1994
1998

HIGH ALTITUDE TECHNICAL DATA

Litho'd In Canada

484 0686 00

High altitude and Sea level technical data

1994-98

Litho'd in Canada (MMT-9802 MD)

Printed in Canada

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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 compression pressure.

The total loss of power output from the engine will be about 3 percent per 1000 ft of elevation increase. An engine that produces 50 horsepower at sea level will, then, produce about 48.5 horsepower at 1000 ft, 47 horsepower at 2000 ft and only 36.8 horsepower at 10,000 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: AII 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 before, 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 1995 and 1994 Summits below 4000 ft 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 1995 and 1994 sea level sections are following the high altitude sections.

BOMBARDIER LITE DRIVE PULLEY

CALIBRATION PARTS

BOMBARDIER LITE CLUTCH

A03D2JQ

BOMBARDIER NO.	COLOR	SPRING PRESSURE 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 1156 00	Blue	255 (57)	507 (114)	11.45 (65.4)	86 (3.39)
417 1159 00	Turquoise	258 (58)	605 (136)	13.36 (76.3)	85 (3.35)
417 1184 00	Red/Blue on Violet	564 (127)	951 (214)	17.60 (100.5)	102 (4.02)
417 1185 00	Yellow/Green on Violet	392 (88)	888 (199)	22.5 (128.5)	82 (3.23)

CENTRIFUGAL BLOCKS

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

CALIBRATION WEIGHTS

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

DRIVE PULLEY SPRINGS

THE FOLLOWING REFERENCES ARE USED IN CHARTS:

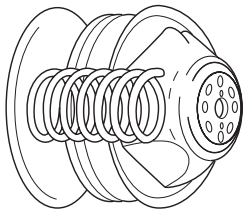
(1) Length of spring when installed in clutch and clutch in fully "open" position.

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

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

TRA CLUTCH SPRINGS

- 1 -



A01D11Q

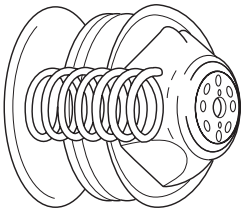
BOMBARDIER NO.	COLOR	SPRING PRESSURE N @ 74 mm (lbf @ 2.9 in) (1)	SPRING PRESSURE N @ 41 mm (lbf @ 1.6 in) (2)	SPRING RATE N/mm (lbf/in) (3)	FREE LENGTH mm (in)
414 6390 00	BL - OR	580 (130)	890 (200)	9.4 (53.6)	135.5 (5.33)
414 6056 00	WH	667 (150)	1077 (242)	12.1 (68.9)	128.7 (5.07)
414 6897 00	YL - OR	455 (102)	890 (200)	13.2 (75.2)	105.7 (4.16)
414 6895 00	BL - YL	580 (130)	102.5 (230)	13.5 (76.8)	115.1 (4.53)
420 4380 99	RD - RD	320 (72)	770 (173)	13.7 (77.9)	96.3 (3.79)
414 6055 00	YL	455 (102)	1200 (270)	14.8 (84.2)	122 (4.80)
414 7486 00	YL - YL	454 (102)	1024 (229.5)	17.3 (98.6)	100.3 (3.95)
414 8177 00	BL - GN	579 (129.7)	1157 (259.3)	17.5 (99.7)	105.7 (4.16)
414 7421 00	YL - GN	455 (102)	1157 (260)	21.3 (121.2)	94 (3.7)
414 8175 00	RD - YL	318 (71.3)	1024 (229.5)	21.4 (121.7)	87.9 (3.46)
414 6894 00	BL - BL	580 (130)	1290 (290)	21.5 (122.6)	99.8 (3.93)
414 8179 00	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 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 8180 00	YL - BL	454 (101.7)	1290 (289.1)	25.3 (144.5)	91.0 (3.58)
414 6892 00	RD - GN	320 (72)	1157 (260)	25.4 (144.6)	85.9 (3.38)
414 8177 00	BL - GN	580 (130)	1157 (260)	17.52 (122.7)	105.7 (4.16)
414 7010 00	RD - VI	320 (72)	1420 (320)	33.52 (140.7)	83 (3.27)
414 7682 00	GN - BL ①	750 (162)	1290 (290)	12.12 (68.9)	144.3 (5.68)
414 8178 00	BL - VI	580 (130)	1420 (320)	25.61 (145.7)	96.6 (3.80)
414 7542 00	PI - VI ②	1025 (230)	1425 (320)	12.15 (68.9)	154.7 (6.09)
414 7628 00	GN - VI ③	667 (160)	1425 (320)	16.21 (92.2)	126.7 (4.99)
414 7569 00	GN - PI ④	667 (160)	1650 (350)	20.21 (115)	116.1 (4.57)
414 9163 00	BL - PI ⑤	580 (130)	1650 (350)	29.65 (169.3)	93.5 (3.68)
414 9930 00	YL - RD	445 (100)	756 (170)	9.42 (54)	121.1 (4.77)
414 9914 00	PI - WH	1023 (230)	1690 (380)	20.2 (115.5)	124.5 (4.90)

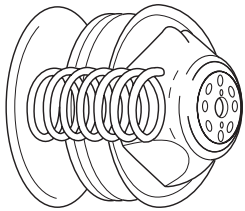
BL: Blue GN: Green OR: Orange PI: Pink RD: Red
VI: Violet WH: White YL: Yellow

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 CLUTCH SPRINGS

- 3 -



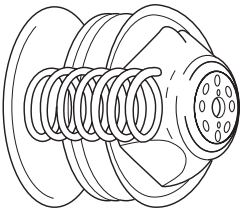
A01D11Q

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 0349 00	VI - BL	712 (160)	1290 (290)	17.52 (100)	114.6 (4.512)
415 0154 00	VI - GN	712 (160)	1157 (260)	13.48 (76.97)	133.5 (5.256)
414 6898 00	RD - RD	320 (72)	770 (173)	13.76 (78.57)	96.3 (3.79)
414 6915 00	RD - BL	320 (72)	1290 (290)	29.45 (168.16)	84.1 (3.31)
415 0153 00	VI - YL	712 (160)	1023 (230)	9.42 (53.78)	157.9 (6.217)
415 0152 00	RD - OR	311 (70)	890 (200)	17.55 (100.21)	91.2 (3.591)

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.

IDENTIFICATION CHARTS



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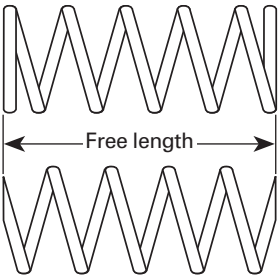
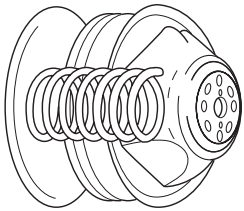
Type "A"



Type "B"

A01D12Q

ROUND SHAFT CLUTCH SPRING

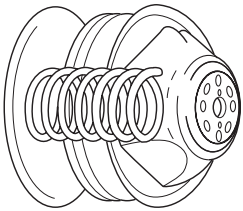


A01D11Q

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 2580 00	Bronze	41	66	34	3.20	A
414 4422 00 ①	Black	75	101	35	4.13	B
414 1697 00	Light Blue	105	135	39	4.69	A
414 0013 00	Black	44	77	44	3.0	A
414 4423 00 ①	Yellow	83	124	55	3.50	B
414 2581 00	Blue	71	121	67	3.06	A
414 2328 00	Gold	91	164	98	2.93	A

① Spring seat differs from original

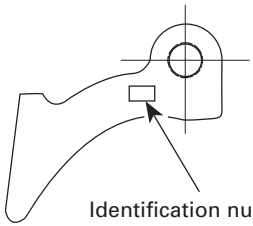
SQUARE SHAFT CLUTCH SPRINGS



A01D11Q

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

TRA CLUTCH RAMPS



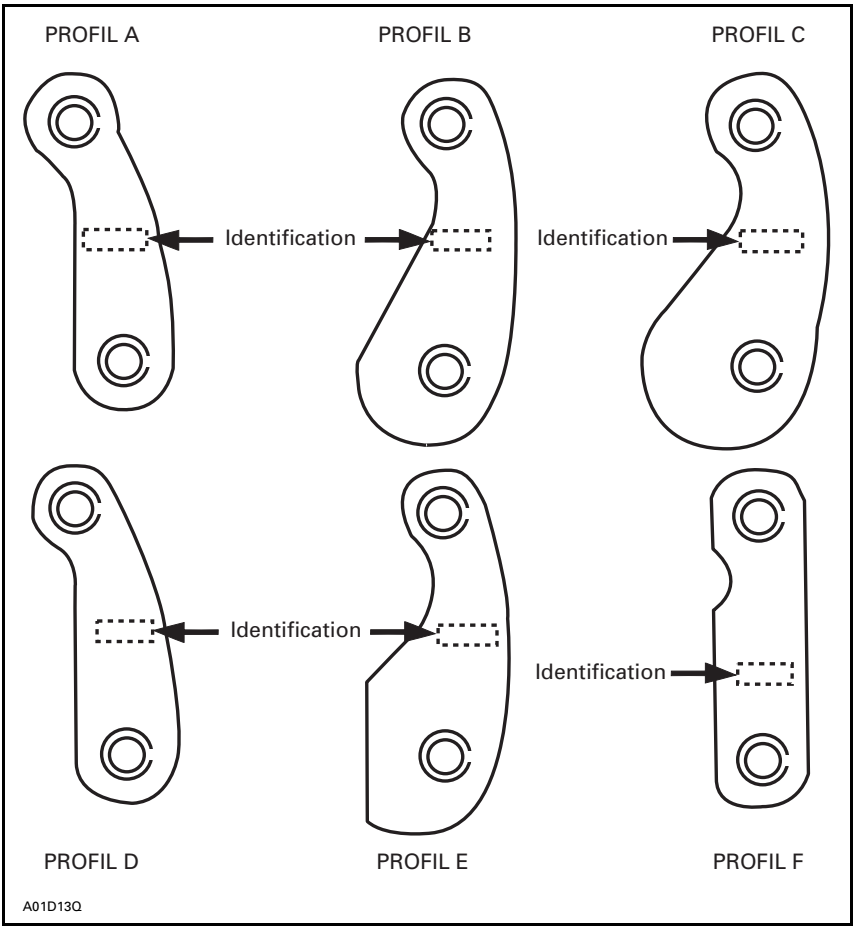
A01D18Q

PART NUMBER	IDENTIFICATION
417 0051 46	146
417 0052 28	228
417 0052 81	281
417 0052 85	285
417 0052 86	286
417 0052 87	287
417 0052 89	289
417 0052 90	290
417 0052 91	291
417 0052 92	292
417 0052 93	293

PART NUMBER	IDENTIFICATION
420 4801 44	144
420 4801 45	145
420 4801 46	146
420 4801 49	149
420 4802 21	221
420 4802 21	223 or 226
420 4802 26	226
420 4802 27	227
420 4802 28	228
420 4802 80	280
504 0699 00	0699
504 2594 00	DA9

DRIVE PULLEY PRESSURE LEVER IDENTIFICATION

- 1-



DRIVE PULLEY PRESSURE LEVER IDENTIFICATION

- 2-

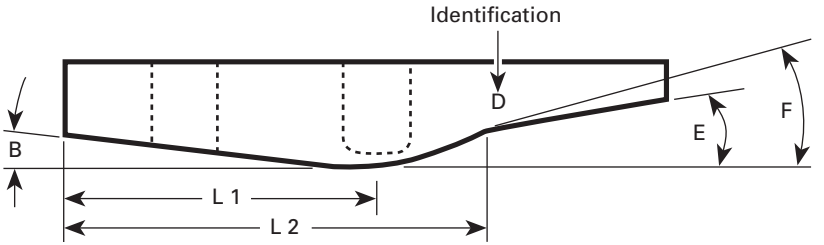
PROFIL	IDENTIFICATION	WEIGHT (g)
A	A-2-S	21.70
A	A-3-S	23.80
A	A-3-S-H	22.10
A	A-4-S	26.16
A	A-5-S	27.05
A	A-6-S	32.30
A	A-8-S	38.45
B	B-1-K-S	24.30
B	B-2-K-S	26.00
B	B-2-K-S-H	26.00
B	B-3-K-S-H	28.30
C	C-3-L-S	33.75
C	C-4-L	36.85
C	C-4-L-S	36.85
C	C-4-L-S-H	34.95

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

Calibration washers (2 ramp models) P/N 391 3022 00

Small calibration washers (3 ramp models) P/N 391 3021 00

DRIVE PULLEY RAMP IDENTIFICATION
- 1-

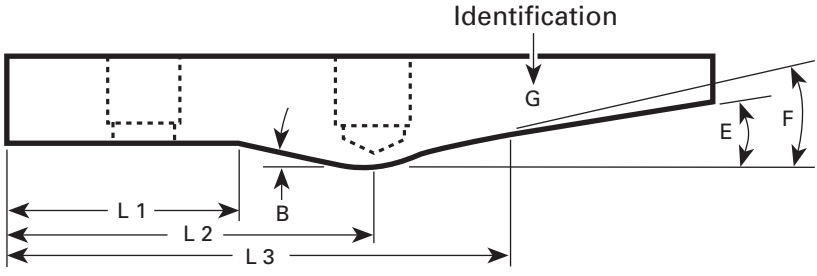


A01D14Q

RAMP NO.	ANGLE B	ANGLE E	ANGLE F	L1	L2	IDENTIFICATION
				mm (in)		
504 2488 00	5°	15°	18°	31.12 (1.225)	40.64 (1.600)	**D**

DRIVE PULLEY RAMP IDENTIFICATION

-2-

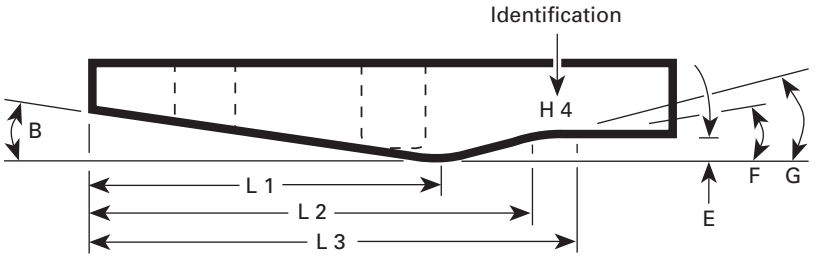


A01D15Q

RAMP NO.	ANGLE B	ANGLE E	ANGLE F	L1	L2	L3	IDENTIFICATION
				mm (in)			
504 2503 00	8°	12°	14°	19.00 (.748)	30.50 (1.201)	44.45 (1.750)	**G**
504 2542 00	8°	11°	14°	19.00 (.748)	30.50 (1.201)	43.00 (1.693)	**S1**

DRIVE PULLEY RAMP IDENTIFICATION

-3-

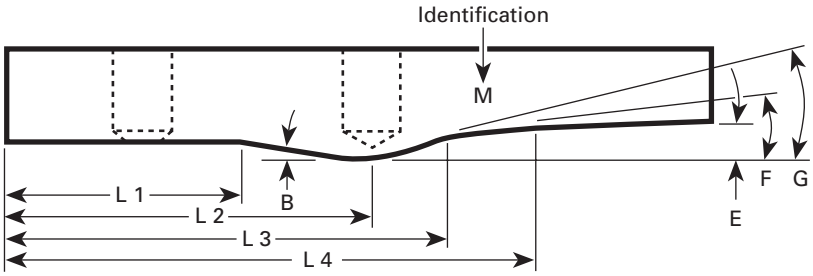


A01D16Q

RAMP NO.	ANGLE B	ANGLE E	ANGLE F	ANGLE G	L1	L2	L3	IDENTIFICATION
					mm (in)			
504 2552 00	11.5°	7°	8°	9°	29.50 (1.161)	39.90 (1.571)	42.90 (1.689)	**H4**

DRIVE PULLEY RAMP IDENTIFICATION

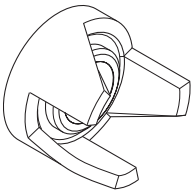
-4-



A01D17Q

RAMP NO.	ANGLE B	ANGLE E	ANGLE F	ANGLE G	L1	L2	L3	L4	IDENTIFICATION
					mm (in)				
504 0574 00	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 1355 00	2	36°
504 0874 00	4	37.8°
504 1380 00	4	37.8°
504 0921 00	3	40°
504 1374 00	2	40°
504 0960 00	3	44°
504 1348 00	2	44°
504 1282 00	1	44°
504 1363 00	2	50°
504 1401 00	3	50°
504 0961 00	3	50°
504 1390 00	2	53°
504 1409 00	3	47°

NOTE: 1 - 87.8 mm dia./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

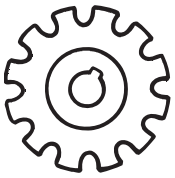
- 1 -

A01D1AQ

PART NO.	TEETH	TYPE	SHAFT (in)	SPLINES	PITCH (in)
504 0008 00	10	Single	3/4	**8**	1/2
504 0013 00	25	Single	1	**10**	1/2
504 0541 00	12	Single	1	**15**	1/2
504 0885 00	14	Single	1	**15**	1/2
504 0542 00	15	Single	1	**15**	1/2
504 0886 00	25	Single	1	**15**	1/2
504 0543 00	27	Single	1	**15**	1/2
504 0091 00	14	Double	3/4	**8**	3/8
504 0044 00	15	Double	3/4	**8**	3/8
504 0130 00	33	Double	1	**10**	3/8
504 0045 00	34	Double	1	**10**	3/8
504 0129 00	35	Double	1	**10**	3/8
504 0522 00	37	Double	1	**10**	3/8
504 0508 00	38	Double	1	**10**	3/8
504 0521 00	39	Double	1	**10**	3/8
504 0124 00	15	Double	1	**15**	3/8
504 0106 00	16	Double	1	**15**	3/8
504 0085 00	18	Double	1	**15**	3/8
504 0082 00	19	Double	1	**15**	3/8
504 0435 00	16	Triple	3/4	**8**	3/8
504 0440 00	21	Triple	1	**10**	3/8
504 0522 00	37	Triple	1	**10**	3/8
504 0235 00	38	Triple	1	**10**	3/8
504 0399 00	40	Triple	1	**10**	3/8
420 4349 10	17	Triple	1	**15**	3/8
504 0436 00	17	Triple	1	**15**	3/8
504 0438 00	19	Triple	1	**15**	3/8
504 0645 00	46	Triple	1	**15**	3/8
504 0667 00	54	Triple	1	**15**	3/8

SPROCKET IDENTIFICATION CHART

- 2 -



A01D1AQ

PART NO.	TEETH	TYPE	SHAFT (in)	SPLINES	PITCH (in)
420 4349 00	17	Silent	1	**15**	3/8
504 0718 00	17	Silent	1	**15**	3/8
504 0701 00	18	Silent	1	**15**	3/8
414 6805 00	19	Silent	1	**15**	3/8
504 0748 00 (heavy duty)	20	Silent	1	**15**	3/8
504 0840 00	21	Silent	1	**15**	3/8
504 0912 00	21	Silent	1	**15**	3/8
504 1515 00	21	Silent	1	**15**	3/8
504 0560 00	22	Silent	1	**15**	3/8
504 0747 00 (heavy duty)	22	Silent	1	**15**	3/8
504 0911 00	22	Silent	1	**15**	3/8
504 0784 00	23	Silent	1	**15**	3/8
504 0854 00	23	Silent	1	**15**	3/8
504 0878 00	23	Silent	1	**15**	3/8
504 0910 00	23	Silent	1	**15**	3/8
504 0786 00	24	Silent	1	**15**	3/8
504 0909 00	24	Silent	1	**15**	3/8
504 0841 00	25	Silent	1	**15**	3/8
504 0843 00	25	Silent	1	**15**	3/8
504 0852 00	25	Silent	1	**15**	3/8
504 0559 00	26	Silent	1	**15**	3/8
504 0853 00	26	Silent	1	**15**	3/8
504 1484 00	27	Silent	1	**15**	3/8
504 0890 00	40	Silent	1	**15**	3/8
504 0709 00	44	Silent	1	**15**	3/8
504 0844 00	44	Silent	1	**15**	3/8
581 0968 00	44	Silent	1	**15**	3/8
504 0882 00	44	Silent	1	**15**	3/8

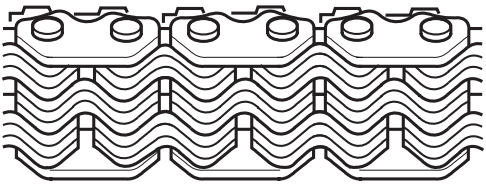
SPROCKET IDENTIFICATION CHART

- 3 -

A01D1AQ

PART NO.	TEETH	TYPE	SHAFT (in)	SPLINES	PITCH (in)
504 0564 00	38	Silent	1-1/8	**17**	3/8
504 0562 00	40	Silent	1-1/8	**17**	3/8
504 0573 00	44	Silent	1-1/8	**17**	3/8
504 0855 00	44	Silent	1-1/8	**17**	3/8
504 1485 00	43	Silent	1-1/8	**17**	3/8
504 1486 00	43	Silent	1-1/8	**17**	3/8
414 6526 00	44	Silent	1-13/16	**29**	3/8

DRIVING CHAINS



A00D10Q

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

CHAINCASE SPROCKETS/ DRIVE CHAIN LENGTH CONVERSION CHARTS

SAFARI CITATION/E 1989-1990
CITATION/E 1991
TUNDRA/LT 1987 to 1994
ÉLAN 1994

Available Parts

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

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

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

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

SAFARI LC/GLX 1990-1991
SAFARI LX/LXE 1990 to 1992
SAFARI L/LE/DL 1990 to 1993
SCOUT 1991-1992
SAFARI LCE/GLX 1992
SAFARI II 1992-1994
SAFARI RALLY 1993
SAFARI L/DL 1994

Available Parts

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

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

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

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

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

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

FORMULA MX SERIES 1989 to 1992
FORMULA PLUS SERIES 1989 to 1992
FORMULA MACH 1 SERIES 1989 to 1992
FORMULA GRAND TOURING 1993
GRAND TOURING/XTC/SE 1994
MACH 1/Z 1994
SUMMIT 583/470 1994
MX/Z 1994
FORMULA ST/STX/Z 1994

Available Parts

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

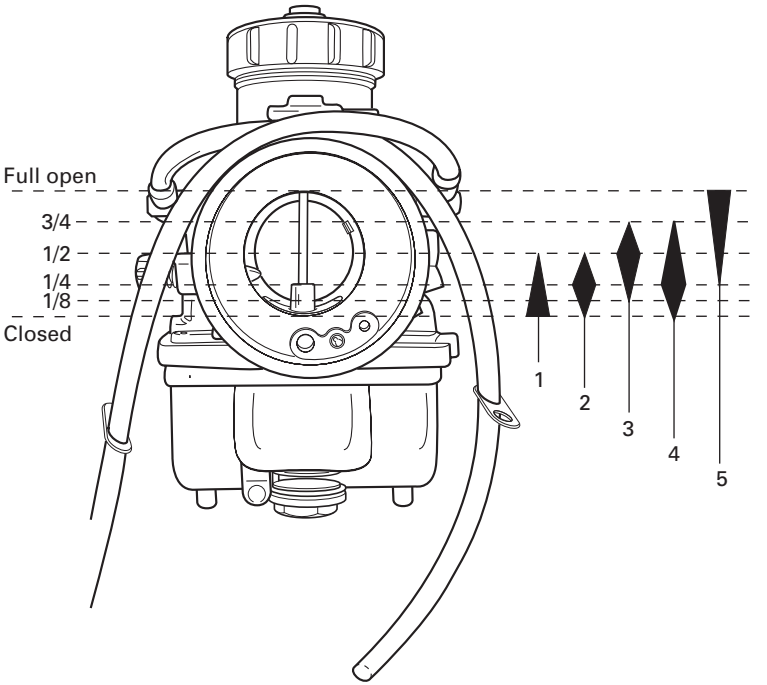
UPPER SPROCKET, SILENT, 3/8" PITCH, 1" SHAFT, 15 SPLINES			
NB OF TEETH	P/N	NB OF TEETH	P/N
20	504 0748 00	24	504 0786 00
21	504 0840 00	25	504 0841 00
22	504 0747 00	25	504 0843 00
23	504 0784 00	26	504 0559 00
23	504 0854 00	26	504 0853 00

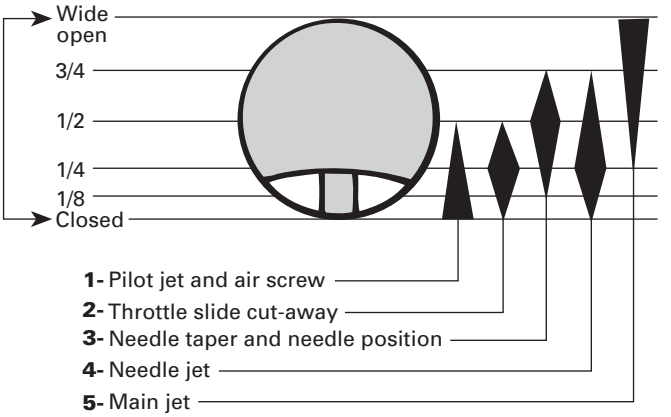
LOWER SPROCKET, SILENT, 3/8" PITCH, 1-1/8" SHAFT, 17 SPLINES			
NB OF TEETH	P/N	NB OF TEETH	P/N
38	504 0564 00	44	504 0855 00
40	504 0562 00	44	504 0844 00 (Grand Touring)
44	504 0573 00		

CHAIN LENGTH CONVERSION CHART			
UPPER SPROCKET	LOWER SPOCKET		
	38	40	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.

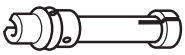
A01A1VQ

CARBURETOR MAIN JETS

A01C2CQ

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

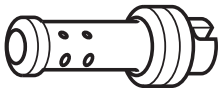
CARBURETOR NEEDLE JETS



A01C2CQ

MIKUNI NO.	BOMBARDIER NO.	MIKUNI NO.	BOMBARDIER NO.
LEAN		LEAN	
(159) N-2	404 1477 00	(224) BB-0	404 1140 00
(159) N-4	404 1473 00	(224) BB-5	404 1131 00
(159) N-6	404 1543 00	(224) CC-0	404 1166 00
(159) O-0	404 1302 00	(224) Z-5	404 1278 00
(159) O-2	404 1479 00	(224) Z-8	404 1484 00
(159) O-8	404 1169 00	(286) P-0	404 1585 00
(159) P-0	404 1070 00	(327) O-3	404 1618 03
(159) P-2	404 1007 00	(480) O-4	404 1521 00
(159) P-4	404 1036 00	(480) O-6	404 1485 00
(159) P-6	404 1106 00	(480) O-8	404 1486 00
(159) P-8	404 1208 00	(480) O-9	404 1618 01
(159) Q-0	404 1107 00	(480) P-0	404 1332 00
(159) Q-2	404 1108 00	(480) P-1	404 1590 00
(159) Q-4	404 1142 00	(480) P-2	404 1312 00
(159) Q-8	404 1327 00	(480) P-3	404 1550 00
(166) R-0	404 1087 00	(480) P-4	404 1315 00
(182) O-8	404 1181 00	(480) P-5	404 1573 00
(224) AA-0	404 1335 00	(480) P-6	404 1480 00
(224) AA-1	404 1554 00	(480) P-7	404 1569 00
(224) AA-2	404 1483 00	(480) P-8	404 1617 00
(224) AA-3	404 1518 00	(480) P-9	404 1618 05
(224) AA-4	404 1476 00	(480) Q-3	404 1609 00
(224) AA-5	404 1267 00	(480) Q-4	404 1491 00
(224) AA-6	404 1482 00	(480) Q-6	404 1576 00
(224) AA-7	404 1528 00		
RICH		RICH	

CARBURETOR PILOT JET



A01C2EQ

MIKUNI NO.	BOMBARDIER NO.
LEAN	
#20	404 1086 00
#25	404 1103 00
#30	404 1077 00
#35	404 1027 00
#40	404 1091 00
#45	404 1094 00
#50	404 1095 00
#55	404 1139 00
#60	404 1210 00
#75	404 1481 00
RICH	

CARBURETOR JET NEEDLE

A01C2FQ

MIKUNI NO.	BOMBARDIER NO.
6BGYI5	404 1575 00
6DEH5	404 1618 00
6DEY2	404 1579 00
6DEY4	404 1599 00
6DH2	404 1104 00
6DH3	404 1269 00
6DH4	404 1019 00
6DH7	404 1113 00
6DH8	404 1244 00
6DHN43	404 1471 00
6DHN44	404 1472 00
6DHY48	404 1615 00
6DP1	404 1180 00
6DP9	404 1526 00
6EJ1	404 1105 00
6F9	404 1092 00
6FEY1	404 1568 00
6FJ6	404 1311 00
6FJ43	404 1572 00
6FL14	404 1141 00
7DH2	404 1132 00
7DH3	404 1277 00
7DL7	404 1478 00
7DPI-1	404 1577 00
7ECY1	404 1574 00
7EDY1	404 1567 00
7EGO6	404 1472 00
7EJ5	404 1334 00
7FHO1	404 1333 00
8ABY1-40	404 1618 04
8DH2	404 1393 00

CARBURETOR THROTTLE SLIDE CUT-AWAY

- 1 -

WITH RETAINING PLATE

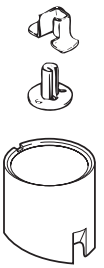
A02C0NQ

CARBURETOR	CUT-AWAY	BOMBARDIER NO.
TM 38	2.0 3.0	404 1529 00 404 1377 00
VM 28	2.0	404 1183 00
VM 30	2.0	404 1196 00
	2.5	404 1172 00
	3.0	404 1174 00 ①
VM 32	3.0	404 1303 00
	3.5	404 1171 00
VM 34	2.0	404 1196 00
	3.0	404 1174 00 ①
	3.5	404 1171 00 ①
VM38	2.0	404 1529 00

① USE WITH PACKING P/N 404 1170 00

CARBURETOR THROTTLE SLIDE CUT-AWAY

- 2 -



WITH CENTER RESTRAINING DEVICE

A02C0MQ

CARBURETOR	CUT-AWAY	BOMBARDIER NO.
VM 30	2.5	404 1284 00
VM 34	2.0	404 1286 00
	2.5	404 1284 00
	3.0	404 1232 00
VM 36	2.5	404 1547 00
VM 38	2.5	404 1313 00
VM 40	2.5	404 1134 00
	2.5	404 1285 00
	2.5	404 1323 00
VM 44	2.5	404 1323 00

HIGH ALTITUDE TECHNICAL DATA - 1998 MODELS

1998 - SKANDIC SWT

HIGH ALTITUDE KIT (P/N 861 7643 00)

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 8175 00	←	Red/Blue 414 6915 00	←	←	←
Ramp	Qty 3 x 1 417 0051 46	←	←	←	←	←
Calibration screw position	4	5	2	3	4	5
Pin	Qty 3 x 1 417 0043 09	←	←	←	←	←
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 7642 00)

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 6897 00	←	←	Blue/Green 414 8177 00	←	←
Ramp	Qty 3 x 1 417 0052 90	←	←	←	←	←
Calibration screw position	4	5	6	2	3	4
Pin	Qty 3 x 1 417 0043 09	←	←	←	←	←
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 7641 00)

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 8180 00	←	Red/Red 414 6898 00	←	←	←
Ramp	Qty 3 x 1 417 0052 90	←	←	←	←	←
Calibration screw position	4	5	3	4	5	6
Pin	Qty 3 x 1 417 0043 08	←	Qty 3 x 1 417 0043 09	←	←	←
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 7640 00)

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 1159 00	←	Yellow/Green 417 1185 00	←	←	←
Block	Qty 3 x 1 417 1143 00	←	Qty 3 x 1 417 1157 00	←	←	←
Weight	—	←	Qty 3 x 3 417 1158 00	Qty 3 x 2 ←	Qty 3 x 2 ←	Qty 3 x 1 ←
Capsule	Qty 2 x 3 417 1145 00	←	←	←	←	←
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 0943 00	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	0.00 Position1 0.00	←	←	←	←	←
Cam angle	° (degrees)	37.8 417 1241 00	←	←	←	←	←

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 7639 00)

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	Turquoise 417 1159 00	←	Blue 417 1156 00	←	←	←
Block	Qty 3 x 1 417 1143 00	←	Qty 3 x 1 417 1157 00	←	←	←
Weight	---	←	Qty 3 x 3 417 1158 00	Qty 3 x 2 ←	Qty 3 x 2 ←	Qty 3 x 1 ←
Capsule	417 1145 00	←	←	←	←	←
Engagement RPM ± 100	3100	←	←	←	←	←
Maximum RPM ± 100	6900	←	←	←	←	←

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		White 414 5099 00	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	3.6 7.9	←	5.9 13.0	←	←	←
Cam angle	° (degrees)	37.8 504 0813 00	←	←	←	←	←

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 7638 00)

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 0095 00	←	Red/Blue on Violet 417 1184 00	←	←	←
Block	417 1181 00	←	←	←	←	←
Weight	Qty 3 x 1 417 1204 00	←	Qty 3 x 5 417 1144 00	Qty 3 x 4 ←	Qty 3 x 3 ←	Qty 3 x 2 ←
Capsule	Qty 3 x 1 417 1145 00	←	←	←	←	←
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 5058 00	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	4.8 10.6	←	←	←	←	←
Cam angle	° (degrees)	44 504 0960 00	←	←	←	←	←

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 7637 00)

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 8175 00	←	Yellow/Green 414 7421 00	←	←	←
Ramp	Qty 3 x 1 417 0052 91	←	Qty 3 x 1 417 0052 92	←	←	←
Calibration screw position	3	4	2	3	4	5
Pin	Qty 3 x 1 417 0043 09	←	←	←	←	←
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 5058 00	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	4.8 10.6	←	5.5 12.1	←	←	←
Cam angle	° (degrees)	44 504 0960 00	←	←	←	←	←

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 7636 00)

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 0095 00	←	Red/Blue on Violet 417 1184 00	←	←	←
Block	417 1181 00	←	←	←	←	←
Weight	Qty 3 x 1 417 1204 00	←	Qty 3 x 5 417 1144 00	Qty 3 x 4 ←	Qty 3 x 3 ←	Qty 3 x 2 ←
Capsule	Qty 3 x 1 417 1145 00	←	←	←	←	←
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 5058 00	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	4.8 10.6	←	←	←	←	←
Cam angle	° (degrees)	44 504 0960 00	←	←	←	←	←

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 7635 00)

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/Blue 414 6915 00	←	Yellow/Green 414 7421 00	←	←	←
Ramp	Qty 3 x 1 417 0052 91	←	Qty 3 x 1 417 0052 92	←	←	←
Calibration screw position	2	3	3	4	5	6
Pin	417 0043 09	←	←	←	←	←
Engagement RPM ± 100	2900	←	3000	←	←	←
Maximum RPM ± 100	7000	←	←	←	←	←

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 5058 00	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	4.8 10.6	←	←	←	←	←
Cam angle	° (degrees)	44 504 0960 00	←	←	←	←	←

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 7634 00)

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 8175 00	←	Yellow/Green 414 7421 00	←	←	←
Ramp	Qty 3 x 1 417 0052 91	←	Qty 3 x 1 417 0052 92	←	←	←
Calibration screw position	3	4	2	3	4	5
Pin	Qty 3 x 1 417 0043 09	←	←	←	←	←
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 0928 00	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	0.00 Position 1 0.00	←	←	←	←	←
Cam angle	° (degrees)	47 - 44 417 1228 00	←	←	←	←	←

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 1748 00	←	←	←	515 1747 00	←

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 7633 00)

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 8177 00	←	←	Blue/Blue 414 6894 00	←	←
Ramp	417 0052 28	←	←	←	←	←
Calibration screw position	3	4	5	4	5	6
Pin	417 0043 09	←	←	←	←	←
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 5589 00	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	44 504 0960 00	←	←	←	←	←

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 2399 46.

▼ 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 7632 00)

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 0152 00	←	←	Violet/Blue 415 0349 00	←	←	1
Ramp	Qty 3 x 1 417 0052 85	←	←	Qty 3 x 1 417 0052 89	←	←	3
Calibration screw position	3	4	5	4	5	6	—
Pin	417 0043 09	←	←	←	←	←	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 5589 00	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	47 504 1409 00	←	←	←	←	←

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 7631 00)

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	Blue/Violet 414 8178 00	←	←	Yellow/Green 414 7421 00	←	←
Ramp	Qty 3 x 1 417 0052 86	←	←	←	←	←
Calibration screw position	3	4	5	3	4	5
Pin	Qty 3 x 1 417 0043 08	←	←	Qty 3 x 1 417 0043 09	←	←
Engagement RPM ± 100	3600	←	←	←	←	←
Maximum RPM ± 100	7900	←	←	←	←	←

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 5589 00	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	47 504 1409 00	←	←	←	←	←

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 7630 00)

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 9163 00	←	Violet/Violet 414 8179 00	←	←	←
Ramp	Qty 3 x 1 417 0052 86	←	Qty 3 x 1 417 0052 85	←	←	←
Calibration screw position	2	3	2	3	4	5
Pin	Qty 3 x 1 417 0043 08	←	Qty 3 x 1 417 0043 09	←	←	←
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 5589 00	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	47 504 1409 00	←	←	←	←	←

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 7625 00)

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 6895 00	←	Blue/Green 414 8177 00	←	←	←
Ramp	Qty 3 x 1 417 0052 91	←	Qty 3 x 1 417 0052 92	←	←	←
Calibration screw position	3	4	2	3	4	5
Pin	Qty 3 x 1 417 0043 09	←	←	←	←	←
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 5058 00	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	6.1 13.4	←	←	←	←	←
Cam angle	° (degrees)	47 504 1409 00	←	←	←	←	←

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 7623 00)

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 0153 00	←	←	Green/Blue 414 7682 00	←	←
Ramp	417 0052 81	←	←	←	←	←
Calibration screw position	2	3	4	4	5	6
Pin	417 0043 09	←	←	←	←	←
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 5589 00	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	50° 504 0961 00	←	←	←	←	←

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 2399 46.

▼ 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 7622 00)

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 7682 00	←	←	←	←	←
Ramp	Qty 3 x 1 417 0052 86	←	←	Qty 3 x 1 417 0052 89	←	←
Calibration screw position	3	4	5	2	3	4
Pin	Qty 3 x 1 417 0043 09	←	←	←	←	←
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 5589 00	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	50 504 0961 00	←	←	←	←	←

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 7621 00)

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 0153 00	←	←	←	←	←
Ramp	Qty 3 x 1 417 0052 86	←	←	←	←	←
Calibration screw position	3	4	5	4	5	6
Pin	Qty 3 x 1 417 0043 08	←	←	Qty 3 x 1 417 0043 09	←	←
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 5589 00	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	50 504 0961 00	←	←	←	←	←

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 7620 00)

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 1184 00	←	←	←	←	←
Block	Qty 3 x 1 417 1181 00	←	←	←	←	←
Weight	Qty 3 x 1 417 1204 00	←	Qty 3 x 5 417 1144 00	Qty 3 x 4 ←	Qty 3 x 3 ←	Qty 3 x 2 ←
Capsule	Qty 3 x 1 417 1145 00	←	←	←	←	←
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 5058 00	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	4.8 10.6	←	←	←	←	←
Cam angle	° (degrees)	44 504 0960 00	←	←	←	←	←

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 7619 00)

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 9930 00	←	Blue/Yellow 414 6895 00	←	←	←
Ramp	Qty 3 417 0052 91	←	Qty 3 417 0052 92	←	←	←
Calibration screw position	3	4	2	3	4	5
Pin	Qty 3 417 0043 09	←	←	←	←	←
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 5058 00	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	4.8 10.6	←	←	←	←	←
Cam angle	° (degrees)	44 504 0960 00	←	←	←	←	←

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

▼ CAUTION

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

CARBURETION

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 7618 00)

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 0349 00	←	←	←	←	←
Ramp	Qty 3 x 1 417 0052 86	←	←	Qty 3 x 1 417 0052 81	←	←
Calibration screw position	2	3	4	4	5	6
Pin	Qty 3 x 1 417 0043 09	←	←	←	←	←
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 5589 00	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	50° 504 0961 00	←	←	←	←	←

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 2399 46.

▼ 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 7616 00)

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	Violet/Blue 415 0349 00	←	←	←	←	←
Ramp	Qty 3 x 1 417 0052 86	←	←	Qty 3 x 1 417 0052 89	←	←
Calibration screw position	3	4	5	3	4	5
Pin	417 0043 09	←	←	←	←	←
Engagement RPM ± 100	4100	←	←	←	←	←
Maximum RPM ± 100	7900	←	←	←	←	←

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 5589 00	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	50 504 0961 00	←	←	←	←	←

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 7615 00)

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 0349 00	←	←	←	←	←
Ramp	Qty 3 x 1 417 0052 86	←	←	Qty 3 x 1 417 0052 89	←	←
Calibration screw position	3	4	5	3	4	5
Pin	417 0043 09	←	←	←	←	←
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 5589 00	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	50 504 0961 00	←	←	←	←	←

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 7614 00)

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 0153 00	←	←	←	←	←
Ramp	417 0052 86	←	←	←	←	←
Calibration screw position	3	4	5	4	5	6
Pin	Qty 3 x 1 417 0043 08	←	←	Qty 3 x 1 417 0043 09	←	←
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 5589 00	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	50 504 0961 00	←	←	←	←	←

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 7612 00)

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 7628 00	←	←	←	←	←
Ramp	Qty 3 x 1 417 0052 85	←	Qty 3 x 1 417 0052 81	←	←	←
Calibration screw position	4	5	2	3	4	5
Pin	Qty 3 x 1 417 0043 08	←	Qty 3 x 1 417 0043 09	←	←	←
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 5589 00	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	50 504 0961 00	←	←	←	←	←

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 7611 00)

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 7682 00	←	←	Violet/Blue 415 0349 00	←	←
Ramp	Qty 3 x 1 417 0052 86	←	←	←	←	←
Calibration screw position	3	4	5	3	4	5
Pin	Qty 3 x 1 417 0043 08	←	←	Qty 3 x 1 417 0043 09	←	←
Engagement RPM ± 100	4200	←	←	4100	←	←
Maximum RPM ± 100	7900	←	←	←	←	←

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 5589 00	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	50 504 0961 00	←	←	←	←	←

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 7610 00)

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 7628 00	←	←	←	←	←
Ramp	Qty 3 x 1 417 0052 86	←	Qty 3 x 1 417 0052 85	←	←	←
Calibration screw position	2	3	2	3	4	5
Pin	Qty 3 x 1 417 0043 08	←	Qty 3 x 1 417 0043 09	←	←	←
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 5589 00	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	47-50 504 1483 00	←	←	←	←	←

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 7609 00)

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 0154 00	←	Green/Blue 414 7682 00	←	←	←
Ramp	Qty 3 x 1 417 0052 86	←	←	←	←	←
Calibration screw position	2	3	2	3	4	5
Pin	Qty 3 x 1 417 0043 08	←	Qty 3 x 1 417 0043 09	←	←	←
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 5589 00	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	47-50 504 1483 00	←	←	←	←	←

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 7538 00)

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 1159 00	←	Blue 417 1156 00	←	←	←	1
Block	417 1143 00	←	417 1157 00	←	←	←	3
Weight	0	←	3 of 417 1158 00	2 of ←	2 of ←	1 of ←	x 3
Capsule	417 1145 00	←	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 5099 00	←	←	←	←	←
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.

CARBURETION

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 cutaway		2.5	←	←	←	←	←	1
Pilot jet		40	←	←	35	←	←	1
Air screw		1.0	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	1
Needle jet		0-8 (159)	←	←	←	←	←	1
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM ± 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 7580 00)

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/Violet 420 8178 00	←	Blue/Yellow 414 6895 00	←	←	←	1
Ramp	417 0051 46	←	←	←	←	←	3
Calibration screw position	3	4	2	3	4	5	—
Pin	417 0043 03	←	←	←	←	←	3
Engagement RPM ± 100	3300	←	←	←	←	←	—
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	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	40	←	←	←	←	←

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	N/A	←	←	←	←	←
Bottom sprocket	N/A	←	←	←	←	←
Chain, quantity of links	N/A	←	←	←	←	←
Drive sprocket, quantity of teeth	8	—	—	—	—	—

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

▼ CAUTION

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

CARBURETION

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 cutaway		3.0	←	←	←	←	←	1
Pilot jet		25	←	←	←	←	←	1
Air screw		1.5	←	←	.75	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		O-0 (159)	←	←	←	←	←	1
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM ± 200	1650	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	←	1.6	1.7	18	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 7581 00)

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 8175 00	←	Red/Blue 414 6915 00	←	←	←	1
Ramp	417 0051 46	←	←	←	←	←	3
Calibration screw position	4	5	2	3	4	5	—
Pin	417 0043 03	←	←	←	←	←	3
Engagement RPM ± 100	2900	←	←	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	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	6.0 13.2	←	←	←	←	←
Cam angle	° (degrees)	40	←	←	←	←	←

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	N/A	←	←	←	←	←
Bottom sprocket	N/A	←	←	←	←	←
Chain, quantity of links	N/A	←	←	←	←	←
Drive sprocket, quantity of teeth	8	—	—	—	—	—

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

▼ CAUTION

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

CARBURETION

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 cutaway		3.0	←	←	←	←	←	1
Pilot jet		25	←	←	←	←	←	1
Air screw		1.5	←	←	.75	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		O-0 (159)	←	←	←	←	←	1
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM ± 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 7600 00)

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 6390 00	←	Blue/Pink 414 9163 00	←	←	←	1
Ramp	417 0052 90	←	←	←	←	←	3
Calibration screw position	2	3	2	3	4	5	—
Pin	417 0043 03	←	←	←	←	←	3
Engagement RPM ± 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.

CARBURETION

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 cutaway		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 7579 00)

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 1185 00	←	Red/Blue on Violet 417 1184 00	←	←	←	1
Block	417 1181 00	←	←	←	←	←	1
Weight	1 of 417 1204 00	←	5 of 417 1144 00	4 of ←	3 of ←	2 of ←	x 3
Capsule	417 1145 00	←	←	←	←	←	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 5058 00	←	←	←	←	←
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.

CARBURETION

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 cutaway		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 7578 00)

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 8175 00	←	Red/Blue 414 6915 00	←	←	←	1
Ramp	417 0052 84	←	←	←	←	←	3
Calibration screw position	4	5	2	3	4	5	—
Pin	417 0043 03	←	←	←	←	←	3
Engagement RPM ± 100	3000	←	←	←	←	←	—
Maximum RPM ± 100	7100	←	←	←	←	←	—

DRIVEN PULLEY

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 5058 00	←	←	←	←	←
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.

CARBURETION

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 cutaway		2.5	←	←	←	←	←	2
Pilot jet		40	←	←	45	←	←	2
Air screw		1.875	←	←	1.5	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-0 (159)	←	←	←	←	←	2
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM ± 200	1650	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	←	1.6	1.7	1.8	1.85	—
Exhaust restricting ring		N/A	←	←	514 0434 00	←	←	1

MAIN JET CHART

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 7577 00)

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 1185 00	←	Red/Blue on Violet 417 1184 00	←	←	←	1
Spring (Touring E)	Red/Blue on Violet 417 1184 00	←	←	←	←	←	1
Block	417 1181 00	←	←	←	←	←	1
Weight	1 of 417 1204 00	←	5 of 417 1144 00	4 of ←	3 of ←	2 of ←	x 3
Capsule	417 1145 00	←	←	←	←	←	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.

CARBURETION

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 cutaway		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 7576 00)

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 6784 00	←	Blue/Pink 415 9163 00	←	←	←	1
Ramp	417 0052 27	←	←	←	←	←	3
Calibration screw position	4	5	2	3	4	5	—
Pin	417 0043 03	←	←	←	←	←	3
Engagement RPM ± 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.

CARBURETION

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 cutaway		2.5	←	←	←	←	←	2
Pilot jet		40	←	←	45	←	←	2
Air screw		2.25	←	←	1.25	1.0	0.75	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-1 (159)	←	←	←	←	←	2
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM ± 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 7575 00)

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 8175 00	←	Red/Blue 414 6915 00	←	←	←	1
Ramp	415 0052 84	←	←	←	←	←	3
Calibration screw position	4	5	2	3	4	5	—
Pin	417 0043 03	←	←	←	←	←	3
Engagement RPM ± 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.

CARBURETION

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 cutaway		2.5	←	←	←	←	←	2
Pilot jet		40	←	←	45	←	←	2
Air screw		1.875	←	←	1.5	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-0 (159)	←	←	←	←	←	2
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM ± 200	1650	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	←	1.6	1.7	1.8	1.85	—
Exhaust restricting ring		N/A	←	←	514 0434 00	←	←	1

MAIN JET CHART

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 7574 00)

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 8179 00	←	Green/Blue 414 7682 00	←	←	←	1
Ramp	414 0052 28	←	←	←	←	←	3
Calibration screw position	3	4	2	3	4	5	—
Pin	417 0043 04	←	417 0043 03	←	←	←	3
Engagement RPM ± 100	3500	←	4400	←	←	←	—
Maximum RPM ± 100	7800	←	←	←	←	←	—

DRIVEN PULLEY

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 5589 00	←	←	←	←	←
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.

CARBURETION

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 cutaway		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 7573 00)

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 6894 00	←	←	Violet/Pink 414 9495 00	←	←	1
Ramp	417 0052 85	←	←	417 0052 89	←	←	3
Calibration screw position	3	4	5	4	5	6	—
Pin	417 0043 03	←	←	←	←	←	3
Engagement RPM ± 100	3800	←	←	4200	←	←	—
Maximum RPM ± 100	7900	←	←	←	←	←	—

DRIVEN PULLEY

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 5589 00	←	←	←	←	←
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.

CARBURETION

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 cutaway		2.5	←	←	←	←	←	2
Pilot jet		50	←	←	←	←	←	2
Air screw		2.25	←	←	2.0	1.75	1.50	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		Q-6 (480)	←	←	Q-4 (480)	←	←	2
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM ± 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 7572 00)

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 9163 00	←	Green/Violet 414 7628 00	←	←	←	1
Ramp	417 0052 86	←	417 0052 85	←	←	←	3
Calibration screw position	3	4	2	3	4	5	—
Pin	417 0043 04	←	417 0043 03	←	←	←	3
Engagement RPM ± 100	3600	←	4800	←	←	←	—
Maximum RPM ± 100	8500	←	←	←	←	←	—

DRIVEN PULLEY

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 5589 00	←	←	←	←	←
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.

CARBURETION

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		350	←	←	←	←	←	3
Jet needle		6DEY2	←	←	←	←	←	3
Needle position		4	←	←	←	←	←	—
Slide cutaway		2.5	←	←	←	←	←	3
Pilot jet		50	←	←	←	←	←	3
Air screw		2.25	←	←	←	←	←	3
Valve seat		1.5	←	←	←	←	←	3
Needle jet		P-7 (480)	←	←	←	←	←	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

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	←	←	←	←	←	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 7571 00)

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/Green 414 8177 00	←	Blue/Blue 414 6894 00	←	←	←	1
Ramp	417 0052 89	←	417 0052 84	←	←	←	3
Calibration screw position	3	4	3	4	5	6	—
Pin	417 0043 03	←	←	←	←	←	3
Engagement RPM ± 100	3800	←	←	←	←	←	—
Maximum RPM ± 100	7000	←	←	←	←	←	—

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	6.1 13.4	←	6.8 15.0	←	←	←
Cam angle	° (degrees)	47	←	←	←	←	←

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	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.

CARBURETION

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 cutaway		2.5	←	←	←	←	←	2
Pilot jet		35	←	←	←	←	←	2
Air screw		1.5	←	←	1.0	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-0 (159)	←	←	←	←	←	2
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM ± 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 7569 00)

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 7682 00	←	←	←	←	←	1
Ramp	417 0052 86	←	←	417 0052 89	←	←	3
Calibration screw position	3	4	5	4	5	6	—
Pin	417 0043 03	←	←	←	←	←	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 5589 00	←	←	←	←	←
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.

CARBURETION

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 cutaway		2.5	←	←	←	←	←	2
Pilot jet		60	←	←	←	←	←	2
Air screw		2.0	←	←	←	1.75	1.5	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		AA-2 (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 7570 00)

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 9914 00	←	Green/Pink 414 7569 00	←	←	←	1
Ramp	417 0052 83	←	417 0052 89	←	←	←	3
Calibration screw position	3	4	2	3	4	5	—
Pin	417 0053 03	←	←	←	←	←	3
Engagement RPM ± 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.

CARBURETION

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 cutaway		2.5	←	←	←	←	←	2
Pilot jet		40	←	←	50	←	←	2
Air screw		.5	←	←	.75	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-8 (159)	←	P-6 (159)	P-5 (159)	←	←	2
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM ± 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 7568 00)

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 0153 00	←	←	←	←	←	1
Ramp	417 0052 86	←	←	←	←	←	3
Calibration screw position	3	4	5	4	5	6	—
Pin	417 0043 04	←	←	417 0043 03	←	←	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 5589 00	←	←	←	←	←
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.

CARBURETION

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 cutaway		2.5	←	←	←	←	←	2
Pilot jet		60	←	←	←	←	←	2
Air screw		2.25	←	2.0	1.75	1.5	1.125	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		AA-2 (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 7567 00)

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 1184 00	←	←	←	←	←	1
Block	417 1181 00	←	←	←	←	←	3
Weight	1 of 417 1204 00	←	5 of 417 1144 00	4 of ←	3 of ←	2 of ←	x 3
Capsule	417 1145 00	←	←	←	←	←	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.

CARBURETION

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 cutaway		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 7566 00)

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 6895 00	←	Blue/Blue 414 6894 00	←	←	←	1
Ramp	417 0052 84	←	←	←	←	←	3
Calibration screw position	3	4	2	3	4	5	—
Pin	417 0043 03	←	←	←	←	←	3
Engagement RPM ± 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.

CARBURETION

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 cutaway		2.5	←	←	←	←	←	2
Pilot jet		40	←	←	45	←	←	2
Air screw		1.825	←	←	1.5	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-0 (159)	←	←	←	←	←	2
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM ± 200	1650	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	←	1.6	1.7	1.8	1.85	—
Exhaust restricting ring		N/A	←	←	514 0434 00	←	←	1

MAIN JET CHART

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 7564 00)

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	Violet/Blue 415 0349 00	←	←	←	←	←	1
Ramp	417 0052 86	←	←	417 0052 89	←	←	3
Calibration screw position	3	4	5	4	5	6	—
Pin	417 0043 03	←	←	←	←	←	3
Engagement RPM ± 100	4100	←	←	4200	←	←	—
Maximum RPM ± 100	7900	←	←	←	←	←	—

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	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	50	←	←	←	←	←

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	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.

CARBURETION

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 cutaway		2.5	←	←	←	←	←	2
Pilot jet		50	←	←	←	←	←	2
Air screw		2.25	←	←	2.0	1.75	1.5	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		Q-6 (480)	←	←	Q-4 (480)	←	←	2
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM ± 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 7565 00)

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 0154 00	←	Green/Violet 414 7628 00	←	←	←	1
Ramp	417 0052 81	←	←	←	←	←	3
Calibration screw position	3	4	3	4	5	6	—
Pin	417 0043 03	←	←	←	←	←	3
Engagement RPM ± 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.

CARBURETION

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 cutaway		2.5	←	←	←	←	←	2
Pilot jet		50	←	←	←	←	←	2
Air screw		1.50	←	1.25	←	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-3 (480)	←	←	←	P-1 (480)	←	2
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM ± 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 7563 00)

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 0349 00	←	←	←	←	←	1
Ramp	417 0052 86	←	←	417 0052 89	←	←	3
Calibration screw position	3	4	5	4	5	6	—
Pin	417 0043 03	←	←	←	←	←	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.

CARBURETION

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 cutaway		2.5	←	←	←	←	←	2
Pilot jet		60	←	←	←	←	←	2
Air screw		2.0	←	←	←	1.75	1.5	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		AA-2 (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 7562 00)

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 9914 00	←	←	←	←	←	1
Ramp	417 0052 81	←	←	←	←	←	3
Calibration screw position	4	5	6	2	3	4	—
Pin	417 0043 04	←	417 0043 03	←	←	←	3
Engagement RPM ± 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 5589 00	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	50 504 0961 00	←	←	←	←	←

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.

CARBURETION

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 cutaway		2.5	←	←	←	←	←	—
Pilot jet		50	←	←	60	←	←	3
Air screw		1.50	←	1.25	1.00	0.75	←	3
Valve seat		1.5	←	←	←	←	←	3
Needle jet		P-O (286)	←	←	←	←	←	3
Starter jet		1.60	←	←	←	←	←	—
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM ± 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 0968 00), Qty 3 must be installed.

HIGH ALTITUDE KIT (P/N 861 7561 00)

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 9914 00	←	Green/Violet 414 7628 00	←	←	←	1
Ramp	417 0052 86	←	417 0052 85	←	←	←	3
Calibration screw position	4	5	2	3	4	5	—
Pin	417 0043 04	←	417 0043 03	←	←	←	3
Engagement RPM ± 100	4500	←	4800	←	←	←	—
Maximum RPM ± 100	8500	←	←	←	←	←	—

DRIVEN PULLEY

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 5589 00	←	←	←	←	←
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.

CARBURETION

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 cutaway		2.5	←	←	←	←	←	3
Pilot jet		50	←	←	65	←	←	3
Air screw		2.25	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	3
Needle jet		P-7 (480)	←	←	P-5 (480)	←	←	3
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM ± 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 7560 00)

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 7682 00	←	←	←	←	←	1
Ramp	417 0052 86	←	←	←	←	←	3
Calibration screw position	3	4	3	4	5	6	—
Pin	417 0043 04	←	417 0043 03	←	←	←	3
Engagement RPM ± 100	4100	←	4500	←	←	←	—
Maximum RPM ± 100	8300	←	←	←	←	←	—

DRIVEN PULLEY

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.

CARBURETION

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 cutaway		2.0	←	←	←	←	←	3
Pilot jet		50	←	←	60	←	←	3
Air screw		4.00	3.50	3.00	←	2.50	2.00	3
Valve seat		1.5	←	←	←	←	←	3
Needle jet		O-4 (327)	←	←	←	←	←	3
Float level	mm	20	←	←	←	←	←	—
Idle	RPM ± 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 0967 00), Qty 3 must be installed.

HIGH ALTITUDE KIT (P/N 861 7559 00)

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 7682 00	←	←	←	←	←	1
Ramp	417 0052 86	←	←	←	←	←	3
Calibration screw position	3	4	3	4	5	6	—
Pin	417 0043 04	←	417 0043 03	←	←	←	3
Engagement RPM ± 100	4100	←	4500	←	←	←	—
Maximum RPM ± 100	8300	←	←	←	←	←	—

DRIVEN PULLEY

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.

CARBURETION

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 cutaway		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 7539 00)

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 417 1150 00	←	←	←	←	←	1
Block	417 1143 00	←	←	←	←	←	—
Weight	6	←	←	5	←	←	—
Capsule	417 1145 00	←	←	←	←	←	—
Engagement RPM ± 100	2100	←	←	←	←	←	—
Maximum RPM ± 100	5200	←	←	←	←	←	—

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		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

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	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.

CARBURETION

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 cutaway		2.0	←	←	←	←	←	1
Pilot jet		30	←	←	←	←	←	1
Air screw		1.5	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	1
Needle jet		0-8 (182)	←	←	←	←	←	1
Float level	mm	17.3	←	←	←	←	←	—
Idle	RPM	1100-1300	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	←	←	←	←	←	—

MAIN JET CHART

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 7538 00)

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 1159 00	←	Blue 417 1156 00	←	←	←	1
Block	417 1143 00	←	417 1157 00	←	←	←	3
Weight	0	←	3 of 417 1158 00	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.

CARBURETION

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 cutaway		2.5	←	←	←	←	←	1
Pilot jet		40	←	←	35	←	←	1
Air screw		1.0	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	1
Needle jet		0-8 (154)	←	←	←	←	←	1
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM	1100-1300	←	←	←	←	←	—
Idle throttle valve position	mm	1.3	←	←	←	←	←	—

MAIN JET CHART

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 7519 00)

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 6915 00	←	←	←	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.

CARBURETION

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		220	210	190	170	160	150	1
Jet needle		6DH8	←	←	←	←	←	1
Needle position		4	←	←	3	←	←	—
Slide cutaway		3.0	←	←	←	←	←	1
Pilot jet		25	←	←	←	←	←	1
Air screw		1.5	←	←	.75	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		O-0 (159)	←	←	←	←	←	1
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM	1500-1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.3	1.4	←	1.5	1.6	1.7	—

MAIN JET CHART

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	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 7518 00)

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 1185 00	←	Red/Blue *417 1184 00	←	←	←	1
Block	417 1181 00	←	←	←	←	←	3
Weight	1 of 417 1204 00	←	5 of 417 1144 00	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.

CARBURETION

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 7517 00)

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.

CARBURETION

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 cutaway		2.5	←	←	←	←	←	2
Pilot jet		40	←	←	45	←	←	2
Air screw		1.25	←	←	1.0	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-0 (159)	←	←	←	←	←	2
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM	1500-1800	←	←	←	←	←	—
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 7516 00)

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 1185 00	←	Red/Blue *417 1184 00	←	←	←	1
Spring (Touring E)	Red/Blue *417 1184 00	←	←	←	←	←	1
Block	417 1181 00	←	←	←	←	←	3
Weight	1 of 417 1204 00	←	5 of 417 1144 00	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

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.

CARBURETION

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 cutaway		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 7515 00)

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 6784 00	←	Violet/Green 415 0154 00	←	←	←	1
Ramp	420 480 227	←	←	←	←	←	3
Calibration screw position	4	5	3	4	5	6	—
Pin	420 429 140	←	←	←	←	←	3
Engagement RPM ± 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.

CARBURETION

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 cutaway		2.5	←	←	←	←	←	2
Pilot jet		40	←	←	45	←	←	2
Air screw		2.25	←	←	1.25	1.0	0.75	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-1 (159)	←	←	←	←	←	2
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM	1500-1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.8	1.9	2.0	2.2	2.3	2.4	—

MAIN JET CHART

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 7514 00)

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/Orange 415 0152 00	←	Red/Blue 414 6915 00	←	←	←	1
Ramp	420 480 284	←	←	←	←	←	3
Calibration screw position	4	5	3	4	5	6	—
Pin	420 429 140	←	←	←	←	←	3
Engagement RPM ± 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	←	←	←	←	←
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.

CARBURETION

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 cutaway		2.5	←	←	←	←	←	2
Pilot jet		40	←	←	45	←	←	2
Air screw		1.25	←	←	1.0	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-0 (159)	←	←	←	←	←	2
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM	1500-1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	←	←	1.7	1.8	1.85	—
Exhaust restricting ring		N/A	←	←	P/N 514 0434 00	←	←	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 7511 00)

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 7682 00	←	←	←	←	←	1
Ramp	420 480 228	←	←	←	←	←	3
Calibration screw position	3	4	2	3	4	5	—
Pin	504 2596 00	←	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.

CARBURETION

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 cutaway		2.5	←	←	←	←	←	2
Pilot jet		45	←	←	←	←	←	2
Air screw		1.75	←	←	1.25	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-7 (480)	←	←	P-5 (480)	←	P-3 (480)	2
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM	1700-1900	←	←	←	←	←	—
Idle throttle valve position	mm	1.8	←	1.9	2.0	2.1	2.2	—

MAIN JET CHART

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 7510 00)

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	Yellow/Red 414 9930 00	←	←	Blue/Orange 414 6390 00	←	←	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

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	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	6.1 13.4	←	←	←	←	←
Cam angle	° (degrees)	50	←	←	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	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.

CARBURETION

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 cutaway		2.5	←	←	←	←	←	2
Pilot jet		40	←	←	50	←	←	2
Air screw		1.25	←	←	1.5	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		O-4 (480)	←	←	O-3 (480)	←	←	2
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM	1800-2000	←	←	←	←	←	—
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 7509 00)

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 6897 00	←	←	Violet/Yellow 415 0153 00	←	←	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.

CARBURETION

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 cutaway		2.5	←	←	←	←	←	2
Pilot jet		50	←	←	←	←	←	2
Air screw		2.25	←	2.0	1.75	1.5	1.125	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		AA-3 (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 7508 00)

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 9914 00	←	Green/Pink 414 7569 00	←	←	←	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.

CARBURETION

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 cutaway		2.5	←	←	←	←	←	2
Pilot jet		40	←	←	←	←	←	2
Air screw		.5	←	←	.75	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-8 (159)	←	P-6 (159)	P-5 (159)	←	←	2
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM	1600-1800	←	←	←	←	←	—
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 7507 00)

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 7682 00	←	Violet/Blue 415 0349 00	←	←	←	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.

CARBURETION

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 cutaway		2.5	←	←	←	←	←	2
Pilot jet		45	←	←	55	←	←	2
Air screw		1.875	←	←	1.5	1.25	.75	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		AA-2 (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 7513 00)

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 1184 00	←	←	←	←	←	1
Block	417 1181 00	←	←	←	←	←	3
Weight	1 of 417 1204 00	←	5 of 417 1144 00	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.

CARBURETION

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 cutaway		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 7512 00)

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 6895 00	←	Blue/Blue 414 6894 00	←	←	←	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.

CARBURETION

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 cutaway		2.5	←	←	←	←	←	2
Pilot jet		40	←	←	45	←	←	2
Air screw		1.25	←	←	1.0	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-0 (159)	←	←	←	←	←	2
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM	1500-1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	←	←	1.7	1.8	1.85	—
Exhaust restricting ring		N/A	←	←	P/N 514 0434 00	←	←	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 7506 00)

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 9914 00	←	←	←	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.

CARBURETION

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 cutaway		2.5	←	←	←	←	←	2
Pilot jet		45	←	←	←	←	←	2
Air screw		1.75	←	←	1.25	←	←	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-7 (480)	←	←	P-5 (480)	←	P-3 (480)	2
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM	1700-1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.8	←	1.9	2.0	2.1	2.2	—

MAIN JET CHART

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 7505 00)

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 (STX)	Blue/Green 414 8177 00	←	Violet/Violet 414 8179 00	←	←	←	1
Spring (STX LT)	Yellow/Green 414 7423 00	←	Violet/Violet 414 8179 00	←	←	←	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

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	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	6.1 13.4	←	←	←	←	←
Cam angle	° (degrees)	50	←	←	←	←	←

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	(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.

CARBURETION

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 cutaway		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 7503 00)

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 0153 00	←	←	←	←	←	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.

CARBURETION

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 cutaway		2.5	←	←	←	←	←	2
Pilot jet		50	←	←	←	←	←	2
Air screw		2.25	←	2.0	1.75	1.5	1.125	—
Valve seat		1.5	←	←	←	←	←	2
Needle jet		AA-3 (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 7504 00)

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 6055 00	←	Violet/Violet 414 8179 00	←	←	←	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.

CARBURETION

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 cutaway		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 7502 00)

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 9495 00	1
Ramp	420 480 281	←	←	←	←	420 480 289	3
Calibration screw position	4	5	3	4	5	6	—
Pin	420 429 220	←	420 429 140	←	←	←	3
Engagement RPM ± 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.

CARBURETION

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 cutaway		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 7501 00)

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 9914 00	←	←	←	←	←	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.

CARBURETION

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 cutaway		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 7500 00)

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 7628 00	←	←	←	←	←	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.

CARBURETION

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 cutaway		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 7499 00)

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 7628 00	←	←	←	←	←	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.

CARBURETION

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 cutaway		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 7399 00)

CARBURETOR

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

DRIVE PULLEY

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

DRIVEN PULLEY

Altitude / Gearing	SEA LEVEL	4000 FT	6000 FT	8000 FT	10 000 FT
Spring preload	8 lb ± 1.5	10 lb ± 1.5	10 lb ± 1.5	10 lb ± 1.5	10 lb ± 1.5
Cam	40.4° Std 504 1029 00	40.4° Std 504 1029 00	40.4° Std 504 1029 00	40.4° Std 504 1029 00	40.4° Std 504 1029 00
Chaincase gearing	10/25	10/25	10/25	10/25	10/25
SPECIAL SET-UP NOTES:					

▼ CAUTION

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

MAIN JET CHART

Altitude / 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 7434 00)

CARBURETOR

Altitude / Calibration	SEA LEVEL	4000 FT	6000 FT	8000 FT	10 000 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 cutaway	2.5	2.5	2.5	2.5	2.5
Air screw	1	1	1	1	1
Idle speed (RPM)	1100-1300	1100-1300	1100-1300	1100-1300	1100-1300

DRIVE PULLEY

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

DRIVEN PULLEY

Altitude / Gearing	SEA LEVEL	4000 FT	6000 FT	8000 FT	10 000 FT
Spring preload	8 lb ± 2	13 lb ± 1	13 lb ± 1	13 lb ± 1	13 lb ± 1
Cam	37.8° Std 504 0813 00	37.8° Std 504 0813 00	37.8° Std 504 0813 00	37.8° Std 504 0813 00	37.8° Std 504 0813 00
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 7253 00)

CARBURETOR

Altitude / Calibration	SEA LEVEL	4000 FT	6000 FT	8000 FT	10 000 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 cutaway	2.5	2.5	2.5	2.5	2.5
Air screw	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2
Idle speed (RPM)	1800-2000	1800-2000	1800-2000	1800-2000	1800-2000

DRIVE PULLEY

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

DRIVEN PULLEY

Altitude / Gearing	SEA LEVEL	4000 FT	6000 FT	8000 FT	10 000 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 7469 00)

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 1185 00	Violet 417 1184 00	←	←	←
Spring (Formula S, Touring E)	—	Violet 417 1184 00	←	←	←	←
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	2000 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.

CARBURETION

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

HIGH ALTITUDE KIT (P/N 861 7468 00)

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	2000 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.

CARBURETION

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 7476 00)

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	2000 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.

CARBURETION

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 7454 00)

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 4802 84	←	←	←
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 4291 40	←	←	←
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	2000 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.

CARBURETION

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 7453 00)

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 0964 00	←	←	←
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	2000 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.

CARBURETION

Calibration \ Altitude	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

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/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 7456 00)

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	2000 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.

CARBURETION

Calibration \ Altitude	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

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 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 7455 00)

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 4802 28	←	←	←
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	2000 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.

▼ CAUTION

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

CARBURETION

Altitude / 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 7452 00)

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	2000 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.

CARBURETION

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 7451 00)

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	2000 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.

CARBURETION

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 7450 00)

DRIVE PULLEY

Altitude / Clutching	Qty	Sea Level	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 0000 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	2000 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.

CARBURETION

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 7449 00)

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 4291 40	←	←	←
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	2000 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).

CARBURETION

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 7448 00)

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	2000 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.

CARBURETION

Calibration \ Altitude	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

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 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 7447 00)

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	2000 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.

CARBURETION

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

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/ 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 7456 00)

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	2000 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.

CARBURETION

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

HIGH ALTITUDE TECHNICAL DATA - 1994 MODELS

1994 - ÉLAN

HIGH ALTITUDE KIT (P/N 861 7399 00)

CARBURETOR

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

DRIVE PULLEY

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

DRIVEN PULLEY

Altitude / Gearing	SEA LEVEL	4000 FT	6000 FT	8000 FT	10 000 FT
Spring preload	8 lb ± 1.5	10 lb ± 1.5	10 lb ± 1.5	10 lb ± 1.5	10 lb ± 1.5
Cam	40.4° Std 504 1029 00	40.4° Std 504 1029 00	40.4° Std 504 1029 00	40.4° Std 504 1029 00	40.4° Std 504 1029 00
Chaincase gearing	10/25	10/25	10/25	10/25	10/25
SPECIAL SET-UP NOTES: Model 3051.					

▼ 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 7434 00)

CARBURETOR

Altitude / Calibration	SEA LEVEL	4000 FT	6000 FT	8000 FT	10 000 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 cutaway	2.5	2.5	2.5	2.5	2.5
Air screw	1	1	1	1	1
Idle speed (RPM)	1100-1300	1100-1300	1100-1300	1100-1300	1100-1300

DRIVE PULLEY

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

DRIVEN PULLEY

Altitude / Gearing	SEA LEVEL	4000 FT	6000 FT	8000 FT	10 000 FT
Spring preload	8 lb ± 2	13 lb ± 1	13 lb ± 1	13 lb ± 1	13 lb ± 1
Cam	37.8° Std 504 0813 00	37.8° Std 504 0813 00	37.8° Std 504 0813 00	37.8° Std 504 0813 00	37.8° Std 504 0813 00
Chaincase gearing	14/25 Std	14/25 Std	14/25 Std	14/25 Std	14/25 Std

SPECIAL SET-UP NOTES:

Model 3258/3259.

▼ 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 7253 00)

CARBURETOR

Altitude / Calibration	SEA LEVEL	4000 FT	6000 FT	8000 FT	10 000 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 cutaway	2.5	2.5	2.5	2.5	2.5
Air screw	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2
Idle speed (RPM)	1800-2000	1800-2000	1800-2000	1800-2000	1800-2000

DRIVE PULLEY

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

DRIVEN PULLEY

Altitude / Gearing	SEA LEVEL	4000 FT	6000 FT	8000 FT	10 000 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:

Model 3356.

This vehicle is equipped 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

HIGH ALTITUDE KIT (P/N 861 7435 00)

CARBURETOR

Altitude / Calibration	SEA LEVEL	4000 FT	6000 FT	8000 FT	10 000 FT
Main jet	PTO 140 MAG 140	PTO 130 MAG 130	PTO 125 MAG 125	PTO 115 MAG 115	PTO 110 MAG 110
Needle jet	159 O-8	159 O-8	159 O-8	159 O-8	159 O-8
Pilot jet	35	35	35	35	35
Needle	6DH7	6DH7	6DH7	6DH7	6DH7
Needle clip position from top	3	3	2	2	2
Slide cutaway	2.5	2.5	2.5	2.5	2.5
Air screw	1	1	1	1	1
Idle speed (RPM)	1800-2000	1800-2000	1800-2000	1800-2000	1800-2000

DRIVE PULLEY

Altitude / Clutching	SEA LEVEL	4000 FT	6000 FT	8000 FT	10 000 FT
Return spring	Red/Purple 414 7010 00	Purple/Purple 414 8179 00	Purple/Purple 414 8179 00	Purple/Purple 414 8179 00	Purple/Purple 414 8179 00
Centrifugal level arm	Std	Std	Std	Std	Std
Calibration washers or pin	Std	Std	Std	Std	Std
Governor cup or ramp	227 420 4802 27	227 420 4802 27	227 420 4802 27	227 420 4802 27	227 420 4802 27
Calibration screw position	4	4	4	5	5

DRIVEN PULLEY

Altitude / Gearing	SEA LEVEL	4000 FT	6000 FT	8000 FT	10 000 FT
Spring preload	10.5 lb ± 1.5	12 lb ± 1.5	12 lb ± 1.5	12 lb ± 1.5	12 lb ± 1.5
Cam	Std	Std	Std	Std	Std
Chaincase gearing	20/44	20/44	20/44	20/44	20/44

SPECIAL SET-UP NOTES:

Model 3682/3683, 3685/3686.

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

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

▼ 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	PTO	150	140	135	125	120
– 40°F	MAG	150	140	135	125	120
– 30°C	PTO	145	135	130	120	115
– 20°F	MAG	145	135	130	120	115
– 20°C	**PTO**	**140**	**130**	**125**	**115**	**110**
– 4°F	**MAG**	**140**	**130**	**125**	**115**	**110**
– 10°C	PTO	135	125	120	110	105
14°F	MAG	135	125	120	110	105
0°C	PTO	130	120	115	105	100
32°F	MAG	130	120	115	105	100
10°C	PTO	125	115	110	100	95
50°F	MAG	125	115	110	100	95
20°C	PTO	120	110	105	95	90
70°F	MAG	120	110	105	95	90

HIGH ALTITUDE KIT (P/N 861 7438 00)

CARBURETOR

Altitude / Calibration	SEA LEVEL	4000 FT	6000 FT	8000 FT	10 000 FT
Main jet	PTO 190 MAG 180	PTO 170 MAG 160	PTO 140 MAG 145	PTO 130 MAG 135	PTO 120 MAG 125
Needle jet	159 P-0	159 P-0	159 P-0	159 P-0	159 P-0
Pilot jet	40	40	40	40	40
Needle	6DH2	6DH2	6DH2	6DH2	6DH2
Needle clip position from top	3	3	3	3	3
Slide cutaway	2.5	2.5	2.5	2.5	2.5
Air screw	1-1/2	1-1/4	1-1/4	1-1/4	1-1/4
Idle speed (RPM)	1500-1800	1500-1800	1500-1800	1500-1800	1500-1800

DRIVE PULLEY

Altitude / Clutching	SEA LEVEL	4000 FT	6000 FT	8000 FT	10 000 FT
Return spring	Blue/Yellow 414 6895 00	Blue/Blue 414 6894 00	Blue/Blue 414 6894 00	Blue/Blue 414 6894 00	Blue/Blue 414 6894 00
Centrifugal level arm	420 4484 55	420 4484 55	420 4484 55	420 4484 55	420 4484 55
Calibration washers or pin	420 4291 40 (hollow)	420 4291 40 (hollow)	420 4291 40 (hollow)	420 4291 40 (hollow)	420 4291 40 (hollow)
Governor cup or ramp	226 420 4802 26	227 420 4802 27	227 420 4802 27	227 420 4802 27	227 420 4802 27
Calibration screw position	3	3	3	3	4

DRIVEN PULLEY

Altitude / Gearing	SEA LEVEL	4000 FT	6000 FT	8000 FT	10 000 FT
Spring preload	8 lb ± 1.5	11 lb ± 1.5	11 lb ± 1.5	11 lb ± 1.5	11 lb ± 1.5
Cam	37.8° 504 1380 00	37.8° 504 1380 00	37.8° 504 1380 00	37.8° 504 1380 00	37.8° 504 1380 00
Chaincase gearing	21/44	21/44	21/44	21/44	21/44

SPECIAL SET-UP NOTES:

Model 3687.

This vehicle is equipped 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	PTO	210	185	155	145	135
– 40°F	MAG	200	175	160	150	140
– 30°C	PTO	200	175	145	140	130
– 20°F	MAG	190	165	150	145	135
– 20°C	**PTO**	**190**	**170**	**140**	**130**	**120**
– 4°F	**MAG**	**180**	**160**	**145**	**135**	**125**
– 10°C	PTO	180	165	135	125	115
14°F	MAG	170	155	140	130	120
0°C	PTO	175	160	130	120	110
32°F	MAG	165	150	135	125	115
10°C	PTO	170	150	125	115	105
50°F	MAG	160	140	130	120	110
20°C	PTO	165	145	120	110	100
70°F	MAG	155	135	125	115	105

HIGH ALTITUDE KIT (P/N 861 7438 00)

CARBURETOR

Altitude / Calibration	SEA LEVEL	4000 FT	6000 FT	8000 FT	10 000 FT
Main jet	PTO 190 MAG 180	PTO 170 MAG 160	PTO 140 MAG 145	PTO 130 MAG 135	PTO 120 MAG 125
Needle jet	159 P-0	159 P-0	159 P-0	159 P-0	159 P-0
Pilot jet	40	40	40	40	40
Needle	6DH2	6DH2	6DH2	6DH2	6DH2
Needle clip position from top	3	3	3	3	3
Slide cutaway	2.5	2.5	2.5	2.5	2.5
Air screw	1-1/2	1-1/4	1-1/4	1-1/4	1-1/4
Idle speed (RPM)	1800-2000	1800-2000	1800-2000	1800-2000	1800-2000

DRIVE PULLEY

Altitude / Clutching	SEA LEVEL	4000 FT	6000 FT	8000 FT	10 000 FT
Return spring	Red/Green 414 6892 00	Blue/Blue 414 6894 00	Blue/Blue 414 6894 00	Blue/Blue 414 6894 00	Blue/Blue 414 6894 00
Centrifugal level arm	420 4484 55	420 4484 55	420 4484 55	420 4484 55	420 4484 55
Calibration washers or pin	420 4291 40 (hollow)	420 4291 40 (hollow)	420 4291 40 (hollow)	420 4291 40 (hollow)	420 4291 40 (hollow)
Governor cup or ramp	226 420 4802 26	227 420 4802 27	227 420 4802 27	227 420 4802 27	227 420 4802 27
Calibration screw position	3	2	2	2	3

DRIVEN PULLEY

Altitude / Gearing	SEA LEVEL	4000 FT	6000 FT	8000 FT	10 000 FT
Spring preload	8 lb ± 1.5	11 lb ± 1.5	11 lb ± 1.5	11 lb ± 1.5	11 lb ± 1.5
Cam	37.8° 504 1380 00	37.8° 504 1380 00	37.8° 504 1380 00	37.8° 504 1380 00	37.8° 504 1380 00
Chaincase gearing	20/44	20/44	20/44	20/44	20/44

SPECIAL SET-UP NOTES:

Model 3688.

This vehicle is equipped 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	PTO	210	185	155	145	135
– 40°F	MAG	200	175	160	150	140
– 30°C	PTO	200	175	145	140	130
– 20°F	MAG	190	165	150	145	135
– 20°C	**PTO**	**190**	**170**	**140**	**130**	**120**
– 4°F	**MAG**	**180**	**160**	**145**	**135**	**125**
– 10°C	PTO	180	165	135	125	115
14°F	MAG	170	155	140	130	120
0°C	PTO	175	160	130	120	110
32°F	MAG	165	150	135	125	115
10°C	PTO	170	150	125	115	105
50°F	MAG	160	140	130	120	110
20°C	PTO	165	145	120	110	100
70°F	MAG	155	135	125	115	105

HIGH ALTITUDE KIT (P/N 861 7438 00)

CARBURETOR

Altitude / Calibration	SEA LEVEL	4000 FT	6000 FT	8000 FT	10 000 FT
Main jet	PTO 190 MAG 180	PTO 170 MAG 160	PTO 140 MAG 145	PTO 130 MAG 135	PTO 120 MAG 125
Needle jet	159 P-0	159 P-0	159 P-0	159 P-0	159 P-0
Pilot jet	40	40	40	40	40
Needle	6DH2	6DH2	6DH2	6DH2	6DH2
Needle clip position from top	3	3	3	3	3
Slide cutaway	2.5	2.5	2.5	2.5	2.5
Air screw	1-1/2	1-1/4	1-1/4	1-1/4	1-1/4
Idle speed (RPM)	1500-1800	1500-1800	1500-1800	1500-1800	1500-1800

DRIVE PULLEY

Altitude / Clutching	SEA LEVEL	4000 FT	6000 FT	8000 FT	10 000 FT
Return spring	Yellow/Yellow 414 7486 00	Blue/Blue 414 6894 00	Blue/Blue 414 6894 00	Blue/Blue 414 6894 00	Blue/Blue 414 6894 00
Centrifugal level arm	420 4484 55	420 4484 55	420 4484 55	420 4484 55	420 4484 55
Calibration washers or pin	420 4291 40 (hollow)	420 4291 40 (hollow)	420 4291 40 (hollow)	420 4291 40 (hollow)	420 4291 40 (hollow)
Governor cup or ramp	226 420 4802 26	227 420 4802 27	227 420 4802 27	227 420 4802 27	227 420 4802 27
Calibration screw position	3	3	3	3	4

DRIVEN PULLEY

Altitude / Gearing	SEA LEVEL	4000 FT	6000 FT	8000 FT	10 000 FT
Spring preload	8 lb ± 1.5	11 lb ± 1.5	11 lb ± 1.5	11 lb ± 1.5	11 lb ± 1.5
Cam	37.8° 504 1380 00	37.8° 504 1380 00	37.8° 504 1380 00	37.8° 504 1380 00	37.8° 504 1380 00
Chaincase gearing	21/44	21/44	21/44	21/44	21/44

SPECIAL SET-UP NOTES:

Model 3689.

This vehicle is equipped 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	PTO	210	185	155	145	135
– 40°F	MAG	200	175	160	150	140
– 30°C	PTO	200	175	145	140	130
– 20°F	MAG	190	165	150	145	135
– 20°C	**PTO**	**190**	**170**	**140**	**130**	**120**
– 4°F	**MAG**	**180**	**160**	**145**	**135**	**125**
– 10°C	PTO	180	165	135	125	115
14°F	MAG	170	155	140	130	120
0°C	PTO	175	160	130	120	110
32°F	MAG	165	150	135	125	115
10°C	PTO	170	150	125	115	105
50°F	MAG	160	140	130	120	110
20°C	PTO	165	145	120	110	100
70°F	MAG	155	135	125	115	105

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HIGH ALTITUDE KIT (P/N 861 7421 00)

CARBURETOR

Altitude / Calibration	SEA LEVEL	4000 FT	6000 FT	8000 FT	10 000 FT
Main jet	PTO 370 MAG 390	PTO 340 MAG 360	PTO 310 MAG 320	PTO 290 MAG 300	PTO 270 MAG 280
Needle jet	404-1476 224 AA-4	404-1484 224 Z-8	404-1278 224 Z-5	404-1278 224 Z-5	404-1278 224 Z-5
Pilot jet	45	45	404-1095 50	40404-1095 50	404-1095 50
Needle	7EG06	7EG06	7EG06	7EG06	7EG06
Needle clip position from top	2	2	3	3	3
Slide cutaway	2.5	2.5	2.5	2.5	2.5
Air screw	PTO 3/4 MAG 3/4	PTO 3/4 MAG 3/4	PTO 3/4 MAG 3/4	PTO 3/4 MAG 3/4	PTO 3/4 MAG 3/4
Idle speed (RPM)	1800-2000	1800-2000	1600-1800	1600-1800	1600-1800

DRIVE PULLEY

Altitude / Clutching	SEA LEVEL	4000 FT	6000 FT	8000 FT	10 000 FT
Return spring	Blue/Blue 414 6894 00	Yellow 414 8176 00	Yellow 414 8176 00	Yellow 414 8176 00	Yellow 414 8176 00
Centrifugal level arm	420 4484 55	420 4484 55	420 4484 55	420 4484 55	420 4484 55
Calibration washers or pin	420 4292 20 (solid)	420 4291 40 (hollow)	420 4291 40 (hollow)	420 4291 40 (hollow)	420 4291 40 (hollow)
Governor cup or ramp	280 420 4802 80	228 420 4802 28	228 420 4802 28	228 420 4802 28	228 420 4802 28
Calibration screw position	5	3	3	4	5

DRIVEN PULLEY

Altitude / Gearing	SEA LEVEL	4000 FT	6000 FT	8000 FT	10 000 FT
Spring preload	9 lb $^{+3}_{-0}$	12 lb $^{+3}_{-0}$	12 lb $^{+3}_{-0}$	12 lb $^{+3}_{-0}$	12 lb $^{+3}_{-0}$
Cam	44° 504 1348 00	44° 504 1348 00	44° 504 1348 00	44° 504 1348 00	44° 504 1348 00
Chaincase gearing	26/44	26/44	26/44	26/44	26/44

SPECIAL SET-UP NOTES:

Model 3863, 3866.

▼ 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	PTO	400	370	340	320	300
– 40°F	MAG	420	390	350	330	310
– 30°C	PTO	380	350	320	300	280
– 20°F	MAG	400	370	330	310	290
– 20°C	**PTO**	**370**	**340**	**310**	**290**	**270**
– 4°F	**MAG**	**390**	**360**	**320**	**300**	**280**
– 10°C	PTO	360	330	300	280	260
14°F	MAG	380	350	310	290	270
0°C	PTO	350	320	290	270	250
32°F	MAG	370	340	300	280	260
10°C	PTO	340	310	280	260	240
50°F	MAG	360	330	290	270	250
20°C	PTO	320	290	260	240	220
70°F	MAG	340	310	270	260	230

HIGH ALTITUDE KIT (P/N 861 7422 00)

CARBURETOR

Altitude / Calibration	SEA LEVEL	4000 FT	6000 FT	8000 FT	10 000 FT
Main jet	PTO 350 MAG 360	PTO 310 MAG 320	PTO 290 MAG 300	PTO 270 MAG 280	PTO 260 MAG 270
Needle jet	480 P-4	480 P-4	480 P-2	480 P-2	480 P-2
Pilot jet	35	35	40	40	40
Needle	6DHN44	6DHN44	6DHN44	6DHN44	6DHN44
Needle clip position from top	2	2	2	2	2
Slide cutaway	2.5	2.5	2.5	2.5	2.5
Air screw	PTO 1-1/4 MAG 1-1/4	PTO 1-1/2 MAG 1-1/2	PTO 1-3/4 MAG 1-3/4	PTO 1-3/4 MAG 1-3/4	PTO 1-3/4 MAG 1-3/4
Idle speed (RPM)	1800-2000	1800-2000	1600-1800	1600-1800	1600-1800

DRIVE PULLEY

Altitude / Clutching	SEA LEVEL	4000 FT	6000 FT	8000 FT	10 000 FT
Return spring	Blue/Orange 414 6390 00	White 414 6056 00	White 414 6056 00	White 414 6056 00	White 414 6056 00
Centrifugal level arm	420 4484 55	420 4484 55	420 4484 55	420 4484 55	420 4484 55
Calibration washers or pin	420 4292 20 (solid)	420 4291 40 (hollow)	420 4291 40 (hollow)	420 4291 40 (hollow)	420 4291 40 (hollow)
Governor cup or ramp	228 420 4802 28	228 420 4802 28	228 420 4802 28	228 420 4802 28	228 420 4802 28
Calibration screw position	3	3	3	4	4

DRIVEN PULLEY

Altitude / Gearing	SEA LEVEL	4000 FT	6000 FT	8000 FT	10 000 FT
Spring preload	9 lb $^{+3}_{-0}$	9 lb $^{+3}_{-0}$	9 lb $^{+3}_{-0}$	9 lb $^{+3}_{-0}$	9 lb $^{+3}_{-0}$
Cam	44° 504 1348 00	44° 504 1348 00	44° 504 1348 00	44° 504 1348 00	44° 504 1348 00
Chaincase gearing	23/44	23/44	23/44	23/44	23/44

SPECIAL SET-UP NOTES:
Model 3867/3864.

▼ 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	PTO	380	340	320	300	280
– 40°F	MAG	390	350	330	310	290
– 30°C	PTO	360	320	310	290	270
– 20°F	MAG	370	330	320	300	280
– 20°C	**PTO**	**350**	**310**	**290**	**270**	**260**
– 4°F	**MAG**	**360**	**320**	**300**	**280**	**270**
– 10°C	PTO	340	300	280	260	250
14°F	MAG	350	310	290	270	260
0°C	PTO	330	290	270	250	240
32°F	MAG	340	300	280	260	250
10°C	PTO	320	280	260	240	220
50°F	MAG	330	290	270	250	230
20°C	PTO	310	270	250	230	210
70°F	MAG	320	280	260	240	220

HIGH ALTITUDE KIT (P/N 861 7420 00)

CARBURETOR

Altitude / Calibration	SEA LEVEL	4000 FT	6000 FT	8000 FT	10 000 FT
Main jet	PTO 290 MAG 280	PTO 260 MAG 250	PTO 220 MAG 220	PTO 210 MAG 210	PTO 200 MAG 200
Needle jet	159 N-4	159 N-4	159 N-2	159 N-2	159 N-2
Pilot jet	35	40	45	50	50
Needle	6DHN43	6DHN43	6DHN43	6DHN43	6DHN43
Needle clip position from top	3	3	2	2	2
Slide cutaway	2.5	2.5	2.5	2.5	2.5
Air screw	PTO 3/4 MAG 3/4	PTO 3/4 MAG 3/4	PTO 1 MAG 3/4	PTO 1 MAG 3/4	PTO 1 MAG 3/4
Idle speed (RPM)	1600-1800	1600-1800	1800-2000	1800-2000	1800-2000

DRIVE PULLEY

Altitude / Clutching	SEA LEVEL	4000 FT	6000 FT	8000 FT	10 000 FT
Return spring	Blue 420 4381 92	Purple/Purple 414 8179 00	Purple/Purple 414 8179 00	Purple/Purple 414 8179 00	Purple/Purple 414 8179 00
Centrifugal level arm	420 4484 55	420 4484 55	420 4484 55	420 4484 55	420 4484 55
Calibration washers or pin	420 4292 20 (solid)	420 4291 40 (hollow)	420 4291 40 (hollow)	420 4291 40 (hollow)	420 4291 40 (hollow)
Governor cup or ramp	228 420 4802 28	227 420 4802 27	227 420 4802 27	227 420 4802 27	227 420 4802 27
Calibration screw position	4	2	3	3	4

DRIVEN PULLEY

Altitude / Gearing	SEA LEVEL	4000 FT	6000 FT	8000 FT	10 000 FT
Spring preload	9 lb $^{+3}_{-0}$	12 lb $^{+3}_{-0}$	12 lb $^{+3}_{-0}$	12 lb $^{+3}_{-0}$	12 lb $^{+3}_{-0}$
Cam	40° 504 0921 00	44° 504 0913 00	44° 504 0913 00	44° 504 0913 00	44° 504 0913 00
Chaincase gearing	23/44	23/44	23/44	23/44	23/44

SPECIAL SET-UP NOTES:
Model 3868, 3872.

▼ 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	PTO	310	280	240	230	220
– 40°F	MAG	300	270	240	230	220
– 30°C	PTO	300	270	230	220	210
– 20°F	MAG	290	260	230	220	210
– 20°C	**PTO**	**290**	**260**	**220**	**210**	**200**
– 4°F	**MAG**	**280**	**250**	**220**	**210**	**200**
– 10°C	PTO	280	250	210	200	190
14°F	MAG	270	240	210	200	190
0°C	PTO	270	240	200	190	185
32°F	MAG	260	230	200	190	185
10°C	PTO	260	230	195	185	175
50°F	MAG	250	220	195	185	175
20°C	PTO	250	220	185	175	165
70°F	MAG	240	210	185	175	165

HIGH ALTITUDE KIT (P/N 861 7418 00)

CARBURETOR

Altitude / Calibration	SEA LEVEL	4000 FT	6000 FT	8000 FT	10 000 FT
Main jet	PTO 340 MAG 350	PTO 280 MAG 290	PTO 250 MAG 270	PTO 230 MAG 250	PTO 210 MAG 230
Needle jet	480 P-6	404-1312 480 P-2	404-1486 480 O-8	404-1485 480 O-6	404-1485 480 O-6
Pilot jet	35	404-1091 40	404-1094 45	404-1095 50	404-1095 50
Needle	6DHN43	6DHN43	6DHN43	6DHN43	6DHN43
Needle clip position from top	2	2	2	2	2
Slide cutaway	2.5	2.5	2.5	2.5	2.5
Air screw	PTO 1 MAG 1	PTO 1-1/4 MAG 1	PTO 1-1/2 MAG 1	PTO 1-1/2 MAG 1	PTO 1-1/2 MAG 1
Idle speed (RPM)	1800-2000	1800-2000	1800-2000	1800-2000	1800-2000

DRIVE PULLEY

Altitude / Clutching	SEA LEVEL	4000 FT	6000 FT	8000 FT	10 000 FT
Return spring	Blue/Green 414 8177 00	Purple/Purple 414 8179 00	Purple/Purple 414 8179 00	Purple/Purple 414 8179 00	Purple/Purple 414 8179 00
Centrifugal level arm	420 4484 55	420 4484 55	420 4484 55	420 4484 55	420 4484 55
Calibration washers or pin	420 4291 40 (hollow)	420 4291 40 (hollow)	420 4291 40 (hollow)	420 4291 40 (hollow)	420 4291 40 (hollow)
Governor cup or ramp	228 420 4802 28	228 420 4802 28	228 420 4802 28	228 420 4802 28	228 420 4802 28
Calibration screw position	3	3	4	4	5

DRIVEN PULLEY

Altitude / Gearing	SEA LEVEL	4000 FT	6000 FT	8000 FT	10 000 FT
Spring preload	12 lb $^{+3}_{-0}$	12 lb $^{+3}_{-0}$	12 lb $^{+3}_{-0}$	12 lb $^{+3}_{-0}$	12 lb $^{+3}_{-0}$
Cam	50° 504 1401 00	44° 504 0913 00	44° 504 0913 00	44° 504 0913 00	44° 504 0913 00
Chaincase gearing	25/44	25/44	25/44	25/44	25/44

SPECIAL SET-UP NOTES:

Model 3873/3874.

▼ 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	PTO	360	300	270	250	240
– 40°F	MAG	370	310	290	270	260
– 30°C	PTO	350	290	260	240	220
– 20°F	MAG	360	300	280	260	240
– 20°C	**PTO**	**340**	**280**	**250**	**230**	**210**
– 4°F	**MAG**	**350**	**290**	**270**	**250**	**230**
– 10°C	PTO	330	270	240	220	200
14°F	MAG	340	280	260	240	220
0°C	PTO	320	260	230	210	195
32°F	MAG	330	270	250	230	215
10°C	PTO	310	250	220	200	190
50°F	MAG	320	260	240	220	210
20°C	PTO	300	240	210	190	185
70°F	MAG	310	250	230	210	205

HIGH ALTITUDE KIT (P/N 861 7417 00)

CARBURETOR

Altitude / Calibration	SEA LEVEL	4000 FT	6000 FT	8000 FT	10 000 FT
Main jet	PTO 360 MAG 360	PTO 320 MAG 320	PTO 290 MAG 300	PTO 270 MAG 280	PTO 250 MAG 260
Needle jet	224 AA-6	224 AA-4	224 AA-2	224 AA-0	224 AA-0
Pilot jet	50	55	60	60	60
Needle	7DL07	7DL07	7DL07	7DL07	7DL07
Needle clip position from top	3	3	3	3	3
Slide cutaway	2.5	2.5	2.5	2.5	2.5
Air screw	PTO 3/4 MAG 3/4	PTO 7/8 MAG 7/8	PTO 1 MAG 1	PTO 1 MAG 1	PTO 1 MAG 1
Idle speed (RPM)	1800-2000	1800-2000	1800-2000	1800-2000	1800-2000

DRIVE PULLEY

Altitude / Clutching	SEA LEVEL	4000 FT	6000 FT	8000 FT	10 000 FT
Return spring	Yellow 414 8176 00	Purple/Purple 414 8179 00	Purple/Purple 414 8179 00	Purple/Purple 414 8179 00	Purple/Purple 414 8179 00
Centrifugal level arm	420 4484 00	420 4484 00	420 4484 00	420 4484 00	420 4484 00
Calibration washers or pin	420 4291 40 (hollow)	420 4291 40 (hollow)	420 4291 40 (hollow)	420 4291 40 (hollow)	420 4291 40 (hollow)
Governor cup or ramp	228 420 4802 28	228 420 4802 28	228 420 4802 28	228 420 4802 28	228 420 4802 28
Calibration screw position	3	3	4	4	5

DRIVEN PULLEY

Altitude / Gearing	SEA LEVEL	4000 FT	6000 FT	8000 FT	10 000 FT
Spring preload	12 lb $^{+3}_{-0}$	12 lb $^{+3}_{-0}$	12 lb $^{+3}_{-0}$	12 lb $^{+3}_{-0}$	12 lb $^{+3}_{-0}$
Cam	50° 504 1401 00	44° 504 0913 00	44° 504 0913 00	44° 504 0913 00	44° 504 0913 00
Chaincase gearing	25/44	25/44	25/44	25/44	25/44

SPECIAL SET-UP NOTES:
Model 3875.

▼ 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	PTO	390	350	320	300	280
– 40°F	MAG	390	350	330	310	290
– 30°C	PTO	370	330	300	280	260
– 20°F	MAG	370	330	310	290	270
– 20°C	**PTO**	**360**	**320**	**290**	**270**	**250**
– 4°F	**MAG**	**360**	**320**	**300**	**280**	**260**
– 10°C	PTO	350	310	280	260	240
14°F	MAG	350	310	290	270	250
0°C	PTO	340	300	270	250	230
32°F	MAG	340	300	280	260	240
10°C	PTO	330	290	260	240	220
50°F	MAG	330	290	270	250	230
20°C	PTO	310	270	250	220	210
70°F	MAG	310	270	260	230	220

HIGH ALTITUDE KIT (P/N 861 7420 00)

CARBURETOR

Altitude / Calibration	SEA LEVEL	4000 FT	6000 FT	8000 FT	10 000 FT
Main jet	PTO 290 MAG 280	PTO 260 MAG 250	PTO 220 MAG 220	PTO 210 MAG 210	PTO 200 MAG 200
Needle jet	159 N-4	159 N-4	159 N-2	159 N-2	159 N-2
Pilot jet	35	40	45	50	50
Needle	6DHN44	6DHN44	6DHN44	6DHN44	6DHN44
Needle clip position from top	3	3	3	3	3
Slide cutaway	2.5	2.5	2.5	2.5	2.5
Air screw	PTO 3/4 MAG 3/4	PTO 3/4 MAG 3/4	PTO 1 MAG 3/4	PTO 1 MAG 3/4	PTO 1 MAG 3/4
Idle speed (RPM)	1600-1800	1600-1800	1800-2000	1800-2000	1800-2000

DRIVE PULLEY

Altitude / Clutching	SEA LEVEL	4000 FT	6000 FT	8000 FT	10 000 FT
Return spring	Blue/Yellow 414 6895 00	Purple/Purple 414 8179 00	Purple/Purple 414 8179 00	Purple/Purple 414 8179 00	Purple/Purple 414 8179 00
Centrifugal level arm	420 4484 55	420 4484 55	420 4484 55	420 4484 55	420 4484 55
Calibration washers or pin	420 4291 40 (hollow)	420 4291 40 (hollow)	420 4291 40 (hollow)	420 4291 40 (hollow)	420 4291 40 (hollow)
Governor cup or ramp	228 420 4802 28	227 420 4802 27	227 420 4802 27	227 420 4802 27	227 420 4802 27
Calibration screw position	4	2	3	3	4

DRIVEN PULLEY

Altitude / Gearing	SEA LEVEL	4000 FT	6000 FT	8000 FT	10 000 FT
Spring preload	12 lb $^{+3}_{-0}$	12 lb $^{+3}_{-0}$	12 lb $^{+3}_{-0}$	12 lb $^{+3}_{-0}$	12 lb $^{+3}_{-0}$
Cam	44° 504 0913 00	44° 504 0913 00	44° 504 0913 00	44° 504 0913 00	44° 504 0913 00
Chaincase gearing	23/44	23/44	23/44	23/44	23/44

SPECIAL SET-UP NOTES:
Model 3870.

▼ 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	PTO	310	280	240	230	220
– 40°F	MAG	300	270	240	230	220
– 30°C	PTO	300	270	230	220	210
– 20°F	MAG	290	260	230	220	210
– 20°C	**PTO**	**290**	**260**	**220**	**210**	**200**
– 4°F	**MAG**	**280**	**250**	**220**	**210**	**200**
– 10°C	PTO	280	250	210	200	190
14°F	MAG	270	240	210	200	190
0°C	PTO	270	240	200	190	185
32°F	MAG	260	230	200	190	185
10°C	PTO	260	230	195	185	175
50°F	MAG	250	220	195	185	175
20°C	PTO	250	220	185	175	165
70°F	MAG	240	210	185	175	165

SEA LEVEL TECHNICAL DATA - 1994 MODELS

1994 - SUMMIT 470

HIGH ALTITUDE KIT (P/N 861 7423 00)

CARBURETOR

Altitude / Calibration	SEA LEVEL	4000 FT	6000 FT	8000 FT	10 000 FT
Main jet	PTO 380 MAG 400	PTO 380 MAG 400	PTO 380 MAG 400	PTO 380 MAG 400	PTO 380 MAG 400
Needle jet	159 O-2	159 O-2	159 O-2	159 O-2	159 O-2
Pilot jet	75	75	75	75	75
Needle	6FL14	6FL14	6FL14	6FL14	6FL14
Needle clip position from top	3	3	3	3	3
Slide cutaway	2.5	2.5	2.5	2.5	2.5
Air screw	PTO 1-5/8 MAG 1-5/8	PTO 1-5/8 MAG 1-5/8	PTO 1-5/8 MAG 1-5/8	PTO 1-5/8 MAG 1-5/8	PTO 1-5/8 MAG 1-5/8
Idle speed (RPM)	1500-1700	1500-1700	1500-1700	1500-1700	1500-1700

DRIVE PULLEY

Altitude / Clutching	SEA LEVEL	4000 FT	6000 FT	8000 FT	10 000 FT
Return spring	Blue/Yellow 414 6895 00	Purple/Purple 414 8179 00	Purple/Purple 414 8179 00	Purple/Purple 414 8179 00	Purple/Purple 414 8179 00
Centrifugal level arm	420 4484 55	420 4484 55	420 4484 55	420 4484 55	420 4484 55
Calibration washers or pin	420 4291 40 (hollow)	420 4291 40 (hollow)	420 4291 40 (hollow)	420 4291 40 (hollow)	420 4291 40 (hollow)
Governor cup or ramp	228 420 4802 28	227 420 4802 27	227 420 4802 27	227 420 4802 27	227 420 4802 27
Calibration screw position	4	2	3	4	4

DRIVEN PULLEY

Altitude / Gearing	SEA LEVEL	4000 FT	6000 FT	8000 FT	10 000 FT
Spring preload	12 lb $^{+3}_{-0}$	12 lb $^{+3}_{-0}$	12 lb $^{+3}_{-0}$	12 lb $^{+3}_{-0}$	12 lb $^{+3}_{-0}$
Cam	44° 504 0913 00	44° 504 0913 00	44° 504 0913 00	44° 504 0913 00	44° 504 0913 00
Chaincase gearing	22/44	22/44	22/44	22/44	22/44

SPECIAL SET-UP NOTES:

Model 3871.

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

HIGH ALTITUDE KIT (P/N 861 7424 00)

CARBURETOR

Altitude / Calibration	SEA LEVEL	4000 FT	6000 FT	8000 FT	10 000 FT
Main jet	PTO 490 MAG 490	PTO 490 MAG 490	PTO 490 MAG 490	PTO 490 MAG 490	PTO 490 MAG 490
Needle jet	480 Q-4	480 Q-4	480 Q-4	480 Q-4	480 Q-4
Pilot jet	75	75	75	75	75
Needle	6FL14	6FL14	6FL14	6FL14	6FL14
Needle clip position from top	3	3	3	3	3
Slide cutaway	2.5	2.5	2.5	2.5	2.5
Air screw	PTO 2.25 MAG 2.25	PTO 2.25 MAG 2.25	PTO 2.25 MAG 2.25	PTO 2.25 MAG 2.25	PTO 2.25 MAG 2.25
Idle speed (RPM)	1800-2000	1800-2000	1800-2000	1800-2000	1800-2000

DRIVE PULLEY

Altitude / Clutching	SEA LEVEL	4000 FT	6000 FT	8000 FT	10 000 FT
Return spring	Blue/Green 414 8177 00	Purple/Purple 414 8179 00	Purple/Purple 414 8179 00	Purple/Purple 414 8179 00	Purple/Purple 414 8179 00
Centrifugal level arm	420 4484 55	420 4484 55	420 4484 55	420 4484 55	420 4484 55
Calibration washers or pin	420 4291 40 (hollow)	420 4291 40 (hollow)	420 4291 40 (hollow)	420 4291 40 (hollow)	420 4291 40 (hollow)
Governor cup or ramp	228 420 4802 28	228 420 4802 28	228 420 4802 28	228 420 4802 28	228 420 4802 28
Calibration screw position	3	3	4	4	5

DRIVEN PULLEY

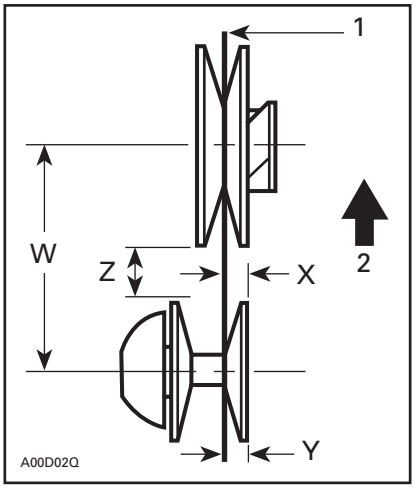
Altitude / Gearing	SEA LEVEL	4000 FT	6000 FT	8000 FT	10 000 FT
Spring preload	12 lb $^{+3}_{-0}$	12 lb $^{+3}_{-0}$	12 lb $^{+3}_{-0}$	12 lb $^{+3}_{-0}$	12 lb $^{+3}_{-0}$
Cam	44° 504 0960 00	44° 504 0960 00	44° 504 0960 00	44° 504 0960 00	44° 504 0960 00
Chaincase gearing	23/44	23/44	23/44	23/44	23/44

SPECIAL SET-UP NOTES:

Model 3876.
There is no need to adjust the carburators.
The Summit family is equip with a HAC system that provide to it.

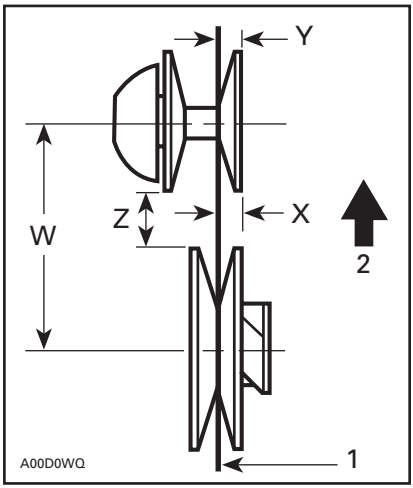
PULLEY ALIGNMENT - 1994 MODELS (as an example)

ÉLAN AND ALPINE II



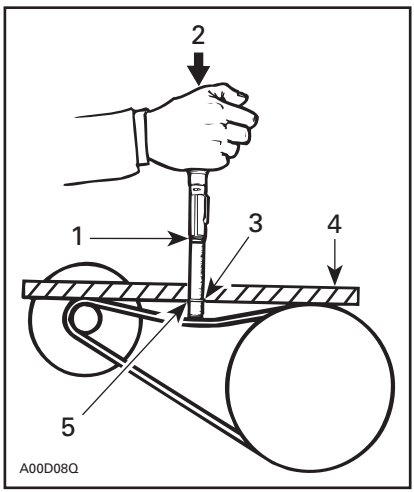
1. *Straight bar*
2. *Front*

ALL OTHERS



1. *Straight bar*
2. *Front*

DRIVE BELT DEFLECTION MEASUREMENT



BELT TENSION TESTER (P/N 414 3482 00)

1. *Upper O-ring*
2. *Force*
3. *Deflection*
4. *Reference rule*
5. *Lower O-ring*

1994 (AS AN EXAMPLE)

MODEL	W	X	Y – X	Z	BELT DEFLECTION		BELT HEIGHT 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)

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High altitude technical data sheets (1994-1998): P/N 484 0686 00 (binder sold separately).

Three-ring binder (8-1/2 x 5-1/2): P/N 484 0545 00.

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