Please route to:

Init.

- ☐ Service ☐
- ☐ Sales ☐
- ☐ Parts ☐

ski-doo® Bombardier

SNOWMOBILES

S

SERVICE Bulletin

Date: **December 3, 2003** Subject: **High Altitude/Sea Level Specifications** No. **2004-2** **REVISION 1**

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
2004	All	All	All

➔ This bulletin supplies additional information to the *Service Bulletin 2004–2* for high altitude adjustments on the 600 HO SDI models only.

Use the *Closed Throttle Reset* procedure included in this document in conjunction with the *Service Bulletin 2004–2* when idle speed screw adjustment is required.

Replace in the *Service Bulletin 2004–2* the appropriate pages with the new ones included in this document.

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

For 2003 models, refer to *Service Bulletin 2003–5 Rev 1*.

For 2002 models, refer to *Service Bulletin 2002-5*.

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 high altitude operation as well as sea level operation.

PARTS COST AND LABOR ARE NOT COVERED BY BOMBARDIER LIMITED WARRANTY.

Next page table gives a quick reference to proper page.

Photo shows the 2 different types of weight used in *Bombardier Lite* cluthes.

Refer to pages 56, 58, 60, 62, 64, 66, 68, 70 and 72.

➔ Idle Screw Adjustment

NOTE: This operation performs a reset of the values in the ECM.

This reset is very important. The setting of the TPS will determine the basic parameters for all fuel mapping and several ECM calculations in idle speed control of the engine.

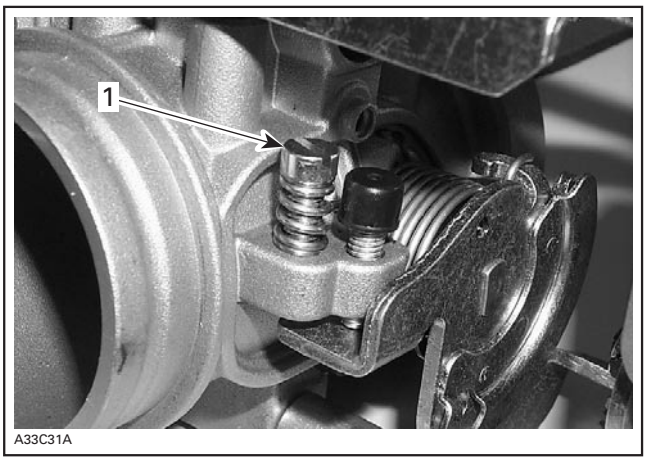
CAUTION: An improperly set TPS may lead to poor engine performance.

Remove the air intake silencer.

Disconnect the air valve connector.

Unscrew idle speed screw **[**1**]** until the throttle body plate stop lever rests against its zero position stopper screw (capped screw). If necessary, loosen the throttle cable. Open throttle approximately one quarter then quickly release. Repeat 2 - 3 times to settle throttle plate.

CAUTION: Never attempt to adjust the zero position stopper screw (the capped one).



Use the vehicle communication kit (VCK) with the B.U.D.S. software to perform this adjustment.

Select the vehicle's protocol in **Choose Protocol** from the **MPI** menu.The protocol is KW 2000.

Remove the protective cap from the 6 pin connector on the vehicle.

Connect the B.U.D.S. harness 6 pin adapter directly to the 6 pin vehicle connector.

Turn the engine shutdown switch to the engine off position.

Insert the grey DESS cap (P/N 529 035 896).

Press the start button to wake up the ECM.

Press the **Read Data** button.

Click on **Setting** tab.

Push the **Reset** button in the **Throttle Opening** section box.

The following message will be displayed:

Make sure the idle screw is not in contact with the throttle stopper. Click OK to continue.

Follow instructions and click OK.

Another message will appear to ask you to perform a ECU tracking shut down to save the changes into the ECU permanent memory.

Remove the tether cord cap from the DESS post and wait until the message disappears before reinserting the tether cord cap.

Re-power up the ECM by pushing the START/RER button momentarily.

The throttle opening displayed in B.U.D.S. should be 0.00 (0.05 maximum).

If TPS is not within the allowed range while resetting the **Closed Throttle**, the ECM will generate a fault code and will not accept the setting.

Now, the idle speed screw has to be adjusted. To do this, screw in the idle speed screw until B.U.D.S. throttle opening displays value as per following table.

At 1800 m (6000 ft)	
ENGINE TYPE	VALUE
593 SDI	4.05° to 4.15°

Ensure to save new data by clicking on the **Write Data** button.

If throttle cable has been loosened during the procedure, adjust throttle cable.

Reinstall all removed parts.

Start engine and make sure it operates normally through its full engine RPM range.

THIS PAGE IS
PURPOSELY BLANK

LEGEND V-1000 (R) (SE/Sport/ SE G.T./Sport G.T.)

DRIVE PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Red/Yellow 414 817 500	⇐	⇐	Red/Red 414 689 800	⇐	⇐
Ramp	417 222 569 (607)	⇐	⇐	⇐	⇐	⇐
Calibration Screw Position	3	4	2	3	4	5
Pin	417 222 594 (Solid/Long)	⇐	⇐	417 004 309 (Hollow)	⇐	⇐
Engagement RPM (± 100)	2500	⇐	2800	⇐	⇐	⇐
Maximum RPM (± 100)	7250	⇐	⇐	⇐	⇐	⇐

DRIVEN PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Pink 417 126 735	⇐	⇐	⇐	⇐	⇐
Spring Tension (kg ± 0.7 lb ± 1.5)	5.7 kg 12.6 lb	⇐	⇐	⇐	⇐	⇐
Cam Angle (degrees)	50° – 40° 417 126 721	⇐	⇐	⇐	⇐	⇐

CAUTION: These 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
414 689 800	Spring (Red/Red)	1
417 004 309	Pin (Hollow)	3

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

NOTE: Shaded column gives factory settings.

MX Z 800 HO (R) (X)

DRIVE PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Violet/Green 415 015 400	⇐	⇐	⇐	⇐	⇐
Ramp	417 222 546 (414)	⇐	⇐	⇐	⇐	⇐
Calibration Screw Position	3	4	5	3	4	5
Pin	417 222 594 (Solid/Long)	⇐	⇐	417 004 308 (solid)	⇐	⇐
Engagement RPM (± 100)	3800	⇐	⇐	⇐	⇐	⇐
Maximum RPM (± 100)	7850	⇐	⇐	⇐	⇐	⇐

DRIVEN PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Green 417 126 688	⇐	⇐	⇐	⇐	⇐
Spring Tension (kg ± 0.7 lb ± 1.5)	0.0	⇐	⇐	⇐	⇐	⇐
Cam Angle (degrees)	50° – 40° 417 126 721	⇐	⇐	⇐	⇐	⇐

Additional Information: At and above 2400 m (8000 ft) or in deep snow, use 24 tooth sprocket (P/N 504 139 700), 74 link chain, 13 wide (P/N 504 151 857).

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 004 308	Pin (solid)	3
Refer to last page Chart for Main Jets Part Numbers		

NOTE: Carburetion and **Main Jet** Charts shown on next page.

CARBURETION

Altitude ⇒ Calibration ⇓	**Sea Level**	**600 m 2000 ft**	**1200 m 4000 ft**	**1800 m 6000 ft**	**2400 m 8000 ft**	**3000 m 10000 ft**	**Qty**
Main jet	400	⇐	⇐	⇐	⇐	⇐	2
Jet needle	9DGI07–58	⇐	⇐	⇐	⇐	⇐	2
Needle position	N.A.	⇐	⇐	⇐	⇐	⇐	—
Slide cut-away	2.0	⇐	⇐	⇐	⇐	⇐	—
Pilot jet	17.5	⇐	⇐	⇐	⇐	⇐	2
Mixture Screw	1.5	⇐	⇐	⇐	⇐	⇐	—
Valve seat	1.5	⇐	⇐	⇐	⇐	⇐	—
Needle jet	P-0	⇐	⇐	⇐	⇐	⇐	2
Float level (mm)	N.A.	⇐	⇐	⇐	⇐	⇐	—
Idle RPM (± 200)	1500	⇐	⇐	⇐	⇐	⇐	—
Idle throttle valve position (mm)	1.7	⇐	1.8	⇐	1.9	⇐	—

MAIN JET CHART

Altitude ⇒ Temperature ⇓	**Sea Level**	**600 m 2000 ft**	**1200 m 4000 ft**	**1800 m 6000 ft**	**2400 m 8000 ft**	**3000 m 10000 ft**	
- 40°C - 40°F	430	⇐	⇐	⇐	⇐	⇐	PTO MAG
- 30°C - 20°F	420	⇐	⇐	⇐	⇐	⇐	PTO MAG
- 20°C - 4°F	**400**	⇐	⇐	⇐	⇐	⇐	**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 column gives factory settings.

MX Z 800 HO (R)
(Adrenaline (non DPM))

DRIVE PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Violet/Green 415 015 400	⇐	⇐	⇐	⇐	⇐
Ramp	417 222 546 (414)	⇐	⇐	⇐	⇐	⇐
Calibration Screw Position	3	4	5	3	4	5
Pin	417 222 594 (Solid/Long)	⇐	⇐	417 004 308 (solid)	⇐	⇐
Engagement RPM (± 100)	3800	⇐	⇐	⇐	⇐	⇐
Maximum RPM (± 100)	7850	⇐	⇐	⇐	⇐	⇐

DRIVEN PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Green 417 126 688	⇐	⇐	⇐	⇐	⇐
Spring Tension (kg ± 0.7 lb ± 1.5)	0.0	⇐	⇐	⇐	⇐	⇐
Cam Angle (degrees)	50° – 40° 417 126 721	⇐	⇐	⇐	⇐	⇐

Additional Information: At and above 2400 m (8000 ft) or in deep snow, use 24 tooth sprocket (P/N 504 139 700), 74 link chain, 13 wide (P/N 504 151 857).

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
404 162 033	Jet Needle (9DGI08–58)	2
417 004 308	Pin (solid)	3
Refer to last page Chart for Main Jets Part Numbers		

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

NOTE: Shaded column gives factory settings.

NOTE: Carburetion and **Main Jet** Charts shown on next page.

CARBURETION

Altitude ⇒ Calibration ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	400	⇐	⇐	⇐	⇐	⇐	2
Jet needle	9DGI07–58	⇐	⇐	9DGI08–58	⇐	⇐	2
Needle position	N.A.	⇐	⇐	⇐	⇐	⇐	—
Slide cut-away	2.0	⇐	⇐	⇐	⇐	⇐	—
Pilot jet	17.5	⇐	⇐	⇐	⇐	⇐	2
Mixture Screw	1.5	⇐	⇐	⇐	⇐	⇐	—
Valve seat	1.5	⇐	⇐	⇐	⇐	⇐	—
Needle jet	P-0	⇐	⇐	⇐	⇐	⇐	2
Float level (mm)	N.A.	⇐	⇐	⇐	⇐	⇐	—
Idle RPM (± 200)	1500	⇐	⇐	⇐	⇐	⇐	—
Idle throttle valve position (mm)	1.7	⇐	1.8	⇐	1.9	⇐	—

MAIN JET CHART

Altitude ⇒ Temperature ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 40°C - 40°F	430	410	390	360	340	310	PTO MAG
- 30°C - 20°F	420	390	370	350	320	300	PTO MAG
- 20°C - 4°F	**400**	380	350	330	300	280	**PTO MAG**
- 10°C 14°F	390	360	340	310	290	270	PTO MAG
0°C 32°F	370	350	320	290	270	250	PTO MAG
10°C 50°F	350	330	310	280	260	230	PTO MAG
20°C 70°F	340	310	290	270	240	220	PTO MAG

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

NOTE: Shaded column gives factory settings.

GSX 800 HO (R) (Limited)

DRIVE PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Blue/Green 414 817 700	⇐	⇐	⇐	⇐	⇐
Ramp	417 222 546 (414)	⇐	⇐	⇐	⇐	⇐
Calibration Screw Position	3	4	5	3	4	5
Pin	417 222 594 (Solid - Long)	⇐	⇐	417 004 308 (solid)	⇐	⇐
Engagement RPM (± 100)	3600	⇐	⇐	⇐	⇐	⇐
Maximum RPM (± 100)	7850	⇐	⇐	⇐	⇐	⇐

DRIVEN PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Green 417 126 688	⇐	⇐	⇐	⇐	⇐
Spring Tension (kg ± 0.7 lb ± 1.5)	0.0	⇐	⇐	⇐	⇐	⇐
Cam Angle (degrees)	50° – 40° 417 126 721	⇐	⇐	⇐	⇐	⇐

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 004 308	Pin (solid)	3
Refer to last page Chart for Main Jets Part Numbers		

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

NOTE: Shaded column gives factory settings.

NOTE: Carburetion and **Main Jet** Charts shown on next page.

CARBURETION

Altitude ⇒ Calibration ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	400	⇐	⇐	⇐	⇐	⇐	2
Jet needle	9DGI07–58	⇐	⇐	⇐	⇐	⇐	2
Needle position	N.A.	⇐	⇐	⇐	⇐	⇐	—
Slide cut-away	2.0	⇐	⇐	⇐	⇐	⇐	—
Pilot jet	17.5	⇐	⇐	⇐	⇐	⇐	2
Mixture Screw	1.5	⇐	⇐	⇐	⇐	⇐	—
Valve seat	1.5	⇐	⇐	⇐	⇐	⇐	—
Needle jet	P-0	⇐	⇐	⇐	⇐	⇐	2
Float level (mm)	N.A.	⇐	⇐	⇐	⇐	⇐	—
Idle RPM (± 200)	1500	⇐	⇐	⇐	⇐	⇐	—
Idle throttle valve position (mm)	1.7	⇐	1.8	⇐	1.9	⇐	—

MAIN JET CHART

Altitude ⇒ Temperature ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 40°C - 40°F	430	⇐	⇐	⇐	⇐	⇐	PTO MAG
- 30°C - 20°F	420	⇐	⇐	⇐	⇐	⇐	PTO MAG
- 20°C - 4°F	**400**	⇐	⇐	⇐	⇐	⇐	**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 column gives factory settings.

MX Z 800 HO (R) (Renegade/Renegade X with 1.25" track)

DRIVE PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Violet/Green 415 015 400	⇐	⇐	Green/Purple 414 762 800	⇐	⇐
Ramp	417 222 548 (415)	⇐	⇐	⇐	⇐	⇐
Calibration Screw Position	3	4	5	3	4	5
Pin	417 222 594 (Solid - Long)	417 004 308 (Solid)	⇐	⇐	⇐	⇐
Engagement RPM (± 100)	3800	⇐	3900	4000	⇐	4100
Maximum RPM (± 100)	7850	⇐	⇐	⇐	⇐	⇐

DRIVEN PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Green 417 126 688	⇐	⇐	⇐	⇐	⇐
Spring Tension (kg ± 0.7 lb ± 1.5)	0.0	⇐	⇐	⇐	⇐	⇐
Cam Angle (degrees)	47° – 40° (anodized) 417 126 724	⇐	⇐	⇐	⇐	⇐

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
414 762 800	Spring (Green/Purple)	1
417 004 308	Pin (Solid)	3

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

NOTE: Shaded column gives factory settings.

NOTE: Carburetion and **Main Jet** Charts shown on next page.

CARBURETION

Altitude ⇒ Calibration ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	400	⇐	⇐	⇐	⇐	⇐	2
Jet needle	9DGI07–58	⇐	⇐	⇐	⇐	⇐	2
Needle position	N.A.	⇐	⇐	⇐	⇐	⇐	—
Slide cut-away	2.0	⇐	⇐	⇐	⇐	⇐	—
Pilot jet	17.5	⇐	⇐	⇐	⇐	⇐	2
Mixture Screw	1.5	⇐	⇐	⇐	⇐	⇐	—
Valve seat	1.5	⇐	⇐	⇐	⇐	⇐	—
Needle jet	P-0	⇐	⇐	⇐	⇐	⇐	2
Float level (mm)	N.A.	⇐	⇐	⇐	⇐	⇐	—
Idle RPM (± 200)	1500	⇐	⇐	⇐	⇐	⇐	—
Idle throttle valve position (mm)	1.7	⇐	1.8	⇐	1.9	⇐	—

MAIN JET CHART

Altitude ⇒ Temperature ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 40°C - 40°F							PTO MAG
- 30°C - 20°F							PTO MAG
- 20°C - 4°F	**400**	⇐	⇐	⇐	⇐	⇐	**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 column gives factory settings.

MX Z 800 HO (R) (Renegade/Renegade X with 1.75" track)

DRIVE PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Violet/Green 415 015 400	⇐	⇐	Green/Purple 414 762 800	⇐	⇐
Ramp	417 222 548 (415)	⇐	⇐	⇐	⇐	⇐
Calibration Screw Position	2	3	4	4	5	6
Pin	417 004 308 (Solid)	⇐	⇐	⇐	⇐	⇐
Engagement RPM (± 100)	3800	⇐	4100	4200	⇐	4300
Maximum RPM (± 100)	7850	⇐	⇐	⇐	⇐	⇐

DRIVEN PULLEY (HPV)

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Green 417 126 688	⇐	⇐	⇐	⇐	⇐
Spring Tension (kg ± 0.7 lb ± 1.5)	0.0	⇐	⇐	⇐	⇐	⇐
Cam Angle (degrees)	47° – 40° (anodized) 417 126 724	⇐	⇐	⇐	⇐	⇐

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
414 762 800	Spring (Green/Purple)	1

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

NOTE: Shaded column gives factory settings.

NOTE: Carburetion and **Main Jet** Charts shown on next page.

CARBURETION

Altitude ⇒ Calibration ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	400	⇐	⇐	⇐	⇐	⇐	2
Jet needle	9DGI07–58	⇐	⇐	⇐	⇐	⇐	2
Needle position	N.A.	⇐	⇐	⇐	⇐	⇐	—
Slide cut-away	2.0	⇐	⇐	⇐	⇐	⇐	—
Pilot jet	17.5	⇐	⇐	⇐	⇐	⇐	2
Mixture Screw	1.5	⇐	⇐	⇐	⇐	⇐	—
Valve seat	1.5	⇐	⇐	⇐	⇐	⇐	—
Needle jet	P-0	⇐	⇐	⇐	⇐	⇐	2
Float level (mm)	N.A	⇐	⇐	⇐	⇐	⇐	—
Idle RPM (± 200)	1500	⇐	⇐	⇐	⇐	⇐	—
Idle throttle valve position (mm)	1.7	⇐	1.8	⇐	1.9	⇐	—

MAIN JET CHART

Altitude ⇒ Temperature ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 40°C - 40°F							PTO MAG
- 30°C - 20°F							PTO MAG
- 20°C - 4°F	**400**	⇐	⇐	⇐	⇐	⇐	**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 column gives factory settings.

MX Z 600 HO (Trail-non RER)

DRIVE PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Violet/Blue 415 034 900	⇐	⇐	Green/Blue 414 768 200	⇐	⇐
Ramp	417 222 596 (410)	⇐	⇐	⇐	⇐	⇐
Calibration Screw Position	3	4	5	3	4	5
Pin	417 004 308 (Solid)	417 222 477 (Hollow) 4 x set screw 206 260 699			⇐	⇐
Engagement RPM (± 100)	3800	3900	4000	4100	⇐	4200
Maximum RPM (± 100)	8000	⇐	⇐	⇐	⇐	⇐

DRIVEN PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	White 504 152 070	⇐	⇐	⇐	⇐	⇐
Spring Tension (kg ± 0.7 lb ± 1.5)	8.9 – 8.0 kg 19.6 – 17.6 lb	⇐	⇐	⇐	⇐	⇐
Cam Angle (degrees)	48° – 44° 417 126 704	⇐	⇐	44° 417 126 718	⇐	⇐

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
414 768 200	Spring (Green - Blue)	1
417 222 477	Pin (Hollow-threaded)	3
206 260 699	Set Screw	3
417 126 718	Cam (44°)	1
404 162 016	Jet Needle (9DHI12–58)	2
Refer to last page Chart for Main Jets Part Numbers		

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

NOTE: Shaded column gives factory settings.

NOTE: Carburetion and **Main Jet** Charts shown on next page.

CARBURETION

Altitude ⇒ Calibration ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	380	360	340	320	290	270	2
Jet needle	9DHI13–58	⇐	⇐	9DHI12-58	⇐	⇐	2
Needle position	3	⇐	⇐	2	⇐	⇐	—
Slide cut-away	2.0	⇐	⇐	⇐	⇐	⇐	—
Pilot jet	17.5	⇐	⇐	⇐	⇐	⇐	2
Mixture Screw	1.5	⇐	⇐	⇐	⇐	⇐	—
Valve seat	1.5	⇐	⇐	⇐	⇐	⇐	—
Needle jet	P-0	⇐	⇐	⇐	⇐	⇐	2
Float level (mm)	N.A.	⇐	⇐	⇐	⇐	⇐	—
Idle RPM (± 200)	1600	⇐	⇐	⇐	⇐	⇐	—
Idle throttle valve position (mm)	1.6	⇐	1.7	⇐	1.8	⇐	—

MAIN JET CHART

Altitude ⇒ Temperature ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 40°C - 40°F	410	390	370	340	320	300	PTO MAG
- 30°C - 20°F	400	370	350	330	300	280	PTO MAG
- 20°C - 4°F	**380**	360	340	320	290	270	**PTO MAG**
- 10°C 14°F	370	340	320	300	280	250	PTO MAG
0°C 32°F	350	330	300	280	260	250	PTO MAG
10°C 50°F	340	320	290	270	250	220	PTO MAG
20°C 70°F	320	300	280	250	230	210	PTO MAG

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

NOTE: Shaded column gives factory settings.

SUMMIT 800 HO (R) (HM Xtreme)

DRIVE PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	⇐	Violet/Yellow 415 015 300	⇐	⇐	⇐	⇐
Ramp	⇐	472 222 548 (415)	⇐	⇐	⇐	⇐
Calibration Screw Position	3	1	2	3	4	5
Pin	417 222 594 (Solid - Long)	417 222 595 (Hollow - Long) 1 x 206 261 299 set screw			417 222 595 (Hollow-Long)	
Engagement RPM (± 100)	⇐	3800	⇐	⇐	⇐	⇐
Maximum RPM (± 100)	⇐	7850	⇐	⇐	⇐	⇐

DRIVEN PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	⇐	Violet 414 978 300	⇐	⇐	⇐	⇐
Spring Tension (kg ± 0.7 lb ± 1.5)	⇐	0.0	⇐	⇐	⇐	⇐
Cam Angle (degrees)	⇐	44° – 40° 417 126 593	⇐	⇐	⇐	⇐

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 222 594	Pin (Solid - Long)	3
Refer to last page Chart for Main Jets Part Numbers		

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

NOTE: Shaded column gives factory settings.

NOTE: Carburetion and **Main Jet** Charts shown on next page.

CARBURETION

Altitude ⇒ Calibration ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	⇐	400	⇐	⇐	⇐	⇐	2
Jet needle	⇐	9EGY2-58	⇐	⇐	⇐	⇐	2
Needle position	⇐	3	⇐	⇐	⇐	⇐	—
Slide cut-away	⇐	2.0	⇐	⇐	⇐	⇐	—
Pilot jet	⇐	17.5	⇐	⇐	⇐	⇐	2
Mixture Screw	⇐	1.5	⇐	⇐	⇐	⇐	—
Valve seat	⇐	1.5	⇐	⇐	⇐	⇐	—
Needle jet	⇐	P-0	⇐	⇐	⇐	⇐	2
Float level (mm)	⇐	N.A.	⇐	⇐	⇐	⇐	—
Idle RPM (± 200)	⇐	1500	⇐	⇐	⇐	⇐	—
Idle throttle valve position (mm)	1.7	2.0	⇐	2.2	⇐	2.4	—

MAIN JET CHART

Altitude ⇒ Temperature ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 40°C - 40°F	⇐	430	⇐	⇐	⇐	⇐	PTO MAG
- 30°C - 20°F	⇐	420	⇐	⇐	⇐	⇐	PTO MAG
- 20°C - 4°F	⇐	**400**	⇐	⇐	⇐	⇐	**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 column gives factory settings.

SUMMIT 800 HO (R) (Highmark/Highmark X/ Adrenaline/X)

DRIVE PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	⇐	Violet/Yellow 415 015 300	⇐	⇐	⇐	⇐
Ramp	⇐	472 222 548 (415)	⇐	⇐	⇐	⇐
Calibration Screw Position	3	1	2	3	4	5
Pin	417 222 594 (Solid - Long)	417 222 595 (Hollow - Long) 1 x 206 261 299 set screw			417 222 595 (Hollow - Long)	
Engagement RPM (± 100)	⇐	3800	⇐	⇐	⇐	⇐
Maximum RPM (± 100)	⇐	7850	⇐	⇐	⇐	⇐

DRIVEN PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	⇐	Violet 414 978 300	⇐	⇐	⇐	⇐
Spring Tension (kg ± 0.7 lb ± 1.5)	⇐	0.0	⇐	⇐	⇐	⇐
Cam Angle (degrees)	⇐	44° 417 126 445	⇐	⇐	⇐	⇐

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 222 594	Pin (Solid - Long)	3
Refer to last page Chart for Main Jets Part Numbers		

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

NOTE: Shaded column gives factory settings.

NOTE: Carburetion and **Main Jet** Charts shown on next page.

CARBURETION

Altitude ⇒ Calibration ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	⇐	400	⇐	⇐	⇐	⇐	2
Jet needle	⇐	9EGY2-58	⇐	⇐	⇐	⇐	2
Needle position	⇐	3	⇐	⇐	⇐	⇐	—
Slide cut-away	⇐	2.0	⇐	⇐	⇐	⇐	—
Pilot jet	⇐	17.5	⇐	⇐	⇐	⇐	2
Mixture Screw	⇐	1.5	⇐	⇐	⇐	⇐	—
Valve seat	⇐	1.5	⇐	⇐	⇐	⇐	—
Needle jet	⇐	P-0	⇐	⇐	⇐	⇐	2
Float level (mm)	⇐	N.A.	⇐	⇐	⇐	⇐	—
Idle RPM (± 200)	⇐	1500	⇐	⇐	⇐	⇐	—
Idle throttle valve position (mm)	1.7	2.0	⇐	2.2	⇐	2.4	—

MAIN JET CHART

Altitude ⇒ Temperature ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 40°C - 40°F	⇐	430	⇐	⇐	⇐	⇐	PTO MAG
- 30°C - 20°F	⇐	420	⇐	⇐	⇐	⇐	PTO MAG
- 20°C - 4°F	⇐	**400**	⇐	⇐	⇐	⇐	**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 column gives factory settings.

SUMMIT 800 HO (R Sport/Sport)

DRIVE PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	⇐	Violet/Yellow 415 015 300	⇐	⇐	⇐	⇐
Ramp	⇐	472 222 548 (415)	⇐	⇐	⇐	⇐
Calibration Screw Position	3	1	2	3	4	5
Pin	417 222 594 (Solid - Long)	417 222 595 (Hollow - Long) 1 x 206 261 299 set screw			417 222 595 (Hollow - Long)	
Engagement RPM (± 100)	⇐	3800	⇐	⇐	⇐	⇐
Maximum RPM (± 100)	⇐	7850	⇐	⇐	⇐	⇐

DRIVEN PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	⇐	Violet 414 978 300	⇐	⇐	⇐	⇐
Spring Tension (kg ± 0.7 lb ± 1.5)	⇐	0.0	⇐	⇐	⇐	⇐
Cam Angle (degrees)	⇐	44° 417 126 445	⇐	⇐	⇐	⇐

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 222 594	Pin (Solid - Long)	3
Refer to last page Chart for Main Jets Part Numbers		

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

NOTE: Shaded column gives factory settings.

NOTE: Carburetion and **Main Jet** Charts shown on next page.

CARBURETION

Altitude ⇒ Calibration ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	440	420	400	370	350	330	2
Jet needle	9DGI13-58	⇐	⇐	⇐	⇐	⇐	2
Needle position	3	⇐	⇐	2	⇐	⇐	—
Slide cut-away	2.0	⇐	⇐	⇐	⇐	⇐	—
Pilot jet	17.5	⇐	⇐	⇐	⇐	⇐	2
Mixture Screw	1.5	⇐	⇐	⇐	⇐	⇐	—
Valve seat	1.5	⇐	⇐	⇐	⇐	⇐	—
Needle jet	P-0	⇐	⇐	⇐	⇐	⇐	2
Float level (mm)	N.A.	⇐	⇐	⇐	⇐	⇐	—
Idle RPM (± 200)	1500	⇐	⇐	⇐	⇐	⇐	—
Idle throttle valve position (mm)	1.7	2.0	⇐	2.2	⇐	2.4	—

MAIN JET CHART

Altitude ⇒ Temperature ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 40°C - 40°F	470	450	430	400	380	350	PTO MAG
- 30°C - 20°F	460	430	410	390	360	340	PTO MAG
- 20°C - 4°F	440	420	400	370	350	330	**PTO MAG**
- 10°C 14°F	430	410	380	360	340	310	PTO MAG
0°C 32°F	420	390	370	350	320	300	PTO MAG
10°C 50°F	400	380	360	330	310	280	PTO MAG
20°C 70°F	390	370	340	320	290	270	PTO MAG

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

NOTE: Shaded column gives factory settings.

ELITE (SE)

DRIVE PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Red/Yellow 414 817 500	⇐	Red/Red 414 689 800	⇐	⇐	⇐
Ramp	417 222 696 (609)	⇐	417 222 569 (607)	⇐	⇐	⇐
Calibration Screw Position	3	4	2	3	4	5
Pin	417 004 308 (Solid)	⇐	417 222 595 (Hollow - threaded) 1 x 206 261 699 set screw	⇐	⇐	⇐
Engagement RPM (± 100)	2200	⇐	⇐	⇐	⇐	⇐
Maximum RPM (± 100)	7250	⇐	⇐	⇐	⇐	⇐

DRIVEN PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Beige 414 558 900	⇐	⇐	⇐	⇐	⇐
Spring Tension (kg ± 0.7 lb ± 1.5)	7.0 kg 15.4 lb	⇐	⇐	⇐	⇐	⇐
Cam Angle (degrees)	47° – 30° 417 126 843	⇐	44° – 30° 417 126 803	⇐	⇐	⇐

CAUTION: These 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
414 689 800	Spring (Red/Red)	1
417 222 569	Ramp (607)	3
417 222 595	Pin (Hollow)	3
206 261 699	Set Screw	3
417 126 803	Cam (44°/30°)	1

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

NOTE: Shaded column gives factory settings.

LEGEND 800 (R) SDI (SE/SE G.T.) (SE G.T.-Europe)

DRIVE PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Violet/Yellow 415 015 300	⇐	⇐	Blue/Orange 414 639 000	⇐	⇐
Ramp	417 222 546 (414)	⇐	⇐	⇐	⇐	⇐
Calibration Screw Position	3	4	5	3	4	5
Pin	417 004 308 (Solid)	⇐	⇐	417 004 309 (Hollow)	⇐	⇐
Engagement RPM (± 100)	3800	⇐	⇐	4000	⇐	⇐
Maximum RPM (± 100)	7850	⇐	⇐	⇐	⇐	⇐

DRIVEN PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring414 126 687	Black 417 126 687	⇐	⇐	⇐	⇐	⇐
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
414 639 000	Spring (Blue/Orange)	1
417 004 309	Pin (Hollow)	3

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

NOTE: Shaded column gives factory settings.

GSX 600 HO (R) SDI (Limited/Sport)

DRIVE PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Violet/Blue 415 034 900	⇐	⇐	⇐	⇐	⇐
Ramp	417 222 596 (410)	⇐	⇐	⇐	⇐	⇐
Calibration Screw Position	3	4	5	3	4	5
Pin	417 004 308 (Solid)	⇐	⇐	417 222 477 (Hollow with long set screw) 1 x 206 262 099	⇐	⇐
Engagement RPM (± 100)	3800	⇐	⇐	4000	⇐	⇐
Maximum RPM (± 100)	8000	⇐	⇐	⇐	⇐	⇐

DRIVEN PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Black 417 126 687	⇐	⇐	⇐	⇐	⇐
Spring Tension (kg ± 0.7 lb ± 1.5)	0.0	⇐	⇐	⇐	⇐	⇐
Cam Angle (degrees)	47° – 44° (anodized) ➔417 126 385	⇐	⇐	⇐	⇐	⇐

➔**Additional information:** At 1800 m (6000 ft), unscrew red RAVE screw to be flush with RAVE cap and by using B.U.D.S., adjust idle speed screw at 4.1° (± 0.05°).

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 222 477	Pin (Hollow - threaded)	3
206 262 099	Set screw	3

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

NOTE: Shaded column gives factory settings.

MX Z 600 HO (R) SDI (Adrenaline)

DRIVE PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Violet/Blue 415 034 900	⇐	⇐	⇐	⇐	⇐
Ramp	417 222 596 (410)	⇐	⇐	⇐	⇐	⇐
Calibration Screw Position	3	4	5	3	4	5
Pin	417 004 308 (Solid)	⇐	⇐	417 222 477 (Hollow with long set screw) 1 x 206 262 099	⇐	⇐
Engagement RPM (± 100)	3800	⇐	⇐	4000	⇐	⇐
Maximum RPM (± 100)	8000	⇐	⇐	⇐	⇐	⇐

DRIVEN PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Black 417 126 687	⇐	⇐	⇐	⇐	⇐
Spring Tension (kg ± 0.7 lb ± 1.5)	0.0	⇐	⇐	⇐	⇐	⇐
Cam Angle (degrees)	47° – 44° (anodized) 417 126 385	⇐	⇐	⇐	⇐	⇐

➔**Additional information:** At 1800 m (6000 ft), unscrew red RAVE screw to be flush with RAVE cap and by using B.U.D.S., adjust idle speed screw at 4.1° (± 0.05°).
At and above 2400 m (8000 ft) or in deep snow, use 22 teeth sprocket (P/N 504 083 500) chain to get chaincase ratio 22/43.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 222 477	Pin (Hollow - threaded)	3
206 262 099	Set screw	3

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

NOTE: Shaded column gives factory settings.

LEGEND 600 HO (R) SDI (SE/Sport)

DRIVE PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Violet/Blue 415 034 900	⇐	⇐	⇐	⇐	⇐
Ramp	417 222 596 (410)	⇐	⇐	⇐	⇐	⇐
Calibration Screw Position	3	4	5	3	4	5
Pin	417 004 308 (Solid)	⇐	⇐	417 222 477 (Hollow with long set screw) 1 x 206 262 099	⇐	⇐
Engagement RPM (± 100)	3800	⇐	⇐	4000	⇐	⇐
Maximum RPM (± 100)	8000	⇐	⇐	⇐	⇐	⇐

DRIVEN PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Black 417 126 687	⇐	⇐	⇐	⇐	⇐
Spring Tension (kg ± 0.7 lb ± 1.5)	0.0	⇐	⇐	⇐	⇐	⇐
Cam Angle (degrees)	47° – 44° (anodized) ➔417 126 385	⇐	⇐	⇐	⇐	⇐

➔**Additional information:** At 1800 m (6000 ft), unscrew red RAVE screw to be flush with RAVE cap and by using B.U.D.S., adjust idle speed screw at 4.1° (± 0.05°).

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 222 477	Pin (Hollow - threaded)	3
206 262 099	Set screw	3

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

NOTE: Shaded column gives factory settings.

LEGEND 600 HO (R) SDI (SE G.T./Sport G.T.)

DRIVE PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Violet/Blue 415 034 900	⇐	⇐	⇐	⇐	⇐
Ramp	417 222 596 (410)	⇐	⇐	⇐	⇐	⇐
Calibration Screw Position	3	4	5	3	4	5
Pin	417 004 308 (Solid)	⇐	⇐	417 222 477 (Hollow with long set screw) 1 x 206 262 099	⇐	⇐
Engagement RPM (± 100)	3800	⇐	⇐	4000	⇐	⇐
Maximum RPM (± 100)	8000	⇐	⇐	⇐	⇐	⇐

DRIVEN PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Black 417 126 687	⇐	⇐	⇐	⇐	⇐
Spring Tension (kg ± 0.7 lb ± 1.5)	0.0	⇐	⇐	⇐	⇐	⇐
Cam Angle (degrees)	47°—44° (anodized) 417 126 385	⇐	⇐	44° (anodized) 417 126 445	⇐	⇐

➔**Additional information:** At 1800 m (6000 ft), unscrew red RAVE screw to be flush with RAVE cap and by using B.U.D.S., adjust idle speed screw at 4.1° (± 0.05°).

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 222 477	Pin (Hollow - threaded)	3
206 262 099	Set screw	3
417 126 445	Cam (44°)	1

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

NOTE: Shaded column gives factory settings.

MX Z 600 HO (R) SDI (Renegade with 1.25" track)

DRIVE PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Violet/Blue 415 034 900	⇐	⇐	⇐	⇐	⇐
Ramp	417 222 596 (410)	⇐	⇐	⇐	⇐	⇐
Calibration Screw Position	3	4	5	3	4	5
Pin	417 004 308 (Solid)	⇐	⇐	417 222 477 (Hollow with long set screw) 1 x 206 262 099	⇐	⇐
Engagement RPM (± 100)	3800	⇐	⇐	4000	⇐	⇐
Maximum RPM (± 100)	8000	⇐	⇐	⇐	⇐	⇐

DRIVEN PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Black 417 126 687	⇐	⇐	⇐	⇐	⇐
Spring Tension (kg ± 0.7 lb ± 1.5)	0.0	⇐	⇐	⇐	⇐	⇐
Cam Angle (degrees)	47° – 44° (anodized) ➔417 126 385	⇐	⇐	44° (anodized) 417 126 445	⇐	⇐

➔**Additional information:** At 1800 m (6000 ft), unscrew red RAVE screw to be flush with RAVE cap and by using B.U.D.S., adjust idle speed screw at 4.1° (± 0.05°). At and above 2400 m (8000 ft) or in deep snow, use 22 teeth sprocket (P/N 504 083 500) chain to get chaincase ratio of 22/43.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 222 477	Pin (Hollow - threaded)	3
206 262 099	Set screw	3
417 126 445	Cam (44°)	1

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

NOTE: Shaded column gives factory settings.

MX Z 600 HO (R) SDI (Renegade with 1.75" track)

DRIVE PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Violet/Blue 415 034 900	⇐	⇐	⇐	⇐	⇐
Ramp	417 222 596 (410)	⇐	⇐	⇐	⇐	⇐
Calibration Screw Position	3	4	5	3	4	5
Pin	417 004 308 (Solid)	⇐	⇐	417 222 477 (Hollow with long set screw) 1 x 206 262 099	⇐	⇐
Engagement RPM (± 100)	3800	⇐	⇐	4000	⇐	⇐
Maximum RPM (± 100)	8000	⇐	⇐	⇐	⇐	⇐

DRIVEN PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Black 417 126 687	⇐	⇐	⇐	⇐	⇐
Spring Tension (kg ± 0.7 lb ± 1.5)	0.0	⇐	⇐	⇐	⇐	⇐
Cam Angle (degrees)	44° (anodized) 417 126 445	⇐	⇐	⇐	⇐	⇐

➔**Additional information:** At 1800 m (6000 ft), unscrew red RAVE screw to be flush with RAVE cap and by using B.U.D.S., adjust idle speed screw at 4.1° (± 0.05°). At and above 2400 m (8000 ft) or in deep snow, use 22 teeth sprocket (P/N 504 083 500) chain to get chaincase ratio of 22/43.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 222 477	Pin (Hollow - threaded)	3
206 262 099	Set screw	3

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

NOTE: Shaded column gives factory settings.

LEGEND 700 (R)
(SE/Sport/SE G.T./Sport G.T.)

DRIVE PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Blue/Yellow 414 689 500	⇐	⇐	⇐	⇐	⇐
Ramp	417 222 372 (299)	⇐	⇐	⇐	⇐	⇐
Calibration Screw Position	3	4	5	3	4	6
Pin	417 004 308 (Solid)	⇐	⇐	417 004 309 (Hollow)	⇐	⇐
Engagement RPM (± 100)	3600	⇐	⇐	⇐	⇐	⇐
Maximum RPM (± 100)	8000	⇐	⇐	⇐	⇐	⇐

DRIVEN PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Violet 414 978 300	⇐	⇐	⇐	⇐	⇐
Spring Tension (kg ± 0.7 lb ± 1.5)	N.A.	⇐	⇐	⇐	⇐	⇐
Cam Angle (degrees)	47° 417 126 577	⇐	⇐	⇐	⇐	⇐

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 004 309	Pin (Hollow)	3
404 161 976	Jet Needle (9ZLY4–58)	2
Refer to last page Chart for Main Jets Part Numbers		

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

NOTE: Shaded column gives factory settings.

NOTE: Carburetion and **Main Jet** Charts shown on next page.

CARBURETION

Altitude ⇒ Calibration ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	510N	480	450	410	380	340	2
Jet needle	9ZLY3–58	⇐	⇐	9ZLY4-58	⇐	⇐	2
Needle position	N.A.	⇐	⇐	⇐	⇐	⇐	—
Slide cut-away	2.0	⇐	⇐	⇐	⇐	⇐	—
Pilot jet	17.5	⇐	⇐	⇐	⇐	⇐	2
Mixture Screw	1.5	⇐	⇐	⇐	⇐	⇐	—
Valve seat	1.5	⇐	⇐	⇐	⇐	⇐	—
Needle jet	P-0	⇐	⇐	⇐	⇐	⇐	2
Float level (mm)	N.A.	⇐	⇐	⇐	⇐	⇐	—
Idle RPM (± 200)	1500	⇐	⇐	⇐	⇐	⇐	—
Idle throttle valve position (mm)	1.5	1.6	1.7	⇐	1.8	1.9	—

MAIN JET CHART

Altitude ⇒ Temperature ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 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 column gives factory settings.

SUMMIT 800 HO (R) (X-Europe)

DRIVE PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Violet/Yellow 415 015 300	⇐	⇐	⇐	⇐	⇐
Ramp	417 222 508 (413)	472 222 548 (415)	⇐	⇐	⇐	⇐
Calibration Screw Position	3	1	2	3	4	5
Pin	417 222 594 (Solid - Long)	417 222 595 (Hollow - Long) 1 x 206 261 299 set screw			417 222 595 (Hollow - Long)	
Engagement RPM (± 100)	3800	⇐	⇐	⇐	⇐	⇐
Maximum RPM (± 100)	7850	⇐	⇐	⇐	⇐	⇐

DRIVEN PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Black 417 126 687	⇐	⇐	⇐	⇐	⇐
Spring Tension (kg ± 0.7 lb ± 1.5)	0.0	⇐	⇐	⇐	⇐	⇐
Cam Angle (degrees)	44° – 40° 417 126 593	⇐	⇐	⇐	⇐	⇐

Additional Information: At and above 2400 m (8000 ft) or in deep snow, use 24 tooth sprocket (P/N 504 139 700), 74 link chain, 13 wide (P/N 504 151 857).

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
472 222 548	Ramp (415)	3
417 222 595	Pin (Hollow - Long)	3
206 261 299	Set Screw	3
Refer to last page Chart for Main Jets Part Numbers		

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

NOTE: Shaded column gives factory settings.

NOTE: Carburetion and **Main Jet** Charts shown on next page.

CARBURETION

Altitude ⇒ Calibration ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	400	⇐	⇐	⇐	⇐	⇐	2
Jet needle	9EGY2–58	⇐	⇐	⇐	⇐	⇐	2
Needle position	3	⇐	⇐	⇐	⇐	⇐	—
Slide cut-away	2.0	⇐	⇐	⇐	⇐	⇐	—
Pilot jet	17.5	⇐	⇐	⇐	⇐	⇐	2
Mixture Screw	1.5	⇐	⇐	⇐	⇐	⇐	—
Valve seat	1.5	⇐	⇐	⇐	⇐	⇐	—
Needle jet	P-0	⇐	⇐	⇐	⇐	⇐	2
Float level (mm)	N.A.	⇐	⇐	⇐	⇐	⇐	—
Idle RPM (± 200)	1500	⇐	⇐	⇐	⇐	⇐	—
Idle throttle valve position (mm)	1.7	2.0	⇐	2.2	⇐	2.4	—

MAIN JET CHART

Altitude ⇒ Temperature ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 40°C - 40°F	430	⇐	⇐	⇐	⇐	⇐	PTO MAG
- 30°C - 20°F	420	⇐	⇐	⇐	⇐	⇐	PTO MAG
- 20°C - 4°F	**400**	⇐	⇐	⇐	⇐	⇐	**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 column gives factory settings.

GSX 600 HO (R) (Sport)

DRIVE PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Violet/Blue 415 034 900	⇐	⇐	Green/Blue 414 768 200	⇐	⇐
Ramp	417 222 596 (410)	⇐	⇐	⇐	⇐	⇐
Calibration Screw Position	3	4	5	3	4	5
Pin	417 004 308 (Solid)	417 222 477 (Hollow) 4 x 206 260 699 set screw			⇐	⇐
Engagement RPM (± 100)	3800	3900	4000	4100	⇐	4200
Maximum RPM (± 100)	8000	⇐	⇐	⇐	⇐	⇐

DRIVEN PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Black 417 126 687	⇐	⇐	⇐	⇐	⇐
Spring Tension (kg ± 0.7 lb ± 1.5)	0.0	⇐	⇐	⇐	⇐	⇐
Cam Angle (degrees)	47° – 44° 417 126 385	⇐	⇐	44° 417 126 445	⇐	⇐

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

NOTE: Carburetion and **Main Jet** Charts shown on next page.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
414 768 200	Spring (Green/Blue)	1
417 222 477	Pin (Hollow - threaded)	3
206 260 699	Set Screw	3
417 126 445	Cam (44°)	1
404 162 016	Jet Needle (9DHI12–58)	2
Refer to last page Chart for Main Jets Part Numbers		

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

NOTE: Shaded column gives factory settings.

CARBURETION

Altitude ⇒ Calibration ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	380	360	340	320	290	270	2
Jet needle	9DHI13–58	⇐	⇐	9DHI12–58	⇐	⇐	2
Needle position	N.A.	⇐	⇐	2	⇐	⇐	—
Slide cut-away	2.0	⇐	⇐	⇐	⇐	⇐	—
Pilot jet	17.5	⇐	⇐	⇐	⇐	⇐	2
Mixture Screw	1.5	⇐	⇐	⇐	⇐	⇐	—
Valve seat	1.5	⇐	⇐	⇐	⇐	⇐	—
Needle jet	P-0	⇐	⇐	⇐	⇐	⇐	2
Float level (mm)	N.A.	⇐	⇐	⇐	⇐	⇐	—
Idle RPM (± 200)	1600	⇐	⇐	⇐	⇐	⇐	—
Idle throttle valve position (mm)	1.6	⇐	1.7	⇐	1.8	⇐	—

MAIN JET CHART

Altitude ⇒ Temperature ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 40°C - 40°F	410	390	370	340	320	300	PTO MAG
- 30°C - 20°F	400	370	350	330	300	280	PTO MAG
- 20°C - 4°F	**380**	360	340	320	290	270	**PTO MAG**
- 10°C 14°F	370	340	320	300	280	250	PTO MAG
0°C 32°F	350	330	300	280	260	250	PTO MAG
10°C 50°F	340	320	290	270	250	220	PTO MAG
20°C 70°F	320	300	280	250	230	210	PTO MAG

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

NOTE: Shaded column gives factory settings.

MX Z 600 HO (R) (Adrenaline/Trail/X)

DRIVE PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Violet/Blue 415 034 900	⇐	⇐	Green/Blue 414 768 200	⇐	⇐
Ramp	417 222 596 (410)	⇐	⇐	⇐	⇐	⇐
Calibration Screw Position	3	4	5	3	4	5
Pin	417 004 308 (Solid)	417 222 477 (Hollow) 4 x 206 260 699 set screw			⇐	⇐
Engagement RPM (± 100)	3800	3900	4000	4100	⇐	4200
Maximum RPM (± 100)	8000	⇐	⇐	⇐	⇐	⇐

DRIVEN PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Black 417 126 687	⇐	⇐	⇐	⇐	⇐
Spring Tension (kg ± 0.7 lb ± 1.5)	0.0	⇐	⇐	⇐	⇐	⇐
Cam Angle (degrees)	47° – 44° 417 126 385	⇐	⇐	44° 417 126 445	⇐	⇐

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
414 768 200	Spring (Green/Blue)	1
417 222 477	Pin (Hollow - threaded)	3
206 260 699	Set Screw	3
417 126 445	Cam (44°)	1
404 162 016	Jet Needle (9DHI12–58)	2
Refer to last page Chart for Main Jets Part Numbers		

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

NOTE: Shaded column gives factory settings.

NOTE: Carburetion and **Main Jet** Charts shown on next page.

CARBURETION

Altitude ⇒ Calibration ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	380	360	340	320	290	270	2
Jet needle	9DHI13–58	⇐	⇐	9DHI12–58	⇐	⇐	2
Needle position	3	⇐	⇐	2	⇐	⇐	—
Slide cut-away	2.0	⇐	⇐	⇐	⇐	⇐	—
Pilot jet	17.5	⇐	⇐	⇐	⇐	⇐	2
Mixture Screw	1.5	⇐	⇐	⇐	⇐	⇐	—
Valve seat	1.5	⇐	⇐	⇐	⇐	⇐	—
Needle jet	P-0	⇐	⇐	⇐	⇐	⇐	2
Float level (mm)	N.A.	⇐	⇐	⇐	⇐	⇐	—
Idle RPM (± 200)	1600	⇐	⇐	⇐	⇐	⇐	—
Idle throttle valve position (mm)	1.6	⇐	1.7	⇐	1.8	⇐	—

MAIN JET CHART

Altitude ⇒ Temperature ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 40°C - 40°F	410	390	370	340	320	300	PTO MAG
- 30°C - 20°F	400	370	350	330	300	280	PTO MAG
- 20°C - 4°F	**380**	360	340	320	290	270	**PTO MAG**
- 10°C 14°F	370	340	320	300	280	250	PTO MAG
0°C 32°F	350	330	300	280	260	250	PTO MAG
10°C 50°F	340	320	290	270	250	220	PTO MAG
20°C 70°F	320	300	280	250	230	210	PTO MAG

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

NOTE: Shaded column gives factory settings.

MX Z 600 HO (R)
(Renegade X(non DPM))

DRIVE PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Violet/Blue 415 034 900	⇐	⇐	Green/White 417 222 371	⇐	⇐
Ramp	417 222 515 (412)	⇐	⇐	417 222 552 (417)	⇐	⇐
Calibration Screw Position	3	⇐	4	5	3	4
Pin	417 004 308 (Solid)	⇐	⇐	⇐	⇐	⇐
Engagement RPM (± 100)	3800	⇐	3900	⇐	4000	4100
Maximum RPM (± 100)	8000	⇐	⇐	⇐	⇐	⇐

DRIVEN PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Black 417 126 687	⇐	⇐	⇐	⇐	⇐
Spring Tension (kg ± 0.7 lb ± 1.5)	0.0	⇐	⇐	⇐	⇐	⇐
Cam Angle (degrees)	47° – 40° (anodized) 417 126 724	⇐	⇐	⇐	47°—44° (anodized) 417 126 385	⇐

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
417 222 371	Spring (Green/White)	1
417 222 552	Ramp (417)	3
417 126 385	Cam (47°–44°)	1
404 162 016	Jet Needle (9DHI12–58)	2
Refer to last page Chart for Main Jets Part Numbers		

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

NOTE: Shaded column gives factory settings.

NOTE: Carburetion and **Main Jet** Charts shown on next page.

CARBURETION

Altitude ⇒ Calibration ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	380	360	340	320	290	270	2
Jet needle	9DHI13–58	⇐	⇐	9DHI12–58	⇐	⇐	2
Needle position	3	⇐	⇐	2	⇐	⇐	—
Slide cut-away	2.0	⇐	⇐	⇐	⇐	⇐	—
Pilot jet	17.5	⇐	⇐	⇐	⇐	⇐	2
Mixture Screw	1.5	⇐	⇐	⇐	⇐	⇐	—
Valve seat	1.5	⇐	⇐	⇐	⇐	⇐	—
Needle jet	P-0	⇐	⇐	⇐	⇐	⇐	2
Float level (mm)	N.A.	⇐	⇐	⇐	⇐	⇐	—
Idle RPM (± 200)	1600	⇐	⇐	⇐	⇐	⇐	—
Idle throttle valve position (mm)	1.6	⇐	1.7	⇐	1.8	⇐	—

MAIN JET CHART

Altitude ⇒ Temperature ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 40°C - 40°F	410	390	370	340	320	300	PTO MAG
- 30°C - 20°F	400	370	350	330	300	280	PTO MAG
- 20°C - 4°F	**380**	360	340	320	290	270	**PTO MAG**
- 10°C 14°F	370	340	320	300	280	250	PTO MAG
0°C 32°F	350	330	300	280	260	250	PTO MAG
10°C 50°F	340	320	290	270	250	220	PTO MAG
20°C 70°F	320	300	280	250	230	210	PTO MAG

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

NOTE: Shaded column gives factory settings.

MX Z 600 HO (R) (Renegade (with DPM))

DRIVE PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Violet/Blue 415 034 900	⇐	⇐	Green/White 417 222 371	⇐	⇐
Ramp	417 222 515 (412)	⇐	⇐	417 222 552 (417)	⇐	⇐
Calibration Screw Position	3	⇐	4	5	3	4
Pin	417 004 308 (Solid)	⇐	⇐	⇐	⇐	⇐
Engagement RPM (± 100)	3800	⇐	3900	⇐	4000	4100
Maximum RPM (± 100)	8000	⇐	⇐	⇐	⇐	⇐

DRIVEN PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Black 417 126 687	⇐	⇐	⇐	⇐	⇐
Spring Tension (kg ± 0.7 lb ± 1.5)	0.0	⇐	⇐	⇐	⇐	⇐
Cam Angle (degrees)	47° – 40° (anodized) 417 126 724	⇐	⇐	⇐	47°—44° (anodized) 417 126 385	⇐

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
417 222 371	Spring (Green/White)	1
417 222 552	Ramp (417)	3
417 126 385	Cam (47° – 44°)	1
Refer to last page Chart for Main Jets Part Numbers		

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

NOTE: Shaded column gives factory settings.

NOTE: Carburetion and **Main Jet** Charts shown on next page.

CARBURETION

Altitude ⇒ Calibration ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	380	⇐	⇐	⇐	⇐	⇐	2
Jet needle	9DHI13–58	⇐	⇐	⇐	⇐	⇐	2
Needle position	3	⇐	⇐	⇐	⇐	⇐	—
Slide cut-away	2.0	⇐	⇐	⇐	⇐	⇐	—
Pilot jet	17.5	⇐	⇐	⇐	⇐	⇐	2
Mixture Screw	1.5	⇐	⇐	⇐	⇐	⇐	—
Valve seat	1.5	⇐	⇐	⇐	⇐	⇐	—
Needle jet	P-0	⇐	⇐	⇐	⇐	⇐	2
Float level (mm)	N.A.	⇐	⇐	⇐	⇐	⇐	—
Idle RPM (± 200)	1600	⇐	⇐	⇐	⇐	⇐	—
Idle throttle valve position (mm)	1.6	⇐	1.7	⇐	1.8	⇐	—

MAIN JET CHART

Altitude ⇒ Temperature ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 40°C - 40°F	410	390	⇐	⇐	⇐	⇐	PTO MAG
- 30°C - 20°F	400	⇐	⇐	⇐	⇐	⇐	PTO MAG
- 20°C - 4°F	**380**	⇐	⇐	⇐	⇐	⇐	**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 column gives factory settings.

SUMMIT 600 HO (R) (X/Adrenaline)

DRIVE PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	⇐	Violet/White 417 222 703	⇐	⇐	⇐	⇐
Ramp	⇐	417 222 552 (417)	⇐	⇐	⇐	⇐
Calibration Screw Position	3	1	3	4	4	5
Pin	417 004 308 (Solid)	417 222 477 (Hollow) 1 x 206 262 099 set screw			417 222 477 (Hollow)	
Engagement RPM (± 100)	⇐	3600	⇐	⇐	⇐	⇐
Maximum RPM (± 100)	⇐	8000	⇐	⇐	⇐	⇐

DRIVEN PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	⇐	Red 417 126 686	⇐	⇐	⇐	⇐
Spring Tension (kg ± 0.7 lb ± 1.5)	⇐	0.0	⇐	⇐	⇐	⇐
Cam Angle (degrees)	⇐	47°—44° 417 126 385	⇐	⇐	⇐	⇐

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
417 004 308	Pin (Solid)	3
Refer to last page Chart for Main Jets Part Numbers		

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

NOTE: Shaded column gives factory settings.

NOTE: **Carburetion** and **Main Jet** Charts shown on next page.

CARBURETION

Altitude ⇒ Calibration ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	⇐	380	⇐	⇐	⇐	⇐	2
Jet needle	⇐	9DGK11–58	⇐	⇐	⇐	⇐	2
Needle position	⇐	3	⇐	⇐	⇐	⇐	—
Slide cut-away	⇐	2.0	⇐	⇐	⇐	⇐	—
Pilot jet	⇐	17.5	⇐	⇐	⇐	⇐	2
Mixture Screw	⇐	1.5	⇐	⇐	⇐	⇐	—
Valve seat	⇐	1.5	⇐	⇐	⇐	⇐	—
Needle jet	⇐	P-0	⇐	⇐	⇐	⇐	2
Float level (mm)	⇐	N.A.	⇐	⇐	⇐	⇐	—
Idle RPM (± 200)	⇐	1600	⇐	⇐	⇐	⇐	—
Idle throttle valve position (mm)	1.6	2.0	⇐	2.1	2.2	⇐	—

MAIN JET CHART

Altitude ⇒ Temperature ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 40°C - 40°F	⇐	410	⇐	⇐	⇐	⇐	PTO MAG
- 30°C - 20°F	⇐	390	⇐	⇐	⇐	⇐	PTO MAG
- 20°C - 4°F	⇐	**380**	⇐	⇐	⇐	⇐	**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 column gives factory settings.

SUMMIT 600 HO (R) (Adrenaline-Europe)

DRIVE PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Green/White 417 222 371	⇐	⇐	⇐	⇐	⇐
Ramp	417 222 515 (412)	⇐	⇐	417 222 552 (417)	⇐	⇐
Calibration Screw Position	3	4	5	3	4	5
Pin	417 004 308 (Solid)	417 222 477 (Hollow)			⇐	⇐
Engagement RPM (± 100)	3600	⇐	⇐	⇐	⇐	⇐
Maximum RPM (± 100)	8000	⇐	⇐	⇐	⇐	⇐

DRIVEN PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Black 417 126 687	⇐	⇐	⇐	⇐	⇐
Spring Tension (kg ± 0.7 lb ± 1.5)	0.0	⇐	⇐	⇐	⇐	⇐
Cam Angle (degrees)	47° – 40° 417 126 724	⇐	⇐	⇐	⇐	⇐

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
417 222 552	Ramp (417)	3
417 222 477	Pin (Hollow)	3
Refer to last page Chart for Main Jets Part Numbers		

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

NOTE: Shaded column gives factory settings.

NOTE: Carburetion and **Main Jet** Charts shown on next page.

CARBURETION

Altitude ⇒ Calibration ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	380	⇐	⇐	⇐	⇐	⇐	2
Jet needle	9DGK11–58	⇐	⇐	⇐	⇐	⇐	2
Needle position	3	⇐	⇐	⇐	⇐	⇐	—
Slide cut-away	2.0	⇐	⇐	⇐	⇐	⇐	—
Pilot jet	17.5	⇐	⇐	⇐	⇐	⇐	2
Mixture Screw	1.5	⇐	⇐	⇐	⇐	⇐	—
Valve seat	1.5	⇐	⇐	⇐	⇐	⇐	—
Needle jet	P-0	⇐	⇐	⇐	⇐	⇐	2
Float level (mm)	N.A.	⇐	⇐	⇐	⇐	⇐	—
Idle RPM (± 200)	1600	⇐	⇐	⇐	⇐	⇐	—
Idle throttle valve position (mm)	1.6	2.0	⇐	2.1	2.2	⇐	—

MAIN JET CHART

Altitude ⇒ Temperature ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 40°C - 40°F	410	⇐	⇐	⇐	⇐	⇐	PTO MAG
- 30°C - 20°F	390	⇐	⇐	⇐	⇐	⇐	PTO MAG
- 20°C - 4°F	380	⇐	⇐	⇐	⇐	⇐	**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 column gives factory settings.

SKANDIC 600 (R) (SUV/WT LC)

DRIVE PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Yellow/Red 414 993 000	⇐	⇐	⇐	⇐	⇐
Ramp	417 222 444 (600)	⇐	⇐	⇐	⇐	⇐
Calibration Screw Position	3	4	5	2	3	4
Pin	417 222 594 (Solid-Long)	⇐	⇐	417 222 595 (Hollow-threaded) 1 x 206 262 099 set screw	⇐	⇐
Engagement RPM (± 100)	2800	⇐	⇐	3000	⇐	⇐
Maximum RPM (± 100)	7100	⇐	⇐	⇐	⇐	⇐

DRIVEN PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Blue ACS 3–188 (417 119 100)	⇐	⇐	⇐	⇐	⇐
Spring Tension (kg ± 0.7 lb ± 1.5)	7.0 kg 15.4 lb	⇐	⇐	⇐	⇐	⇐
Cam Angle (degrees)	35°—30°	⇐	⇐	⇐	⇐	⇐

CAUTION: These 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
417 222 595	Pin (Hollow - threaded)	3
206 262 099	Set Screw	3
Refer to last page Chart for Main Jets Part Numbers		

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

NOTE: Shaded column gives factory settings.

NOTE: **Carburetion** and **Main Jet** Charts shown on next page.

CARBURETION

Altitude ⇒ Calibration ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	330	300	280	250	230	200	2
Jet needle	6DGL24	⇐	⇐	⇐	⇐	⇐	2
Needle position	3	⇐	⇐	⇐	⇐	⇐	—
Slide cut-away	2.5	⇐	⇐	⇐	⇐	⇐	—
Pilot jet	40	⇐	⇐	⇐	⇐	⇐	2
Mixture Screw	2.0	⇐	⇐	⇐	1.5	⇐	—
Valve seat	1.5	⇐	⇐	⇐	⇐	⇐	—
Needle jet	480–P9	⇐	⇐	⇐	⇐	⇐	2
Float level (mm)	18.1	⇐	⇐	⇐	⇐	⇐	—
Idle RPM (± 200)	1900	⇐	⇐	⇐	⇐	⇐	—
Idle throttle valve position (mm)	1.5	1.6	1.7	1.8	1.9	2.0	—

MAIN JET CHART

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

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

NOTE: Shaded column gives factory settings.

GSX 500 SS (R) (Sport)

DRIVE PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Green/White 417 222 371	⇐	⇐	⇐	Pink/White 414 991 400	⇐
Ramp	417 222 515 (412)	⇐	⇐	⇐	⇐	⇐
Calibration Screw Position	3	3	4	5	4	4
Pin	417 004 308 (Solid)	⇐	⇐	⇐	417 004 309 (Hollow)	⇐
Engagement RPM (± 100)	3800	⇐	3900	⇐	4100	⇐
Maximum RPM (± 100)	8000	⇐	⇐	⇐	⇐	⇐

DRIVEN PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Green/Green 417 126 801	⇐	⇐	⇐	⇐	⇐
Spring Tension (kg ± 0.7 lb ± 1.5)	0.0	⇐	⇐	⇐	⇐	⇐
Cam Angle (degrees)	44° 417 126 747	⇐	⇐	⇐	⇐	⇐

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

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
414 991 400	Spring (Pink/White)	1
417 004 309	Pin (Hollow)	3
Refer to last page Chart for Main Jets Part Numbers		

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

NOTE: Shaded column gives factory settings.

NOTE: Carburetion and **Main Jet** Charts shown on next page.

CARBURETION

Altitude ⇒ Calibration ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	360	340	320	300	280	250	2
Jet needle	9DGM09–58	⇐	⇐	⇐	⇐	⇐	2
Needle position	N.A.	⇐	⇐	⇐	⇐	⇐	—
Slide cut-away	2.0	⇐	⇐	⇐	⇐	⇐	—
Pilot jet	17.5	⇐	⇐	⇐	⇐	⇐	2
Mixture Screw	1.5	⇐	⇐	2.0	⇐	⇐	—
Valve seat	1.5	⇐	⇐	⇐	⇐	⇐	—
Needle jet	P-0	⇐	⇐	⇐	⇐	⇐	2
Float level (mm)	N.A.	⇐	⇐	⇐	⇐	⇐	—
Idle RPM (± 200)	1600	⇐	⇐	⇐	⇐	⇐	—
Idle throttle valve position (mm)	1.4	1.5	1.6	1.7	1.8	⇐	—

MAIN JET CHART

Altitude ⇒ Temperature ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 40°C - 40°F	390	370	350	330	300	280	PTO MAG
- 30°C - 20°F	380	350	330	310	290	270	PTO MAG
- 20°C - 4°F	**360**	340	320	300	280	250	**PTO MAG**
- 10°C 14°F	350	330	300	280	260	240	PTO MAG
0°C 32°F	330	310	290	270	250	230	PTO MAG
10°C 50°F	320	300	270	250	230	210	PTO MAG
20°C 70°F	300	280	260	240	220	200	PTO MAG

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

NOTE: Shaded column gives factory settings.

MX Z 500 SS (R) (Adrenaline/Trail)

DRIVE PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Green/White 417 222 371	⇐	⇐	⇐	Pink/White 414 991 400	⇐
Ramp	417 222 515 (412)	⇐	⇐	⇐	⇐	⇐
Calibration Screw Position	3	3	4	5	4	4
Pin	417 004 308 (Solid)	⇐	⇐	⇐	417 004 309 (Hollow)	⇐
Engagement RPM (± 100)	3800	⇐	3900	⇐	4100	⇐
Maximum RPM (± 100)	8000	⇐	⇐	⇐	⇐	⇐

DRIVEN PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Green/Green 417 126 801	⇐	⇐	⇐	⇐	⇐
Spring Tension (kg ± 0.7 lb ± 1.5)	0.0	⇐	⇐	⇐	⇐	⇐
Cam Angle (degrees)	44° 417 126 747	⇐	⇐	⇐	⇐	⇐

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
414 991 400	Spring (Pink/White)	1
417 004 309	Pin (Hollow)	3
Refer to last page Chart for Main Jets Part Numbers		

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

NOTE: Shaded column gives factory settings.

NOTE: **Carburetion** and **Main Jet** Charts shown on next page.

CARBURETION

Altitude ⇒ Calibration ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	360	340	320	300	280	250	2
Jet needle	9DGM09–58	⇐	⇐	⇐	⇐	⇐	2
Needle position	N.A.	⇐	⇐	⇐	⇐	⇐	—
Slide cut-away	2.0	⇐	⇐	⇐	⇐	⇐	—
Pilot jet	17.5	⇐	⇐	⇐	⇐	⇐	2
Mixture Screw	1.5	⇐	⇐	2.0	⇐	⇐	—
Valve seat	1.5	⇐	⇐	⇐	⇐	⇐	—
Needle jet	P-0	⇐	⇐	⇐	⇐	⇐	2
Float level (mm)	N.A.	⇐	⇐	⇐	⇐	⇐	—
Idle RPM (± 200)	1600	⇐	⇐	⇐	⇐	⇐	—
Idle throttle valve position (mm)	1.4	1.5	1.6	1.7	1.8	⇐	—

MAIN JET CHART

Altitude ⇒ Temperature ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 40°C - 40°F	390	370	350	330	300	280	PTO MAG
- 30°C - 20°F	380	350	330	310	290	270	PTO MAG
- 20°C - 4°F	**360**	340	320	300	280	250	**PTO MAG**
- 10°C 14°F	350	330	300	280	260	240	PTO MAG
0°C 32°F	330	310	290	270	250	230	PTO MAG
10°C 50°F	320	300	270	250	230	210	PTO MAG
20°C 70°F	300	280	260	240	220	200	PTO MAG

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

NOTE: Shaded column gives factory settings.

MX Z 500 SS (Trail (non RER))

DRIVE PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Green/White 417 222 371	⇐	⇐	⇐	Pink/White 414 991 400	⇐
Ramp	417 222 515 (412)	⇐	⇐	⇐	⇐	⇐
Calibration Screw Position	3	3	4	5	4	4
Pin	417 004 308 (Solid)	⇐	⇐	⇐	417 004 309 (Hollow)	⇐
Engagement RPM (± 100)	3800	⇐	3900	⇐	4100	⇐
Maximum RPM (± 100)	8000	⇐	⇐	⇐	⇐	⇐

DRIVEN PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Beige	⇐	⇐	⇐	⇐	⇐
Spring Tension (kg ± 0.7 lb ± 1.5)	8.9 – 8.0 kg 19.6 – 17.6 lb	⇐	⇐	⇐	⇐	⇐
Cam Angle (degrees)	44° 417 126 747	⇐	⇐	⇐	⇐	⇐

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

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
414 991 400	Spring (Pink/White)	1
417 004 309	Pin (Hollow)	3
Refer to last page Chart for Main Jets Part Numbers		

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

NOTE: Shaded column gives factory settings.

NOTE: Carburetion and **Main Jet** Charts shown on next page.

CARBURETION

Altitude ⇒ Calibration ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	360	340	320	300	280	250	2
Jet needle	9DGM09–58	⇐	⇐	⇐	⇐	⇐	2
Needle position	N.A.	⇐	⇐	⇐	⇐	⇐	—
Slide cut-away	2.0	⇐	⇐	⇐	⇐	⇐	—
Pilot jet	17.5	⇐	⇐	⇐	⇐	⇐	2
Mixture Screw	1.5	⇐	⇐	2.0	⇐	⇐	—
Valve seat	1.5	⇐	⇐	⇐	⇐	⇐	—
Needle jet	P-0	⇐	⇐	⇐	⇐	⇐	2
Float level (mm)	N.A.	⇐	⇐	⇐	⇐	⇐	—
Idle RPM (± 200)	1600	⇐	⇐	⇐	⇐	⇐	—
Idle throttle valve position (mm)	1.4	1.5	1.6	1.7	1.8	⇐	—

MAIN JET CHART

Altitude ⇒ Temperature ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 40°C - 40°F	390	370	350	330	300	280	PTO MAG
- 30°C - 20°F	380	350	330	310	290	270	PTO MAG
- 20°C - 4°F	**360**	340	320	300	280	250	**PTO MAG**
- 10°C 14°F	350	330	300	280	260	240	PTO MAG
0°C 32°F	330	310	290	270	250	230	PTO MAG
10°C 50°F	320	300	270	250	230	210	PTO MAG
20°C 70°F	300	280	260	240	220	200	PTO MAG

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

NOTE: Shaded column gives factory settings.

LEGEND 500 SS (R) (Sport/Sport G.T.)

DRIVE PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Violet/Violet 414 817 900	⇐	⇐	Green/Blue 414 768 200	⇐	⇐
Ramp	417 222 372 (299)	⇐	⇐	⇐	⇐	⇐
Calibration Screw Position	3	4	5	3	4	5
Pin	417 004 308 (Solid)	⇐	⇐	417 004 309 (Hollow)	⇐	⇐
Engagement RPM (± 100)	3600	⇐	⇐	4300	⇐	⇐
Maximum RPM (± 100)	8000	⇐	⇐	⇐	⇐	⇐

DRIVEN PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Violet 414 978 300	⇐	⇐	⇐	⇐	⇐
Spring Tension (kg ± 0.7 lb ± 1.5)	N.A.	⇐	⇐	⇐	⇐	⇐
Cam Angle (degrees)	47° (anodized) 417 126 577	⇐	⇐	⇐	⇐	⇐

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

NOTE: Carburetion and **Main Jet** Charts shown on next page.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
414 768 200	Spring (Green/Blue)	1
417 004 309	Pin (Hollow)	3
404 161 992	Jett Needle (9HGY4–58)	2
Refer to last page Chart for Main Jets Part Numbers		

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

NOTE: Shaded column gives factory settings.

CARBURETION

Altitude ⇒ Calibration ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	500	470	440	420	390	360	2
Jet needle	9HGY1–58	⇐	⇐	9HGY4–58	⇐	⇐	2
Needle position	N.A.	⇐	⇐	⇐	⇐	⇐	—
Slide cut-away	2.0	⇐	⇐	⇐	⇐	⇐	—
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 ⇒ Temperature ⇓	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	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 column gives factory settings.

MX Z 550 F (R)

DRIVE PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Violet/Yellow 415 015 300	⇐	⇐	⇐	⇐	⇐
Block (Bombardier Lite)	417 118 100	⇐	⇐	⇐	⇐	⇐
Weight (Bombardier Lite) **refer to photo on page 2**	1 x 417 120 400 3 x 417 114 400	1 x 417 120 400 2 x 417 114 400	1 x 417 120 400 1 x 417 114 400	1 x 417 120 400	5 x 417 114 400	3 x 417 114 400
Capsule (Bombardier Lite)	1 x 417 114 500	⇐	⇐	⇐	⇐	⇐
Engagement RPM (± 100)	3500	⇐	3600	3700	3800	⇐
Maximum RPM (± 100)	6950	⇐	⇐	⇐	⇐	⇐

DRIVEN PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	White 505 152 070	⇐	⇐	⇐	⇐	⇐
Spring Tension (kg ± 0.7 lb ± 1.5)	0.0 Position 3	⇐	⇐	⇐	⇐	⇐
Cam Angle (degrees)	50° – 47° 417 126 587	⇐	⇐	⇐	⇐	⇐

Additional Information: At and above 2400 m (8000 ft) connect reverse connector (P/N 515 174 700) to E-box.

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

NOTE: Carburetion and **Main Jet** Charts shown on next page.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 114 400	Weight	1
Refer to last page Chart for Main Jets Part Numbers		

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

NOTE: Shaded column gives factory settings.

CARBURETION

Altitude ⇒ Calibration ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	250	240	230	210	180	165	2
Jet needle	6BCY40	⇐	⇐	⇐	⇐	⇐	2
Needle position	4	⇐	⇐	3	⇐	⇐	—
Slide cut-away	2.5	⇐	⇐	⇐	⇐	⇐	—
Pilot jet	40	⇐	⇐	⇐	⇐	⇐	2
Mixture Screw	2.0	⇐	⇐	⇐	1.5	1.0	—
Valve seat	1.2	⇐	⇐	⇐	⇐	⇐	—
Needle jet	P8 (159)	⇐	⇐	⇐	⇐	⇐	2
Float level (mm)	23.9	⇐	⇐	⇐	⇐	⇐	—
Idle RPM (± 200)	1650	⇐	⇐	⇐	⇐	⇐	—
Idle throttle valve position (mm)	1.6	1.7	1.8	1.9	2.1	2.4	—

MAIN JET CHART

Altitude ⇒ Temperature ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 40°C - 40°F	260	250	240	220	190	175	PTO MAG
- 30°C - 20°F	255	245	235	215	185	170	PTO MAG
- 20°C - 4°F	**250**	240	230	210	180	165	**PTO MAG**
- 10°C 14°F	245	235	225	205	175	160	PTO MAG
0°C 32°F	240	230	220	200	170	155	PTO MAG
10°C 50°F	235	225	215	195	165	150	PTO MAG
20°C 70°F	230	220	210	190	160	145	PTO MAG

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

NOTE: Shaded column gives factory settings.

LEGEND 550 F (R)

DRIVE PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Violet/Yellow 415 015 300	⇐	⇐	⇐	⇐	⇐
Block (Bombardier Lite)	417 118 100	⇐	⇐	⇐	⇐	⇐
Weight (Bombardier Lite) **refer to photo on page 2**	1 x 417 120 400 3 x 417 114 400	1 x 417 120 400 2 x 417 114 400	1 x 417 120 400 1 x 417 114 400	1 x 417 120 400	5 x 417 114 400	3 x 417 114 400
Capsule (Bombardier Lite)	1 x 417 114 500	⇐	⇐	⇐	⇐	⇐
Engagement RPM (± 100)	3500	⇐	3600	3700	3800	⇐
Maximum RPM (± 100)	6950	⇐	⇐	⇐	⇐	⇐

DRIVEN PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	White 505 152 070	⇐	⇐	⇐	⇐	⇐
Spring Tension (kg ± 0.7 lb ± 1.5)	0.0 Position 3	⇐	⇐	⇐	⇐	⇐
Cam Angle (degrees)	50° – 47° 417 126 587	⇐	⇐	⇐	⇐	⇐

Additional Information: At and above 2400 m (8000 ft) connect reverse connector (P/N 515 174 700) to E-box.

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

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 114 400	Weight	2
Refer to last page Chart for Main Jets Part Numbers		

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

NOTE: Shaded column gives factory settings.

NOTE: Carburetion and **Main Jet** Charts shown on next page.

CARBURETION

Altitude ⇒ Calibration ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	250	240	230	210	180	165	2
Jet needle	6BCY40	⇐	⇐	⇐	⇐	⇐	2
Needle position	4	⇐	⇐	3	⇐	⇐	—
Slide cut-away	2.5	⇐	⇐	⇐	⇐	⇐	—
Pilot jet	40	⇐	⇐	⇐	⇐	⇐	2
Mixture Screw	2.0	⇐	⇐	⇐	1.5	1.0	—
Valve seat	1.2	⇐	⇐	⇐	⇐	⇐	—
Needle jet	P8 (159)	⇐	⇐	⇐	⇐	⇐	2
Float level (mm)	23.9	⇐	⇐	⇐	⇐	⇐	—
Idle RPM (± 200)	1650	⇐	⇐	⇐	⇐	⇐	—
Idle throttle valve position (mm)	1.6	1.7	1.8	1.9	2.1	2.4	—

MAIN JET CHART

Altitude ⇒ Temperature ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 40°C - 40°F	260	250	240	220	190	175	PTO MAG
- 30°C - 20°F	255	245	235	215	185	170	PTO MAG
- 20°C - 4°F	**250**	240	230	210	180	165	**PTO MAG**
- 10°C 14°F	245	235	225	205	175	160	PTO MAG
0°C 32°F	240	230	220	200	170	155	PTO MAG
10°C 50°F	235	225	215	195	165	150	PTO MAG
20°C 70°F	230	220	210	190	160	145	PTO MAG

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

NOTE: Shaded column gives factory settings.

LEGEND 550 F (R) (Fan G.T.)

DRIVE PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Violet/Green 415 015 400	⇐	⇐	⇐	⇐	⇐
Block (Bombardier Lite)	417 118 100	⇐	⇐	⇐	⇐	⇐
Weight (Bombardier Lite) **refer to photo on page 2**	1 x 417 120 400 4 x 417 114 400	1 x 417 120 400 3 x 417 114 400	1 x 417 120 400 2 x 417 114 400	1 x 417 120 400 1 x 417 114 400	5 x 417 114 400	3 x 417 114 400
Capsule (Bombardier Lite)	1 x 417 114 500	⇐	⇐	⇐	⇐	⇐
Engagement RPM (± 100)	3300	⇐	3500	3600	3700	3800
Maximum RPM (± 100)	6950	⇐	⇐	⇐	⇐	⇐

DRIVEN PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	White 504 152 070	⇐	⇐	⇐	⇐	⇐
Spring Tension (kg ± 0.7 lb ± 1.5)	0.0 Position 3	⇐	⇐	⇐	⇐	⇐
Cam Angle (degrees)	50° – 47° 417 126 587	⇐	⇐	⇐	⇐	⇐

Additional Information: At and above 2400 m (8000 ft) connect reverse connector (P/N 515 174 700) to E-box.

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

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

NOTE: Shaded column gives factory settings.

NOTE: Carburetion and **Main Jet** Charts shown on next page.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 114 400	Weight	1
Refer to last page Chart for Main Jets Part Numbers		

CARBURETION

Altitude ⇒ Calibration ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	250	240	230	210	180	165	2
Jet needle	6BCY40	⇐	⇐	⇐	⇐	⇐	2
Needle position	4	⇐	⇐	3	⇐	⇐	—
Slide cut-away	2.5	⇐	⇐	⇐	⇐	⇐	—
Pilot jet	40	⇐	⇐	⇐	⇐	⇐	2
Mixture Screw	2.0	⇐	⇐	⇐	1.5	1.0	—
Valve seat	1.2	⇐	⇐	⇐	⇐	⇐	—
Needle jet	P8 (159)	⇐	⇐	⇐	⇐	⇐	2
Float level (mm)	23.9	⇐	⇐	⇐	⇐	⇐	—
Idle RPM (± 200)	1650	⇐	⇐	⇐	⇐	⇐	—
Idle throttle valve position (mm)	1.6	1.7	1.8	1.9	2.1	2.4	—

MAIN JET CHART

Altitude ⇒ Temperature ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 40°C - 40°F	260	250	240	220	190	175	PTO MAG
- 30°C - 20°F	255	245	235	215	185	170	PTO MAG
- 20°C - 4°F	**250**	240	230	210	180	165	**PTO MAG**
- 10°C 14°F	245	235	225	205	175	160	PTO MAG
0°C 32°F	240	230	220	200	170	155	PTO MAG
10°C 50°F	235	225	215	195	165	150	PTO MAG
20°C 70°F	230	220	210	190	160	145	PTO MAG

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

NOTE: Shaded column gives factory settings.

SUMMIT 550 F (R) (Europe)

DRIVE PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Violet/Yellow 415 015 300	⇐	⇐	⇐	⇐	⇐
Block (Bombardier Lite)	417 118 100	⇐	⇐	⇐	⇐	⇐
Weight (Bombardier Lite) **refer to photo on page 2**	1 x 417 120 400 4 x 417 114 400	1 x 417 120 400 3 x 417 114 400	1 x 417 120 400 2 x 417 114 400	1 x 417 120 400 1 x 414 114 400	5 x 417 114 400	3 x 417 114 400
Capsule (Bombardier Lite)	1 x 417 114 500	⇐	⇐	⇐	⇐	⇐
Engagement RPM (± 100)	3000	⇐	3500	3600	3700	3800
Maximum RPM (± 100)	6950	⇐	⇐	⇐	⇐	⇐

DRIVEN PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	White 504 152 070	⇐	⇐	⇐	⇐	⇐
Spring Tension (kg ± 0.7 lb ± 1.5)	0.0 Position 3	⇐	⇐	⇐	⇐	⇐
Cam Angle (degrees)	50° – 47° 417 126 587	⇐	⇐	⇐	⇐	⇐

Additional Information: At and above 2400 m (8000 ft) connect reverse connector (P/N 515 174 700) to E-box.

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

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

NOTE: Shaded column gives factory settings.

NOTE: Carburetion and **Main Jet** Charts shown on next page.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 114 400	Weight	1
Refer to last page Chart for Main Jets Part Numbers		

CARBURETION

Altitude ⇒ Calibration ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	250	240	230	210	180	165	2
Jet needle	6BCY40	⇐	⇐	⇐	⇐	⇐	2
Needle position	4	⇐	⇐	3	⇐	⇐	—
Slide cut-away	2.5	⇐	⇐	⇐	⇐	⇐	—
Pilot jet	40	⇐	⇐	⇐	⇐	⇐	2
Mixture Screw	2.0	⇐	⇐	⇐	1.5	1.0	—
Valve seat	1.2	⇐	⇐	⇐	⇐	⇐	—
Needle jet	P8 (159)	⇐	⇐	⇐	⇐	⇐	2
Float level (mm)	23.9	⇐	⇐	⇐	⇐	⇐	—
Idle RPM (± 200)	1650	⇐	⇐	⇐	⇐	⇐	—
Idle throttle valve position (mm)	1.6	1.7	1.8	1.9	2.1	2.4	—

MAIN JET CHART

Altitude ⇒ Temperature ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 40°C - 40°F	260	250	240	220	190	175	PTO MAG
- 30°C - 20°F	255	245	235	215	185	170	PTO MAG
- 20°C - 4°F	**250**	240	230	210	180	165	**PTO MAG**
- 10°C 14°F	245	235	225	205	175	160	PTO MAG
0°C 32°F	240	230	220	200	170	155	PTO MAG
10°C 50°F	235	225	215	195	165	150	PTO MAG
20°C 70°F	230	220	210	190	160	145	PTO MAG

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

NOTE: Shaded column gives factory settings.

SUMMIT 550 F (R)

DRIVE PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Violet/Green 415 015 400	⇐	⇐	⇐	⇐	⇐
Block (Bombardier Lite)	417 118 100	⇐	⇐	⇐	⇐	⇐
Weight (Bombardier Lite) **refer to photo on page 2**	1 x 417 120 400 4 x 417 114 400	1 x 417 120 400 3 x 417 114 400	1 x 417 120 400 2 x 417 114 400	1 x 417 120 400 1 x 414 114 400	5 x 417 114 400	3 x 417 114 400
Capsule (Bombardier Lite)	1 x 417 114 500	⇐	⇐	⇐	⇐	⇐
Engagement RPM (± 100)	3300	⇐	⇐	3500	3700	3800
Maximum RPM (± 100)	6950	⇐	⇐	⇐	⇐	⇐

DRIVEN PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	White 504 152 070	⇐	⇐	⇐	⇐	⇐
Spring Tension (kg ± 0.7 lb ± 1.5)	0.0 Position 3	⇐	⇐	⇐	⇐	⇐
Cam Angle (degrees)	50°—47° 417 126 587	⇐	⇐	⇐	⇐	⇐

Additional Information: At and above 2400 m (8000 ft) connect reverse connector (P/N 515 174 700) to E-box.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 114 400	Weight	4
Refer to last page Chart for Main Jets Part Numbers		

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

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

NOTE: Shaded column gives factory settings.

NOTE: Carburetion and **Main Jet** Charts shown on next page.

CARBURETION

Altitude ⇒ Calibration ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	250	240	230	210	180	165	2
Jet needle	6BCY40	⇐	⇐	⇐	⇐	⇐	2
Needle position	4	⇐	⇐	3	⇐	⇐	—
Slide cut-away	2.5	⇐	⇐	⇐	⇐	⇐	—
Pilot jet	40	⇐	⇐	⇐	⇐	⇐	2
Mixture Screw	2.0	⇐	⇐	⇐	1.5	1.0	—
Valve seat	1.2	⇐	⇐	⇐	⇐	⇐	—
Needle jet	P8 (159)	⇐	⇐	⇐	⇐	⇐	2
Float level (mm)	23.9	⇐	⇐	⇐	⇐	⇐	—
Idle RPM (± 200)	1650	⇐	⇐	⇐	⇐	⇐	—
Idle throttle valve position (mm)	1.6	1.7	1.8	1.9	2.1	2.4	—

MAIN JET CHART

Altitude ⇒ Temperature ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 40°C - 40°F	260	250	240	220	190	175	PTO MAG
- 30°C - 20°F	255	245	235	215	195	170	PTO MAG
- 20°C - 4°F	**250**	240	230	210	180	165	**PTO MAG**
- 10°C 14°F	245	235	225	205	175	160	PTO MAG
0°C 32°F	240	230	220	200	170	155	PTO MAG
10°C 50°F	235	225	215	195	165	150	PTO MAG
20°C 70°F	230	220	210	190	160	145	PTO MAG

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

NOTE: Shaded column gives factory settings.

SKANDIC 550 F (R) (Sport)

DRIVE PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Violet/Green 415 015 400	⇐	⇐	⇐	⇐	⇐
Block (Bombardier Lite)	417 118 100	⇐	⇐	⇐	⇐	⇐
Weight (Bombardier Lite) **refer to photo on page 2**	1 x 417 120 400 4 x 417 114 400	1 x 417 120 400 3 x 417 114 400	1 x 417 120 400 2 x 417 114 400	1 x 417 120 400 1 x 417 114 400	5 x 417 114 400	3 x 417 114 400
Capsule (Bombardier Lite)	1 x 417 114 500	⇐	⇐	⇐	⇐	⇐
Engagement RPM (± 100)	3300	⇐	3500	3600	3700	3800
Maximum RPM (± 100)	6950	⇐	⇐	⇐	⇐	⇐

DRIVEN PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	White 504 152 070	⇐	⇐	⇐	⇐	⇐
Spring Tension (kg ± 0.7 lb ± 1.5)	0.0 Position 3	⇐	⇐	⇐	⇐	⇐
Cam Angle (degrees)	50° – 47° 417 126 587	⇐	⇐	⇐	⇐	⇐

Additional Information: At and above 2400 m (8000 ft) connect reverse connector (P/N 515 174 700) to E-box.

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

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

NOTE: Shaded column gives factory settings.

NOTE: Carburetion and **Main Jet** Charts shown on next page.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 114 400	Weight	1
Refer to last page Chart for Main Jets Part Numbers		

CARBURETION

Altitude ⇒ Calibration ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	250	240	230	210	180	165	2
Jet needle	6BCY40	⇐	⇐	⇐	⇐	⇐	2
Needle position	4	⇐	⇐	3	⇐	⇐	—
Slide cut-away	2.5	⇐	⇐	⇐	⇐	⇐	—
Pilot jet	40	⇐	⇐	⇐	⇐	⇐	2
Mixture Screw	2.0	⇐	⇐	⇐	1.5	1.0	—
Valve seat	1.2	⇐	⇐	⇐	⇐	⇐	—
Needle jet	P8 (159)	⇐	⇐	⇐	⇐	⇐	2
Float level (mm)	23.9	⇐	⇐	⇐	⇐	⇐	—
Idle RPM (± 200)	1650	⇐	⇐	⇐	⇐	⇐	—
Idle throttle valve position (mm)	1.6	1.7	1.8	1.9	2.1	2.4	—

MAIN JET CHART

Altitude ⇒ Temperature ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 40°C - 40°F	260	250	240	220	190	175	PTO MAG
- 30°C - 20°F	255	245	235	215	185	170	PTO MAG
- 20°C - 4°F	**250**	240	230	210	180	165	**PTO MAG**
- 10°C 14°F	245	235	225	205	175	160	PTO MAG
0°C 32°F	240	230	220	200	170	155	PTO MAG
10°C 50°F	235	225	215	195	165	150	PTO MAG
20°C 70°F	230	220	210	190	160	145	PTO MAG

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

NOTE: Shaded column gives factory settings.

SKANDIC 550 F (R) (SWT/WT)

DRIVE PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Yellow/Green 414 742 100	⇐	⇐	⇐	⇐	⇐
Block (Bombardier Lite)	417 118 100	⇐	⇐	⇐	⇐	⇐
Weight (Bombardier Lite) **refer to photo on page 2**	1 x 417 120 400 4 x 417 114 400	1 x 417 120 400 3 x 417 114 400	1 x 417 120 400 2 x 417 114 400	1 x 417 120 400 1 x 417 114 400	5 x 417 114 400	3 x 417 114 400
Capsule (Bombardier Lite)	1 x 417 114 500	⇐	⇐	⇐	⇐	⇐
Engagement RPM (± 100)	3000	⇐	3100	3200	3300	3400
Maximum RPM (± 100)	6950	⇐	⇐	⇐	⇐	⇐

DRIVEN PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Blue ACS 3–188 (417 119 100)	⇐	⇐	⇐	⇐	⇐
Spring Tension (kg ± 0.7 lb ± 1.5)	7.0 kg 15.4 lb	⇐	⇐	⇐	⇐	⇐
Cam Angle (degrees)	40° – 35°	⇐	⇐	⇐	⇐	⇐

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
417 114 400	Weight	1
Refer to last page Chart for Main Jets Part Numbers		

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

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

NOTE: Shaded column gives factory settings.

NOTE: Carburetion and **Main Jet** Charts shown on next page.

CARBURETION

Altitude ⇒ Calibration ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	190	180	170	150	140	130	2
Jet needle	6DH4	⇐	⇐	⇐	⇐	⇐	2
Needle position	2	⇐	⇐	1	⇐	⇐	—
Slide cut-away	2.5	⇐	⇐	⇐	⇐	⇐	—
Pilot jet	40	⇐	⇐	⇐	⇐	⇐	2
Mixture Screw	1.5	⇐	⇐	⇐	⇐	⇐	—
Valve seat	1.2	⇐	⇐	⇐	⇐	⇐	—
Needle jet	P0 (159)	⇐	⇐	⇐	⇐	⇐	2
Float level (mm)	23.9	⇐	⇐	⇐	⇐	⇐	—
Idle RPM (± 200)	1650	⇐	⇐	⇐	⇐	⇐	—
Idle throttle valve position (mm)	1.6	1.7	1.8	1.9	2.0	21	—

MAIN JET CHART

Altitude ⇒ Temperature ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 40°C - 40°F	210	200	190	170	160	150	PTO MAG
- 30°C - 20°F	200	190	180	160	150	140	PTO MAG
- 20°C - 4°F	**190**	180	170	150	140	130	**PTO MAG**
- 10°C 14°F	180	170	160	140	130	120	PTO MAG
0°C 32°F	170	160	150	130	120	110	PTO MAG
10°C 50°F	160	150	140	120	110	100	PTO MAG
20°C 70°F	150	140	130	110	100	90	PTO MAG

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

NOTE: Shaded column gives factory settings.

MX Z 380 F (R)/LEGEND 380 F (R)/ LEGEND 380 F (R) (Fan G.T.)

DRIVE PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Blue/Green on Violet 417 126 621	⇐	⇐	Violet/Green 415 015 400	⇐	⇐
Block (Bombardier Lite)	417 118 100	⇐	⇐	⇐	⇐	⇐
Weight (Bombardier Lite) **refer to photo on page 2**	1 x 417 120 400 4 x 417 114 400	1 x 417 120 400 3 x 417 114 400	1 x 417 120 400 2 x 417 114 400	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 ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	White 504 152 070	⇐	⇐	⇐	⇐	⇐
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) connect reverse connector (P/N 515 174 700) to E-box.

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

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

NOTE: Shaded column gives factory settings.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
415 015 400	Spring (Violet/Green)	1
Refer to last page Chart for Main Jets Part Numbers		

NOTE: Carburetion and **Main Jet** Charts shown on next page.

CARBURETION

Altitude ⇒ Calibration ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	185	170	160	145	135	120	2
Jet needle	6CDY02–50	⇐	⇐	⇐	⇐	⇐	2
Needle position	2	⇐	1	⇐	⇐	⇐	—
Slide cut-away	2.0	⇐	⇐	⇐	⇐	⇐	—
Pilot jet	40	⇐	⇐	⇐	⇐	⇐	2
Mixture Screw	1.5	⇐	⇐	⇐	⇐	⇐	—
Valve seat	1.2	⇐	⇐	⇐	⇐	⇐	—
Needle jet	Q–0 (159)	⇐	⇐	⇐	⇐	⇐	2
Float level (mm)	23.9	⇐	⇐	⇐	⇐	⇐	—
Idle RPM (± 200)	1650	⇐	⇐	⇐	⇐	⇐	—
Idle throttle valve position (mm)	1.7	1.8	1.9	⇐	2.0	⇐	—

MAIN JET CHART

Altitude ⇒ Temperature ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 40°C - 40°F	195	180	170	155	145	130	PTO MAG
- 30°C - 20°F	190	175	165	150	140	125	PTO MAG
- 20°C - 4°F	**185**	170	160	145	135	120	**PTO MAG**
- 10°C 14°F	180	165	155	140	130	115	PTO MAG
0°C 32°F	175	160	150	135	125	110	PTO MAG
10°C 50°F	170	155	145	130	120	110	PTO MAG
20°C 70°F	170	155	145	130	120	110	PTO MAG

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

NOTE: Shaded column gives factory settings.

TUNDRA 280 F (R)

DRIVE PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Red/Yellow 414 817 500	⇐	⇐	⇐	⇐	⇐
Block (Bombardier Lite)	417 114 300	⇐	⇐	⇐	⇐	⇐
Weight (Bombardier Lite) **refer to photo on page 2**	5 x 417 114 400	4 x 417 114 400	3 x 417 114 400	2 x 417 114 400	1 x 417 114 400	⇐
Capsule (Bombardier Lite)	1 x 417 114 500	⇐	⇐	⇐	⇐	⇐
Engagement RPM (± 100)	3000	3100	3200	3300	⇐	⇐
Maximum RPM (± 100)	6900	⇐	⇐	⇐	⇐	⇐

DRIVEN PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Yellow 415 094 300	⇐	⇐	⇐	⇐	⇐
Spring Tension (kg ± 0.7 lb ± 1.5)	0.0 Position 3	⇐	⇐	⇐	⇐	⇐
Cam Angle (degrees)	37.8° 417 126 350	⇐	⇐	⇐	⇐	⇐

CAUTION: These 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
Refer to last page Chart for Main Jets Part Numbers		

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

NOTE: Shaded column gives factory settings.

NOTE: Carburetion and **Main Jet** Charts shown on next page.

CARBURETION

Altitude ⇒ Calibration ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	200	195	185	160	150	140	2
Jet needle	6DH4	⇐	⇐	⇐	⇐	⇐	2
Needle position	3	⇐	⇐	2	⇐	⇐	—
Slide cut-away	2.5	⇐	⇐	⇐	⇐	⇐	—
Pilot jet	40	⇐	⇐	⇐	⇐	⇐	2
Mixture Screw	1.0	⇐	⇐	0.75	⇐	⇐	—
Valve seat	1.5	⇐	⇐	⇐	⇐	⇐	—
Needle jet	O–8 (159)	⇐	⇐	⇐	⇐	⇐	2
Float level (mm)	23.9	⇐	⇐	⇐	⇐	⇐	—
Idle RPM (± 200)	1650	⇐	⇐	⇐	⇐	⇐	—
Idle throttle valve position (mm)	1.5	1.6	1.7	1.8	1.9	2.0	—

MAIN JET CHART

Altitude ⇒ Temperature ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 40°C - 40°F	220	210	200	180	170	160	PTO MAG
- 30°C - 20°F	210	200	190	170	160	150	PTO MAG
- 20°C - 4°F	**200**	195	185	160	150	140	**PTO MAG**
- 10°C 14°F	195	190	180	155	145	135	PTO MAG
0°C 32°F	190	185	175	150	140	130	PTO MAG
10°C 50°F	180	175	165	140	130	120	PTO MAG
20°C 70°F	175	170	160	135	125	115	PTO MAG

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

NOTE: Shaded column gives factory settings.

SKANDIC 440 F (R) (LT)

DRIVE PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Silver/Black M140032	⇐	⇐	Purple M207758A	⇐	⇐
Ramp	M140030	⇐	⇐	⇐	⇐	⇐
Calibration Screw Position	N.A.	⇐	⇐	⇐	⇐	⇐
Pin	N.A.	⇐	⇐	⇐	⇐	⇐
Engagement RPM (± 100)	3200	⇐	⇐	⇐	⇐	⇐
Maximum RPM (± 100)	6800	⇐	⇐	⇐	⇐	⇐

DRIVEN PULLEY

Altitude ⇒ Clutching ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Yellow 415 092 800	⇐	⇐	⇐	⇐	⇐
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: These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions. Always observe spark plug condition for proper jetting.

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

NOTE: Shaded column gives factory settings.

NOTE: Carburetion and **Main Jet** Charts shown on next page.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
M207758A	Spring (Purple)	1
Refer to last page Chart for Main Jets Part Numbers		

CARBURETION

Altitude ⇒ Calibration ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	180	170	155	145	130	120	2
Jet needle	6DGY12	⇐	⇐	⇐	⇐	⇐	2
Needle position	3	⇐	2	⇐	⇐	⇐	—
Slide cut-away	3.0	⇐	⇐	⇐	⇐	⇐	—
Pilot jet	50	⇐	⇐	⇐	⇐	⇐	2
Mixture Screw	1.5	1.75	⇐	2.0	⇐	⇐	—
Valve seat	1.5	⇐	⇐	⇐	⇐	⇐	—
Needle jet	O–0 (159)	⇐	⇐	⇐	⇐	⇐	2
Float level (mm)	23.9	⇐	⇐	⇐	⇐	⇐	—
Idle RPM (± 200)	1650	⇐	⇐	⇐	⇐	⇐	—
Idle throttle valve position (mm)	1.4	1.6	1.8	⇐	2.0	⇐	—

MAIN JET CHART

Altitude ⇒ Temperature ⇓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
- 40°C - 40°F	190	180	165	155	140	130	PTO MAG
- 30°C - 20°F	185	175	160	150	135	125	PTO MAG
- 20°C - 4°F	**180**	170	155	145	130	120	**PTO MAG**
- 10°C 14°F	175	165	150	140	125	115	PTO MAG
0°C 32°F	170	160	145	135	120	110	PTO MAG
10°C 50°F	165	155	140	130	120	110	PTO MAG
20°C 70°F	165	155	140	130	120	110	PTO MAG

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

NOTE: Shaded column gives factory settings.

MAIN JETS CHART

TYPE	BOMBARDIER P/N	TYPE	BOMBARDIER P/N	TYPE	BOMBARDIER P/N
80	404 133 100	215	404 161 979	480	404 106 800
85	404 133 000	220	404 111 200	490	404 106 900
90	404 132 900	230	404 118 900	500	404 108 200
95	404 132 800	240	404 100 200	510 N	404 161 983
100	404 132 000	250	404 100 300	520 N	404 115 100
105	404 132 100	260	404 100 600	530	404 108 300
110	404 124 100	270	404 100 400	540	404 114 800
115	404 124 000	280	404 100 500	550	N.A.
120	404 123 900	290	404 101 100	560	404 108 400
125	404 124 800	300	404 101 200	570	N.A.
130	404 124 900	310	404 107 800	580	404 115 400
135	404 130 400	320	404 101 300	590	404 108 500
140	404 126 600	330	404 101 400	600	404 115 500
145	404 130 500	340	404 104 900	610	N.A.
150	404 120 900	350	404 106 000	620	404 115 700
155	404 128 700	360	404 106 100	630	N.A.
160	404 118 200	370	404 106 200	640	404 115 900
165	404 119 300	380	404 106 300	650	404 116 000
170	404 123 800	390	404 106 400	660	404 114 700
175	404 119 200	400	404 100 900	670	N.A.
180	404 112 200	410	404 101 000	680	404 116 200
185	404 119 500	420	404 107 900	690	N.A.
190	404 119 000	430	404 108 000	700	404 114 600
195	404 119 400	440	404 108 100	710	404 116 400
200	404 112 300	450	404 106 500	720	404 116 500
205	404 159 200	460	404 106 600		
210	404 119 100	470	404 106 700		