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Date: **October 4, 2004**

Subject: **High Altitude / Sea Level Specs**

No. **2005-6**

REVISION 1 => : OCTOBER 19, 2005

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
2005	All	All	All

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=> GENERAL INFORMATION

This bulletin supplies all information **required to modify** current year vehicles for **high altitude and/or sea level** riding.

Previous Model Year

For previous MY, refer to the latest bulletin revision from BOSSWeb.

Model Year	Service Bulletin No.
2004	2004-2
2003	2003-5
2002	2002-5
2001	2001-1 & 2001-2
2000	2000-1 & 2000-2
1999 and previous	<i>High Altitude and Sea Level Data</i> 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.

Bombardier Lite Clutch



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

IDLE SPEED SCREW ADJUSTMENT

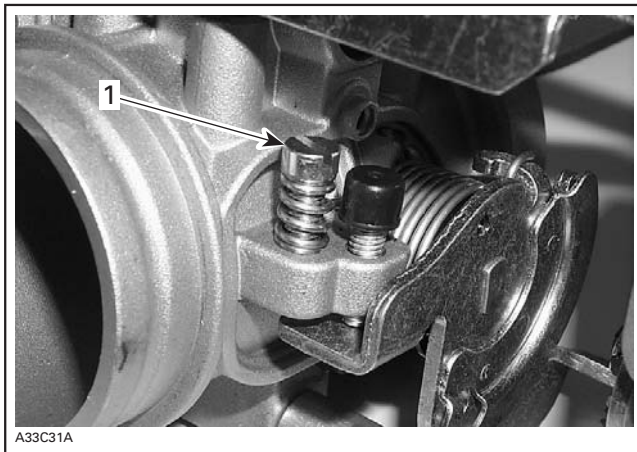
NOTE: This operation performs a reset of the values in the ECM.

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 B.U.D.S. 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 an 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.

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 and above 1800 m (6000 ft)		
YEAR	ENGINE TYPE	VALUE
2004	593 SDI	4.1° (± 0.1°)
2005		4.9° (± 0.1°)

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.

TUNDRA R

Drive Pulley

Altitude ⇒ Clutching ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Red/Yel- low 414 817 500	⇐	⇐	⇐	⇐	⇐
Block	417 114 300	⇐	⇐	⇐	⇐	⇐
Weight (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	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 414 094 300	⇐	⇐	⇐	⇐	⇐
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 tables herein and see last page for main jet 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	200	195	185	160	150	140	1	
Jet needle	6DH4	⇐	⇐	⇐	⇐	⇐	1	
Needle position	3	⇐	⇐	2	⇐	⇐	—	
Slide cut-away	2.5	⇐	⇐	⇐	⇐	⇐	—	
Pilot jet	40	⇐	⇐	⇐	⇐	⇐	1	
Mixture screw	1.0	⇐	⇐	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 ⇒ Temperature ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
-40°C -40°F	220	210	200	180	170	160	—
-30°C -20°F	210	200	190	170	160	150	—
-20°C -4°F	200	195	185	160	150	140	—
-10°C 14°F	195	190	180	155	145	135	—
0°C 32°F	190	185	175	150	140	130	—
10°C 50°F	180	175	165	140	130	120	—
20°C 70°F	175	170	160	135	125	115	—

MXZ 380 F / GSX 380 F / GTX 380 F (136)

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/Pink on Violet 414 916 300	⇐	⇐	Blue/Blue on Violet 414 689 400	⇐	⇐
Block	417 118 100	⇐	⇐	⇐	⇐	⇐
Weight (refer to photo on page 2)	1 x 417 114 400 1 x 417 120 400	1 x 417 120 400	4 x 417 114 400	2 x 417 120 400	1 x 417 120 400	⇐
Capsule	1 x 417 114 500	⇐	⇐	⇐	⇐	⇐
Engagement RPM ± 100	3300	3500	3600	3800	⇐	⇐
Maximum RPM ± 100	7000	⇐	⇐	⇐	⇐	⇐

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° (long) 417 126 333	⇐	⇐	⇐	⇐

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 tables herein and see last page for main jet 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	195	180	170	155	145	130	2	
Jet needle	6DEY13	⇐	⇐	⇐	⇐	⇐	2	
Needle position	3	⇐	2	⇐	⇐	⇐	—	
Slide cut-away	2.0	⇐	⇐	⇐	⇐	⇐	—	
Pilot jet	35	⇐	⇐	⇐	⇐	⇐	2	
Mixture screw	2.0	⇐	⇐	⇐	⇐	⇐	—	
Valve seat	1.2	⇐	⇐	⇐	⇐	⇐	—	
Needle jet	Q-2	⇐	⇐	⇐	⇐	⇐	2	
Float level	mm	23.9	⇐	⇐	⇐	⇐	—	
Idle	RPM ± 200	1650	⇐	⇐	⇐	⇐	—	
Idle throttle valve position	mm	1.7	1.8	1.9	2.0	⇐	2.1	—

Main Jet Chart

Altitude ⇒ Temperature ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
-40°C -40°F	205	190	180	165	155	140	PTO MAG
-30°C -20°F	200	185	175	160	150	135	PTO MAG
-20°C -4°F	195	180	170	155	145	130	PTO MAG
-10°C 14°F	190	175	165	150	140	125	PTO MAG
0°C 32°F	185	170	160	145	135	120	PTO MAG
10°C 50°F	180	165	155	140	130	115	PTO MAG
20°C 70°F	180	165	155	140	130	115	PTO MAG

SKANDIC 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	↔	↔
Weight	M140030	↔	↔	↔	↔	↔
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	↔	↔	↔	↔
Cam angle	(degrees)	40°	↔	↔	↔	↔

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 tables herein and see last page for main jet 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	180	170	155	145	130	120	2	
Jet needle	6DGY12	↔	↔	↔	↔	↔	2	
Needle position	3	↔	2	↔	↔	↔	—	
Slide cut-away	3.0	↔	↔	↔	↔	↔	2	
Pilot jet	50	↔	↔	↔	↔	↔	2	
Mixture screw	1.5	1.75	↔	2.0	↔	↔	2	
Valve seat	1.5	↔	↔	↔	↔	↔	2	
Needle jet	0-0 (159)	↔	↔	↔	↔	↔	2	
Float level	mm	23.9	↔	↔	↔	↔	—	
Idle	RPM ± 200	1800	↔	↔	↔	↔	—	
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	Qty
-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

MXZ 550 F / GSX 550 F

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	Purple/Yellow 415 015 300	⇐	⇐	⇐	⇐	⇐
Block	417 118 100	⇐	⇐	⇐	⇐	⇐
Weight (refer to photo on page 2)	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	1 x 417 114 500	⇐	⇐	⇐	⇐	⇐
Engagement RPM ± 100	3500	⇐	3600	⇐	3800	⇐
Maximum RPM ± 100	7000	⇐	⇐	⇐	⇐	⇐

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	⇐	⇐	⇐	⇐
Cam angle	° (degree)	44° long 417 126 718	⇐	⇐	⇐	⇐

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 tables herein and see last page for main jet 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	260	250	240	220	190	175	2	
Jet needle	6BCY40	⇐	⇐	⇐	⇐	⇐	2	
Needle position	4	⇐	⇐	3	⇐	⇐	—	
Slide cut-away	2.5	⇐	⇐	⇐	⇐	⇐	2	
Pilot jet	45	⇐	⇐	⇐	⇐	⇐	2	
Mixture screw	2.0	⇐	⇐	⇐	1.5	1.0	2	
Valve seat	1.2	⇐	⇐	⇐	⇐	⇐	2	
Needle jet	P-7 (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	Qty
-40°C -40°F	270	260	250	230	200	185	PTO MAG
-30°C -20°F	260	250	240	220	195	180	PTO MAG
-20°C -4°F	260	250	240	220	190	175	PTO MAG
-10°C 14°F	250	240	230	215	185	170	PTO MAG
0°C 32°F	250	240	230	210	180	165	PTO MAG
10°C 50°F	240	230	220	205	175	160	PTO MAG
20°C 70°F	240	230	220	200	170	155	PTO MAG

SUMMIT 550 F 136

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	⇐	⇐	⇐	Purple/Yellow 415 015 300	⇐	⇐
Block	⇐	⇐	⇐	417 118 100	⇐	⇐
Weight (refer to photo on page 2)	2 x 417 114 400 1 x 417 120 400	1 x 417 114 400 1 x 417 120 400	1 x 417 120 400	5 x 417 114 400	3 x 417 114 400	2 x 417 114 400
Capsule	⇐	⇐	⇐	1 x 417 114 500	⇐	⇐
Engagement RPM ± 100	3500	3600	3700	3800	3900	⇐
Maximum RPM ± 100	⇐	⇐	⇐	7000	⇐	⇐

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	⇐	⇐
Cam angle	° (degrees)	⇐	⇐	44° long 417 126 718	⇐	⇐

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 tables herein and see last page for main jet 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	260	250	240	220	190	175	2	
Jet needle	⇐	⇐	⇐	6BCY40	⇐	⇐	2	
Needle position	4	⇐	⇐	3	⇐	⇐	—	
Slide cut-away	⇐	⇐	⇐	2.5	⇐	⇐	2	
Pilot jet	⇐	⇐	⇐	45	⇐	⇐	2	
Mixture screw	⇐	⇐	⇐	2.0	1.5	1.0	2	
Valve seat	⇐	⇐	⇐	1.2	⇐	⇐	2	
Needle jet	⇐	⇐	⇐	P-7 (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	Qty
-40°C -40°F	270	260	250	230	200	185	PTO MAG
-30°C -20°F	260	250	240	220	195	180	PTO MAG
-20°C -4°F	260	250	240	220	190	175	PTO MAG
-10°C 14°F	250	240	230	215	185	170	PTO MAG
0°C 32°F	250	240	230	210	180	165	PTO MAG
10°C 50°F	240	230	220	205	175	160	PTO MAG
20°C 70°F	240	230	220	200	170	155	PTO MAG

SKANDIC FC WT / SWT / SUV

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	417 118 100	⇐	⇐	⇐	⇐	⇐
Weight (refer to photo on page 2)	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 1 x 417 120 400	5 x 417 114 400	3 x 417 114 400
Capsule	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 7.0 kg 15.4lb	⇐	⇐	⇐	⇐	⇐
Cam angle (degrees)	40°- 35°	⇐	⇐	⇐	⇐	⇐

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 tables herein and see last page for main jet 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	190	180	170	150	140	130	2
Jet needle	6DH4	⇐	⇐	⇐	⇐	⇐	2
Needle position	2	⇐	⇐	1	⇐	⇐	—
Slide cut-away	2.5	⇐	⇐	⇐	⇐	⇐	2
Pilot jet	40	⇐	⇐	⇐	⇐	⇐	2
Mixture screw	1.5	⇐	⇐	⇐	⇐	⇐	2
Valve seat	1.2	⇐	⇐	⇐	⇐	⇐	2
Needle jet	P-0 (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	2.1	—

Main Jet Chart

Altitude ⇒ Temperature ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
-40°C -40°F	210	200	190	170	160	150	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

SKANDIC 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 15.4lb	⇐	⇐	⇐	⇐
Cam angle	(degree)	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
Refer to tables herein and see last page for main jet 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	330	300	280	250	230	200	2	
Jet needle	6DGL24	⇐	⇐	⇐	⇐	⇐	2	
Needle position	3	⇐	⇐	⇐	⇐	⇐	—	
Slide cut-away	2.5	⇐	⇐	⇐	⇐	⇐	2	
Pilot jet	40	⇐	⇐	⇐	⇐	⇐	2	
Mixture screw	2.0	⇐	⇐	⇐	1.5	⇐	2	
Valve seat	1.5	⇐	⇐	⇐	⇐	⇐	2	
Needle jet	480 P-9	⇐	⇐	⇐	⇐	⇐	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	Qty
-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	180	PTO MAG
10°C 50°F	300	270	250	220	200	170	PTO MAG
20°C 70°F	290	260	240	210	190	160	PTO MAG

EXPEDITION SPORT 550 F

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	Purple-Yellow 415 015 300	⇐	⇐	⇐	⇐	⇐
Block	417 118 100	⇐	⇐	⇐	⇐	⇐
Weight (refer to photo on page 2)	2 x 417 114 400 1 x 417 120 400	1 x 417 114 400 1 x 417 120 400	⇐	1 x 417 120 400	5 x 417 114 400	3 x 417 114 400
Capsule	1 x 417 114 500	⇐	⇐	⇐	⇐	⇐
Engagement RPM ± 100	3300	⇐	3400	3500	3600	⇐
Maximum RPM ± 100	7000	⇐	⇐	⇐	⇐	⇐

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	⇐	⇐	⇐	⇐
Cam angle	44° (long) (degrees) 417 126 718	⇐	⇐	⇐	⇐	⇐

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 tables herein and see last page for main jet 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	260	250	240	220	190	175	2	
Jet needle	6BCY40	⇐	⇐	⇐	⇐	⇐	2	
Needle position	4	⇐	⇐	3	⇐	⇐	—	
Slide cut-away	2.5	⇐	⇐	⇐	⇐	⇐	2	
Pilot jet	45	⇐	⇐	⇐	⇐	⇐	2	
Mixture screw	2.0	⇐	⇐	⇐	1.5	1.0	2	
Valve seat	1.2	⇐	⇐	⇐	⇐	⇐	2	
Needle jet	P-7 (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	Qty
-40°C -40°F	270	260	250	230	200	185	PTO MAG
-30°C -20°F	260	250	240	220	195	180	PTO MAG
-20°C -4°F	260	250	240	220	190	175	PTO MAG
-10°C 14°F	250	240	230	215	185	170	PTO MAG
0°C 32°F	250	240	230	210	180	165	PTO MAG
10°C 50°F	240	230	220	205	175	160	PTO MAG
20°C 70°F	240	230	220	200	170	155	PTO MAG

GTX 550 F 136

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/Orange 414 639 000	⇐	⇐	⇐	⇐	⇐
Block	417 118 100	⇐	⇐	⇐	⇐	⇐
Weight (refer to photo on page 2)	2 x 417 114 400 1 x 417 120 400	1 x 417 114 400 1 x 417 120 400	1 x 417 120 400	5 x 417 114 400	4 x 417 114 400	3 x 417 114 400
Capsule	1 x 417 114 500	⇐	⇐	⇐	⇐	⇐
Engagement RPM ± 100	3000	⇐	3100	3200	3300	⇐
Maximum RPM ± 100	7000	⇐	⇐	⇐	⇐	⇐

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	⇐	⇐	⇐	⇐	⇐
Cam angle	44° (long) 417 126 718 (degree)	⇐	⇐	⇐	⇐	⇐

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 tables herein and see last page for main jet 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	260	250	240	220	190	175	2	
Jet needle	6BCY40	⇐	⇐	⇐	⇐	⇐	2	
Needle position	4	⇐	⇐	3	⇐	⇐	—	
Slide cut-away	2.5	⇐	⇐	⇐	⇐	⇐	2	
Pilot jet	45	⇐	⇐	⇐	⇐	⇐	2	
Mixture screw	2.0	⇐	⇐	⇐	1.5	1.0	2	
Valve seat	1.2	⇐	⇐	⇐	⇐	⇐	2	
Needle jet	P-7 (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	Qty
-40°C -40°F	270	260	250	230	200	185	PTO MAG
-30°C -20°F	260	250	240	220	195	180	PTO MAG
-20°C -4°F	260	250	240	220	190	175	PTO MAG
-10°C 14°F	250	240	230	215	185	170	PTO MAG
0°C 32°F	250	240	230	210	180	165	PTO MAG
10°C 50°F	240	230	220	205	175	160	PTO MAG
20°C 70°F	240	230	220	200	170	155	PTO MAG

SUMMIT 550 F 136 (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	Blue/Orange 414 639 000	⇐	⇐	⇐	⇐	⇐
Block	417 118 100	⇐	⇐	⇐	⇐	⇐
Weight (refer to photo on page 2)	4 x 417 114 400 1 x 4 17 120 400	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	1 x 417 114 500	⇐	⇐	⇐	⇐	⇐
Engagement RPM ± 100	3000	⇐	3500	3600	3700	3800
Maximum RPM ± 100	7000	⇐	⇐	⇐	⇐	⇐

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	⇐	⇐	⇐	⇐
Cam angle	° (degrees)	44° (long) 417 126 718	⇐	⇐	⇐	⇐

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 tables herein and see last page for main jet 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	260	250	240	220	190	175	2	
Jet needle	6BCY40	⇐	⇐	⇐	⇐	⇐	2	
Needle position	4	⇐	⇐	3	⇐	⇐	—	
Slide cut-away	2.5	⇐	⇐	⇐	⇐	⇐	2	
Pilot jet	45	⇐	⇐	⇐	⇐	⇐	2	
Mixture screw	2.0	⇐	⇐	⇐	1.5	1.0	2	
Valve seat	1.2	⇐	⇐	⇐	⇐	⇐	2	
Needle jet	P-7 (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	Qty
-40°C -40°F	270	260	250	230	200	185	PTO MAG
-30°C -20°F	260	250	240	220	195	180	PTO MAG
-20°C -4°F	260	250	240	220	190	175	PTO MAG
-10°C 14°F	250	240	230	215	185	170	PTO MAG
0°C 32°F	250	240	230	210	180	165	PTO MAG
10°C 50°F	240	230	220	205	175	160	PTO MAG
20°C 70°F	240	230	220	200	170	155	PTO MAG

MXZ 500 SS R TRAIL / ADRENALINE / TRAIL (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	↔	↔	↔	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	↔	↔	↔	↔	↔
Cam angle	° (degrees) 44° (long- anodised) 417 126 747	↔	↔	↔	↔	↔

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 tables herein and see last page for main jet 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	360	340	320	300	280	250	2
Jet needle	9DGM15-58	↔	↔	↔	↔	↔	2
Needle position	1	↔	↔	↔	↔	↔	—
Slide cut-away	2.0	↔	↔	↔	↔	↔	2
Pilot jet	17.5	↔	↔	↔	↔	↔	2
Mixture screw	na	↔	↔	2.0	↔	↔	—
Valve seat	1.5	↔	↔	↔	↔	↔	2
Needle jet	P-0M	↔	↔	↔	↔	↔	2
Float level	mm	na	↔	↔	↔	↔	—
Idle	RPM ± 200	1600	↔	↔	↔	↔	—
Idle throttle valve position	mm	1.5	1.6	1.7	1.8	1.9	↔

Main Jet Chart

Altitude ⇒ Temperature ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
-40°C -40°F	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

GSX 500 SS R SPORT / GTX 500 SS R SPORT 136 (N-A / 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	Purple/Pink 414 949 500	⇐	⇐	Pink/White 414 991 400	⇐	⇐
Ramp	417 222 515 (412)	⇐	⇐	⇐	⇐	⇐
Calibration Screw Position	4	5	6	4	5	6
Pin	417 004 308 (Solid)	⇐	⇐	⇐	417 004 309 (Hollow)	⇐
Engagement RPM ± 100	3400	⇐	3900	⇐	⇐	⇐
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	⇐	⇐	⇐	⇐	⇐
Cam angle	44° (long- anodised) (degrees) 417 126 747	⇐	⇐	⇐	⇐	⇐

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 tables herein and see last page for main jet 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	360	340	320	300	280	250	2
Jet needle	9DGM13-58	⇐	⇐	⇐	⇐	⇐	2
Needle position	1	⇐	⇐	⇐	⇐	⇐	—
Slide cut-away	2.0	⇐	⇐	⇐	⇐	⇐	2
Pilot jet	17.5	⇐	⇐	⇐	⇐	⇐	2
Mixture screw	na	⇐	⇐	2.0	⇐	⇐	—
Valve seat	1.5	⇐	⇐	⇐	⇐	⇐	2
Needle jet	P-0M	⇐	⇐	⇐	⇐	⇐	2
Float level	mm na	⇐	⇐	⇐	⇐	⇐	—
Idle	RPM ± 200	1600	⇐	⇐	⇐	⇐	—
Idle throttle valve position	mm	1.5	1.6	1.7	1.8	1.9	⇐

Main Jet Chart

Altitude ⇒ Temperature ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
-40°C -40°F	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

MXZ 600 HO R TRAIL / ADRENALINE / X / GSX 600 R SPORT / GTX 600 R SPORT 136

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	Purple/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	° (degree)	47°-44° 417 126 385	⇐	⇐	44° 417 126 445	⇐

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 tables herein and see last page for main jet 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	9DH114-58	⇐	⇐	9DH112-58	⇐	⇐	2
Needle position	1	⇐	⇐	2	⇐	⇐	—
Slide cut-away	2.0	⇐	⇐	⇐	⇐	⇐	2
Pilot jet	17.5	⇐	⇐	⇐	⇐	⇐	2
Mixture screw	na	⇐	⇐	2.0	⇐	⇐	—
Valve seat	1.5	⇐	⇐	⇐	⇐	⇐	2
Needle jet	P-0M	⇐	⇐	⇐	⇐	⇐	2
Float level	mm	na	⇐	⇐	⇐	⇐	—
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	Qty
-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

MXZ 600 HO R 1.25

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	Purple/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	⇐	⇐	⇐	⇐	⇐
Cam angle	° (degree)	44° 417 126 445	⇐	⇐	⇐	⇐

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 tables herein and see last page for main jet 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	9DH114-58	⇐	⇐	9DH112-58	⇐	⇐	2
Needle position	1	⇐	⇐	2	⇐	⇐	—
Slide cut-away	2.0	⇐	⇐	⇐	⇐	⇐	2
Pilot jet	17.5	⇐	⇐	⇐	⇐	⇐	2
Mixture screw	na	⇐	⇐	⇐	⇐	⇐	—
Valve seat	1.5	⇐	⇐	⇐	⇐	⇐	2
Needle jet	P-0M	⇐	⇐	⇐	⇐	⇐	2
Float level	mm	na	⇐	⇐	⇐	⇐	—
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	Qty
-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

SUMMIT 600 HO R ADRENALINE 144

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 206 262 699 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	⇐	⇐	⇐

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 tables herein and see last page for main jet 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	⇐	⇐	⇐	⇐	2
Jet needle	⇐	9DGK11- 58	⇐	⇐	⇐	⇐	2
Needle position	⇐	3	⇐	⇐	⇐	⇐	—
Slide cut- away	⇐	2.0	⇐	⇐	⇐	⇐	2
Pilot jet	⇐	17.5	⇐	⇐	⇐	⇐	2
Mixture screw	⇐	na	⇐	⇐	⇐	⇐	—
Valve seat	⇐	1.5	⇐	⇐	⇐	⇐	2
Needle jet ⇐	P-0M	P-0M	⇐	⇐	⇐	⇐	2
Float level	mm	⇐	na	⇐	⇐	⇐	—
Idle	RPM ± 200	⇐	1600	⇐	⇐	⇐	—
Idle throtle valve posi- tion	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	Qty
-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

SUMMIT 600 HO R ADRENALINE 144 (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	Purple/Blue 415 034 900	⇐	⇐	⇐	⇐	⇐
Ramp	417 222 596 (410)	⇐	⇐	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	3800	⇐	⇐	⇐	⇐	⇐
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	° 44° 417 126 445	⇐	⇐	⇐	⇐	⇐

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 tables herein and see last page for main jet 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	⇐	⇐	⇐	⇐	⇐	2
Jet needle	6DGK11-58	⇐	⇐	⇐	⇐	⇐	2
Needle position	3	⇐	⇐	⇐	⇐	⇐	—
Slide cut-away	2.0	⇐	⇐	⇐	⇐	⇐	2
Pilot jet	17.5	⇐	⇐	⇐	⇐	⇐	2
Mixture screw	na	⇐	⇐	⇐	⇐	⇐	—
Valve seat	1.5	⇐	⇐	⇐	⇐	⇐	2
Needle jet	P-0M	⇐	⇐	⇐	⇐	⇐	2
Float level	mm	na	⇐	⇐	⇐	⇐	—
Idle	RPM ± 200	1600	⇐	⇐	⇐	⇐	—
Idle throttle valve position	mm	2.0	2.1	⇐	2.2	2.3	⇐

Main Jet Chart

Altitude ⇒ Temperature ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
-40°C -40°F	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

EXPEDITION TUV 600 SDI

Drive Pulley

Altitude ⇒ Clutching ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Yellow/Orange 414 689 700	⇐	⇐	Violet/Yellow 415 015 300	⇐	⇐
Ramp	417 222 596 (410)	⇐	⇐	417 222 515 (412)	⇐	⇐
Calibration Screw Position	3	4	5	4	5	6
Pin	417 004 308 (Solid)	⇐	⇐	417 222 477 (Hollow- threaded) 1 x 206 261 699 set screw	⇐	⇐
Engagement RPM ± 100	3000	⇐	⇐	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	Blue (ACS 3-188) 417 119 100	⇐	⇐	⇐	⇐	⇐
Spring tension	Kg ± 0.7 7.7 kg 16.9 lb	⇐	⇐	⇐	⇐	⇐
Cam angle (degrees)	35°-30°	⇐	⇐	⇐	⇐	⇐

Additional information: At 1800 m (6000 ft), unscrew red RAVE screw to be flush with cap and, using B.U.D.S., adjust idle speed to 4.9° (± 0.1°).

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
Refer to tables herein for part numbers.		

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

NOTE: Shaded column gives factory settings.

MXZ 600 SDI R 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	Blue/Yellow 414 689 500	⇐	⇐	Green/Blue 414 768 200	⇐	⇐
Ramp	417 222 596 (410)	⇐	⇐	417 222 515 (412)	⇐	⇐
Calibration Screw Position	4	5	6	3	4	5
Pin	417 004 308 (Solid)	⇐	⇐	417 222 477 (Hollow- threaded) 1 x 206 261 699 set screw	⇐	⇐
Engagement RPM ± 100	3800	⇐	⇐	4400	⇐	⇐
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	⇐	⇐	Violet 414 978 300	⇐	⇐
Spring tension	Kg ± 0.7 lb ± 1.5	0.0	⇐	⇐	⇐	⇐
Cam angle	47°-44° (anodised) 417 126 385	⇐	⇐	40° 417 126 591	⇐	⇐

Additional information: At 1800 m (6000 ft), unscrew red RAVE screw to be flush with cap and, using B.U.D.S., adjust idle speed screw to 4.9° (± 0.1°).
At and above 2400 m (8000 ft) or in deep snow, you may use 22 tooth sprocket (P/N 504 083 500) to get a chaincase ratio of 22/43.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
Refer to tables herein for part numbers.		

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

NOTE: Shaded column gives factory settings.

GSX 600 SDI R SPORT / LIMITED / GTX SPORT / LIMITED 136 / GTX EUROPE (ALL)

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/Yel- low 414 689 500	⇐	⇐	Vio- let/Yellow 415 015 300	⇐	⇐
Ramp	417 222 596 (410)	⇐	⇐	⇐	⇐	⇐
Calibration Screw Position	4	5	6	4	5	6
Pin	417 004 308 (Solid)	⇐	⇐	417 222 477 (Hollow- threaded) 1 x 206 261 699 set screw	⇐	⇐
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	47°-44° (anodised) 417 126 385	⇐	⇐	⇐	⇐	⇐

Additional information: At 1800 m (6000 ft) unscrew red RAVE screw to be flush with cap and, using B.U.D.S., adjust idle speed screw to 4.9° (± 0.1°).

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
Refer to tables herein for part numbers.		

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

NOTE: Shaded column gives factory settings.

MXZ 600 SDI R RENEGADE 1.25 / RENEGADE X 1.25 / RENEGADE 1.75 / RENEGADE X 1.75

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/Yel- low 414 689 500	⇐	⇐	Green/Blue 414 768 200	⇐	⇐
Ramp	417 222 596 (410)	⇐	⇐	417 222 515 (412)	⇐	⇐
Calibration Screw Position	4	5	6	3	4	5
Pin	417 004 308 (Solid)	⇐	⇐	417 222 477 (Hollow- threaded) 1 x 206 261 699 set screw	⇐	⇐
Engagement RPM ± 100	3800	⇐	⇐	4400	⇐	⇐
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	⇐	⇐	Violet 414 978 300	⇐	⇐
Spring tension	Kg ± 0.7 lb ± 1.5	0.0	⇐	⇐	⇐	⇐
Cam angle	° (anodised) 417 126 445	⇐	⇐	40° 417 126 591	⇐	⇐

Additional information: At 1800 m (6000 ft), unscrew red RAVE screw to be flush with cap and, using B.U.D.S., adjust idle speed screw to 4.9° (± 0.1°). At and above 2400 m (8000 ft) or in deep snow, **EXCEPT FOR MXZ 600 HO R SDI Renegade 1.75**, you may use a 19 tooth sprocket (P/N 504 152 030) to get a chaincase ratio of 19/43.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
Refer to tables herein for part numbers.		

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

NOTE: Shaded column gives factory settings.

MXZ 800 HO R 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/Green 415 015 400	⇐	⇐	⇐	⇐	⇐
Ramp	417 222 546 (414)	⇐	⇐	⇐	⇐	⇐
Calibration Screw Position	3	4	5	3	4	5
Pin	417 222 594 (Solid- Long)	⇐	⇐	417 222 595 (Long- Threaded)	⇐	⇐
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	⇐	⇐	⇐	⇐	⇐
Cam angle	50°-40° (degrees) 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
Refer to tables herein and see last page for main jet 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	400	380	350	330	300	280	2	
Jet needle	9DG116-58	⇐	⇐	⇐	⇐	⇐	2	
Needle position	1	⇐	⇐	⇐	⇐	⇐	—	
Slide cut-away	2.0	⇐	⇐	⇐	⇐	⇐	2	
Pilot jet	17.5	⇐	⇐	⇐	⇐	⇐	2	
Mixture screw	1.5	⇐	⇐	⇐	⇐	⇐	—	
Valve seat	1.5	⇐	⇐	⇐	⇐	⇐	2	
Needle jet	P-0M	⇐	⇐	⇐	⇐	⇐	2	
Float level	mm	na	⇐	⇐	⇐	⇐	—	
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	Qty
-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

MXZ 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)	⇐	⇐	417 222 595 (Long- Threaded)	⇐	⇐
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	⇐	⇐	⇐	⇐	⇐
Cam angle	50°-40° (degrees) 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
Refer to tables herein and see last page for main jet 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	440	⇐	⇐	⇐	⇐	⇐	2
Jet needle	9DG104-58	⇐	⇐	⇐	⇐	⇐	2
Needle position	na	⇐	⇐	⇐	⇐	⇐	—
Slide cut-away	2.0	⇐	⇐	⇐	⇐	⇐	2
Pilot jet	17.5	⇐	⇐	⇐	⇐	⇐	2
Mixture screw	1.5	⇐	⇐	⇐	⇐	⇐	—
Valve seat	1.5	⇐	⇐	⇐	⇐	⇐	2
Needle jet	P-0M	⇐	⇐	⇐	⇐	⇐	2
Float level	mm	na	⇐	⇐	⇐	⇐	—
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	Qty
-40°C -40°F	⇐	⇐	⇐	⇐	⇐	⇐	PTO MAG
-30°C -20°F	⇐	⇐	⇐	⇐	⇐	⇐	PTO MAG
-20°C -4°F	440	⇐	⇐	⇐	⇐	⇐	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

MXZ 800 HO R RENEGADE 1.25 / RENEGADE X 1.25

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/Violet 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° 417 126 724	⇐	⇐	⇐	⇐

Additional information: At and above 2400 m (8000 ft) or in deep snow, you may use a 21 tooth sprocket (P/N 504 096 200) to get a chaincase ratio of 21/43.

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 tables herein and see last page for main jet 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	440	⇐	⇐	⇐	⇐	⇐	2
Jet needle	9DG104-58	⇐	⇐	⇐	⇐	⇐	2
Needle position	na	⇐	⇐	⇐	⇐	⇐	—
Slide cut-away	2.0	⇐	⇐	⇐	⇐	⇐	2
Pilot jet	17.5	⇐	⇐	⇐	⇐	⇐	2
Mixture screw	1.5	⇐	⇐	⇐	⇐	⇐	—
Valve seat	1.5	⇐	⇐	⇐	⇐	⇐	2
Needle jet	P-0M	⇐	⇐	⇐	⇐	⇐	2
Float level	mm	na	⇐	⇐	⇐	⇐	—
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	Qty
-40°C -40°F	⇐	⇐	⇐	⇐	⇐	⇐	PTO MAG
-30°C -20°F	⇐	⇐	⇐	⇐	⇐	⇐	PTO MAG
-20°C -4°F	440	⇐	⇐	⇐	⇐	⇐	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

MXZ 800 HO R RENEGADE X 1.75 / RENEGADE 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/Green 415 015 400	⇐	⇐	Green/Violet 414 762 800	⇐	⇐
Ramp	417 222 548 (415)	⇐	⇐	⇐	⇐	⇐
Calibration Screw Position	3	4	5	3	4	5
Pin	417 004 308 (Solid)	⇐	⇐	⇐	⇐	⇐
Engagement RPM ± 100	3800	⇐	4100	4200	⇐	4300
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° 417 126 724	⇐	⇐	⇐	⇐	⇐

Additional information: At and above 2400 m (8000 ft) or in deep snow, for **RENEGADE X 1.75 only**, you may use a 19 tooth sprocket (P/N 504 152 030) to get a chaincase ratio of 19/43. At and above 2400 m (8000 ft) or in deep snow, for **RENEGADE Europe Model only**, you may use a 21 tooth sprocket (P/N 504 096 200) to get a chaincase ratio of 21/43.

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 tables herein and see last page for main jet 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	440	⇐	⇐	⇐	⇐	⇐	2	
Jet needle	9DG104-58	⇐	⇐	⇐	⇐	⇐	2	
Needle position	na	⇐	⇐	⇐	⇐	⇐	—	
Slide cut-away	2.0	⇐	⇐	⇐	⇐	⇐	2	
Pilot jet	17.5	⇐	⇐	⇐	⇐	⇐	2	
Mixture screw	1.5	⇐	⇐	⇐	⇐	⇐	—	
Valve seat	1.5	⇐	⇐	⇐	⇐	⇐	2	
Needle jet	P-0M	⇐	⇐	⇐	⇐	⇐	2	
Float level	mm	na	⇐	⇐	⇐	⇐	—	
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	Qty
-40°C -40°F	⇐	⇐	⇐	⇐	⇐	⇐	PTO MAG
-30°C -20°F	⇐	⇐	⇐	⇐	⇐	⇐	PTO MAG
-20°C -4°F	440	⇐	⇐	⇐	⇐	⇐	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

GTX 800 HO R LIMITED 136

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	⇐	⇐	Blue/Pink 414 916 300	⇐	⇐
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	7950	⇐	⇐	⇐	⇐	⇐

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	° (degree)	47°-40° 417 126 724	⇐	⇐	⇐	⇐

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 tables herein and see last page for main jet 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	440	⇐	⇐	⇐	⇐	⇐	2	
Jet needle	9EG104-58	⇐	⇐	⇐	⇐	⇐	2	
Needle position	na	⇐	⇐	⇐	⇐	⇐	—	
Slide cut-away	2.0	⇐	⇐	⇐	⇐	⇐	2	
Pilot jet	17.5	⇐	⇐	⇐	⇐	⇐	2	
Mixture screw	1.5	⇐	⇐	⇐	⇐	⇐	—	
Valve seat	1.5	⇐	⇐	⇐	⇐	⇐	2	
Needle jet	P-0M	⇐	⇐	⇐	⇐	⇐	2	
Float level	mm	na	⇐	⇐	⇐	⇐	—	
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	Qty
-40°C -40°F	470	⇐	⇐	⇐	⇐	⇐	PTO MAG
-30°C -20°F	460	⇐	⇐	⇐	⇐	⇐	PTO MAG
-20°C -4°F	440	⇐	⇐	⇐	⇐	⇐	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

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	↔	↔	↔	↔	↔
Cam angle	50°-40° 417 126 721 (degrees)	↔	↔	↔	↔	↔

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 tables herein and see last page for main jet 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	440	↔	↔	↔	↔	↔	2
Jet needle	9DG104-58	↔	↔	↔	↔	↔	2
Needle position	na	↔	↔	↔	↔	↔	—
Slide cut-away	2.0	↔	↔	↔	↔	↔	2
Pilot jet	17.5	↔	↔	↔	↔	↔	2
Mixture screw	1.5	↔	↔	↔	↔	↔	—
Valve seat	1.5	↔	↔	↔	↔	↔	2
Needle jet	P-0M	↔	↔	↔	↔	↔	2
Float level	mm	na	↔	↔	↔	↔	—
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	Qty
-40°C -40°F	↔	↔	↔	↔	↔	↔	PTO MAG
-30°C -20°F	↔	↔	↔	↔	↔	↔	PTO MAG
-20°C -4°F	440	↔	↔	↔	↔	↔	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

SUMMIT 800 HO R ADRENALINE 144, 151 / X 144, 151

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	⇐	417 222 548 (415)	⇐	⇐	⇐	⇐
Calibration Screw Position	3	1	2	3	4	5
Pin	417 222 594 (Solid- Long)	417 222 595 (Hollow- Threaded) 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	⇐	⇐	⇐

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 tables herein and see last page for main jet 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	⇐	400	⇐	⇐	⇐	⇐	2	
Jet needle	⇐	9EGY02 58	⇐	⇐	⇐	⇐	2	
Needle position	⇐	3	⇐	⇐	⇐	⇐	—	
Slide cut- away	⇐	2.0	⇐	⇐	⇐	⇐	2	
Pilot jet	⇐	17.5	⇐	⇐	⇐	⇐	2	
Mixture screw	⇐	na	⇐	⇐	⇐	⇐	—	
Valve seat	⇐	1.5	⇐	⇐	⇐	⇐	2	
Needle jet	⇐	P-0M	⇐	⇐	⇐	⇐	2	
Float level	mm	⇐	na	⇐	⇐	⇐	—	
Idle	RPM ± 200	⇐	1500	⇐	⇐	⇐	—	
Idle throt- tle valve posi- tion	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	Qty
-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

SUMMIT 800 HO R ADRENALINE 151 (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/Green 415 015 400	Violet/Yellow 415 015 300	⇐	⇐	⇐	⇐
Ramp	417 222 548 (415)	⇐	⇐	⇐	⇐	⇐
Calibration Screw Position	3	1	2	3	4	5
Pin	417 004 308 (Solid)	417 222 595 (Hollow- Threaded) 1 x 206 261 299 set screw	⇐	⇐	417 222 595 (Hollow- Threaded)	⇐
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° 417 126 445	⇐	⇐	⇐	⇐

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 tables herein and see last page for main jet 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	400	⇐	⇐	⇐	⇐	⇐	2	
Jet needle	9EGY02 58	⇐	⇐	⇐	⇐	⇐	2	
Needle position	3	⇐	⇐	⇐	⇐	⇐	—	
Slide cut- away	2.0	⇐	⇐	⇐	⇐	⇐	2	
Pilot jet	17.5	⇐	⇐	⇐	⇐	⇐	2	
Mixture screw	na	⇐	⇐	⇐	⇐	⇐	—	
Valve seat	1.5	⇐	⇐	⇐	⇐	⇐	2	
Needle jet	P-0M	⇐	⇐	⇐	⇐	⇐	2	
Float level	mm	na	⇐	⇐	⇐	⇐	—	
Idle	RPM ± 200	1500	⇐	⇐	⇐	⇐	—	
Idle thro- t- tle valve posi- tion	mm	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	Qty
-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

SUMMIT 800 HO R 159 2.25 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/Yellow 415 015 300	⇐	⇐	⇐	⇐
Ramp	⇐	417 222 548 (415)	⇐	⇐	⇐	⇐
Calibration Screw Position	3	1	2	3	4	5
Pin	417 222 594 (Solid- Long)	417 222 595 (Hollow- Threaded) 1 x 206 261 299 set screw	⇐	⇐	417 222 595 (Hollow- Threaded)	⇐
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° 417 126 830	⇐	⇐	⇐

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 tables herein and see last page for main jet 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	⇐	400	⇐	⇐	⇐	⇐	2	
Jet needle	⇐	9EGY02 58	⇐	⇐	⇐	⇐	2	
Needle position	⇐	3	⇐	⇐	⇐	⇐	—	
Slide cut- away	⇐	2.0	⇐	⇐	⇐	⇐	2	
Pilot jet	⇐	17.5	⇐	⇐	⇐	⇐	2	
Mixture screw	⇐	na	⇐	⇐	⇐	⇐	—	
Valve seat	⇐	1.5	⇐	⇐	⇐	⇐	2	
Needle jet	⇐	P-0M	⇐	⇐	⇐	⇐	2	
Float level	mm	⇐	na	⇐	⇐	⇐	—	
Idle	RPM ± 200	⇐	1500	⇐	⇐	⇐	—	
Idle throt- tle valve posi- tion	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	Qty
-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

=> SUMMIT HM / HIGHMARK X (RT)

Drive Pulley (TRA V)

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/White 414 991 400	↕	↕	Violet/Yellow 415 015 300	↕
Ramp	↕	417 222 799 (3X) (433)	↕	↕	417 222 546 (3X) (414)	↕
Calibration Screw Position	6	2	3	4	3	4
Pin	↕	417 004 309 (3X) Hollow	↕	↕	417 222 595 (3X) Long- Threaded and 206 262 599 (3X) Set Screw	↕
Lever	↕	417 222 812 (3X) Steel	↕	↕	417 222 671 (3X) Alum	↕
Cotter Pin / Pin Screw	↕	414 222 813 (3X) Pin Screw	↕	↕	732 958 001 (3X) Cotter Pin	↕
Roller Assembly	↕	417 222 762 (3X)	↕	↕	417 003 900 (3X)	↕
Stopper Washer	↕	417 004 302 (6X)	↕	↕	↕	↕
Engagement RPM ± 100	↕	3500	↕	↕	4000	↕
Maximum RPM ± 100	↕	7900	↕	↕	↕	↕

Vehicle Calibration

Altitude => Description ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
ECM Calibrati File from B.U.D.S.	420 664 611	420 664 619	↕	↕	↕	↕
Decompressor	↕	420 231 135 (2X)	↕	↕	↕	↕
TPS Angle	4.6°	5.0°	↕	↕	↕	↕
Upper Chaincase Sprocket	23T 504 091 000	21T 504 096 200	↕	↕	↕	↕
Lower Chaincase Sprocket	↕	49T 504 152 441	↕	↕	↕	↕
Rear Suspension Stopper Strap	↕	4 - 1	↕	3 - 2	↕	↕

CAUTION: These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions.

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

NOTE: Shaded column gives factory settings.

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°-30° 417 126 803	↕	↕	↕

=> SUMMIT HM (EUROPE) (RT)

Drive Pulley (TRA V)

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	↔	↔	Violet/Yellow 415 015 300	↔	↔
Ramp	417 222 444 (3X) (600)	↔	↔	417 222 546 (3X) (414)	↔	↔
Calibration Screw Position	3	4	5	2	3	4
Pin	417 004 309 (3X) Hollow	↔	↔	417 222 595 (3X) Long-Threaded and 206 262 599 (3X) Set Screw	↔	↔
Lever	417 222 812 (3X) Steel Lever	↔	↔	417 222 671 (3X) Alu. Lever	↔	↔
Cotter Pin / Pin Screw	414 222 813 (3X) Pin Screw	↔	↔	732 958 001 (3X) Cotter Pin	↔	↔
Roller Assembly	417 222 762 (3X)	↔	↔	417 003 900 (3X)	↔	↔
Stopper Washer	417 004 302 (6X)	↔	↔	↔	↔	↔
Engagement RPM ± 100	3400	↔	↔	4000	↔	↔
Maximum RPM ± 100	7900	↔	↔	↔	↔	↔

Vehicle Calibration

Altitude => Description ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
ECM Calibrati File from B.U.D.S.	420 664 611	↔	↔	420 664 619	↔	↔
Decompressor	↔	↔	↔	420 231 135 (2X)	↔	↔
TPS Angle	4.6°	↔	↔	5.0°	↔	↔
Higher Sprocket	23T 504 091 000	↔	↔	21T 504 096 200	↔	↔
Lower Sprocket	49T 504 152 441	↔	↔	↔	↔	↔

CAUTION: These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions.

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

NOTE: Shaded column gives factory settings.

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 (degree)	44°-30° 417 126 803	↔	↔	↔	↔	↔

=> MACH Z ADRENALINE (RT)

Drive Pulley (TRA V)

Altitude => Clutching ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Green/Violet 414 762 800	↔	↔	↔	Violet/Yellow 415 015 300	↔
Ramp	417 222 815 (3X) (434)	↔	↔	↔	417 222 546 (3X) (414)	↔
Calibration Screw Position	6	2	3	4	3	4
Pin	417 004 309 (3X) Hollow	↔	↔	↔	417 222 595 (3X) Long-Threaded and 206 262 599 (3X) Set Screw	↔
Lever	417 222 812 (3X) Steel Lever	↔	↔	↔	417 222 671 (3X) Alu.	↔
Cotter Pin / Pin Screw	414 222 813 (3X) Pin Screw	↔	↔	↔	732 958 001 (3X) Cotter Pin	↔
Roller Assembly	417 222 762 (3X)	↔	↔	↔	417 003 900 (3X)	↔
Stopper Washer	417 004 302 (6X)	↔	↔	↔	↔	↔
Engagement RPM ± 100	3400	↔	↔	↔	4000	↔
Maximum RPM ± 100	7900	↔	↔	↔	↔	↔

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	(degree) 44°-30° 417 126 803	↔	↔	↔	↔	↔

Vehicle Calibration

Altitude => Description ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
ECM Calibration File from B.U.D.S.	*420 664 611	↔	↔	420 664 619	↔	↔
Decompressor	↔	↔	↔	420 231 135 (2X)	↔	↔
TPS Angle	4.6°	↔	↔	5.0°	↔	↔
Upper Sprocket	29T 504 152 442	↔	↔	21T 504 096 200 or 23T 504 091 000	↔	↔
Lower Sprocket	49T 504 152 412	↔	↔	49T 504 152 441	↔	↔
Chain	82 504 152 415	↔	↔	**80 504 152 522	↔	↔

* Use calibration file 420 664 613 after Service Bulletin 2005-11 has been performed.

** A chain tentioner must be added.

CAUTION: These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions.

NOTE: Special price exists on kit, call for pricing and availability.

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

NOTE: Shaded column gives factory settings.

LEGEND V-1000 SPORT, SE 121 / SE 136

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/Yel- low 414 817 800	⇐	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	⇐	⇐	⇐	⇐	⇐
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.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
Refer to tables herein for part numbers.		

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

NOTE: Shaded column gives factory settings.

EXPEDITION TUV V-1000

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/Orange 415 015 200	⇐	⇐	⇐	⇐	⇐
Ramp	417 222 569 (607)	⇐	⇐	⇐	⇐	⇐
Calibration Screw Position	4	5	3	4	5	6
Pin	417 222 594 (Solid-Long)	⇐	417 004 309 (Hollow)	⇐	⇐	⇐
Engagement RPM ± 100	2500	⇐	⇐	⇐	⇐	⇐
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	Blue 417 126 689	⇐	⇐	⇐	⇐	⇐
Spring tension	Kg ± 0.7 7.0 kg lb ± 1.5 15.4 lb	⇐	⇐	⇐	⇐	⇐
Cam angle	40°-30° (degree)M140057	⇐	⇐	⇐	⇐	⇐

CAUTION: These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions.

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

NOTE: Shaded column gives factory settings.

ELITE

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/Yel- low 414 817 800	⇐	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 7.0 kg lb ± 1.5 15.4 lb	⇐	⇐	⇐	⇐	⇐
Cam angle	47°-30° (degrees) 417 126 843	⇐	44°-30° 417 126 803	⇐	⇐	⇐

CAUTION: These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow conditions.

PARTS TO BE INSTALLED

P/N	DESCRIPTION	QTY
Refer to tables herein for part numbers.		

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

NOTE: Shaded column gives factory settings.

MAIN JETS CHART

TYPE	BRP P/N	TYPE	BRP P/N	TYPE	BRP P/N
90	404 132 900	180	404 112 200	310	404 107 800
100	404 132 000	185	404 119 500	320	404 101 300
105	404 132 100	190	404 119 000	330	404 101 400
110	404 124 100	195	404 119 400	340	404 104 900
115	404 124 000	200	404 112 300	350	404 106 000
120	404 123 900	205	404 159 200	360	404 106 100
125	404 124 800	210	404 119 100	370	404 106 200
130	404 124 900	215	404 161 979	380	404 106 300
135	404 130 400	220	404 111 200	390	404 106 400
140	404 126 600	230	404 118 900	400	404 100 900
145	404 130 500	240	404 100 200	410	404 101 000
150	404 120 900	250	404 100 300	420	404 107 900
155	404 128 700	260	404 100 600	430	404 108 000
160	404 118 200	270	404 100 400	440	404 108 100
165	404 119 300	280	404 100 500	460	404 106 600
170	404 123 800	290	404 101 100	470	404 106 700
175	404 119 200	300	404 101 200		