



SNOWMOBILES
SERVICE
Bulletin



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YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
2007	All	All	All

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GENERAL INFORMATION

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

Previous Model Year Vehicles

Model Year	Latest Version of Bulletin No.
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 version of <i>HIGH ALTITUDE AND SEA LEVEL DATA</i> booklet, (P/N 484 300 003)

•**NOTE:** Throughout this entire document, shaded area gives 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 COST AND LABOR ARE NOT COVERED BY BRP LIMITED WARRANTY.

BRP Lite



Photo shows the 2 different types of weight used in *BRP LITE* clutches.

Reverse Connector

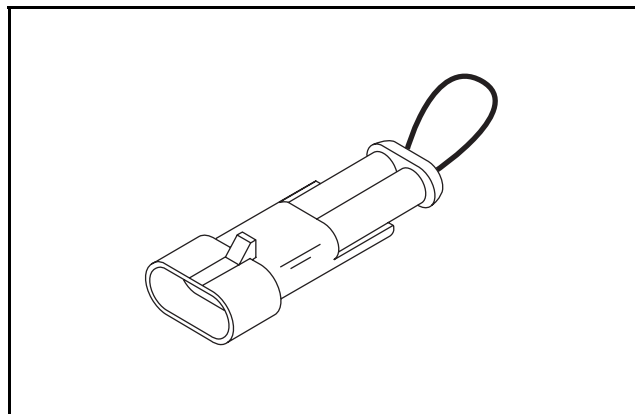
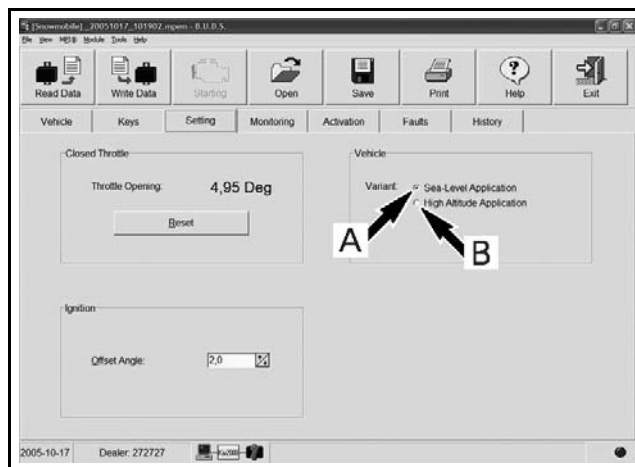


Illustration shows reverse connector (P/N 515 174 700), used at 2400 m (8000 ft) in some FAN models. — *Simply unplug existing sea level cap from the ECM and plug-in the reverse connector.*

600 HO SDI, ECM Recalibration



Enter B.U.D.S., select “Settings” and, when illustrated screen is showed, — select A) *Sea-Level Application* or — select B) *High Altitude Application* in the *Vehicle/Variant* box and then, click on the **Write Data** icon.

IDLE SPEED SCREW ADJUSTMENT

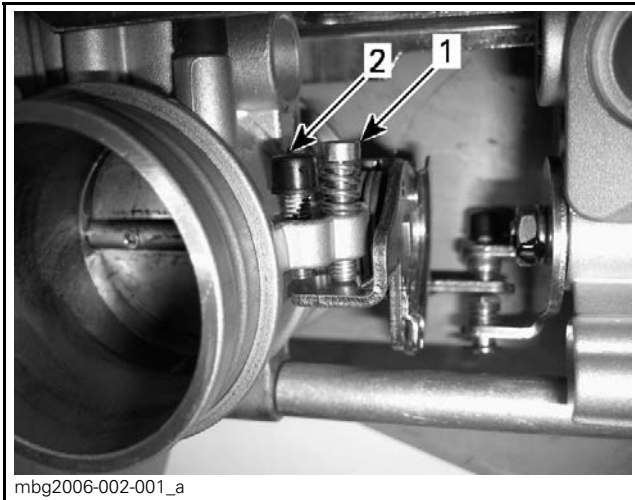
NOTE: This operation performs a reset of the values in the ECM.

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) [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.

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 appropriate value.

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.

MINI Z™

Carburetion

(Refer to appropriate Specification Booklet for part numbers)

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		68 (H99101ZH70680)		58 (H99101ZH70580)				1
Mixture screw		2.0						—
Float level	mm	13.7						—
Idle	RPM ± 200	1400						—

SKANDIC® TUNDRA® 300F / FREESTYLE™ SESSION™ 300F

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)		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		3300	3400	3500	3600		
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		Brown (417 127 061)					
Spring tension	Kg ± 0.7 lb ± 1.5	0.0					
Cam angle (degrees)		44° (417 126 574)					

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 ⇒ 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		2.0		1.0			—	
Valve seat		1.2						—
Needle jet		0-6 (159)						1
Float level	mm	24.9						—
Idle	RPM ± 200	1650						—
Idle throttle valve position (mm)		1.6	1.7	1.8	1.9	2.0	2.1	—

Main Jet Chart

(Refer to last page table for part numbers)

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	—

=> SKANDIC LT 440F

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	Revision
Spring	Silver/Black (M140032)		Purple (M207758A)				
Weight	(417 222 762)						≡
Engagement RPM ± 100	3200						
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	White (504 152 070)					
Spring Kg ± 0.7 tension lb ± 1.5	0.0					
Cam angle (degrees)	40° (anodized) (417 126 591)					

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 ⇒ 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	1.0	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

(Refer to last page table for part numbers)

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

FREESTYLE SESSION 550 F / FREESTYLE PARK™ 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)	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)	2 x (417 114 400)	
Capsule	1 x (417 114 500)					
Engagement RPM ± 100	3300		3400		3600	
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	Brown (417 127 061)					
Spring tension	Kg ± 0.7 lb ± 1.5	0.0				
Cam angle (degrees)	44° (417 126 574)					

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 ⇒ Infos. ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Reverse Connector (refer to photo on page 2)	(515 174 800)			(515 174 700) Connect to ECM		

Carburetion

(Refer to appropriate Specification Booklet for part numbers)

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	120	105	2
Jet needle	6BFY46						2
Needle position	3		2				—
Slide cut-away	2.5						2
Pilot jet	45						2
Mixture screw	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)	1.5	1.6	1.7	1.8	2.0	2.3	—

Main Jet Chart

(Refer to last page table for part numbers)

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	200	190	180	160	130	115	PTO MAG
-30°C -20°F	190	180	170	150	120	105	PTO MAG
-20°C -4°F							PTO MAG
-10°C 14°F	180	170	160	140	110	95	PTO MAG
0°C 32°F							PTO MAG
10°C 50°F	170	160	150	130	100	85	PTO MAG
20°C 70°F							PTO MAG

FREESTYLE BACKCOUNTRY™ 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	Yellow/Yellow (414 748 600)					
Block	(417 118 100)					
Weight (refer to photo on page 2)	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)	1 x (417 120 400)	5 x (417 114 400)	2 x (417 114 400)
Capsule	1 x (417 114 500)					
Engagement RPM ± 100	3300		3400		3600	
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	Brown (417 127 061)					
Spring Kg ± 0.7 tension lb ± 1.5	0.0					
Cam angle (degrees)	44° (417 126 574)					

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 ⇒ Infos. ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Reverse Connector (refer to photo on page 2)	(515 174 800)			(515 174 700) Connect to ECM		

Carburetion

(Refer to appropriate Specification Booklet for part numbers)

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	120	105	2
Jet needle	6BFY46						2
Needle position	3		2				—
Slide cut-away	2.5						2
Pilot jet	45						2
Mixture screw	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)	1.5	1.6	1.7	1.8	2.0	2.3	—

Main Jet Chart

(Refer to last page table for part numbers)

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	200	190	180	160	130	115	PTO MAG
-30°C -20°F	190	180	170	150	120	105	PTO MAG
-20°C -4°F							PTO MAG
-10°C 14°F	180	170	160	140	110	95	PTO MAG
0°C 32°F							PTO MAG
10°C 50°F	170	160	150	130	100	85	PTO MAG
20°C 70°F							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	Yellow/Yellow (414 748 600)					
Block	(417 118 100)					
Weight (refer to photo on page 2)	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)	1 x (417 120 400)	5 x (417 114 400)	3 x (417 114 400)
Capsule	1 x (417 114 500)					
Engagement RPM ± 100	2700	2800	2900	3000		
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	Brown (417 127 061)					
Spring tension	Kg ± 0.7 lb ± 1.5	0.0				
Cam angle (degrees)	44° (417 126 574)					

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 ⇒ Infos. ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Reverse Connector (refer to photo on page 2)	(515 174 800)		(515 174 700) Connect to ECM			

Carburetion

(Refer to appropriate Specification Booklet for part numbers)

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	120	105	2
Jet needle	6BFY46						2
Needle position	3		2				—
Slide cut-away	2.5						2
Pilot jet	45						2
Mixture screw	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)	1.5	1.6	1.7	1.8	2.0	2.3	—

Main Jet Chart

(Refer to last page table for part numbers)

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	200	190	180	160	130	115	PTO MAG
-30°C -20°F	190	180	170	150	120	105	PTO MAG
-20°C -4°F							PTO MAG
-10°C 14°F	180	170	160	140	110	95	PTO MAG
0°C 32°F							PTO MAG
10°C 50°F	170	160	150	130	100	85	PTO MAG
20°C 70°F							PTO MAG

MXZ® 550 F / MXZ X 550F / 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)	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	Brown (417 127 061)					
Spring tension	Kg ± 0.7 lb ± 1.5	0.0				
Cam angle (degrees)	44°-40° (417 127 038)					

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 ⇒ Infos. ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Reverse Connector (refer to photo on page 2)	(515 174 800)			(515 174 700) Connect to ECM		

Carburetion

(Refer to appropriate Specification Booklet for part numbers)

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

(Refer to last page table for part numbers)

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					190	175	PTO MAG
-10°C 14°F	250	240	230	215	185	170	PTO MAG
0°C 32°F				210	180	165	PTO MAG
10°C 50°F	240	230	220	205	175	160	PTO MAG
20°C 70°F				200	170	155	PTO MAG

GTX[†] 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	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	Brown (417 127 061)					
Spring Kg ± 0.7 lb ± 1.5	0.0					
Cam angle (degrees)	44°-40° (417 127 038)					

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 ⇒ Infos. ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Reverse Connector (refer to photo on page 2)	(515 174 800)			(515 174 700) Connect to ECM		

Carburetion

(Refer to appropriate Specification Booklet for part numbers)

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

(Refer to last page table for part numbers)

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					190	175	PTO MAG
-10°C 14°F	250	240	230	215	185	170	PTO MAG
0°C 32°F				210	180	165	PTO MAG
10°C 50°F	240	230	220	205	175	160	PTO MAG
20°C 70°F				200	170	155	PTO MAG

† GTX is a trademark of Castrol Ltd, used under license.

SUMMIT® 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)	2 x (417 114 400)
Capsule	1 x (417 114 500)					
Engagement RPM ± 100	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	Brown (417 127 061)					
Spring Kg ± 0.7 tension lb ± 1.5	0.0					
Cam angle (degrees)	44°-40° (417 127 038)					

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 ⇒ Infos. ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Reverse Connector (refer to photo on page 2)	(515 174 800)			(515 174 700) Connect to ECM		

Carburetion

(Refer to appropriate Specification Booklet for part numbers)

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

(Refer to last page table for part numbers)

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				190	175	PTO MAG	
-10°C 14°F	250	240	230	215	185	170	PTO MAG
0°C 32°F				210	180	165	PTO MAG
10°C 50°F	240	230	220	205	175	160	PTO MAG
20°C 70°F				200	170	155	PTO MAG

SUMMIT 550 F (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/Yellow (415 015 300)					
Block	(417 118 100)					
Weight (refer to photo on page 2)	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)	1 x (417 120 400)	4 x (417 114 400)	3 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	Brown (417 127 061)					
Spring Kg ± 0.7 tension lb ± 1.5	0.0					
Cam angle (degrees)	44° 40° (417 127 038)					

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 ⇒ Infos. ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Reverse Connector (refer to photo on page 2)	(515 174 800)		(515 174 700) Connect to ECM			

Carburetion

(Refer to appropriate Specification Booklet for part numbers)

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

(Refer to last page table for part numbers)

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					190	175	PTO MAG
-10°C 14°F	250	240	230	215	185	170	PTO MAG
0°C 32°F				210	180	165	PTO MAG
10°C 50°F	240	230	220	205	175	160	PTO MAG
20°C 70°F				200	170	155	PTO MAG

SKANDIC WT 550F / SKANDIC SWT 550F / SKANDIC SUV 550F

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	Gold/Blue/Blue (417 119 100)					
Spring Kg ± 0.7 tension lb ± 1.5	8.0 kg (17.6 lb)					
Cam angle (degrees)	40°- 35° (M140049)					

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 ⇒ Infos. ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Reverse Connector (refer to photo on page 2)	(515 174 800)			(515 174 700) Connect to ECM		

Carburetion

(Refer to appropriate Specification Booklet for part numbers)

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

(Refer to last page table for part numbers)

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

MXZ TRAIL 500 SS / MXZ ADRENALINE 500 SS

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	4	5	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 (417 126 688)					
Spring Kg ± 0.7 tension lb ± 1.5	0.0					
Cam angle (degrees)	44° (417 126 574)					

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 ⇒ 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
Pilot screw	1.5		2.0				—
Valve seat	1.5						2
Needle jet	P-0M						2
Float level	mm	N/A					—
Idle	RPM ± 200	1600					—
Idle throttle valve position (mm)	1.5	1.6	1.7	1.8	1.9	—	

Main Jet Chart

(Refer to last page table for part numbers)

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 SPORT 500 SS / GTX SPORT 500 SS

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 (417 126 688)					
Spring Kg ± 0.7 tension lb ± 1.5	0.0					
Cam angle (degrees)	44° (417 126 574)					

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 ⇒ 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
Pilot screw	1.5		2.0				—
Valve seat	1.5						2
Needle jet	P-0M						2
Float level	mm	N/A					—
Idle	RPM ± 200	1600					—
Idle throttle valve position (mm)	1.5	1.6	1.7	1.8	1.9	—	

Main Jet Chart

(Refer to last page table for part numbers)

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

SKANDIC WT 600 / SKANDIC SUV 600

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	Gold/Blue/Blue (417 119 100)					
Spring tension	Kg ± 0.7 lb ± 1.5	8.0 kg (17.6 lb)				
Cam angle (degrees)	35°- 30° (M140048)					

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 ⇒ 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	P-9 (480)						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

(Refer to last page table for part numbers)

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

MXZ ADRENALINE 600 HO

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 (degrees)	47°-44° (anodized) (417 126 385)			44° (anodized) (417 126 445)		

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 ⇒ 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	N/A		2.0				—
Valve seat	1.5						2
Needle jet	P-0M						2
Float level	mm	N/A					—
Idle	RPM ± 200	1600					—
Idle throttle valve position (mm)	1.6	1.7	1.8				—

Main Jet Chart

(Refer to last page table for part numbers)

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 ADRENALINE 600 HO 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	Blue/Yellow (414 689 500)			Violet/Green (415 015 400)		
Ramp	(417 222 596) (410)					
Calibration Screw Position	3	2	3	4		5
Pin	(417 004 308) (Solid)			1 x (417 222 477) (Hollow) 16 mm set screw (206 261 699)	(417 222 477) (Hollow)	
Engagement RPM ± 100	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	Violet (414 978 300)					
Spring Kg ± 0.7 tension lb ± 1.5	0.0					
Cam angle (degrees)	40° (anodized) (417 126 591)					

Continued Use at Sea Level

Altitude => Description ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Revision
Recalibrate ECM	(refer to page 2 for procedure A)			(refer to page 2 for procedure B)			
Sprocket	43T lower sprocket to get a chaincase ratio of 19/43			45T lower sprocket to get a chaincase ratio of 19/45			
RAVE	fully screwed-in			bring screw flush with cap			
Chain	(504 151 830) – 72 links			(504 151 857) – 74 links			⇐

SUMMIT ADRENALINE 600 HO SDI (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/Yellow (414 689 500)		Violet/Green (415 015 400)			
Ramp	(417 222 596) (410)					
Calibration Screw Position	4	5	3	4	5	
Pin	(417 004 308) (Solid)		Hollow-threaded (417 222 477) 16 mm set screw (206 261 699)		Hollow-threaded (417 222 477)	
Engagement RPM ± 100	3800					
Maximum RPM ± 100	8100					

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 (degrees)	44° (anodized) (417 126 445)			40° (anodized) (417 126 591)		

Continued Use at High Altitude

Altitude ⇒ Description ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Recalibrate ECM	(refer to page 2 for procedure A)		refer to page 2 for procedure B)			
RAVE	fully screwd-in			bring screw flush with cap		

MXZ ADRENALINE 600 HO 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	Blue/Yellow (414 689 500)			Violet/Green (415 015 400)		
Ramp	(417 222 596) (410)					
Calibration Screw Position	4	5	6	4	5	6
Pin	(417 004 308) (Solid)			(417 222 477) (Hollow-threaded) 16 mm set screw (206 261 699)		
Engagement RPM ± 100	3800			4000		
Maximum RPM ± 100	8100					

Driven Pulley (HPV)

Altitude ⇒ Clutching ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Black (417 126 687)			Violet (414 978 300)		
Spring Kg ± 0.7 tension lb ± 1.5	0.0					
Cam angle (degrees)	47°-44° (anodized) (417 126 385)					

Additional Information

Altitude ⇒ Infos. ↓	Sea Level	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		
Sprocket	22T (504 091 100)					

EXPEDITION TUV 600 HO 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/Green (414 742 100)			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	Orange/Gold/Gold (M140069)					
Spring tension	Kg ± 0.7 lb ± 1.5	8.2 kg (18.1 lb)				
Cam angle (degrees)	35°-30° (M140048)					

Additional Information

Altitude ⇒ Infos. ↓	Sea Level	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		

=> MXZ X 600 HO SDI / MXZ BLIZZARD™ 600 HO SDI / MXZ X-RS™ 600 HO 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	Blue/Orange (414 639 000)			Violet/Yellow (415 015 300)		
Ramp	(417 222 596) (410)					
Calibration Screw Position	4	5	6	4	5	6
Pin	(417 004 308) (Solid)			(Hollow-threaded) (417 222 477) 20 mm set screw (206 262 099)		
Engagement RPM ± 100	3800			4400		
Maximum RPM ± 100	8100					

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 (degrees)	44° (anodized) (417 126 967)			47°-44° (anodized) (417 126 990)		

Additional Information

Altitude ⇒ Infos. ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Revision
RAVE	fully screwed-in			Bring screw flush with cap			
Sprocket	22T (504 091 100)				21T (504 083 500) to get a ratio of 21/43*		
Chain	(504 151 857) – 74 links						⇐
*NOTE: Ratio of 21/43 could also be used <i>in deep snow</i> at all altitudes.							

=> MXZ RENEGADE® 600 HO SDI / MXZ RENEGADE X® 600 HO 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	Blue/Orange (414 639 000)			Violet/Yellow (415 015 300)		
Ramp	(417 222 596) (410)					
Calibration Screw Position	3	4	5	4	5	6
Pin	(417 004 308) (Solid)			(417 222 477) (Hollow-threaded) 16 mm set screw (206 261 699)		
Engagement RPM ± 100	3800			4400		
Maximum RPM ± 100	8100					

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 (degrees)	44° (anodized) (417 126 967)			40° (417 126 971)		

Continued Use at High Altitude

Altitude ⇒ Description ↓	Sea Level	
		At and above 600 m (2000 ft)
Recalibrate ECM	(refer to page 2 for procedure A)	(refer to page 2 for procedure B)

Additional Information

Altitude ⇒ Infos. ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Revision
RAVE	fully screwed-in			Bring screw flush with cap			
Sprocket	21T (504 096 200)				19T (504 152 030) to get a ratio of 19/43*		
Chain	(504 151 857) – 74 links				(504 151 830) – 72 links		⇐
*NOTE: Ratio of 19/43 could also be used <i>in deep snow</i> at all altitudes.							

GSX SPORT 600 HO SDI / GSX LIMITED 600 HO SDI / GTX SPORT 600 HO SDI / GTX LIMITED 600 HO 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	Blue/Yellow (414 689 500)			Violet/Green (415 015 400)		
Ramp	(417 222 596) (410)					
Calibration Screw Position	4	5	6	4	5	6
Pin	(417 004 308) (Solid)			(417 222 477) (Hollow-threaded) 16 mm set screw (206 261 699)		
Engagement RPM ± 100	3800			4000		
Maximum RPM ± 100	8100					

Driven Pulley (HPV)

Altitude ⇒ Clutching ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Black (417 126 687)			Purple (414 978 300)		
Spring tension	Kg ± 0.7 lb ± 1.5	0.0				
Cam angle (degrees)	47°-44° (anodized) (417 126 385)					

Additional Information

Altitude ⇒ Infos. ↓	Sea Level	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		
Sprocket	22T (504 091 100)					

MXZ ADRENALINE 800 HO PTEK

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	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 Kg ± 0.7 tension lb ± 1.5	0.0					
Cam angle (degrees)	50°-40° (anodized) (417 126 721)					

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 ⇒ 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	9EGI05-58						2
Needle position	N/A						—
Slide cut-away	2.0						2
Pilot jet	17.5						2
Pilot screw	1.5						—
Valve seat	1.5						2
Needle jet	P-0M						2
Float level	mm	N/A					—
Idle	RPM ± 200	1500					—
Idle throttle valve position (mm)	1.7	1.8	1.9				—

Main Jet Chart

(Refer to last page table for part numbers)

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

MXZ X 800 HO PTEK / MXZ BLIZZARD 800 HO PTEK / MXZ X-RS 800 HO PTEK

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	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 Kg ± 0.7 tension lb ± 1.5	0.0					
Cam angle (degrees)	47°-44° (anodized) (417 126 385)					

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 ⇒ 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	9EG105-58						2
Needle position	N/A						—
Slide cut-away	2.0						2
Pilot jet	17.5						2
Pilot screw	1.5						—
Valve seat	1.5						2
Needle jet	P-0M						2
Float level	mm	N/A					—
Idle	RPM ± 200	1500					—
Idle throttle valve position (mm)	1.7	1.8	1.9	—			

Main Jet Chart

(Refer to last page table for part numbers)

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

=> MXZ RENEGADE 800 HO PTEK — 1.25" TRACK / MXZ RENEGADE X 800 HO PTEK — 1.25" TRACK

Drive Pulley

Altitude ⇒ Clutching ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Violet/Green (415 015 400)		Green/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	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 Kg ± 0.7 tension lb ± 1.5	0.0					
Cam angle (degrees)	44° (anodized) (417 126 445)					

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 ⇒ Infos. ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Revision
Sprocket	23T (504 091 000)			19T (504 152 030) or 21T (504 096 200) to get a ratio of 19/43* or 21/43*			
Chain	(504 151 857) – 74 links			(504 151 830) – 72 links 19/43			⇐
				(504 151 857) – 74 links 21/43			⇐

***NOTE:** Ratios of 19/43 or 21/43 could also be used *in deep snow* at all altitudes.

Carburetion

(Refer to appropriate Specification Booklet for part numbers)

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	9EGI05-58						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	mm	N/A					—
Idle	RPM ± 200	1500					—
Idle throttle valve position (mm)	1.7	1.8	1.9				—

Main Jet Chart

(Refer to last page table for part numbers)

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

=> MXZ RENEGADE X 800 HO PTEK — 1.75" TRACK

Drive Pulley

Altitude ⇒ Clutching ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Violet/Green (415 015 400)		Green/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	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 Kg ± 0.7 tension lb ± 1.5	0.0					
Cam angle (degrees)	44° (anodized) (417 126 445)					

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 ⇒ Infos. ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Revision
Sprocket	21T (504 096 200)			19T sprocket (504 152 030) to get a ratio of 19/43*			
				European Model Only 21T (504 096 200)			
Chain	(504 151 857) – 74 links			(504 151 830) – 72 links			⇐
				European Model Only (504 151 857) – 74 links			⇐

***NOTE:** Ratio of 19/43 could also be used *in deep snow* at all altitudes.

Carburetion

(Refer to appropriate Specification Booklet for part numbers)

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	9EG105-58						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	mm	N/A					—
Idle	RPM ± 200	1500					—
Idle throttle valve position (mm)	1.7	1.8	1.9				—

Main Jet Chart

(Refer to last page table for part numbers)

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 LIMITED 800 HO PTEK

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	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 (degrees)	50°-40° (anodized) (417 126 721)					

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 ⇒ 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	9EG105-58						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	mm	N/A					—
Idle	RPM ± 200	1500					—
Idle throttle valve position (mm)	1.7	1.8	1.9				—

Main Jet Chart

(Refer to last page table for part numbers)

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

GTX LIMITED 800 HO PTEK

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 (degrees)	47°-40° (anodized) (417 126 724)					

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 ⇒ 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	9EGI05-58					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	mm	N/A					—
Idle RPM ± 200	1500					—	
Idle throttle valve position (mm)	1.7	1.8	1.9	—			

Main Jet Chart

(Refer to last page table for part numbers)

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	

=> SUMMIT ADRENALINE 800R PTEK 144" & 151" / SUMMIT X 800R PTEK 144" & 151" / SUMMIT X-RS 800R PTEK 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	Revision
Spring	Violet/ Yellow (415 015 300)	Violet/Green (415 015 400)					
Ramp	(417 222 548) (415)						
Calibration Screw Position	3	1	3	4	5		
Pin	(417 222 594) (Solid-Long)	1 x (417 222 595) (Hollow-Threaded) 1 x (206 262 599) set screw	1 x (417 222 595) (Hollow-Threaded) 1 x (206 261 299) set screw		(417 222 595) (Hollow-Long)		≡
Engagement RPM ± 100	3800						
Maximum RPM ± 100 see note 1 below	8300						≡

=> note 1: Peak engine performance is at 8300 RPM.

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° (anodized) (417 126 967)					

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 => Infos ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Revision
Sprocket	23T (504 152 506)	21T (504 152 754)					
Chain	(504 152 431) – 76 links	(504 151 932) – 74 links					≡

Carburetion

(Refer to appropriate Specification Booklet for part numbers)

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	470						2
Jet needle	9EGY2-58						2
Needle position	3						—
Slide cut-away	2.0						2
Pilot jet	17.5						2
Mixture screw	1.5						—
Valve seat	1.5						2
Needle jet	P-OM						2
Float level	mm	N/A					—
Idle	RPM ± 200	1900					—
Idle throttle valve position (mm)	1.7	2.0	2.2	2.4	—		

Main Jet Chart

(Refer to last page table for part numbers)

Altitude => Temperature ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
-40°C -40°F	500						PTO MAG
-30°C -20°F	490						PTO MAG
-20°C -4°F	470						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 X 800R PTEK 159" / SUMMIT X-RS 800R PTEK 159"

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	Revision
Spring	Violet/ Yellow (415 015 300)	Violet/Green (415 015 400)					
Ramp	(417 222 548) (415)						
Calibration Screw Position	3	1	3	4	5		
Pin	(417 222 594) (Solid-Long)	1 x (417 222 595) (Hollow- Threaded) 1 x (206 262 599) set screw	1 x (417 222 595) (Hollow- Threaded) 1 x (206 261 299) set screw	(417 222 595) (Hollow-Threaded)			⇐
Engagement RPM ± 100	3800						
Maximum RPM ± 100 see note 1 below	8300						⇐

=> note 1: Peak engine performance is at 8300 RPM.

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	Revision
Spring	Violet (414 978 300)						
Spring Kg ± 0.7 tension lb ± 1.5	0.0						
Cam angle (degrees)	44°-40° (anodized) (417 126 969) (see note 2 below)						⇐

=> note 2: For aggressive hill climbing, a 44°-36° cam (P/N 417 126 937) can also be used at and above 2400 m (8000 ft).

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 ⇒ Infos ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Revision
Sprocket	21T (504 152 754)	19T (504 152 752)					
Chain	(504 151 932) – 74 links						⇐

Carburetion

(Refer to appropriate Specification Booklet for part numbers)

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	470						2
Jet needle	9EGY2-58						2
Needle position	3						—
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	N/A						—
Idle RPM ± 200	1900						—
Idle throttle valve position (mm)	1.7	2.0	2.2	2.4	—		

Main Jet Chart

(Refer to last page table for part numbers)

Altitude ⇒ Temperature ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
-40°C -40°F	500						PTO MAG
-30°C -20°F	490						PTO MAG
-20°C -4°F	470						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 X-RS 800R PTEK 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	Revision
Spring	Violet/ Yellow (415 015 300)	Violet/Green (415 015 400)					
Ramp	(417 222 548) (415)						
Calibration Screw Position	1	3	4	5			
Pin	(417 222 594) (Solid-Long)	1 x (417 222 595) (Hollow-Threaded) 1 x (206 262 599) set screw	1 x (417 222 595) (Hollow-Threaded) 1 x (206 261 299) set screw	(417 222 595) (Hollow-Long)			⇄
Engagement RPM ± 100	3800						
Maximum RPM ± 100 see note 1 below	8300						⇄

=> note 1: Peak engine performance is at 8300 RPM.

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 Kg ± 0.7 tension lb ± 1.5	0.0					
Cam angle (degrees)	44° (anodized) (417 126 967)					

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 → Infos ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Revision
Sprocket	23T (504 152 506)	21T (504 152 754)					
Chain	(504 152 431) – 76 links	(504 151 932) – 74 links					⇄

Carburetion

(Refer to appropriate Specification Booklet for part numbers)

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	470						2
Jet needle	9EGY2-58						2
Needle position	3						—
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	N/A					—
Idle	RPM ± 200	1900					—
Idle throttle valve position (mm)	2.0	2.2	2.4				—

Main Jet Chart

(Refer to last page table for part numbers)

Altitude → Temperature ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
-40°C -40°F	500						PTO MAG
-30°C -20°F	490						PTO MAG
-20°C -4°F	470						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

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Drive Pulley

Altitude ⇒ Clutching ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Red/Yellow (414 817 500)					
Ramp	(417 222 940) (616)					
Calibration Screw Position	3	4	6	3	4	6
Pin	(417 222 594) (Solid-Long)			(417 004 309) (Hollow)		
Engagement RPM ± 100	2100					
Maximum RPM ± 100	7200					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	Pink (417 126 735)					
Spring tension	Kg ± 0.7 lb ± 1.5	7.3 kg (16.0 lb)				
Cam angle (degrees)	44° (417 126 574)					

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

EXPEDITION TUV 4-TEC V-800 / SKANDIC SWT 4-TEC V-800

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/Red (414 689 800)					
Ramp	(417 222 883) (614)					
Calibration Screw Position	3	4	6	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	Orange/Gold/Gold (M140069)					
Spring tension	Kg ± 0.7 lb ± 1.5	8.2 kg (18.1 lb)				
Cam angle (degrees)	40°-30° (M140057)					

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

=> SUMMIT HIGHMARK^{††} 1000 SDI / SUMMIT HIGHMARK X 1000 SDI

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	Revision
Spring	Pink/White (414 991 400)			Violet/Yellow (415 015 300)			
Ramp	(417 222 799) (433)			3x (417 222 546) (414)			
Calibration Screw Position	6	2	3	4	3	4	
Pin	3 x (417 222 812) (Steel lever) 1 x (417 004 309) (Hollow)			3 x (417 222 595) (Long-Threaded) 3 x (206 262 599) set screw			
Lever	(417 222 812) steel lever			3 x (417 222 671) (Alu. lever)			
Cotter Pin/Pin Screw	3 x (732 958 001)						
Roller Assy	3 x (417 222 762)						⇐
Stopper Washer	6 x (417 004 302)						
Engagement RPM ± 100	3500			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 (degrees)	44°-36° (anodized) (417 126 937)					

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

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	Revision
ECM Cal. File from B.U.D.S.	(420 665 790)		(420 664 619)				
TPS angle	4.6°		5.0°				
Sprocket	23T (504 152 506)		21T (504 152 505)				
Chain	(504 152 744) – 86 links						⇐

†† Highmark is a trademark of a third party.

=> SUMMIT HIGHMARK 1000 SDI (EUROPE) / SUMMIT HIGHMARK X 1000 SDI (EUROPE)

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	Revision
Spring	Green/White (417 222 371)		Violet/Yellow (415 015 300)				
Ramp	(417 222 444) (600)		(417 222 546) (414)				
Calibration Screw Position	3	4	1	2	3	4	
Pin	3 x (417 222 812) (Steel lever) 1 x (417 004 309) (Hollow)		3 x (417 222 595) (Long-Threaded) 1 x (206 262 599) set screw				
Lever	(417 222 812) steel lever		3 x (417 222 671) (Alu. lever)				
Cotter Pin/Pin Screw	3 x (732 958 001)						
Roller Assy	3 x (417 222 762)						≡
Stopper Washer	6 x (417 004 302)						
Engagement RPM ± 100	3400	3500	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 (degrees)	44°-36° (417 126 937)					

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

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	Revision
ECM Cal. File from B.U.D.S.	(420 665 790)		(420 664 618)				
TPS angle	4.6°		5.0°				
Sprocket	23T (504 152 506)		21T (504 152 505)				
Chain	(504 152 744) – 86 links						≡

=> MACH Z® ADRENALINE 1000 SDI / MACH Z X 1000 SDI / MX Z RENEGADE 1000 SDI / MX Z RENEGADE X 1000 SDI

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	Revision
Spring	Pink/Pink (415 074 800)	Pink/White (414 991 400)			Violet/Yellow (415 015 300)		
Ramp	(417 222 815) (434)	(417 222 799) (433)			3 x (417 222 546) (414)		
Calibration Screw Position	6	2	3	4	3	4	
Pin	1 x (417 222 595) (Hollow)				1 x (417 222 595) (Long-Threaded) 1 x (206 262 599) set screw		
Lever	3 x (417 222 812) (Steel lever)				3 x (417 222 671) Alum. Lever		⇐=
Cotter Pin/ Pin Screw	3 x (417 222 813) Pin Screw				3 x (732 958 001) Cotter Pin		
Roller Assy	3 x (417 222 762)						⇐=
Stopper Washer	6 x (417 004 302)						
Engagement RPM ± 100	3000	3500		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 Kg ± 0.7 tension lb ± 1.5	0.0					
Cam angle (degrees)	44°-33° (anodized) (417 126 933)					

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

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 Cal. File from B.U.D.S.	(420 665 790)				(420 664 619)	
TPS angle	4.6°				5.0°	
Upper Sprocket	Mach Z Adrenaline/X 29T (Borg Warner) (504 152 442)					
	MX Z Renegade — 1.25" track 27T (504 148 400)				*21T (504 152 505) or	
	MX Z Renegade — 1.75" track 25T (504 084 300)				*23T (504 152 506)	
Lower Sprocket	Mach Z Adrenaline/X 49T (Borg Warner) (504 152 412)					
	MX Z Renegade 49T (504 152 441)					
Chain	Mach Z Adrenaline/X 82-13 (Borg Warner) (504 152 415)					
	MX Z Renegade 82-13 (Type L/A) (504 152 421)				*80-13 (504 152 522)	

* NOTE: A chain tensioner must be added.

Main Jets Chart

TYPE	BRP P/N	TYPE	BRP P/N	TYPE	BRP P/N
58	H99101ZH70580	165	404 119 300	290	404 101 100
68	H99101ZH70680	170	404 123 800	300	404 101 200
85	404 133 000	175	404 119 200	310	404 107 800
90	404 132 900	180	404 112 200	320	404 101 300
95	404 132 800	185	404 119 500	330	404 101 400
100	404 132 000	190	404 119 000	340	404 104 900
105	404 132 100	195	404 119 400	350	404 106 000
110	404 124 100	200	404 112 300	360	404 106 100
115	404 124 000	205	404 159 200	370	404 106 200
120	404 123 900	210	404 119 100	380	404 106 300
125	404 124 800	215	404 161 979	390	404 106 400
130	404 124 900	220	404 111 200	400	404 100 900
135	404 130 400	230	404 118 900	410	404 101 000
140	404 126 600	240	404 100 200	440	404 108 100
145	404 130 500	250	404 100 300	460	404 106 600
150	404 120 900	260	404 100 600	470	404 106 700
155	404 128 700	270	404 100 400	490	404 106 900
160	404 118 200	280	404 100 500	500	404 108 200