230        | 220              | 210               | 200               | 175               | 165                | MAG        |
| – 30°C<br>– 20°F        |  | 250        | 240              | 230               | 210               | 195               | 185                | PTO        |
|                         |  | 220        | 210              | 200               | 180               | 165               | 155                | MAG        |
| – 20°C<br>– 4°F         |  | <b>240</b> | <b>230</b>       | <b>220</b>        | <b>200</b>        | <b>185</b>        | <b>175</b>         | <b>PTO</b> |
|                         |  | <b>210</b> | <b>200</b>       | <b>190</b>        | <b>170</b>        | <b>155</b>        | <b>145</b>         | <b>MAG</b> |
| – 10°C<br>14°F          |  | 230        | 220              | 210               | 190               | 175               | 165                | PTO        |
|                         |  | 200        | 190              | 180               | 160               | 145               | 125                | MAG        |
| 0°C<br>32°F             |  | 220        | 210              | 200               | 180               | 165               | 155                | PTO        |
|                         |  | 190        | 180              | 170               | 150               | 135               | 125                | MAG        |
| 10°C<br>50°F            |  | 210        | 200              | 190               | 170               | 155               | 145                | PTO        |
|                         |  | 180        | 170              | 160               | 140               | 125               | 115                | MAG        |
| 20°C<br>70°F            |  | 170        | 190              | 180               | 160               | 145               | 135                | PTO        |
|                         |  | 200        | 160              | 150               | 130               | 115               | 105                | MAG        |

NOTE: Arrows in the charts indicate that the preceding information is repeated.

# 1997-MX-Z 670

## HIGH ALTITUDE KIT (P/N 861 7568 00)

### DRIVE PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>             | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> | <b>Qty</b> |
|-------------------------------------|------------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|------------|
| Spring                              | Violet/Yellow<br>415 0153 00 | ←                              | ←                               | ←                               | ←                               | ←                                | 1          |
| Ramp                                | 417 0052 86                  | ←                              | ←                               | ←                               | ←                               | ←                                | 3          |
| Calibration<br>screw position       | 3                            | 4                              | 5                               | 4                               | 5                               | 6                                | —          |
| Pin                                 | 417 0043 04                  | ←                              | ←                               | 417 0043 03                     | ←                               | ←                                | 3          |
| Engagement<br>RPM ± 100             | 3800                         | ←                              | ←                               | 4500                            | ←                               | ←                                | 3          |
| Maximum<br>RPM ± 100                | 7700                         | ←                              | ←                               | ←                               | ←                               | ←                                | —          |

### DRIVEN PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>     | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2000 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|----------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | Beige<br>414 5589 00 | ←                              | ←                               | ←                               | ←                               | ←                                |
| Spring<br>tension                   | Kg ± 0.7<br>lb ± 1.5 | 7.0<br>15.4                    | ←                               | ←                               | ←                               | ←                                |
| Cam<br>angle                        | °<br>(degrees)       | 50                             | ←                               | ←                               | ←                               | ←                                |

### CHAINCASE and DRIVE AXLE

| <b>Altitude</b><br><b>Gearing</b>    | <b>Sea Level</b> | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|--------------------------------------|------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Top sprocket                         | 26               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Bottom sprocket                      | 44               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Chain,<br>quantity of links          | 74               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Drive sprocket,<br>quantity of teeth | 9                | —                              | —                               | —                               | —                               | —                                |

**NOTE:** Arrows in the charts indicate that the preceding information is repeated.

# 1997-MX-Z 670



## CAUTION

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

### CARBURETION

| Altitude<br>Calibration      |              | Sea Level     | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty        |
|------------------------------|--------------|---------------|------------------|-------------------|-------------------|-------------------|--------------------|------------|
| Main jet                     |              | 300<br>270    | 280<br>250       | 260<br>230        | 240<br>210        | 220<br>200        | 200<br>180         | PTO<br>MAG |
| Jet needle                   |              | 7EDY1         | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Needle position              |              | 3             | ←                | ←                 | 2                 | ←                 | ←                  | —          |
| Slide cutaway                |              | 2.5           | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Pilot jet                    |              | 60            | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Air screw                    |              | 2.25          | ←                | 2.0               | 1.75              | 1.5               | 1.125              | —          |
| Valve seat                   |              | 1.5           | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Needle jet                   |              | AA-2<br>(224) | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Float level                  | mm           | 18.1          | ←                | ←                 | ←                 | ←                 | ←                  | —          |
| Idle                         | RPM<br>± 200 | 1700          | ←                | ←                 | ←                 | ←                 | ←                  | —          |
| Idle throttle valve position | mm           | 2.10          | 2.15             | 2.25              | 2.40              | 2.55              | 2.65               | —          |

### MAIN JET CHART

| Altitude<br>Temperature |  | Sea Level                | 600 m<br>2000 ft         | 1200 m<br>4000 ft        | 1800 m<br>6000 ft        | 2400 m<br>8000 ft        | 3000 m<br>10000 ft       | Qty                      |
|-------------------------|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| – 40°C<br>– 40°F        |  | 320<br>290               | 300<br>270               | 280<br>250               | 260<br>250               | 240<br>220               | 220<br>200               | PTO<br>MAG               |
| – 30°C<br>– 20°F        |  | 310<br>280               | 290<br>260               | 270<br>240               | 250<br>220               | 230<br>210               | 210<br>190               | PTO<br>MAG               |
| – 20°C<br>– 4°F         |  | <b>300</b><br><b>270</b> | <b>280</b><br><b>250</b> | <b>260</b><br><b>230</b> | <b>240</b><br><b>210</b> | <b>220</b><br><b>200</b> | <b>200</b><br><b>180</b> | <b>PTO</b><br><b>MAG</b> |
| – 10°C<br>14°F          |  | 290<br>260               | 270<br>240               | 250<br>220               | 230<br>200               | 210<br>190               | 190<br>170               | PTO<br>MAG               |
| 0°C<br>32°F             |  | 280<br>250               | 260<br>230               | 240<br>210               | 220<br>190               | 200<br>180               | 180<br>170               | PTO<br>MAG               |
| 10°C<br>50°F            |  | 270<br>240               | 250<br>220               | 230<br>200               | 210<br>190               | 200<br>180               | 180<br>170               | PTO<br>MAG               |
| 20°C<br>70°F            |  | 260<br>240               | 240<br>210               | 220<br>200               | 200<br>180               | 180<br>170               | 170<br>160               | PTO<br>MAG               |

NOTE: Arrows in the charts indicate that the preceding information is repeated.

# 1997-FORMULA S

## HIGH ALTITUDE KIT (P/N 861 7567 00)

### DRIVE PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>                     | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> | <b>Qty</b> |
|-------------------------------------|--------------------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|------------|
| Spring                              | Red/Blue<br>on Violet<br>417 1184 00 | ←                              | ←                               | ←                               | ←                               | ←                                | 1          |
| Block                               | 417 1181 00                          | ←                              | ←                               | ←                               | ←                               | ←                                | 3          |
| Weight                              | 1 of<br>417 1204 00                  | ←                              | 5 of<br>417 1144 00             | 4 of<br>←                       | 3 of<br>←                       | 2 of<br>←                        | x 3        |
| Capsule                             | 417 1145 00                          | ←                              | ←                               | ←                               | ←                               | ←                                | x 3        |
| Engagement<br>RPM ± 100             | 3100                                 | ←                              | ←                               | ←                               | ←                               | ←                                | —          |
| Maximum<br>RPM ± 100                | 6900                                 | ←                              | ←                               | ←                               | ←                               | ←                                | —          |

### DRIVEN PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>     | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2000 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|----------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | Orange               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Spring<br>tension                   | Kg ± 0.7<br>lb ± 1.5 | 4.8<br>10.6                    | 5.5<br>12.1                     | ←                               | ←                               | ←                                |
| Cam<br>angle                        | °<br>(degrees)       | 44                             | Á                               | ←                               | ←                               | ←                                |

### CHAINCASE and DRIVE AXLE

| <b>Altitude</b><br><b>Gearing</b>    | <b>Sea Level</b> | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|--------------------------------------|------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Top sprocket                         | 21               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Bottom sprocket                      | 44               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Chain,<br>quantity of links          | 72               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Drive sprocket,<br>quantity of teeth | 9                | —                              | —                               | —                               | —                               | —                                |

**NOTE:** Arrows in the charts indicate that the preceding information is repeated.

# 1997-FORMULA S



## CAUTION

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

### CARBURETION

| Altitude                     |              | Sea Level    | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty        |
|------------------------------|--------------|--------------|------------------|-------------------|-------------------|-------------------|--------------------|------------|
| Calibration                  |              |              |                  |                   |                   |                   |                    |            |
| Main jet                     |              | 140          | 135              | 130               | 125               | 115               | 110                | 2          |
| Jet needle                   |              | 6DP9         | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Needle position              |              | 3            | ←                | ←                 | 2                 | ←                 | ←                  | —          |
| Slide cutaway                |              | 2.5          | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Pilot jet                    |              | 40           | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Air screw                    |              | 1.25<br>1.25 | ←                | ←                 | .5<br>1.0         | ←                 | ←                  | PTO<br>MAG |
| Valve seat                   |              | 1.5          | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Needle jet                   |              | P-0 (159)    | ←                | ←                 | O-8 (159)         | ←                 | ←                  | 2          |
| Float level                  | mm           | 23.9         | ←                | ←                 | ←                 | ←                 | ←                  | —          |
| Idle                         | RPM<br>± 200 | 1650         | ←                | ←                 | ←                 | ←                 | ←                  | —          |
| Idle throttle valve position | mm           | 1.3          | ←                | ←                 | 1.6               | ←                 | ←                  | —          |

### MAIN JET CHART

| Altitude         |  | Sea Level | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty |
|------------------|--|-----------|------------------|-------------------|-------------------|-------------------|--------------------|-----|
| Temperature      |  |           |                  |                   |                   |                   |                    |     |
| - 40°C<br>- 40°F |  | 150       | 145              | 140               | 135               | 125               | 120                | 2   |
| - 30°C<br>- 20°F |  | 145       | 140              | 135               | 130               | 120               | 115                | 2   |
| - 20°C<br>- 4°F  |  | 140       | 135              | 130               | 125               | 115               | 110                | 2   |
| - 10°C<br>14°F   |  | 135       | 130              | 125               | 120               | 110               | 105                | 2   |
| 0°C<br>32°F      |  | 130       | 125              | 120               | 115               | 105               | 100                | 2   |
| 10°C<br>50°F     |  | 125       | 120              | 115               | 110               | 100               | 95                 | 2   |
| 20°C<br>70°F     |  | 120       | 115              | 110               | 105               | 95                | 90                 | 2   |

NOTE: Arrows in the charts indicate that the preceding information is repeated.

# 1997-FORMULA SL

## HIGH ALTITUDE KIT (P/N 861 7566 00)

### DRIVE PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>           | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> | <b>Qty</b> |
|-------------------------------------|----------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|------------|
| Spring                              | Blue/Yellow<br>414 6895 00 | ←                              | Blue/Blue<br>414 6894 00        | ←                               | ←                               | ←                                | 1          |
| Ramp                                | 417 0052 84                | ←                              | ←                               | ←                               | ←                               | ←                                | 3          |
| Calibration screw position          | 3                          | 4                              | 2                               | 3                               | 4                               | 5                                | —          |
| Pin                                 | 417 0043 03                | ←                              | ←                               | ←                               | ←                               | ←                                | 3          |
| Engagement RPM $\pm$ 100            | 3600                       | ←                              | ←                               | ←                               | ←                               | ←                                | —          |
| Maximum RPM $\pm$ 100               | 7100                       | ←                              | ←                               | ←                               | ←                               | ←                                | —          |

### DRIVEN PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>             | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2000 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|------------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | Orange                       | ←                              | ←                               | ←                               | ←                               | ←                                |
| Spring tension                      | Kg $\pm$ 0.7<br>lb $\pm$ 1.5 | 4.8<br>10.6                    | ←                               | 5.5<br>12.1                     | ←                               | ←                                |
| Cam angle                           | °<br>(degrees)               | 44                             | ←                               | ←                               | ←                               | ←                                |

### CHAINCASE and DRIVE AXLE

| <b>Altitude</b><br><b>Gearing</b> | <b>Sea Level</b> | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-----------------------------------|------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Top sprocket                      | 22               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Bottom sprocket                   | 44               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Chain, quantity of links          | 72               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Drive sprocket, quantity of teeth | 9                | —                              | —                               | —                               | —                               | —                                |

**NOTE:** Arrows in the charts indicate that the preceding information is repeated.

# 1997-FORMULA SL



## CAUTION

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

### CARBURETION

| Altitude                        |              | Sea Level  | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty        |
|---------------------------------|--------------|------------|------------------|-------------------|-------------------|-------------------|--------------------|------------|
| Calibration                     |              |            |                  |                   |                   |                   |                    |            |
| Main jet                        |              | 180<br>170 | 170<br>160       | 160<br>150        | 150<br>140        | 140<br>130        | 130<br>120         | PTO<br>MAG |
| Jet needle                      |              | 6DH2       | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Needle position                 |              | 3          | ←                | ←                 | 2                 | ←                 | ←                  | —          |
| Slide cutaway                   |              | 2.5        | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Pilot jet                       |              | 40         | ←                | ←                 | 45                | ←                 | ←                  | 2          |
| Air screw                       |              | 1.825      | ←                | ←                 | 1.5               | ←                 | ←                  | —          |
| Valve seat                      |              | 1.5        | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Needle jet                      |              | P-0 (159)  | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Float level                     | mm           | 23.9       | ←                | ←                 | ←                 | ←                 | ←                  | —          |
| Idle                            | RPM<br>± 200 | 1650       | ←                | ←                 | ←                 | ←                 | ←                  | —          |
| Idle throttle<br>valve position | mm           | 1.5        | ←                | 1.6               | 1.7               | 1.8               | 1.85               | —          |
| Exhaust restricting ring        |              | N/A        | ←                | ←                 | 514 0434 00       | ←                 | ←                  | 1          |

### MAIN JET CHART

| Altitude         |  | Sea Level                | 600 m<br>2000 ft         | 1200 m<br>4000 ft        | 1800 m<br>6000 ft        | 2400 m<br>8000 ft        | 3000 m<br>10000 ft       | Qty                      |
|------------------|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Calibration      |  |                          |                          |                          |                          |                          |                          |                          |
| - 40°C<br>- 40°F |  | 200<br>190               | 190<br>180               | 175<br>165               | 165<br>155               | 155<br>145               | 140<br>130               | PTO<br>MAG               |
| - 30°C<br>- 20°F |  | 190<br>180               | 180<br>170               | 165<br>155               | 155<br>145               | 145<br>135               | 135<br>125               | PTO<br>MAG               |
| - 20°C<br>- 4°F  |  | <b>180</b><br><b>170</b> | <b>170</b><br><b>160</b> | <b>160</b><br><b>150</b> | <b>150</b><br><b>140</b> | <b>140</b><br><b>130</b> | <b>130</b><br><b>120</b> | <b>PTO</b><br><b>MAG</b> |
| - 10°C<br>14°F   |  | 170<br>160               | 160<br>150               | 155<br>145               | 145<br>135               | 135<br>125               | 125<br>115               | PTO<br>MAG               |
| 0°C<br>32°F      |  | 165<br>155               | 155<br>145               | 150<br>140               | 140<br>130               | 130<br>120               | 120<br>110               | PTO<br>MAG               |
| 10°C<br>50°F     |  | 160<br>150               | 150<br>140               | 140<br>130               | 130<br>120               | 125<br>115               | 115<br>105               | PTO<br>MAG               |
| 20°C<br>70°F     |  | 155<br>145               | 145<br>135               | 135<br>125               | 125<br>115               | 120<br>110               | 110<br>100               | PTO<br>MAG               |

NOTE: Arrows in the charts indicate that the preceding information is repeated.

# 1997-FORMULA 583

## HIGH ALTITUDE KIT (P/N 861 7564 00)

### DRIVE PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>           | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> | <b>Qty</b> |
|-------------------------------------|----------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|------------|
| Spring                              | Violet/Blue<br>415 0349 00 | ←                              | ←                               | ←                               | ←                               | ←                                | 1          |
| Ramp                                | 417 0052 86                | ←                              | ←                               | 417 0052 89                     | ←                               | ←                                | 3          |
| Calibration<br>screw position       | 3                          | 4                              | 5                               | 4                               | 5                               | 6                                | —          |
| Pin                                 | 417 0043 03                | ←                              | ←                               | ←                               | ←                               | ←                                | 3          |
| Engagement<br>RPM ± 100             | 4100                       | ←                              | ←                               | 4200                            | ←                               | ←                                | —          |
| Maximum<br>RPM ± 100                | 7900                       | ←                              | ←                               | ←                               | ←                               | ←                                | —          |

### DRIVEN PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>     | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2000 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|----------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | Beige                | ←                              | ←                               | ←                               | ←                               | ←                                |
| Spring<br>tension                   | Kg ± 0.7<br>lb ± 1.5 | 7.0<br>15.4                    | ←                               | ←                               | ←                               | ←                                |
| Cam<br>angle                        | °<br>(degrees)       | 50                             | ←                               | ←                               | ←                               | ←                                |

### CHAINCASE and DRIVE AXLE

| <b>Altitude</b><br><b>Gearing</b>    | <b>Sea Level</b> | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|--------------------------------------|------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Top sprocket                         | 25               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Bottom sprocket                      | 44               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Chain,<br>quantity of links          | 74               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Drive sprocket,<br>quantity of teeth | 9                | —                              | —                               | —                               | —                               | —                                |

**NOTE:** Arrows in the charts indicate that the preceding information is repeated.

# 1997-FORMULA 583



## CAUTION

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

### CARBURETION

| Altitude                     |              | Sea Level  | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty        |
|------------------------------|--------------|------------|------------------|-------------------|-------------------|-------------------|--------------------|------------|
| Calibration                  |              |            |                  |                   |                   |                   |                    |            |
| Main jet                     |              | 280<br>270 | 250<br>240       | 230<br>220        | 210<br>200        | 190<br>180        | 170<br>160         | PTO<br>MAG |
| Jet needle                   |              | 6BGY15     | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Needle position              |              | 4          | ←                | ←                 | ←                 | ←                 | ←                  | —          |
| Slide cutaway                |              | 2.5        | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Pilot jet                    |              | 50         | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Air screw                    |              | 2.25       | ←                | ←                 | 2.0               | 1.75              | 1.5                | —          |
| Valve seat                   |              | 1.5        | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Needle jet                   |              | Q-6 (480)  | ←                | ←                 | Q-4 (480)         | ←                 | ←                  | 2          |
| Float level                  | mm           | 18.1       | ←                | ←                 | ←                 | ←                 | ←                  | —          |
| Idle                         | RPM<br>± 200 | 1800       | ←                | ←                 | ←                 | ←                 | ←                  | —          |
| Idle throttle valve position | mm           | 2.0        | 2.10             | 2.20              | 2.60              | 2.70              | 2.80               | —          |

### MAIN JET CHART

| Altitude         |  | Sea Level                | 600 m<br>2000 ft         | 1200 m<br>4000 ft        | 1800 m<br>6000 ft        | 2400 m<br>8000 ft        | 3000 m<br>10000 ft       | Qty                      |
|------------------|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Temperature      |  |                          |                          |                          |                          |                          |                          |                          |
| – 40°C<br>– 40°F |  | 310<br>300               | 280<br>270               | 250<br>240               | 230<br>220               | 210<br>200               | 170<br>180               | PTO<br>MAG               |
| – 30°C<br>– 20°F |  | 300<br>290               | 270<br>260               | 240<br>230               | 220<br>210               | 200<br>190               | 180<br>170               | PTO<br>MAG               |
| – 20°C<br>– 4°F  |  | <b>280</b><br><b>270</b> | <b>250</b><br><b>240</b> | <b>230</b><br><b>220</b> | <b>210</b><br><b>200</b> | <b>190</b><br><b>180</b> | <b>170</b><br><b>160</b> | <b>PTO</b><br><b>MAG</b> |
| – 10°C<br>14°F   |  | 270<br>260               | 240<br>230               | 220<br>210               | 200<br>190               | 180<br>170               | 160<br>150               | PTO<br>MAG               |
| 0°C<br>32°F      |  | 260<br>250               | 230<br>220               | 210<br>200               | 190<br>180               | 170<br>160               | 155<br>145               | PTO<br>MAG               |
| 10°C<br>50°F     |  | 250<br>240               | 220<br>210               | 200<br>190               | 180<br>170               | 160<br>155               | 145<br>135               | PTO<br>MAG               |
| 20°C<br>70°F     |  | 240<br>230               | 210<br>200               | 190<br>185               | 170<br>160               | 150<br>145               | 135<br>130               | PTO<br>MAG               |

NOTE: Arrows in the charts indicate that the preceding information is repeated.

# 1997-FORMULA 500/500 DELUXE

## HIGH ALTITUDE KIT (P/N 861 7565 00)

### DRIVE PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>            | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> | <b>Qty</b> |
|-------------------------------------|-----------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|------------|
| Spring                              | Violet/Green<br>415 0154 00 | ←                              | Green/Violet<br>414 7628 00     | ←                               | ←                               | ←                                | 1          |
| Ramp                                | 417 0052 81                 | ←                              | ←                               | ←                               | ←                               | ←                                | 3          |
| Calibration screw position          | 3                           | 4                              | 3                               | 4                               | 5                               | 6                                | —          |
| Pin                                 | 417 0043 03                 | ←                              | ←                               | ←                               | ←                               | ←                                | 3          |
| Engagement RPM $\pm$ 100            | 4200                        | ←                              | 4600                            | ←                               | ←                               | ←                                | —          |
| Maximum RPM $\pm$ 100               | 7750                        | ←                              | ←                               | ←                               | ←                               | ←                                | —          |

### DRIVEN PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>             | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2000 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|------------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | Beige                        | ←                              | ←                               | ←                               | ←                               | ←                                |
| Spring tension                      | Kg $\pm$ 0.7<br>lb $\pm$ 1.5 | 7.0<br>15.4                    | ←                               | ←                               | ←                               | ←                                |
| Cam angle                           | °<br>(degrees)               | 50                             | ←                               | ←                               | ←                               | ←                                |

### CHAINCASE and DRIVE AXLE

| <b>Altitude</b><br><b>Gearing</b> | <b>Sea Level</b> | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-----------------------------------|------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Top sprocket                      | 25               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Bottom sprocket                   | 44               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Chain, quantity of links          | 74               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Drive sprocket, quantity of teeth | 9                | —                              | —                               | —                               | —                               | —                                |

**NOTE:** Arrows in the charts indicate that the preceding information is repeated.

# 1997-FORMULA 500/500 DELUXE



## CAUTION

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

### CARBURETION

| Altitude<br>Calibration      |              | Sea Level  | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty        |
|------------------------------|--------------|------------|------------------|-------------------|-------------------|-------------------|--------------------|------------|
| Main jet                     |              | 310<br>290 | 290<br>270       | 270<br>250        | 240<br>230        | 220<br>210        | 200<br>190         | PTO<br>MAG |
| Jet needle                   |              | 6FEY1      | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Needle position              |              | 3          | ←                | ←                 | 2                 | ←                 | ←                  | —          |
| Slide cutaway                |              | 2.5        | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Pilot jet                    |              | 50         | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Air screw                    |              | 1.50       | ←                | 1.25              | ←                 | ←                 | ←                  | —          |
| Valve seat                   |              | 1.5        | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Needle jet                   |              | P-3 (480)  | ←                | ←                 | ←                 | P-1 (480)         | ←                  | 2          |
| Float level                  | mm           | 18.1       | ←                | ←                 | ←                 | ←                 | ←                  | —          |
| Idle                         | RPM<br>± 200 | 1800       | ←                | ←                 | ←                 | ←                 | ←                  | —          |
| Idle throttle valve position | mm           | 1.8        | 1.85             | 1.9               | 2.0               | 2.1               | 2.15               | —          |

### MAIN JET CHART

| Altitude<br>Temperature |  | Sea Level | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty |
|-------------------------|--|-----------|------------------|-------------------|-------------------|-------------------|--------------------|-----|
| – 40°C<br>– 40°F        |  | 330       | 310              | 290               | 260               | 240               | 220                | PTO |
|                         |  | 310       | 290              | 270               | 250               | 230               | 210                | MAG |
| – 30°C<br>– 20°F        |  | 320       | 300              | 280               | 250               | 230               | 210                | PTO |
|                         |  | 300       | 280              | 260               | 240               | 220               | 200                | MAG |
| – 20°C<br>– 4°F         |  | 310       | 290              | 270               | 240               | 220               | 200                | PTO |
|                         |  | 290       | 270              | 250               | 230               | 210               | 190                | MAG |
| – 10°C<br>14°F          |  | 300       | 280              | 260               | 230               | 210               | 190                | PTO |
|                         |  | 280       | 260              | 240               | 220               | 200               | 180                | MAG |
| 0°C<br>32°F             |  | 290       | 270              | 250               | 220               | 200               | 180                | PTO |
|                         |  | 270       | 250              | 230               | 210               | 190               | 170                | MAG |
| 10°C<br>50°F            |  | 280       | 260              | 240               | 210               | 190               | 170                | PTO |
|                         |  | 260       | 240              | 220               | 200               | 180               | 160                | MAG |
| 20°C<br>70°F            |  | 270       | 250              | 230               | 200               | 180               | 160                | PTO |
|                         |  | 250       | 230              | 210               | 190               | 170               | 150                | MAG |

NOTE: Arrows in the charts indicate that the preceding information is repeated.

# 1997-FORMULA Z

## HIGH ALTITUDE KIT (P/N 861 7563 00)

### DRIVE PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>           | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> | <b>Qty</b> |
|-------------------------------------|----------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|------------|
| Spring                              | Violet/Blue<br>415 0349 00 | ←                              | ←                               | ←                               | ←                               | ←                                | 1          |
| Ramp                                | 417 0052 86                | ←                              | ←                               | 417 0052 89                     | ←                               | ←                                | 3          |
| Calibration<br>screw position       | 3                          | 4                              | 5                               | 4                               | 5                               | 6                                | —          |
| Pin                                 | 417 0043 03                | ←                              | ←                               | ←                               | ←                               | ←                                | 3          |
| Engagement<br>RPM ± 100             | 4100                       | ←                              | ←                               | 4200                            | ←                               | ←                                | —          |
| Maximum<br>RPM ± 100                | 7900                       | ←                              | ←                               | ←                               | ←                               | ←                                | —          |

### DRIVEN PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>     | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2000 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|----------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | Beige                | ←                              | ←                               | ←                               | ←                               | ←                                |
| Spring<br>tension                   | Kg ± 0.7<br>lb ± 1.5 | 7.0<br>15.4                    | ←                               | ←                               | ←                               | ←                                |
| Cam<br>angle                        | °<br>(degrees)       | 50                             | 44                              | ←                               | ←                               | ←                                |

### CHAINCASE and DRIVE AXLE

| <b>Altitude</b><br><b>Gearing</b>    | <b>Sea Level</b> | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|--------------------------------------|------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Top sprocket                         | 25               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Bottom sprocket                      | 44               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Chain,<br>quantity of links          | 74               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Drive sprocket,<br>quantity of teeth | 9                | —                              | —                               | —                               | —                               | —                                |

**NOTE:** Arrows in the charts indicate that the preceding information is repeated.

1997-FORMULA Z



CAUTION

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

CARBURETION

| Altitude                     |              | Sea Level     | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty        |
|------------------------------|--------------|---------------|------------------|-------------------|-------------------|-------------------|--------------------|------------|
| Calibration                  |              |               |                  |                   |                   |                   |                    |            |
| Main jet                     |              | 280<br>260    | 260<br>240       | 230<br>210        | 210<br>190        | 190<br>170        | 170<br>150         | PTO<br>MAG |
| Jet needle                   |              | 7ECY1         | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Needle position              |              | 3             | ←                | ←                 | ←                 | ←                 | ←                  | —          |
| Slide cutaway                |              | 2.5           | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Pilot jet                    |              | 60            | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Air screw                    |              | 2.0           | ←                | ←                 | ←                 | 1.75              | 1.5                | —          |
| Valve seat                   |              | 1.5           | ←                | ←                 | ←                 | ←                 | ←                  | 2          |
| Needle jet                   |              | AA-2<br>(224) | ←                | ←                 | AA-0<br>(224)     | ←                 | ←                  | 2          |
| Float level                  | mm           | 18.1          | ←                | ←                 | ←                 | ←                 | ←                  | —          |
| Idle                         | RPM<br>± 200 | 1800          | ←                | ←                 | ←                 | ←                 | ←                  | —          |
| Idle throttle valve position | mm           | 2.0           | 2.10             | 2.20              | 2.60              | 2.70              | 2.80               | —          |

MAIN JET CHART

| Altitude         | Sea Level  | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty        |
|------------------|------------|------------------|-------------------|-------------------|-------------------|--------------------|------------|
| Temperature      |            |                  |                   |                   |                   |                    |            |
| – 40°C<br>– 40°F | 310<br>290 | 280<br>260       | 250<br>230        | 230<br>210        | 210<br>190        | 190<br>170         | PTO<br>MAG |
| – 30°C<br>– 20°F | 290<br>270 | 270<br>250       | 240<br>220        | 220<br>200        | 200<br>180        | 180<br>160         | PTO<br>MAG |
| – 20°C<br>– 4°F  | 280<br>260 | 260<br>240       | 230<br>210        | 210<br>190        | 190<br>170        | 170<br>150         | PTO<br>MAG |
| – 10°C<br>14°F   | 270<br>250 | 250<br>230       | 220<br>200        | 200<br>180        | 180<br>160        | 160<br>145         | PTO<br>MAG |
| 0°C<br>32°F      | 250<br>230 | 240<br>220       | 210<br>190        | 190<br>170        | 170<br>155        | 150<br>135         | PTO<br>MAG |
| 10°C<br>50°F     | 240<br>220 | 230<br>210       | 200<br>170        | 180<br>160        | 160<br>145        | 145<br>130         | PTO<br>MAG |
| 20°C<br>70°F     | 230<br>200 | 220<br>190       | 190<br>160        | 170<br>150        | 155<br>135        | 135<br>120         | PTO<br>MAG |

NOTE: Arrows in the charts indicate that the preceding information is repeated.

# 1997-FORMULA III AND FORMULA III LT

## HIGH ALTITUDE KIT (P/N 861 7562 00)

### DRIVE PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>          | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> | <b>Qty</b> |
|-------------------------------------|---------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|------------|
| Spring                              | Pink/White<br>414 9914 00 | ←                              | ←                               | ←                               | ←                               | ←                                | 1          |
| Ramp                                | 417 0052 81               | ←                              | ←                               | ←                               | ←                               | ←                                | 3          |
| Calibration screw position          | 4                         | 5                              | 6                               | 2                               | 3                               | 4                                | —          |
| Pin                                 | 417 0043 04               | ←                              | 417 0043 03                     | ←                               | ←                               | ←                                | 3          |
| Engagement RPM $\pm$ 100            | 4500                      | ←                              | ←                               | ←                               | ←                               | ←                                | —          |
| Maximum RPM $\pm$ 100               | 8400                      | ←                              | ←                               | ←                               | ←                               | ←                                | —          |

### DRIVEN PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>             | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2000 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|------------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | Beige<br>414 5589 00         | ←                              | ←                               | ←                               | ←                               | ←                                |
| Spring tension                      | Kg $\pm$ 0.7<br>lb $\pm$ 1.5 | 7.0<br>15.4                    | ←                               | ←                               | ←                               | ←                                |
| Cam angle                           | °<br>(degrees)               | 50<br>504 0961 00              | ←                               | ←                               | ←                               | 44                               |

### CHAINCASE and DRIVE AXLE

| <b>Altitude</b><br><b>Gearing</b>         | <b>Sea Level</b> | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------------|------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Top sprocket (Formula III)                | 25               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Top sprocket (Formula III LT)             | 23               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Bottom sprocket                           | 44               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Chain, quantity of links (Formula III)    | 74               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Chain, quantity of links (Formula III LT) | 72               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Drive sprocket, quantity of teeth         | 9                | —                              | —                               | —                               | —                               | —                                |

**NOTE:** Arrows in the charts indicate that the preceding information is repeated.

# 1997-FORMULA III AND FORMULA III LT



## CAUTION

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

### CARBURETION

| Altitude                        |              | Sea Level | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty |
|---------------------------------|--------------|-----------|------------------|-------------------|-------------------|-------------------|--------------------|-----|
| Calibration                     |              |           |                  |                   |                   |                   |                    |     |
| Main jet                        |              | 330       | 300              | 280               | 250               | 220               | 200                | 3   |
| Jet needle                      |              | 6DEY4     | ←                | ←                 | ←                 | ←                 | ←                  | 3   |
| Needle position                 |              | 3         | ←                | 2                 | ←                 | ←                 | 1                  | —   |
| Slide cutaway                   |              | 2.5       | ←                | ←                 | ←                 | ←                 | ←                  | —   |
| Pilot jet                       |              | 50        | ←                | ←                 | 60                | ←                 | ←                  | 3   |
| Air screw                       |              | 1.50      | ←                | 1.25              | 1.00              | 0.75              | ←                  | 3   |
| Valve seat                      |              | 1.5       | ←                | ←                 | ←                 | ←                 | ←                  | 3   |
| Needle jet                      |              | P-O (286) | ←                | ←                 | ←                 | ←                 | ←                  | 3   |
| Starter jet                     |              | 1.60      | ←                | ←                 | ←                 | ←                 | ←                  | —   |
| Float level                     | mm           | 18.1      | ←                | ←                 | ←                 | ←                 | ←                  | —   |
| Idle                            | RPM<br>± 200 | 1900      | ←                | ←                 | ←                 | ←                 | ←                  | —   |
| Idle throttle<br>valve position | mm           | 1.20      | 1.40             | 1.60              | 180               | 2.00              | ←                  | —   |

### MAIN JET CHART

| Altitude         |  | Sea Level  | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty      |
|------------------|--|------------|------------------|-------------------|-------------------|-------------------|--------------------|----------|
| Temperature      |  |            |                  |                   |                   |                   |                    |          |
| - 40°C<br>- 40°F |  | 350        | 320              | 300               | 270               | 240               | 210                | 3        |
| - 30°C<br>- 20°F |  | 340        | 310              | 290               | 260               | 230               | 205                | 3        |
| - 20°C<br>- 4°F  |  | <b>330</b> | <b>300</b>       | <b>280</b>        | <b>250</b>        | <b>220</b>        | <b>200</b>         | <b>3</b> |
| - 10°C<br>14°F   |  | 320        | 290              | 270               | 240               | 220               | 190                | 3        |
| 0°C<br>32°F      |  | 310        | 290              | 260               | 240               | 210               | 190                | 3        |
| 10°C<br>50°F     |  | 300        | 280              | 250               | 230               | 210               | 180                | 3        |
| 20°C<br>70°F     |  | 290        | 270              | 240               | 220               | 200               | 180                | 3        |

NOTE: Arrows in the charts indicate that the preceding information is repeated.

# 1997-MACH 1

## HIGH ALTITUDE KIT (P/N 861 7561 00)

### DRIVE PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>          | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> | <b>Qty</b> |
|-------------------------------------|---------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|------------|
| Spring                              | Pink/White<br>414 9914 00 | ←                              | Green/Violet<br>414 7628 00     | ←                               | ←                               | ←                                | 1          |
| Ramp                                | 417 0052 86               | ←                              | 417 0052 85                     | ←                               | ←                               | ←                                | 3          |
| Calibration screw position          | 4                         | 5                              | 2                               | 3                               | 4                               | 5                                | —          |
| Pin                                 | 417 0043 04               | ←                              | 417 0043 03                     | ←                               | ←                               | ←                                | 3          |
| Engagement RPM ± 100                | 4500                      | ←                              | 4800                            | ←                               | ←                               | ←                                | —          |
| Maximum RPM ± 100                   | 8500                      | ←                              | ←                               | ←                               | ←                               | ←                                | —          |

### DRIVEN PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>     | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2000 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|----------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | Beige<br>414 5589 00 | ←                              | ←                               | ←                               | ←                               | ←                                |
| Spring tension                      | Kg ± 0.7<br>lb ± 1.5 | 7.0<br>15.4                    | ←                               | ←                               | ←                               | ←                                |
| Cam angle                           | °<br>(degrees)       | 47-50                          | ←                               | ←                               | ←                               | ←                                |

### CHAINCASE and DRIVE AXLE

| <b>Altitude</b><br><b>Gearing</b> | <b>Sea Level</b> | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-----------------------------------|------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Top sprocket                      | 26               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Bottom sprocket                   | 44               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Chain, quantity of links          | 74               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Drive sprocket, quantity of teeth | 9                | —                              | —                               | —                               | —                               | —                                |

**NOTE:** Arrows in the charts indicate that the preceding information is repeated.

### Additional Information

Unscrew Rave Valve covers approximately three (3) turns.



CAUTION

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

CARBURETION

| Altitude<br>Calibration         |              | Sea Level | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty |
|---------------------------------|--------------|-----------|------------------|-------------------|-------------------|-------------------|--------------------|-----|
| Main jet                        |              | 350       | 310              | 270               | 230               | 190               | 150                | 3   |
| Jet needle                      |              | 6DEY2     | ←                | ←                 | ←                 | ←                 | ←                  | 3   |
| Needle position                 |              | 4         | ←                | ←                 | 3                 | ←                 | ←                  | —   |
| Slide cutaway                   |              | 2.5       | ←                | ←                 | ←                 | ←                 | ←                  | 3   |
| Pilot jet                       |              | 50        | ←                | ←                 | 65                | ←                 | ←                  | 3   |
| Air screw                       |              | 2.25      | ←                | ←                 | ←                 | ←                 | ←                  | —   |
| Valve seat                      |              | 1.5       | ←                | ←                 | ←                 | ←                 | ←                  | 3   |
| Needle jet                      |              | P-7 (480) | ←                | ←                 | P-5 (480)         | ←                 | ←                  | 3   |
| Float level                     | mm           | 18.1      | ←                | ←                 | ←                 | ←                 | ←                  | —   |
| Idle                            | RPM<br>± 200 | 1800      | ←                | ←                 | ←                 | ←                 | ←                  | —   |
| Idle throttle<br>valve position | mm           | 1.40      | 1.50             | 1.70              | 1.80              | 1.90              | 2.00               | —   |

MAIN JET CHART

| Altitude<br>Temperature |  | Sea Level | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty |
|-------------------------|--|-----------|------------------|-------------------|-------------------|-------------------|--------------------|-----|
| – 40°C<br>– 40°F        |  | 370       | 330              | 290               | 250               | 210               | 170                | 3   |
| – 30°C<br>– 20°F        |  | 360       | 320              | 280               | 240               | 200               | 160                | 3   |
| – 20°C<br>– 4°F         |  | 350       | 310              | 270               | 230               | 190               | 150                | 3   |
| – 10°C<br>14°F          |  | 340       | 300              | 260               | 220               | 180               | 140                | 3   |
| 0°C<br>32°F             |  | 330       | 290              | 250               | 210               | 170               | 130                | 3   |
| 10°C<br>50°F            |  | 320       | 280              | 240               | 200               | 160               | 120                | 3   |
| 20°C<br>70°F            |  | 310       | 270              | 230               | 190               | 150               | 110                | 3   |

NOTE: Arrows in the charts indicate that the preceding information is repeated.

# 1997-MACH Z LT

## HIGH ALTITUDE KIT (P/N 861 7560 00)

### DRIVE PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>          | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> | <b>Qty</b> |
|-------------------------------------|---------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|------------|
| Spring                              | Green/Blue<br>414 7682 00 | ←                              | ←                               | ←                               | ←                               | ←                                | 1          |
| Ramp                                | 417 0052 86               | ←                              | ←                               | ←                               | ←                               | ←                                | 3          |
| Calibration screw position          | 3                         | 4                              | 3                               | 4                               | 5                               | 6                                | —          |
| Pin                                 | 417 0043 04               | ←                              | 417 0043 03                     | ←                               | ←                               | ←                                | 3          |
| Engagement RPM $\pm$ 100            | 4100                      | ←                              | 4500                            | ←                               | ←                               | ←                                | —          |
| Maximum RPM $\pm$ 100               | 8300                      | ←                              | ←                               | ←                               | ←                               | ←                                | —          |

### DRIVEN PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>             | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2000 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|------------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | Beige                        | ←                              | ←                               | ←                               | ←                               | ←                                |
| Spring tension                      | Kg $\pm$ 0.7<br>lb $\pm$ 1.5 | 7.0<br>15.4                    | ←                               | ←                               | ←                               | ←                                |
| Cam angle                           | °<br>(degrees)               | 47-50                          | ←                               | ←                               | ←                               | ←                                |

### CHAINCASE and DRIVE AXLE

| <b>Altitude</b><br><b>Gearing</b> | <b>Sea Level</b> | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-----------------------------------|------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Top sprocket                      | 26               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Bottom sprocket                   | 44               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Chain, quantity of links          | 74               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Drive sprocket, quantity of teeth | 9                | —                              | —                               | —                               | —                               | —                                |

**NOTE:** Arrows in the charts indicate that the preceding information is repeated.

# 1997-MACH Z LT



## CAUTION

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

### CARBURETION

| Altitude                        |              | Sea Level | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty |
|---------------------------------|--------------|-----------|------------------|-------------------|-------------------|-------------------|--------------------|-----|
| Calibration                     |              |           |                  |                   |                   |                   |                    |     |
| Main jet                        |              | 380       | 350              | 320               | 290               | 260               | 230                | 3   |
| Jet needle                      |              | 8 AGY1-41 | ←                | ←                 | ←                 | ←                 | ←                  | 3   |
| Needle position                 |              | 3         | ←                | 2                 | ←                 | ←                 | 1                  | —   |
| Slide cutaway                   |              | 2.0       | ←                | ←                 | ←                 | ←                 | ←                  | 3   |
| Pilot jet                       |              | 50        | ←                | ←                 | 60                | ←                 | ←                  | 3   |
| Air screw                       |              | 4.00      | 3.50             | 3.00              | ←                 | 2.50              | 2.00               | 3   |
| Valve seat                      |              | 1.5       | ←                | ←                 | ←                 | ←                 | ←                  | 3   |
| Needle jet                      |              | O-4 (327) | ←                | ←                 | ←                 | ←                 | ←                  | 3   |
| Float level                     | mm           | 20        | ←                | ←                 | ←                 | ←                 | ←                  | —   |
| Idle                            | RPM<br>± 200 | 1800      | ←                | ←                 | ←                 | ←                 | ←                  | —   |
| Idle throttle<br>valve position | mm           | 1.30      | 1.40             | 1.60              | 1.80              | 2.00              | 2.20               | —   |

### MAIN JET CHART

| Altitude         |  | Sea Level | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty |
|------------------|--|-----------|------------------|-------------------|-------------------|-------------------|--------------------|-----|
| Temperature      |  |           |                  |                   |                   |                   |                    |     |
| - 40°C<br>- 40°F |  | 400       | 370              | 340               | 300               | 270               | 240                | 3   |
| - 30°C<br>- 20°F |  | 390       | 360              | 330               | 300               | 270               | 240                | 3   |
| - 20°C<br>- 4°F  |  | 380       | 350              | 320               | 290               | 260               | 230                | 3   |
| - 10°C<br>14°F   |  | 370       | 340              | 310               | 280               | 250               | 220                | 3   |
| 0°C<br>32°F      |  | 360       | 330              | 300               | 270               | 250               | 220                | 3   |
| 10°C<br>50°F     |  | 350       | 320              | 290               | 260               | 240               | 210                | 3   |
| 20°C<br>70°F     |  | 340       | 310              | 290               | 260               | 230               | 200                | 3   |

NOTE: Arrows in the charts indicate that the preceding information is repeated.

### Additional Information

At 2400 m, restriction ring (P/N 514 0967 00), Qty 3 must be installed.

# 1997-MACH Z

## HIGH ALTITUDE KIT (P/N 861 7559 00)

### DRIVE PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>          | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> | <b>Qty</b> |
|-------------------------------------|---------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|------------|
| Spring                              | Green/Blue<br>414 7682 00 | ←                              | ←                               | ←                               | ←                               | ←                                | 1          |
| Ramp                                | 417 0052 86               | ←                              | ←                               | ←                               | ←                               | ←                                | 3          |
| Calibration screw position          | 3                         | 4                              | 3                               | 4                               | 5                               | 6                                | —          |
| Pin                                 | 417 0043 04               | ←                              | 417 0043 03                     | ←                               | ←                               | ←                                | 3          |
| Engagement RPM ± 100                | 4100                      | ←                              | 4500                            | ←                               | ←                               | ←                                | —          |
| Maximum RPM ± 100                   | 8300                      | ←                              | ←                               | ←                               | ←                               | ←                                | —          |

### DRIVEN PULLEY

| <b>Altitude</b><br><b>Clutching</b> | <b>Sea Level</b>     | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2000 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-------------------------------------|----------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Spring                              | Beige                | ←                              | ←                               | ←                               | ←                               | ←                                |
| Spring tension                      | Kg ± 0.7<br>lb ± 1.5 | 7.0<br>15.4                    | ←                               | ←                               | ←                               | ←                                |
| Cam angle                           | °<br>(degrees)       | 47-50                          | ←                               | ←                               | ←                               | ←                                |

### CHAINCASE and DRIVE AXLE

| <b>Altitude</b><br><b>Gearing</b> | <b>Sea Level</b> | <b>600 m</b><br><b>2000 ft</b> | <b>1200 m</b><br><b>4000 ft</b> | <b>1800 m</b><br><b>6000 ft</b> | <b>2400 m</b><br><b>8000 ft</b> | <b>3000 m</b><br><b>10000 ft</b> |
|-----------------------------------|------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Top sprocket                      | 26               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Bottom sprocket                   | 44               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Chain, quantity of links          | 74               | ←                              | ←                               | ←                               | ←                               | ←                                |
| Drive sprocket, quantity of teeth | 9                | —                              | —                               | —                               | —                               | —                                |

**NOTE:** Arrows in the charts indicate that the preceding information is repeated.



CAUTION

These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

CARBURETION

| Altitude                        |              | Sea Level | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty |
|---------------------------------|--------------|-----------|------------------|-------------------|-------------------|-------------------|--------------------|-----|
| Calibration                     |              |           |                  |                   |                   |                   |                    |     |
| Main jet                        |              | 380       | 350              | 320               | 290               | 260               | 230                | 3   |
| Jet needle                      |              | 8 AGY1-41 | ←                | ←                 | ←                 | ←                 | ←                  | 3   |
| Needle position                 |              | 3         | ←                | 2                 | ←                 | ←                 | 1                  | —   |
| Slide cutaway                   |              | 2.0       | ←                | ←                 | ←                 | ←                 | ←                  | 3   |
| Pilot jet                       |              | 50        | ←                | ←                 | 60                | ←                 | ←                  | 3   |
| Air screw                       |              | 4.00      | 3.50             | 3.00              | ←                 | 2.50              | 2.00               | 3   |
| Valve seat                      |              | 1.5       | ←                | ←                 | ←                 | ←                 | ←                  | 3   |
| Needle jet                      |              | O-4 (327) | ←                | ←                 | ←                 | ←                 | ←                  | 3   |
| Float level                     | mm           | 20        | ←                | ←                 | ←                 | ←                 | ←                  | —   |
| Idle                            | RPM<br>± 200 | 1800      | ←                | ←                 | ←                 | ←                 | ←                  | —   |
| Idle throttle<br>valve position | mm           | 1.30      | 1.40             | 1.60              | 1.80              | 2.00              | 2.20               | —   |

MAIN JET CHART

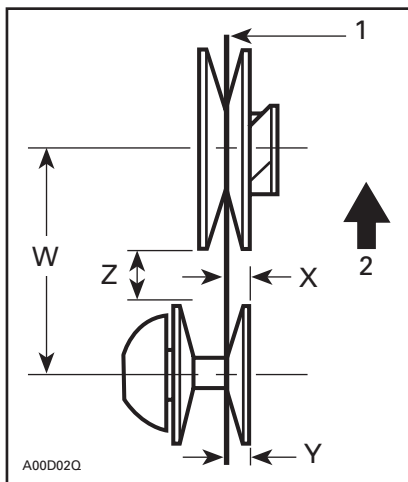
| Altitude         |  | Sea Level | 600 m<br>2000 ft | 1200 m<br>4000 ft | 1800 m<br>6000 ft | 2400 m<br>8000 ft | 3000 m<br>10000 ft | Qty |
|------------------|--|-----------|------------------|-------------------|-------------------|-------------------|--------------------|-----|
| Temperature      |  |           |                  |                   |                   |                   |                    |     |
| – 40°C<br>– 40°F |  | 400       | 370              | 340               | 300               | 270               | 240                | 3   |
| – 30°C<br>– 20°F |  | 390       | 360              | 330               | 300               | 270               | 240                | 3   |
| – 20°C<br>– 4°F  |  | 380       | 350              | 320               | 290               | 260               | 230                | 3   |
| – 10°C<br>14°F   |  | 370       | 340              | 310               | 280               | 250               | 220                | 3   |
| 0°C<br>32°F      |  | 360       | 330              | 300               | 270               | 250               | 220                | 3   |
| 10°C<br>50°F     |  | 350       | 320              | 290               | 260               | 240               | 210                | 3   |
| 20°C<br>70°F     |  | 340       | 310              | 290               | 260               | 230               | 200                | 3   |

NOTE: Arrows in the charts indicate that the preceding information is repeated.

# ANNEXE A

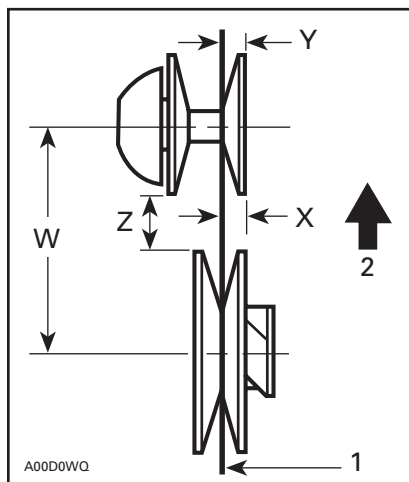
## PULLEY ALIGNMENT — 1994 MODELS (as an example)

### ÉLAN AND ALPINE II



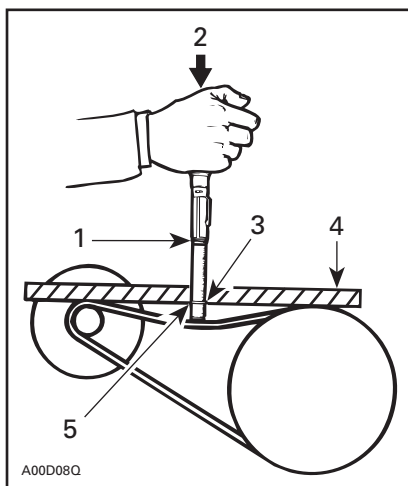
1. Straight bar
2. Front

### ALL OTHERS



1. Straight bar
2. Front

## DRIVE BELT DEFLECTION MEASUREMENT



BELT TENSION TESTER (P/N 414 3482 00)

1. Upper O-ring
2. Force
3. Deflection
4. Reference rule
5. Lower O-ring

# 1994 (AS AN EXAMPLE)

| MODEL                                                            | W                  | X                             | Y – X                        | Z                            | BELT DEFLECTION           |             | BELT HEIGHT<br>OVER DRIVEN<br>PULLEY | DRIVEN<br>PULLEY AXIAL<br>FREE PLAY |
|------------------------------------------------------------------|--------------------|-------------------------------|------------------------------|------------------------------|---------------------------|-------------|--------------------------------------|-------------------------------------|
|                                                                  | mm<br>(in)         | mm<br>(in)                    | mm<br>(in)                   | +0, –1 mm<br>(+0, –0.040 in) | mm<br>(in)                | kg<br>(lb)  | mm<br>(in)                           | mm<br>(in)                          |
| Élan                                                             | 268<br>(10-9/16)   | 32.8 ± 0.4<br>(1-9/16 ± 1/64) | 0 ± 0.75<br>(0 ± 1/32)       | 40<br>(1-3/32)               | 33 ± 3<br>(1-5/16 ± 1/8)  | 5<br>(11)   | N/A                                  | N/A                                 |
| Alpine II                                                        | 284<br>(11-3/16)   | 36.0 ± 0.4<br>(1-7/16 ± 1/64) | 1.12 ± 0.38<br>(3/64 ± 1/64) | 43<br>(1-11/16)              | 32 ± 5<br>(1-1/32 ± 3/16) | 6.8<br>(15) | N/A                                  | N/A                                 |
| All Tundra                                                       | 269.5<br>(10-5/8)  | 36.0 ± 0.4<br>(1-7/16 ± 1/64) | 0.75 ± 0.75<br>(1/32 ± 1/32) | 36.5<br>(1-7/16)             | 32 ± 5<br>(1-1/32 ± 3/16) | 6.8<br>(15) | N/A                                  | N/A                                 |
| All Skandic<br>and Safari                                        | 268.3<br>(10-9/16) | 37.0 ± 0.4<br>(1-7/16 ± 1/64) | 0.75 ± 0.75<br>(1/32 ± 1/32) | 27.0<br>(1-1/16)             | 32 ± 5<br>(1-1/32 ± 3/16) | 6.8<br>(15) | 0.75 ± 0.75<br>(1/32 ± 1/32)         | N/A                                 |
| Mach 1 and<br>All Grand Touring                                  | 268.3<br>(10-9/16) | 36.0 ± 0.5<br>(1-7/16 ± 1/64) | 1.5 ± 0.5<br>(1/16 ± 1/64)   | 27.0<br>(1-1/16)             | 32 ± 5<br>(1-1/32 ± 3/16) | 6.8<br>(15) | 0.75 ± 0.75<br>(1/32 ± 1/32)         | 2.5 ± 0.5<br>(3/32 ± 1/64)          |
| Formula Z, ST,<br>STX, MX, MX Z,<br>Summit 470<br>and Summit 583 | 257.5<br>(10-1/8)  | 35.0 ± 0.5<br>(1-3/8 ± 1/64)  | 1.5 ± 0.5<br>(1/16 ± 1/64)   | 16.5<br>(21/32)              | 32 ± 5<br>(1-1/32 ± 3/16) | 6.8<br>(15) | 0.75 ± 0.75<br>(1/32 ± 1/32)         | 0.5 ± 0.5<br>(1/64 ± 1/64)          |
| Mach Z and<br>Summit 670                                         | 257.5<br>(10-1/8)  | 35.0 ± 0.5<br>(1-3/8 ± 1/64)  | 1.5 ± 0.5<br>(1/16 ± 1/64)   | 16.5<br>(21/32)              | 32 ± 5<br>(1-1/32 ± 3/16) | 6.8<br>(15) | 2.25 ± 0.75<br>(3/32 ± 1/32)         | 0.5 ± 0.5<br>(1/64 ± 1/64)          |

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