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SNOWMOBILES



SERVICE
Bulletin

No. **2001-2**

REVISION 1 ←

Date: December 15, 2000

SUBJECT: High Altitude Specifications

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
2001	All (except Summit* Series)	All (except Summit* Series)	All (except Summit* Series)

The present bulletin supplies all information **required to modify** above mentioned models for **high altitude riding**.

For 2000 models, refer to *Service Bulletin 2000-1*.

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).

MACH Z (TECH PLUS)

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/Yellow 415 015 300	←	←
Ramp	417 005 295	←	←	417 005 293X	←	←
Calibration Screw Position	3	4	5	3	4	5
Pin	417 004 308 (Solid)	←	←	417 004 309 (Hollow)	←	←
Engagement RPM ± 100	4200	←	←	←	←	←
Maximum RPM ± 100	8300	←	←	←	←	←

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	0.0	—	—	—	—
Cam angle	° (degrees)	47° - 44° 417 126 385	←	←	←	←

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
415 015 300	Spring (Violet/Yellow)	1
417 004 309	Pin (Hollow)	3

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	←	←	←	←	←	PTO CTR MAG
Jet needle	8ADY1/41	←	←	←	←	←	3
Needle position	3	←	←	←	←	←	—
Slide cut-away	2.0	←	←	←	←	←	3
Pilot jet	50	←	←	←	←	←	3
Air screw	4.5	←	←	←	←	←	—
Valve seat	1.5	←	←	←	←	←	—
Needle jet	0-2 (327)	←	←	←	←	←	3
Float level	mm	21.0	←	←	←	←	—
Idle	RPM ± 200	2000	←	←	←	←	—
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
Temperature							
- 40°C - 40°F	290	←	←	←	←	←	PTO CTR MAG
- 30°C - 20°F							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 (STANDARD)

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/Yellow 415 015 300	←	←
Ramp	417 005 295	←	←	417 005 293X	←	←
Calibration Screw Position	3	4	5	3	4	5
Pin	417 004 308 (Solid)	←	←	417 004 309 (Hollow)	←	←
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	2400 m 8000 ft	3000 m 10000 ft
Clutching						
Spring	Beige 414 558 900	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0	←	←	←	←
Cam angle	° (degrees)	53° - 44° 417 126 387	←	←	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.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
415 015 300	Spring (Violet/Yellow)	1
417 004 309	Pin (Hollow)	3
417 126 339	Cam 50° - 47°	1
404 112 300	Main Jet 200	3
404 111 200	Main Jet 220	3
404 100 200	Main Jet 240	3
404 100 600	Main Jet 260	3
404 100 400	Main Jet 270	3
417 005 293X	Ramp	3

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	260	240	220	200	PTO CTR MAG
Jet needle	8ADY1/41	←	←	←	←	←	3
Needle position	3	3	2	2	2	1	—
Slide cut-away	2.0	←	←	←	←	←	3
Pilot jet	50	←	←	←	←	←	3
Mixture screw	4.5	←	←	←	←	←	—
Valve seat	1.5	←	←	←	←	←	—
Needle jet	02 (327)	←	←	←	←	←	3
Float level	mm	21.0	←	←	←	←	—
Idle	RPM ± 200	2000	←	←	←	←	—
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
Temperature							
- 40°C - 40°F	310	290	280	260	230	210	PTO CTR MAG
- 30°C - 20°F	300	280	270	250	230	210	PTO CTR MAG
- 20°C - 4°F	290	270	260	240	220	200	PTO CTR MAG
- 10°C 14°F	280	260	250	240	220	190	PTO CTR MAG
0°C 32°F	280	260	250	230	210	190	PTO CTR MAG
10°C 50°F	270	250	240	230	210	190	PTO CTR MAG
20°C 70°F	270	250	240	220	200	180	PTO CTR MAG

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

NOTE: Shaded columns give factory settings.

MX Z 800 (ADRENALINE) / 800 (X)

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	300 417 222 381	←	←	←	←	←
Calibration Screw Position	3	4	5	3	4	5
Pin	417 004 308 (Solid)	←	←	417 004 309 (Hollow)	←	←
Engagement RPM ± 100	3800	←	←	4100	←	←
Maximum RPM ± 100	7850	←	←	←	←	←

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	White 504 152 070	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	8.9 19.5	←	←	←	←
Cam angle	° (degrees)	53° - 47° 417 126 380	←	←	←	←

Additional information: At 1800 m (6000 ft), un-screw red RAVE screw to be flush with RAVE cap.

PART TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 004 309	Pin (Hollow)	3

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	500	←	←	←	←	←	PTO MAG
Jet needle	9ZLY2-58	←	←	←	←	←	2
Needle position	N.A.	←	←	←	←	←	—
Slide cut-away	2.0	←	←	←	←	←	2
Pilot jet	17.5	←	←	←	←	←	2
Mixture screw	1.5	←	←	←	←	←	—
Valve seat	1.5	←	←	←	←	←	—
Needle jet	P-0	←	←	←	←	←	2
Float level	mm	N.A.	—	—	—	—	—
Idle	RPM ± 200	1500	←	←	←	←	—
Idle throttle valve position	mm	1.7	←	←	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	500	←	←	←	←	←	PTO MAG
- 30°C - 20°F							PTO MAG
- 20°C - 4°F							PTO MAG
- 10°C 14°F							PTO MAG
0°C 32°F							PTO MAG
10°C 50°F							PTO MAG
20°C 70°F							PTO MAG

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

NOTE: Shaded columns give factory settings.

MX Z 800 (STANDARD)

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	300 417 222 381	←	←	←	←	←
Calibration Screw Position	3	4	5	3	4	5
Pin	417 004 308 (Solid)	←	←	417 004 309 (Hollow)	←	←
Engagement RPM ± 100	3800	←	←	4100	←	←
Maximum RPM ± 100	7850	←	←	←	←	←

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	White 504 152 070	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	8.9 19.5	←	←	←	←
Cam angle	° (degrees)	53° - 47° 417 126 380	←	←	←	←

Additional information: At 1800 m (6000 ft), un-screw red RAVE screw to be flush with RAVE cap.

At and above 2400 m (8000 ft) or in deep snow, use 22 teeth sprocket (P/N 504 083 500) with 74 links chain to get chaincase ratio of 22/43. Also, change chain to 70 link (P/N 412 106 800).

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

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 004 309	Pin (Hollow)	3
404 161 977	Jet Needle (9ZLY5-58)	2
404 106 100	Main Jet 360	2
404 106 400	Main Jet 390	2
404 107 900	Main Jet 420	2
404 108 100	Main Jet 440	2
404 106 700	Main Jet 470	2

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	500	470	440	420	390	360	PTO MAG
Jet needle	9ZLY2-58	←	←	9ZLY5-58	←	←	2
Needle position	N.A.	←	←	←	←	←	—
Slide cut-away	2.0	←	←	←	←	←	2
Pilot jet	17.5	←	←	←	←	←	2
Mixture screw	1.5	←	←	←	←	←	—
Valve seat	1.5	←	←	←	←	←	—
Needle jet	P-0	←	←	←	←	←	2
Float level	mm	N.A.	—	—	—	—	—
Idle	RPM ± 200	1500	←	←	←	←	—
Idle throttle valve position	mm	1.7	←	←	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	530	500	470	450	420	390	PTO MAG
- 30°C - 20°F	510	480	450	430	400	370	PTO MAG
- 2°C - 4°F	500	470	440	420	390	360	PTO MAG
- 10°C 14°F	490	460	430	410	380	350	PTO MAG
0°C 32°F	480	450	420	400	370	340	PTO MAG
10°C 50°F	470	440	410	390	360	330	PTO MAG
20°C 70°F	460	430	400	380	350	320	PTO MAG

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

MX Z 700 (ADRENALINE) / 700 (X)

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	←	←	←	←	←
Ramp	417 222 381	←	←	←	←	←
Calibration Screw Position	3	4	5	3	4	6
Pin	417 004 308 (Solid)	←	←	417 004 309 (Hollow)	←	←
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	2400 m 8000 ft	3000 m 10000 ft
Clutching						
Spring	White 504 152 070	←	←	←	←	←
Spring tension Kg ± 0.7 lb ± 1.5	8.9 19.5	←	←	←	←	←
Cam angle (degrees)	5° 417 126 343	←	←	←	←	←

Additional information: At 1800 m (6000 ft), unscrew red RAVE screw to be flush with RAVE cap.

PART TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 004 309	Pin (Hollow)	3

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	520	←	←	←	←	←	PTO MAG
Jet needle	9ZLY3-58	←	←	←	←	←	2
Needle position	N.A.	←	←	←	←	←	—
Slide cut-away	2.0	←	←	←	←	←	2
Pilot jet	17.5	←	←	←	←	←	2
Mixture screw	1.5	←	←	←	←	←	—
Valve seat	1.5	←	←	←	←	←	—
Needle jet	P-0	←	←	←	←	←	2
Float level	mm	—	—	—	—	—	—
Idle	RPM ± 200	1500	←	←	←	←	—
Idle throttle valve position	mm	1.5	1.6	1.7	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	520	←	←	←	←	←	PTO MAG
- 30°C - 20°F							PTO MAG
- 20°C - 4°F							PTO MAG
- 10°C 14°F							PTO MAG
0°C 32°F							PTO MAG
10°C 50°F							PTO MAG
20°C 70°F							PTO MAG

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

NOTE: Shaded columns give factory settings.

MX Z 700 (STANDARD) / 700 (TRAIL)

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	←	←	←	←	←
Ramp	417 222 381	←	←	←	←	←
Calibration Screw Position	3	4	5	3	4	6
Pin	417 004 308 (Solid)	←	←	417 004 309 (Hollow)	←	←
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	2400 m 8000 ft	3000 m 10000 ft
Clutching						
Spring	White 504 152 070	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	8.9 19.5	←	←	←	←
Cam angle (degrees)	50° 417 126 343	←	←	←	←	←

Additional information: At 1800 m (6000 ft), unscrew red RAVE screw to be flush with RAVE cap.

At and above 2400 m (8000 ft) or in deep snow, use 22 teeth sprocket (P/N 504 083 500) with 74 links chain to get chaincase ratio of 22/43. Also, change chain to 70 link (P/N 412 106 800).

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

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 004 309	Pin (Hollow)	3
404 104 900	Main Jet 340	2
404 106 300	Main Jet 380	2
404 101 000	Main Jet 410	2
404 106 500	Main Jet 450	2
404 106 800	Main Jet 480	2

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	520	480	450	410	380	340	PTO MAG
Jet needle	9ZLY3-58	←	←	←	←	←	2
Needle position	N.A.	←	←	←	←	←	—
Slide cut-away	2.0	←	←	←	←	←	2
Pilot jet	17.5	←	←	←	←	←	2
Mixture screw	1.5	←	←	←	←	←	—
Valve seat	1.5	←	←	←	←	←	—
Needle jet	P-0	←	←	←	←	←	2
Float level	mm	—	—	—	—	—	—
Idle	RPM ± 200	1500	←	←	←	←	—
Idle throttle valve position	mm	1.5	1.6	1.7	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	560	520	480	440	400	370	PTO MAG
- 30°C - 20°F	540	500	460	430	390	350	PTO MAG
- 20°C - 4°F	520	480	450	410	380	340	PTO MAG
- 10°C 14°F	500	470	430	400	360	330	PTO MAG
0°C 32°F	480	450	420	380	350	310	PTO MAG
10°C 50°F	470	440	400	370	340	300	PTO MAG
20°C 70°F	460	430	390	360	330	290	PTO MAG

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

MX Z 600 (ADRENALINE) / 600 (X)

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/White 417 222 371	←	Pink/Violet 414 754 200	←	←	←
Ramp	417 005 293	←	417 005 287	←	←	←
Calibration Screw Position	4	5	3	4	5	5
Pin	417 004 308 (Solid)	←	417 004 309 (Hollow)	←	←	←
Engagement RPM ± 100	4100	←	4300	←	←	←
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	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) chain to get chaincase ratio of 22/43.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 004 309	Pin (Hollow)	3
414 754 200	Spring (Pink/Violet)	1
417 005 287	Ramp	3

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	500	←	←	←	←	←	PTO MAG
Jet needle	9HFY2-53	←	←	←	←	←	2
Needle position	N.A.	←	←	←	←	←	—
Slide cut-away	2.0	←	←	←	←	←	2
Pilot jet	20.0	←	←	←	←	←	2
Mixture screw	1.0	←	←	←	←	←	—
Valve seat	1.5	←	←	←	←	←	—
Needle jet	P-0	←	←	←	←	←	2
Float level	mm	N.A.	—	—	—	—	—
Idle	RPM ± 200	1600	←	←	←	←	—
Idle throttle valve position	mm	1.8	1.9	2.0	2.1	2.2	2.3

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	500	←	←	←	←	←	PTO MAG
- 30°C - 20°F							PTO MAG
- 20°C - 4°F							PTO MAG
- 10°C 14°F							PTO MAG
0°C 32°F							PTO MAG
10°C 50°F							PTO MAG
20°C 70°F							PTO MAG

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

NOTE: Shaded columns give factory settings.

MX Z 600 (STANDARD) / 600 (TRAIL)

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/White 417 222 371	←	Pink/Violet 414 754 200	←	←	←
Ramp	417 005 293X	←	417 005 287	←	←	←
Calibration Screw Position	4	5	3	4	5	5
Pin	417 004 308 (Solid)	←	417 004 309 (Hollow)	←	←	←
Engagement RPM ± 100	4100	←	4300	←	←	←
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	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) 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.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 004 309	Pin (Hollow)	3
414 754 200	Spring (Pink/Violet)	1
417 005 287	Ramp	3
404 161 975	Jet Needle (9HFY-03)	2
404 101 200	Main Jet 300	2
404 104 900	Main Jet 340	2
404 106 300	Main Jet 380	2
404 107 900	Main Jet 420	2
404 106 600	Main Jet 460	2

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	500	460	420	380	340	300	PTO MAG
Jet needle	9HFY2-53	←	←	9HFY-03	←	←	2
Needle position	N.A.	←	←	←	←	←	—
Slide cut-away	2.0	←	←	←	←	←	2
Pilot jet	20.0	←	←	←	←	←	2
Mixture screw	1.0	←	←	←	←	←	—
Valve seat	1.5	←	←	←	←	←	—
Needle jet	P-0	←	←	←	←	←	2
Float level	mm	N.A.	—	—	—	—	—
Idle	RPM ± 200	1600	←	←	←	←	—
Idle throttle valve position	mm	1.8	1.9	2.0	2.1	2.2	2.3

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	540	500	460	410	370	330	PTO MAG
- 30°C - 20°F	520	480	440	400	360	320	PTO MAG
- 20°C - 4°F	500	460	420	380	340	300	PTO MAG
- 10°C 14°F	480	440	400	370	330	290	PTO MAG
0°C 32°F	470	430	390	360	320	280	PTO MAG
10°C 50°F	450	410	380	340	310	270	PTO MAG
20°C 70°F	430	400	360	330	300	260	PTO MAG

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

MX Z 500 (STANDARD) / 500 (TRAIL)

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	←	Pink/Pink 415 074 800	←	←	←
Ramp	417 005 281	←	417 005 296	←	←	←
Calibration Screw Position	3	4	2	←	4	5
Pin	417 004 308 (Solid)	←	417 004 309 (Hollow)	←	←	←
Engagement RPM ± 100	4100	←	4500	←	←	←
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	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.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 004 309	Pin (Hollow)	3
415 074 800	Spring (Pink/Pink)	1
417 005 296	Ramp	3
404 156 900	Needle Jet P-7 (480)	2
404 119 100	Main Jet 210	2
404 111 200	Main Jet 220	2
404 118 900	Main Jet 230	2
404 100 300	Main Jet 250	2

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		6DEY10	←	←	←	←	←	2	
Needle position		4	←	←	←	←	←	—	
Slide cut-away		2.5	←	←	←	←	←	2	
Pilot jet		40	←	←	←	←	←	2	
Mixture screw		1.25	←	←	←	←	←	—	
Valve seat		1.5	←	←	←	←	←	—	
Needle jet		P-8 (480)	←	←	P-7 (480)	←	←	2	
Float level	mm	22.9	←	←	←	←	←	—	
Idle	RPM ± 200	1700	←	←	←	←	←	—	
Idle throttle valve position		mm	1.4	1.6	1.8	2.0	2.2	2.3	—

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 500 F (FAN)

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	←	←	Pink/Violet 414 754 200	←	←
Ramp	417 005 287	←	←	417 005 227	←	←
Calibration Screw Position	3	4	5	3	4	5
Pin	417 004 309 (Hollow)	←	←	←	←	←
Engagement RPM ± 100	4500	←	←	←	←	←
Maximum RPM ± 100	7000	←	←	←	←	←

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	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.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
414 754 200	Spring (Pink/Violet)	1
417 005 227	Ramp	3
404 109 400	Pilot Jet 45	2
404 123 900	Main Jet 120	2
404 124 900	Main Jet 130	2
404 126 600	Main Jet 140	2
404 120 900	Main Jet 150	2
404 118 200	Main Jet 160	2
404 123 800	Main Jet 170	2

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		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
Mixture 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	1.5	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	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.

MX Z 440 F (FAN)

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	←	←	Pink/Pink 415 074 800	←	←
Ramp		414 005 287	←	←	414 005 227	←	←
Calibration Screw Position		3	4	5	3	4	5
Pin		417 004 309 (Hollow)	←	←	←	←	←
Engagement RPM ± 100		4500	←	←	←	←	←
Maximum RPM ± 100		7000	←	←	←	←	←

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		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.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
415 074 800	Spring (Pink/Pink)	1
414 005 227	Ramp	3
404 130 500	Main Jet 145	2
404 128 700	Main Jet 155	2
404 119 300	Main Jet 165	2
404 119 200	Main Jet 175	2
404 119 500	Main Jet 185	2
404 119 400	Main Jet 195	2

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		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
Mixture 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.

MX Z 380 F (FAN)

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

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 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: 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.

➡ PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
404 116 900	Needle Jet (159) O-8	1
404 124 100	Main Jet 110	1
404 124 000	Main Jet 115	1
404 124 800	Main Jet 125	1
404 124 900	Main Jet 130	1
404 130 400	Main Jet 135	1
417 114 400	Weight	3

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	1
Jet needle	6DP9	←	←	←	←	←	1
Needle position	3	←	←	2	←	←	—
Slide cut-away	2.5	←	←	←	←	←	1
Pilot jet	40	←	←	←	←	←	1
Mixture screw	1.25	←	←	1.50	←	←	—
Valve seat	1.5	←	←	←	←	←	—
Needle jet	P-0 (159)	←	←	O-8 (159)	←	←	1
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.

FORMULA DELUXE 700 (GS) / 700 (GSE)

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/Blue 414 689 400	←	←	←	←	←
Ramp	417 222 372	←	←	←	←	←
Calibration Screw Position	3	4	5	3	4	5
Pin	417 004 308 (Solid)	←	←	417 004 309 (Hollow)	←	←
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	2400 m 8000 ft	3000 m 10000 ft
Clutching						
Spring	White 504 152 070	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	8.9 19.5	—	—	—	—
Cam angle	° (degrees)	50° 417 126 343	←	←	←	←

Additional information: At 1800 m (6000 ft) unscrew red RAVE screw to be flush with RAVE cap.

PART TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 004 309	Pin (Hollow)	3

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	520	←	←	←	←	←	PTO MAG
Jet needle	9ZLY3-58	←	←	←	←	←	2
Needle position	N.A.	←	←	←	←	←	—
Slide cut-away	2.0	←	←	←	←	←	2
Pilot jet	17.5	←	←	←	←	←	2
Mixture screw	1.5	←	←	←	←	←	—
Valve seat	1.5	←	←	←	←	←	—
Needle jet	P-0	←	←	←	←	←	2
Float level	mm	N.A.	—	—	—	—	—
Idle	RPM ± 200	1500	←	←	←	←	—
Idle throttle valve position	mm	1.5	1.6	1.7	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	520	←	←	←	←	←	PTO MAG
- 30°C - 20°F							PTO MAG
- 20°C - 4°F							PTO MAG
- 10°C 14°F							PTO MAG
0°C 32°F							PTO MAG
10°C 50°F							PTO MAG
20°C 70°F							PTO MAG

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

NOTE: Shaded columns give factory settings.

FORMULA DELUXE 600 (GSE)

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		417 005 281	←	←	417 005 291X	←	←
Calibration Screw Position		3	4	5	3	4	5
Pin		417 004 308 (Solid)	←	←	417 004 309 (Hollow)	←	←
Engagement RPM ± 100		3800	←	←	4000	←	←
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		Beige 414 558 900	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	←	←	←
Cam angle	° (degrees)	50° 417 126 343	←	←	←	←	←

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 004 309	Pin (Hollow)	3
417 005 291X	Ramp	3

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		500	←	←	←	←	←	PTO MAG
Jet needle		9HFY2-53	←	←	←	←	←	2
Needle position		N.A.	←	←	←	←	←	—
Slide cut-away		2.0	←	←	←	←	←	2
Pilot jet		20.0	←	←	←	←	←	2
Mixture screw		1.0	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	—
Needle jet		P-0	←	←	←	←	←	2
Float level	mm	N.A.	—	—	—	—	—	—
Idle	RPM ± 200	1600	←	←	←	←	←	—
Idle throttle valve position	mm	1.8	1.9	2.0	2.1	2.2	2.3	—

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		500	←	←	←	←	←	PTO MAG
- 30°C - 20°F								PTO MAG
- 20°C - 4°F								PTO MAG
- 10°C 14°F								PTO MAG
0°C 32°F								PTO MAG
10°C 50°F								PTO MAG
20°C 70°F								PTO MAG

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

NOTE: Shaded columns give factory settings.

FORMULA DELUXE 600 (STANDARD)

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		417 005 281	←	←	417 005 291X	←	←
Calibration Screw Position		3	4	5	3	4	5
Pin		417 004 308 (Solid)	←	←	417 004 309 (Hollow)	←	←
Engagement RPM ± 100		3800	←	←	4000	←	←
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		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 guide-lines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 004 309	Pin (Hollow)	3
417 005 291X	Ramp	3
404 161 975	Jet Needle 9HFY03	2
404 101 200	Main Jet 300	2
404 104 900	Main Jet 340	2
404 106 400	Main Jet 390	2
404 107 900	Main Jet 420	2
404 106 600	Main Jet 460	2

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		500	460	420	390	340	300	PTO MAG
Jet needle		9HFY2-53	←	←	9HFY03	←	←	2
Needle position		N.A.	←	←	←	←	←	—
Slide cut-away		2.0	←	←	←	←	←	2
Pilot jet		20.0	←	←	←	←	←	2
Mixture screw		1.0	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	—
Needle jet		P-0	←	←	←	←	←	2
Float level	mm	N.A.	—	—	—	—	—	—
Idle	RPM ± 200	1600	←	←	←	←	←	—
Idle throttle valve position	mm	1.8	1.9	2.0	2.1	2.2	2.3	—

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		540	500	460	410	370	330	PTO MAG
- 30°C - 20°F		520	480	440	400	360	320	PTO MAG
- 20°C - 4°F		500	460	420	380	340	300	PTO MAG
- 10°C 14°F		480	440	400	370	330	290	PTO MAG
0°C 32°F		470	430	390	360	320	280	PTO MAG
10°C 50°F		450	410	380	340	310	270	PTO MAG
20°C 70°F		430	400	360	330	300	260	PTO MAG

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

NOTE: Shaded columns give factory settings.

FORMULA DELUXE 500 (STANDARD)

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	←	Purple/Green 415 015 400	←	←	←
Ramp		417 005 281	←	417 005 292X	←	←	←
Calibration Screw Position		3	4	2	2	3	3
Pin		417 004 308 (Solid)	←	417 004 309 (Hollow)	←	←	←
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	2400 m 8000 ft	3000 m 10000 ft
Clutching							
Spring		Beige 414 558 900	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.0	←	←	←	←	←
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.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 004 309	Pin (Hollow)	3
415 015 400	Spring (Purple/Green)	1
417 005 292X	Ramp	3
404 156 900	Needle Jet P-7 (480)	2
404 119 100	Main Jet 210	2
404 111 200	Main Jet 220	2
404 118 900	Main Jet 230	2
404 100 300	Main Jet 250	2
404 100 400	Main Jet 270	2

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		6DEY10	←	←	←	←	←	2
Needle position		4	←	←	←	←	←	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		40	←	←	←	←	←	2
Mixture screw		1.25	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	—
Needle jet		P-8 (480)	←	←	P-7 (480)	←	←	2
Float level	mm	2.29	←	←	←	←	←	—
Idle	RPM ± 200	1700	←	←	←	←	←	—
Idle throttle valve position	mm	1.4	1.5	1.6	1.8	2.0	2.1	—

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 DELUXE 500 F (FAN)

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 291X	←	←	417 005 292X	←	←
Calibration Screw Position		3	4	5	3	4	5
Pin		417 004 309 (Hollow)	←	←	←	←	←
Engagement RPM ± 100		3300	←	←	←	←	←
Maximum RPM ± 100		7000	←	←	←	←	←

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		Yellow 414 092 800	←	←	←	←	←
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.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 005 292X	Ramp	3
404 109 400	Pilot Jet 45	2
404 123 900	Main Jet 120	2
404 124 900	Main Jet 130	2
404 126 600	Main Jet 140	2
404 120 900	Main Jet 150	2
404 118 200	Main Jet 160	2
404 123 800	Main Jet 170	2

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		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
Mixture screw		1.875	←	←	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.

FORMULA DELUXE 380 F (FAN)

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 3x4	Qty 3x3	Qty 3x2
Capsule (Bombardier Lite)		Qty 3 x 1 417 114 500	←	←	←	←	←
Engagement RPM ± 100		3500	←	←	←	←	←
Maximum RPM ± 100		6900	←	←	←	←	←

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		Yellow 417 092 800	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	0.0 Position 3	←	←	←	←	←
Cam angle	° (degrees)	4° - 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		140	135	130	125	115	110	1
Jet needle		6DP9	←	←	←	←	←	1
Needle position		3	←	←	2	←	←	—
Slide cut-away		2.5	←	←	←	←	←	—
Pilot jet		40	←	←	←	←	←	1
Mixture screw		1.25	←	←	1.50	←	←	—
Valve seat		1.5	←	←	←	←	←	—
Needle jet		P-0 (159)	←	←	O-8 (159)	←	←	1
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.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 114 400	Weight	3 x 5
404 116 900	Needle Jet (159) O-8	1
404 124 100	Main Jet 110	2
404 124 000	Main Jet 115	2
404 124 800	Main Jet 125	2
404 124 900	Main Jet 130	2
404 130 400	Main Jet 135	2

NOTE: Shaded columns give factory settings.

GRAND TOURING 800 (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		417 222 372	←	←	417 222 381	←	←
Calibration Screw Position		3	3	4	3	4	5
Pin		417 004 308 (Solid)	←	←	417 004 309 (Hollow)	←	←
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	2400 m 8000 ft	3000 m 10000 ft
Clutching							
Spring		Violet 414 978 300	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	0.0	—	—	—	—	—
Cam angle	° (degrees)	47° - 44° 417 126 385	←	←	←	←	←

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 004 309	Pin (Hollow)	3
417 222 381	Ramp	3

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		450 470 470	←	←	←	←	←	PTO CTR MAG
Jet needle		8BCY1/42	←	←	←	←	←	3
Needle position		4	←	←	←	←	←	—
Slide cut-away		2.0	←	←	←	←	←	3
Pilot jet		15	←	←	←	←	←	3
Mixture screw		1.0	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	—
Needle jet		02 (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	450 470 470	←	←	←	←	←	PTO CTR MAG
- 30°C - 20°F							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.

GRAND TOURING 700 (GS)

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/Blue 414 689 400	←	←	←	←	←
Ramp	417 222 372	←	←	←	←	←
Calibration Screw Position	3	4	5	3	4	5
Pin	417 004 308 (Solid)	←	←	417 004 309 (Hollow)	←	←
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	2400 m 8000 ft	3000 m 10000 ft
Clutching						
Spring	White 504 152 070	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	8.9 19.5	—	—	—	—
Cam angle	° (degrees)	50° 417 126 343	←	←	←	←

Additional information: At 1800 m (6000 ft), unscrew red RAVE screw to be flush with RAVE cap.

PART TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 004 309	Pin (Hollow)	3

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	520	←	←	←	←	←	PTO MAG
Jet needle	9ZLY3-58	←	←	←	←	←	2
Needle position	N.A.	←	←	←	←	←	—
Slide cut-away	2.0	←	←	←	←	←	2
Pilot jet	17.5	←	←	←	←	←	2
Mixture screw	1.5	←	←	←	←	←	—
Valve seat	1.5	←	←	←	←	←	—
Needle jet	P-0	←	←	←	←	←	2
Float level	mm	N.A.	—	—	—	—	—
Idle	RPM ± 200	1500	←	←	←	←	—
Idle throttle valve position	mm	1.5	1.6	1.7	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	520	←	←	←	←	←	PTO MAG
- 30°C - 20°F							PTO MAG
- 20°C - 4°F							PTO MAG
- 10°C 14°F							PTO MAG
0°C 32°F							PTO MAG
10°C 50°F							PTO MAG
20°C 70°F							PTO MAG

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

NOTE: Shaded columns give factory settings.

GRAND TOURING 600 (STANDARD)

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	←	←	417 005 291X	←	←
Calibration Screw Position		3	4	5	3	4	5
Pin		417 004 308 (Solid)	←	←	417 004 309 (Hollow)	←	←
Engagement RPM ± 100		3600	←	←	3900	←	←
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		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 guide-lines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 004 309	Pin (Hollow)	3
417 005 291X	Ramp	3
404 161 975	Jet Needle 9HFY03	2
404 101 200	Main Jet 300	2
404 104 900	Main Jet 340	2
404 106 300	Main Jet 380	2
404 107 900	Main Jet 420	2
404 106 600	Main Jet 460	2

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		500	460	420	380	340	300	PTO MAG
Jet needle		9HFY2-53	←	←	9HFY03	←	←	2
Needle position		N.A.	←	←	←	←	←	—
Slide cut-away		2.0	←	←	←	←	←	2
Pilot jet		20.0	←	←	←	←	←	2
Mixture screw		1.0	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	—
Needle jet		P-0	←	←	←	←	←	2
Float level	mm	N.A.	—	—	—	—	—	—
Idle	RPM ± 200	1600	←	←	←	←	←	—
Idle throttle valve position	mm	1.8	1.9	2.0	2.1	2.2	2.3	—

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		540	500	460	410	370	330	PTO MAG
- 30°C - 20°F		520	480	440	400	360	320	PTO MAG
- 20°C - 4°F		500	460	420	380	340	300	PTO MAG
- 10°C 14°F		480	440	400	370	330	290	PTO MAG
0°C 32°F		470	430	390	360	320	280	PTO MAG
10°C 50°F		450	410	380	340	310	270	PTO MAG
20°C 70°F		430	400	360	330	300	260	PTO MAG

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

GRAND TOURING 500 (STANDARD)

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 292X	←	←	←	←	←
Calibration Screw Position		3	4	5	3	4	5
Pin		417 004 308 (Solid)	←	←	417 004 309 (Hollow)	←	←
Engagement RPM ± 100		3500	←	←	3900	←	←
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		Beige 414 558 900	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	7.0 15.4	←	←	8.0 17.5	←	←
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.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 004 309	Pin (Hollow)	3
404 156 900	Needle Jet P-7 (480)	2
404 119 100	Main Jet 210	2
404 111 200	Main Jet 220	2
404 118 900	Main Jet 230	2
404 100 300	Main Jet 250	2
404 100 400	Main Jet 270	2

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		6DEY10	←	←	←	←	←	2
Needle position		4	←	←	←	←	←	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		40	←	←	←	←	←	2
Mixture screw		1.25	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	—
Needle jet		P-8 (480)	←	←	P-7 (480)	←	←	2
Float level	mm	22.9	←	←	←	←	←	—
Idle	RPM ± 200	1700	←	←	←	←	←	—
Idle throttle valve position	mm	1.4	1.5	1.6	1.8	2.0	2.1	—

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.

TOURING 500 F (FAN) / 500 F (CARGO)

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 292X	←	←	←	←	←
Calibration Screw Position	3	4	2	3	4	5
Pin	417 004 309 (Hollow)	←	←	←	←	←
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	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.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
414 742 100	Spring (Yellow/Green)	1
404 109 400	Pilot Jet (45)	2
404 123 900	Main Jet 120	2
404 124 900	Main Jet 130	2
404 126 600	Main Jet 140	2
404 120 900	Main Jet 150	2
404 118 200	Main Jet 160	2
404 123 800	Main Jet 170	2

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
Mixture screw		1.875	←	←	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.

TOURING 380 F (FAN) / 380 F (CARGO)

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/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 3x4	Qty 3x3	Qty 3x2
Capsule (Bombardier Lite)	Qty 3 x 1 417 114 500	←	←	←	←	←
Engagement RPM ± 100	2500	←	3100	←	←	←
Maximum RPM ± 100	6900	←	←	←	←	←

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	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.

➡ PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 114 400	Weight	3
404 116 900	Needle Jet 0-8 (159)	1
404 124 100	Main Jet 110	1
404 124 000	Main Jet 115	1
404 124 800	Main Jet 125	1
404 124 900	Main Jet 130	1
404 124 400	Main Jet 135	1

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	1
Jet needle	6DP9	←	←	←	←	←	1
Needle position	3	←	←	2	←	←	—
Slide cut-away	2.5	←	←	←	←	←	1
Pilot jet	40	←	←	←	←	←	1
Mixture Screw	1.25	←	←	1.5	←	←	—
Valve seat	1.5	←	←	←	←	←	—
Needle jet	P-0 (159)	←	←	0-8 (159)	←	←	1
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.

SKANDIC 600 (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		Red/Red 414 689 800	←	←	Yellow/Red 414 993 000	←	←
Ramp		417 005 290	←	←	417 005 291	←	←
Calibration Screw Position		3	4	5	2	3	4
Pin		417 004 308 (Solid)	←	←	417 004 309 (Hollow)	←	←
Engagement RPM ± 100		3600	←	←	←	←	←
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 (417 119 100)	←	←	←	←	←
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.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 004 309	Pin (Hollow)	3
417 005 291	Ramp	3
414 993 000	Spring (Yellow/Red)	1
404 112 300	Main Jet 200	2
404 161 979	Main Jet 215	2
404 111 200	Main Jet 220	2
404 100 200	Main Jet 240	2
404 100 600	Main Jet 260	2
404 100 400	Main Jet 270	2
404 101 100	Main Jet 290	2
404 107 800	Main Jet 310	2

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		330 310	310 290	290 270	260 240	240 220	215 200	PTO MAG
Jet needle		6FL14	←	←	←	←	←	2
Needle position		4	←	←	3	←	←	—
Slide cut-away		2.5	←	←	←	←	←	2
Pilot jet		40	←	←	←	←	←	2
Mixture screw		1.5	←	←	1.0	←	←	—
Valve seat		1.5	←	←	←	←	←	—
Needle jet		Q-4 (480)	←	←	←	←	←	2
Float level	mm	18.1	←	←	←	←	←	—
Idle	RPM ± 200	1500	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	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		350 330	330 310	300 290	280 260	250 240	230 215	PTO MAG
- 30°C - 20°F		340 320	320 300	290 280	270 250	250 230	220 210	PTO MAG
- 20°C - 4°F		330 310	310 290	290 270	260 240	240 225	215 200	PTO MAG
- 10°C 14°F		320 300	300 280	280 260	250 230	230 215	210 195	PTO MAG
0°C 32°F		310 290	290 270	270 250	240 230	220 210	200 190	PTO MAG
10°C 50°F		300 280	280 260	260 240	230 220	210 200	190 180	PTO MAG
20°C 70°F		290 270	270 250	250 230	220 210	205 195	185 175	PTO MAG

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

SKANDIC 500 F (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 (Hollow)	←	←	←	←	←
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	2400 m 8000 ft	3000 m 10000 ft
Clutching						
Spring	Blue ACS 3-188 (417 119 100)	←	←	←	←	←
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.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
414 689 500	Spring (Blue/Yellow)	1
404 130 400	Main Jet 135	2
404 130 500	Main Jet 145	2
404 128 700	Main Jet 155	2
404 119 300	Main Jet 165	2
404 119 200	Main Jet 175	2

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
Mixture screw	1.25	←	←	1.75	←	←	—
Valve seat	1.5	←	←	←	←	←	—
Needle jet	P-1 (159)	←	←	←	←	←	2
Float level	mm	23.9	←	←	←	←	—
Idle	RPM ± 200	1650	←	←	←	←	—
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.

SKANDIC 500 F (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 (Hollow)	←	←	←	←	←
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	2400 m 8000 ft	3000 m 10000 ft
Clutching							
Spring		Blue ACS 3-188 (417 119 100)	←	←	←	←	←
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.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
414 817 700	Spring (Blue/Green)	1
404 130 400	Main Jet 135	2
404 130 500	Main Jet 145	2
404 128 700	Main Jet 155	2
404 119 300	Main Jet 165	2
404 119 200	Main Jet 175	2

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
Mixture screw		1.25	←	←	1.75	←	←	—
Valve seat		1.5	←	←	←	←	←	—
Needle jet		P-1	←	←	←	←	←	2
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM ± 200	1650	←	←	←	←	←	—
Idle throttle valve position	mm	1.5	←	1.6	1.7	1.8	1.9	—

MAIN JET CHART

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.

SKANDIC 440 F (LT)

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	Silver M140032	←	←	Purple 207 758A	←	←
Ramp	M140030	←	←	←	←	←
Calibration Screw Position	N.A.	—	—	—	—	—
Pin	N.A.	—	—	—	—	—
Engagement RPM ± 100	3200	←	←	←	←	←
Maximum RPM ± 100	6900	←	←	←	←	←

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	Yellow 415 092 800	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	0.0	←	←	←	←
Cam angle	° (degrees)	Position 3	←	←	←	←
		40°	←	←	←	←

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.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
M207758A	Spring (Purple)	1
404 109 000	Needle Jet (159) O-4	2
404 123 900	Main Jet 120	2
404 130 400	Main Jet 135	2
404 120 900	Main Jet 150	2
404 119 300	Main Jet 165	2
404 112 200	Main Jet 180	2

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	195	180	165	150	135	120	PTO MAG
Jet needle	6DGH10	←	←	←	←	←	2
Needle position	4	←	3	←	←	←	—
Slide cut-away	3.0	←	←	←	←	←	2
Pilot jet	45	←	←	←	←	←	2
Mixture screw	1.5	←	2.0	←	←	←	—
Valve seat	1.5	←	←	←	←	←	—
Needle jet	(159) O-6	←	←	(159) O-4	←	←	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	210	195	175	155	140	125	1
- 30°C - 20°F	205	190	175	155	140	125	1
- 20°C - 4°F	195	180	165	150	135	120	1
- 10°C 14°F	190	175	160	145	130	115	1
0°C 32°F	185	170	155	140	125	110	1
10°C 50°F	180	165	150	135	125	110	1
20°C 70°F	170	155	140	130	115	100	1

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

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	2400 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 guide-lines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 118 500	Spring (Yellow/Green on Violet)	1
404 124 900	Main Jet 130	1
404 126 600	Main Jet 140	1
404 120 900	Main Jet 150	1
404 119 200	Main Jet 175	1
404 119 500	Main Jet 185	1

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
Mixture screw		1.00	←	←	0.75	←	←	—
Valve seat		1.5	←	←	←	←	←	—
Needle jet		0-8 (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.