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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		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching							
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		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Clutching							
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		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Calibration								
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		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Temperature								
- 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		Sea Level	Altitude					
			600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
Clutching								
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		Sea Level	Altitude					
			600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
Clutching								
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		Sea Level	Altitude						Qty
			600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft		
Calibration									
Main jet		140 140	135	130	125	115	110	2	
Jet needle		6DP9	←	←	←	←	←	2	
Needle position		3	←	←	2	←	←	—	
Slide cut-away		2.5	←	←	←	←	←	2	
Pilot jet		40	←	←	←	←	←	2	
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		Sea Level	Altitude						Qty
			600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft		
Calibration									
Air screw		1.25	←	←	1.50	←	←	2	

Skandic 380

Altitude		Sea Level	Altitude						Qty
			600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft		
Calibration									
Air screw		1.25	←	←	0.50	←	←	2	

MAIN JET CHART

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

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching							
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

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Clutching							
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

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Clutching							
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.

CARBURATION

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Calibration								
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

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

MX Z 440

DRIVE PULLEY

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

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching							
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

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Clutching							
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		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Calibration								
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

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Temperature								
- 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		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching							
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		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Clutching							
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		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Calibration								
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		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Temperature								
- 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	Sea Level	Altitude				
		600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching						
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	Sea Level	Altitude				
		600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Clutching						
Spring	Yellow 415 092 800	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	0.0	←	←	←	←
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	Sea Level	Altitude					Qty	
		600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft		
Calibration								
Main jet	180 170	170	160 150	150	140	130	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	Sea Level	Altitude					Qty	
		600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft		
Temperature	- 40°C	200	190	175	165	155	140	PTO MAG
	- 40°F	190	180	165	155	145	130	
	- 30°C	190	180	165	155	145	135	PTO MAG
	- 20°F	180	170	155	145	135	125	
	- 20°C	180	170	160	150	140	130	PTO MAG
	- 4°F	170	160	150	140	130	120	
	- 10°C	170	160	155	145	135	125	PTO MAG
	14°F	160	150	145	135	125	115	
	0°C	165	155	150	140	130	120	PTO MAG
	32°F	155	145	140	130	120	110	
	10°C	160	150	140	130	125	115	PTO MAG
	50°F	150	140	130	120	115	105	
	20°C	155	145	135	125	120	110	PTO MAG
	70°F	145	135	125	115	110	100	

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		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching							
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		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Clutching							
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		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Calibration								
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		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Temperature								
- 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		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching							
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		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Clutching							
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		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Calibration								
Main jet		300 280	280	260	240	220	200	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		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Temperature								
- 40°C - 40°F		320 300	300	280	260	240	220	PTO MAG
- 30°C - 20°F		310 290	290	270	250	230	210	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		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching							
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		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Clutching							
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		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Calibration								
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		O-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		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Temperature								
- 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

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

DRIVEN PULLEY

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Clutching							
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

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Calibration								
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		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Temperature								
- 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		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching							
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		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Clutching							
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		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Calibration								
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		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Temperature								
- 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	180 170	170 160	160 150	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

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching							
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

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Clutching							
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

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Calibration								
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

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

CARBURATION

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Calibration								
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		7.9 (224)	←	←	7.7 (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		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Temperature								
- 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 (PERFORMANCE)

DRIVE PULLEY

Altitude		DRIVE PULLEY					
		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching							
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		DRIVEN PULLEY					
		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Clutching							
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		DRIVE PULLEY					
		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching							
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		DRIVEN PULLEY					
		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Clutching							
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

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

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

MAIN JET CHART

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.

CARBURATION

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	—

NOTE: Shaded columns give factory settings.

FORMULA DLX 600

DRIVE PULLEY

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching							
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		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Clutching							
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

CARBURATION

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Calibration								
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		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Temperature								
- 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: Shaded columns give factory settings.

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

GRAND TOURING 600

DRIVE PULLEY

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching							
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		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Clutching							
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

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

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

NOTE: Shaded columns give factory settings.

MACH 1 R

DRIVE PULLEY

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching							
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

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching							
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		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Calibration								
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

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

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching							
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

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Clutching							
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		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Calibration								
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

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

NOTE: Shaded columns give factory settings.

CARBURATION

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

FORMULA III 800

DRIVE PULLEY

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

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching							
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

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Clutching							
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		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Calibration								
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

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

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Clutching							
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

Altitude		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2000 m 8000 ft	3000 m 10000 ft
Clutching							
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		Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Calibration								
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

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