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ski-doo® Bombardier

SNOWMOBILES

S

SERVICE Bulletin

No. 2000-1

REVISION 1

Date: October 22, 1999

SUBJECT: High Altitude Specifications

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
2000	All (except Summit* Series)	All (except Summit* Series)	All (except Summit* Series)

The present *Bulletin* supplies all informations pertaining to parts **required to modify** above mentioned models for **high altitude riding**.

For 1999 and previous model years, refer to *High Altitude and Sea Level Data* booklet, (P/N 484 300 003).

CAUTION: The following modifications and adjustments apply only for altitudes above 600 m (2000 ft).

TUNDRA R

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Turquoise 417 115 900	←	Yellow/Green on Violet 417 118 500	←	←	←
Block (Bombardier Lite)	417 114 300	←	←	←	←	←
Weight (Bombardier Lite)	Qty 3 x 3 417114 400	Qty 3 x 2 ←	Qty 3 x 3 ←	Qty 3 x 2 ←	Qty 3 x 1 ←	---
Capsule (Bombardier Lite)	Qty 3 x 1 417114 500	← ←	← ←	Qty 3 x 2 ←	Qty 3 x 2 ←	Qty 3 x 3 ←
Engagement RPM ± 100	3000	←	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		Yellow 415 094 300	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	0.0 Position 3 0.0	←	←	←	←	←
Cam angle	° (degrees)	37.8° 417 126 350	←	←	←	←	←

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

CARBURATION

Altitude / Calibration		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		190	185	175	150	140	130	1
Jet needle		6DH4	←	←	←	←	←	1
Needle position		2	←	←	1	←	←	—
Slide cut-away		2.5	←	←	←	←	←	1
Pilot jet		40	←	←	←	←	←	1
Air screw		1.00	←	←	0.75	←	←	—
Valve seat		1.5	←	←	←	←	←	1
Needle jet		O-8 (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	2.0	—

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	210	200	190	170	160	150	1
- 30°C - 20°F	200	190	180	160	150	140	1
- 20°C - 4°F	**190**	**185**	**175**	**150**	**140**	**130**	**1**
- 10°C 14°F	185	180	170	145	135	125	1
0°C 32°F	180	175	165	140	130	120	1
10°C 50°F	170	165	155	130	120	110	1
20°C 70°F	165	160	150	125	115	105	1

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

NOTE: Shaded columns give factory settings.

TOURING E/SKANDIC 380

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 417 125 300	←	Red/Blue on Violet 417 118 400	←	←	←
Block (Bombardier Lite)	417 118 100	←	←	←	←	←
Weight (Bombardier Lite)	Qty 3 x 1 417 120 400	←	Qty 3 x 5 417 114 400	Qty 3 x 4 ←	Qty 3 x 3 ←	Qty 3 x 2 ←
Capsule (Bombardier Lite)	Qty 3 x 1 417 114 500	←	←	←	←	←
Engagement RPM ± 100	2500	←	3100	←	←	←
Maximum RPM ± 100	6900	←	←	←	←	←

DRIVEN PULLEY

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

Additional Information: At and above 2400 m (8000 ft) use reverse connector (P/N 515 174 700).

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

CARBURATION

Altitude / Calibration		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		140 140	135 135	130 130	125 125	115 115	110 110	2
Jet needle		6DP9	←	←	←	←	←	2
Needle position		3	←	←	2	←	←	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		40	←	←	←	←	←	2
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-0 (159)	←	←	O-8 (159)	←	←	2
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM ± 200	1650	←	←	←	←	←	—
Idle throttle valve position	mm	1.3	←	←	1.7	←	←	—

Touring E

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
Air screw	1.25	←	←	1.50	←	←	2

Skandic 380

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
Air screw	1.25	←	←	0.50	←	←	2

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	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.

NOTE: Shaded columns give factory settings.

FORMULA S/FORMULA DLX 380

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 on Violet 417 118 400	←	←	←	←	←
Block (Bombardier Lite)	417 118 100	←	←	←	←	←
Weight (Bombardier Lite)	Qty 3 x 1 417 120 400	←	Qty 3 x 5 417 114 400	Qty 3 x 4 ←	Qty 3 x 3 ←	Qty 3 x 2 ←
Capsule (Bombardier Lite)	Qty 3 x 1 417 114 500	←	←	←	←	←
Engagement RPM ± 100	3500	←	←	←	←	←
Maximum RPM ± 100	6900	←	←	←	←	←

DRIVEN PULLEY — Formula S

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

DRIVEN PULLEY — Formula DLX 380

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

Additional Information: **(for Formula DeLuxe 380 only)** At and above 2400 m (8000 ft) use reverse connector (P/N 515 174 700).

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

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

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			1.50			2
Valve seat		1.5	←	←	←	←	←	2
Needle jet		P-0 (159)	←	←	O-8 (159)	←	←	2
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM ± 200	1650	←	←	←	←	←	—
Idle throttle valve position	mm	1.3	←	←	1.7	←	←	—

MAIN JET CHART

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

NOTE: Shaded columns give factory settings.

DRIVE PULLEY

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

DRIVEN PULLEY

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

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

CARBURATION

Altitude / Calibration		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		205 195	195 185	185 175	175 165	165 155	155 145	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	←	←	←	←	←	—
Needle jet		P-0 (159)	←	←	O-8 (159)	←	←	2
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM ± 200	1650	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	←	←	1.7	←	←	—

MAIN JET CHART

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

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

NOTE: Shaded columns give factory settings.

TOURING LE

DRIVE PULLEY

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

DRIVEN PULLEY

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

Additional Information: At and above 2400 m (8000 ft) use reverse connector (P/N 515 174 700).

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

CARBURATION

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

MAIN JET CHART

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

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

NOTE: Shaded columns give factory settings.

SKANDIC WT

DRIVE PULLEY

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

DRIVEN PULLEY

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

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

CARBURATION

Altitude / Calibration		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		185	175	165	155	145	135	PTO MAG
Jet needle		6DH2	←	←	←	←	←	2
Needle position		3	←	←	2	←	←	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		40	←	←	←	←	←	2
Air screw		1.25	←	←	1.75	←	←	—
Valve seat		1.5	←	←	←	←	←	—
Needle jet		P-2 (159)	←	←	←	←	←	2
Float level	mm	36.5	←	←	←	←	←	—
Idle	RPM ± 200	1500 - 1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	←	1.6	1.7	1.8	1.9	—

MAIN JET CHART

Altitude / Temperature	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
- 40°C - 40°F	195	185	175	165	155	145	PTO MAG
- 30°C - 20°F	190	180	170	160	150	140	PTO MAG
- 20°C - 4°F	**185**	**175**	**165**	**155**	**145**	**135**	**PTO MAG**
- 10°C 14°F	180	170	160	150	140	130	PTO MAG
0°C 32°F	175	165	155	145	135	125	PTO MAG
10°C 50°F	170	160	150	140	130	120	PTO MAG
20°C 70°F	165	155	145	135	125	115	PTO MAG

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

NOTE: Shaded columns give factory settings.

FORMULA DLX 500

DRIVE PULLEY

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

DRIVEN PULLEY

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

Additional Information: At and above 2400 m (8000 ft) use reverse connector (P/N 515 174 700).

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

CARBURATION

Altitude / Calibration		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		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	←	←	←	←	←	—
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

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	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.

NOTE: Shaded columns give factory settings.

TOURING SLE/SKANDIC 500

DRIVE PULLEY

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

DRIVEN PULLEY

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

Additional Information: At and above 2400 m (8000 ft) use reverse connector (P/N 515 174 700).

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

CARBURATION

Altitude / Calibration		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		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	←	←	0.75	←	←	—
Valve seat		1.5	←	←	←	←	←	—
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

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	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.

NOTE: Shaded columns give factory settings.

FORMULA 500

DRIVE PULLEY

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

DRIVEN PULLEY

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

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

CARBURATION

Altitude / Calibration		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		300 280	280 260	260 240	240 210	220 200	200 180	PTO MAG
Jet needle		6DGY9	←	←	←	←	←	2
Needle position		2	←	←	1	←	←	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		50	←	←	55	←	←	2
Air screw		1.0	←	←	2.5	←	←	—
Valve seat		1.5 (V)	←	←	←	←	←	—
Needle jet		Q-3 (480)	←	←	←	←	←	2
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.8	1.9	2.1	2.3	2.4	2.5	—

MAIN JET CHART

Altitude / Temperature	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
- 40°C - 40°F	320 300	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.

NOTE: Shaded columns give factory settings.

FORMULA DLX 500 LC

DRIVE PULLEY

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

DRIVEN PULLEY

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

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

CARBURATION

Altitude / Calibration		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		300 280	280 260	260 240	240 210	220 200	200 180	PTO MAG
Jet needle		6DGY9	←	←	←	←	←	2
Needle position		2	←	←	1	←	←	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		50	←	←	55	←	←	2
Air screw		1.0	←	←	2.5	←	←	—
Valve seat		1.5 (V)	←	←	←	←	←	—
Needle jet		Q-3 (480)	←	←	←	←	←	2
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.8	1.9	2.1	2.3	2.4	2.5	—

MAIN JET CHART

Altitude / Temperature	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
- 40°C - 40°F	320 300	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.

NOTE: Shaded columns give factory settings.

TOURING 500 LC

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/Green 414 817 700	←	←	Blue/Blue 414 689 400	←	←
Ramp	417 005 228	←	←	←	←	←
Calibration Screw Position	2	3	4	4	5	6
Pin	417 004 309	←	←	←	←	←
Engagement RPM ± 100	3600	←	←	←	←	←
Maximum RPM ± 100	7800	←	←	←	←	←

DRIVEN PULLEY

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

CAUTION: The following 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		1.0	←	←	2.5	←	←	—
Valve seat		1.5 (V)	←	←	←	←	←	—
Needle jet		Q-3 (480)	←	←	←	←	←	2
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.8	1.9	2.1	2.3	2.4	2.5	—

MAIN JET CHART

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

NOTE: Shaded columns give factory settings.

SKANDIC WT LC

DRIVE PULLEY

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

DRIVEN PULLEY

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

Additional Information: At and above 1800 m (6000 ft) unscrew rave caps by two (2) turns.

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

CARBURATION

Altitude / Calibration		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		250 240	240 230	230 220	220 210	210 200	200 190	PTO MAG
Jet needle		6DGH 10	←	←	←	←	←	2
Needle position		2	←	←	1	←	←	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		40	←	←	←	←	←	2
Air screw		1.5	←	←	1.0	←	←	—
Valve seat		1.5	←	←	←	←	←	—
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

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	270 260	260 250	250 240	240 230	230 220	220 210	PTO MAG
- 30°C - 20°F	260 250	250 240	240 230	230 220	220 210	210 200	PTO MAG
- 20°C - 4°F	**250 240**	**240 230**	**230 220**	**220 210**	**210 200**	**200 190**	**PTO MAG**
- 10°C 14°F	240 230	230 220	220 210	210 200	200 190	190 180	PTO MAG
0°C 32°F	230 220	220 210	210 200	200 190	190 180	180 170	PTO MAG
10°C 50°F	220 210	210 200	200 190	190 180	180 170	170 160	PTO MAG
20°C 70°F	210 200	200 190	190 180	170 170	160 160	150 150	PTO MAG

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

NOTE: Shaded columns give factory settings.

MX Z 500

DRIVE PULLEY

Clutching \ Altitude	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Green/Blue 414 768 200	←	←	Violet/green 415 015 400	←	←
Ramp	417 005 281	←	←	←	←	←
Calibration Screw Position	3	4	5	3	4	5
Pin	417 004 308	←	←	417 004 309	←	←
Engagement RPM ± 100	4100	←	←	←	←	←
Maximum RPM ± 100	8000	←	←	←	←	←

DRIVEN PULLEY

Clutching \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Beige 414 558 900	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	44° 417 126 333	←	←	40° - 44° 417 126 321	←	←

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

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		280	270	250	230	220	210	PTO MAG
Jet needle		6DEY 10/4	←	←	←	←	←	2
Needle position		4	←	←	1	←	←	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		40	←	←	←	←	←	2
Air screw		1.25	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	—
Needle jet		P-8 (480)	←	←	P-6 (480)	←	←	2
Float level	mm	22.9	←	←	←	←	←	—
Idle	RPM ± 200	1700	←	←	←	←	←	—
Idle throttle valve position	mm	1.4	1.5	1.6	1.8	1.9	2.0	—

MAIN JET CHART

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

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

NOTE: Shaded columns give factory settings.

MX Z 600

DRIVE PULLEY

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

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Beige 414 558 900	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	8.2 18.0	←	←
Cam angle	° (degrees)	50° 417 126 343	←	←	←	←	←

Additional Information: At and above 2400 m (8000 ft) or in deep snow, use 22 teeth sprocket (P/N 504 083 500) with 70 links chain (P/N 412 106 800) to get chaincase ratio of 22/43.

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

NOTE: Shaded columns give factory settings.

CARBURATION

Altitude / Calibration		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty	
Main jet		280	270	250	230	220	210	PTO MAG	←
Jet needle		7DFY1	←	←	←	←	←	2	←
Needle position		3	←	←	←	←	←	—	←
Slide cut-away		2.5	←	←	←	←	←	2	
Pilot jet		37.5	←	←	45	←	←	2	←
Air screw		0.5	←	←	0.75	←	←	—	←
Valve seat		1.5 (V)	←	←	←	←	←	—	
Needle jet		Z-9 (224)	←	←	Z-7 (224)	←	←	2	←
Float level	mm	22.9	←	←	←	←	←	—	
Idle	RPM ± 200	1600	←	←	←	←	←	—	
Idle throttle valve position	mm	1.3	1.4	1.5	1.7	1.8	1.9	—	←

MAIN JET CHART

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

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

MX Z 600 (PERFORMANCE)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	←	←	←	←	Green/Blue 414 768 200	←
Ramp	←	←	←	←	417 005 294	←
Calibration Screw Position	4	5	3	4	5	6
Pin	←	417 004 308	←	←	417 004 309	←
Engagement RPM ± 100	←	4000	←	←	4200	←
Maximum RPM ± 100	←	←	←	←	8000	←

DRIVEN PULLEY

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

NOTE: For *Carburation and Main Jet* charts, refer to **preceding page**, MX Z 600.

MX Z 600 SB (PERFORMANCE)

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	←	←	←	←	Green/Blue 414 768 200	←
Ramp	←	←	←	←	417 005 294	←
Calibration Screw Position	4	5	3	4	5	6
Pin	←	←	←	←	417 004 309	←
Engagement RPM ± 100	←	4000	←	←	4200	←
Maximum RPM ± 100	←	←	←	←	8000	←

DRIVEN PULLEY

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

NOTE: For *Carburation and Main Jet* charts, refer to **following page**, MX Z 600 SB.

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

NOTE: Shaded columns give factory settings.

MX Z 600 SB

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/Yellow 415 015 300	←	←	Blue/Orange 414 639 000	←	←
Ramp	417 005 281	←	←	←	←	←
Calibration Screw Position	3	4	5	3	4	5
Pin	417 004 308	←	←	417 004 309	←	←
Engagement RPM ± 100	3800	←	←	←	←	←
Maximum RPM ± 100	8000	←	←	←	←	←

DRIVEN PULLEY

Clutching \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Beige 414 558 900	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	8.2 18.0	←	←
Cam angle	° (degrees)	50° 417 126 343	←	←	←	←	←

Additional Information: At and above 2400 m (8000 ft) or in deep snow, use 22 teeth sprocket (P/N 504 083 500) with 70 links chain (P/N 412 106 800) to get chaincase ratio of 22/4

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

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		280	270	250	230	220	210	PTO MAG
Jet needle		7DFY 1	←	←	←	←	←	2
Needle position		3	←	←	←	←	←	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		37.5	←	←	45	←	←	2
Air screw		0.50	←	←	0.75	←	←	—
Valve seat		1.5 (V)	←	←	←	←	←	—
Needle jet		Z-9 (224)	←	←	Z-7 (224)	←	←	2
Float level	mm	22.9	←	←	←	←	←	—
Idle	RPM ± 200	1600	←	←	←	←	←	—
Idle throttle valve position	mm	1.3	1.4	1.5	1.7	1.8	1.9	—

MAIN JET CHART

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

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

NOTE: Shaded columns give factory settings.

FORMULA DLX 600

DRIVE PULLEY

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

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Beige 414 558 900	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	8.2 18.0	←	←
Cam angle	° (degrees)	50° 417 126 343	←	←	←	←	←

Additional Information: At and above 2400 m (8000 ft) or in deep snow, use 22 teeth sprocket (P/N 504 083 500) with 70 links chain (P/N 412 106 800) to get chaincase ratio of 22/43.

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

NOTE: Shaded columns give factory settings.

CARBURATION

Altitude / Calibration		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		280	270	250	230	220	210	PTO MAG
Jet needle		7DFY 1	←	←	←	←	←	2
Needle position		3	←	←	←	←	←	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		37.5	←	←	45	←	←	2
Air screw		0.50	←	←	0.75	←	←	—
Valve seat		1.5 (V)	←	←	←	←	←	—
Needle jet		Z-9 (224)	←	←	Z-7 (224)	←	←	2
Float level	mm	22.9	←	←	←	←	←	—
Idle	RPM ± 200	1600	←	←	←	←	←	—
Idle throttle valve position	mm	1.3	1.4	1.5	1.7	1.8	1.9	—

MAIN JET CHART

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

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

GRAND TOURING 600

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Blue/Yellow 414 689 500	←	←	←	←	←
Ramp	417 005 281	←	←	←	←	←
Calibration Screw Position	3	4	5	3	4	5
Pin	417 004 308	←	←	417 004 309	←	←
Engagement RPM ± 100	3600	←	←	←	←	←
Maximum RPM ± 100	8000	←	←	←	←	←

DRIVEN PULLEY

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

Additional Information: At and above 2400 m (8000 ft) or in deep snow, use 22 teeth sprocket (P/N 504 083 500) with 70 links chain (P/N 412 106 800) to get chaincase ratio of 22/43.

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

CARBURATION

Calibration / Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		280	270	250	230	220	210	PTO MAG
Jet needle		7DFY 1	←	←	←	←	←	2
Needle position		3	←	←	←	←	←	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		37.5	←	←	45	←	←	2
Air screw		0.50	←	←	0.75	←	←	—
Valve seat		1.5 (V)	←	←	←	←	←	—
Needle jet		Z-9 (224)	←	←	Z-7 (224)	←	←	2
Float level	mm	22.9	←	←	←	←	←	—
Idle	RPM ± 200	1600	←	←	←	←	←	—
Idle throttle valve position	mm	1.3	1.4	1.5	1.7	1.8	1.9	—

MAIN JET CHART

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

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

NOTE: Shaded columns give factory settings.

MX Z 700

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Green/Violet 414 762 800	←	←	Violet/Yellow 415 015 300	←	←
Ramp	417 222 271	←	←	417 005 297	←	←
Calibration Screw Position	3	4	5	3	4	5
Pin	417 004 308	←	←	417 004 309	←	←
Engagement RPM ± 100	3800	←	←	←	←	←
Maximum RPM ± 100	8000	←	←	←	←	←

DRIVEN PULLEY

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

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

CARBURATION

Calibration / Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		280	270	250	230	220	210	PTO MAG
Jet needle		7DHY 6	←	←	←	←	←	2
Needle position		3	←	←	←	←	←	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		45	←	←	←	←	←	2
Air screw		1.0	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	—
Needle jet		Z-7 (224)	←	←	Z-5 (224)	←	←	2
Float level	mm	22.9	←	←	←	←	←	—
Idle	RPM ± 200	1600	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	1.6	1.7	1.8	1.9	2.2	—

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	300	290	270	250	240	230	PTO MAG
- 30°C - 20°F	290	280	260	240	230	220	PTO MAG
- 20°C - 4°F	**280**	**270**	**250**	**230**	**220**	**210**	**PTO MAG**
- 10°C 14°F	270	260	240	220	210	205	PTO MAG
0°C 32°F	260	250	230	210	205	200	PTO MAG
10°C 50°F	250	240	220	205	200	195	PTO MAG
20°C 70°F	240	230	210	200	195	190	PTO MAG

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

NOTE: Shaded columns give factory settings.

MX Z 700 SB

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Green/Violet 414 762 800	←	←	Violet/Yellow 415 015 300	←	←
Ramp	417 222 271	←	←	417 005 297	←	←
Calibration Screw Position	3	4	5	3	4	5
Pin	417 004 308	←	←	417 004 309	←	←
Engagement RPM ± 100	3800	←	←	←	←	←
Maximum RPM ± 100	8000	←	←	←	←	←

DRIVEN PULLEY

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

CAUTION: The following 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	←	←	←	←	←	PTO MAG
Jet needle		7DHY 6	←	←	←	←	←	2
Needle position		3	←	←	←	←	←	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		45	←	←	←	←	←	2
Air screw		1.0	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	—
Needle jet		Z-7 (224)	←	←	←	←	←	2
Float level	mm	22.9	←	←	←	←	←	—
Idle	RPM ± 200	1600	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	1.6	1.7	1.8	1.9	2.0	—

MAIN JET CHART

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

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

NOTE: Shaded columns give factory settings.

FORMULA DLX 700

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Violet/Violet 414 817 900	←	←	Violet/Yellow 415 015 300	←	←
Ramp	417 222 271	←	←	417 005 297	←	←
Calibration Screw Position	3	4	5	3	4	5
Pin	←	417 004 308	←	←	417 004 309	←
Engagement RPM ± 100	3800	←	←	←	←	←
Maximum RPM ± 100	8000	←	←	←	←	←

DRIVEN PULLEY

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

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

CARBURATION

Altitude / Calibration		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		280	270	250	230	220	210	PTO MAG
Jet needle		7DHY 6	←	←	←	←	←	2
Needle position		3	←	←	←	←	←	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		45	←	←	←	←	←	2
Air screw		1.0	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	—
Needle jet		Z-7 (224)	←	←	Z-5 (224)	←	←	2
Float level	mm	22.9	←	←	←	←	←	—
Idle	RPM ± 200	1600	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	1.6	1.7	1.8	1.9	2.2	—

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	300	290	270	250	240	230	PTO MAG
- 30°C - 20°F	290	280	260	240	230	220	PTO MAG
- 20°C - 4°F	**280**	**270**	**250**	**230**	**220**	**210**	**PTO MAG**
- 10°C 14°F	270	260	240	220	210	205	PTO MAG
0°C 32°F	260	250	230	210	205	200	PTO MAG
10°C 50°F	250	240	220	205	200	195	PTO MAG
20°C 70°F	240	230	210	200	195	190	PTO MAG

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

NOTE: Shaded columns give factory settings.

FORMULA Z 700

DRIVE PULLEY

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

DRIVEN PULLEY

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

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

NOTE: Shaded columns give factory settings.

CARBURATION

Altitude / Calibration		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		300	290	250	230	220	210	PTO MAG
Jet needle		7DHY 6	←	←	←	←	←	2
Needle position		3	←	←	←	←	←	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		40	←	←	45	←	←	2
Air screw		1.0	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	—
Needle jet		Z-7 (224)	←	←	Z-5 (224)	←	←	2
Float level	mm	22.9	←	←	←	←	←	—
Idle	RPM ± 200	1600	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	1.6	1.7	1.8	1.9	2.0	—

MAIN JET CHART

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

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

MACH 1 R

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/Violet 414 762 800	←	Violet/ Green 415 015 400	←	←	←
Ramp	417 005 297	←	417 005 285	←	←	←
Calibration Screw Position	3	4	2	3	4	5
Pin	417 004 308	←	←	417 004 309	←	←
Engagement RPM ± 100	4200	←	←	←	←	←
Maximum RPM ± 100	8500	←	←	←	←	←

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		Violet 414 978 300	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	—	—	—	—	—	—
Cam angle	° (degrees)	47° - 44° 417 126 385	←	←	←	←	←

CAUTION: The following 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	PTO CTR MAG
Jet needle		8AGY 1/41	←	←	←	←	←	3
Needle position		4	←	←	3	←	2	—
Slide cut-away		2.0	←	←	←	←	←	3
Pilot jet		50	←	←	←	←	←	3
Air screw		4.0	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	—
Needle jet		N-7 (327)	←	←	←	←	←	3
Float level	mm	21.0	←	←	←	←	←	—
Idle	RPM ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.3	1.4	1.5	1.6	1.7	1.8	—

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	260	240	210	190	PTO CTR MAG
- 30°C - 20°F	300	280	250	230	200	180	PTO CTR MAG
- 20°C - 4°F	**290**	**270**	**240**	**220**	**200**	**170**	PTO CTR MAG
- 10°C 14°F	280	260	240	210	190	170	PTO CTR MAG
0°C 32°F	270	250	230	210	180	160	PTO CTR MAG
10°C 50°F	260	240	220	200	180	160	PTO CTR MAG
20°C 70°F	250	230	210	190	170	150	PTO CTR MAG

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

NOTE: Shaded columns give factory settings.

FORMULA III 700 R

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/Yellow 415 015 300	←	←	←	←	←
Ramp	417 005 293X	←	←	←	←	←
Calibration Screw Position	3	4	5	3	4	5
Pin	417 004 308	←	←	417 004 309	←	←
Engagement RPM ± 100	3800	←	←	4200	←	←
Maximum RPM ± 100	8000	←	←	←	←	←

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		Violet 414 978 300	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	—	—	—	—	—	—
Cam angle	° (degrees)	47° - 44° 417 126 385	←	←	←	←	←

CAUTION: The following 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		270 280 270	250 260 250	230 240 230	210 220 210	190 200 190	170 180 170	PTO CTR MAG
Jet needle		6DEY2	←	←	←	←	←	3
Needle position		4	4	3	3	3	2	—
Slide cut-away		2.5	←	←	←	←	←	3
Pilot jet		50	←	←	←	←	←	3
Air screw		1.5	1.5	1.25	1.0	←	←	—
Valve seat		1.5	←	←	←	←	←	—
Needle jet		P-4 (480)	←	←	←	←	←	3
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.3	1.4	1.5	1.6	1.7	1.8	—

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	290 300 290	270 280 270	240 250 240	220 230 220	190 200 190	170 180 170	PTO CTR MAG
- 30°C - 20°F	280 290 280	260 270 260	230 240 230	210 220 210	190 200 190	170 180 170	PTO CTR MAG
- 20°C - 4°F	**270 280 270**	**250 260 250**	**230 240 230**	**210 220 210**	**180 190 180**	**160 170 160**	**PTO CTR MAG**
- 10°C 14°F	260 270 260	230 240 230	210 220 210	190 200 190	170 180 170	150 160 150	PTO CTR MAG
0°C 32°F	260 270 260	230 240 230	210 220 210	190 200 190	170 180 170	150 160 150	PTO CTR MAG
10°C 50°F	250 260 250	230 240 230	210 220 210	180 190 180	160 170 160	150 160 150	PTO CTR MAG
20°C 70°F	240 250 240	220 230 220	200 210 200	180 190 180	160 170 160	140 150 150	PTO CTR MAG

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

NOTE: Shaded columns give factory settings.

GRAND TOURING 700

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Blue/Violet 414 817 800	←	←	Violet/Yellow 415 015 300	←	←
Ramp	417 005 293X	←	←	←	←	←
Calibration Screw Position	3	4	5	3	4	5
Pin	417 004 308	←	←	417 004 309	←	←
Engagement RPM ± 100	3200	←	←	4200	←	←
Maximum RPM ± 100	8000	←	←	←	←	←

DRIVEN PULLEY

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

Additional Information: At 1800 m (6000 ft), unscrew red rave button flush to the rave cap.

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

CARBURATION

Altitude / Calibration		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		270 280 270	←	←	←	←	←	PTO CTR MAG
Jet needle		6DEY2	←	←	←	←	←	3
Needle position		4	←	←	←	←	←	—
Slide cut-away		2.5	←	←	←	←	←	3
Pilot jet		50	←	←	←	←	←	3
Air screw		1.5	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	—
Needle jet		P-4 (480)	←	←	←	←	←	3
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM ± 200	2000	←	←	←	←	←	—
Idle throttle valve position	mm	1.3	1.4	1.5	1.6	1.7	1.8	—

MAIN JET CHART

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

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

NOTE: Shaded columns give factory settings.

FORMULA III 800

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Violet/Yellow 415 015 300	←	←	←	←	←
Ramp	417 005 295	←	417 222 271	←	←	←
Calibration Screw Position	2	3	2	3	4	5
Pin	417 004 308	←	417 004 309	←	←	←
Engagement RPM ± 100	3800	←	4200	←	←	←
Maximum RPM ± 100	8000	←	←	←	←	←

DRIVEN PULLEY

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Beige 414 558 900	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.9 / 7.0	—	—	—	—	—
Cam angle	° (degrees)	50° - 47° 417 126 339	←	←	←	←	←

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

CARBURATION

Altitude / Calibration		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		340 360 340	310 330 310	280 300 280	250 270 250	220 240 220	200 220 200	PTO CTR MAG
Jet needle		8BCY 01/42	←	←	←	←	←	3
Needle position		4	4	3	3	3	2	—
Slide cut-away		2.0	←	←	←	←	←	3
Pilot jet		15	←	←	←	←	←	3
Air screw		closed	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	—
Needle jet		O2 (876)	←	←	←	←	←	3
Float level	mm	21.0	—	—	—	—	—	—
Idle	RPM ± 200	2000	←	←	←	←	←	—
Idle throttle valve position	mm	1.3	1.3	1.4	1.4	1.5	1.5	—

MAIN JET CHART

Altitude / Temperature	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
- 40°C - 40°F	360 380 360	330 350 330	300 320 300	270 290 270	240 260 240	210 230 210	PTO CTR MAG
- 30°C - 20°F	350 370 350	320 340 320	290 310 290	260 280 260	230 250 230	200 220 200	PTO CTR MAG
- 20°C - 4°F	**340 360 340**	**310 330 310**	**280 300 280**	**250 270 250**	**220 240 220**	**200 220 200**	**PTO CTR MAG**
- 10°C 14°F	330 350 330	300 320 300	270 290 270	240 260 240	210 230 210	190 210 190	PTO CTR MAG
0°C 32°F	320 340 320	290 310 290	260 280 260	230 250 230	200 220 200	180 200 180	PTO CTR MAG
10°C 50°F	310 330 310	280 300 280	250 270 250	220 240 220	200 220 200	180 200 180	PTO CTR MAG
20°C 70°F	300 320 300	270 290 270	240 260 240	210 230 210	190 210 190	170 190 170	PTO CTR MAG

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

NOTE: Shaded columns give factory settings.

GRAND TOURING SE

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/Yellow 415 015 300	←	←	←	←	←
Ramp	417 005 293X	←	←	417 222 271	←	←
Calibration Screw Position	3	3	4	3	4	5
Pin	417 004 308	←	←	417 004 309	←	←
Engagement RPM ± 100	3300	←	←	4200	←	←
Maximum RPM ± 100	8000	←	←	←	←	←

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		Violet 414 978 300	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	—	—	—	—	—	—
Cam angle	° (degrees)	47° - 44° 417 126 385	←	←	←	←	←

Additional Information: At 1800 m (6000 ft), unscrew red rave button flush to the rave cap.

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

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		340 360 340	←	←	←	←	←	PTO CTR MAG
Jet needle		8BCY 01/42	←	←	←	←	←	3
Needle position		4	←	←	←	←	←	—
Slide cut-away		2.0	←	←	←	←	←	3
Pilot jet		15	←	←	←	←	←	3
Air screw		closed	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	—
Needle jet		O2 (876)	←	←	←	←	←	3
Float level	mm	21.0	←	←	←	←	←	—
Idle	RPM ± 200	2000	←	←	←	←	←	—
Idle throttle valve position	mm	1.3	1.3	1.4	1.4	1.5	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	360 380 360	330 350 330	300 320 300	270 290 270	240 260 240	210 230 210	PTO CTR MAG
- 30°C - 20°F	350 370 350	320 340 320	290 310 290	260 280 260	230 250 230	200 220 200	PTO CTR MAG
- 20°C - 4°F	—	—	—	—	—	—	**PTO CTR MAG**
- 10°C 14°F	—	—	—	—	—	—	PTO CTR MAG
0°C 32°F	—	—	—	—	—	—	PTO CTR MAG
10°C 50°F	—	—	—	—	—	—	PTO CTR MAG
20°C 70°F	—	—	—	—	—	—	PTO CTR MAG

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

NOTE: Shaded columns give factory settings.

MACH Z/Z R

DRIVE PULLEY

Altitude / Clutching	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Green/Blue 414 768 200	←	←	Violet/Yellow 415 015 300	←	←
Ramp	417 005 295	←	←	417 005 293X	←	←
Calibration Screw Position	3	4	5	3	4	5
Pin	417 004 308	←	←	417 004 309	←	←
Engagement RPM ± 100	4200	←	←	←	←	←
Maximum RPM ± 100	8300	←	←	←	←	←

DRIVEN PULLEY (Mach Z)

Altitude / Clutching		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Spring		Beige 414 558 900	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.9/7.0	←	←	←	←	←
Cam angle	° (degrees)	53° - 44° 417 126 387	←	←	50° – 47° 417 126 339	←	←

DRIVEN PULLEY (Mach Z R)

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

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

CARBURATION

Altitude / Calibration		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		310	290	270	250	230	210	PTO CTR MAG
Jet needle		8ADY 1/41	←	←	←	←	←	3
Needle position		3	3	2	2	2	1	—
Slide cut-away		2.0	←	←	←	←	←	3
Pilot jet		50	←	←	←	←	←	3
Air screw		4.5	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	—
Needle jet		O2 (327)	←	←	←	←	←	3
Float level	mm	21.0	←	←	←	←	←	—
Idle	RPM ± 200	1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.3	1.4	1.4	1.5	1.5	1.6	—

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	330	310	290	270	240	220	PTO CTR MAG
- 30°C - 20°F	320	300	280	260	230	210	PTO CTR MAG
- 20°C - 4°F	**310**	**290**	**270**	**250**	**230**	**210**	**PTO CTR MAG**
- 10°C 14°F	300	280	260	240	220	200	PTO CTR MAG
0°C 32°F	290	270	250	230	210	190	PTO CTR MAG
10°C 50°F	280	260	240	220	200	190	PTO CTR MAG
20°C 70°F	270	250	230	210	200	180	PTO CTR MAG

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

NOTE: Shaded columns give factory settings.

SKANDIC SWT

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	Yellow/Orange 414 689 700	←	←	←	←	Blue/Yellow 414 689 500
Ramp	417 005 290	←	←	←	←	←
Calibration Screw Position	2	3	4	5	6	3
Pin	417 004 309	←	←	←	←	←
Engagement RPM ± 100	3000	←	←	←	←	3300
Maximum RPM ± 100	6800	←	←	←	←	←

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 ACS 3-188	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	40°	←	←	←	←	←

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

CARBURATION

Calibration \ Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet		185	175	165	155	145	135	PTO MAG
Jet needle		6DH2	←	←	←	←	←	2
Needle position		3	←	←	2	←	←	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		40	←	←	←	←	←	2
Air screw		1.25	←	←	1.75	←	←	—
Valve seat		1.5	←	←	←	←	←	—
Needle jet		P-2 (159)	←	←	←	←	←	2
Float level	mm	36.5	←	←	←	←	←	—
Idle	RPM ± 200	1500-1800	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	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	195	185	175	165	155	145	PTO MAG
- 30°C - 20°F	190	180	170	160	150	140	PTO MAG
- 20°C - 4°F	**185**	**175**	**165**	**155**	**145**	**135**	**PTO MAG**
- 10°C 14°F	180	170	160	150	140	130	PTO MAG
0°C 32°F	175	165	155	145	135	125	PTO MAG
10°C 50°F	170	160	150	140	130	120	PTO MAG
20°C 70°F	165	155	145	135	125	115	PTO MAG

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

NOTE: Shaded columns give factory settings.