



SNOWMOBILES
SERVICE
Bulletin



October 26, 2009

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

No.

2010-5

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
2010	All	All	All

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GENERAL INFORMATION

Previous Model Year Vehicles

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

MODEL YEAR	LATEST REVISION OF BULLETIN NO.
2009	2009-5
2008	2008-6
2007	2007-1
2006	2006-2
2005	2005-6
2004	2004-2
2003	2003-5
2002	2002-5
2001	2001-1 and 2001-2
2000	2000-1 and 2000-2
1999 and previous	Refer to latest revision of <i>HIGH ALTITUDE AND SEA LEVEL DATA</i> booklet, (P/N 484 300 003)

NOTE: Throughout this entire document, shaded areas give factory settings (that could apply through different altitudes) while N/A stands for "not applicable".

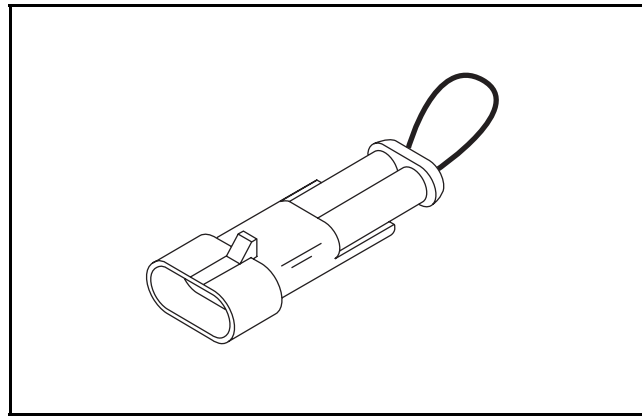
CAUTION The following modifications and adjustments apply for high altitude operation as well as sea level operation.

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

Reverse Connector

The reverse connector (P/N 515 174 700) is used at 1 800 m (6,000 ft) altitude and higher for all FAN cooled models with electronic reverse device. To use Reverse Connector proceed as follows:

1. Unplug existing sea level cap from the ECM.
2. Plug-in the reverse connector.

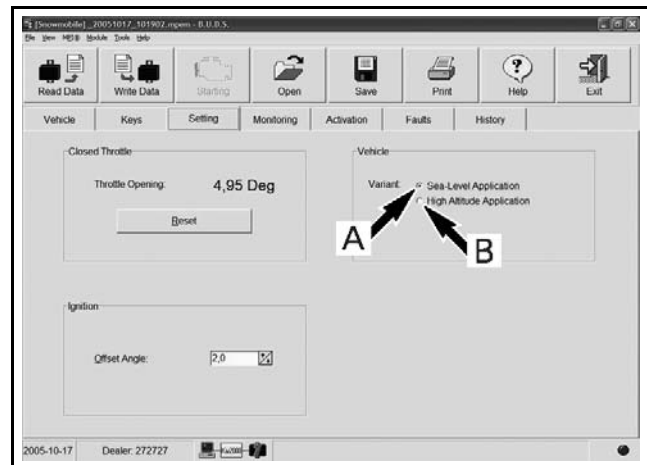


REVERSE CONNECTOR

600 H.O. SDI, ECM Recalibration

For ECM Recalibration on 600 H.O. SDI, proceed as follows:

1. Enter B.U.D.S..
2. Select "Settings", the following screen appears.



- A. Sea level check box
B. Altitude check box

3. Select:
 - A) *Sea-Level Application* or
 - B) *High Altitude Application* in the *Vehicle/Variant* box and then, click on the **Write Data** icon.

IDLE SPEED SCREW ADJUSTMENT

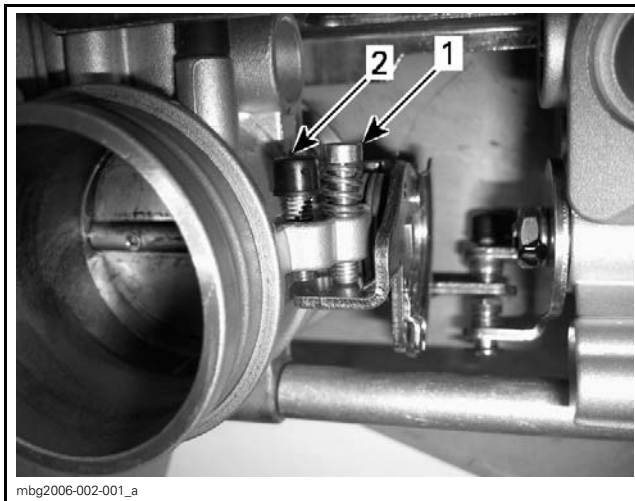
600 SDI Only

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.

1. Remove the air intake silencer.
2. Disconnect the air valve connector.
3. Unscrew idle speed screw [1] until the throttle body plate stop lever rests against its zero position stopper screw (capped screw) [2]. 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.

4. Select the vehicle's protocol in **Choose Protocol** from the **MPI** menu. The protocol is KW 2000.
5. Remove the protective cap from the 6 pin connector on the vehicle.
6. Connect the B.U.D.S. harness 6 pin adapter directly to the 6 pin vehicle connector.
7. Turn the engine shutdown switch to the engine off position.
8. Insert the grey DESS cap (P/N 529 035 896).
9. Press the start button to wake up the ECM.
10. Press the **Read Data** button.
11. Click on **Setting** tab.
12. 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.**

13. Click OK to continue.

14. 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.

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

16. 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 appropriate value.
17. Ensure to save new data by clicking on the **Write Data** button.
 18. If throttle cable has been loosened during the procedure, adjust throttle cable.
 19. Reinstall all removed parts. Start engine and make sure it operates normally through its full engine RPM range.

GSX® SPORT 550F GTX SPORT 550F RENEGADE 550F

Drive Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Yellow/ Yellow(P/N 414 748 600)					
Ramp	600 (P/N 417 222 444)					
Calibration Screw Position	3	4	2	3	4	5
Pin	Short solid 32 mm/ 16,75g (P/N 417 004 308)			Short no thread 32 mm/ 9,9 g (P/N 417 004 309)		
Engagement RPM ± 100	3000					
Maximum RPM ± 100	6800					
CLUTCHING	ADJUSTMENT					

Driven Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Brown (P/N 417 127 061)					
Spring tension Kg ± 0.7 (lb ± 1.5)	N/A					
Cam angle (degrees)	44° (P/N 417 126 574)					
CLUTCHING	ADJUSTMENT					

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

Carburetion (Refer to appropriate Specification Booklet for part numbers)

		ALTITUDE						
		Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
Main jet	MAG	190	180	170	160	140	130	1
	PTO	200	190					1
Jet needle	6BFY46							2
Needle position	3			2				—
Slide cut-away	2.5							2
Pilot jet	35			45		55		2
Mixture screw	1.25							—
Valve seat	1.2							2
Needle jet	P-8 (159)					P-6 (159)		2
Float level (± 1 mm)	23.9							—
Idle RPM (± 200)	1650							—
Idle throttle valve position (± 0.1 mm)	1.6			1.8	2	2.2	2.4	—
CALIBRATION	ADJUSTMENT							QTY

Main Jet Chart (Refer to last page table for part numbers)

		ALTITUDE					
		Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
-40°C (-40°F)	MAG	200	190	180	170	150	140
	PTO	210	200				
-30°C (-22°F)	MAG	195	185	175	165	145	135
	PTO	205	195				
-20°C (-4°F)	MAG	190	180	170	160	140	130
	PTO	200	190				
-10°C (14°F)	MAG	185	175	165	155	135	125
	PTO	195	185				
0°C (32°F)	MAG	180	170	160	150	130	120
	PTO	190	180				
10°C (50°F)	MAG	175	165	155	145	125	115
	PTO	185	175				
20°C (68°F)	MAG	170	160	150	140	120	110
	PTO	180	170				
TEMPERATURE	CARBURATOR	MAIN JETS					

Additional Information

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Reverse connector	(P/N 515 174 800)			(P/N 515 174 700) Connect to ECM		
INFOS	ADJUSTMENT					

MXZ TNT 550F

Drive Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Blue/ Orange (P/N 414 639 000)		Purple/ Blue(P/N 415 034 900)			
Ramp	412 (P/N 417 222 515)					
Calibration Screw Position	3	4	2	3	4	5
Pin	Short no thread 32 mm 9,9 g (P/N 417 004 309)					
Engagement RPM \pm 100	3900					
Maximum RPM \pm 100	6800					
CLUTCHING	ADJUSTMENT					

Driven Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Brown (P/N 417 127 061)					
Spring tension Kg \pm 0.7 (lb \pm 1.5)	N/A					
Cam angle (degrees)	44° (P/N 417 126 574)					
CLUTCHING	ADJUSTMENT					

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

Carburetion (Refer to appropriate Specification Booklet for part numbers)

		ALTITUDE						
		Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
Main jet	MAG	190	180	170	160	140	130	1
	PTO	200	190					1
Jet needle		6BFY46						2
Needle position		3			2			—
Slide cut-away		2.5						2
Pilot jet		35		45		55		2
Mixture screw		1.25						—
Valve seat		1.2						2
Needle jet		P-8 (159)				P-6 (159)		2
Float level (± 1 mm)		23.9						—
Idle RPM (± 200)		1650						—
Idle throttle valve position (± 0.1 mm)		1.6		1.8	2	2.2	2.4	—
CALIBRATION		ADJUSTMENT						QTY

Main Jet Chart (Refer to last page table for part numbers)

		ALTITUDE					
		Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
-40°C (-40°F)	MAG	200	190	180	170	150	140
	PTO	210	200				
-30°C (-22°F)	MAG	195	185	175	165	145	135
	PTO	205	195				
-20°C (-4°F)	MAG	190	180	170	160	140	130
	PTO	200	190				
-10°C (14°F)	MAG	185	175	165	155	135	125
	PTO	195	185				
0°C (32°F)	MAG	180	170	160	150	130	120
	PTO	190	180				
10°C (50°F)	MAG	175	165	155	145	125	115
	PTO	185	175				
20°C (68°F)	MAG	170	160	150	140	120	110
	PTO	180	170				
TEMPERATURE	CARBURATOR	MAIN JETS					

Additional Information

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Reverse connector	(P/N 515 174 800)			(P/N 515 174 700) Connect to ECM		
INFOS	ADJUSTMENT					

SKANDIC TUNDRA 550F

SKANDIC TUNDRA SPORT 550F

SKANDIC TUNDRA LT 550F

Drive Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Red/Yellow (P/N 414 817 500)					
Ramp	600 (P/N 417 222 444)					
Calibration Screw Position	3	4	2	3	4	5
Pin	Short solid 32 mm/ 16,75g (P/N 417 004 308)			Short no thread 32 mm/ 9,9 g (P/N 417 004 309)		
Engagement RPM \pm 100	2400					
Maximum RPM \pm 100	6800					
CLUTCHING	ADJUSTMENT					

Driven Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Brown (P/N 417 127 061)					
Spring tension Kg \pm 0.7 (lb \pm 1.5)	N/A					
Cam angle (degrees)	44° (P/N 417 126 574)					
CLUTCHING	ADJUSTMENT					

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

Carburetion (Refer to appropriate Specification Booklet for part numbers)

		ALTITUDE						
		Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
Main jet	MAG	190	180	170	160	140	130	1
	PTO	200	190					1
Jet needle		6BFY46						2
Needle position		3			2			—
Slide cut-away		2.5						2
Pilot jet		35		45		55		2
Mixture screw		1.25						—
Valve seat		1.2						2
Needle jet		P-8 (159)				P-6 (159)		2
Float level (± 1 mm)		23.9						—
Idle RPM (± 200)		1650						—
Idle throttle valve position (± 0.1 mm)		1.6		1.8	2	2.2	2.4	—
CALIBRATION		ADJUSTMENT						QTY

Main Jet Chart (Refer to last page table for part numbers)

		ALTITUDE					
		Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
-40°C (-40°F)	MAG	200	190	180	170	150	140
	PTO	210	200				
-30°C (-22°F)	MAG	195	185	175	165	145	135
	PTO	205	195				
-20°C (-4°F)	MAG	190	180	170	160	140	130
	PTO	200	190				
-10°C (14°F)	MAG	185	175	165	155	135	125
	PTO	195	185				
0°C (32°F)	MAG	180	170	160	150	130	120
	PTO	190	180				
10°C (50°F)	MAG	175	165	155	145	125	115
	PTO	185	175				
20°C (68°F)	MAG	170	160	150	140	120	110
	PTO	180	170				
TEMPERATURE	CARBURATOR	MAIN JETS					

Additional Information

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Reverse connector	(P/N 515 174 800)			(P/N 515 174 700) Connect to ECM		
INFOS	ADJUSTMENT					

SKANDIC SUV 550F SKANDIC WT 550F

Drive Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Yellow/ Green (P/N 414 742 100)					
Ramp	600 (P/N 417 222 444)					
Calibration Screw Position	3	4	5	3	4	
Pin	Short solid 32 mm/ 16,75g (P/N 417 004 308)			Short no thread 32 mm/ 9,9 g (P/N 417 004 309)		
Engagement RPM \pm 100	2800	3000	3200	3400		
Maximum RPM \pm 100	6900					
CLUTCHING	ADJUSTMENT					

Driven Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	orange/ blue/blue (P/N 417 119 100)					
Spring tension Kg \pm 0.7 (lb \pm 1.5)	8 kgf (17.6 lbf)					
Cam angle (degrees)	40° - 30° (P/N 619 100 035)					
CLUTCHING	ADJUSTMENT					

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

Carburetion (Refer to appropriate Specification Booklet for part numbers)

		ALTITUDE						
		Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
Main jet	MAG	190	180	170	160	150	140	1
	PTO							1
Jet needle		6BFY46						2
Needle position		2			1			—
Slide cut-away		2.0						2
Pilot jet		40						2
Mixture screw		2.5			2			—
Valve seat		1.2						2
Needle jet		P-8 (159)						2
Float level (± 1 mm)		23.9						—
Idle RPM (± 200)		1650						—
Idle throttle valve position (± 0.1 mm)		1.5	1.7	1.8	2	2.1	2.2	—
CALIBRATION		ADJUSTMENT						QTY

Main Jet Chart (Refer to last page table for part numbers)

		ALTITUDE					
		Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
-40°C (-40°F)	MAG	210	200	190	180	170	160
	PTO						
-30°C (-22°F)	MAG	200	190	180	170	160	150
	PTO						
-20°C (-4°F)	MAG	190	180	170	160	150	140
	PTO						
-10°C (14°F)	MAG	180	170	160	150	140	130
	PTO						
0°C (32°F)	MAG	170	160	150	140	130	120
	PTO						
10°C (50°F)	MAG	160	150	140	130	120	110
	PTO						
20°C (68°F)	MAG	150	140	130	120	110	100
	PTO						
TEMPERATURE	CARBURATOR	MAIN JETS					

GSX SPORT 600 GTX SPORT 600

Drive Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Blue/ Purple (P/N 414 817 800)			Pink/ Purple (P/N 414 754 200)		
Ramp	412 (P/N 417 222 515)					
Calibration Screw Position	3	4	5	4	5	6
Pin	Short solid 32 mm/ 16,75g (P/N 417 004 308)			Short no thread 32 mm/ 9,9 g (P/N 417 004 309)		
Engagement RPM \pm 100	3400			3900		
Maximum RPM \pm 100	8100					
CLUTCHING	ADJUSTMENT					

Driven Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Black (P/N 417 126 687)					
Spring tension Kg \pm 0.7 (lb \pm 1.5)	8 kgf (17.6lbf)					
Cam angle (degrees)	42° (P/N 417 127 012)					
CLUTCHING	ADJUSTMENT					

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

Carburetion (Refer to appropriate Specification Booklet for part numbers)

		ALTITUDE						
		Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
Main jet	MAG	420	390	360	330	300	280	1
	PTO							1
Jet needle		9CEY2-58						2
Needle position		2						—
Slide cut-away		2.0						2
Pilot jet		17.5						2
Mixture screw		1.5			2			—
Valve seat		1.5						2
Needle jet		P-0M						2
Float level (± 1 mm)		N/A						—
Idle RPM (± 200)		1600						—
Idle throttle valve position (± 0.1 mm)		1.5	1.6	1.7	1.8	1.9		—
CALIBRATION		ADJUSTMENT						QTY

Main Jet Chart (Refer to last page table for part numbers)

		ALTITUDE					
		Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
-40°C (-40°F)	MAG	440	410	380	350	320	300
	PTO						
-30°C (-22°F)	MAG	430	400	370	340	310	290
	PTO						
-20°C (-4°F)	MAG	420	390	360	330	300	280
	PTO						
-10°C (14°F)	MAG	410	380	350	320	290	270
	PTO						
0°C (32°F)	MAG	400	370	340	310	280	260
	PTO						
10°C (50°F)	MAG	390	360	330	300	270	250
	PTO						
20°C (68°F)	MAG	380	350	320	290	260	240
	PTO						
TEMPERATURE	CARBURATOR	MAIN JETS					

MXZ SPORT 600

MXZ TNT 600

Drive Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Purple/ Purple (P/N 414 817 900)			Pink/ Purple (P/N 414 754 200)		
Ramp	412 (P/N 417 222 515)					
Calibration Screw Position	3	4	5	4	5	6
Pin	Short solid 32 mm/ 16,75g (P/N 417 004 308)			Short no thread 32 mm/ 9,9 g (P/N 417 004 309)		
Engagement RPM \pm 100	3800			3900	4100	
Maximum RPM \pm 100	8100					
CLUTCHING	ADJUSTMENT					

Driven Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Black (P/N 417 126 687)					
Spring tension Kg \pm 0.7 (lb \pm 1.5)	N/A					
Cam angle (degrees)	42° (P/N 417 127 012)					
CLUTCHING	ADJUSTMENT					

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

Carburetion (Refer to appropriate Specification Booklet for part numbers)

		ALTITUDE						
		Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
Main jet	MAG	420	390	360	330	300	280	1
	PTO							1
Jet needle		9CEY2-58						2
Needle position		2						—
Slide cut-away		2.0						2
Pilot jet		17.5						2
Mixture screw		1.5			2			—
Valve seat		1.5						2
Needle jet		P-0M						2
Float level (± 1 mm)		N/A						—
Idle RPM (± 200)		1600						—
Idle throttle valve position (± 0.1 mm)		1.5	1.6	1.7	1.8	1.9		—
CALIBRATION		ADJUSTMENT						QTY

Main Jet Chart (Refer to last page table for part numbers)

		ALTITUDE					
		Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
-40°C (-40°F)	MAG	440	410	380	350	320	300
	PTO						
-30°C (-22°F)	MAG	430	400	370	340	310	290
	PTO						
-20°C (-4°F)	MAG	420	390	360	330	300	280
	PTO						
-10°C (14°F)	MAG	410	380	350	320	290	270
	PTO						
0°C (32°F)	MAG	400	370	340	310	280	260
	PTO						
10°C (50°F)	MAG	390	360	330	300	270	250
	PTO						
20°C (68°F)	MAG	380	350	320	290	260	240
	PTO						
TEMPERATURE	CARBURATOR	MAIN JETS					

SKANDIC WT 600

Drive Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Yellow/red (P/N 414 993 000)					
Ramp	600 (P/N 417 222 444)					
Calibration Screw Position	3	4	5	2	3	4
Pin	Long solid 35,75 mm/ 18,8g (P/N 417 222 594)			Long threaded 35,75 mm/ 12,4 g (P/N 417 222 595) 1 x set screw 20mm (P/N 206 262 099)		
Engagement RPM \pm 100	2800			3000		
Maximum RPM \pm 100	7100					
CLUTCHING	ADJUSTMENT					

Driven Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Orange/ Blue/ Blue (P/N 417 119 100)					
Spring tension Kg \pm 0.7 (lb \pm 1.5)	8 kgf (17.6 lbf)					
Cam angle (degrees)	35° - 30° (M140048)					
CLUTCHING	ADJUSTMENT					

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

Carburetion (Refer to appropriate Specification Booklet for part numbers)

		ALTITUDE						
		Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
Main jet	MAG	330	300	280	250	230	200	1
	PTO							1
Jet needle		6DGL24						2
Needle position		3						—
Slide cut-away		2.5						2
Pilot jet		40						2
Mixture screw		2				1.5		—
Valve seat		1.5						2
Needle jet		P-9 (480)						2
Float level (± 1 mm)		18.1						—
Idle RPM (± 200)		1900						—
Idle throttle valve position (± 0.1 mm)		1.5	1.6	1.7	1.8	1.9	2	—
CALIBRATION		ADJUSTMENT						QTY

Main Jet Chart (Refer to last page table for part numbers)

		ALTITUDE					
		Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
-40°C (-40°F)	MAG	350	320	300	270	250	220
	PTO						
-30°C (-22°F)	MAG	340	310	290	260	240	210
	PTO						
-20°C (-4°F)	MAG	330	300	280	250	230	200
	PTO						
-10°C (14°F)	MAG	320	290	270	240	220	190
	PTO						
0°C (32°F)	MAG	310	280	260	230	210	180
	PTO						
10°C (50°F)	MAG	300	270	250	220	200	170
	PTO						
20°C (68°F)	MAG	290	260	240	210	190	160
	PTO						
TEMPERATURE	CARBURATOR	MAIN JETS					

SUMMIT SPORT 146" 600

Drive Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Blue/ Pink (P/N 414 916 300)			Green/ Pink (P/N 414 756 900)		
Ramp	417 (P/N 417 222 552)					
Calibration Screw Position	3	4	2	3	4	5
Pin	Short solid 32 mm/ 16,75g (P/N 417 004 308)		Short threaded 32 mm/ 10,88 g (P/N 417 222 477) 1 x set screw 20 mm (P/N 206 262 099)		Short threaded 32 mm/ 10,88 g (P/N 417 222 477)	
Engagement RPM \pm 100	3400			4100		
Maximum RPM \pm 100	8100					
CLUTCHING	ADJUSTMENT					

Driven Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Black (P/N 417 126 687)					
Spring tension Kg \pm 0.7 (lb \pm 1.5)	0.0					
Cam angle (degrees)	43° - 47° (P/N 417 127 133)					
CLUTCHING	ADJUSTMENT					

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

Carburetion (Refer to appropriate Specification Booklet for part numbers)

		ALTITUDE						
		Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
Main jet	MAG	420	390	360	330	300	280	1
	PTO							1
Jet needle		9CEY2-58						2
Needle position		2						—
Slide cut-away		2.0						2
Pilot jet		17.5						2
Mixture screw		1.5			2			—
Valve seat		1.5						2
Needle jet		P-0M						2
Float level (± 1 mm)		N/A						—
Idle RPM (± 200)		1600						—
Idle throttle valve position (± 0.1 mm)		1.5	1.6	1.7	1.8	1.9		—
CALIBRATION		ADJUSTMENT						QTY

Main Jet Chart (Refer to last page table for part numbers)

		ALTITUDE					
		Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
-40°C (-40°F)	MAG	440	410	380	350	320	300
	PTO						
-30°C (-22°F)	MAG	430	400	370	340	310	290
	PTO						
-20°C (-4°F)	MAG	420	390	360	330	300	280
	PTO						
-10°C (14°F)	MAG	410	380	350	320	290	270
	PTO						
0°C (32°F)	MAG	400	370	340	310	280	260
	PTO						
10°C (50°F)	MAG	390	360	330	300	270	250
	PTO						
20°C (68°F)	MAG	380	350	320	290	260	240
	PTO						
TEMPERATURE	CARBURATOR	MAIN JETS					

Vehicle Calibration

ALTITUDE						
Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
Stopper Strap	4		3		2	
REAR SUSPENSION	ADJUSTMENT					

EXPEDITION 600 H.O. SDI EXPEDITION SE 600 H.O. SDI

Drive Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Yellow/ Red (P/N 414 993 000)					
Ramp	600 (P/N 417 222 444)					
Calibration Screw Position	2	3	4	2	3	4
Pin	Long solid 35,75 mm/ 18,8 g (P/N 417 222 594)			Short no thread 32 mm/ 9,9 g (P/N 417 004 309) 1 x set screw 16 mm (P/N 206 261 699)		
Engagement RPM \pm 100	3000					
Maximum RPM \pm 100	8100					
CLUTCHING	ADJUSTMENT					

Driven Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	White (P/N 417 127 211)					
Spring tension Kg \pm 0.7 (lb \pm 1.5)	8 kgf (17.6 lbf)					
Cam angle (degrees)	40° (P/N 417 126 956)					
CLUTCHING	ADJUSTMENT					

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

Additional Information

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Rave	Fully screwed in			Bring screw flush with cap		
INFOS	ADJUSTMENT					

GSX LE 600 H.O. E-TEC

Drive Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Yellow/ Green (P/N 414 742 100)			Blue/ Yellow (P/N 414 689 500)		
Ramp	412 (P/N 417 222 515)					
Calibration Screw Position	3	4	5	3	4	5
Pin	Short solid 32 mm/ 16,75g (P/N 417 004 308)			Short no thread 32 mm/ 9,9 g (P/N 417 004 309)		
Engagement RPM \pm 100	3400			3600		
Maximum RPM \pm 100	8100					
CLUTCHING	ADJUSTMENT					

Driven Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Green (P/N 417 127 137)					
Spring tension Kg \pm 0.7 (lb \pm 1.5)	0.0					
Cam angle (degrees)	48° (P/N 417 127 083)			42° - 40° (P/N 417 127 106)		
CLUTCHING	ADJUSTMENT					

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

GTX LE 600 H.O. E-TEC

Drive Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Red/ Green (P/N 414 689 200)			Blue/ Yellow (P/N 414 689 500)		
Ramp	414 (P/N 417 222 546)					
Calibration Screw Position	3	4	5	3	4	5
Pin	Short solid 32 mm/ 16,75g (P/N 417 004 308)			Short no thread 32 mm/ 9,9 g (P/N 417 004 309)		
Engagement RPM \pm 100	3400			3600		
Maximum RPM \pm 100	8100					
CLUTCHING	ADJUSTMENT					

Driven Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Green (P/N 417 127 137)					
Spring tension Kg \pm 0.7 (lb \pm 1.5)	0.0					
Cam angle (degrees)	48° (P/N 417 127 083)			42° - 40° (P/N 417 127 106)		
CLUTCHING	ADJUSTMENT					

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

MXZ ADRENALINE 600 H.O. E-TEC
MXZ X 600 H.O. E-TEC
MXZ X-RS 600 H.O. E-TEC
RENEGADE ADRENALINE 600 H.O. E-TEC
RENEGADE BACKCOUNTRY ADRENALINE 600 H.O. E-TEC
RENEGADE X 600 H.O. E-TEC

Drive Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Blue/ Green (P/N 414 817 700)			Purple/ Yellow (P/N 415 015 300)		
Ramp	412 (P/N 417 222 515)					
Calibration Screw Position	3	4	5	2	3	4
Pin	Short solid 32 mm/ 16,75g (P/N 417 004 308)			Short threaded 32 mm/ 10.88 g (P/N 417 222 477)		
Engagement RPM \pm 100	3400			3800		
Maximum RPM \pm 100	8100					
CLUTCHING	ADJUSTMENT					

Driven Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Green (P/N 417 127 137)					
Spring tension Kg \pm 0.7 (lb \pm 1.5)	0.0					
Cam angle (degrees)	48° (P/N 417 127 083)			42° - 40° (P/N 417 127 106)		
CLUTCHING	ADJUSTMENT					

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

SUMMIT EVEREST 146" 600 H.O. E-TEC

SUMMIT X 154" 600 H.O. E-TEC

Drive Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Blue/ Green (P/N 414 817 700)		Purple/ Green (P/N 415 015 400)			
Ramp	412 (P/N 417 222 515)		440 (P/N 417 223 096)			
Calibration Screw Position	3	4	3	4	4	5
Pin	Short solid 32 mm/ 16,75g (P/N 417 004 308)		Short threaded 32 mm/ 10,88 g (P/N 417 222 477) 1 x set screw/ 16 mm (P/N 206 261 699)		Short threaded 32 mm/ 10,88 g (P/N 417 222 477)	
Engagement RPM \pm 100	4000					
Maximum RPM \pm 100	8100					
CLUTCHING	ADJUSTMENT					

Driven Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Black (P/N 417 126 687)					
Spring tension Kg \pm 0.7 (lb \pm 1.5)	0,0					
Cam angle (degrees)	41° - 45° (P/N 417 127 105)					
CLUTCHING	ADJUSTMENT					

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

Vehicle Calibration

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Stopper Strap		4		3		2
REAR SUSPENSION	ADJUSTMENT					

SUMMIT EVEREST 146" 600 H.O. E-TEC (EUROPE) SUMMIT X 154" 600 H.O. E-TEC (EUROPE)

Drive Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Blue/ Green (P/N 414 817 700)		Purple/ Green (P/N 415 015 400)			
Ramp	412 (P/N 417 222 515)		440 (P/N 417 223 096)			
Calibration Screw Position	3	4	3	4	4	5
Pin	Short solid 32 mm/ 16,75g (P/N 417 004 308)		Short threaded 32 mm/ 10,88 g (P/N 417 222 477) 1 x set screw 16 mm (P/N 206 261 699)		Short threaded 32 mm/ 10,88 g (P/N 417 222 477)	
Engagement RPM \pm 100	4000					
Maximum RPM \pm 100	8100					
CLUTCHING	ADJUSTMENT					

Driven Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Black (P/N 417 126 687)					
Spring tension Kg \pm 0.7 (lb \pm 1.5)	0,0					
Cam angle (degrees)	41° - 45° (P/N 417 127 105)					
CLUTCHING	ADJUSTMENT					

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

Vehicle Calibration

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Stopper Strap		4		3		2
REAR SUSPENSION	ADJUSTMENT					

MXZ ADRENALINE 800R POWER TEK

MXZ X 800R POWER TEK

MXZ X-RS 800R POWER TEK

Drive Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Purple/ Blue (P/N 415 034 900)					
Ramp	414 (P/N 417 222 546)					
Calibration Screw Position	3	4	5	3	4	5
Pin	Long solid 35,75 mm/ 18,8g (P/N 417 222 594)			Long threaded 35,75 mm/ 12,4g (P/N 417 222 595) 1 x set screw, 20 mm (P/N 206 262 099)		
Engagement RPM \pm 100	3800					
Maximum RPM \pm 100	8200					
CLUTCHING	ADJUSTMENT					

Driven Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Green (P/N 417 127 137)					
Spring tension Kg \pm 0.7 (lb \pm 1.5)	0.0					
Cam angle (degrees)	47° - 44° (P/N 417 127 109)					
CLUTCHING	ADJUSTMENT					

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

Carburetion (Refer to appropriate Specification Booklet for part numbers)

		ALTITUDE					
		Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Main jet	MAG	480					1
	PTO						1
Jet needle		9EGI04-58					2
Needle position		N/A					—
Slide cut-away		2.0					2
Pilot jet		17,5					2
Mixture screw		1.5					—
Valve seat		1.5					2
Needle jet		P-0M					2
Float level (± 1 mm)		N/A					—
Idle RPM (± 200)		1600					—
Idle throttle valve position (± 0.1 mm)		1.6	1.8		2		—
CALIBRATION		ADJUSTMENT					QTY

Main Jet Chart (Refer to last page table for part numbers)

		ALTITUDE										
		Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft					
-40°C (-40°F)	MAG	520 N										
	PTO											
-30°C (-22°F)	MAG	500										
	PTO											
-20°C (-4°F)	MAG											
	PTO											
-10°C (14°F)	MAG											
	PTO											
0°C (32°F)	MAG						480					
	PTO											
10°C (50°F)	MAG											
	PTO											
20°C (68°F)	MAG											
	PTO											
TEMPERATURE	CARBURATOR						MAIN JETS					

RENEGADE ADRENALINE 800R POWER TEK

RENEGADE X 800R POWER TEK

Drive Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Purple/ Blue (P/N 415 034 900)					
Ramp	414 (P/N 417 222 546)			413 (P/N 417 222 508)		
Calibration Screw Position	3	4	5	3	4	5
Pin	Long solid 35,75 mm/ 18,8g (P/N 417 222 594)			Long threaded 35,75 mm/ 12,4 g(P/N 417 222 595) 1 x set screw/ 12 mm (P/N 206 261 299)		
Engagement RPM \pm 100	3800		3900	4000		4100
Maximum RPM \pm 100	8200					
CLUTCHING	ADJUSTMENT					

Driven Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Green (P/N 417 127 137)					
Spring tension Kg \pm 0.7 (lb \pm 1.5)	0.0					
Cam angle (degrees)	44° - 42° (P/N 417 126 973)					
CLUTCHING	ADJUSTMENT					

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

Carburetion (Refer to appropriate Specification Booklet for part numbers)

		ALTITUDE					
		Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Main jet	MAG	480					1
	PTO						1
Jet needle		9EGI04-58					2
Needle position		N/A					—
Slide cut-away		2.0					2
Pilot jet		17,5					2
Mixture screw		1.5					—
Valve seat		1.5					2
Needle jet		P-0M					2
Float level (± 1 mm)		N/A					—
Idle RPM (± 200)		1600					—
Idle throttle valve position (± 0.1 mm)		1.6	1.8		2		—
CALIBRATION		ADJUSTMENT					QTY

Main Jet Chart (Refer to last page table for part numbers)

		ALTITUDE										
		Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft					
-40°C (-40°F)	MAG	520 N										
	PTO											
-30°C (-22°F)	MAG	500										
	PTO											
-20°C (-4°F)	MAG											
	PTO											
-10°C (14°F)	MAG											
	PTO											
0°C (32°F)	MAG						480					
	PTO											
10°C (50°F)	MAG											
	PTO											
20°C (68°F)	MAG											
	PTO											
TEMPERATURE	CARBURATOR						MAIN JETS					

RENEGADE BACKCOUNTRY ADRENALINE 800R POWER TEK

RENEGADE BACKCOUNTRY X 800R POWER TEK

Drive Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Purple/ Blue (P/N 415 034 900)					
Ramp	413 (P/N 417 222 508)					
Calibration Screw Position	3	4	5	3	4	5
Pin	Long solid 35,75 mm/ 18,8g (P/N 417 222 594)			Long threaded 35,75 mm/ 12,4 g(P/N 417 222 595) 1 set screw 12 mm (P/N 206 261 299)		
Engagement RPM \pm 100	3800		3900	4000		4100
Maximum RPM \pm 100	8200					
CLUTCHING	ADJUSTMENT					

Driven Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Green (P/N 417 127 137)					
Spring tension Kg \pm 0.7 (lb \pm 1.5)	0.0					
Cam angle (degrees)	44° - 42° (P/N 417 126 973)					
CLUTCHING	ADJUSTMENT					

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

Carburetion (Refer to appropriate Specification Booklet for part numbers)

		ALTITUDE					
		Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Main jet	MAG	480					1
	PTO						1
Jet needle		9EGI04-58					2
Needle position		N/A					—
Slide cut-away		2.0					2
Pilot jet		17,5					2
Mixture screw		1.5					—
Valve seat		1.5					2
Needle jet		P-0M					2
Float level (± 1 mm)		N/A					—
Idle RPM (± 200)		1600					—
Idle throttle valve position (± 0.1 mm)		1.6		1.8		2	—
CALIBRATION		ADJUSTMENT					QTY

Main Jet Chart (Refer to last page table for part numbers)

		ALTITUDE										
		Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft					
-40°C (-40°F)	MAG	520 N										
	PTO											
-30°C (-22°F)	MAG	500										
	PTO											
-20°C (-4°F)	MAG											
	PTO											
-10°C (14°F)	MAG											
	PTO											
0°C (32°F)	MAG						480					
	PTO											
10°C (50°F)	MAG											
	PTO											
20°C (68°F)	MAG											
	PTO											
TEMPERATURE	CARBURATOR						MAIN JETS					

SUMMIT EVEREST 146", 154" & 163" 800R POWER TEK
SUMMIT X 146", 154" & 163" 800R POWER TEK
SUMMIT X-RS HILLCLIMB 154" 800R POWER TEK

Drive Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Blue/ Purple (P/N 414 817 800)		Green/ Purple (P/N 414 762 800)			
Ramp	413 (P/N 417 222 508)		441 (P/N 417 223 098)			
Calibration Screw Position	3	4	3	4		5
Pin	Long solid 35,75 mm/ 18,8g (P/N 417 222 594)		Long threaded 35,75 mm/ 12,4 g (P/N 417 222 595) 1 set screw/ 12 mm(P/N 206 261 299)		Short threaded 32 mm/ 10,88 g (P/N 417 222 477)	
Engagement RPM \pm 100	3800					
Maximum RPM \pm 100	8200					
CLUTCHING	ADJUSTMENT					

Driven Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Purple (P/N 414 978 300)					
Spring tension Kg \pm 0.7 (lb \pm 1.5)	0,0					
Cam angle (degrees)	43° - 47° (P/N 417 127 133)					
CLUTCHING	ADJUSTMENT					

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

Carburetion (Refer to appropriate Specification Booklet for part numbers)

		ALTITUDE						
		Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
Main jet	MAG	480						1
	PTO							1
Jet needle		9EGI04-58						2
Needle position		N/A						—
Slide cut-away		2.0						2
Pilot jet		17,5						2
Mixture screw		1.5						—
Valve seat		1.5						2
Needle jet		P-0M						2
Float level (± 1 mm)		N/A						—
Idle RPM (± 200)		1600						—
Idle throttle valve position (± 0.1 mm)		1.6		1.8		2	—	
CALIBRATION		ADJUSTMENT						QTY

Main Jet Chart (Refer to last page table for part numbers)

		ALTITUDE											
		Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft						
-40°C (-40°F)	MAG	520 N											
	PTO												
-30°C (-22°F)	MAG	500											
	PTO												
-20°C (-4°F)	MAG												
	PTO												
-10°C (14°F)	MAG												
	PTO												
0°C (32°F)	MAG							480					
	PTO												
10°C (50°F)	MAG												
	PTO												
20°C (68°F)	MAG												
	PTO												
TEMPERATURE	CARBURATOR							MAIN JETS					

Vehicle Calibration

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Stopper Strap All except X-RS		4		3		2
Stopper Strap X-RS only	4					
REAR SUSPENSION	ADJUSTMENT					

SUMMIT X-RS HILLCLIMB 154" 800R POWER TEK (EUROPE) SUMMIT X 163" 800R POWER TEK (EUROPE)

Drive Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Blue/ Purple (P/N 414 817 800)		Green/ Purple (P/N 414 762 800)			
Ramp	413 (P/N 417 222 508)		441 (P/N 417 223 098)			
Calibration Screw Position	3	4	3	4		5
Pin	Long solid 35,75 mm/ 18,8g (P/N 417 222 594)		Long threaded 35,75 mm/ 12,4 g (P/N 417 222 595) 1 x set screw/ 12 mm (P/N 206 261 299)		Short threaded 32 mm/ 10,88 g (P/N 417 222 477)	
Engagement RPM \pm 100	3800					
Maximum RPM \pm 100	8200					
CLUTCHING	ADJUSTMENT					

Driven Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Purple (P/N 417 978 300)					
Spring tension Kg \pm 0.7 (lb \pm 1.5)	0.0					
Cam angle (degrees)	43° - 47° (P/N 417 127 133)					
CLUTCHING	ADJUSTMENT					

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

Carburetion (Refer to appropriate Specification Booklet for part numbers)

		ALTITUDE					
		Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Main jet	MAG	480					1
	PTO						1
Jet needle		9EGI04-58					2
Needle position		N/A					—
Slide cut-away		2.0					2
Pilot jet		17,5					2
Mixture screw		1.5					—
Valve seat		1.5					2
Needle jet		P-0M					2
Float level (± 1 mm)		N/A					—
Idle RPM (± 200)		1600					—
Idle throttle valve position (± 0.1 mm)		1.6	1.8		2		—
CALIBRATION		ADJUSTMENT					QTY

Main Jet Chart (Refer to last page table for part numbers)

		ALTITUDE										
		Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft					
-40°C (-40°F)	MAG	520 N										
	PTO											
-30°C (-22°F)	MAG	500										
	PTO											
-20°C (-4°F)	MAG											
	PTO											
-10°C (14°F)	MAG											
	PTO											
0°C (32°F)	MAG						480					
	PTO											
10°C (50°F)	MAG											
	PTO											
20°C (68°F)	MAG											
	PTO											
TEMPERATURE	CARBURATOR	MAIN JETS										

Vehicle Calibration

		ALTITUDE					
		Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Stopper Strap All except X-RS		4		3		2	
Stopper Strap X-RS only		4					
REAR SUSPENSION		ADJUSTMENT					

SKANDIC SWT V-800 4-TEC

Drive Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Red/ Red (P/N 414 689 800)					
Ramp	614 (P/N 417 222 883)					
Calibration Screw Position	3	4	6	5		
Pin	Long solid 35,75 mm/ 18,8g (P/N 417 222 594)			Short no thread 32 mm/ 9,9 g (P/N 417 004 309)		
Engagement RPM \pm 100	2500					
Maximum RPM \pm 100	7250					
CLUTCHING	ADJUSTMENT					

Driven Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Orange/ Gold/ Gold (M140069)					
Spring tension Kg \pm 0.7 (lb \pm 1.5)	8.2 kgf (18.1 lbf)					
Cam angle (degrees)	40° - 30° (P/N 619 100 035)					
CLUTCHING	ADJUSTMENT					

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

EXPEDITION 1200 4-TEC EXPEDITION SE 1200 4-TEC

Drive Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Red/ orange(P/N 414 015 200)					
Ramp	617 (P/N 417 223 088)					
Calibration Screw Position	2	3	4	3	4	5
Pin	Long solid 35,75 mm/ 18,8g (P/N 417 222 594)			Long threaded 35,75 mm/ 12,4 g (P/N 417 222 595)		
Engagement RPM \pm 100	2500			2800		
Maximum RPM \pm 100	7800					
CLUTCHING	ADJUSTMENT					

Driven Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Beige (P/N 417 127 151)					
Spring tension Kg \pm 0.7 (lb \pm 1.5)	7.9 kgf (17.4 lbf)					
Cam angle (degrees)	44° - 40° (P/N 417 126 974)					
CLUTCHING	ADJUSTMENT					

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

GSX LE 1200 4-TEC

Drive Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Yellow/ Orange(P/N 414 689 700)			Yellow/ Blue (P/N 414 818 000)		
Ramp	617 (P/N 417 223 088)					
Calibration Screw Position	3	4	5	4	5	6
Pin	Long solid 35,75 mm/ 18,8g (P/N 417 222 594)			Short solid 32 mm/ 16,75g (P/N 417 004 308)		
Engagement RPM \pm 100	2500			2800		
Maximum RPM \pm 100	7800					
CLUTCHING	ADJUSTMENT					

Driven Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Pink (P/N 417 127 152)			Beige (P/N 417 127 151)		
Spring tension Kg \pm 0.7 (lb \pm 1.5)	7.9 kgf (17.4 lbf)					
Cam angle (degrees)	47° - 40° (P/N 417 127 108)			44° (P/N 417 127 011)		
CLUTCHING	ADJUSTMENT					

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

GSX SE 1200 4-TEC GTX LE 1200 4-TEC GTX SE 1200 4-TEC

Drive Pulley

		ALTITUDE					
		Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Yellow/ Orange(P/N 414 689 700)			Yellow/ Blue (P/N 414 818 000)			
Ramp	617 (P/N 417 223 088)						
Calibration Screw Position	3	4	5	3			
Pin	Long solid 35,75 mm/ 18,8g (P/N 417 222 594)			Short solid 32 mm/ 16,75g (P/N 417 004 308)			
Engagement RPM \pm 100	2500			2800			
Maximum RPM \pm 100	7800						
CLUTCHING	ADJUSTMENT						

Driven Pulley

		ALTITUDE					
		Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Pink (P/N 417 127 152)			Beige (P/N 417 127 151)			
Spring tension Kg \pm 0.7 (lb \pm 1.5)	7.9 kgf (17.4 lbf)						
Cam angle (degrees)	47° - 40° (P/N 417 127 108)			44° (P/N 417 127 011)			
CLUTCHING	ADJUSTMENT						

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

MXZ ADRENALINE 1200 4-TEC

MXZ TNT 1200 4-TEC

MXZ X 1200 4-TEC

Drive Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Yellow/ Orange (P/N 414 689 700)			Yellow/ Blue (P/N 414 818 000)		
Ramp	617 (P/N 417 223 088)					
Calibration Screw Position	3	4	5	3	4	5
Pin	Long solid 35,75 mm/ 18,8g (P/N 417 222 594)			Long threaded 35,75 mm/ 12,4g (P/N 417 222 595)		
Engagement RPM \pm 100	2500			2800		
Maximum RPM \pm 100	7800					
CLUTCHING	ADJUSTMENT					

Driven Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Pink (P/N 417 127 152)			Beige (P/N 417 127 151)		
Spring tension Kg \pm 0.7 (lb \pm 1.5)	7.9 kgf (17.4 lbf)					
Cam angle (degrees)	47° - 40° (P/N 417 127 108)			44° (P/N 417 127 011)		
CLUTCHING	ADJUSTMENT					

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

RENEGADE ADRENALINE 1200 4-TEC

RENEGADE X 1200 4-TEC

Drive Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Yellow/ Orange(P/N 414 689 700)			Yellow/ Blue (P/N 414 818 000)		
Ramp	617 (P/N 417 223 088)					
Calibration Screw Position	3	4	5	3	4	5
Pin	Long solid 35,75 mm/ 18,8g (P/N 417 222 594)			Short threaded 32 mm/ 10,88g (P/N 417 222 477)		
Engagement RPM \pm 100	2500			2800		
Maximum RPM \pm 100	7800					
CLUTCHING	ADJUSTMENT					

Driven Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Pink (P/N 417 127 152)			Beige (P/N 417 127 151)		
Spring tension Kg \pm 0.7 (lb \pm 1.5)	7.9 kgf (17.4 lbf)					
Cam angle (degrees)	47° - 40° (P/N 417 127 108)			44° (P/N 417 127 011)		
CLUTCHING	ADJUSTMENT					

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

MAIN JETS CHART

TYPE	BRP P/N	TYPE	BRP P/N	TYPE	BRP P/N
85	404 133 000	175	404 119 200	300	404 101 200
95	404 132 800	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	480	404 106 800
170	404 123 800	290	404 101 100	500	404 108 200
				520N	404 161 984