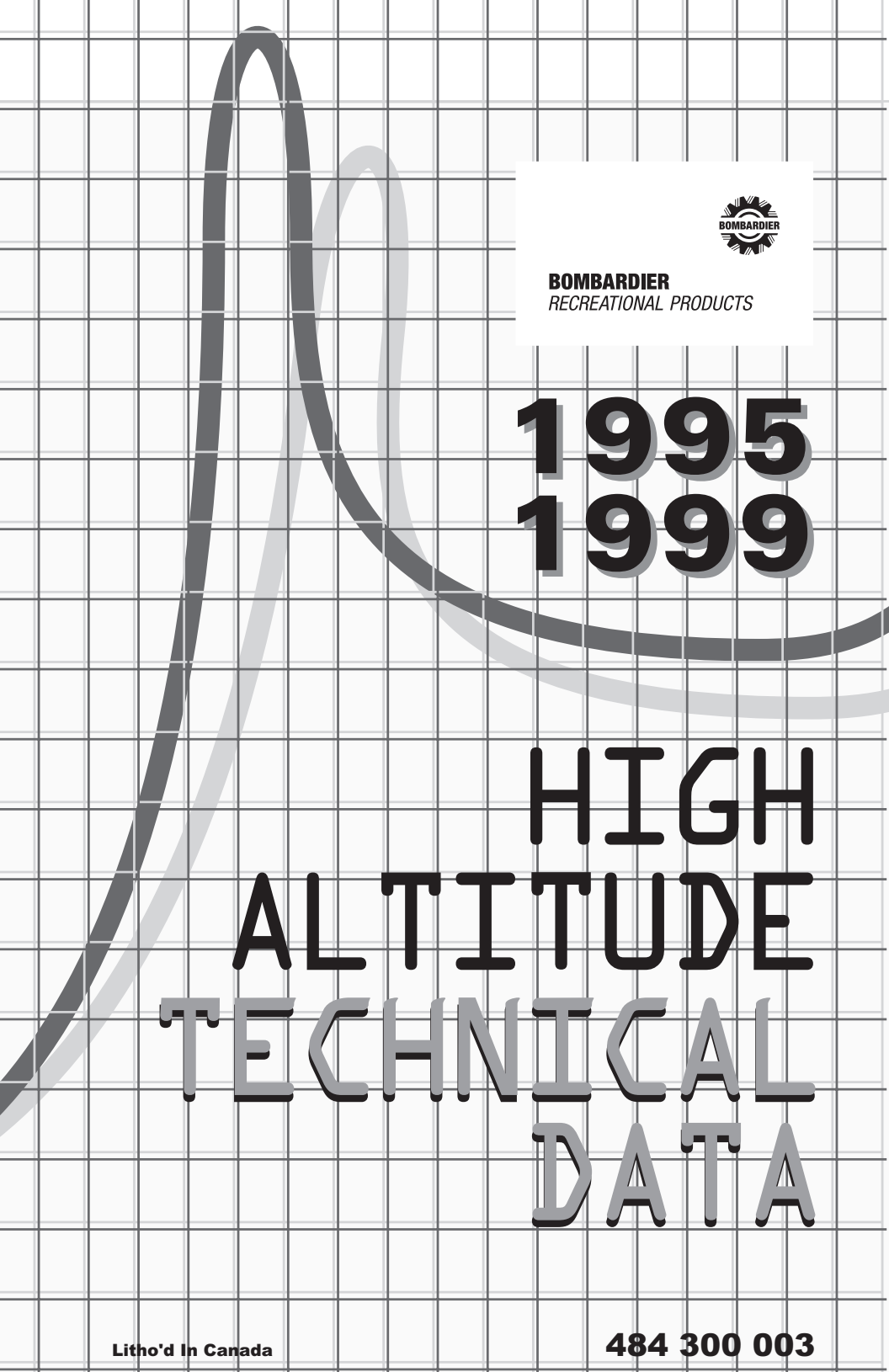


BOMBARDIER
RECREATIONAL PRODUCTS

1995
1999

HIGH ALTITUDE TECHNICAL DATA

Litho'd In Canada

484 300 003

High altitude and Sea level technical data

1995-99

TABLE OF CONTENTS

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 breathes 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 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 ft.

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 higher 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 appeal of the mountains is to be able to ride a 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 - 4°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, the atmospheric pressure is lower at high altitude then sea level. The Summit family is designed and already calibrated for high altitude. For customers who want to use their 1999 and 1995 Summits at or below 6000 ft (1800 m), we offer sea level data sheets and kits; 1996, 1997 and 1998 Summits do not require kits.

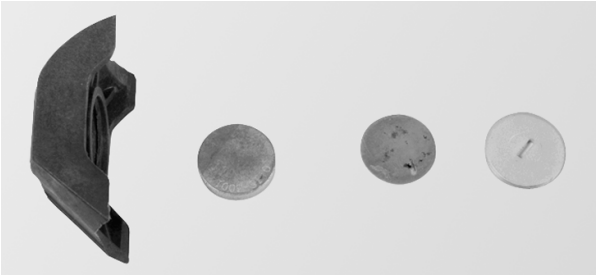
The Summits are equipped with a HAC system (High Altitude Compensator) that provides carburetor system adjustments for all altitudes. However on Summit models, to obtain complete sea level calibration, the drive pulley return spring has to be changed in the transmission system.

The 1999 and 1995 sea level sections are following the high altitude sections.

BOMBARDIER LITE DRIVE PULLEY

CALIBRATION PARTS

BOMBARDIER LITE CLUTCH



A03D2JQ

BOMBARDIER NO.	COLOR	SPRING PRESSURE N @ 62 mm (lbf @ 2.44 in) N (lbf)	SPRING PRESSURE N @ 40 mm (lbf @ 1.57 in) N (lbf)	SPRING RATE N/mm (lbf/in)	FREE LENGTH mm (in)
417 115 600	Blue	255 (57)	507 (114)	11.45 (65.4)	86 (3.39)
417 115 900	Turquoise	258 (58)	605 (136)	13.36 (76.3)	85 (3.35)
417 118 400	Red/Blue on Violet	564 (127)	951 (214)	17.60 (100.5)	102 (4.02)
417 118 500	Yellow/Green on Violet	392 (88)	888 (199)	22.5 (128.5)	82 (3.23)

CENTRIFUGAL BLOCKS

PART NUMBER	DESCRIPTION	WEIGHT (grams)
417 115 700	Red (push type)	38
417 118 100	Black (screw type)	39.6
417 114 300	Red (screw type)	41.8

CALIBRATION WEIGHTS

PART NUMBER	DESCRIPTION	WEIGHT (grams)
417 114 400	Screw type	3.4
417 120 400	Screw type	21
417 115 800	Push type	1.8
417 114 500	Capsule screw type	1.65

DRIVE PULLEY SPRINGS

THE FOLLOWING REFERENCES ARE USED IN CHARTS:

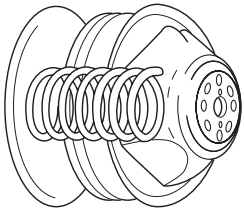
(1) Length of spring when installed in clutch and clutch in fully "open" position.

(2) Length of spring in clutch when clutch is fully "closed".

(3) Pounds of force per inch of spring compression.

TRA & TRA Light CLUTCH SPRINGS

- 1 -



A01D11Q

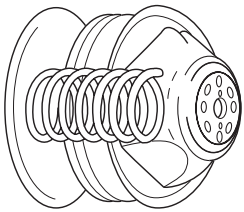
BOMBARDIER NO.	COLOR	SPRING PRESSURE N @ 74 mm (lbf @ 2.9 in) (1)	SPRING PRESSURE N @ 41 mm (lbf @ 1.6 in) (2)	SPRING RATE N/mm (lbf/in) (3)	FREE LENGTH mm (in)
414 639 000	BL - OR	580 (130)	890 (200)	9.4 (53.6)	135.5 (5.33)
414 605 600	WH	667 (150)	1077 (242)	12.1 (68.9)	128.7 (5.07)
414 689 700	YL - OR	455 (102)	890 (200)	13.2 (75.2)	105.7 (4.16)
414 689 500	BL - YL	580 (130)	102.5 (230)	13.5 (76.8)	115.1 (4.53)
414 605 500	YL	455 (102)	1200 (270)	14.8 (84.2)	122 (4.80)
414 748 600	YL - YL	454 (102)	1024 (229.5)	17.3 (98.6)	100.3 (3.95)
414 817 700	BL - GN	579 (130)	1157 (260)	17.5 (99.9)	105.7 (4.16)
414 742 100	YL - GN	455 (102)	1157 (260)	21.3 (121.2)	94 (3.7)
414 817 500	RD - YL	318 (71.3)	1024 (229.5)	21.4 (121.7)	87.9 (3.46)
414 689 400	BL - BL	580 (130)	1290 (290)	21.5 (122.6)	99.8 (3.93)
414 817 900	VI - VI	712 (160)	1420 (319)	21.6 (122.7)	105.7 (4.16)

BL: Blue GN: Green OR: Orange PI: Pink RD: Red
VI: Violet WH: White YL: Yellow

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

TRA & TRA Light CLUTCH SPRINGS

- 2 -



A01D11Q

BOMBARDIER NO.	COLOR (1)	SPRING PRESSURE N @ 74 mm (lbf @ 2.9 in) (2)	SPRING PRESSURE N @ 41 mm (lbf @ 1.6 in) (3)	SPRING RATE N/mm (lbf/in)	FREE LENGTH mm (in)
414 818 000	YL - BL	454 (101.7)	1290 (289.1)	25.3 (144.5)	91.0 (3.58)
414 689 200	RD - GN	320 (72)	1157 (260)	25.4 (144.6)	85.9 (3.38)
414 701 000	RD - VI	320 (72)	1420 (320)	33.52 (140.7)	83 (3.27)
414 768 200	GN - BL ①	750 (162)	1290 (290)	12.12 (68.9)	144.3 (5.68)
414 817 800	BL - VI	580 (130)	1420 (320)	25.61 (145.7)	96.6 (3.80)
414 754 200	PI - VI ②	1025 (230)	1425 (320)	12.15 (68.9)	154.7 (6.09)
414 762 800	GN - VI ③	667 (160)	1425 (320)	16.21 (92.2)	126.7 (4.99)
414 756 900	GN - PI ④	667 (160)	1650 (350)	20.21 (115)	116.1 (4.57)
414 916 300	BL - PI ⑤	580 (130)	1650 (350)	29.65 (169.3)	93.5 (3.68)
414 993 000	YL - RD	445 (100)	756 (170)	9.42 (54)	121.1 (4.77)
414 991 400	PI - WH	1023 (230)	1690 (380)	20.2 (115.5)	124.5 (4.90)

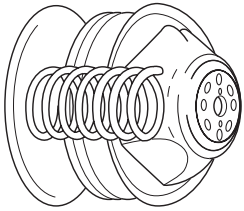
BL: Blue GN: Green OR: Orange PI: Pink RD: Red
VI: Violet WH: White YL: Yellow

① Formerly Pink - Green
② Formerly Yellow - Red
③ Formerly Green - Yellow
④ Formerly Green
⑤ Formerly Blue

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

TRA & TRA Light CLUTCH SPRINGS

- 3 -



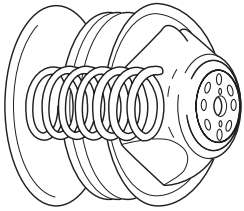
A01D11Q

BOMBARDIER NO.	COLOR (1)	SPRING PRESSURE N @ 74 mm (lbf @ 2.9 in) (2)	SPRING PRESSURE N @ 41 mm (lbf @ 1.6 in) (3)	SPRING RATE N/mm (lbf/in)	FREE LENGTH mm (in)
415 034 900	VI - BL	712 (160)	1290 (290)	17.52 (100)	114.6 (4.512)
415 015 400	VI - GN	712 (160)	1157 (260)	13.48 (76.97)	133.5 (5.256)
414 689 800	RD - RD	320 (72)	770 (173)	13.76 (78.57)	96.3 (3.79)
414 691 500	RD - BL	320 (72)	1290 (290)	29.45 (168.16)	84.1 (3.31)
415 015 300	VI - YL	712 (160)	1023 (230)	9.42 (53.78)	157.9 (6.217)
415 015 200	RD - OR	311 (70)	890 (200)	17.55 (100.21)	91.2 (3.591)
414 678 400	YL - VI	445 (100)	1424 (320)	29.64 (169.2)	88.99 (3.503)
414 949 500	VI - PI	712 (160)	1557 (350)	25.62 (146.29)	101.8 (4.007)
415 074 800	PI - PI	1023 (230)	1557 (350)	16.18 (92.39)	137.2 (5.401)
417 222 004	WH - WH	1112 (250)	1690 (380)	17.53 (100)	137.44 (5.411)
417 222 164	WH - SI	1157 (260)	1868 (420)	21.56 (123.11)	127.6 (5.024)

BL: Blue GN: Green OR: Orange PI: Pink RD: Red SI: Silver
VI: Violet WH: White YL: Yellow

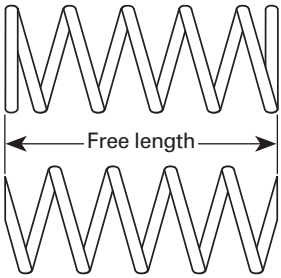
NOTE: TRA clutch springs **cannot** be used in other drive pulleys.

IDENTIFICATION CHARTS



A01D11Q

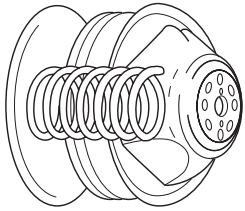
Type "A"



Type "B"

A01D12Q

ROUND SHAFT CLUTCH SPRING

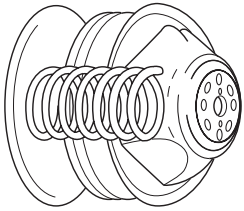


A01D11Q

BOMBARDIER NO.	COLOR	SPRING PRESSURE lbf @ 2.0 in (1)	SPRING PRESSURE lbf @1.25 in (2)	SPRING RATE lbf/in (3)	FREE LENGTH in	TYPE
414 258 000	Bronze	41	66	34	3.20	A
414 442 200 ①	Black	75	101	35	4.13	B

① Spring seat differs from original

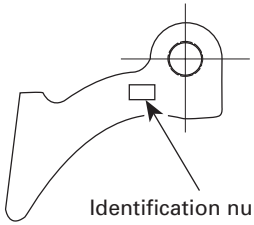
SQUARE SHAFT CLUTCH SPRINGS



A01D11Q

BOMBARDIER NO.	COLOR	SPRING PRESSURE lbf @ 2.5 in (1)	SPRING PRESSURE lbf @ 1.25 in (2)	SPRING RATE lbf/in (3)	FREE LENGTH in	TYPE
414 196 700	Light Blue	86	135	39	4.69	A
414 406 500	Orange	96	196	80	3.80	A
414 350 800	Pink	130	239	87	4.00	A
414 232 800	Gold	41.5	164	98	2.93	A
414 261 000	Purple	44.5	184.5	112	2.90	A
414 478 400	Black	62	203	112	3.06	A
414 577 200	Light Blue	59.5	N.A.	93	3.14	A
414 232 900	Orange	57	N.A.	87	3.19	A
414 199 500	Yellow	89	N.A.	62	3.94	A
414 196 600	Pink	60	N.A.	26	4.81	A

TRA CLUTCH RAMPS



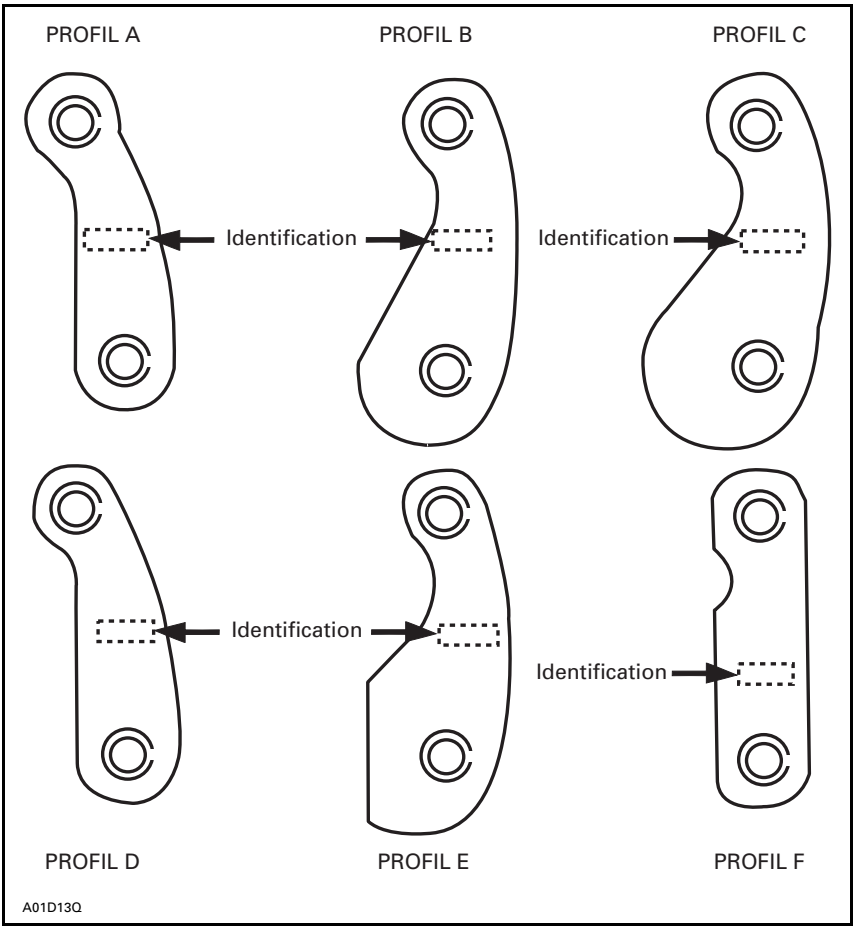
A01D18Q

PART NUMBER	IDENTIFICATION
414 754 300	PX
414 796 000	DX
415 023 800	CF1
417 005 140	140
417 005 143	143
417 005 146	146
417 005 221	221
417 005 223	223
417 005 227	227
417 005 228	228
417 005 280	280
417 005 281	281
417 005 284	284
417 005 285	285
417 005 286	286
417 005 287	287
417 005 289	289
417 005 290	290
417 005 291	291
417 005 291X	291X
417 005 292	292
417 005 292X	292X
417 005 293	293
417 005 293X	293X

PART NUMBER	IDENTIFICATION
417 005 294	294
417 005 294X	294X
417 005 295X	295X
417 005 296X	296X
417 005 297X	297X
417 222 090	295
417 222 089	296
417 222 123	297
420 480 142	142
420 480 144	144
420 480 145	145
420 480 146	146
420 480 149	149
420 480 221	221
420 480 221	223 or 226
420 480 226	226
420 480 227	227
420 480 228	228
420 480 280	280
420 480 281	281
420 480 283	283
504 069 900	0699
504 096 400	FZ
504 259 400	DA9

DRIVE PULLEY PRESSURE LEVER IDENTIFICATION

- 1-



DRIVE PULLEY PRESSURE LEVER IDENTIFICATION

- 2-

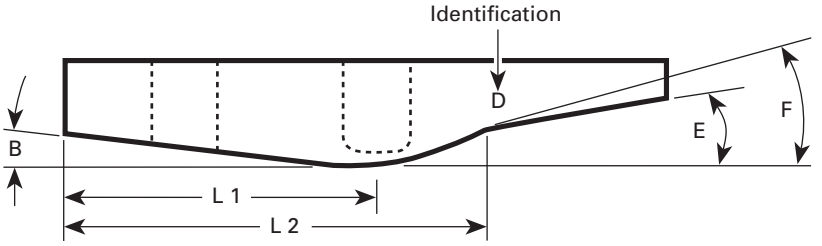
PROFIL	IDENTIFICATION	WEIGHT (g)
A	A-2-S	21.70
A	A-3-S	23.80
A	A-3-S-H	22.10
A	A-4-S	26.16
A	A-5-S	27.05
A	A-6-S	32.30
A	A-8-S	38.45
B	B-1-K-S	24.30
B	B-2-K-S	26.00
B	B-2-K-S-H	26.00
B	B-3-K-S-H	28.30
C	C-3-L-S	33.75
C	C-4-L	36.85
C	C-4-L-S	36.85
C	C-4-L-S-H	34.95

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 391 302 200

Small calibration washers (3 ramp models) P/N 391 302 100

DRIVE PULLEY RAMP IDENTIFICATION
- 1-

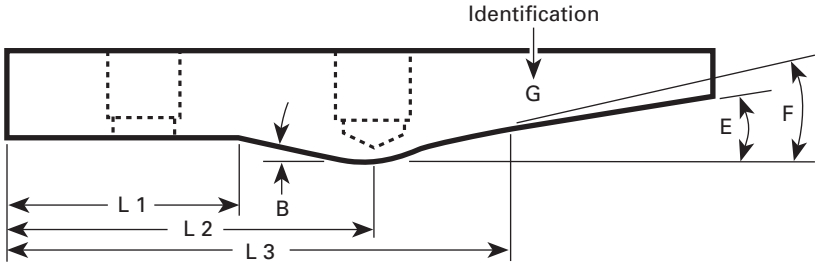


A01D14Q

RAMP NO.	ANGLE B	ANGLE E	ANGLE F	L1	L2	IDENTIFICATION
				mm (in)		
504 248 800	5°	15°	18°	31.12 (1.225)	40.64 (1.600)	**D**

DRIVE PULLEY RAMP IDENTIFICATION

-2-

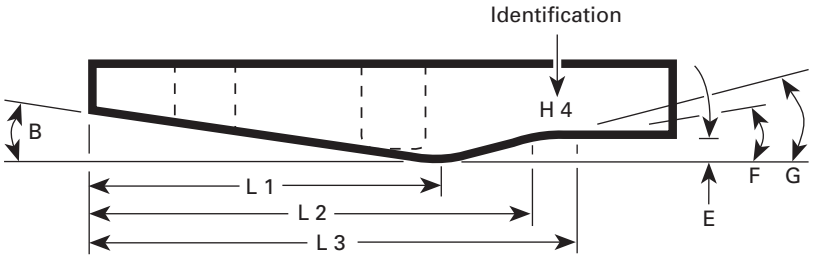


A01D15Q

RAMP NO.	ANGLE B	ANGLE E	ANGLE F	L1	L2	L3	IDENTIFICATION
				mm (in)			
504 250 300	8°	12°	14°	19.00 (.748)	30.50 (1.201)	44.45 (1.750)	**G**
504 254 200	8°	11°	14°	19.00 (.748)	30.50 (1.201)	43.00 (1.693)	**S1**

DRIVE PULLEY RAMP IDENTIFICATION

-3-

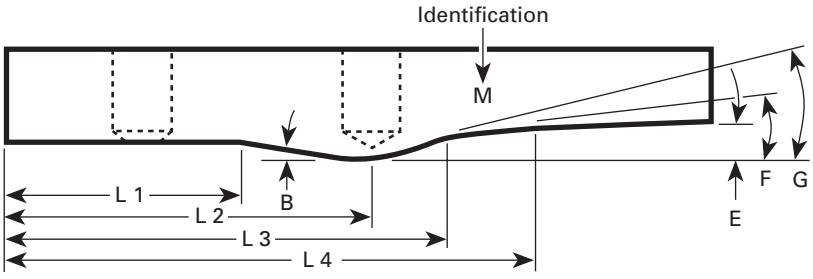


A01D16Q

RAMP NO.	ANGLE B	ANGLE E	ANGLE F	ANGLE G	L1	L2	L3	IDENTIFICATION
					mm (in)			
504 255 200	11.5°	7°	8°	9°	29.50 (1.161)	39.90 (1.571)	42.90 (1.689)	**H4**

DRIVE PULLEY RAMP IDENTIFICATION

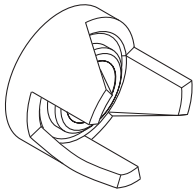
-4-



A01D17Q

RAMP NO.	ANGLE B	ANGLE E	ANGLE F	ANGLE G	L1	L2	L3	L4	IDENTIFICATION
					mm (in)				
504 057 400	8°	8°	10°	13°	19.00 (.748)	30.50 (1.201)	35.50 (1.398)	44.25 (1.742)	**M**

DRIVEN PULLEY CAMS



A01D19Q

PART NUMBER	NOTE	CAM ANGLE
504 135 500	2	36°
504 087 400	4	37.8°
504 138 000	4	37.8°
504 092 100	3	40°
504 137 400	2	40°
504 096 000	3	44°
504 134 800	2	44°
504 128 200	1	44°
504 136 300	2	50°
504 140 100	3	50°
504 096 100	3	50°
504 139 000	2	53°
504 140 900	3	47°

NOTE: 1 - 87.8 mm dia./6.35 mm (.250 in) keyway
2 - 87.8 mm dia./8 mm (.315 in) keyway
3 - 88.9 mm dia./8 mm (.315 in) keyway extended center sleeve
4 - Movable sleeve

SPROCKET IDENTIFICATION CHART

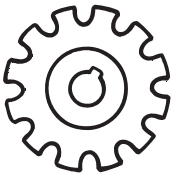
- 1 -

A01D1AQ

PART NO.	TEETH	TYPE	SHAFT (in)	SPLINES	PITCH (in)
504 000 800	10	Single	3/4	**8**	1/2
504 001 300	25	Single	1	**10**	1/2
504 054 100	12	Single	1	**15**	1/2
504 088 500	14	Single	1	**15**	1/2
504 088 600	25	Single	1	**15**	1/2
504 054 300	27	Single	1	**15**	1/2
504 010 200	12	Double	1	**8**	3/8
504 009 100	14	Double	3/4	**8**	3/8
504 004 400	15	Double	3/4	**8**	3/8
504 013 000	33	Double	1	**10**	3/8
504 004 500	34	Double	1	**10**	3/8
504 012 900	35	Double	1	**10**	3/8
504 052 200	37	Double	1	**10**	3/8
504 050 800	38	Double	1	**10**	3/8
504 052 100	39	Double	1	**10**	3/8
504 012 400	15	Double	1	**15**	3/8
504 010 600	16	Double	1	**15**	3/8
504 008 900	17	Double	1-5/16	**15**	3/8
504 044 000	21	Triple	1	**10**	3/8
504 019 300	34	Triple	1	**10**	3/8
504 052 200	37	Triple	1	**10**	3/8
504 028 900	38	Triple	1	**10**	3/8
504 032 100	42	Triple	1	**10**	3/8
420 434 910	17	Triple	1	**15**	3/8
504 064 500	46	Triple	1	**15**	3/8
504 066 700	54	Triple	1	**15**	3/8

SPROCKET IDENTIFICATION CHART

- 2 -

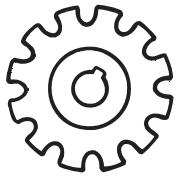


A01D1AQ

PART NO.	TEETH	TYPE	SHAFT (in)	SPLINES	PITCH (in)
504 070 400	16	Silent	1	**15**	3/8
420 434 900	17	Silent	1	**15**	3/8
504 071 800	17	Silent	1	**15**	3/8
504 070 100	18	Silent	1	**15**	3/8
414 680 500	19	Silent	1	**15**	3/8
504 058 800	20	Silent	1	**15**	3/8
504 074 800 (heavy duty)	20	Silent	1	**15**	3/8
504 084 000	21	Silent	1	**15**	3/8
504 091 200	21	Silent	1	**15**	3/8
504 096 200	21	Silent	1	**15**	3/8
504 139 300	21	Silent	1	**15**	3/8
504 056 000	22	Silent	1	**15**	3/8
504 074 700 (heavy duty)	22	Silent	1	**15**	3/8
504 083 500	22	Silent	1	**15**	3/8
504 091 100	22	Silent	1	**15**	3/8
504 078 400	23	Silent	1	**15**	3/8
504 085 400	23	Silent	1	**15**	3/8
504 087 800	23	Silent	1	**15**	3/8
504 091 000	23	Silent	1	**15**	3/8
504 056 100	24	Silent	1	**15**	3/8
504 078 600	24	Silent	1	**15**	3/8
504 090 900	24	Silent	1	**15**	3/8
504 139 700	24	Silent	1	**15**	3/8
504 084 100	25	Silent	1	**15**	3/8
504 084 300	25	Silent	1	**15**	3/8
504 085 200	25	Silent	1	**15**	3/8
504 055 900	26	Silent	1	**15**	3/8
504 085 300	26	Silent	1	**15**	3/8
504 148 400	27	Silent	1	**15**	3/8
504 148 800	27	Silent	1	**15**	3/8
504 148 900	27	Silent	1	**15**	3/8
504 089 000	40	Silent	1	**15**	3/8
504 070 900	44	Silent	1	**15**	3/8
504 084 400	44	Silent	1	**15**	3/8
581 096 800	44	Silent	1	**15**	3/8
504 088 200	44	Silent	1	**15**	3/8

SPROCKET IDENTIFICATION CHART

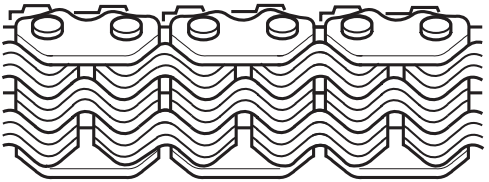
- 3 -



A01D1AQ

PART NO.	TEETH	TYPE	SHAFT (in)	SPLINES	PITCH (in)
504 056 400	38	Silent	1-1/8	**17**	3/8
504 056 200	40	Silent	1-1/8	**17**	3/8
504 057 300	44	Silent	1-1/8	**17**	3/8
504 085 500	44	Silent	1-1/8	**17**	3/8
504 148 500	43	Silent	1-1/8	**17**	3/8
504 148 600	43	Silent	1-1/8	**17**	3/8
504 148 700	43	Silent	1-1/8	**17**	3/8
414 652 600	44	Silent	1-13/16	**29**	3/8

DRIVING CHAINS



A00D10Q

PART NO.	TYPE	PITCH (in)	ROLLER QTY
412 104 800	Single	1/2	62
412 105 400	Single	1/2	62
412 106 300	Single	1/2	62
412 106 200	Single	1/2	64
412 100 400	Single	1/2	66
412 100 100	Single	1/2	85
412 100 200	Single	1/2	88
412 100 900	Double	1/2	60
412 100 800	Double	1/2	67
412 104 600	Double	3/8	86
412 104 100	Double	3/8	88
412 105 100	Double	3/8	92
412 103 200	Triple	3/8	68
412 103 100	Triple	3/8	70
412 103 000	Triple	3/8	72
412 105 200	Triple	3/8	92
420 499 080	Triple	3/8	92
420 499 084	Triple	3/8	96
420 499 087	Triple	3/8	98
412 101 800	Triple	3/8	100
412 101 900	Triple	3/8	102
420 49 082	Triple	3/8	102
412 102 000	Triple	3/8	104
412 105 900	Silent	3/8	70
412 106 800	Silent	3/8	70
504 151 882	Silent	3/8	70
504 151 830	Silent	3/8	72
504 151 883	Silent	3/8	72
412 105 500	Silent	3/8	72 - 11
412 106 700	Silent	3/8	72 - 13
504 151 857	Silent	3/8	74
504 151 859	Silent	3/8	74
412 105 800	Silent	3/8	74 - 11
412 106 900	Silent	3/8	74 - 13
412 107 600	Silent	3/8	76
504 151 856	Silent	3/8	76
412 103 500	Silent	3/8	80
412 103 600	Silent	3/8	82
412 104 900	Silent	3/8	92
412 106 500	Silent	3/8	94
412 106 400	Silent	3/8	96
412 106 600	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	412 104 800 (Citation)	64	412 106 200

UPPER SPROCKET, SINGLE, 1/2" PITCH, 1" SHAFT, 15 SPLINES			
NB OF TEETH	P/N	NB OF TEETH	P/N
12 14	504 054 100 504 088 500	15	504 054 200

LOWER SPROCKET, SINGLE, 1/2" PITCH, 1" SHAFT, 15 SPLINES			
NB OF TEETH	P/N	NB OF TEETH	P/N
25	504 088 600	27	504 054 300

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 96	412 106 500 412 106 400	98	412 106 600

UPPER SPROCKET, SILENT, 3/8" PITCH, 1" SHAFT, 15 SPLINES			
NB OF TEETH	P/N	NB OF TEETH	P/N
17 18 19	504 071 800 504 070 100 414 680 500	20 21 22	504 074 800 504 084 000 504 074 700

LOWER SPROCKET, SILENT, 3/8" PITCH, 1" SHAFT, 15 SPLINES	
NB OF TEETH	P/N
44	504 070 900

LOWER SPROCKET, SILENT, 3/8" PITCH, 1-13/16" SHAFT, 29 SPLINES	
NB OF TEETH	P/N
44	414 652 600

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	412 106 000	72	412 106 700
70	412 105 900	74	412 105 800
72	412 105 500	74	412 106 900

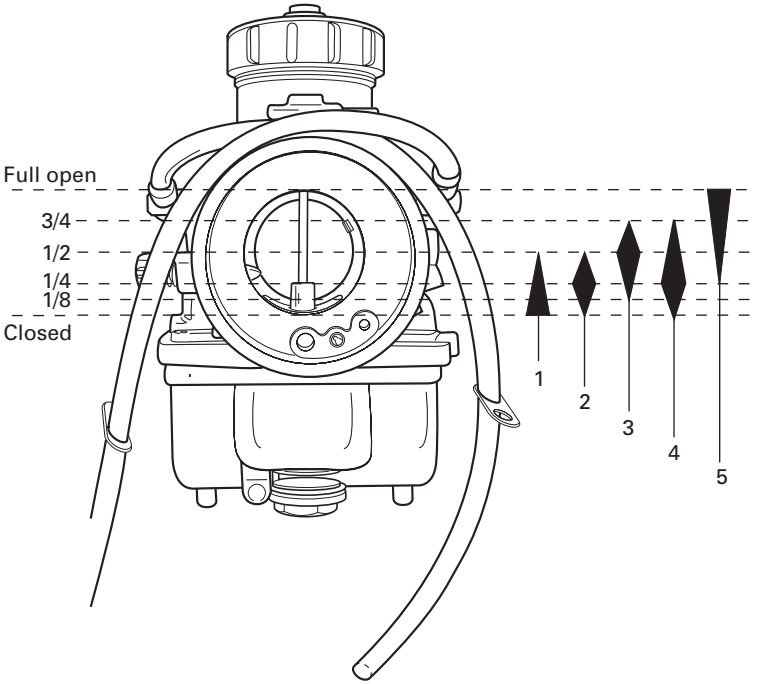
UPPER SPROCKET, SILENT, 3/8" PITCH, 1" SHAFT, 15 SPLINES			
NB OF TEETH	P/N	NB OF TEETH	P/N
20	504 074 800	24	504 078 600
21	504 084 000	25	504 084 100
22	504 074 700	25	504 084 300
23	504 078 400	26	504 055 900
23	504 085 400	26	504 085 300

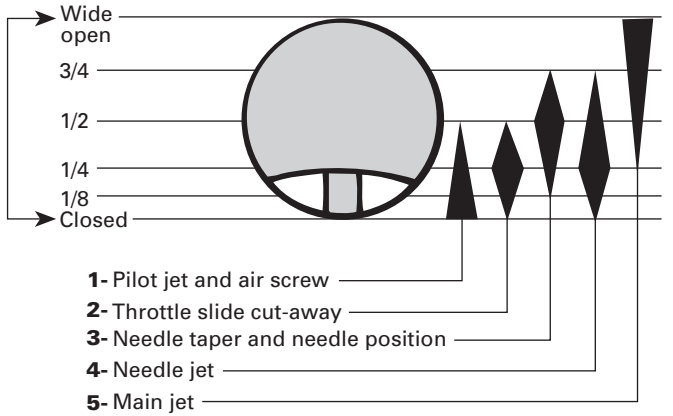
LOWER SPROCKET, SILENT, 3/8" PITCH, 1-1/8" SHAFT, 17 SPLINES			
NB OF TEETH	P/N	NB OF TEETH	P/N
38	504 056 400	44	504 085 500
40	504 056 200	44	504 084 400 (Grand Touring)
44	504 057 300		

CHAIN LENGTH CONVERSION CHART			
UPPER SPROCKET	LOWER SPOCKET		
	38	40	44
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

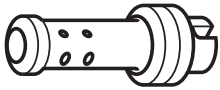
MIKUNI NO.	BOMBARDIER NO.	MIKUNI NO.	BOMBARDIER NO.
LEAN		LEAN	
#95	404 132 800	#290	404 101 100
#100	404 132 000	#300	404 101 200
#105	404 132 100	#310	404 107 800
#110	404 124 100	#320	404 101 300
#115	404 124 000	#330	404 101 400
#120	404 123 900	#340	404 104 900
#125	404 124 800	#350	404 106 000
#130	404 124 900	#360	404 106 100
#135	404 130 400	#370	404 106 200
#140	404 126 600	#380	404 106 300
#145	404 130 500	#390	404 106 400
#150	404 120 900	#400	404 100 900
#155	404 128 700	#410	404 101 000
#160	404 118 200	#420	404 107 900
#165	404 119 300	#430	404 108 000
#170	404 123 800	#440	404 108 100
#175	404 119 200	#450	404 106 500
#180	404 112 200	#460	404 106 600
#185	404 119 500	#470	404 106 700
#190	404 119 000	#480	404 106 800
#195	404 119 400	#490	404 106 900
#200	404 112 300	#520	404 115 100
#205	404 159 200	#540	404 114 800
#210	404 119 100	#560	404 108 400
#220	404 111 200	#580	404 115 400
#230	404 118 900	#600	404 115 500
#240	404 100 200	#620	404 115 700
#250	404 100 300	#640	404 115 900
#260	404 100 600	#660	404 114 700
#270	404 100 400	#680	404 116 200
#280	404 100 500	#700	404 114 600
RICH		RICH	

CARBURETOR NEEDLE JETS

A01C2CQ

MIKUNI NO.	BOMBARDIER NO.	MIKUNI NO.	BOMBARDIER NO.
LEAN		LEAN	
(159) N-2	404 147 700	(224) BB-5	404 113 100
(159) N-4	404 147 300	(224) CC-0	404 116 600
(159) N-6	404 154 300	(224) Z-5	404 127 800
(159) O-0	404 130 200	(224) Z-8	404 148 400
(159) O-2	404 147 900	(224) Z-9	404 153 800
(159) O-8	404 116 900	(286) P-0	404 158 500
(159) P-0	404 107 000	(327) N-7	404 161 839
(159) P-2	404 100 700	(327) O-2	404 161 830
(159) P-4	404 103 600	(327) O-3	404 161 803
(159) P-6	404 110 600	(480) O-4	404 152 100
(159) P-8	404 120 800	(480) O-6	404 148 500
(159) Q-0	404 110 700	(480) O-8	404 148 600
(159) Q-2	404 110 800	(480) O-9	404 161 801
(159) Q-4	404 114 200	(480) P-0	404 133 200
(159) Q-8	404 132 700	(480) P-1	404 159 000
(166) R-0	404 108 700	(480) P-2	404 131 200
(182) O-8	404 118 100	(480) P-3	404 155 000
(224) AA-0	404 133 500	(480) P-4	404 131 500
(224) AA-1	404 155 400	(480) P-5	404 157 300
(224) AA-2	404 148 300	(480) P-6	404 148 000
(224) AA-3	404 151 800	(480) P-7	404 156 900
(224) AA-4	404 147 600	(480) P-8	404 161 700
(224) AA-5	404 126 700	(480) P-9	404 161 805
(224) AA-6	404 148 200	(480) Q-3	404 160 900
(224) AA-7	404 152 800	(480) Q-4	404 149 100
(224) AA-8	404 161 815	(480) Q-6	404 157 600
(224) BB-0	404 114 000	Q-6	404 161 869
RICH		RICH	

CARBURETOR PILOT JET



A01C2EQ

MIKUNI NO.	BOMBARDIER NO.
LEAN	
#20	404 108 600
#25	404 110 300
#30	404 107 700
#35	404 102 700
#37.5	404 161 846
#40	404 109 100
#45	404 109 400
#50	404 109 500
#55	404 113 900
#60	404 121 000
#75	404 148 100
RICH	

CARBURETOR JET NEEDLE

A01C2FQ

MIKUNI NO.	BOMBARDIER NO.
6BGYI5	404 157 500
6DEH5	404 161 800
6DEY2	404 157 900
6DEY4	404 159 900
6DGY9	404 161 820
6DH2	404 110 400
6DH3	404 126 900
6DH4	404 101 900
6DH7	404 111 300
6DH8	404 124 400
6DHN43	404 147 100
6DHN44	404 147 200
6DHY48	404 161 500
6DP1	404 118 000
6DP9	404 152 600
6EJ1	404 110 500
6F9	404 109 200
6F1Y5-58	404 161 871
6FEY1	404 156 800
6FJ6	404 131 100
6FJ43	404 157 200
6FL14	404 114 100
7DFY1	404 161 847
7DH2	404 113 200
7DH3	404 127 700
7DL7	404 147 800
7DPI-1	404 157 700
7ECY1	404 157 400
7EDY1	404 156 700
7EGO6	404 147 200
7EJ5	404 133 400
7FHO1	404 133 300
8ABY1-40	404 161 804
8ADY1-41	404 161 829
8DH2	404 139 300

CARBURETOR THROTTLE SLIDE CUT-AWAY

- 1 -

WITH RETAINING PLATE

A02C0NQ

CARBURETOR	CUT-AWAY	BOMBARDIER NO.
TM 38	2.0 3.0	404 152 900 404 137 700
TMX 34-1	4.0	404 161 867
VM 28	2.0	404 118 300
VM 30	2.0	404 119 600
	2.5	404 117 200
	3.0	404 117 400 ①
VM 32	3.0	404 130 300
	3.5	404 117 100
VM 34	2.0	404 119 600
	3.0	404 117 400 ①
	3.5	404 117 100 ①
VM38	2.0	404 152 900

① USE WITH PACKING P/N 404 117 000

HIGH ALTITUDE TECHNICAL DATA - 1999 MODELS

1999 - MACH Z/MACH Z LT/MACH Z M.H.

HIGH ALTITUDE KIT (P/N 861 766 600)

DRIVE PULLEY

Clutching \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Green/Blue 414 768 200	←	←	←	←	←
Ramp	Qty 3 x 1 417 005 295	←	←	←	←	←
Calibration screw position	3	4	4	4	5	6
Pin	Qty 3 x 1 417 004 308	←	←	Qty 3 x 1 417 004 309	←	←
Engagement RPM ± 100	4200	←	←	4500	←	←
Maximum RPM ± 100	8300	←	←	←	←	←

DRIVEN PULLEY (Mach Z/Z LT)

Clutching \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Beige 414 558 900	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	53-44 417 126 387	←	←	←	←	←

DRIVEN PULLEY (Mach Z R/Z M.H. R/Z LT R)

Clutching \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Violet 414 978 300	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	0.00	←	←	←	←	←
Cam angle	° (degrees)	47-44 417 126 385	←	←	←	←	←

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

Recommendation (Mach Z/Z R/Z M.H. R): For use at and above 2400m/8000 ft **or** in deep snow;
chaincase ratio: 24/43, sprocket 24 teeth, large, (P/N 504 090 900).

Recommendation (Mach Z LT/Z LT R): For use at and above 2400m/8000 ft **or** in deep snow;
chaincase ratio: 23/43, sprocket 23 teeth, large, (P/N 504 085 400).

▼ CAUTION

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

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		310 310 310	290 290 290	270 270 270	250 250 250	230 230 230	210 210 210	PTO CTR MAG
Jet needle		8ADY1-41	←	←	←	←	←	3
Needle position		3	←	2	←	1	←	—
Slide cut-away		2.0	←	←	←	←	←	3
Pilot jet		50	←	←	←	←	←	3
Air screw		4.50	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	3
Needle jet		O-2 (327)	←	←	←	←	←	3
Float level	mm	21.0	←	←	←	←	←	—
Idle	RPM ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.30	←	1.40	←	1.50	←	—

MAIN JET CHART

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

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

HIGH ALTITUDE KIT (P/N 861 766 700)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Green/Violet 414 762 800	←	←	←	←	←
Ramp	Qty 3 x 1 417 005 286	←	←	←	←	←
Calibration screw position	3	3	4	4	5	6
Pin	Qty 3 x 1 417 004 308	←	←	Qty 3 x 1 417 004 309	←	←
Engagement RPM ± 100	4200	←	←	4500	←	←
Maximum RPM ± 100	8300	←	←	←	←	←

DRIVEN PULLEY (MACH 1)

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Beige 414 558 900	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	53-44 417 126 387	←	←	←	←	←

DRIVEN PULLEY (MACH 1 R)

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Violet 414 978 300	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	0.00 Position 0	←	←	←	←	←
Cam angle	° (degrees)	47-44 417 126 385	←	←	←	←	←

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

Recommendation: At and above 2400 m/8000 ft **or** in deep snow; chaincase ratio: 23/43, sprocket 23 teeth, large, (P/N 504 085 400).

▼ CAUTION

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

CARBURATION

Altitude / Calibration		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		300	280	260	240	220	200	3
Jet needle		8AGY1/41	←	←	←	←	←	3
Needle position		4	←	3	←	2	←	—
Slide cut-away		2.0	←	←	←	←	←	3
Pilot jet		50	←	←	←	←	←	3
Air screw		4.00	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	3
Needle jet		N-7 (327)	←	←	←	←	←	3
Float level	mm	21.0	←	←	←	←	←	—
Idle	RPM ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.3	1.5	←	1.4	←	1.5	—

MAIN JET CHART

Altitude / Temperature	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
- 40°C - 40°F	320	300	280	260	240	220	3
- 30°C - 20°F	310	290	270	250	230	210	3
- 20°C - 4°F	**300**	**280**	**260**	**240**	**220**	**200**	**3**
- 10°C 14°F	290	270	250	230	210	190	3
0°C 32°F	280	260	240	220	200	190	3
10°C 50°F	270	250	230	220	200	180	3
20°C 70°F	260	240	230	210	190	170	3

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

HIGH ALTITUDE KIT (P/N 861 766 800)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Violet/Blue 415 034 900	←	←	Green/Blue 414 768 200	←	←
Ramp	Qty 3 x 1 417 005 295	←	←	←	←	←
Calibration screw position	3	3	4	4	5	6
Pin	Qty 3 x 1 417 004 308	←	←	Qty 3 x 1 417 004 309	←	←
Engagement RPM ± 100	3800	←	←	4500	←	←
Maximum RPM ± 100	8000	←	←	←	←	←

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Beige 414 558 900	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	50-47 417 126 339	←	←	←	←	←

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

Recommendation: For use at and above 2400m/8000 ft **or** in deep snow; chaincase ratio: 24/43, sprocket 24 teeth, large, (P/N 504 090 900).

▼ CAUTION

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

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		270 290 280	250 270 260	230 250 240	220 230 220	200 210 200	180 190 180	PTO CTR MAG
Jet needle		8ADY1-41	←	←	←	←	←	3
Needle position		3	←	2	←	1	←	—
Slide cut-away		2.0	←	←	←	←	←	—
Pilot jet		50	←	←	←	←	←	3
Air screw		4.50	←	←	←	←	←	3
Valve seat		1.5	←	←	←	←	←	3
Needle jet		O-2 (327)	←	←	←	←	←	3
Float level	mm	210	←	←	←	←	←	—
Idle	RPM ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.30	←	1.40	←	1.50	←	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 40°C - 40°F	290/ 310/300	270/ 290/280	250/ 270/260	240/ 250/240	220/ 230/220	200/ 210/200	PTO/ CTR/MAG
- 30°C - 20°F	280/ 300/290	260 280/270	240/ 260/250	230/ 240/230	210/ 220/210	190/ 200/190	PTO/ CTR/MAG
- 20°C - 4°F	**270/ 290/280**	**250/ 270/260**	**230/ 250/240**	**220/ 230/220**	**200/ 210/200**	**180/ 190/180**	**PTO/ CTR/MAG**
- 10°C 14°F	260/ 280/270	240/ 260/250	220/ 240/230	210/ 220/210	190/ 200/190	170/ 180/170	PTO/ CTR/MAG
0°C 32°F	250/ 270/260	230/ 250/240	220/ 230/220	200/ 210/200	180/ 190/180	170/ 180/170	PTO/ CTR/MAG
10°C 50°F	240/ 260/250	220/ 240/230	210/ 220/210	200/ 210/200	180/ 190/180	160/ 170/160	PTO/ CTR/MAG
20°C 70°F	230/ 250/240	220/ 230/220	210/ 220/210	190/ 200/190	170/ 180/170	150/ 160/150	PTO/ CTR/MAG

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

HIGH ALTITUDE KIT (P/N 861 766 900)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Violet/Blue 415 034 900	←	←	Green/Blue 414 768 200	←	←
Ramp	Qty 3 x 1 417 005 297	←	←	←	←	←
Calibration screw position	3	3	4	3	4	5
Pin	Qty 3 x 1 417 004 308	←	←	Qty 3 x 1 417 004 309	←	←
Engagement RPM ± 100	3800	←	←	4500	←	←
Maximum RPM ± 100	8000	←	←	←	←	←

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Beige 414 558 900	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	50-47 417 126 339	←	←	←	←	←

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

Recommendation: For use at and above 2400m/8000 ft **or** in deep snow; chaincase ratio: 23/43, sprocket 23 teeth, large, (P/N 504 085 400).

▼ CAUTION

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

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		290	270	250	230	210	190	PTO CTR MAG
Jet needle		6DEH5	←	←	←	←	←	3
Needle position		3	←	2	←	1	←	—
Slide cut-away		2.5	←	←	←	←	←	—
Pilot jet		50	←	←	←	←	←	3
Air screw		2.50	←	←	←	←	←	3
Valve seat		1.5	←	←	←	←	←	3
Needle jet		P-1 (480)	←	←	←	←	←	3
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.20	←	1.30	1.40	←	1.50	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 40°C - 40°F	310	290	270	250	230	210	PTO/ CTR/MAG
- 30°C - 20°F	300	280	260	240	220	200	PTO/ CTR/MAG
- 20°C - 4°F	**290**	**270**	**250**	**230**	**210**	**190**	**PTO/ CTR/MAG**
- 10°C 14°F	280	260	240	220	200	180	PTO/ CTR/MAG
0°C 32°F	270	250	230	210	190	180	PTO/ CTR/MAG
10°C 50°F	260	240	220	210	190	170	PTO/ CTR/MAG
20°C 70°F	250	230	210	200	180	160	PTO/ CTR/MAG

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

HIGH ALTITUDE KIT (P/N 861 767 000)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Green/Blue 414 768 200	←	←	←	←	←
Ramp	Qty 3 x 1 417 005 297	←	←	Qty 3 x 1 417 005 281	←	←
Calibration screw position	3	4	5	4	5	6
Pin	Qty 3 x 1 417 334 308	←	←	Qty 3 x 1 417 004 309	←	←
Engagement RPM ± 100	4200	←	←	4500	←	←
Maximum RPM ± 100	8400	←	←	←	←	←

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Beige 414 558 900	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	50-47 417 126 339	←	←	←	←	←

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

Recommendation: For use at and above 2400m/8000 ft **or** in deep snow; chaincase ratio: 22/43 with 70 links chain, (P/N 412 106 800), sprocket 22 teeth, large, (P/N 504 083 500).

▼ CAUTION

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

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		270	250	230	210	190	170	3
Jet needle		6DEY2	←	←	←	←	←	3
Needle position		2	←	1	←	←	←	—
Slide cut-away		2.5	←	←	←	←	←	—
Pilot jet		50	←	←	←	←	←	3
Air screw		2.00	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	3
Needle jet		P-0 (286)	←	←	←	O-8 (286)	←	3
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.30	←	1.40	←	1.50	1.60	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
- 40°C - 40°F	290	270	250	230	210	190	3
- 30°C - 20°F	280	260	240	220	200	180	3
- 20°C - 4°F	**270**	**250**	**230**	**210**	**190**	**170**	**3**
- 10°C 14°F	260	240	220	200	180	160	3
0°C 32°F	250	230	210	190	170	150	3
10°C 50°F	240	220	200	180	160	140	3
20°C 70°F	230	210	190	170	150	130	3

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

HIGH ALTITUDE KIT (P/N 861 767 100)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Violet/Yellow 415 015 300	←	←	←	←	←
Ramp	417 005 286	←	←	←	←	←
Calibration screw position	3	4	5	4	5	6
Pin	Qty 3 x 1 417 004 308	←	←	Qty 3 x 1 417 004 309	←	←
Engagement RPM ± 100	3800	←	←	4500	←	←
Maximum RPM ± 100	7700	←	←	←	←	←

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Beige 414 558 900	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	50 417 126 343	←	←	←	←	←

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

Additional Information: Unscrew Rave Valve adjuster screws approximately three (3) turns at and above 2400 m/8000 ft.

Recommendation: At and above 2400 m/8000 ft **or** in deep snow; chaincase ratio: 23/43 with 72 links chain, (P/N 412 106 700), sprocket 23 teeth, large, (P/N 504 085 400).

▼ CAUTION

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

CARBURATION

Altitude / Calibration		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		310 290	290 270	260 240	240 220	210 200	190 175	PTO MAG
Jet needle		7EDY1	←	←	←	←	←	2
Needle position		3	←	←	2	←	←	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		60	←	←	←	←	←	2
Air screw		2.25	←	2.00	1.75	1.50	1.25	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		AA-3 (224)	←	←	AA-1 (224)	←	AA-0 (224)	2
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM ± 200	1700	←	←	←	←	←	—
Idle throttle valve position	mm	2.10	2.15	2.25	2.40	2.55	2.65	—

MAIN JET CHART

Altitude / Temperature	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 40°C - 40°F	330 310	310 290	280 260	260 240	230 210	210 190	PTO MAG
- 30°C - 20°F	320 300	300 280	270 250	250 230	220 200	200 180	PTO MAG
- 20°C - 4°F	**310 290**	**290 270**	**260 240**	**240 220**	**210 200**	**190 175**	**PTO MAG**
- 10°C 14°F	300 280	280 260	250 230	230 210	200 190	185 170	PTO MAG
0°C 32°F	290 270	270 250	240 220	220 200	195 185	175 160	PTO MAG
10°C 50°F	270 250	250 240	230 210	210 195	185 175	170 155	PTO MAG
20°C 70°F	260 240	240 230	220 200	200 185	185 170	160 150	PTO MAG

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

HIGH ALTITUDE KIT (P/N 861 767 200)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Violet/Blue 415 034 900	←	←	←	←	←
Ramp	Qty 3 x 1 417 005 286	←	←	Qty 3 x 1 417 005 289	←	←
Calibration screw position	3	4	5	3	4	5
Pin	417 004 309	←	←	←	←	←
Engagement RPM ± 100	4100	←	←	←	←	←
Maximum RPM ± 100	7900	←	←	←	←	←

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Beige 414 558 900	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	50 417 126 343	←	←	←	←	←

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

Additional Information: Unscrew Rave Valve adjuster screws approximately three (3) turns at and above 2400 m/8000 ft.

Recommendation: (Formula Z 583) at and above 2400 m/8000 ft **or** in deep snow; chaincase ratio: 23/43 with 72 links chain, (P/N 412 106 700), sprocket 23 teeth, large, (P/N 504 085 400).

▼ CAUTION

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

CARBURATION (Formula Z 583)

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

MAIN JET CHART (Formula Z 583)

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 40°C - 40°F	310 290	280 260	250 230	230 210	210 190	190 170	PTO MAG
- 30°C - 20°F	290 270	270 250	240 220	220 200	200 180	180 160	PTO MAG
- 20°C - 4°F	**280 260**	**260 240**	**230 210**	**210 190**	**190 170**	**170 150**	**PTO MAG**
- 10°C 14°F	270 250	250 230	220 200	200 180	180 165	165 145	PTO MAG
0°C 32°F	250 230	240 220	210 195	195 175	175 155	155 140	PTO MAG
10°C 50°F	240 220	230 210	200 185	185 165	170 150	155 135	PTO MAG
20°C 70°F	230 210	220 190	195 175	175 160	160 145	145 130	PTO MAG

CARBURATION (Formula DLX 583)

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		270 260	250 240	230 220	210 200	195 185	180 170	PTO MAG
Jet needle		6DEY4	←	←	←	←	←	2
Needle position		2	←	←	1	←	←	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		50	←	←	←	←	←	2
Air screw		2.0	1.75	1.5	←	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-7 (480)	←	←	P-5 (480)	←	P-4 (480)	2
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	2.0	2.1	2.2	2.3	2.4	2.5	—

MAIN JET CHART (Formula DLX 583)

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 40°C - 40°F	290 280	270 260	250 240	230 220	210 200	195 185	PTO MAG
- 30°C - 20°F	280 270	260 250	240 230	220 210	200 195	185 175	PTO MAG
- 20°C - 4°F	**270 260**	**250 240**	**230 220**	**210 200**	**195 185**	**175 170**	**PTO MAG**
- 10°C 14°F	260 250	240 230	220 210	200 195	180 170	155 150	PTO MAG
0°C 32°F	240 230	230 220	210 200	195 185	170 165	150 145	PTO MAG
10°C 50°F	230 220	220 210	200 195	185 180	165 160	145 140	PTO MAG
20°C 70°F	220 210	210 200	195 185	180 170	160 150	140 130	PTO MAG

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

HIGH ALTITUDE KIT (P/N 861 767 300)

DRIVE PULLEY (Formula DLX 500 LC)

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Violet/Blue 415 034 900	←	←	←	←	←
Ramp	Qty 3 x 1 417 005 286	←	←	Qty 3 x 1 417 005 281	←	←
Calibration screw position	2	3	4	4	5	6
Pin	Qty 3 x 1 417 004 309	←	←	←	←	←
Engagement RPM ± 100	3800	←	←	←	←	←
Maximum RPM ± 100	7800	←	←	←	←	←

DRIVE PULLEY (Formula Z 500)

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Violet/Yellow 415 015 300	←	←	Green/Blue 414 768 200	←	←
Ramp	Qty 3 x 1 417 005 281	←	←	←	←	←
Calibration screw position	2	3	4	4	5	6
Pin	Qty 3 x 1 417 004 309	←	←	←	←	←
Engagement RPM ± 100	4100	←	←	4300	←	←
Maximum RPM ± 100	7800	←	←	←	←	←

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Beige 414 558 900	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	50° 417 126 343	←	←	←	←	←

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.

CARBURATION

Altitude / Calibration		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		300 280	280 260	260 240	240 210	220 200	200 180	PTO MAG
Jet needle		6DGY9	←	←	←	←	←	2
Needle position		2	←	←	1	←	←	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		50	←	←	55	←	←	2
Air screw		2.00	←	←	2.50	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		Q-3 (480)	←	←	←	←	←	2
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.80	1.90	2.10	2.30	2.40	2.50	—

MAIN JET CHART

Altitude / Temperature	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 40°C - 40°F	320 300	300 280	280 260	260 230	240 220	220 200	PTO MAG
- 30°C - 20°F	310 290	290 270	270 250	250 220	230 210	210 190	PTO MAG
- 20°C - 4°F	**300 280**	**280 260**	**260 240**	**240 210**	**220 200**	**200 180**	**PTO MAG**
- 10°C 14°F	290 270	270 250	250 230	230 200	210 190	190 170	PTO MAG
0°C 32°F	280 260	260 240	240 220	220 190	200 180	180 160	PTO MAG
10°C 50°F	270 250	250 230	230 210	210 180	190 170	170 150	PTO MAG
20°C 70°F	260 240	240 220	220 200	200 170	180 160	160 140	PTO MAG

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

HIGH ALTITUDE KIT (P/N 861 767 400)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Yellow/Red 414 993 000	←	Blue/Yellow 414 689 500	←	←	←
Ramp	Qty 3 417 005 291X	←	Qty 3 417 005 292X	←	←	←
Calibration screw position	3	4	2	3	4	5
Pin	Qty 3 417 004 309	←	←	←	←	←
Engagement RPM ± 100	3300	←	3600	←	←	←
Maximum RPM ± 100	7000	←	←	←	←	←

DRIVEN PULLEY (Formula SL)

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring		Orange 414 505 800	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	4.8 10.6	←	←	←	←	←
Cam angle	° (degrees)	44 417 126 333	←	←	←	←	←

DRIVEN PULLEY (Formula Deluxe 500)

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring		Yellow 415 092 800	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	0.00 Position 3	←	←	←	←	←
Cam angle	° (degrees)	47 - 44 417 124 700	←	←	←	←	←

REVERSE CONNECTOR (Formula Deluxe 500)

	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Reverse connector	515 174 800	←	←	←	515 174 700	←

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.

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		180 170	170 160	160 150	150 140	140 130	130 120	PTO MAG
Jet needle		6DH2	←	←	←	←	←	2
Needle position		3	←	←	2	←	←	—
Slide cut-away		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 ± 200	1650	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	←	1.6	1.7	1.8	1.85	—

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

MAIN JET CHART

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

HIGH ALTITUDE KIT (P/N 861 767 500)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Red/Blue 417 118 400	←	←	←	←	←
Block	Qty 3 x 1 417 118 100	←	←	←	←	←
Weight	Qty 3 x 1 417 120 400	←	Qty 3 x 5 417 114 400	Qty 3 x 4 ←	Qty 3 x 3 ←	Qty 3 x 2 ←
Capsule	Qty 3 x 1 417 114 500	←	←	←	←	←
Engagement RPM ± 100	3500	←	←	←	←	←
Maximum RPM ± 100	6900	←	←	←	←	←

DRIVEN PULLEY (Formula S)

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring		Orange 414 505 800	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	4.8 10.6	←	←	←	←	←
Cam angle	° (degrees)	44 417 126 333	←	←	←	←	←

DRIVEN PULLEY (Formula Deluxe 380)

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring		Yellow 417 092 800	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	0.00 Position 3	←	←	←	←	←
Cam angle	° (degrees)	47 - 44 417 124 700	←	←	←	←	←

ELECTRONIC REVERSE (Formula Deluxe 380)

	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Reverse connector	515 174 800	←	←	←	515 174 700	←

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.

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 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	←	←	←	←	←	2
Air screw		1.25	←	←	1.5	←	←	2
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-0 (159)	←	←	O-8 (159)	←	←	2
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM ± 200	1650	←	←	←	←	←	—
Idle throttle valve position	mm	1.3	←	←	1.7	←	←	—

MAIN JET CHART

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

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

HIGH ALTITUDE KIT (P/N 861 767 600)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Green/Blue 414 768 200	←	←	← Green/Pink 414 756 900	←	←
Ramp	415 005 297	←	←	←	←	←
Calibration screw position	2	3	4	4	5	6
Pin	Qty 3 x 1 417 004 308	←	←	Qty 3 x 1 417 004 309	←	←
Engagement RPM ± 100	4200	←	←	4500	←	←
Maximum RPM ± 100	8000	←	←	←	←	←

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Beige 414 558 900	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	53 - 47 417 126 380	←	←	←	←	←

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

Recommendation: At and above 2400 m/8000 ft **or** in deep snow; chaincase ratio: 23/43 with 72 links chain, (P/N 412 106 700), sprocket 23 teeth, large, (P/N 504 085 400).

▼ CAUTION

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

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		340 310	←	←	←	←	←	PTO MAG
Jet needle		7ECY1	←	←	←	←	←	2
Needle position		3	←	←	←	←	←	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		55	←	←	←	←	←	2
Air screw		1.75	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	—
Needle jet		AA-4 (224)	←	←	←	←	←	2
Float level	mm	22.9	←	←	←	←	←	—
Idle	RPM ± 200	1700	←	←	←	←	←	—
Idle throttle valve position	mm	1.9	2.1	2.2	2.3	2.4	2.5	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 40°C - 40°F	360 330	←	←	←	←	←	PTO MAG
- 30°C - 20°F	350 320	←	←	←	←	←	PTO MAG
- 20°C - 4°F	**340 310**	←	←	←	←	←	**PTO MAG**
- 10°C 14°F	340 310	←	←	←	←	←	PTO MAG
0°C 32°F	340 310	←	←	←	←	←	PTO MAG
10°C 50°F	340 310	←	←	←	←	←	PTO MAG
20°C 70°F	340 310	←	←	←	←	←	PTO MAG

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

HIGH ALTITUDE KIT (P/N 861 767 700)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Violet/Yellow 415 015 300	←	←	Blue/Orange 414 639 000	←	←
Ramp	Qty 3 x 1 417 005 281	←	←	←	←	←
Calibration screw position	3	4	5	3	4	5
Pin	Qty 3 x 1 417 004 308	←	←	Qty 3 x 1 417 004 309	←	←
Engagement RPM ± 100	3800	←	←	←	←	←
Maximum RPM ± 100	8000	←	←	←	←	←

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Beige 414 558 900	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	50° 417 126 343	←	←	←	←	←

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

Recommendation: From 2400 m (8000 ft) and above, or in deep snow, install a large 22 teeth sprocket (P/N 504 083 500) to set chain case ratio to 23/43 whit 70 links chain.

▼ CAUTION

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

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		280 280	270 270	250 250	230 230	220 220	210 210	PTO MAG
Jet needle		7DfY1	←	←	←	←	←	2
Needle position		3	←	←	2	←	←	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		37.5	←	←	45	←	←	2
Air screw		0.5	←	←	←	←	←	—
Valve seat		1.5 (V)	←	←	←	←	←	2
Needle jet		Z-9 (224)	←	←	←	←	←	2
Float level	mm	22.9	←	←	←	←	←	—
Idle	RPM ± 200	1600	←	←	←	←	←	—
Idle throttle valve position	mm	1.3	1.4	1.5	1.7	1.8	1.9	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 40°C - 40°F	300 300	290 290	270 270	250 250	240 240	230 230	PTO MAG
- 30°C - 20°F	290 290	280 280	260 260	240 240	230 230	220 220	PTO MAG
- 20°C - 4°F	**280 280**	**270 270**	**250 250**	**230 230**	**220 220**	**210 210**	**PTO MAG**
- 10°C 14°F	270 270	260 260	240 240	220 220	210 210	205 205	PTO MAG
0°C 32°F	260 260	250 250	230 230	210 210	205 205	200 200	PTO MAG
10°C 50°F	250 250	240 240	220 220	205 205	200 200	195 195	PTO MAG
20°C 70°F	240 240	230 230	210 210	200 200	195 195	190 190	PTO MAG

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

HIGH ALTITUDE KIT (P/N 861 767 800)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Violet/Yellow 415 015 300	←	←	Green/Blue 414 768 200	←	←
Ramp	417 005 281	←	←	←	←	←
Calibration screw position	2	3	4	4	5	6
Pin	417 004 309	←	←	←	←	←
Engagement RPM ± 100	4100	←	←	4300	←	←
Maximum RPM ± 100	7800	←	←	←	←	←

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Beige 415 558 900	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	50° 417 126 343	←	←	←	←	←

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.

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		300 280	280 260	260 240	240 210	220 200	200 180	PTO MAG
Jet needle		6DGY9	←	←	←	←	←	2
Needle position		3	←	←	2	←	←	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		50	←	←	45	←	←	2
Air screw		2.5	←	←	3.0	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		Q-4 (480)	←	←	←	←	←	2
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.8	←	2.1	2.2	2.3	2.4	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 40°C - 40°F	320 300	300 280	280 260	260 230	240 220	220 200	PTO MAG
- 30°C - 20°F	310 290	290 270	270 250	250 220	230 210	210 190	PTO MAG
- 20°C - 4°F	**300 280**	**280 260**	**260 240**	**240 210**	**220 200**	**200 180**	**PTO MAG**
- 10°C 14°F	290 270	270 250	250 230	230 200	210 190	190 170	PTO MAG
0°C 32°F	280 260	260 240	240 220	220 190	200 180	180 160	PTO MAG
10°C 50°F	270 250	250 230	230 210	210 180	190 170	170 150	PTO MAG
20°C 70°F	260 240	240 220	220 200	200 170	180 160	160 140	PTO MAG

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

HIGH ALTITUDE KIT (P/N 861 767 900)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Blue/Yellow 414 689 500	←	Blue/Green 414 817 700	←	←	←
Ramp	Qty 3 x 1 417 005 291X	←	Qty 3 x 1 417 005 292X	←	←	←
Calibration screw position	3	4	2	3	4	5
Pin	Qty 3 x 1 417 004 309	←	←	←	←	←
Engagement RPM ± 100	3700	←	←	←	←	←
Maximum RPM ± 100	7000	←	←	←	←	←

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring		Orange 414 505 800	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	6.1 13.4	←	←	←	←	←
Cam angle	° (degrees)	47 417 126 337	←	←	←	←	←

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.

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		205 195	195 185	185 175	175 165	165 155	155 145	PTO MAG
Jet needle		6DH2	←	←	←	←	←	2
Needle position		3	←	←	2	←	1	—
Slide cut-away		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 ± 200	1650	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	←	1.6	1.8	1.9	2.0	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 40°C - 40°F	215 205	205 195	195 185	185 175	180 170	170 160	PTO MAG
- 30°C - 20°F	210 200	200 190	190 180	180 170	170 160	160 150	PTO MAG
- 20°C - 4°F	**205 195**	**195 185**	**185 175**	**175 165**	**165 155**	**155 145**	**PTO MAG**
- 10°C 14°F	200 190	190 180	180 170	170 160	160 150	150 140	PTO MAG
0°C 32°F	195 185	185 175	175 165	165 155	155 145	145 135	PTO MAG
10°C 50°F	185 175	175 165	165 155	155 145	145 135	140 130	PTO MAG
20°C 70°F	180 170	170 160	160 150	150 140	140 130	135 125	PTO MAG

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

HIGH ALTITUDE KIT (P/N 861 768 000)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Yellow/ Orange 414 689 700	←	←	Violet/ Yellow 415 015 300	←	←
Ramp	Qty 3 x 1 417 005 297	←	←	←	←	←
Calibration screw position	3	4	5	4	5	6
Pin	Qty 3 x 1 417 004 308	←	←	Qty 3 x 1 417 004 309	←	←
Engagement RPM ± 100	3300	←	←	4200	←	←
Maximum RPM ± 100	8000	←	←	←	←	←

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Violet 414 978 300	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	0.00	←	←	←	←	←
Cam angle	° (degrees)	47-44 417 126 385	←	←	←	←	←

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

Recommendation: At and above 2400 m/8000 ft **or** in deep snow; chaincase ratio: 22/43 with 70 links chain, (P/N 412 106 800), sprocket 22 teeth, large, (P/N 504 083 500).

▼ CAUTION

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

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		270 290 280	←	←	←	←	←	PTO CTR MAG
Jet needle		8ADY1-41	←	←	←	←	←	3
Needle position		3	←	←	←	←	←	—
Slide cut-away		2.0	←	←	←	←	←	3
Pilot jet		50	←	←	←	←	←	3
Air screw		4.50	←	←	←	←	←	3
Valve seat		1.5	←	←	←	←	←	3
Needle jet		O-2 (327)	←	←	←	←	←	3
Float level	mm	21.0	←	←	←	←	←	—
Idle	RPM ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.30	←	←	1.40	←	1.50	—

1999 - GRAND TOURING SE

MAIN JET CHART

Altitude / Temperature	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
- 40°C - 40°F	290 310 300	←	←	←	←	←	PTO CTR MAG
- 30°C - 20°F	280 300 290	←	←	←	←	←	PTO CTR MAG
- 20°C - 4°F	**270 290 280**	←	←	←	←	←	**PTO CTR MAG**
- 10°C 14°F	270 290 280	←	←	←	←	←	PTO CTR MAG
0°C 32°F	270 290 280	←	←	←	←	←	PTO CTR MAG
10°C 50°F	270 290 280	←	←	←	←	←	PTO CTR MAG
20°C 70°F	270 290 280	←	←	←	←	←	PTO CTR MAG

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

HIGH ALTITUDE KIT (P/N 861 768 100)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Yellow/Red 414 993 000	←	←	Violet/Yellow 415 015 300	←	←
Ramp	Qty 3 x 1 417 005 285	←	←	←	←	←
Calibration screw position	4	5	6	4	5	6
Pin	Qty 3 x 1 417 004 308	←	←	Qty 3 x 1 417 004 309	←	←
Engagement RPM ± 100	3300	←	←	4200	←	←
Maximum RPM ± 100	8000	←	←	←	←	←

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Violet 414 978 300	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	0.00	←	←	←	←	←
Cam angle	° (degrees)	47-44 417 126 385	←	←	←	←	←

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

Recommendation: At and above 2400 m/8000 ft **or** in deep snow; chaincase ratio: 22/43 with 70 links chain, (P/N 412 106 800), sprocket 22 teeth, large, (P/N 504 083 500).

▼ CAUTION

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

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
Main jet		290	290	290	290	290	290	PTO CTR MAG
Jet needle		6DEH5	←	←	←	←	←	—
Needle position		3	←	←	←	←	←	—
Slide cut-away		2.5	←	←	←	←	←	—
Pilot jet		50	←	←	←	←	←	—
Air screw		2.50	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	—
Needle jet		P-1 (480)	←	←	←	←	←	—
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.20	←	1.30	1.40	←	1.50	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 40°C - 40°F	310	←	←	←	←	←	PTO CTR MAG
- 30°C - 20°F	300	←	←	←	←	←	PTO CTR MAG
- 20°C - 4°F	**290**	←	←	←	←	←	**PTO CTR MAG**
- 10°C 14°F	290	←	←	←	←	←	PTO CTR MAG
0°C 32°F	290	←	←	←	←	←	PTO CTR MAG
10°C 50°F	290	←	←	←	←	←	PTO CTR MAG
20°C 70°F	290	←	←	←	←	←	PTO CTR MAG

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

HIGH ALTITUDE KIT (P/N 861 768 200)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Spring	Red/Orange 415 015 200	←	←	Violet/Blue 415 034 900	←	←	1
Ramp	Qty 3 x 1 417 005 285	←	←	Qty 3 x 1 417 005 289	←	←	3
Calibration screw position	3	4	5	4	5	6	—
Pin	417 004 309	←	←	←	←	←	3
Engagement RPM ± 100	3100	←	←	4200	←	←	—
Maximum RPM ± 100	7900	←	←	←	←	←	—

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Beige 414 558 900	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	47 417 126 337	←	←	←	←	←

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

Additional information: Unscrew Rave Valve adjuster screws approximately three (3) turns at 2400 m/8000 ft.

▼ CAUTION

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

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		270 260	250 240	230 220	210 200	195 185	180 170	PTO MAG
Jet needle		6DEY4	←	←	←	←	←	2
Needle position		2	←	←	1	←	←	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		50	←	←	←	←	←	2
Air screw		2.0	1.75	1.5	←	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-7 (480)	←	←	P-5 (480)	←	P-4 (480)	2
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	2.00	2.10	2.20	2.30	2.40	2.50	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 40°C - 40°F	290 280	270 260	250 240	230 220	210 200	195 185	PTO MAG
- 30°C - 20°F	280 270	260 250	240 230	220 210	200 195	185 175	PTO MAG
- 20°C - 4°F	**270 260**	**250 240**	**230 220**	**210 200**	**195 185**	**175 170**	**PTO MAG**
- 10°C 14°F	260 250	240 230	220 210	200 195	180 170	155 150	PTO MAG
0°C 32°F	250 240	230 220	210 200	195 185	170 165	150 145	PTO MAG
10°C 50°F	240 230	220 210	200 195	185 180	165 160	145 140	PTO MAG
20°C 70°F	230 220	210 200	195 185	180 170	160 150	140 130	PTO MAG

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

HIGH ALTITUDE KIT (P/N 861 768 300)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Blue/Green 414 817 700	←	←	Blue/Blue 414 689 400	←	←
Ramp	417 005 228	←	←	←	←	←
Calibration screw position	2	3	4	4	5	6
Pin	417 004 309	←	←	←	←	←
Engagement RPM ± 100	3600	←	←	←	←	←
Maximum RPM ± 100	7800	←	←	←	←	←

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Beige 414 558 900	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	44 417 126 333	←	←	←	←	←

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.

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		300 280	280 260	260 240	240 210	220 200	200 180	PTO MAG
Jet needle		6DGY9	←	←	←	←	←	2
Needle position		2	←	←	1	←	←	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		50	←	←	55	←	←	2
Air screw		2.0	←	←	2.50	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		Q-3 (480)	←	←	←	←	←	2
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.80	1.90	2.10	2.30	2.40	2.50	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 40°C - 40°F	320 300	300 280	280 260	260 230	240 220	220 200	PTO MAG
- 30°C - 20°F	310 290	290 270	270 250	250 220	230 210	210 190	PTO MAG
- 20°C - 4°F	300 280	280 260	260 240	**240 210**	**220 200**	**200 180**	**PTO MAG**
- 10°C 14°F	290 270	270 250	250 230	230 200	210 190	190 170	PTO MAG
0°C 32°F	280 260	260 240	240 220	220 190	200 180	180 160	PTO MAG
10°C 50°F	270 250	250 230	230 210	210 180	190 170	170 150	PTO MAG
20°C 70°F	260 240	240 220	220 200	200 170	180 160	160 140	PTO MAG

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

HIGH ALTITUDE KIT (P/N 861 768 400)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Red/Red 414 689 800	←	Yellow/Green 414 742 100	←	←	←
Ramp ①	Qty 3 x 1 417 005 291X	←	Qty 3 x 1 417 005 284	←	←	←
Calibration screw position	3	4	2	3	4	5
Pin	Qty 3 x 1 417 004 309	←	←	←	←	←
Engagement RPM ± 100	2900	←	3300	←	←	←
Maximum RPM ± 100	7000	←	←	←	←	←

① NOTE: On Skandic 500, the part number of the ramp is 417 005 292X.

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring		Yellow 415 092 800	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	0.00 Position 3 0.00	←	←	←	←	←
Cam angle	° (degrees)	47 - 44 417 124 700	←	←	←	←	←

ELECTRONIC REVERSE

	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Reverse connector	515 174 800	←	←	←	515 174 700	←

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.

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		180 170	170 160	160 150	150 140	140 130	130 120	PTO MAG
Jet needle		6DH2	←	←	←	←	←	2
Needle position		3	←	←	←	←	←	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		40	←	←	45	←	←	2
Air screw		1.88	←	←	0.750	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-0 (159)	←	←	←	←	←	2
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM ± 200	1650	←	←	1550	←	←	—
Idle throttle valve position	mm	1.5	1.8	2.1	2.4	2.5	2.6	—

MAIN JET CHART

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

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

HIGH ALTITUDE KIT (P/N 861 768 500)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Red/Yellow 414 817 500	←	Yellow/Green 414 742 100	←	←	←
Ramp	Qty 3 x 1 417 005 284	←	←	←	←	←
Calibration screw position	2	3	2	3	4	5
Pin	417 004 309	←	←	←	←	←
Engagement RPM ± 100	2900	←	3300	←	←	←
Maximum RPM ± 100	7000	←	←	←	←	←

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring		Yellow 415 092 800	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	0.0 Position 3 0.0	←	←	←	←	←
Cam angle	° (degrees)	47 - 44 417 124 700	←	←	←	←	←

ELECTRONIC REVERSE

	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Reverse connector	515 174 800	←	←	←	515 174 700	←

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.

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		205 195	195 185	185 175	175 165	165 155	155 145	PTO MAG
Jet needle		6DH2	←	←	←	←	←	2
Needle position		3	←	←	2	←	1	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		35	←	←	←	←	←	2
Air screw		1.50	←	←	1.0	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-0 (159)	←	←	←	←	←	2
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM ± 200	1650	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	←	1.6	1.8	1.9	2.0	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 40°C - 40°F	215 205	205 195	195 185	185 175	180 170	170 160	PTO MAG
- 30°C - 20°F	210 200	200 190	190 180	180 170	170 160	160 150	PTO MAG
- 20°C - 4°F	205 195	195 185	185 175	175 165	165 155	155 145	**PTO MAG**
- 10°C 14°F	200 190	190 180	180 170	170 160	160 150	150 140	PTO MAG
0°C 32°F	195 185	185 175	175 165	165 155	155 145	145 135	PTO MAG
10°C 50°F	185 175	175 165	165 155	155 145	145 135	140 130	PTO MAG
20°C 70°F	180 170	170 160	160 150	150 140	140 130	135 125	PTO MAG

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

HIGH ALTITUDE KIT (P/N 861 768 600)

DRIVE PULLEY

Clutching \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Green/Green on Violet 417 125 300	←	Red/Blue on Violet 417 118 400	←	←	←
Block	Qty 3 x 1 417 118 100	←	←	←	←	←
Weight	Qty 3 x 1 417 120 400	←	Qty 3 x 5 417 114 400	Qty 3 x 4 ←	Qty 3 x 3 ←	Qty 3 x 2 ←
Capsule	Qty 3 x 1 417 114 500	←	←	←	←	←
Engagement RPM ± 100	2500	←	3100	←	←	←
Maximum RPM ± 100	6900	←	←	←	←	←

DRIVEN PULLEY

Clutching \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring		Yellow 415 092 800	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	0.0 Position 3 0.0	←	←	←	←	←
Cam angle	° (degrees)	47 - 44 417 124 700	←	←	←	←	←

ELECTRONIC REVERSE

	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Reverse connector	515 174 800	←	←	←	515 174 700	←

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.

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 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	←	←	←	←	←	2
Air screw		1.25	←	←	1.5 ①	←	←	2
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-0 (159)	←	←	O-8 (159)	←	←	2
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM ± 200	1650	←	←	←	←	←	—
Idle throttle valve position	mm	1.3	←	←	1.7	←	←	—

① On Skandic 380, from 1800 m (4000 ft) and over, carburetor air screw must be positioned at 0.5 turn on PTO side and at 1.0 turn on MAG side.

MAIN JET CHART

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

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

repeated.

1999 - TUNDRA/TUNDRA R

HIGH ALTITUDE KIT (P/N 861 768 900)

DRIVE PULLEY (Tundra/Tundra R)

Clutching \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Turquoise 417 115 900	←	Yellow/Green on Violet 417 118 500	←	←	←
Block	Qty 3 x 1 417 114 300	←	←	←	←	←
Weight	—	—	Qty 3 x 2 417 114 400	Qty 3 x 1 ←	Qty 3 x 1 ←	—
Capsule	Qty 3 x 2 417 114 500	←	Qty 3 x 1 ←	Qty 3 x 2 ←	Qty 3 x 2 ←	Qty 3 x 3 ←
Engagement RPM ± 100	3100	←	3500	←	←	←
Maximum RPM ± 100	6900	←	←	←	←	←

DRIVEN PULLEY (Tundra R)

Clutching \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Yellow 415 094 300	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	0.00 Position3	←	←	←	←	←
Cam angle	° (degrees)	37.8 417 126 350	←	←	←	←	←

DRIVEN PULLEY (Tundra)

Clutching \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		White 414 509 900	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	3.6 7.9	←	5.9 13.0	←	←	←
Cam angle	° (degrees)	37.8 504 081 300	←	←	←	←	←

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.

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		190	185	175	150	140	130	1
Jet needle		6DH4	←	←	←	←	←	1
Needle position		2	←	←	←	←	←	—
Slide cut-away		2.5	←	←	←	←	←	1
Pilot jet		40	←	←	35	←	←	1
Air screw		1.0	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	1
Needle jet		O-8 (159)	←	←	←	←	←	1
Float level	mm	23.9	←	←	←	←	←	—

(Tundra Only)

Idle	RPM ± 200	1200	←	←	←	←	←	—
Idle throttle valve position	mm	1.3	←	←	1.5	←	←	—

(Tundra R Only)

Idle	RPM ± 200	1650	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	←	←	1.7	←	←	—

MAIN JET CHART

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

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

HIGH ALTITUDE KIT (P/N 861 769 000)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Yellow/Blue 414 818 000	←	Red/Red 414 689 800	←	←	←
Ramp	Qty 3 x 1 417 005 290	←	←	←	←	←
Calibration screw position	4	5	1	2	3	4
Pin	Qty 3 x 1 417 004 308	←	Qty 3 x 1 417 004 309	←	←	←
Engagement RPM ± 100	2500	←	←	←	←	←
Maximum RPM ± 100	7000	←	←	←	←	←

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Blue A C S 3 - 188	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	40	←	←	←	←	←

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.

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		250 240	240 230	230 220	220 210	200 200	190 190	PTO MAG
Jet needle		6DH4	←	←	←	←	←	2
Needle position		2	←	←	←	←	←	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		40	←	←	←	←	←	2
Air screw		1.0	←	←	0.5	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-2 (159)	←	←	←	←	←	2
Float level	mm	36.5	←	←	←	←	←	—
Idle	RPM ± 200	1900	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	1.6	1.7	1.8	1.9	2.0	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 40°C - 40°F	270 260	260 250	250 240	240 230	230 220	220 210	PTO MAG
- 30°C - 20°F	260 250	250 240	240 230	230 220	220 210	210 200	PTO MAG
- 20°C - 4°F	**250 240**	**240 230**	**230 220**	**220 210**	**210 200**	**200 190**	**PTO MAG**
- 10°C 14°F	240 230	230 220	220 210	210 200	200 190	190 180	PTO MAG
0°C 32°F	230 220	220 210	210 200	200 190	190 180	180 170	PTO MAG
10°C 50°F	220 210	210 200	200 190	190 180	180 170	170 160	PTO MAG
20°C 70°F	210 200	200 190	190 180	170 170	160 160	150 150	PTO MAG

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

HIGH ALTITUDE KIT (P/N 861 769 100)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Yellow/Orange 414 689 700	←	←	Blue/Green 414 817 700	←	←
Ramp	Qty 3 x 1 417 005 290	←	←	←	←	←
Calibration screw position	4	5	6	2	3	4
Pin	Qty 3 x 1 417 004 309	←	←	←	←	←
Engagement RPM ± 100	3000	←	←	3300	←	←
Maximum RPM ± 100	6800	←	←	←	←	←

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Blue A C S 3 - 188	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	40	←	←	←	←	←

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.

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		210	200	190	180	170	160	2
Jet needle		6DH2	←	←	←	←	←	2
Needle position		3	←	←	←	←	←	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		40	←	←	←	←	←	2
Air screw		1.0	←	←	0.75	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-2 (159)	←	←	←	←	←	2
Float level	mm	36.5	←	←	←	←	←	—
Idle	RPM ± 200	1650	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	←	1.6	1.7	1.8	1.9	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
- 40°C - 40°F	230	220	210	200	190	180	2
- 30°C - 20°F	220	210	200	190	180	170	2
- 20°C - 4°F	**210**	**200**	**190**	**180**	**170**	**160**	**2**
- 10°C 14°F	205	190	180	170	160	150	2
0°C 32°F	200	190	180	165	155	145	2
10°C 50°F	190	180	170	160	150	140	2
20°C 70°F	180	170	160	150	140	130	2

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

HIGH ALTITUDE KIT (P/N 861 769 200)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Yellow/Orange 414 689 700	←	←	←	←	Blue/Yellow 414 689 500
Ramp	Qty 3 x 1 417 005 290	←	←	←	←	←
Calibration screw position	2	3	4	5	6	3
Pin	Qty 3 x 1 417 004 309	←	←	←	←	←
Engagement RPM ± 100	3000	←	←	←	←	3300
Maximum RPM ± 100	6800	←	←	←	←	←

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Blue A C S 3 - 188	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	40	←	←	←	←	←

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.

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		185 185	180 175	175 170	170 165	165 160	160 155	PTO MAG
Jet needle		6DH2	←	←	←	←	←	1
Needle position		3	←	←	←	←	←	—
Slide cut-away		2.5	←	←	←	←	←	1
Pilot jet		40	←	←	←	←	←	1
Air screw		1.25	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-1 (159)	←	←	←	←	←	1
Float level	mm	36.5	←	←	←	←	←	—
Idle	RPM ± 200	1650	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	←	←	←	←	←	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
- 40°C - 40°F	205 205	200 195	195 190	190 185	185 180	180 175	PTO MAG
- 30°C - 20°F	195 195	190 185	185 180	180 175	175 170	170 165	PTO MAG
- 20°C - 4°F	**185 185**	**180 175**	**175 170**	**170 165**	**165 160**	**160 155**	PTO MAG
- 10°C 14°F	180 180	175 170	170 165	165 160	160 155	155 150	PTO MAG
0°C 32°F	175 175	170 165	165 160	160 155	155 150	150 145	PTO MAG
10°C 50°F	170 170	165 160	160 155	155 150	150 145	145 140	PTO MAG
20°C 70°F	170 170	165 160	155 150	155 150	150 145	145 140	PTO MAG

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

HIGH ALTITUDE KIT (P/N 861 771 600)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Violet/Yellow 415 015 300	←	←	←	←	←
Ramp	Qty 3 x 1 417 005 297	←	←	←	←	←
Calibration screw position	3	4	2	3	4	5
Pin	Qty 3 x 1 417 004 308	←	Qty 3 x 1 417 004 309	←	←	←
Engagement RPM ± 100	3800	←	4100	←	←	←
Maximum RPM ± 100	8000	←	←	←	←	←

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Beige 414 558 900	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	47° 417 126 337	←	←	←	←	←

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

Additional information: From 2400 m (8000 ft) and above, or in deep snow, install a large 23 teeth sprocket (P/N 504 085 400) to set chain case ratio to 23/43.

▼ CAUTION

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

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		310 310	310 310	310 310	310 310	310 310	310 310	PTO MAG
Jet needle		7DHY6	←	←	←	←	←	2
Needle position		4	←	←	←	←	←	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		40	←	←	←	←	←	2
Air screw		1.0	←	←	←	←	←	—
Valve seat		1.5 (V)	←	←	←	←	←	2
Needle jet		Z-5 (224)	←	←	←	←	←	2
Float level	mm	22.9	←	←	←	←	←	—
Idle	RPM ± 200	1600	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	1.6	1.7	1.8	1.9	2.0	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 40°C - 40°F	←	←	←	←	←	←	PTO MAG
- 30°C - 20°F	←	←	←	←	←	←	PTO MAG
- 20°C - 4°F	**310 310**	**310 310**	**310 310**	**310 310**	**310 310**	**310 310**	**PTO MAG**
- 10°C 14°F	←	←	←	←	←	←	PTO MAG
0°C 32°F	←	←	←	←	←	←	PTO MAG
10°C 50°F	←	←	←	←	←	←	PTO MAG
20°C 70°F	←	←	←	←	←	←	PTO MAG

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

HIGH ALTITUDE KIT (High Performance)

(P/N 861 772 900)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Violet/Yellow 415 015 300	←	Green/Blue 414 768 200	←	←	←
Ramp	Qty 3 x 1 417 005 281	←	Qty 3 x 1 417 005 294	←	←	←
Calibration screw position	3	4	3	4	5	6
Pin	Qty 3 x 1 417 004 308	←	Qty 3 x 1 417 004 309	←	←	←
Engagement RPM ± 100	3800	←	4200	←	←	←
Maximum RPM ± 100	8000	←	←	←	←	←

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Beige 414 558 900	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	50° 417 126 343	←	47° 417 126 337	←	←	←

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

Recommendation: From 2400 m (8000 ft) and above, or in deep snow, install a large 23 teeth sprocket (P/N 504 085 400) to set chain case ratio to 23/43.

▼ CAUTION

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

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		280 280	270 270	250 250	230 230	220 220	210 210	PTO MAG
Jet needle		7DfY1	←	←	←	←	←	2
Needle position		3	←	←	2	←	←	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		37.5	←	←	45	←	←	2
Air screw		0.5	←	←	←	←	←	—
Valve seat		1.5 (V)	←	←	←	←	←	2
Needle jet		Z-9 (224)	←	←	←	←	←	2
Float level	mm	22.9	←	←	←	←	←	—
Idle	RPM ± 200	1600	←	←	←	←	←	—
Idle throttle valve position	mm	1.3	1.4	1.5	1.7	1.8	1.9	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 40°C - 40°F	300 300	290 290	270 270	250 250	240 240	230 230	PTO MAG
- 30°C - 20°F	290 290	280 280	260 260	240 240	230 230	220 220	PTO MAG
- 20°C - 4°F	**280 280**	**270 270**	**250 250**	**230 230**	**220 220**	**210 210**	**PTO MAG**
- 10°C 14°F	270 270	260 260	240 240	220 220	210 210	205 205	PTO MAG
0°C 32°F	260 260	250 250	230 230	210 210	205 205	200 200	PTO MAG
10°C 50°F	250 250	240 240	220 220	205 205	200 200	195 195	PTO MAG
20°C 70°F	240 240	230 230	210 210	200 200	195 195	190 190	PTO MAG

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

SEA LEVEL TECHNICAL DATA - 1999 MODELS

1999 - SUMMIT X 670

SEA LEVEL KIT (P/N 861 770 800)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	←	Violet/Violet 414 817 900	←	←	Violet/Yellow 415 015 300	←
Ramp	←	417 005 286	←	←	417 005 287	←
Calibration screw position	3	4	3	4	5	6
Pin	←	417 004 308	←	←	417 004 309	←
Engagement RPM ± 100	←	3800	←	←	4100	←
Maximum RPM ± 100	←	←	←	←	8000	←

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		←	←	←	←	Beige 414 558 900	←
Spring tension	Kg ± 0.7 lb ± 1.5	←	←	←	←	7.0 15.4	←
Cam angle	° (degrees)	←	←	←	←	47 417 126 337	←

Recommendation: At sea level, chaincase ratio: 23/43, sprocket 23 teeth, large, (P/N 504 085 400).

▼ CAUTION

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

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		350 340	350 340	350 340	350 340	350 340	350 340	PTO MAG
Jet needle		←	←	←	←	7ECY1		2
Needle position		←	←	←	←	2	←	—
Slide cut-away		←	←	←	←	2.5	←	2
Pilot jet		←	←	←	←	55	←	2
Air screw		←	←	←	←	1.75	←	—
Valve seat		←	←	←	←	1.5	←	2
Needle jet		←	←	←	←	AA-8 (224)	←	2
Float level	mm	←	←	←	←	22.9	←	—
Idle	RPM ± 200	←	←	←	←	1700	←	—
Idle throttle valve position	mm	1.90	2.10	2.20	2.30	2.40	2.50	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 40°C - 40°F	370 360	←	←	←	←	←	PTO MAG
- 30°C - 20°F	360 350	←	←	←	←	←	PTO MAG
- 20°C - 4°F	350 340	←	←	←	←	←	**PTO MAG**
- 10°C 14°F	350 340	←	←	←	←	←	PTO MAG
0°C 32°F	350 340	←	←	←	←	←	PTO MAG
10°C 50°F	350 340	←	←	←	←	←	PTO MAG
20°C 70°F	350 340	←	←	←	←	←	PTO MAG

SEA LEVEL KIT (P/N 861 770 900)

DRIVE PULLEY (Both Models)

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	←	←	←	←	Green/Blue 414 768 200	←
Ramp	←	←	←	←	417 005 294	←
Pin	←	Qty 3 x 1 417 004 308	←	←	Qty 3 x 1 417 004 309	←
Engagement RPM ± 100	←	4000	←	←	4200	←

Summit 600 Only

Calibration screw position	4	5	3	4	5	6
Maximum RPM ± 100	←	←	←	←	8000	←

Summit 500 Only

Calibration screw position	3	4	2	3	4	5
Maximum RPM ± 100	←	←	←	←	7800	←

DRIVEN PULLEY (Both Models)

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		←	←	←	←	Beige 414 558 900	←
Spring tension	Kg ± 0.7 lb ± 1.5	←	←	←	←	7.0 15.4	←

Summit 600 Only

Cam angle	° (degrees)	←	←	←	←	47 417 126 337	←

Summit 500 Only

Cam angle	° (degrees)	←	←	←	←	44 417 126 333	←

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

Additional information: On Summit 600, use a 23 teeth sprocket (P/N 504 085 400) at sea level to obtain a chain case ratio of 23/43.

▼ CAUTION

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

CARBURATION (Summit 600)

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		←	←	←	←	280	←	2
Jet needle		←	←	←	←	7DFY1	←	2
Needle position		←	←	←	←	3	←	—
Slide cut-away		←	←	←	←	2.5	←	2
Pilot jet		←	←	←	←	37.5	←	2
Air screw		←	←	←	←	0.5	←	2
Valve seat		←	←	←	←	1.5 (V)	←	2
Needle jet		←	←	←	←	Z-9 (224)	←	2
Float level	mm	←	←	←	←	22.9	←	—
Idle	RPM ± 200	←	←	←	←	1600	←	—
Idle throttle valve position	mm	←	←	←	←	1.7	←	—

CARBURATION (Summit 500)

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		←	←	←	←	PTO 350 MAG 330	←	2
Jet needle		←	←	←	←	6DHY48	←	2
Needle position		←	←	←	←	4	←	—
Slide cut-away		←	←	←	←	2.5	←	2
Pilot jet		←	←	←	←	75	←	2
Air screw		←	←	←	←	2.00	←	2
Valve seat		←	←	←	←	1.5 (V)	←	2
Needle jet		←	←	←	←	Q-6 (480)	←	2
Float level	mm	←	←	←	←	18.1	←	—
Idle	RPM ± 200	←	←	←	←	1800	←	—
Idle throttle valve position	mm	←	←	←	←	2.2	←	—

MAIN JET CHART (Summit 600)

Altitude / Temperature	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
- 40°C - 40°F	←	←	←	←	300	←	PTO MAG
- 30°C - 20°F	←	←	←	←	290	←	PTO MAG
- 20°C - 4°F	←	←	←	←	**280**	←	PTO MAG
- 10°C 14°F	←	←	←	←	280	←	PTO MAG
0°C 32°F	←	←	←	←	280	←	PTO MAG
10°C 50°F	←	←	←	←	280	←	PTO MAG
20°C 70°F	←	←	←	←	280	←	PTO MAG

MAIN JET CHART (Summit 500)

Altitude / Temperature	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
- 40°C - 40°F	←	←	←	←	350 330	←	PTO MAG
- 30°C - 20°F	←	←	←	←	350 330	←	PTO MAG
- 20°C - 4°F	←	←	←	←	**350 330**	←	PTO MAG
- 10°C 14°F	←	←	←	←	350 330	←	PTO MAG
0°C 32°F	←	←	←	←	350 330	←	PTO MAG
10°C 50°F	←	←	←	←	350 330	←	PTO MAG
20°C 70°F	←	←	←	←	350 330	←	PTO MAG

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

HIGH ALTITUDE TECHNICAL DATA - 1998 MODELS

1998 - SKANDIC SWT

HIGH ALTITUDE KIT (P/N 861 764 300)

DRIVE PULLEY

Clutching \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Red/Yellow 414 817 500	←	Red/Blue 414 691 500	←	←	←
Ramp	Qty 3 x 1 417 005 146	←	←	←	←	←
Calibration screw position	4	5	2	3	4	5
Pin	Qty 3 x 1 417 004 309	←	←	←	←	←
Engagement RPM ± 100	2300	←	←	2800	←	←
Maximum RPM ± 100	6500	←	←	←	←	←

DRIVEN PULLEY

Clutching \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Blue A C S 3 - 188	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	6.0 13.2	←	←	←	←	←
Cam angle	° (degrees)	40	←	←	←	←	←

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.

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		230	220	200	180	170	160	1
Jet needle		6DH8	←	←	←	←	←	1
Needle position		4	←	←	3	←	←	—
Slide cut-away		3.0	←	←	←	←	←	1
Pilot jet		25	←	←	←	←	←	1
Air screw		1.5	←	←	0.75	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		O-0 (159)	←	←	←	←	←	1
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM ± 200	1650	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	←	1.6	1.7	1.8	1.9	—

MAIN JET CHART

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

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

HIGH ALTITUDE KIT (P/N 861 764 200)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Yellow/Orange 414 689 700	←	←	Blue/Green 414 817 700	←	←
Ramp	Qty 3 x 1 417 005 290	←	←	←	←	←
Calibration screw position	4	5	6	2	3	4
Pin	Qty 3 x 1 417 004 309	←	←	←	←	←
Engagement RPM ± 100	2800	←	←	3100	←	←
Maximum RPM ± 100	6800	←	←	←	←	←

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Blue A C S 3 - 188	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	40	←	←	←	←	←

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.

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		210	200	190	180	170	160	2
Jet needle		6DH2	←	←	←	←	←	2
Needle position		3	←	←	2	←	←	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		40	←	←	←	←	←	2
Air screw		1.5	←	←	0.75	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-4 (159)	←	←	←	←	←	2
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM ± 200	1650	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	←	1.6	1.7	1.8	1.9	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
- 40°C - 40°F	230	220	210	200	190	180	2
- 30°C - 20°F	220	210	200	190	180	170	2
- 20°C - 4°F	**210**	**200**	**190**	**175**	**165**	**155**	**2**
- 10°C 14°F	205	190	180	170	160	150	2
0°C 32°F	200	190	180	165	155	145	2
10°C 50°F	190	180	170	160	150	140	2
20°C 70°F	180	170	160	150	140	130	2

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

HIGH ALTITUDE KIT (P/N 861 764 100)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Yellow/Blue 414 818 000	←	Red/Red 414 689 800	←	←	←
Ramp	Qty 3 x 1 417 005 290	←	←	←	←	←
Calibration screw position	4	5	3	4	5	6
Pin	Qty 3 x 1 417 004 308	←	Qty 3 x 1 417 004 309	←	←	←
Engagement RPM ± 100	2500	←	←	←	←	←
Maximum RPM ± 100	7000	←	←	←	←	←

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Blue A C S 3 - 188	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	40	←	←	←	←	←

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.

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		250 220	230 200	210 180	200 170	190 160	180 150	PTO MAG
Jet needle		6DH4	←	←	←	←	←	2
Needle position		2	←	←	1	←	←	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		30	←	←	←	←	←	2
Air screw		1.0	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-2 (159)	←	←	←	←	←	2
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	1.6	1.7	1.8	1.9	2.0	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 40°C - 40°F	270 240	250 220	230 200	220 190	210 180	200 170	PTO MAG
- 30°C - 20°F	260 230	240 210	220 190	210 180	200 170	190 160	PTO MAG
- 20°C - 4°F	**250 220**	**230 200**	**210 180**	**200 170**	**190 160**	**180 150**	**PTO MAG**
- 10°C 14°F	240 210	220 190	200 170	190 160	180 150	170 140	PTO MAG
0°C 32°F	230 200	210 180	190 160	180 150	170 140	160 130	PTO MAG
10°C 50°F	220 190	200 170	180 150	170 140	160 130	150 120	PTO MAG
20°C 70°F	210 180	190 160	170 140	160 130	150 120	140 110	PTO MAG

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

HIGH ALTITUDE KIT (P/N 861 764 000)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Turquoise 417 115 900	←	Yellow/Green 417 118 500	←	←	←
Block	Qty 3 x 1 417 114 300	←	Qty 3 x 1 417 115 700	←	←	←
Weight	—	←	Qty 3 x 3 417 115 800	Qty 3 x 2 ←	Qty 3 x 2 ←	Qty 3 x 1 ←
Capsule	Qty 2 x 3 417 114 500	←	←	←	←	←
Engagement RPM ± 100	3100	←	←	←	←	←
Maximum RPM ± 100	6900	←	←	←	←	←

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Yellow 415 094 300	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	0.00 Position1 0.00	←	←	←	←	←
Cam angle	° (degrees)	37.8 417 124 100	←	←	←	←	←

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.

CARBURATION

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

MAIN JET CHART

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

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

HIGH ALTITUDE KIT (P/N 861 763 900)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Turquoise 417 115 900	←	Blue 417 115 600	←	←	←
Block	Qty 3 x 1 417 114 300	←	Qty 3 x 1 417 115 700	←	←	←
Weight	---	←	Qty 3 x 3 417 115 800	Qty 3 x 2 ←	Qty 3 x 2 ←	Qty 3 x 1 ←
Capsule	417 114 500	←	←	←	←	←
Engagement RPM ± 100	3100	←	←	←	←	←
Maximum RPM ± 100	6900	←	←	←	←	←

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		White 414 509 900	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	3.6 7.9	←	5.9 13.0	←	←	←
Cam angle	° (degrees)	37.8 504 081 300	←	←	←	←	←

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.

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		190	185	175	140	130	125	1
Jet needle		6DH4	←	←	←	←	←	1
Needle position		2	←	←	←	←	←	—
Slide cut-away		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 ± 200	1200	←	←	←	←	←	—
Idle throttle valve position	mm	1.3	←	←	←	←	←	—

MAIN JET CHART

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

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

HIGH ALTITUDE KIT (P/N 861 763 800)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Green/Green on Violet 417 009 500	←	Red/Blue on Violet 417 118 400	←	←	←
Block	417 118 100	←	←	←	←	←
Weight	Qty 3 x 1 417 120 400	←	Qty 3 x 5 417 114 400	Qty 3 x 4 ←	Qty 3 x 3 ←	Qty 3 x 2 ←
Capsule	Qty 3 x 1 417 114 500	←	←	←	←	←
Engagement RPM ± 100	2500	←	3100	←	←	←
Maximum RPM ± 100	6900	←	←	←	←	←

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Orange 414 505 800	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	4.8 10.6	←	←	←	←	←
Cam angle	° (degrees)	44 504 096 000	←	←	←	←	←

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.

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 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	←	←	←	←	←	2
Air screw		1.25	←	←	.5 1.0	←	←	PTO MAG
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-0 (159)	←	←	O-8 (159)	←	←	2
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM ± 200	1650	←	←	←	←	←	—
Idle throttle valve position	mm	1.3	←	←	1.6	←	←	—

MAIN JET CHART

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

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

HIGH ALTITUDE KIT (P/N 861 763 700)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Red/Yellow 414 817 500	←	Yellow/Green 414 742 100	←	←	←
Ramp	Qty 3 x 1 417 005 291	←	Qty 3 x 1 417 005 292	←	←	←
Calibration screw position	3	4	2	3	4	5
Pin	Qty 3 x 1 417 004 309	←	←	←	←	←
Engagement RPM ± 100	2900	←	3300	←	←	←
Maximum RPM ± 100	7000	←	←	←	←	←

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Orange 414 505 800	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	4.8 10.6	←	5.5 12.1	←	←	←
Cam angle	° (degrees)	44 504 096 000	←	←	←	←	←

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.

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		180 170	170 160	160 150	150 140	140 130	130 120	PTO MAG
Jet needle		6DH2	←	←	←	←	←	2
Needle position		3	←	←	2	←	←	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		40	←	←	45	←	←	2
Air screw		1.88	←	←	1.5	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-0 (159)	←	←	←	←	←	2
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM ± 200	1650	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	←	1.6	1.7	1.8	1.85	—

MAIN JET CHART

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

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

HIGH ALTITUDE KIT (P/N 861 763 600)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Green/Green on Violet 417 009 500	←	Red/Blue on Violet 417 118 400	←	←	←
Block	417 118 100	←	←	←	←	←
Weight	Qty 3 x 1 417 120 400	←	Qty 3 x 5 417 114 400	Qty 3 x 4 ←	Qty 3 x 3 ←	Qty 3 x 2 ←
Capsule	Qty 3 x 1 417 114 500	←	←	←	←	←
Engagement RPM ± 100	2500	←	3100	←	←	←
Maximum RPM ± 100	6900	←	←	←	←	←

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Orange 414 505 800	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	4.8 10.6	←	←	←	←	←
Cam angle	° (degrees)	44 504 096 000	←	←	←	←	←

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.

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 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	←	←	←	←	←	2
Air screw		1.25 1.25	←	←	0.5 1.0	←	←	PTO MAG
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-0 (159)	←	←	O-8 (159)	←	←	2
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM ± 200	1650	←	←	←	←	←	—
Idle throttle valve position	mm	1.3	←	←	1.6	←	←	—

MAIN JET CHART

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

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

HIGH ALTITUDE KIT (P/N 861 763 500)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Red/Blue 414 691 500	←	Yellow/Green 414 742 100	←	←	←
Ramp	Qty 3 x 1 417 005 291	←	Qty 3 x 1 417 005 292	←	←	←
Calibration screw position	2	3	3	4	5	6
Pin	417 004 309	←	←	←	←	←
Engagement RPM ± 100	2900	←	3000	←	←	←
Maximum RPM ± 100	7000	←	←	←	←	←

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Orange 414 505 800	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	4.8 10.6	←	←	←	←	←
Cam angle	° (degrees)	44 504 096 000	←	←	←	←	←

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.

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		200 190	190 180	180 170	170 160	160 150	150 140	PTO MAG
Jet needle		6DH2	←	←	←	←	←	2
Needle position		3	←	←	2	←	1	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		35	←	←	←	←	←	2
Air screw		1.50	←	←	1.00	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-0(159)	←	←	←	←	←	2
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM ± 200	1650	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	←	1.6	1.7	1.8	1.9	—

MAIN JET CHART

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

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

HIGH ALTITUDE KIT (P/N 861 763 400)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Red/Yellow 414 817 500	←	Yellow/Green 414 742 100	←	←	←
Ramp	Qty 3 x 1 417 005 291	←	Qty 3 x 1 417 005 292	←	←	←
Calibration screw position	3	4	2	3	4	5
Pin	Qty 3 x 1 417 004 309	←	←	←	←	←
Engagement RPM ± 100	2900	←	3300	←	←	←
Maximum RPM ± 100	7000	←	←	←	←	←

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring		Yellow 415 092 800	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	0.00 Position 1 0.00	←	←	←	←	←
Cam angle	° (degrees)	47 - 44 417 122 800	←	←	←	←	←

ELECTRONIC REVERSE

	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Reverse connector	515 174 800	←	←	←	515 174 700	←

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.

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		180 170	170 160	160 150	150 140	140 130	130 120	PTO MAG
Jet needle		6DH2	←	←	←	←	←	2
Needle position		3	←	←	←	←	←	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		40	←	←	45	←	←	2
Air screw		1.88	←	←	0.750	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-0 (159)	←	←	←	←	←	2
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM ± 200	1650	←	←	1550	←	←	—
Idle throttle valve position	mm	1.5	1.8	2.1	2.4	2.5	2.6	—

MAIN JET CHART

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

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

HIGH ALTITUDE KIT (P/N 861 763 300)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Blue/Green 414 817 700	←	←	Blue/Blue 414 689 400	←	←
Ramp	417 005 228	←	←	←	←	←
Calibration screw position	3	4	5	4	5	6
Pin	417 004 309	←	←	←	←	←
Engagement RPM ± 100	3600	←	←	←	←	←
Maximum RPM ± 100	7800	←	←	←	←	←

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Beige 414 558 900	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	44 504 096 000	←	←	←	←	←

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

Additional information: At 1800 m/6000 ft, change 2 Rave Valve springs, using P/N 420 239 946.

▼ CAUTION

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

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		300 280	280 260	260 240	240 210	220 200	200 180	PTO MAG
Jet needle		6DGY9	←	←	←	←	←	2
Needle position		2	←	←	1	←	←	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		50	←	←	55	←	←	2
Air screw		2.0	←	←	2.25	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		Q-3 (480)	←	←	←	←	←	2
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.80	←	←	←	←	←	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 40°C - 40°F	320 300	300 280	280 260	260 230	240 220	220 200	PTO MAG
- 30°C - 20°F	310 290	290 270	270 250	250 220	230 210	210 190	PTO MAG
- 20°C - 4°F	**300 280**	**280 260**	**260 240**	**240 210**	**220 200**	**200 180**	**PTO MAG**
- 10°C 14°F	290 270	270 250	250 230	230 200	210 190	190 170	PTO MAG
0°C 32°F	280 260	260 240	240 220	220 190	200 180	180 160	PTO MAG
10°C 50°F	270 250	250 230	230 210	210 180	190 170	170 150	PTO MAG
20°C 70°F	260 240	240 220	220 200	200 170	180 160	160 140	PTO MAG

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

HIGH ALTITUDE KIT (P/N 861 763 200)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Spring	Red/Orange 415 015 200	←	←	Violet/Blue 415 034 900	←	←	1
Ramp	Qty 3 x 1 417 005 285	←	←	Qty 3 x 1 417 005 289	←	←	3
Calibration screw position	3	4	5	4	5	6	—
Pin	417 004 309	←	←	←	←	←	3
Engagement RPM ± 100	3100	←	←	4200	←	←	—
Maximum RPM ± 100	7900	←	←	←	←	←	—

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Beige 414 558 900	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	47 504 140 900	←	←	←	←	←

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

Additional information: Unscrew Rave Valve adjuster screws approximately three (3) turns at 2400 m/8000 ft.

CAUTION

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

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		270 260	250 240	230 220	210 200	195 185	180 170	PTO MAG
Jet needle		6DEY4	←	←	←	←	←	2
Needle position		2	←	←	1	←	←	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		50	←	←	←	←	←	2
Air screw		2.0	1.75	1.5	←	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-7 (480)	←	←	P-5 (480)	←	P-4 (480)	2
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	2.00	2.10	2.20	2.30	2.40	2.50	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 40°C - 40°F	290 280	270 260	250 240	230 220	210 200	195 185	PTO MAG
- 30°C - 20°F	280 270	260 250	240 230	220 210	200 195	185 175	PTO MAG
- 20°C - 4°F	**270 260**	**250 240**	**230 220**	**210 200**	**195 185**	**175 170**	**PTO MAG**
- 10°C 14°F	260 250	240 230	220 210	200 195	180 170	155 150	PTO MAG
0°C 32°F	250 240	230 220	210 200	195 185	170 165	150 145	PTO MAG
10°C 50°F	240 230	220 210	200 195	185 180	165 160	145 140	PTO MAG
20°C 70°F	230 220	210 200	195 185	180 170	160 150	140 130	PTO MAG

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

HIGH ALTITUDE KIT (P/N 861 763 100)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Blue/Violet 414 817 800	←	←	Yellow/Green 414 742 100	←	←
Ramp	Qty 3 x 1 417 005 286	←	←	←	←	←
Calibration screw position	3	4	5	3	4	5
Pin	Qty 3 x 1 417 004 308	←	←	Qty 3 x 1 417 004 309	←	←
Engagement RPM ± 100	3600	←	←	←	←	←
Maximum RPM ± 100	7900	←	←	←	←	←

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Beige 414 558 900	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	47 504 140 900	←	←	←	←	←

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.

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
Main jet		310 300 310	290 280 290	260 250 260	240 230 240	210 200 210	190 180 190	PTO CTR MAG
Jet needle		6DEH5 Qty 3 x 1	←	←	←	←	←	—
Needle position		3	←	←	2	←	←	—
Slide cut-away		2.5	←	←	←	←	←	—
Pilot jet		50	←	←	←	←	←	—
Air screw		2.50	1.75	1.50	1.25	1.00	←	—
Valve seat		1.5	←	←	←	←	←	—
Needle jet		P-1 (480)	←	←	P-0 (480)	←	O-9 (480)	—
	Starter jet	1.50	←	←	←	←	←	—
Idle	RPM ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.20	1.40	1.60	1.80	2.00	2.20	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 40°C - 40°F	330 320 330	300 290 300	280 270 280	250 240 250	230 220 230	200 190 200	PTO CTR MAG
- 30°C - 20°F	320 310 320	290 280 290	270 260 270	240 230 240	220 210 220	195 185 195	PTO CTR MAG
- 20°C - 4°F	**310 300 310**	290 280 290	260 250 260	240 230 240	210 200 210	190 180 190	**PTO CTR MAG**
- 10°C 14°F	300 290 300	280 270 280	250 240 250	230 220 230	200 195 200	180 175 180	PTO CTR MAG
0°C 32°F	290 280 290	270 260 270	240 230 240	220 210 220	195 190 195	175 170 175	PTO CTR MAG
10°C 50°F	270 260 270	250 240 250	230 220 230	210 200 210	185 175 185	160 155 160	PTO CTR MAG
20°C 70°F	260 250 260	240 230 240	220 210 220	200 190 200	180 170 180	155 150 155	PTO CTR MAG

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

Additional information: Unscrew Rave Valve cover approximately 3 turns.

HIGH ALTITUDE KIT (P/N 861 763 000)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Blue/Pink 414 916 300	←	Violet/Violet 414 817 900	←	←	←
Ramp	Qty 3 x 1 417 005 286	←	Qty 3 x 1 417 005 285	←	←	←
Calibration screw position	2	3	2	3	4	5
Pin	Qty 3 x 1 417 004 308	←	Qty 3 x 1 417 004 309	←	←	←
Engagement RPM ± 100	3600	←	4300	←	←	←
Maximum RPM ± 100	8500	←	←	←	←	←

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Beige 414 558 900	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	47 504 140 900	←	←	←	←	←

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.

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		300	←	←	←	←	←	3
Jet needle		6DEY2	←	←	←	←	←	3
Needle position		4	←	←	←	←	←	—
Slide cut-away		2.5	←	←	←	←	←	3
Pilot jet		50	←	←	←	←	←	3
Air screw		2.00	←	←	←	←	←	3
Valve seat		1.5	←	←	←	←	←	3
Needle jet		P-9 (480)	←	←	←	←	←	3
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.20	←	←	←	←	←	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
- 40°C - 40°F	300	←	←	←	←	←	3
- 30°C - 20°F	300	←	←	←	←	←	3
- 20°C - 4°F	**300**	←	←	←	←	←	**3**
- 10°C 14°F	300	←	←	←	←	←	3
0°C 32°F	300	←	←	←	←	←	3
10°C 50°F	300	←	←	←	←	←	3
20°C 70°F	300	←	←	←	←	←	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 861 762 500)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Blue/Yellow 414 689 500	←	Blue/Green 414 817 700	←	←	←
Ramp	Qty 3 x 1 417 005 291	←	Qty 3 x 1 417 005 292	←	←	←
Calibration screw position	3	4	2	3	4	5
Pin	Qty 3 x 1 417 004 309	←	←	←	←	←
Engagement RPM ± 100	3700	←	←	←	←	←
Maximum RPM ± 100	7000	←	←	←	←	←

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Orange 415 505 800	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	6.1 13.4	←	←	←	←	←
Cam angle	° (degrees)	47 504 140 900	←	←	←	←	←

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.

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		205 195	190 180	180 170	170 160	160 150	150 140	PTO MAG
Jet needle		6DH2	←	←	←	←	←	2
Needle position		3	←	←	2	←	←	—
Slide cut-away		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 ± 200	1650	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	←	1.6	1.7	1.8	1.9	—

MAIN JET CHART

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

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

HIGH ALTITUDE KIT (P/N 861 762 300)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Violet/Yellow 415 015 300	←	←	Green/Blue 414 768 200	←	←
Ramp	417 005 281	←	←	←	←	←
Calibration screw position	2	3	4	4	5	6
Pin	417 004 309	←	←	←	←	←
Engagement RPM ± 100	4100	←	←	4300	←	←
Maximum RPM ± 100	7800	←	←	←	←	←

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Beige 415 558 900	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	50° 504 096 100	←	←	←	←	←

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

Additional information: At 1800 m/6000 ft, change 2 Rave Valve springs, using P/N 420 239 946.

▼ CAUTION

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

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		300 280	280 260	260 240	240 210	220 200	200 180	PTO MAG
Jet needle		6DGY9	←	←	←	←	←	2
Needle position		3	←	←	2	←	←	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		50	←	←	←	←	←	2
Air screw		2.5	←	←	2.0	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		Q-4 (480)	←	←	←	←	←	2
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.8	1.9	2.0	2.1	2.2	2.3	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 40°C - 40°F	320 300	300 280	280 260	260 230	240 220	220 200	PTO MAG
- 30°C - 20°F	310 290	290 270	270 250	250 220	230 210	210 190	PTO MAG
- 20°C - 4°F	**300 280**	**280 260**	**260 240**	**240 210**	**220 200**	**200 180**	**PTO MAG**
- 10°C 14°F	290 270	270 250	250 230	230 200	210 190	190 170	PTO MAG
0°C 32°F	280 260	260 240	240 220	220 190	200 180	180 160	PTO MAG
10°C 50°F	270 250	250 230	230 210	210 180	190 170	170 150	PTO MAG
20°C 70°F	260 240	240 220	220 200	200 170	180 160	160 140	PTO MAG

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

HIGH ALTITUDE KIT (P/N 861 762 200)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Green/Blue 414 768 200	←	←	←	←	←
Ramp	Qty 3 x 1 417 005 286	←	←	Qty 3 x 1 417 005 289	←	←
Calibration screw position	3	4	5	2	3	4
Pin	Qty 3 x 1 417 004 309	←	←	←	←	←
Engagement RPM ± 100	4400	←	←	4500	←	←
Maximum RPM ± 100	7900	←	←	←	←	←

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Beige 414 558 900	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	50 504 096 100	←	←	←	←	←

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

Additional information: Unscrew Rave Valve adjuster screws approximately three (3) turns at 2400 m/8000 ft.

▼ CAUTION

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

CARBURATION

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

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 40°C - 40°F	310 290	280 260	250 230	230 210	210 190	190 170	PTO MAG
- 30°C - 20°F	290 270	270 250	240 220	220 200	200 180	180 160	PTO MAG
- 20°C - 4°F	**280 260**	**260 240**	**230 210**	**210 190**	**190 170**	**170 150**	**PTO MAG**
- 10°C 14°F	270 250	250 230	220 200	200 180	180 165	165 145	PTO MAG
0°C 32°F	250 230	240 220	210 195	195 175	175 155	155 140	PTO MAG
10°C 50°F	240 220	230 210	200 185	185 165	170 150	155 135	PTO MAG
20°C 70°F	230 210	220 190	195 175	175 160	160 145	145 130	PTO MAG

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

HIGH ALTITUDE KIT (P/N 861 762 100)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Violet/Yellow 415 015 300	←	←	←	←	←
Ramp	Qty 3 x 1 417 005 286	←	←	←	←	←
Calibration screw position	3	4	5	4	5	6
Pin	Qty 3 x 1 417 004 308	←	←	Qty 3 x 1 417 004 309	←	←
Engagement RPM ± 100	3800	←	←	4500	←	←
Maximum RPM ± 100	7700	←	←	←	←	←

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Beige 414 558 900	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	50 504 096 100	←	←	←	←	←

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

Additional information: Unscrew Rave Valve adjuster screws approximately three (3) turns at 2400 m/8000 ft.

▼ CAUTION

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

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		310 290	290 270	260 240	240 220	210 200	190 175	PTO MAG
Jet needle		7EDY1	←	←	←	←	←	2
Needle position		3	←	←	2	←	←	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		60	←	←	←	←	←	2
Air screw		2.25	←	2.0	1.75	1.5	1.25	—
Valve seat		1.5	←	←	←	←	←	2
Float level	mm	18.1	←	←	←	←	←	—
Needle jet		AA-3 (224)	←	←	AA-1 (224)	←	AA-0 (224)	2
Idle	RPM ± 200	1700	←	←	←	←	←	—
Idle throttle valve position	mm	2.10	2.15	2.25	2.40	2.55	2.65	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 40°C - 40°F	330 310	310 290	280 260	260 240	230 210	210 190	PTO MAG
- 30°C - 20°F	320 300	300 280	270 250	250 230	220 200	200 180	PTO MAG
- 20°C - 4°F	**310 290**	**290 270**	**260 240**	**240 220**	**210 200**	**190 175**	**PTO MAG**
- 10°C 14°F	300 280	280 260	250 230	230 210	200 190	185 170	PTO MAG
0°C 32°F	290 270	270 250	240 220	220 200	195 185	175 160	PTO MAG
10°C 50°F	270 250	250 240	230 210	210 195	185 175	170 155	PTO MAG
20°C 70°F	260 240	240 230	220 200	200 185	185 170	160 150	PTO MAG

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

HIGH ALTITUDE KIT (P/N 861 762 000)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Red/Blue on Violet 417 118 400	←	←	←	←	←
Block	Qty 3 x 1 417 118 100	←	←	←	←	←
Weight	Qty 3 x 1 417 120 400	←	Qty 3 x 5 417 114 400	Qty 3 x 4 ←	Qty 3 x 3 ←	Qty 3 x 2 ←
Capsule	Qty 3 x 1 417 114 500	←	←	←	←	←
Engagement RPM ± 100	3500	←	←	←	←	←
Maximum RPM ± 100	6900	←	←	←	←	←

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Orange 414 505 800	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	4.8 10.6	←	←	←	←	←
Cam angle	° (degrees)	44 504 096 000	←	←	←	←	←

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.

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 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	←	←	←	←	←	2
Air screw		1.25 1.25	←	←	.5 1.0	←	←	PTO MAG
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-0 (159)	←	←	O-8 (159)	←	←	2
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM ± 200	1650	←	←	←	←	←	—
Idle throttle valve position	mm	1.3	←	←	1.6	←	←	—

MAIN JET CHART

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

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

HIGH ALTITUDE KIT (P/N 861 761 900)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Yellow/Red 414 993 000	←	Blue/Yellow 414 689 500	←	←	←
Ramp	Qty 3 417 005 291	←	Qty 3 417 005 292	←	←	←
Calibration screw position	3	4	2	3	4	5
Pin	Qty 3 417 004 309	←	←	←	←	←
Engagement RPM ± 100	3300	←	3600	←	←	←
Maximum RPM ± 100	7000	←	←	←	←	←

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Orange 414 505 800	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	4.8 10.6	←	←	←	←	←
Cam angle	° (degrees)	44 504 096 000	←	←	←	←	←

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.

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		180 170	170 160	160 150	150 140	140 130	130 120	PTO MAG
Jet needle		6DH2	←	←	←	←	←	2
Needle position		3	←	←	2	←	←	—
Slide cut-away		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 ± 200	1650	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	←	1.6	1.7	1.8	1.85	—

MAIN JET CHART

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

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

HIGH ALTITUDE KIT (P/N 861 761 800)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Violet/Blue 415 034 900	←	←	←	←	←
Ramp	Qty 3 x 1 417 005 286	←	←	Qty 3 x 1 417 005 281	←	←
Calibration screw position	2	3	4	4	5	6
Pin	Qty 3 x 1 417 004 309	←	←	←	←	←
Engagement RPM ± 100	3800	←	←	←	←	←
Maximum RPM ± 100	7800	←	←	←	←	←

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Beige 414 558 900	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	50° 504 096 100	←	←	←	←	←

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

Additional information: At 1800 m/6000 ft, change 2 Rave Valve springs, using P/N 420 239 946.

▼ CAUTION

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

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		300 280	280 260	260 240	240 210	220 200	200 180	PTO MAG
Jet needle		6DGY9	←	←	←	←	←	2
Needle position		2	←	←	1	←	←	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		50	←	←	55	←	←	2
Air screw		2.00	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		Q-3 (480)	←	←	←	←	←	2
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.80	1.90	2.00	2.10	2.20	2.30	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 40°C - 40°F	320 300	300 280	280 260	260 230	240 220	220 200	PTO MAG
- 30°C - 20°F	310 290	290 270	270 250	250 220	230 210	210 190	PTO MAG
- 20°C - 4°F	**300 280**	**280 260**	**260 240**	**240 210**	**220 200**	**200 180**	**PTO MAG**
- 10°C 14°F	290 270	270 250	250 230	230 200	210 190	190 170	PTO MAG
0°C 32°F	280 260	260 240	240 220	220 190	200 180	180 160	PTO MAG
10°C 50°F	270 250	250 230	230 210	210 180	190 170	170 150	PTO MAG
20°C 70°F	260 240	240 220	220 200	200 170	180 160	160 140	PTO MAG

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

HIGH ALTITUDE KIT (P/N 861 761 600)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Violet/Blue 415 034 900	←	←	←	←	←
Ramp	Qty 3 x 1 417 005 286	←	←	Qty 3 x 1 417 005 289	←	←
Calibration screw position	3	4	5	3	4	5
Pin	417 004 309	←	←	←	←	←
Engagement RPM ± 100	4100	←	←	←	←	←
Maximum RPM ± 100	7900	←	←	←	←	←

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Beige 414 558 900	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	50 504 096 100	←	←	←	←	←

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

Additional information: Unscrew Rave Valve adjuster screws approximately three (3) turns at 2400 m/8000 ft.

▼ CAUTION

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

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		270 260	250 240	230 220	210 200	195 185	180 170	PTO MAG
Jet needle		6DEY4	←	←	←	←	←	2
Needle position		2	←	←	1	←	←	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		50	←	←	←	←	←	2
Air screw		2.00	1.75	1.50	←	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-7 (480)	←	←	P-5 (480)	←	P-4 (480)	2
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	2.00	2.10	2.20	2.30	2.40	2.50	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 40°C - 40°F	290 280	270 260	250 240	230 220	210 200	195 185	PTO MAG
- 30°C - 20°F	280 270	260 250	240 230	220 210	200 195	185 175	PTO MAG
- 20°C - 4°F	**270 260**	**250 240**	**230 220**	**210 200**	**195 185**	**175 170**	**PTO MAG**
- 10°C 14°F	260 250	240 230	220 210	200 195	180 170	155 150	PTO MAG
0°C 32°F	250 240	230 220	210 200	195 185	170 165	150 145	PTO MAG
10°C 50°F	240 230	220 210	200 195	185 180	165 160	145 140	PTO MAG
20°C 70°F	230 220	210 200	195 185	180 170	160 150	140 130	PTO MAG

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

HIGH ALTITUDE KIT (P/N 861 761 500)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Violet/Blue 415 034 900	←	←	←	←	←
Ramp	Qty 3 x 1 417 005 286	←	←	Qty 3 x 1 417 005 289	←	←
Calibration screw position	3	4	5	3	4	5
Pin	417 004 309	←	←	←	←	←
Engagement RPM ± 100	4100	←	←	←	←	←
Maximum RPM ± 100	7900	←	←	←	←	←

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Beige 414 558 900	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	50 504 096 100	←	←	←	←	←

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

Additional information: Unscrew Rave Valve adjuster screws approximately three (3) turns at 2400 m/8000 ft.

▼ CAUTION

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

CARBURATION

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

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 40°C - 40°F	310 290	280 260	250 230	230 210	210 190	190 170	PTO MAG
- 30°C - 20°F	290 270	270 250	240 220	220 200	200 180	180 160	PTO MAG
- 20°C - 4°F	**280 260**	**260 240**	**230 210**	**210 190**	**190 170**	**170 150**	**PTO MAG**
- 10°C 14°F	270 250	250 230	220 200	200 180	180 165	165 145	PTO MAG
0°C 32°F	250 230	240 220	210 195	195 175	175 155	155 140	PTO MAG
10°C 50°F	240 220	230 210	200 185	185 165	170 150	155 135	PTO MAG
20°C 70°F	230 210	220 190	195 175	175 160	160 145	145 130	PTO MAG

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

HIGH ALTITUDE KIT (P/N 861 761 400)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Violet/Yellow 415 015 300	←	←	←	←	←
Ramp	417 005 286	←	←	←	←	←
Calibration screw position	3	4	5	4	5	6
Pin	Qty 3 x 1 417 004 308	←	←	Qty 3 x 1 417 004 309	←	←
Engagement RPM ± 100	3800	←	←	4500	←	←
Maximum RPM ± 100	7700	←	←	←	←	←

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Beige 414 558 900	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	50 504 096 100	←	←	←	←	←

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

Additional information: Unscrew Rave Valve adjuster screws approximately three (3) turns at 2400 m/8000 ft.

▼ CAUTION

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

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		310 290	290 270	260 240	240 220	210 200	190 175	PTO MAG
Jet needle		7EDY1	←	←	←	←	←	2
Needle position		3	←	←	2	←	←	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		60	←	←	←	←	←	2
Air screw		2.25	←	2.00	1.75	1.50	1.25	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		AA-3 (224)	←	←	AA-1 (224)	←	AA-0 (224)	2
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM ± 200	1700	←	←	←	←	←	—
Idle throttle valve position	mm	2.10	2.15	2.25	2.40	2.55	2.65	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 40°C - 40°F	330 310	310 290	280 260	260 240	230 210	210 190	PTO MAG
- 30°C - 20°F	320 300	300 280	270 250	250 230	220 200	200 180	PTO MAG
- 20°C - 4°F	**310 290**	**290 270**	**260 240**	**240 220**	**210 200**	**190 175**	**PTO MAG**
- 10°C 14°F	300 280	280 260	250 230	230 210	200 190	185 170	PTO MAG
0°C 32°F	290 270	270 250	240 220	220 200	195 185	175 160	PTO MAG
10°C 50°F	270 250	250 240	230 210	210 195	185 175	170 155	PTO MAG
20°C 70°F	260 240	240 230	220 200	200 185	185 170	160 150	PTO MAG

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

HIGH ALTITUDE KIT (P/N 861 761 200)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Green/Violet 414 762 800	←	←	←	←	←
Ramp	Qty 3 x 1 417 005 285	←	Qty 3 x 1 417 005 281	←	←	←
Calibration screw position	4	5	2	3	4	5
Pin	Qty 3 x 1 417 004 308	←	Qty 3 x 1 417 004 309	←	←	←
Engagement RPM ± 100	3800	←	4500	←	←	←
Maximum RPM ± 100	8500	←	←	←	←	←

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Beige 414 558 900	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	50 504 096 100	←	←	←	←	←

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.

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		290	270	240	220	200	170	3
Jet needle		6DEY4	←	←	←	←	←	3
Needle position		3	←	2	←	←	1	—
Slide cut-away		2.5	←	←	←	←	←	—
Pilot jet		50	←	←	60	←	←	3
Air screw		2.00	←	←	1.50	←	1.00	—
Valve seat		1.5	←	←	←	←	←	3
Needle jet		P-0 (286)	←	←	←	←	←	3
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.20	←	←	←	←	←	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
- 40°C - 40°F	310	290	270	240	220	190	3
- 30°C - 20°F	300	280	250	230	200	180	3
- 20°C - 4°F	**290**	**270**	**240**	**220**	**200**	**170**	**3**
- 10°C 14°F	280	260	240	210	190	170	3
0°C 32°F	270	250	230	210	180	160	3
10°C 50°F	260	240	220	200	180	160	3
20°C 70°F	250	230	210	190	170	150	3

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

HIGH ALTITUDE KIT (P/N 861 761 100)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Green/Blue 414 768 200	←	←	Violet/Blue 415 034 900	←	←
Ramp	Qty 3 x 1 417 005 286	←	←	←	←	←
Calibration screw position	3	4	5	3	4	5
Pin	Qty 3 x 1 417 004 308	←	←	Qty 3 x 1 417 004 309	←	←
Engagement RPM ± 100	4200	←	←	4100	←	←
Maximum RPM ± 100	7900	←	←	←	←	←

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Beige 414 558 900	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	50 504 096 100	←	←	←	←	←

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.

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		310 300 310	290 280 290	260 250 260	240 230 240	210 200 210	190 180 190	PTO CTR MAG
Jet needle		6DEH5	←	←	←	←	←	3
Needle position		3	←	←	2	←	←	—
Slide cut-away		2.5	←	←	←	←	←	—
Pilot jet		50	←	←	←	←	←	3
Air screw		2.50	1.75	1.50	1.25	1.00	←	3
Valve seat		1.5	←	←	←	←	←	3
Needle jet		P-1 (480)	←	←	P-0 (480)	←	O-9 (480)	3
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.20	1.40	1.60	1.80	2.00	2.20	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 40°C - 40°F	330/ 320/330	300/ 290/300	280/ 270/280	250/ 240/250	230/ 220/230	200/ 190/200	PTO/ CTR/MAG
- 30°C - 20°F	320/ 310/320	290/ 280/290	270/ 260/270	240/ 230/240	220/ 210/220	195/ 185/195	PTO/ CTR/MAG
- 20°C - 4°F	**310/ 300/310**	**290/ 280/290**	**260/ 250/260**	**240/ 230/240**	**210/ 200/210**	**190/ 180/190**	**PTO/ CTR/MAG**
- 10°C 14°F	300/ 290/300	280/ 270/280	250/ 240/250	230/ 220/230	200/ 195/200	180/ 175/180	PTO/ CTR/MAG
0°C 32°F	290/ 280/290	270/ 260/270	240/ 230/240	220/ 210/220	195/ 190/195	175/ 170/175	PTO/ CTR/MAG
10°C 50°F	270/ 260/270	250/ 240/250	230/ 220/230	210/ 200/210	185/ 175/185	160/ 155/160	PTO/ CTR/MAG
20°C 70°F	260/ 250/260	240/ 230/240	220/ 210/220	200/ 190/200	180/ 170/180	155/ 150/155	PTO/ CTR/MAG

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

HIGH ALTITUDE KIT (P/N 861 761 000)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Green/Violet 414 762 800	←	←	←	←	←
Ramp	Qty 3 x 1 417 005 286	←	Qty 3 x 1 417 005 285	←	←	←
Calibration screw position	2	3	2	3	4	5
Pin	Qty 3 x 1 417 004 308	←	Qty 3 x 1 417 004 309	←	←	←
Engagement RPM ± 100	4200	←	4700	←	←	←
Maximum RPM ± 100	8300	←	←	←	←	←

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Beige 414 558 900	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	47-50 504 148 300	←	←	←	←	←

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.

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		300	280	250	230	200	180	3
Jet needle		6DEY2	←	←	←	←	←	3
Needle position		4	←	3	←	←	2	—
Slide cut-away		2.5	←	←	←	←	←	3
Pilot jet		50	←	←	60	←	←	3
Air screw		2.00	←	←	1.50	←	1.00	—
Valve seat		1.5	←	←	←	←	←	3
Needle jet		P-9 (480)	←	←	←	←	←	3
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.20	←	←	←	←	←	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
- 40°C - 40°F	320	290	270	240	220	190	3
- 30°C - 20°F	310	290	260	240	210	190	3
- 20°C - 4°F	**300**	**280**	**250**	**230**	**200**	**180**	**3**
- 10°C 14°F	290	270	240	220	200	170	3
0°C 32°F	280	260	240	210	190	170	3
10°C 50°F	270	250	230	210	180	160	3
20°C 70°F	260	240	220	200	180	160	3

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

HIGH ALTITUDE KIT (P/N 861 760 900)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Violet/Green 415 015 400	←	Green/Blue 414 768 200	←	←	←
Ramp	Qty 3 x 1 417 005 286	←	←	←	←	←
Calibration screw position	2	3	2	3	4	5
Pin	Qty 3 x 1 417 004 308	←	Qty 3 x 1 417 004 309	←	←	←
Engagement RPM ± 100	3900	←	4200	←	←	←
Maximum RPM ± 100	8300	←	←	←	←	←

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Beige 414 558 900	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	47-50 504 148 300	←	←	←	←	←

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.

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		330 340 330	300 310 300	280 290 280	250 250 250	220 220 220	200 200 200	PTO CTR MAG
Jet needle		8ABY1-40	←	←	←	←	←	3
Needle position		3	←	2	←	←	1	—
Slide cut-away		2.0	←	←	←	←	←	3
Pilot jet		50	←	←	60	←	←	3
Air screw		4.00	←	3.50	←	3.00	2.00	—
Valve seat		1.5	←	←	←	←	←	3
Needle jet		O-3 (327)	←	←	←	←	←	3
Float level	mm	20.0	←	←	←	←	←	—
Idle	RPM ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.20	←	←	←	←	←	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 40°C - 40°F	350/ 360/350	320/ 330/320	300/ 310/300	270/ 270/270	240/ 240/240	210/ 210/210	PTO/ CTR/MAG
- 30°C - 20°F	340/ 350/340	310/ 320/310	290/ 300/290	260/ 260/260	230/ 230/230	205/ 205/205	PTO/ CTR/MAG
- 20°C - 4°F	**330/ 340/330**	**300/ 310/300**	**280/ 290/280**	**250/ 250/250**	**220/ 220/220**	**200/ 200/200**	**PTO/ CTR/MAG**
- 10°C 14°F	320/ 330/320	290/ 300/290	270/ 280/270	240/ 240/240	220/ 220/220	190/ 190/190	PTO/ CTR/MAG
0°C 32°F	310/ 320/310	290/ 300/290	260/ 270/260	240/ 240/240	210/ 210/210	190/ 190/190	PTO/ CTR/MAG
10°C 50°F	300/ 310/300	280/ 290/280	250/ 260/250	230/ 230/230	210/ 210/210	180/ 180/180	PTO/ CTR/MAG
20°C 70°F	290/ 300/290	270/ 280/270	240/ 250/240	220/ 220/220	200/ 200/200	170/ 170/170	PTO/ 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 861 753 800)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m' 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Spring	Turquoise 417 115 900	←	Blue 417 115 600	←	←	←	1
Block	417 114 300	←	417 115 700	←	←	←	3
Weight	0	←	3 of 417 115 800	2 of ←	2 of ←	1 of ←	x 3
Capsule	417 114 500	←	0	←	←	←	x 2
Engagement RPM ± 100	3100	←	←	←	←	←	—
Maximum RPM ± 100	6900	←	←	←	←	←	—

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		White 414 509 900	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	3.6 7.9	←	5.9 13	←	←	←
Cam angle	° (degrees)	37.8	←	←	←	←	←

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Top sprocket	14	←	←	←	←	←
Bottom sprocket	25	←	←	←	←	←
Chain, quantity of links	62	←	←	←	←	←
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.

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		190	185	175	140	130	125	1
Jet needle		6DH4	←	←	←	←	←	1
Needle position		2	←	←	←	←	←	—
Slide cut-away		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 ± 200	1200	←	←	←	←	←	—
Idle throttle valve position	mm	1.3	←	←	←	←	←	—

MAIN JET CHART

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

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

HIGH ALTITUDE KIT (P/N 861 758 000)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Spring	Blue/Violet 420 817 800	←	Blue/Yellow 414 689 500	←	←	←	1
Ramp	417 005 146	←	←	←	←	←	3
Calibration screw position	3	4	2	3	4	5	—
Pin	417 004 303	←	←	←	←	←	3
Engagement RPM ± 100	3300	←	←	←	←	←	—
Maximum RPM ± 100	6500	←	←	←	←	←	—

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Blue	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	40	←	←	←	←	←

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
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.

CARBURATION

Altitude / Calibration		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		230	220	200	180	170	160	1
Jet needle		6DH8	←	←	←	←	←	1
Needle position		4	←	←	3	←	←	—
Slide cut-away		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 ± 200	1650	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	←	1.6	1.7	18	1.9	—

MAIN JET CHART

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

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

HIGH ALTITUDE KIT (P/N 861 758 100)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Spring	Red/Yellow 414 817 500	←	Red/Blue 414 691 500	←	←	←	1
Ramp	417 005 146	←	←	←	←	←	3
Calibration screw position	4	5	2	3	4	5	—
Pin	417 004 303	←	←	←	←	←	3
Engagement RPM ± 100	2900	←	←	2800	←	←	—
Maximum RPM ± 100	6500	←	←	←	←	←	—

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Blue	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	6.0 13.2	←	←	←	←	←
Cam angle	° (degrees)	40	←	←	←	←	←

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
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.

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		230	220	200	180	170	160	1
Jet needle		6DH8	←	←	←	←	←	1
Needle position		4	←	←	3	←	←	—
Slide cut-away		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 ± 200	1650	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	←	1.6	1.7	1.8	1.9	—

MAIN JET CHART

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

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

HIGH ALTITUDE KIT (P/N 861 760 000)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Spring	Blue/Orange 420 639 000	←	Blue/Pink 414 916 300	←	←	←	1
Ramp	417 005 290	←	←	←	←	←	3
Calibration screw position	2	3	2	3	4	5	—
Pin	417 004 303	←	←	←	←	←	3
Engagement RPM ± 100	3400	←	←	←	←	←	—
Maximum RPM ± 100	6800	←	←	←	←	←	—

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Blue	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	40	←	←	←	←	←

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
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.

▼ CAUTION

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

CARBURATION

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

MAIN JET CHART

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

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

HIGH ALTITUDE KIT (P/N 861 757 900)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Spring	Yellow/green on Violet 417 118 500	←	Red/Blue on Violet 417 118 400	←	←	←	1
Block	417 118 100	←	←	←	←	←	1
Weight	1 of 417 120 400	←	5 of 417 114 400	4 of ←	3 of ←	2 of ←	x 3
Capsule	417 114 500	←	←	←	←	←	x 3
Engagement RPM ± 100	2900	←	3100	←	←	←	—
Maximum RPM ± 100	6900	←	←	←	←	←	—

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Orange 414 505 800	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	4.8 10.6	←	5.5 12.1	←	←	←
Cam angle	° (degrees)	44	←	←	←	←	←

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
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.

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 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	←	←	←	←	←	2
Air screw		1.25	←	←	1.0	←	←	PTO MAG
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-0 (159)	←	←	O-8 (159)	←	←	2
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM ± 200	1650	←	←	←	←	←	—
Idle throttle valve position	mm	1.3	←	←	1.6	←	←	—

MAIN JET CHART

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

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

HIGH ALTITUDE KIT (P/N 861 757 800)

DRIVE PULLEY

Clutching \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Spring	Red/Yellow 414 817 500	←	Red/Blue 414 691 500	←	←	←	1
Ramp	417 005 284	←	←	←	←	←	3
Calibration screw position	4	5	2	3	4	5	—
Pin	417 004 303	←	←	←	←	←	3
Engagement RPM ± 100	3000	←	←	←	←	←	—
Maximum RPM ± 100	7100	←	←	←	←	←	—

DRIVEN PULLEY

Clutching \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Orange 414 505 800	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	4.8 10.6	←	5.5 12.1	←	←	←
Cam angle	° (degrees)	44	←	←	←	←	←

CHAINCASE and DRIVE AXLE

Gearing \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
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.

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		180 170	170 160	160 150	150 140	140 130	130 120	PTO MAG
Jet needle		6DH2	←	←	←	←	←	2
Needle position		3	←	←	2	←	←	—
Slide cut-away		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 ± 200	1650	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	←	1.6	1.7	1.8	1.85	—
Exhaust restricting ring		N.A.	←	←	514 043 400	←	←	1

MAIN JET CHART

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

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

HIGH ALTITUDE KIT (P/N 861 757 700)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Spring (Touring E LT)	Yellow/Green on Violet 417 118 500	←	Red/Blue on Violet 417 118 400	←	←	←	1
Spring (Touring E)	Red/Blue on Violet 417 118 400	←	←	←	←	←	1
Block	417 118 100	←	←	←	←	←	1
Weight	1 of 417 120 400	←	5 of 417 114 400	4 of ←	3 of ←	2 of ←	x 3
Capsule	417 114 500	←	←	←	←	←	x 3
Engagement RPM ± 100	(E LT) 2900 (E) 3100	←	3100	←	←	←	—
Maximum RPM ± 100	6900	←	←	←	←	←	—

DRIVEN PULLEY

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

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
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.

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 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	←	←	←	←	←	2
Air screw		1.25 1.25	←	←	0.5 1.0	←	←	PTO MAG
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-0 (159)	←	←	O-8 (159)	←	←	2
Float level	mm	23.9	←	←	←	←	←	–
Idle	RPM ± 200	1650	←	←	←	←	←	–
Idle throttle valve position	mm	1.3	←	←	1.6	←	←	–

MAIN JET CHART

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

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

HIGH ALTITUDE KIT (P/N 861 757 600)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Spring	Yellow/Violet 414 678 400	←	Blue/Pink 415 916 300	←	←	←	1
Ramp	417 005 227	←	←	←	←	←	3
Calibration screw position	4	5	2	3	4	5	—
Pin	417 004 303	←	←	←	←	←	3
Engagement RPM ± 100	3500	←	3700	←	←	←	—
Maximum RPM ± 100	7000	←	←	←	←	←	—

DRIVEN PULLEY

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

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
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.

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		180	170	160	140	130	120	2
Jet needle		6DH2	←	←	←	←	←	2
Needle position		3	←	←	2	←	1	—
Slide cut-away		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 ± 200	1650	←	←	←	←	←	—
Idle throttle valve position	mm	1.6	1.9	2.0	2.2	2.3	2.4	—

MAIN JET CHART

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

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

HIGH ALTITUDE KIT (P/N 861 757 500)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Spring	Red/Yellow 414 817 500	←	Red/Blue 414 691 500	←	←	←	1
Ramp	415 005 284	←	←	←	←	←	3
Calibration screw position	4	5	2	3	4	5	—
Pin	417 004 303	←	←	←	←	←	3
Engagement RPM ± 100	3000	←	←	←	←	←	—
Maximum RPM ± 100	7100	←	←	←	←	←	—

DRIVEN PULLEY

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

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
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.

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		180 170	170 160	160 150	150 140	140 130	130 120	PTO MAG
Jet needle		6DH2	←	←	←	←	←	2
Needle position		3	←	←	2	←	←	—
Slide cut-away		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 ± 200	1650	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	←	1.6	1.7	1.8	1.85	—
Exhaust restricting ring		N.A.	←	←	514 043 400	←	←	1

MAIN JET CHART

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

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

HIGH ALTITUDE KIT (P/N 861 757 400)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Spring	Violet/Violet 414 817 900	←	Green/Blue 414 768 200	←	←	←	1
Ramp	414 005 228	←	←	←	←	←	3
Calibration screw position	3	4	2	3	4	5	—
Pin	417 004 304	←	417 004 303	←	←	←	3
Engagement RPM ± 100	3500	←	4400	←	←	←	—
Maximum RPM ± 100	7800	←	←	←	←	←	—

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Beige 414 558 900	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	44	←	←	←	←	←

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
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.

▼ CAUTION

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

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		330 310	310 290	290 270	260 250	240 230	220 210	PTO MAG
Jet needle		6FEY1	←	←	←	←	←	2
Needle position		3	←	←	2	←	←	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		50	←	←	←	←	←	2
Air screw		1.125	←	←	1.00	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-4 (480)	←	←	P-2 (480)	←	←	2
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.80	1.90	1.95	2.00	2.10	2.20	—

MAIN JET CHART

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

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

HIGH ALTITUDE KIT (P/N 861 757 300)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Spring	Blue/Blue 414 689 400	←	←	Violet/Pink 414 949 500	←	←	1
Ramp	417 005 285	←	←	417 005 289	←	←	3
Calibration screw position	3	4	5	4	5	6	—
Pin	417 004 303	←	←	←	←	←	3
Engagement RPM ± 100	3800	←	←	4200	←	←	—
Maximum RPM ± 100	7900	←	←	←	←	←	—

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Beige 414 558 900	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	6.1 13.4	←	←	←	←	←
Cam angle	° (degrees)	47	←	←	←	←	←

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
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.

▼ CAUTION

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

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		280 270	250 240	230 220	210 200	190 180	170 160	PTO MAG
Jet needle		6BGY15	←	←	←	←	←	2
Needle position		4	←	←	←	←	←	—
Slide cut-away		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 ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	2.00	2.10	2.20	2.60	2.70	2.80	—

MAIN JET CHART

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

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

HIGH ALTITUDE KIT (P/N 861 757 200)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Spring	Blue/Pink 414 916 300	←	Green/Violet 414 762 800	←	←	←	1
Ramp	417 005 286	←	417 005 285	←	←	←	3
Calibration screw position	3	4	2	3	4	5	—
Pin	417 004 304	←	417 004 303	←	←	←	3
Engagement RPM ± 100	3600	←	4800	←	←	←	—
Maximum RPM ± 100	8500	←	←	←	←	←	—

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Beige 414 558 900	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	47	←	←	←	←	←

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
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.

CARBURATION

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

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
- 40°C - 40°F	350	←	←	←	←	←	3
- 30°C - 20°F	350	←	←	←	←	←	3
- 20°C - 4°F	**350**	←	←	←	←	←	**3**
- 10°C 14°F	350	←	←	←	←	←	3
0°C 32°F	350	←	←	←	←	←	3
10°C 50°F	350	←	←	←	←	←	3
20°C 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 861 757 100)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Spring	Blue/Green 414 817 700	←	Blue/Blue 414 689 400	←	←	←	1
Ramp	417 005 289	←	417 005 284	←	←	←	3
Calibration screw position	3	4	3	4	5	6	—
Pin	417 004 303	←	←	←	←	←	3
Engagement RPM ± 100	3800	←	←	←	←	←	—
Maximum RPM ± 100	7000	←	←	←	←	←	—

DRIVEN PULLEY

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

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
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.

▼ CAUTION

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

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		205 195	195 185	185 175	170 160	160 150	150 140	PTO MAG
Jet needle		6DH2	←	←	←	←	←	2
Needle position		3	←	←	2	←	←	—
Slide cut-away		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 ± 200	1650	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	←	←	1.7	←	←	—

MAIN JET CHART

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

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

HIGH ALTITUDE KIT (P/N 861 756 900)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Spring	Green/Blue 414 768 200	←	←	←	←	←	1
Ramp	417 005 286	←	←	417 005 289	←	←	3
Calibration screw position	3	4	5	4	5	6	—
Pin	417 004 303	←	←	←	←	←	3
Engagement RPM ± 100	4400	←	←	4500	←	←	3
Maximum RPM ± 100	7900	←	←	←	←	←	—

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Beige 414 558 900	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	50	←	←	←	←	←

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
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.

▼ CAUTION

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

CARBURATION

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

MAIN JET CHART

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

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

HIGH ALTITUDE KIT (P/N 861 757 000)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Spring	Pink/White 414 991 400	←	Green/Pink 414 756 900	←	←	←	1
Ramp	417 005 283	←	417 005 289	←	←	←	3
Calibration screw position	3	4	2	3	4	5	—
Pin	417 005 303	←	←	←	←	←	3
Engagement RPM ± 100	4400	←	←	←	←	←	—
Maximum RPM ± 100	8000	←	←	←	←	←	—

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Beige	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	5.5 12.1	←	←	←
Cam angle	° (degrees)	44	←	←	←	←	←

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
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.

▼ CAUTION

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

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		240 210	230 200	220 190	200 170	185 155	175 145	PTO MAG
Jet needle		6FJ43	←	←	←	←	←	2
Needle position		2	←	←	←	←	←	—
Slide cut-away		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 ± 200	1700	←	←	←	←	←	—
Idle throttle valve position	mm	1.8	1.85	1.9	2.0	2.1	2.2	—

MAIN JET CHART

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

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

HIGH ALTITUDE KIT (P/N 861 756 800)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Spring	Violet/Yellow 415 015 300	←	←	←	←	←	1
Ramp	417 005 286	←	←	←	←	←	3
Calibration screw position	3	4	5	4	5	6	—
Pin	417 004 304	←	←	417 004 303	←	←	3
Engagement RPM ± 100	3800	←	←	4500	←	←	3
Maximum RPM ± 100	7700	←	←	←	←	←	—

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Beige 414 558 900	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	50	←	←	←	←	←

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
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.

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		300 270	280 250	260 230	240 210	220 200	200 180	PTO MAG
Jet needle		7EDY1	←	←	←	←	←	2
Needle position		3	←	←	2	←	←	—
Slide cut-away		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 (224)	←	←	←	←	←	2
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM ± 200	1700	←	←	←	←	←	—
Idle throttle valve position	mm	2.10	2.15	2.25	2.40	2.55	2.65	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
- 40°C - 40°F	320 290	300 270	280 250	260 250	240 220	220 200	PTO MAG
- 30°C - 20°F	310 280	290 260	270 240	250 220	230 210	210 190	PTO MAG
- 20°C - 4°F	**300 270**	**280 250**	**260 230**	**240 210**	**220 200**	**200 180**	**PTO MAG**
- 10°C 14°F	290 260	270 240	250 220	230 200	210 190	190 170	PTO MAG
0°C 32°F	280 250	260 230	240 210	220 190	200 180	180 170	PTO MAG
10°C 50°F	270 240	250 220	230 200	210 190	200 180	180 170	PTO MAG
20°C 70°F	260 240	240 210	220 200	200 180	180 170	170 160	PTO MAG

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

HIGH ALTITUDE KIT (P/N 861 756 700)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Spring	Red/Blue on Violet 417 118 400	←	←	←	←	←	1
Block	417 118 100	←	←	←	←	←	3
Weight	1 of 417 120 400	←	5 of 417 114 400	4 of ←	3 of ←	2 of ←	x 3
Capsule	417 114 500	←	←	←	←	←	x 3
Engagement RPM ± 100	3100	←	←	←	←	←	—
Maximum RPM ± 100	6900	←	←	←	←	←	—

DRIVEN PULLEY

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

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
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.

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 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	←	←	←	←	←	2
Air screw		1.25 1.25	←	←	.5 1.0	←	←	PTO MAG
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-0 (159)	←	←	O-8 (159)	←	←	2
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM ± 200	1650	←	←	←	←	←	—
Idle throttle valve position	mm	1.3	←	←	1.6	←	←	—

MAIN JET CHART

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

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

HIGH ALTITUDE KIT (P/N 861 756 600)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Spring	Blue/Yellow 414 689 500	←	Blue/Blue 414 689 400	←	←	←	1
Ramp	417 005 284	←	←	←	←	←	3
Calibration screw position	3	4	2	3	4	5	—
Pin	417 004 303	←	←	←	←	←	3
Engagement RPM ± 100	3600	←	←	←	←	←	—
Maximum RPM ± 100	7100	←	←	←	←	←	—

DRIVEN PULLEY

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

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
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.

▼ CAUTION

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

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		180 170	170 160	160 150	150 140	140 130	130 120	PTO MAG
Jet needle		6DH2	←	←	←	←	←	2
Needle position		3	←	←	2	←	←	—
Slide cut-away		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 ± 200	1650	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	←	1.6	1.7	1.8	1.85	—
Exhaust restricting ring		N.A.	←	←	514 043 400	←	←	1

MAIN JET CHART

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

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

HIGH ALTITUDE KIT (P/N 861 756 400)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Spring	Violet/Blue 415 034 900	←	←	←	←	←	1
Ramp	417 005 286	←	←	417 005 289	←	←	3
Calibration screw position	3	4	5	4	5	6	—
Pin	417 004 303	←	←	←	←	←	3
Engagement RPM ± 100	4100	←	←	4200	←	←	—
Maximum RPM ± 100	7900	←	←	←	←	←	—

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Beige	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	50	←	←	←	←	←

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
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.

▼ CAUTION

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

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		280 270	250 240	230 220	210 200	190 180	170 160	PTO MAG
Jet needle		6BGY15	←	←	←	←	←	2
Needle position		4	←	←	←	←	←	—
Slide cut-away		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 ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	2.0	2.10	2.20	2.60	2.70	2.80	—

MAIN JET CHART

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

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

HIGH ALTITUDE KIT (P/N 861 756 500)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Spring	Violet/Green 415 015 400	←	Green/Violet 414 762 800	←	←	←	1
Ramp	417 005 281	←	←	←	←	←	3
Calibration screw position	3	4	3	4	5	6	—
Pin	417 004 303	←	←	←	←	←	3
Engagement RPM ± 100	4200	←	4600	←	←	←	—
Maximum RPM ± 100	7750	←	←	←	←	←	—

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Beige	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	50	←	←	←	←	←

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
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.

▼ CAUTION

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

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		310 290	290 270	270 250	240 230	220 210	200 190	PTO MAG
Jet needle		6FEY1	←	←	←	←	←	2
Needle position		3	←	←	2	←	←	—
Slide cut-away		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 ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.8	1.85	1.9	2.0	2.1	2.15	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
- 40°C - 40°F	330 310	310 290	290 270	260 250	240 230	220 210	PTO MAG
- 30°C - 20°F	320 300	300 280	280 260	250 240	230 220	210 200	PTO MAG
- 20°C - 4°F	**310 290**	**290 270**	**270 250**	**240 230**	**220 210**	**200 190**	**PTO MAG**
- 10°C 14°F	300 280	280 260	260 240	230 220	210 200	190 180	PTO MAG
0°C 32°F	290 270	270 250	250 230	220 210	200 190	180 170	PTO MAG
10°C 50°F	280 260	260 240	240 220	210 200	190 180	170 160	PTO MAG
20°C 70°F	270 250	250 230	230 210	200 190	180 170	160 150	PTO MAG

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

HIGH ALTITUDE KIT (P/N 861 756 300)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Spring	Violet/Blue 415 034 900	←	←	←	←	←	1
Ramp	417 005 286	←	←	417 005 289	←	←	3
Calibration screw position	3	4	5	4	5	6	—
Pin	417 004 303	←	←	←	←	←	3
Engagement RPM ± 100	4100	←	←	4200	←	←	—
Maximum RPM ± 100	7900	←	←	←	←	←	—

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Beige	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	50	←	←	←	←	←

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
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.

▼ CAUTION

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

CARBURATION

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

MAIN JET CHART

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

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

HIGH ALTITUDE KIT (P/N 861 756 200)

DRIVE PULLEY

Clutching \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Spring	Pink/White 414 991 400	←	←	←	←	←	1
Ramp	417 005 281	←	←	←	←	←	3
Calibration screw position	4	5	6	2	3	4	—
Pin	417 004 304	←	417 004 303	←	←	←	3
Engagement RPM ± 100	4500	←	←	←	←	←	—
Maximum RPM ± 100	8400	←	←	←	←	←	—

DRIVEN PULLEY

Clutching \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Beige 414 558 900	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	50 504 096 100	←	←	←	←	←

CHAINCASE and DRIVE AXLE

Gearing \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
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.

▼ CAUTION

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

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		330	300	280	250	220	200	3
Jet needle		6DEY4	←	←	←	←	←	3
Needle position		3	←	2	←	←	1	—
Slide cut-away		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 ± 200	1900	←	←	←	←	←	—
Idle throttle valve position	mm	1.20	1.40	1.60	1.80	2.00	←	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
- 40°C - 40°F	350	320	300	270	240	210	3
- 30°C - 20°F	340	310	290	260	230	205	3
- 20°C - 4°F	**330**	**300**	**280**	**250**	**220**	**200**	**3**
- 10°C 14°F	320	290	270	240	220	190	3
0°C 32°F	310	290	260	240	210	190	3
10°C 50°F	300	280	250	230	210	180	3
20°C 70°F	290	270	240	220	200	180	3

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

Additional information: At 2400 m, on Formula III LT, restriction ring (P/N 514 096 800), Qty 3 must be installed.

HIGH ALTITUDE KIT (P/N 861 756 100)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Spring	Pink/White 414 991 400	←	Green/Violet 414 762 800	←	←	←	1
Ramp	417 005 286	←	417 005 285	←	←	←	3
Calibration screw position	4	5	2	3	4	5	—
Pin	417 004 304	←	417 004 303	←	←	←	3
Engagement RPM ± 100	4500	←	4800	←	←	←	—
Maximum RPM ± 100	8500	←	←	←	←	←	—

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Beige 414 558 900	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	47-50	←	←	←	←	←

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
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.

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		350	310	270	230	190	150	3
Jet needle		6DEY2	←	←	←	←	←	3
Needle position		4	←	←	3	←	←	—
Slide cut-away		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 ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.40	1.50	1.70	1.80	1.90	2.00	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
- 40°C - 40°F	370	330	290	250	210	170	3
- 30°C - 20°F	360	320	280	240	200	160	3
- 20°C - 4°F	**350**	**310**	**270**	**230**	**190**	**150**	**3**
- 10°C 14°F	340	300	260	220	180	140	3
0°C 32°F	330	290	250	210	170	130	3
10°C 50°F	320	280	240	200	160	120	3
20°C 70°F	310	270	230	190	150	110	3

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

HIGH ALTITUDE KIT (P/N 861 756 000)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Spring	Green/Blue 414 768 200	←	←	←	←	←	1
Ramp	417 005 286	←	←	←	←	←	3
Calibration screw position	3	4	3	4	5	6	—
Pin	417 004 304	←	417 004 303	←	←	←	3
Engagement RPM ± 100	4100	←	4500	←	←	←	—
Maximum RPM ± 100	8300	←	←	←	←	←	—

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Beige	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	47-50	←	←	←	←	←

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
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.

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		380	350	320	290	260	230	3
Jet needle		8 AGY1-41	←	←	←	←	←	3
Needle position		3	←	2	←	←	1	—
Slide cut-away		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 ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.30	1.40	1.60	1.80	2.00	2.20	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
- 40°C - 40°F	400	370	340	300	270	240	3
- 30°C - 20°F	390	360	330	300	270	240	3
- 20°C - 4°F	**380**	**350**	**320**	**290**	**260**	**230**	**3**
- 10°C 14°F	370	340	310	280	250	220	3
0°C 32°F	360	330	300	270	250	220	3
10°C 50°F	350	320	290	260	240	210	3
20°C 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 514 096 700), Qty 3 must be installed.

HIGH ALTITUDE KIT (P/N 861 755 900)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Spring	Green/Blue 414 768 200	←	←	←	←	←	1
Ramp	417 005 286	←	←	←	←	←	3
Calibration screw position	3	4	3	4	5	6	—
Pin	417 004 304	←	417 004 303	←	←	←	3
Engagement RPM ± 100	4100	←	4500	←	←	←	—
Maximum RPM ± 100	8300	←	←	←	←	←	—

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Beige	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	47-50	←	←	←	←	←

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
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.

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		380	350	320	290	260	230	3
Jet needle		8 AGY1-41	←	←	←	←	←	3
Needle position		3	←	2	←	←	1	—
Slide cut-away		2.0	←	←	←	←	←	3
Pilot jet		50	←	←	60	←	←	3
Air screw		4.00	3.50	3.00	←	2.50	2.00	—
Valve seat		1.5	←	←	←	←	←	3
Needle jet		O-4 (327)	←	←	←	←	←	3
Float level	mm	20	←	←	←	←	←	—
Idle	RPM ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.30	1.40	1.60	1.80	2.00	2.20	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
- 40°C - 40°F	400	370	340	300	270	240	3
- 30°C - 20°F	390	360	330	300	270	240	3
- 20°C - 4°F	**380**	**350**	**320**	**290**	**260**	**230**	**3**
- 10°C 14°F	370	340	310	280	250	220	3
0°C 32°F	360	330	300	270	250	220	3
10°C 50°F	350	320	290	260	240	210	3
20°C 70°F	340	310	290	260	230	200	3

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

HIGH ALTITUDE TECHNICAL DATA - 1996 MODELS

1996-ÉLAN

HIGH ALTITUDE KIT (P/N 861 753 900)

DRIVE PULLEY

Clutching \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Spring	Blue 417 115 000	←	←	←	←	←	1
Block	417 114 300	←	←	←	←	←	—
Weight	6	←	←	5	←	←	—
Capsule	417 114 500	←	←	←	←	←	—
Engagement RPM ± 100	2100	←	←	←	←	←	—
Maximum RPM ± 100	5200	←	←	←	←	←	—

DRIVEN PULLEY

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

CHAINCASE and DRIVE AXLE

Gearing \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Top sprocket	10	←	←	←	←	←
Bottom sprocket	25	←	←	←	←	←
Chain, quantity of links	62	←	←	←	←	←
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.

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		160	155	145	135	125	120	1
Jet needle		6DP1	←	←	←	←	←	1
Needle position		3	←	←	←	←	←	—
Slide cut-away		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

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

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

HIGH ALTITUDE KIT (P/N 861 753 800)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Spring	Turquoise 417 115 900	←	Blue 417 115 600	←	←	←	1
Block	417 114 300	←	417 115 700	←	←	←	3
Weight	0	←	3 of 417 115 800	2 of ←	2 of ←	1 of ←	x 3
Capsule	2	←	0	←	←	←	x 3
Engagement RPM ± 100	3900	←	3200	←	←	←	—
Maximum RPM ± 100	6900	←	←	←	←	←	—

DRIVEN PULLEY

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

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Top sprocket	14	←	←	←	←	←
Bottom sprocket	25	←	←	←	←	←
Chain, quantity of links	62	←	←	←	←	←
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.

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		190	185	175	140	130	125	1
Jet needle		6DH4	←	←	←	←	←	1
Needle position		2	←	←	←	←	←	—
Slide cut-away		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

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

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

HIGH ALTITUDE KIT (P/N 861 751 900)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Spring	Blue/Violet 420 438 137	←	Red/Blue 414 691 500	←	←	←	1
Ramp	420 480 146	←	←	←	←	←	3
Calibration screw position	3	4	2	3	4	5	—
Pin	420 429 140	←	←	←	←	←	3
Engagement RPM ± 100	2900	←	←	←	←	←	—
Maximum RPM ± 100	6500	←	←	←	←	←	—

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Blue	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	6.4 14.1	←	←	←	←	←
Cam angle	° (degrees)	35-50	←	←	←	←	←

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
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.

CARBURATION

Altitude / Calibration		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		220	210	190	170	160	150	1
Jet needle		6DH8	←	←	←	←	←	1
Needle position		4	←	←	3	←	←	—
Slide cut-away		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 / Temperature	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
- 40°C - 40°F	240	230	210	185	180	170	1
- 30°C - 20°F	230	220	200	180	170	160	1
- 20°C - 4°F	**220**	**210**	**190**	**170**	**160**	**150**	**1**
- 10°C 14°F	210	200	180	165	155	145	1
0°C 32°F	200	190	170	160	150	140	1
10°C 50°F	190	180	160	150	145	135	1
20°C 70°F	180	170	150	140	140	130	1

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

HIGH ALTITUDE KIT (P/N 861 751 800)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Spring	Yellow/Green * 417 118 500	←	Red/Blue * 417 118 400	←	←	←	1
Block	417 118 100	←	←	←	←	←	3
Weight	1 of 417 120 400	←	5 of 417 114 400	4 of ←	3 of ←	2 of ←	x 3
Capsule	1	←	←	←	←	←	x 3
Engagement RPM ± 100	2900	←	3100	←	←	←	—
Maximum RPM ± 100	6900	←	←	←	←	←	—

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

DRIVEN PULLEY

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

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
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.

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 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 1.0	←	←	PTO MAG
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-0 (159)	←	←	O-8 (159)	←	←	2
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM	1500-1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.3	←	←	1.6	←	←	—

MAIN JET CHART

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

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

HIGH ALTITUDE KIT (P/N 861 751 700)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Spring	Red/Orange 420 438 130	←	Red/Blue 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 ± 100	3000	←	←	←	←	←	—
Maximum RPM ± 100	7100	←	←	←	←	←	—

DRIVEN PULLEY

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

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
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.

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		190 180	180 170	170 160	150 140	140 130	130 120	PTO MAG
Jet needle		6DH2	←	←	←	←	←	2
Needle position		3	←	←	2	←	←	—
Slide cut-away		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	1500-1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	←	←	1.7	1.8	1.85	—

MAIN JET CHART

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

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

HIGH ALTITUDE KIT (P/N 861 751 600)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Spring (Touring E LT)	Yellow/Green * 417 118 500	←	Red/Blue * 417 118 400	←	←	←	1
Spring (Touring E)	Red/Blue * 417 118 400	←	←	←	←	←	1
Block	417 118 100	←	←	←	←	←	3
Weight	1 of 417 120 400	←	5 of 417 114 400	4 of ←	3 of ←	2 of ←	x 3
Capsule	1	←	←	←	←	←	x 3
Engagement RPM ± 100	(E LT) 2900 (E) 3100	←	3100	←	←	←	—
Maximum RPM ± 100	6900	←	←	←	←	←	—

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

DRIVEN PULLEY

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

CHAINCASE and DRIVE AXLE

Gearing / Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
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.

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 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	←	←	←	←	←	2
Air screw		1.25	←	←	0.5 1.0	←	←	PTO MAG
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-0 (159)	←	←	O-8 (159)	←	←	2
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM	1500-1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.3	←	←	1.6	←	←	—

MAIN JET CHART

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

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

HIGH ALTITUDE KIT (P/N 861 751 500)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Spring	Yellow/Violet 414 678 400	←	Violet/Green 415 015 400	←	←	←	1
Ramp	420 480 227	←	←	←	←	←	3
Calibration screw position	4	5	3	4	5	6	—
Pin	420 429 140	←	←	←	←	←	3
Engagement RPM ± 100	3100	←	3500	←	←	←	—
Maximum RPM ± 100	7000	←	←	←	←	←	—

DRIVEN PULLEY

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

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
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.

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		180	170	160	140	130	120	2
Jet needle		6DH2	←	←	←	←	←	2
Needle position		3	←	←	2	←	1	—
Slide cut-away		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

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

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

HIGH ALTITUDE KIT (P/N 861 751 400)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Spring	Red/Orange 415 015 200	←	Red/Blue 414 691 500	←	←	←	1
Ramp	420 480 284	←	←	←	←	←	3
Calibration screw position	4	5	3	4	5	6	—
Pin	420 429 140	←	←	←	←	←	3
Engagement RPM ± 100	3000	←	←	←	←	←	—
Maximum RPM ± 100	7100	←	←	←	←	←	—

DRIVEN PULLEY

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

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
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.

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		190 180	180 170	170 160	150 140	140 130	130 120	PTO MAG
Jet needle		6DH2	←	←	←	←	←	2
Needle position		3	←	←	2	←	←	—
Slide cut-away		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	1500-1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	←	←	1.7	1.8	1.85	—
Exhaust restricting ring		N.A.	←	←	514 043 400	←	←	1

MAIN JET CHART

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

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

HIGH ALTITUDE KIT (P/N 861 751 100)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Spring	Green/Blue 414 768 200	←	←	←	←	←	1
Ramp	420 480 228	←	←	←	←	←	3
Calibration screw position	3	4	2	3	4	5	—
Pin	504 259 600	←	420 429 140	←	←	←	3
Engagement RPM ± 100	4100	←	4400	←	←	←	—
Maximum RPM ± 100	7500	←	←	←	←	←	—

DRIVEN PULLEY

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

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
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.

▼ CAUTION

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

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		320	300	280	260	240	220	2
Jet needle		6FEY1	←	←	←	←	←	2
Needle position		3	←	←	2	←	←	—
Slide cut-away		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

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

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

HIGH ALTITUDE KIT (P/N 861 751 000)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Spring	Yellow/Red 414 993 000	←	←	Blue/Orange 414 639 000	←	←	1
Ramp	420 480 228	←	←	←	←	←	3
Calibration screw position	3	4	5	3	4	5	—
Pin	420 429 140	←	←	←	←	←	3
Engagement RPM ± 100	3200	←	←	←	←	←	—
Maximum RPM ± 100	7300	←	←	←	←	←	—

DRIVEN PULLEY

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

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
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.

▼ CAUTION

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

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		360 370	340 350	320 330	300 310	280 290	260 270	PTO MAG
Jet needle		6DHN44	←	←	←	←	←	2
Needle position		4	←	←	3	←	←	—
Slide cut-away		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	1800-2000	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	←	1.6	1.65	1.7	1.75	—

MAIN JET CHART

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

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

HIGH ALTITUDE KIT (P/N 861 750 900)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Spring	Yellow/Orange 414 689 700	←	←	Violet/Yellow 415 015 300	←	←	1
Ramp	420 480 280	←	←	420 480 286	←	←	3
Calibration screw position	3	4	5	4	5	6	—
Pin	420 429 140	←	←	←	←	←	3
Engagement RPM ± 100	3500	←	←	3800	←	←	—
Maximum RPM ± 100	7700	←	←	←	←	←	—

DRIVEN PULLEY

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

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
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.

▼ CAUTION

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

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		360	330	300	280	260	240	2
Jet needle		7EDY1	←	←	←	←	←	2
Needle position		3	←	2	←	←	1	—
Slide cut-away		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 (224)	←	←	←	←	←	2
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM	1800-2000	←	←	←	←	←	—
Idle throttle valve position	mm	1.9	2.15	2.25	2.4	2.55	2.65	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
- 40°C - 40°F	380	350	320	300	280	260	2
- 30°C - 20°F	370	340	310	290	270	250	2
- 20°C - 4°F	**360**	**330**	**300**	**280**	**260**	**240**	**2**
- 10°C 14°F	350	320	300	280	260	240	2
0°C 32°F	340	310	290	270	250	230	2
10°C 50°F	340	310	290	270	250	230	2
20°C 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 861 750 800)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Spring	Pink/White 414 991 400	←	Green/Pink 414 756 900	←	←	←	1
Ramp	420 480 283	←	420 480 289	←	←	←	3
Calibration screw position	3	4	2	3	4	5	—
Pin	420 429 140	←	←	←	←	←	3
Engagement RPM ± 100	4400	←	←	←	←	←	—
Maximum RPM ± 100	8000	←	←	←	←	←	—

DRIVEN PULLEY

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

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
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.

▼ CAUTION

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

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		230 210	220 200	210 190	190 170	175 155	165 145	PTO MAG
Jet needle		6FJ43	←	←	←	←	←	2
Needle position		2	←	←	←	←	←	—
Slide cut-away		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	1600-1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.8	←	1.9	2.0	2.1	2.2	—

MAIN JET CHART

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

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

HIGH ALTITUDE KIT (P/N 861 750 700)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Spring	Green/Blue 414 768 200	←	Violet/Blue 415 034 900	←	←	←	1
Ramp	420 480 286	←	420 480 289	←	←	←	3
Calibration screw position	2	3	2	3	4	5	—
Pin	420 429 140	←	←	←	←	←	3
Engagement RPM ± 100	4400	←	3800	←	←	←	3
Maximum RPM ± 100	7900	←	←	←	←	←	—

DRIVEN PULLEY

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

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
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.

▼ CAUTION

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

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		270 260	250 240	230 220	210 200	190 180	180 170	PTO MAG
Jet needle		7ECY1	←	←	←	←	←	2
Needle position		3	←	←	2	←	←	—
Slide cut-away		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 (224)	←	←	←	←	←	2
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM	1800-2000	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	1.6	1.7	1.8	1.9	2.0	—

MAIN JET CHART

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

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

HIGH ALTITUDE KIT (P/N 861 751 300)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Spring	Violet * 417 118 400	←	←	←	←	←	1
Block	417 118 100	←	←	←	←	←	3
Weight	1 of 417 120 400	←	5 of 417 114 400	4 of ←	3 of ←	2 of ←	x 3
Capsule	1	←	←	←	←	←	x 3
Engagement RPM ± 100	3100	←	←	←	←	←	—
Maximum RPM ± 100	6900	←	←	←	←	←	—

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

DRIVEN PULLEY

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

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
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.

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 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	←	←	←	←	←	2
Air screw		1.25	←	←	.5 1.0	←	←	PTO MAG
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-0 (159)	←	←	O-8 (159)	←	←	2
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM	1500-1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.3	←	←	1.6	←	←	—

MAIN JET CHART

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

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

HIGH ALTITUDE KIT (P/N 861 751 200)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Spring	Blue/Yellow 414 689 500	←	Blue/Blue 414 689 400	←	←	←	1
Ramp	420 480 284	←	←	←	←	←	3
Calibration screw position	3	4	2	3	4	5	—
Pin	420 429 140	←	←	←	←	←	3
Engagement RPM ± 100	3600	←	←	←	←	←	—
Maximum RPM ± 100	7100	←	←	←	←	←	—

DRIVEN PULLEY

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

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.

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		190 180	180 170	170 160	150 140	140 130	130 120	PTO MAG
Jet needle		6DH2	←	←	←	←	←	2
Needle position		3	←	←	2	←	←	—
Slide cut-away		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	1500-1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	←	←	1.7	1.8	1.85	—
Exhaust restricting ring		N.A.	←	←	514 043 400	←	←	1

MAIN JET CHART

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

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

HIGH ALTITUDE KIT (P/N 861 750 600)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Spring	Green/Blue 420 438 194	←	Pink/White 414 991 400	←	←	←	1
Ramp	420 480 287	←	←	←	←	←	3
Calibration screw position	3	4	2	3	4	5	—
Pin	420 429 140	←	←	←	←	←	3
Engagement RPM ± 100	4500	←	4900	←	←	←	—
Maximum RPM ± 100	7500	←	←	←	←	←	—

DRIVEN PULLEY

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

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
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.

▼ CAUTION

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

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		320	300	280	260	240	220	2
Jet needle		6FEY1	←	←	←	←	←	2
Needle position		3	←	←	2	←	←	—
Slide cut-away		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

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

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

HIGH ALTITUDE KIT (P/N 861 750 500)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Spring (STX)	Blue/Green 414 817 700	←	Violet/Violet 414 817 900	←	←	←	1
Spring (STX LT)	Yellow/Green 414 742 300	←	Violet/Violet 414 817 900	←	←	←	1
Ramp	420 480 228	←	←	←	←	←	3
Calibration screw position	(STX) 4 (STX LT) 3	5	3	4	←	5	—
Pin	420 429 140	←	←	←	←	←	3
Engagement RPM ± 100	(STX) 3500 (STX LT) 3200	←	(STX) 3800 (STX LT) 3800	←	←	←	—
Maximum RPM ± 100	7900	←	←	←	←	←	—

DRIVEN PULLEY

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

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Top sprocket	(STX) 25 (STX LT) 23	←	←	←	←	←
Bottom sprocket	44	←	←	←	←	←
Chain, quantity of links	(STX) 74 (STX LT) 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.

CARBURATION

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

MAIN JET CHART

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

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

HIGH ALTITUDE KIT (P/N 861 750 300)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Spring	Violet/Yellow 415 015 300	←	←	←	←	←	1
Ramp	420 480 286	←	←	←	←	←	3
Calibration screw position	3	4	5	4	5	6	—
Pin	504 259 600	←	←	420 429 140	←	←	3
Engagement RPM ± 100	3800	←	←	4100	←	←	—
Maximum RPM ± 100	7700	←	←	←	←	←	—

DRIVEN PULLEY

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

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
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.

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		360	330	300	280	260	240	2
Jet needle		7EDY1	←	←	←	←	←	2
Needle position		3	←	2	←	←	1	—
Slide cut-away		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 (224)	←	←	←	←	←	2
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM	1800-2000	←	←	←	←	←	—
Idle throttle valve position	mm	1.9	2.15	2.25	2.4	2.55	2.65	—

MAIN JET CHART

Temperature \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
- 40°C - 40°F	380	350	320	300	280	260	2
- 30°C - 20°F	370	340	310	290	270	250	2
- 20°C - 4°F	**360**	**330**	**300**	**280**	**260**	**240**	**2**
- 10°C 14°F	350	320	300	280	260	240	2
0°C 32°F	340	310	290	270	250	230	2
10°C 50°F	340	310	290	270	250	230	2
20°C 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 861 750 400)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Spring	Yellow 414 605 500	←	Violet/Violet 414 817 900	←	←	←	1
Ramp	420 480 228	←	←	←	←	←	3
Calibration screw position	4	5	3	4	←	5	—
Pin	420 429 140	←	←	←	←	←	3
Engagement RPM ± 100	3800	←	←	←	←	←	—
Maximum RPM ± 100	7900	←	←	←	←	←	—

DRIVEN PULLEY

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

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
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.

▼ CAUTION

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

CARBURATION

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

MAIN JET CHART

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

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

HIGH ALTITUDE KIT (P/N 861 750 200)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Spring	Pink/White 420 438 193	←	←	←	←	Violet/Pink 414 949 500	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 ± 100	4500	←	4700	←	←	4100	—
Maximum RPM ± 100	8200	←	←	←	←	←	—

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Beige	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	6.1 13.4	6.8 15.0	←	←	←	←
Cam angle	° (degrees)	50	←	←	←	←	44

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
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.

▼ CAUTION

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

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet PTO/Ctr/MAG		330/ 320/330	300/ 290/300	280/ 270/280	250/ 240/250	220/ 220/220	200/ 200/200	—
Jet needle		6DEY2	←	←	←	←	←	3
Needle position		3	←	2	←	←	1	—
Slide cut-away		2.5	←	←	←	←	←	—
Pilot jet PTO/Ctr/MAG		50/55/50	←	←	60/65/60	←	←	—
Air screw PTO/Ctr/MAG		1.50/ 1.50/1.50	←	1.25/ 1.25/1.25	1.50/ 1.50/1.50	1.125/ 1.125/1.125	0.75/ 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- 2000	←	←	←	←	←	—
Idle throttle valve position	mm	1.2	1.3	1.4	1.6	1.8	2.0	—

MAIN JET CHART

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

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

HIGH ALTITUDE KIT (P/N 861 750 100)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Spring	Pink/White 414 991 400	←	←	←	←	←	1
Ramp	420 480 286	←	420 480 283	←	←	←	3
Calibration screw position	2	3	2	3	4	5	—
Pin	504 259 600	←	420 429 140	←	←	←	3
Engagement RPM ± 100	4500	←	4700	←	←	←	—
Maximum RPM ± 100	8200	←	←	←	←	←	—

DRIVEN PULLEY

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

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
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.

CARBURATION

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

MAIN JET CHART

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

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

HIGH ALTITUDE KIT (P/N 861 750 000)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Spring	Green/Violet 414 762 800	←	←	←	←	←	1
Ramp	420 480 286	←	←	←	←	←	3
Calibration screw position	4	5	3	4	5	6	—
Pin	504 259 600	←	420 429 140	←	←	←	3
Engagement RPM ± 100	4100	←	4500	←	←	←	—
Maximum RPM ± 100	8200	←	←	←	←	←	—

DRIVEN PULLEY

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

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
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.

▼ CAUTION

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

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet PTO/Ctr/MAG		380/ 370/380	350/ 340/350	320/ 310/320	290/ 280/290	260/ 250/260	230/ 220/230	—
Jet needle		8 AGY1-41	←	←	←	←	←	3
Needle position		3	←	2	←	←	1	—
Slide cut-away		2.0	←	←	←	←	←	3
Pilot jet PTO/Ctr/MAG		40/45/45	←	←	←	←	←	—
Air screw PTO/Ctr/MAG		4.5/ 4.0/3.5	←	←	3.375/ 3.0/2.625	2.25/ 2.0/1.75	2.0/ 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 valve position	mm	1.2	1.4	1.6	1.8	2.0	2.2	—

MAIN JET CHART

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

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

HIGH ALTITUDE KIT (P/N 861 749 900)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Spring	Green/Violet 414 762 800	←	←	←	←	←	1
Ramp	420 480 286	←	←	←	←	←	3
Calibration screw position	3	4	3	4	5	6	—
Pin	504 259 600	←	420 429 140	←	←	←	3
Engagement RPM ± 100	4100	←	4500	←	←	←	—
Maximum RPM ± 100	8200	←	←	←	←	←	—

DRIVEN PULLEY

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

CHAINCASE and DRIVE AXLE

Altitude / Gearing	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
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.

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet PTO/Ctr/MAG		380/ 370/380	350/ 340/350	320/ 310/320	290/ 280/290	260/ 250/260	230/ 220/230	—
Jet needle		8 AGY1-41	←	←	←	←	←	3
Needle position		3	←	2	←	←	1	—
Slide cut-away		2.0	←	←	←	←	←	3
Pilot jet PTO/Ctr/MAG		40/45/45	←	←	←	←	←	—
Air screw PTO/Ctr/MAG		4.5/ 4.0/3.5	←	←	3.375/ 3.0/2.625	2.25/ 2.0/1.75	2.0/ 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 valve position	mm	1.2	1.4	1.6	1.8	2.0	2.2	—

MAIN JET CHART

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

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

HIGH ALTITUDE TECHNICAL DATA - 1995 MODELS

1995 - ÉLAN

HIGH ALTITUDE KIT (P/N 861 739 900)

CARBURATOR

Altitude / Calibration	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 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 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

Altitude / Clutching	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Return spring	Blue/Blue 417 115 000	Blue/Blue 417 115 000	Blue/Blue 417 115 000	Blue/Blue 417 115 000	Blue/Blue 417 115 000
Block	417 114 300 Std	417 114 300 Std	417 114 300 Std	417 114 300 Std	417 114 300 Std
Weight	417 114 400 6	417 114 400 6	417 114 400 6	417 114 400 6	417 114 400 6
Capsule	417 114 500 Std	417 114 500 Std	417 114 500 Std	417 114 500 Std	417 114 500 Std
Calibration screw position	N.A.	N.A.	N.A.	N.A.	N.A.

DRIVEN PULLEY

Altitude / Gearing	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 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° Std 504 102 900	40.4° Std 504 102 900	40.4° Std 504 102 900	40.4° Std 504 102 900	40.4° Std 504 102 900
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 / Temperature	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
- 40°C - 40°F	170	155	145	140	130
- 30°C - 20°F	165	150	140	130	125
- 20°C - 4°F	**160**	**145**	**135**	**125**	**120**
- 10°C 14°F	155	140	130	120	115
0°C 32°F	150	135	125	115	110
10°C 50°F	145	130	120	110	105
20°C 70°F	140	125	115	105	100

HIGH ALTITUDE KIT (P/N 861 743 400)

CARBURETOR

Altitude / Calibration	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
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 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

Altitude / Clutching	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Return spring	Turquoise 417 115 900	Blue 417 115 600	Blue 417 115 600	Blue 417 115 600	Blue 417 115 600
Centrifugal level arm	B1KSH 504 088 400	A3SH 860 416 600	A3SH 860 416 600	A3SH 860 416 600	A3SH 860 416 600
Block	417 114 300 Std	417 115 700	417 115 700	417 115 700	417 115 700
Weight	N.A.	417 115 800 3	417 115 800 2	417 115 800 2	417 115 800 1
Capsule	2	0	0	0	0

DRIVEN PULLEY

Altitude / Gearing	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring preload	8 lb ± 2	13 lb ± 1	13 lb ± 1	13 lb ± 1	13 lb ± 1
Cam	37.8° Std 504 081 300	37.8° Std 504 081 300	37.8° Std 504 081 300	37.8° Std 504 081 300	37.8° Std 504 081 300
Chaincase gearing	14/25 Std	14/25 Std	14/25 Std	14/25 Std	14/25 Std

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

HIGH ALTITUDE KIT (P/N 861 725 300)

CARBURETOR

Altitude / Calibration	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
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 cut-away	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

Altitude / Clutching	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Return spring	Red/Red 414 689 800	Red/Green 414 689 200	Red/Green 414 689 200	Red/Green 414 689 200	Red/Green 414 689 200
Centrifugal level arm	Std	Std	Std	Std	Std
Calibration washers or pin	Std	Std	Std	Std	Std
Governor cup or ramp	221 420 480 221	221 420 480 221	221 420 480 221	221 420 480 221	221 420 480 221
Calibration screw position	4	4	4	4	4

DRIVEN PULLEY

Altitude / Gearing	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
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

SPECIAL SET-UP NOTES:
This vehicle is eqquipped with a “TRA” type clutch.

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

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

HIGH ALTITUDE KIT (P/N 861 746 900)

DRIVE PULLEY

Altitude / Clutching	Qty	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring (Skandic 380 R, Touring LE)	1	Violet 417 118 500	Violet 417 118 400	←	←	←
Spring (Formula S, Touring E)	—	Violet 417 118 400	←	←	←	←
Block	3	STD	←	←	←	←
Weight	—	6	3	2	2	1
Capsule	—	1	←	←	←	←
Engagement RPM	—	2800 3000	←	←	←	←
Max. RPM	—	6700 7000	←	←	←	←

DRIVEN PULLEY

Altitude / Clutching	Qty	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	—	Orange	←	←	←	←
Spring tension	—	10.5	12	←	←	←
Cam angle (deg.)	—	44°	←	←	←	←

CHAINCASE

Altitude / Gearing	Qty	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Top sprocket	—	21	←	←	←	←
Bottom sprocket	—	44	←	←	←	←
Chain, quantity links	—	72	←	←	←	←
Sprocket, 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.

CARBURATION

Altitude / Calibration	Qty	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
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 MAG	1.25	←	1/2 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 1800	←	←	←	←
Idle throttle valve position	—	1.3	←	1.6	←	←

MAIN JET CHART

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

1995 - SKANDIC 500 R/TOURING SLE/ FORMULA SL

HIGH ALTITUDE KIT (P/N 861 746 800)

DRIVE PULLEY

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

DRIVEN PULLEY

Altitude / Clutching	Qty	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	1	Orange	←	←	←	←
Spring	1	Beige	←	←	←	←
Spring tension	—	5 kg 10.5 lb	5.5 kg 12 lb	←	←	←
Cam angle (deg.)	1	44°	←	←	←	←

CHAINCASE

Altitude / Gearing	Qty	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Top sprocket (Skandic 500 R, Touring SLE)	1	21	←	←	←	←
Top sprocket (Formula SL)	1	22	←	←	←	←
Bottom sprocket	1	44	←	←	←	←
Chain, quantity links	1	72	←	←	←	←
Sprocket, 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.

CARBURATION

Altitude / Calibration	Qty	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Main jet	PTO MAG	190 180	170 160	150 140	140 130	130 120
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 valve position	—	1.3	←	1.65	1.70	1.75

MAIN JET CHART

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

HIGH ALTITUDE KIT (P/N 861 747 600)

DRIVE PULLEY

Altitude / Clutching	Qty	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
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

Altitude / Clutching	Qty	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	1	Blue	←	←	←	←
Spring tension	—	7.7 kg 17 lb	←	←	←	←
Cam angle (deg.)	1	35°-50°	←	←	←	←

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.

CARBURATION

Altitude / Calibration	Qty	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 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 valve position	—	1.3	←	←	←	←

MAIN JET CHART

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

HIGH ALTITUDE KIT (P/N 861 745 400)

DRIVE PULLEY

Altitude / Clutching	Qty	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring (GT 470)	1	Blue/Pink	Blue/Violet	←	←	←
Spring (MX)	1	Blue/Yellow	Blue/Violet	←	←	←
Ramp	3	STD	420 480 284	←	←	←
Cal. screw position (GT 470)	—	5	2	3	4	5
Cal. screw position (MX)	—	4	2	3	4	5
Pin (GT 470)	3	STD	420 429 140	←	←	←
Pin (MX)	3	STD	←	←	←	←
Lever	3	STD	←	←	←	←
Engagement RPM	—	3400-3600	←	←	←	←
Max. RPM	—	7300-7500	←	←	←	←

DRIVEN PULLEY

Altitude / Clutching	Qty	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring (GT 470)	1	Orange	←	←	←	←
Spring (MX)	1	Beige	←	←	←	←
Spring tension	—	6 kg 13.5 lb	←	←	←	←
Cam angle (deg.)	1	44°	←	←	←	←

CHAINCASE

Altitude / Gearing	Qty	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Top sprocket	1	23	←	←	←	←
Bottom sprocket	1	44	←	←	←	←
Chain, quantity links	1	72	←	←	←	←
Sprocket, 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.

CARBURATION

Altitude / Calibration	Qty	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Main jet	PTO MAG	290 280	260 250	220 220	210 210	200 200
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 valve position	—	1.6	1.70	1.75	1.80	1.85

MAIN JET CHART

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

HIGH ALTITUDE KIT (P/N 861 745 300)

DRIVE PULLEY

Altitude / Clutching	Qty	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	1	Pink/White	←	←	←	←
Ramp	3	STD	504 096 400	←	←	←
Cal. screw position	—	3	←	4	5	←
Pin	3	STD	←	←	←	←
Lever	3	STD	←	←	←	←
Engagement RPM	—	4300-4500	←	5000	←	←
Max. RPM	—	8100	←	←	←	←

DRIVEN PULLEY

Altitude / Clutching	Qty	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	1	Beige	←	←	←	←
Spring tension	—	6.5 kg 13.5 lb	←	←	←	←
Cam angle (deg.)	1	44°	←	←	←	←

CHAINCASE

Altitude / Gearing	Qty	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Top sprocket	1	23	←	←	←	←
Bottom sprocket	1	44	←	←	←	←
Chain, quantity links	1	72	←	←	←	←
Sprocket, 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.

CARBURATION

Altitude / Calibration	Qty	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Main jet	PTO MAG	270 270	240 240	220 220	195 195	175 175
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 valve position	—	1.8	2.0	2.2	2.4	2.6

MAIN JET CHART

Altitude / Temperature		Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 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°.

HIGH ALTITUDE KIT (P/N 861 745 600)

DRIVE PULLEY

Altitude / Clutching	Qty	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 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 / Clutching	Qty	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	1	Beige	←	←	←	←
Spring tension	—	6 kg 13.5 lb	←	←	←	←
Cam angle (deg.)	1	50°	←	44°	←	←

CHAINCASE

Altitude / Gearing	Qty	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Top sprocket	1	25	←	←	←	←
Bottom sprocket	1	44	←	←	←	←
Chain, quantity links	1	74	←	←	←	←
Sprocket, 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.

CARBURATION

Altitude / Calibration	Qty	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Main jet	PTO MAG	360 370	320 330	300 310	280 290	260 270
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 valve position	—	1.5	1.6	1.65	1.7	1.75

MAIN JET CHART

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

HIGH ALTITUDE KIT (P/N 861 745 500)

DRIVE PULLEY

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

DRIVEN PULLEY

Altitude / Clutching	Qty	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	—	Beige	←	←	←	←
Spring tension	—	6 kg 13.5 lb	←	←	←	←
Cam angle (deg.)	—	47°	←	←	←	←

CHAINCASE

Altitude / Gearing	Qty	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Top sprocket	—	25	←	←	←	←
Bottom sprocket	—	44	←	←	←	←
Chain, quantity links	—	74	←	←	←	←
Sprocket, 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.

CARBURATION

Altitude / Calibration	Qty	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Main jet	PTO MAG	360 370	320 330	310 320	290 300	270 280
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 valve position	—	2.15	2.35	2.5	2.65	2.75

MAIN JET CHART

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

HIGH ALTITUDE KIT (P/N 861 745 200)

DRIVE PULLEY

Altitude / Clutching	Qty	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
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

Altitude / Clutching	Qty	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	1	Beige	←	←	←	←
Spring tension	—	6 kg 13.5 lb	←	←	←	←
Cam angle (deg.)	1	50°	44°	←	←	←

CHAINCASE

Altitude / Gearing	Qty	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Top sprocket	1	25	←	←	←	←
Bottom sprocket	1	44	←	←	←	←
Chain, quantity links	1	74	←	←	←	←
Sprocket, 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.

CARBURATION

Altitude / Calibration	Qty	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Main jet	PTO MAG	320 330	280 290	250 270	230 250	210 230
Jet needle	2	6DHN44	←	←	←	←
Needle position	—	3	←	←	←	←
Cut-away	2	2.5	←	←	←	←
Pilot jet	2	40	←	←	←	←
Air screw	—	1.5	←	PTO 1.5 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 valve position	—	1.6	1.7	1.75	1.80	1.85

MAIN JET CHART

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

HIGH ALTITUDE KIT (P/N 861 745 100)

DRIVE PULLEY

Altitude / Clutching	Qty	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
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

Altitude / Clutching	Qty	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	1	Beige	←	←	←	←
Spring tension	—	6 kg 13.5 lb	←	←	←	←
Cam angle (deg.)	1	47°	←	←	←	←

CHAINCASE

Altitude / Gearing	Qty	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Top sprocket	1	26	←	←	←	←
Bottom sprocket	1	44	←	←	←	←
Chain, quantity links	1	74	←	←	←	←
Sprocket, 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.

CARBURATION

Altitude / Calibration	Qty	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Main jet	PTO MAG	360 370	320 330	310 320	290 300	270 280
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 valve position	—	2.15	2.35	2.5	2.65	2.75

MAIN JET CHART

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

HIGH ALTITUDE KIT (P/N 861 745 000)

DRIVE PULLEY

Altitude / Clutching	Qty	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
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

Altitude / Clutching	Qty	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	1	Beige	←	←	←	←
Spring tension	—	6 kg 13.5 lb	←	←	←	←
Cam angle (deg.)	1	50°	44°	←	←	←

CHAINCASE

Altitude / Gearing	Qty	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Top sprocket	1	25	←	←	←	←
Bottom sprocket	1	44	←	←	←	←
Chain, quantity links	1	74	←	←	←	←
Sprocket, 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.

CARBURATION

Altitude / Calibration	Qty	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Main jet	PTO MAG	340 340	310 310	290 300	270 280	250 260
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 valve position	—	1.80	1.90	1.95	2.00	2.05

MAIN JET CHART

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

HIGH ALTITUDE KIT (P/N 861 744 900)

DRIVE PULLEY

Altitude / Clutching	Qty	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	—	Pink/White	←	←	←	←
Ramp	—	STD	←	←	←	←
Cal. screw position	—	4	1	2	3	4
Pin	3	STD	420 429 140	←	←	←
Lever	—	STD	←	←	←	←
Engagement RPM	—	4300-4500	←	←	←	←
Max. RPM	—	8300-8500	←	←	←	←

DRIVEN PULLEY

Altitude / Clutching	Qty	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	—	Beige	←	←	←	←
Spring tension	—	6 kg 13.5 lb	←	←	←	←
Cam angle (deg.)	1	50°	44°	←	←	←

CHAINCASE

Altitude / Gearing	Qty	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Top sprocket	—	25	←	←	←	←
Bottom sprocket	—	44	←	←	←	←
Chain, quantity links	—	74	←	←	←	←
Sprocket, 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.

▼ 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).

CARBURATION

Altitude / Calibration	Qty	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Main jet PTO/CTR/MAG	—	320/ 320/320	290/ 290/290	270/ 270/270	250/ 250/250	230/ 230/230
Jet needle	—	6DHZ43	←	←	←	←
Needle position	—	4	←	←	←	←
Cut-away	—	2.5	←	←	←	←
Pilot jet	—	40	50	←	←	55
Air screw 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 valve position	—	1.4	1.7	1.8	1.9	2.0

MAIN JET CHART

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

HIGH ALTITUDE KIT (P/N 861 744 800)

DRIVE PULLEY

Altitude / Clutching	Qty	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
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

Altitude / Clutching	Qty	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	1	Beige	←	←	←	←
Spring tension	—	6.5 kg 13.5 lb	←	←	←	←
Cam angle (deg.)	1	47°	←	←	←	←

CHAINCASE

Altitude / Gearing	Qty	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Top sprocket	1	26	←	←	←	←
Bottom sprocket	1	44	←	←	←	←
Chain, quantity links	1	74	←	←	←	←
Sprocket, 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.

CARBURATION

Altitude / Calibration	Qty	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Main jet	PTO MAG	430 410	380 360	340 330	310 300	290 280
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 valve position	—	2.25	2.40	2.45	2.50	2.60

MAIN JET CHART

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

HIGH ALTITUDE KIT (P/N 861 744 700)

DRIVE PULLEY

Altitude / Clutching	Qty	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
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

Altitude / Clutching	Qty	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	1	Beige	←	←	←	←
Spring tension	—	5 kg 12 lb	6.5 kg 15 lb	←	←	←
Cam angle (deg.)	1	50°	←	←	←	←

CHAINCASE

Altitude / Gearing	Qty	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Top sprocket	1	26	←	←	←	←
Bottom sprocket	1	44	←	←	←	←
Chain, quantity links	1	74	←	←	←	←
Sprocket, 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.

CARBURATION

Altitude / Calibration	Qty	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Main jet PTO/CTR/MAG	—	390/ 380/400	330/ 320/330	300/ 290/300	270/ 260/270	240/ 230/240
Jet needle	3	8AGY01-41	←	←	←	←
Needle position	—	3	2	←	←	1
Cut-away	—	2.0	←	←	←	←
Pilot jet PTO/CTR/MAG	—	40/45/45	←	←	←	←
Air screw PTO/CTR/MAG	—	4.5/4.0/3.5	←	3.375/ 3.0/2.625	2.250/ 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 valve position	—	1.2	1.6	1.8	2.0	2.2

MAIN JET CHART

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

SEA LEVEL TECHNICAL DATA - 1995 MODELS

1995 - SUMMIT 583

SEA LEVEL KIT (P/N 861 745 600)

DRIVE PULLEY

Altitude / Clutching	Qty	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 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 / Clutching	Qty	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	1	Beige	←	←	←	←
Spring tension	—	6 kg 13.5 lb	←	←	←	←
Cam angle (deg.)	1	44°	←	←	←	←

CHAINCASE

Altitude / Gearing	Qty	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Top sprocket	1	23	←	←	←	←
Bottom sprocket	1	44	←	←	←	←
Chain, quantity links	1	72	←	←	←	←
Sprocket, 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.

CARBURATION

Altitude / Calibration	Qty	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Main jet	—	PTO 380 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 valve position	—	2.2	2.4	2.55	2.7	2.9

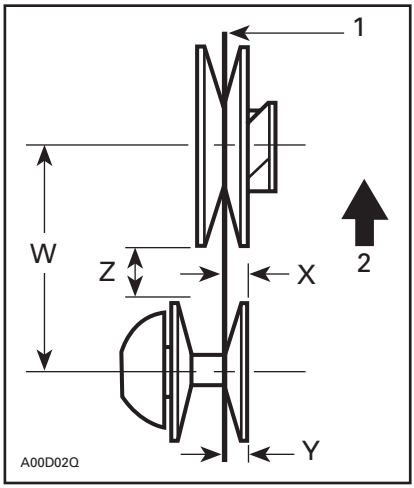
MAIN JET CHART

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

ANNEXE A

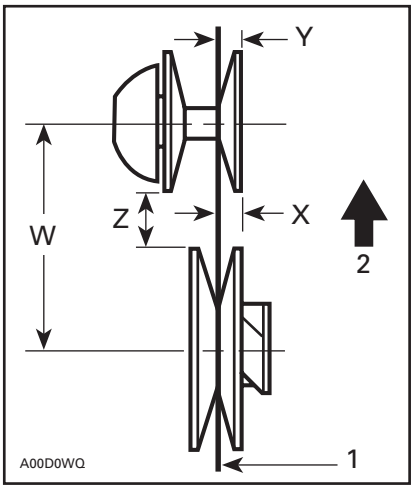
PULLEY ALIGNMENT - 1994 MODELS (as an example)

ÉLAN AND ALPINE II



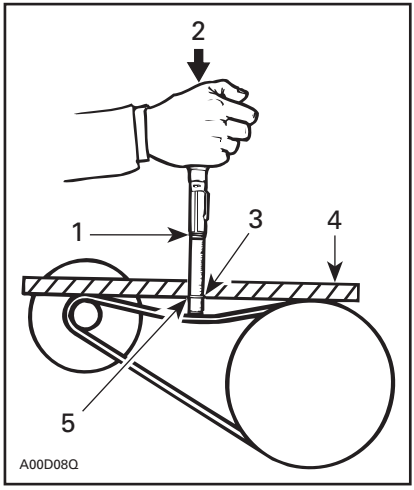
1. Straight bar
2. Front

ALL OTHERS



1. Straight bar
2. Front

DRIVE BELT DEFLECTION MEASUREMENT



BELT TENSION TESTER (P/N 414 348 200)

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 OVER DRIVEN PULLEY	DRIVEN PULLEY AXIAL FREE PLAY
	mm (in)	mm (in)	mm (in)	+ 0, - 1 mm (+ 0, - 0.040 in)	mm (in)	kg (lb)	mm (in)	mm (in)
Élan	268 (10-9/16)	32.8 ± 0.4 (1-9/16 ± 1/64)	0 ± 0.75 (0 ± 1/32)	40 (1-3/32)	33 ± 3 (1-5/16 ± 1/8)	5 (11)	N.A.	N.A.
Alpine II	284 (11-3/16)	36.0 ± 0.4 (1-7/16 ± 1/64)	1.12 ± 0.38 (3/64 ± 1/64)	43 (1-11/16)	32 ± 5 (1-1/32 ± 3/16)	6.8 (15)	N.A.	N.A.
All Tundra	269.5 (10-5/8)	36.0 ± 0.4 (1-7/16 ± 1/64)	0.75 ± 0.75 (1/32 ± 1/32)	36.5 (1-7/16)	32 ± 5 (1-1/32 ± 3/16)	6.8 (15)	N.A.	N.A.
All Skandic and Safari	268.3 (10-9/16)	37.0 ± 0.4 (1-7/16 ± 1/64)	0.75 ± 0.75 (1/32 ± 1/32)	27.0 (1-1/16)	32 ± 5 (1-1/32 ± 3/16)	6.8 (15)	0.75 ± 0.75 (1/32 ± 1/32)	N.A.
Mach 1 and All Grand Touring	268.3 (10-9/16)	36.0 ± 0.5 (1-7/16 ± 1/64)	1.5 ± 0.5 (1/16 ± 1/64)	27.0 (1-1/16)	32 ± 5 (1-1/32 ± 3/16)	6.8 (15)	0.75 ±0.75 (1/32 ± 1/32)	2.5 ± 0.5 (3/32 ± 1/64)
Formula Z, ST, STX, MX, MX Z, Summit 470 and Summit 583	257.5 (10-1/8)	35.0 ± 0.5 (1-3/8 ± 1/64)	1.5 ± 0.5 (1/16 ± 1/64)	16.5 (21/32)	32 ± 5 (1-1/32 ± 3/16)	6.8 (15)	0.75 ± 0.75 (1/32 ± 1/32)	0.5 ± 0.5 (1/64 ± 1/64)
Mach Z and Summit 670	257.5 (10-1/8)	35.0 ± 0.5 (1-3/8 ± 1/64)	1.5 ± 0.5 (1/16 ± 1/64)	16.5 (21/32)	32 ± 5 (1-1/32 ± 3/16)	6.8 (15)	2.25 ± 0.75 (3/32 ± 1/32)	0.5 ± 0.5 (1/64 ± 1/64)

TO GET ADDITIONAL COPIES, ORDER:

High altitude technical data sheets (1995-1999): P/N 484 300 003 (binder sold separately).

Three-ring binder (8-1/2 x 5-1/2): P/N 484 054 500.

To maintain your booklet accurate and up to date, each year Bombardier makes available in the fall a revised and updated edition of the high altitude technical data sheets. The 1996-2000 sheets will be available in the fall of 1999.

NOTE: Order them through your regular parts channels.

BOMBARDIER SERVICE PUBLICATIONS REPORT

Bombardier's Technical Publications Department strives to maintain the highest possible standards, but occasionally slip-ups do occur and we appreciate your bringing it to our attention. Just fill in and mail the pre-addressed card below. Feel free to write in your suggestions also.

CUT ALONG DOTTED LINE

Bombardier SERVICE PUBLICATIONS REPORT

Publication title and year _____ Page _____

Vehicle _____ ☐ Report of Error ☐ Suggestion

_____

_____

_____

_____

_____

_____

Name _____

Address _____

City and State/Prov. _____ Date _____

Zip code/Postal code _____

AFFIX
PROPER
POSTAGE

BOMBARDIER
RECREATIONAL PRODUCTS
TECHNICAL PUBLICATION
VALCOURT (QUEBEC)
CANADA J0E 2L0