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No. **2002-5**

Date: October 5, 2001

SUBJECT: High Altitude/Sea Level Specifications

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
2002	All	All	All

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

For 2001 models, refer to *Service Bulletins 2001-1 Rev. 1 and 2001-2 Rev. 1*.

For 2000 models, refer to *Service Bulletins 2000-1 Rev. 1 and 2000-2*.

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 for both high altitude operation as well as sea level operation.

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	←	←	←	←	←	←	←	←	←	←
Ramp	417 005 295	←	←	←	←	←	←	←	←	←	←
Calibration screw position	2	3	4	3	4	5					
Pin	417 004 308 (Solid)	←	←	←	←	←	←	←	←	←	←
Engagement RPM ± 100	4200	←	←	←	←	←	←	←	←	←	←
Maximum RPM ± 100	8300	←	←	←	←	←	←	←	←	←	←

DRIVEN PULLEY (HPV)

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	N.A.	—	—	—	—	—	—	—	—	—
Cam angle	° (degrees)	47° - 44° (anodized) 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	O-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	1.6	1.6	1.6	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												PTO CTR MAG
- 30°C - 20°F												PTO CTR MAG
- 20°C - 4°F	290	←	←	←	←	←	←	←	←	←	←	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 (Sport)

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	2	3	4	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 15.4	←	←	←	←	←	←			
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

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	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	O-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	1.6	1.6	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.

MX Z 800 (Trail/Sport/Sport 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				
Clutching												
Spring		Violet/Yellow 415 015 300	←	←	←	←	←	←	←	←	←	←
Ramp		417 222 474	←	←	←	←	←	←	←	←	←	←
Calibration screw position		3	4	5	3	4	5					
Pin		417 004 308 (Solid)	←	←	←	←	←	←	←	←	←	←
Engagement RPM ± 100		3800	←	←	←	←	←	←	←	←	←	←
Maximum RPM ± 100		7900	←	←	←	←	←	←	←	←	←	←

DRIVEN PULLEY (HPV)

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

Additional information: At and above 2400 m (8000 ft) or in deep snow, use 24 tooth sprocket, 74 link chain, 13 wide.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
414 754 200	Spring (Pink/Violet)	1
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
404 161 977	Jet needle (9ZLY5-58)	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
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft					
Calibration													
Main jet		520N	470	440	420	390	360	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		N.A.	←	←	←	←	←	←	←	←	←	←	2
Float level	mm	N.A.	—	—	—	—	—	—	—	—	—	—	—
Idle	RPM ± 200	1500	←	←	←	←	←	←	←	←	←	←	—
Idle throttle valve position	mm	1.7	1.8	1.9	2.0	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
			Sea Level	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		530N	500	470	450	420	390	PTO MAG					
- 30°C - 20°F		530N	480	450	430	400	370	PTO MAG					
- 20°C - 4°F		520N	470	440	420	390	360	PTO MAG					
- 10°C 14°F		510N	460	430	410	380	350	PTO MAG					
0°C 32°F		500	450	420	400	370	340	PTO MAG					
10°C 50°F		490	440	410	390	360	330	PTO MAG					
20°C 70°F		480	430	400	380	350	320	PTO MAG					

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

NOTE: Shaded columns give factory settings.

MX Z 800 (X/X R/Adrenaline 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				
Clutching												
Spring		Violet/Yellow 415 015 300	←	←	Pink/Violet 414 754 200	←	←					
Ramp		417 222 474	←	←	←	←	←	←	←	←	←	←
Calibration screw position		3	4	5	3	4	5					
Pin		417 004 308 (Solid)	←	←	←	←	←	←	←	←	←	←
Engagement RPM ± 100		3800	←	←	4200	←	←	←	←	←	←	←
Maximum RPM ± 100		7900	←	←	←	←	←	←	←	←	←	←

DRIVEN PULLEY (HPV)

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				
Clutching												
Spring		Violet 414 978 300	←	←	←	←	←	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	N.A.	←	←	←	←	←	←	←	←	←	←
Cam angle	° (degrees)	47° - 44° (anodized) 417 126 385	←	←	44° (anodized) 417 126 445	←	←	←	←	←	←	←

Additional information: At and above 2400 m (8000 ft) or in deep snow, use 24 tooth sprocket, 74 link chain, 13 wide.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
414 754 200	Spring (Pink/Violet)	1
417 126 445	Cam 44° (anodized)	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
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft					
Calibration													
Main jet		520N	←	←	←	←	←	←	←	←	←	←	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		N.A.	←	←	←	←	←	←	←	←	←	←	2
Float level	mm	N.A.	—	—	—	—	—	—	—	—	—	—	—
Idle	RPM ± 200	1500	←	←	←	←	←	←	←	←	←	←	—
Idle throttle valve position	mm	1.7	1.8	1.9	2.0	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
			Sea Level	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		←	←	←	←	←	←	←	←	←	←	←	PTO MAG
- 30°C - 20°F		←	←	←	←	←	←	←	←	←	←	←	PTO MAG
- 2°C - 4°F		520N	←	←	←	←	←	←	←	←	←	←	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.

Summit 800 (X/Sport/Sport R/HM/HM X/HM R/HM X R)

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	←	Blue/Orange 414 639 000	←	←	←	←
	Ramp	←	417 222 381	←	←	←	←
	Calibration screw position	3	1	3	5	4	6
	Pin	417 004 308 (Solid)	417 222 477 (Hollow) with 1 set screw	←	←	417 222 477 (Hollow) no set screw	←
	Engagement RPM ± 100	3800	4000	←	←	4200	←
	Maximum RPM ± 100	7900	←	←	←	←	←

DRIVEN PULLEY (HPV)

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	←	Violet 414 978 300	←	←	←	←	
	Spring tension	Kg ± 0.7 lb ± 1.5	←	N.A.	←	←	←	←
	Cam angle	° (degrees)	←	44° (anodized) 417 126 445	←	←	←	←

PART TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 004 308	Pin (Solid)	3

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	←	520N	←	←	←	←	PTO MAG	
	Jet needle	←	9ZLY2-58	←	←	←	←	2	
	Needle position	←	N.A.	←	←	←	←	—	
	Slide cut-away	←	2.0	←	←	←	←	2	
	Pilot jet	←	17.5	←	←	←	←	2	
	Air screw	←	1.5	←	←	←	←	—	
	Valve seat	←	1.5	←	←	←	←	—	
	Needle jet	←	N.A.	←	←	←	←	2	
	Float level	mm	—	N.A.	—	—	←	—	—
	Idle	RPM ± 200	←	← 1500	←	←	←	←	—
	Idle throttle valve position	mm	1.7	1.8	1.9	2.0	2.2	←	—

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							PTO MAG
	- 30°C - 20°F							PTO MAG
	- 20°C - 4°F	←	520N	←	←	←	←	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 (Adrenaline/X 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	←	←	←	←	←
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 (HPV)

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	N.A.	←	←	←	←	←
Cam angle	° (degrees)	50° - 47° 417 126 580	←	←	←	←	←

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		510N	←	←	←	←	←	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								PTO MAG
- 30°C - 20°F								PTO MAG
- 20°C - 4°F		510N	←	←	←	←	←	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 (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		Beige 414 558 900	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	8.9 19.5	←	←	←	←	←
Cam angle	° (degrees)	48° - 44° 417 126 585	←	←	←	←	←

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		510N	←	←	←	←	←	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								PTO MAG
- 30°C - 20°F								PTO MAG
- 20°C - 4°F		510N	←	←	←	←	←	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 (Renegade 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				
Clutching												
Spring		Violet/Yellow 414 015 300	←	←	←	←	←	←	←	←	←	←
Ramp		417 222 372	←	←	←	←	←	←	←	←	←	←
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 (HPV)

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				
Clutching												
Spring		Violet 414 978 300	←	←	←	←	←	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	N.A.	←	←	←	←	←	←	←	←	←	←
Cam angle	° (degrees)	47° 417 126 580	←	←	←	←	←	←	←	←	←	←

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
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft					
Calibration													
Main jet		510N	←	←	←	←	←	←	←	←	←	←	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
			Sea Level	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													PTO MAG
- 30°C - 20°F													PTO MAG
- 20°C - 4°F		510N	←	←	←	←	←	←	←	←	←	←	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 (Sport/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	
			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		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				
Clutching	Spring	Beige 414 558 900	←	←	←	←	←	←	←	←	←	←
	Spring tension	Kg ± 0.7 lb ± 1.5	8.9 19.5	←	←	←	←	←	←	←	←	←
	Cam angle	° (degrees)	48° - 44° 417 126 585	←	←	←	←	←	←	←	←	←

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

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
404 161 976	Jet needle (9ZLY4-58)	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
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft					
Calibration	Main jet	510N	480	450	410	380	340	PTO MAG					
	Jet needle	9ZLY3-58	←	←	9ZLY4-58	←	←	←	←	←	←	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
			Sea Level	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	520N	510N	480	440	400	370	PTO MAG					
	- 30°C - 20°F	510N	500	460	430	390	350	PTO MAG					
	- 20°C - 4°F	510N	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 700 (Sport 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				
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 (HPV)

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				
Clutching												
Spring		Violet 414 978 300	←	←	←	←	←	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	N.A.	←	←	←	←	←	←	←	←	←	←
Cam angle	° (degrees)	50° - 47° 417 126 580	←	←	←	←	←	←	←	←	←	←

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

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
404 161 976	Jet needle (9ZLY4-58)	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
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft					
Calibration													
Main jet		510N	480	450	410	380	340	PTO MAG					
Jet needle		9ZLY3-58	←	←	9ZLY4-58	←	←	←	←	←	←	←	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
			Sea Level	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		520N	510N	480	440	400	370	PTO MAG					
- 30°C - 20°F		510N	500	460	430	390	350	PTO MAG					
- 20°C - 4°F		510N	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.

NOTE: Shaded columns give factory settings.

Summit 700 (Sport)

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		←	Violet/Yellow 415 015 300	←	←	←	←
Ramp		←	417 222 372	←	←	←	←
Calibration screw position		3	1	3	5	4	6
Pin		417 004 308 (Solid)	417 222 477 (Hollow) with 1 set screw	←	←	417 222 477 (Hollow) no set screw	←
Engagement RPM ± 100		←	4100	←	←	←	←
Maximum RPM ± 100		←	8000	←	←	←	←

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		←	Beige 414 558 900	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	←	8.0 17.6	←	←	←	←
Cam angle	° (degrees)	←	47° 417 126 580	←	←	←	←

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

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 004 308	Pin (Solid)	3

NOTE: Shaded columns give factory settings.

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		←	510N	←	←	←	←	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	←	1.8	1.9	—

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								PTO MAG
- 30°C - 20°F								PTO MAG
- 20°C - 4°F		←	510N	←	←	←	←	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.

Summit 700 (Sport R), Grand Touring 700 (Olympic)

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		←	Violet/Yellow 415 015 300	←	←	←	←
Ramp		←	417 222 381	←	←	←	←
Calibration screw position		3	1	3	5	4	6
Pin		417 004 308 (Solid)	417 222 477 (Hollow) with 1 set screw	←	←	417 222 477 (Hollow) no set screw	←
Engagement RPM ± 100		←	4100	←	←	←	←
Maximum RPM ± 100		←	8000	←	←	←	←

DRIVEN PULLEY (HPV)

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		←	Violet 414 978 300	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	←	N.A.	←	←	←	←
Cam angle	° (degrees)	←	44° 417 126 445	←	←	←	←

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

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 004 308	Pin (Solid)	3

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		←	510N	←	←	←	←	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	←	1.8	1.9	—

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								PTO MAG
- 30°C - 20°F								PTO MAG
- 20°C - 4°F		←	510N	←	←	←	←	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 (Adrenaline/X 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	←	←	Green/Blue 414 768 200	←	←
	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	4100	←	←	4300	←	←
	Maximum RPM ± 100	8000	←	←	←	←	←

DRIVEN PULLEY (HPV)

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	N.A.	←	←	←	←
	Cam angle	° (degrees)	47° (anodized) 417 126 577	←	←	←	←

Additional information: At and above 2400 m (8000 ft) or in deep snow, use 22 tooth sprocket (P/N 504 083 500) chain to get chaincase ratio of 22/43.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
414 768 200	Spring (Green/Blue)	1
417 004 309	Pin (Hollow)	3

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	←	←	←	←	←	PTO MAG	
	Jet needle	9HGY1-58	←	←	←	←	←	2	
	Needle position	N.A.	←	←	←	←	←	—	
	Slide cut-away	2.0	←	←	←	←	←	2	
	Pilot jet	20	←	←	←	←	←	2	
	Mixture screw	1.5	←	←	←	←	←	—	
	Valve seat	1.5	←	←	←	←	←	—	
	Needle jet	N.A.	←	←	←	←	←	2	
	Float level	mm	N.A.	—	—	—	—	—	
	Idle	RPM ± 200	1600	←	←	←	←	←	—
	Idle throttle valve position	mm	1.8	1.9	←	2.0	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							PTO MAG
	- 30°C - 20°F							PTO MAG
	- 20°C - 4°F	500	←	←	←	←	←	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.

MX Z 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	
			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	←	←	Green/Blue 414 768 200	←	←					
Ramp		417 222 372	←	←	417 005 294	←	←					
Calibration screw position		4	5	6	3	4	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	
			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	7.65 17.0	←	←	←	←	←	←	←	←	←	←
Cam angle	° (degrees)	47° 417 126 337	←	←	←	←	←	←	←	←	←	←

Additional information: At and above 2400 m (8000 ft) or in deep snow, use 22 tooth sprocket (P/N 504 083 500) to get chaincase ratio of 22/43.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 004 309	Pin (Hollow)	3
414 768 200	Spring (Green/Blue)	1
417 005 294	Ramp	3

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
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft					
Calibration													
Main jet		500	←	←	←	←	←	←	←	←	←	←	PTO MAG
Jet needle		9HGY1-58	←	←	←	←	←	←	←	←	←	←	2
Needle position		N.A.	←	←	←	←	←	←	←	←	←	←	—
Slide cut-away		2.0	←	←	←	←	←	←	←	←	←	←	2
Pilot jet		20	←	←	←	←	←	←	←	←	←	←	2
Mixture screw		1.5	←	←	←	←	←	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	←	←	←	←	←	—
Needle jet		N.A.	←	←	←	←	←	←	←	←	←	←	2
Float level	mm	N.A.	—	—	—	—	—	—	—	—	—	—	—
Idle	RPM ± 200	1600	←	←	←	←	←	←	←	←	←	←	—
Idle throttle valve position	mm	1.8	1.9	←	2.0	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
			Sea Level	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													PTO MAG
- 30°C - 20°F													PTO MAG
- 20°C - 4°F		500	←	←	←	←	←	←	←	←	←	←	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

MX Z 600 (Renegade R), Summit 600 (R Europe)

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				
Clutching	Spring	Violet/Violet 414 817 900	←	←	←	←	←	←	←	←	←	←
	Ramp	417 222 372	←	←	←	←	←	←	←	←	←	←
	Calibration screw position	3	4	5	3	4	5					
	Pin	417 004 308 (Solid)	←	←	←	←	←	←	←	←	←	←
	Engagement RPM ± 100	4100	←	←	←	←	←	←	←	←	←	←
	Maximum RPM ± 100	8000	←	←	←	←	←	←	←	←	←	←

DRIVEN PULLEY (HPV)

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				
Clutching	Spring	Violet 414 978 300	←	←	←	←	←	←	←	←	←	←
	Spring tension	Kg ± 0.7 lb ± 1.5	N.A.	←	←	←	←	←	←	←	←	←
	Cam angle	° (degrees)	47° (anodized) 417 126 577	←	←	←	←	←	←	←	←	←

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 004 309	Pin (Hollow)	3
415 034 900	Spring (Violet/Blue)	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
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft					
Calibration	Main jet	500	←	←	←	←	←	←	←	←	←	←	PTO MAG
	Jet needle	9HGY1-58	←	←	←	←	←	←	←	←	←	←	2
	Needle position	N.A.	←	←	←	←	←	←	←	←	←	←	—
	Slide cut-away	2.0	←	←	←	←	←	←	←	←	←	←	2
	Pilot jet	20	←	←	←	←	←	←	←	←	←	←	2
	Mixture screw	1.5	←	←	←	←	←	←	←	←	←	←	—
	Valve seat	1.5	←	←	←	←	←	←	←	←	←	←	—
	Needle jet	N.A.	←	←	←	←	←	←	←	←	←	←	2
	Float level	mm	N.A.	—	—	—	—	—	—	—	—	—	—
	Idle	RPM ± 200	1600	←	←	←	←	←	←	←	←	←	—
	Idle throttle valve position	mm	1.8	1.9	←	2.0	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
			Sea Level	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												PTO MAG
	- 30°C - 20°F												PTO MAG
	- 20°C - 4°F	500	←	←	←	←	←	←	←	←	←	←	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 (Sport/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	
			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	←	←	Green/Blue 414 768 200	←	←					
Ramp		417 222 372	←	←	417 005 294	←	←					
Calibration screw position		4	5	6	3	4	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	
			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	7.65 17.0	←	←	←	←	←	←	←	←	←	←
Cam angle	° (degrees)	47° 417 126 337	←	←	←	←	←	←	←	←	←	←

Additional information: At and above 2400 m (8000 ft) or in deep snow, use 22 tooth sprocket (P/N 504 083 500) to get chaincase ratio of 22/43.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 004 309	Pin (Hollow)	3
414 768 200	Spring (Green/Blue)	1
417 005 294	Ramp	3
404 161 992	Jet needle (9HGY4-58)	2
404 106 100	Main jet 360	2
404 106 400	Main jet 390	2
404 101 000	Main jet 410	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
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft					
Calibration													
Main jet		500	470	440	410	390	360	PTO MAG					
Jet needle		9HGY1-58	←	←	9HGY4-58	←	←	←	←	←	←	←	2
Needle position		N.A.	←	←	2	←	←	←	←	←	←	←	—
Slide cut-away		2.0	←	←	←	←	←	←	←	←	←	←	2
Pilot jet		20	←	←	←	←	←	←	←	←	←	←	2
Mixture screw		1.5	←	←	2.0	←	←	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	←	←	←	←	←	—
Needle jet		N.A.	←	←	←	←	←	←	←	←	←	←	2
Float level	mm	N.A.	—	—	—	—	—	—	—	—	—	—	—
Idle	RPM ± 200	1600	←	←	←	←	←	←	←	←	←	←	—
Idle throttle valve position	mm	1.8	1.9	←	2.0	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
			Sea Level	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		520N	500	470	450	420	390	PTO MAG					
- 30°C - 20°F		510N	480	450	430	400	370	PTO MAG					
- 20°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 600 (Sport 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				
Clutching												
Spring		Green/Violet 414 762 800	←	←	Green/Blue 414 768 200	←	←					
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		4100	←	←	4300	←	←	←	←	←	←	←
Maximum RPM ± 100		8000	←	←	←	←	←	←	←	←	←	←

DRIVEN PULLEY (HPV)

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				
Clutching												
Spring		Violet 414 978 300	←	←	←	←	←	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	N.A.	←	←	←	←	←	←	←	←	←	←
Cam angle	° (degrees)	47° (anodized) 417 126 577	←	←	←	←	←	←	←	←	←	←

Additional information: At and above 2400 m (8000 ft) or in deep snow, use 22 tooth sprocket (P/N 504 083 500) to get chaincase ratio of 22/43.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 004 309	Pin (Hollow)	3
414 768 200	Spring (Green/Blue)	1
404 161 992	Jet needle (9HGY4-58)	2
404 106 100	Main jet 360	2
404 106 400	Main jet 390	2
404 101 000	Main jet 410	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
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft					
Calibration													
Main jet		500	470	440	410	390	360	PTO MAG					
Jet needle		9HGY1-58	←	←	9HGY4-58	←	←	←	←	←	←	←	2
Needle position		N.A.	←	←	2	←	←	←	←	←	←	←	—
Slide cut-away		2.0	←	←	←	←	←	←	←	←	←	←	2
Pilot jet		20	←	←	←	←	←	←	←	←	←	←	2
Mixture screw		1.5	←	←	2.0	←	←	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	←	←	←	←	←	—
Needle jet		N.A.	←	←	←	←	←	←	←	←	←	←	2
Float level	mm	N.A.	—	—	—	—	—	—	—	—	—	—	—
Idle	RPM ± 200	1600	←	←	←	←	←	←	←	←	←	←	—
Idle throttle valve position	mm	1.8	1.9	←	2.0	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
			Sea Level	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		520N	500	470	450	420	390	PTO MAG					
- 30°C - 20°F		510N	480	450	430	400	370	PTO MAG					
- 20°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.

Summit 600 (Sport)

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/Green 415 015 400	←	←	←	←
Ramp		←	417 222 381	←	←	←	←
Calibration screw position		3	1	3	5	4	6
Pin		417 004 308 (Solid)	417 222 477 (Hollow) with 1 set screw	←	←	417 222 477 (Hollow) no set screw	←
Engagement RPM ± 100		← 3800	4000	←	←	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	←	8.1 18.0	←	←	←	←
Cam angle	° (degrees)	←	44° 417 126 333	←	←	←	←

PART TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 004 308	Pin (Solid)	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		←	9HGY1-58	←	←	←	←	2
Needle position		←	N.A.	←	←	←	←	—
Slide cut-away		←	2.0	←	←	←	←	2
Pilot jet		←	20	←	←	←	←	2
Mixture screw		←	1.5	←	←	←	←	—
Valve seat		←	1.5	←	←	←	←	—
Needle jet		←	N.A.	←	←	←	←	2
Float level	mm	←	N.A.	←	←	←	←	—
Idle	RPM ± 200	←	1600	←	←	←	←	—
Idle throttle valve position	mm	1.8	1.9	←	2.0	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								PTO MAG
- 30°C - 20°F								PTO MAG
- 20°C - 4°F		←	500	←	←	←	←	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.

Summit 600 (Sport 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/Blue 415 034 900	←	←	←	←
Ramp		←	417 222 372	←	←	←	←
Calibration screw position		3	1	3	5	4	6
Pin		417 004 308 (Solid)	417 222 477 (Hollow) with 1 set screw	←	←	417 222 477 (Hollow) no set screw	←
Engagement RPM ± 100		3800	4000	←	←	4200	←
Maximum RPM ± 100		←	8000	←	←	←	←

DRIVEN PULLEY (HPV)

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	←	N.A.	←	←	←	←
Cam angle	° (degrees)	←	47° - 44° (anodized) 417 126 385	←	←	←	←

PART TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 004 308	Pin (Solid)	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		←	9HGY1-58	←	←	←	←	2
Needle position		←	N.A.	←	←	←	←	—
Slide cut-away		←	2.0	←	←	←	←	2
Pilot jet		←	20	←	←	←	←	2
Mixture screw		←	1.5	←	←	←	←	—
Valve seat		←	1.5	←	←	←	←	—
Needle jet		←	N.A.	←	←	←	←	2
Float level	mm	←	N.A.	←	←	←	←	—
Idle	RPM ± 200	←	1600	←	←	←	←	—
Idle throttle valve position	mm	1.8	1.9	←	2.0	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								PTO MAG
- 30°C - 20°F								PTO MAG
- 20°C - 4°F		←	500	←	←	←	←	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 500 (Sport/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 414 222 371	←	←	←	←	←
	Ramp	417 222 376	←	←	←	←	←
	Calibration screw position	4	5	6	3	4	5
	Pin	417 004 308 (Solid)	←	←	417 004 309 (Hollow)	←	←
	Engagement RPM ± 100	4400	←	←	4600	←	←
	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	7.9 17.5	←	←	←	←
	Cam angle	° (degrees)	42° 417 126 590	←	←	←	←

Additional information: At 1800 m (6000 ft) and higher, install RAVE valve spring (P/N 420 239 941).

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
404 108 600	Pilot jet 20	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
420 239 941	RAVE valve spring (0.8 mm x 52.5 mm)	2
404 161 992	Jet needle (9HGY4-58)	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	9HGY1-58	←	←	9HGY4-58	←	←	2	
	Needle position	N.A.	←	←	2	←	←	—	
	Slide cut-away	2.0	←	←	←	←	←	2	
	Pilot jet	17.5	←	←	20	←	←	2	
	Mixture screw	1.0	←	←	2.0	←	←	—	
	Valve seat	1.5	←	←	←	←	←	—	
	Needle jet	N.A.	←	←	←	←	←	2	
	Float level	mm	N.A.	←	←	←	←	←	—
	Idle	RPM ± 200	1600	←	←	←	←	←	—
	Idle throttle valve position	mm	1.8	1.9	←	2.0	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	520N	500	470	450	420	390	PTO MAG
	- 30°C - 20°F	510N	480	450	430	400	370	PTO MAG
	- 20°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 500 (Sport 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/Pink 414 756 900	←	←	←	Green/Violet 414 762 800	←	←
Ramp	417 222 376	←	←	417 005 296	←	←	
Calibration screw position	3	4	5	3	4	5	
Pin	417 004 308 (Solid)	←	←	417 004 309 (Hollow)	←	←	
Engagement RPM ± 100	4400	←	←	4700	←	←	
Maximum RPM ± 100	8000	←	←	←	←	←	

DRIVEN PULLEY (HPV)

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	N.A.	←	←	←	←	
Cam angle	° (degrees)	44° (anodized) 417 126 445	←	←	←	←	

Additional information: At 1800 m (6000 ft) and higher, install RAVE valve spring (P/N 420 239 941).

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
414 762 800	Spring (Green/Violet)	1
417 005 296	Ramp 296	3
404 108 600	Pilot jet 20	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
420 239 941	RAVE valve spring (0.8 mm x 52.5 mm)	2
404 161 992	Jet needle (9HGY4-58)	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	9HGY1-58	←	←	9HGY4-58	←	←	2	
Needle position	N.A.	←	←	2	←	←	—	
Slide cut-away	2.0	←	←	←	←	←	2	
Pilot jet	17.5	←	←	20	←	←	2	
Mixture screw	1.0	←	←	2.0	←	←	—	
Valve seat	1.5	←	←	←	←	←	—	
Needle jet	N.A.	←	←	←	←	←	2	
Float level	mm	N.A.	←	←	←	←	—	
Idle	RPM ± 200	1600	←	←	←	←	—	
Idle throttle valve position	mm	1.8	1.9	←	2.0	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	520N	500	470	450	420	390	PTO MAG	
- 30°C - 20°F	510N	480	450	430	400	370	PTO MAG	
- 20°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 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	
			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	←	←	Blue/Violet 414 817 800	←	←					
	Ramp	417 005 296	←	←	←	←	←	←	←	←	←	←
	Calibration screw position	3	4	5	3	4	5					
	Pin	417 004 309 (Hollow)	←	←	←	←	←	←	←	←	←	←
	Engagement RPM ± 100	3500	←	←	4000	←	←	←	←	←	←	←
	Maximum RPM ± 100	6700	←	←	6800	←	←	←	←	←	←	←

DRIVEN PULLEY (HPV)

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				
Clutching	Spring	Yellow 415 092 800	←	←	←	←	←	←	←	←	←	←
	Spring tension	Kg ± 0.7 lb ± 1.5	0.0	←	←	←	←	←	←	←	←	←
	Cam angle	° (degrees)	47° - 44° 417 124 700	←	←	44° 417 126 574	←	←	←	←	←	←

Additional information: At and above 2400 m (8000 ft) use reverse connector (P/N 515 174 700). This connector must be plugged-in permanently in electronic box connector.

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
414 817 800	Spring (Blue/Violet)	1
417 005 296	Ramp 296	3
404 153 100	Pilot jet 45	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
404 119 400	Main jet 195	2
417 126 574	44° cam	1

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
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft					
Calibration	Main jet	210	195	180	165	150	135	PTO MAG					
	Jet needle	6AFY5	←	←	←	←	←	←	←	←	←	←	2
	Needle position	4	4	3	3	←	←	←	←	←	←	←	—
	Slide cut-away	2.0	←	←	←	←	←	←	←	←	←	←	2
	Pilot jet	40	←	←	45	←	←	←	←	←	←	←	2
	Mixture screw	1.5	←	←	2.0	←	←	←	←	←	←	←	—
	Valve seat	1.2	←	←	←	←	←	←	←	←	←	←	—
	Needle jet	P-4 (159)	←	←	←	←	←	←	←	←	←	←	2
	Float level	mm	23.9	←	←	←	←	←	←	←	←	←	—
	Idle	RPM ± 200	1650	←	←	←	←	←	←	←	←	←	—
	Idle throttle valve position	mm	1.9	2.0	2.1	2.2	2.2	2.2	2.2	2.2	2.2	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
			Sea Level	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	220	210	190	175	160	145	PTO MAG					
	- 30°C - 20°F	220	200	185	170	155	140	PTO MAG					
	- 20°C - 4°F	210	195	180	165	150	135	PTO MAG					
	- 10°C 14°F	205	190	175	160	145	130	PTO MAG					
	0°C 32°F	200	185	170	155	140	125	PTO MAG					
	10°C 50°F	195	180	165	150	135	120	PTO MAG					
	20°C 70°F	195	180	165	150	135	120	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		Blue/Green on Violet 417 126 621	←	←	Violet/Green 415 015 400	←	←
Block (Bombardier Lite)		417 118 100	←	←	←	←	←
Weight (Bombardier Lite)		1 x 417 120 400 4 x 417 114 400	← 1 x ← 3 x	← 1 x ← 2 x	1 x 417 120 400	←	←
Capsule (Bombardier Lite)		1 x 417 114 500	←	←	←	←	←
Engagement RPM ± 100		3600	3700	3800	3900	←	←
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		Yellow 415 092 800	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	0.0 Position 3	←	←	←	←	←
Cam angle	° (degrees)	44° 417 126 333	←	←	←	←	←

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
415 015 400	Spring (Violet/Green)	1
404 123 900	Main jet 120	1
404 130 400	Main jet 135	1
404 130 500	Main jet 145	1
404 118 200	Main jet 160	1
404 123 800	Main jet 170	1

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		185	170	160	145	135	120	2
Jet needle		6CDY1	←	←	←	←	←	2
Needle position		3	3	2	2	←	←	—
Slide cut-away		2.0	←	←	←	←	←	2
Pilot jet		40	←	←	←	←	←	2
Mixture screw		1.5	←	←	1.5	←	←	—
Valve seat		1.2	←	←	←	←	←	—
Needle jet		Q-2 (159)	←	←	←	←	←	2
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM ± 200	1650	←	←	←	←	←	—
Idle throttle valve position	mm	1.7	1.8	1.9	1.9	2.0	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		195	180	170	155	145	130	2
- 30°C - 20°F		190	175	165	150	140	125	2
- 20°C - 4°F		185	170	160	145	135	120	2
- 10°C 14°F		180	165	155	140	130	115	2
0°C 32°F		175	160	150	135	125	110	2
10°C 50°F		170	155	145	130	120	110	2
20°C 70°F		170	155	145	130	120	110	2

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

Legend 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	
			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 on Violet 417 126 621	←	←	←	←	←	←	←	←	←	←
Block (Bombardier Lite)		417 118 100	←	←	←	←	←	←	←	←	←	←
Weight (Bombardier Lite)		1 x 417 120 400 4 x 417 114 400	← 1 x ← 3 x	← 1 x ← 2 x	← 1 x ← 2 x	← 1 x ← 2 x	← 1 x ← 2 x	← 1 x ← 2 x	← 1 x ← 2 x	← 1 x ← 2 x	← 1 x ← 2 x	← 1 x ← 2 x
Capsule (Bombardier Lite)		1 x 417 114 500	←	←	←	←	←	←	←	←	←	←
Engagement RPM ± 100		3600	3700	3800	3900	←	←	←	←	←	←	←
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	
			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)	44° 417 126 333	←	←	←	←	←	←	←	←	←	←

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
415 015 400	Spring (Violet/Green)	1
404 123 900	Main jet 120	1
404 130 400	Main jet 135	1
404 130 500	Main jet 145	1
404 118 200	Main jet 160	1
404 123 800	Main jet 170	1

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
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft					
Calibration													
Main jet		185	170	160	145	135	120	2					
Jet needle		6CDY1	←	←	←	←	←	←	←	←	←	←	2
Needle position		3	3	2	2	←	←	←	←	←	←	←	—
Slide cut-away		2.0	←	←	←	←	←	←	←	←	←	←	2
Pilot jet		40	←	←	←	←	←	←	←	←	←	←	2
Mixture screw		1.5	←	←	←	1.5	←	←	←	←	←	←	—
Valve seat		1.2	←	←	←	←	←	←	←	←	←	←	—
Needle jet		Q-2 (159)	←	←	←	←	←	←	←	←	←	←	2
Float level	mm	23.9	←	←	←	←	←	←	←	←	←	←	—
Idle	RPM ± 200	1650	←	←	←	←	←	←	←	←	←	←	—
Idle throttle valve position	mm	1.7	1.8	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	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
			Sea Level	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		195	180	170	155	145	130	2					
- 30°C - 20°F		190	175	165	150	140	125	2					
- 20°C - 4°F		185	170	160	145	135	120	2					
- 10°C 14°F		180	165	155	140	130	115	2					
0°C 32°F		175	160	150	135	125	110	2					
10°C 50°F		170	155	145	130	120	110	2					
20°C 70°F		170	155	145	130	120	110	2					

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

Grand Touring 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	
			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 on Violet 417 126 621	←	←	←	←	←	←	←	←	←	←
Block (Bombardier Lite)		417 118 100	←	←	←	←	←	←	←	←	←	←
Weight (Bombardier Lite)		1 x 417 120 400 4 x 417 114 400	← 1 x ← 3 x	← 1 x ← 2 x	← 1 x ← 2 x	← 1 x ← 2 x	← 1 x ← 2 x	← 1 x ← 2 x	← 1 x ← 2 x	← 1 x ← 2 x	← 1 x ← 2 x	← 1 x ← 2 x
Capsule (Bombardier Lite)		1 x 417 114 500	←	←	←	←	←	←	←	←	←	←
Engagement RPM ± 100		3600	3700	3800	3900	←	←	←	←	←	←	←
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	
			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)	44° 417 126 333	←	←	←	←	←	←	←	←	←	←

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
415 015 400	Spring (Violet/Green)	1
404 123 900	Main jet 120	1
404 130 400	Main jet 135	1
404 130 500	Main jet 145	1
404 118 200	Main jet 160	1
404 123 800	Main jet 170	1

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
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft					
Calibration													
Main jet		185	170	160	145	135	120	2					
Jet needle		6CDY1	←	←	←	←	←	←	←	←	←	←	2
Needle position		3	3	2	2	←	←	←	←	←	←	←	—
Slide cut-away		2.0	←	←	←	←	←	←	←	←	←	←	2
Pilot jet		40	←	←	←	←	←	←	←	←	←	←	2
Mixture screw		1.5	←	←	←	1.5	←	←	←	←	←	←	—
Valve seat		1.2	←	←	←	←	←	←	←	←	←	←	—
Needle jet		Q-2 (159)	←	←	←	←	←	←	←	←	←	←	2
Float level	mm	23.9	←	←	←	←	←	←	←	←	←	←	—
Idle	RPM ± 200	1650	←	←	←	←	←	←	←	←	←	←	—
Idle throttle valve position	mm	1.7	1.8	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	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
			Sea Level	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		195	180	170	155	145	130	2					
- 30°C - 20°F		190	175	165	150	140	125	2					
- 20°C - 4°F		185	170	160	145	135	120	2					
- 10°C 14°F		180	165	155	140	130	115	2					
0°C 32°F		175	160	150	135	125	110	2					
10°C 50°F		170	155	145	130	120	110	2					
20°C 70°F		170	155	145	130	120	110	2					

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

Legend 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	
			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		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				
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
404 153 100	Pilot jet (45)	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
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
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft					
Calibration													
Main jet		210	195	180	165	150	135	PTO MAG					
Jet needle		6AFY5	←	←	←	←	←	←	←	←	←	←	2
Needle position		4	4	3	3	←	←	←	←	←	←	←	—
Slide cut-away		2.0	←	←	←	←	←	←	←	←	←	←	2
Pilot jet		40	←	←	45	←	←	←	←	←	←	←	2
Mixture screw		1.5	←	←	2.0	←	←	←	←	←	←	←	—
Valve seat		1.2	←	←	←	←	←	←	←	←	←	←	—
Needle jet		P-4 (159)	←	←	←	←	←	←	←	←	←	←	2
Float level	mm	23.9	←	←	←	←	←	←	←	←	←	←	—
Idle	RPM ± 200	1650	←	←	←	←	←	←	←	←	←	←	—
Idle throttle valve position	mm	1.9	2.0	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	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
			Sea Level	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		220	210	190	175	160	145	PTO MAG					
- 30°C - 20°F		220	200	185	170	155	140	PTO MAG					
- 20°C - 4°F		210	195	180	165	150	135	PTO MAG					
- 10°C 14°F		205	190	175	160	145	130	PTO MAG					
0°C 32°F		200	185	170	155	140	125	PTO MAG					
10°C 50°F		195	180	165	150	135	120	PTO MAG					
20°C 70°F		195	180	165	150	135	120	PTO MAG					

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

Summit 500 F (Fan)

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/Yellow 414 748 600	←	←	←	←	←	
Ramp	417 005 296	←	←	←	←	←	
Calibration screw position	1	1	2	3	4	5	
Pin	417 004 309 (Hollow)	←	←	←	←	←	
Engagement RPM ± 100	3800	←	←	←	←	←	
Maximum RPM ± 100	6700	←	←	←	←	←	

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 pos. 3	←	←	←	←	←
Cam angle	° (degrees)	44° 417 126 333	←	←	←	←	←

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

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

CARBURATION

Altitude		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	240	←	←	←	←	←	PTO MAG	
Jet needle	6AFY5	←	←	←	←	←	2	
Needle position	4	←	←	←	←	←	—	
Slide cut-away	2.0	←	←	←	←	←	2	
Pilot jet	70	←	←	←	←	←	2	
Mixture screw	2.25	2.5	3.0	3.5	←	←	—	
Valve seat	1.2	←	←	←	←	←	—	
Needle jet	P-8 (159)	←	←	←	←	←	2	
Float level	mm	23.9	←	←	←	←	—	
Idle	RPM ± 200	1650	←	←	←	←	—	
Idle throttle valve position	mm	1.8	2.0	2.1	2.2	←	←	—

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							PTO MAG	
- 30°C - 20°F							PTO MAG	
- 20°C - 4°F	240	←	←	←	←	←	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 800 (SE/SE Europe/Renegade R), Legend 800 (SE), Summit 800 (X Europe)

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		417 222 474	←	←	←	←	←	←	←	←	←	←
Calibration screw position		3	4	5	3	4	5					
Pin		417 004 308 (Solid)	←	←	←	←	←	←	←	←	←	←
Engagement RPM ± 100		3800	←	←	←	←	←	←	←	←	←	←
Maximum RPM ± 100		7900	←	←	←	←	←	←	←	←	←	←

DRIVEN PULLEY (HPV)

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	N.A.	—	—	—	—	—	—	—	—	—	—
Cam angle	° (degrees)	47° - 44° (anodized) 417 126 385	←	←	←	←	44° (anodized) 417 126 445	←	←	←	←	←

Additional information: At and above 2400 m (8000 ft) or in deep snow, use 24 tooth sprocket, 74 link chain, 13 wide.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
414 817 900	Spring (Violet/Violet)	1
417 126 445	Cam 44° (anodized)	1

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		520N	←	←	←	←	←	←	←	←	←	←	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		N.A.	←	←	←	←	←	←	←	←	←	←	2
Float level		mm	N.A.	←	←	←	←	←	←	←	←	←	—
Idle		RPM ± 200	1500	←	←	←	←	←	←	←	←	←	—
Idle throttle valve position		mm	1.7	1.8	1.9	2.0	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													PTO MAG
- 30°C - 20°F													PTO MAG
- 20°C - 4°F		520N	←	←	←	←	←	←	←	←	←	←	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.

Grand Touring 700 (GS), Legend 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	
			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		417 222 372	←	←	←	←	←	←	←	←	←	←
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 (HPV)

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				
Clutching												
Spring		Violet 414 978 300	←	←	←	←	←	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	N.A.	—	—	—	—	—	—	—	—	—	—
Cam angle	° (degrees)	47° 417 126 577	←	←	←	←	←	←	←	←	←	←

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

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
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft					
Calibration													
Main jet		510N	←	←	←	←	←	←	←	←	←	←	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	←	1.8	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
			Sea Level	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													PTO MAG
- 30°C - 20°F													PTO MAG
- 20°C - 4°F		510N	←	←	←	←	←	←	←	←	←	←	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.

Grand Touring 700 (Sport), Legend 700 (Sport)

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				
Clutching												
Spring		Blue/Yellow 414 689 500	←	←	←	←	←	←	←	←	←	←
Ramp		417 222 372	←	←	←	←	←	←	←	←	←	←
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 (HPV)

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				
Clutching												
Spring		Violet 414 978 300	←	←	←	←	←	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	N.A.	—	—	—	—	—	—	—	—	—	—
Cam angle	° (degrees)	47° 417 126 577	←	←	←	←	←	←	←	←	←	←

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
404 109 400	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
404 161 976	Jet needle (9ZLY4-58)	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
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft					
Calibration													
Main jet		510N	480	450	410	380	340	PTO MAG					
Jet needle		9ZLY3-58	←	←	9ZLY4-58	←	←	←	←	←	←	←	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	←	1.8	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
			Sea Level	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		520N	510N	480	440	400	370	PTO MAG					
- 30°C - 20°F		510N	500	460	430	390	350	PTO MAG					
- 20°C - 4°F		510N	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.

NOTE: Shaded columns give factory settings.

Grand Touring 600 (GS/SE), Legend 600 (GS/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/Violet 414 817 900	←	←	Violet/Blue 415 034 900	←	←	
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	3600	←	←	3800	←	←	
Maximum RPM ± 100	8000	←	←	←	←	←	

DRIVEN PULLEY (HPV)

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	N.A.	←	←	←	←	←
Cam angle	° (degrees)	47° (anodized) 417 126 577	←	←	←	←	←

Additional information: At and above 2400 m (8000 ft) or in deep snow, use 22 tooth sprocket (P/N 504 083 500) chain to get chaincase ratio of 22/43.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
415 034 900	Spring (Violet/Blue)	1
417 004 309	Pin (Hollow)	3

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	←	←	←	←	←	←	PTO MAG
Jet needle	9HGY1-58	←	←	←	←	←	←	2
Needle position	N.A.	←	←	←	←	←	←	—
Slide cut-away	2.0	←	←	←	←	←	←	2
Pilot jet	20	←	←	←	←	←	←	2
Mixture screw	1.5	←	←	←	←	←	←	—
Valve seat	1.5	←	←	←	←	←	←	—
Needle jet	N.A.	←	←	←	←	←	←	2
Float level	mm	N.A.	←	←	←	←	←	←
Idle	RPM ± 200	1600	←	←	←	←	←	—
Idle throttle valve position	mm	1.8	1.9	←	2.0	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								PTO MAG
- 30°C - 20°F								PTO MAG
- 20°C - 4°F	500	←	←	←	←	←	←	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.

Grand Touring 600 (Sport), Legend 600 (Sport)

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				
Clutching	Spring	Violet/Violet 414 817 900	←	←	←	←	Violet/Blue 415 034 900	←	←	←	←	
	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	3600	←	←	←	←	3800	←	←			
	Maximum RPM ± 100	8000	←	←	←	←	←	←	←			

DRIVEN PULLEY (HPV)

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				
Clutching	Spring	Violet 414 978 300	←	←	←	←	←	←	←	←		
	Spring tension	Kg ± 0.7 lb ± 1.5	N.A.	—	—	—	—	—	—	—		
	Cam angle	° (degrees)	47° (anodized) 417 126 577	←	←	←	←	←	←	←		

Additional information: At and above 2400 m (8000 ft) or in deep snow, use 22 tooth sprocket (P/N 504 083 500) chain to get chaincase ratio of 22/43.

PART TO BE INSTALLED

P/N	DESCRIPTION	QTY
415 034 900	Spring (Violet/Blue)	1
417 004 309	Pin (Hollow)	3
404 106 100	Main jet 360	2
404 106 400	Main jet 390	2
404 101 000	Main jet 410	2
404 108 100	Main jet 440	2
404 106 700	Main jet 470	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
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft					
Calibration	Main jet	500	470	440	410	390	360	PTO MAG					
	Jet needle	9HGY1-58	←	←	←	←	←	←	2				
	Needle position	N.A.	←	←	←	←	←	←	—				
	Slide cut-away	2.0	←	←	←	←	←	←	2				
	Pilot jet	20	←	←	←	←	←	←	2				
	Mixture screw	1.5	←	←	←	2.0	←	←	—				
	Valve seat	1.5	←	←	←	←	←	←	—				
	Needle jet	N.A.	←	←	←	←	←	←	2				
	Float level	mm	N.A.	—	—	—	—	—	—				
	Idle	RPM ± 200	1600	←	←	←	←	←	←	—			
	Idle throttle valve position	mm	1.8	1.9	←	2.0	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
			Sea Level	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	520N	500	470	450	420	390	PTO MAG					
	- 30°C - 20°F	510N	480	450	430	400	370	PTO MAG					
	- 20°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.

NOTE: Shaded columns give factory settings.

Grand Touring 500 (Sport/Europe), Legend 500 (Sport)

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	Violet/Pink 414 949 500	←	←	Violet/Violet 414 817 900	←	←
Ramp	417 222 376	←	←	← 417 005 296	←	←
Calibration screw position	4	5	6	3	4	5
Pin	417 004 308 (Solid)	←	←	417 004 309 (Hollow)	←	←
Engagement RPM ± 100	3500	←	←	4000	←	←
Maximum RPM ± 100	8000	←	←	←	←	←

DRIVEN PULLEY (HPV)

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	Violet 414 978 300	←	←	←	←	←
Spring tension	Kg ± 0.7 lb ± 1.5	←	←	←	←	←
Cam angle	44° (anodized) 417 126 445	←	←	←	←	←

Additional information: At 1800 m (6000 ft) and higher, install RAVE valve spring (P/N 420 239 941).

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
414 817 900	Spring (Violet/Violet)	1
417 004 309	Pin (Hollow)	3
417 005 296	Ramp (296)	3
404 108 600	Pilot jet 20	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
420 239 941	RAVE valve spring (0.8 mm x 52.5 mm)	2
404 161 992	Jet needle (9HGY4-58)	2

NOTE: Shaded columns give factory settings.

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	500	470	440	420	390	360	PTO MAG
Jet needle	9HGY1-58	←	←	9HGY4-58	←	←	2
Needle position	N.A.	←	←	2	←	←	—
Slide cut-away	2.0	←	←	←	←	←	2
Pilot jet	17.5	←	←	20	←	←	2
Mixture screw	1.0	←	←	2.0	←	←	—
Valve seat	1.5	←	←	←	←	←	—
Needle jet	N.A.	←	←	←	←	←	2
Float level	mm	N.A.	←	←	←	←	—
Idle	RPM ± 200	1600	←	←	←	←	—
Idle throttle valve position	mm	1.8	1.9	←	2.0	2.2	←

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	520N	500	470	450	420	390	PTO MAG
- 30°C - 20°F	510N	480	450	430	400	370	PTO MAG
- 20°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.

Grand Touring 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	Red/Orange 414 015 200	←	←	Yellow/Violet 414 678 400	←	←	
Ramp	417 005 296	←	←	←	←	←	
Calibration screw position	3	4	5	3	4	5	
Pin	417 004 309 (Hollow)	←	←	←	←	←	
Engagement RPM ± 100	3500	←	←	3800	←	←	
Maximum RPM ± 100	6700	←	←	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	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
414 678 400	Spring (Yellow/Violet)	1
404 153 100	Pilot jet (45)	2
417 005 296	Ramp	3
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
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		210	195	180	165	150	135	PTO MAG
Jet needle	6AFY5	←	←	←	←	←	←	2
Needle position	4	4	3	3	←	←	←	—
Slide cut-away	2.0	←	←	←	←	←	←	2
Pilot jet	40	←	←	45	←	←	←	2
Mixture screw	1.5	←	←	2.0	←	←	←	—
Valve seat	1.2	←	←	←	←	←	←	—
Needle jet	P-4 (159)	←	←	←	←	←	←	2
Float level	mm	23.9	←	←	←	←	←	—
Idle	RPM ± 200	1650	←	←	←	←	←	—
Idle throttle valve position	mm	1.9	2.0	2.1	2.2	2.2	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		220	210	190	175	160	145	PTO MAG
- 30°C - 20°F		220	200	185	170	155	140	PTO MAG
- 20°C - 4°F		210	195	180	165	150	135	PTO MAG
- 10°C 14°F		205	190	175	160	145	130	PTO MAG
0°C 32°F		200	185	170	155	140	125	PTO MAG
10°C 50°F		195	180	165	150	135	120	PTO MAG
20°C 70°F		195	180	165	150	135	120	PTO MAG

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

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	
			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	
			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
404 161 979	Main jet 215	2
404 100 200	Main jet 240	2
404 100 600	Main jet 260	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
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft					
Calibration													
Main jet		330	310	290	260	240	215	PTO MAG					
Jet needle		6FL14	←	←	←	←	←	←	←	←	←	←	2
Needle position		5	←	←	4	←	←	←	←	←	←	←	—
Slide cut-away		2.5	←	←	←	←	←	←	←	←	←	←	2
Pilot jet		40	←	←	←	←	←	←	←	←	←	←	2
Mixture screw		1.5	←	←	←	1.0	←	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	←	←	←	←	←	—
Needle jet		P-9 (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
			Sea Level	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		350	330	300	280	250	230	PTO MAG					
- 30°C - 20°F		340	320	290	270	250	220	PTO MAG					
- 20°C - 4°F		330	310	290	260	240	215	PTO MAG					
- 10°C 14°F		320	300	280	250	230	210	PTO MAG					
0°C 32°F		310	290	270	240	220	200	PTO MAG					
10°C 50°F		300	280	260	230	210	190	PTO MAG					
20°C 70°F		290	270	250	220	205	185	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

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	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	2.0	←	←	2.5	←	←	—	
	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.

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	
			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	←	←	←	←	←	←	←	←	←	←
	Ramp	417 005 290	←	←	←	←	←	←	←	←	←	←
	Calibration screw position	4	5	6	2	3	4					
	Pin	417 004 309 (Hollow)	←	←	←	←	←	←	←	←	←	←
	Engagement RPM ± 100	3000	←	←	←	←	←	←	←	←	←	←
	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	
			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
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

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
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft					
Calibration	Main jet	185	175	165	155	145	135	PTO MAG					
	Jet needle	6DH2	←	←	←	←	←	←	←	←	←	2	
	Needle position	3	←	←	←	←	←	←	←	←	←	—	
	Slide cut-away	2.5	←	←	←	←	←	←	←	←	←	2	
	Pilot jet	40	←	←	←	←	←	←	←	←	←	2	
	Mixture screw	2.0	←	←	←	←	←	←	←	←	←	—	
	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
			Sea Level	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	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.

Skandic 440 LT (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	
			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	←	←	←	←	←	←	←	←	←	←
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	
			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)	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
404 123 900	Main jet 120	2
404 124 900	Main jet 130	2
404 130 500	Main jet 145	2
404 128 700	Main jet 155	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
			Sea Level	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	155	145	130	120	PTO MAG					
Jet needle		6DGY12	←	←	←	←	←	←	←	←	←	←	2
Needle position		3	←	2	←	←	←	←	←	←	←	←	—
Slide cut-away		3.0	←	←	←	←	←	←	←	←	←	←	2
Pilot jet		50	←	←	←	←	←	←	←	←	←	←	2
Mixture screw		1.0	1.25	←	1.5	←	←	←	←	←	←	←	—
Valve seat		1.5	←	←	←	←	←	←	←	←	←	←	—
Needle jet		(159) 0-0	←	←	←	←	←	←	←	←	←	←	2
Float level		mm	23.9	←	←	←	←	←	←	←	←	←	—
Idle		RPM ± 200	1800	←	←	←	←	←	←	←	←	←	—
Idle throttle valve position		mm	1.4	1.6	1.8	1.8	2.0	2.0	2.0	2.0	2.0	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
			Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft					
- 40°C - 40°F		190	180	165	155	140	130	130	120	110	100	1	
- 30°C - 20°F		185	175	160	150	135	125	125	115	105	95	1	
- 20°C - 4°F		180	170	155	145	130	120	120	110	100	90	1	
- 10°C 14°F		175	165	150	140	125	115	115	105	95	85	1	
0°C 32°F		170	160	145	135	120	110	110	100	90	80	1	
10°C 50°F		165	155	140	130	115	105	105	95	85	75	1	
20°C 70°F		165	155	140	130	115	105	105	95	85	75	1	

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

Tundra Skandic 277 (Fan)

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		Turquoise 417 115 900	←	Yellow/Green on Violet 417 118 500	←	←	←
Block (Bombardier Lite)		417 114 300	←	←	←	←	←
Weight (Bombardier Lite)		3 x 417 114 400	2 x ←	3 x ←	2 x ←	1 x ←	—
Capsule (Bombardier Lite)		1 x 417 114 500	←	←	Qty 2 x ←	2 x ←	3 x ←
Engagement RPM ± 100		3000	←	3500	←	←	←
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 415 094 300	←	←	←	←	←
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.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 118 500	Spring (Yellow/Green on Violet)	1
404 126 600	Main jet 140	1
404 120 900	Main jet 150	1
404 118 200	Main jet 160	1
404 119 500	Main jet 185	1
404 119 400	Main jet 195	1

NOTE: Shaded columns give factory settings.

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		200	195	185	160	150	140	1
Jet needle		6DH4	←	←	←	←	←	1
Needle position		3	←	←	2	←	←	—
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	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		220	210	200	180	170	160	1
- 30°C - 20°F		210	200	190	170	160	150	1
- 20°C - 4°F		200	195	185	160	150	140	1
- 10°C 14°F		195	190	180	155	145	135	1
0°C 32°F		190	185	175	150	140	130	1
10°C 50°F		180	175	165	140	130	120	1
20°C 70°F		175	170	160	135	125	115	1

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