



**SNOWMOBILES**  
**SERVICE**  
Bulletin



Date: **September 21, 2007** Subject: **High Altitude / Sea Level Specs** No. **2008-6**  
**REVISION 1 - NOVEMBER 14, 2008**

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
2008	All	All	All

⇒ Underlined text(s) between arrows is (are) added element(s) to the original publication. ⇐

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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.
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 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

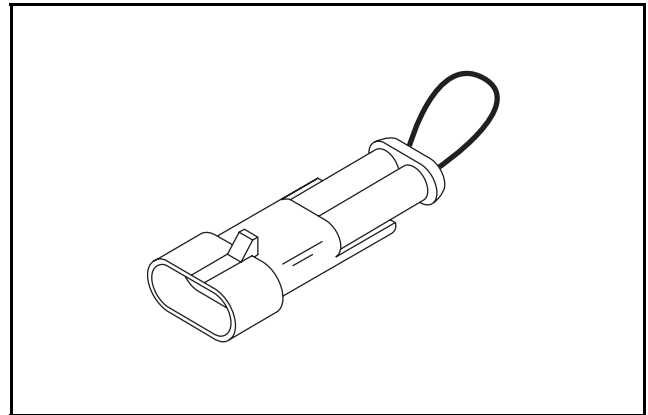
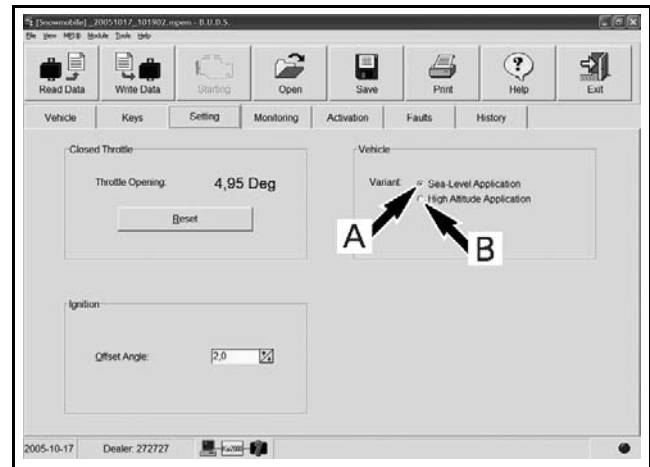


Illustration shows reverse connector (P/N 515 174 700), used at 2400 m (8000 ft) in some FAN models. — *Simply unplug existing sea level cap from the ECM and plug-in the reverse connector.*

### 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

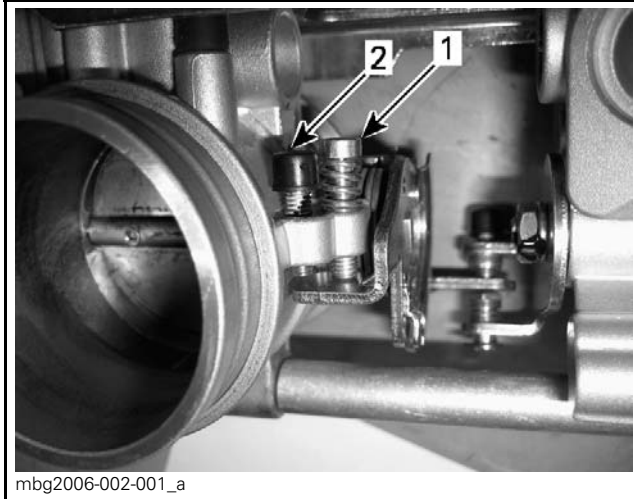
**NOTE:** This operation performs a reset of the values in the ECM.

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	1200 m	1800 m	2400 m	3000 m	Qty
		2000 ft	4000 ft	6000 ft	8000 ft	10000 ft	
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	(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 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	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	—

# 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	(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	(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	(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 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

# TUNDRA LT.

## Drive Pulley

Altitude ⇒ Clutching ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Yellow/Yellow (414 748 600)					
Block	(417 118 100)					
Weight (refer to photo on page 2)	5 (417 114 400) 1 x (417 120 400)	4 x (417 114 400) 1 x (417 120 400)	3 x (417 114 400) 1 x (417 120 400)	1 x (417 114 400) 1 x (417 120 400)	1 x (417 120 400)	3 x (417 114 400)
Capsule	(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<sup>®</sup> 550 F / MXZ X 550 F / GSX<sup>®</sup> 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	(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° (417 126 830)					

**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<sup>†</sup> 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	(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 tension	Kg ± 0.7 lb ± 1.5 0.0					
Cam angle (degrees)	44°-40° (417 126 830)					

**CAUTION:** These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow 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	(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 tension	Kg ± 0.7 lb ± 1.5 0.0					
Cam angle (degrees)	44°-40° (417 126 830)					

**CAUTION:** These adjustments are guidelines only. Specific adjustments vary with temperature, altitude and snow 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	(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 tension	Kg ± 0.7 lb ± 1.5 0.0					
Cam angle (degrees)	44° 40° (417 126830)					

**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	600 (417 222 444)					
Calibration Screw Position	3	4	5	3	4	
Weight (refer to photo on page 2)	(417 004 308) Solid Short			(417 004 309) Hollow Short		
Engagement RPM ± 100	2900	3000	3200	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	Orange/Blue/Blue (417 119 100)					
Spring tensor	Kg ± 0.7 lb ± 1.5 8.0 kg (17.6 lb)					
Cam angle (degrees)	40°- 30° (6020-3001)					

**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	190	180	170	160	150	140	2
Jet needle	6BFY46						2
Needle position	2			1			—
Slide cut-away	2						2
Pilot jet	40						2
Mixture screw	2.5			2			2
Valve seat	1.2						2
Needle jet	P-8 (159)						2
Float level	mm	23.9					—
Idle	RPM ± 200	1650					—
Idle throttle valve position (mm)	1.5	1.7	1.8	2	2.1	2.2	—

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

# MXZ TRAIL 500 SS / MXZ TNT 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/Purple (414 817 900)			Pink/Purple (414 754 200)		
Ramp	(417 222 515) (412)					
Calibration Screw Position	2	4	5	4	5	
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	Black (417 126 687)					
Spring tension	Kg ± 0.7 lb ± 1.5	0.0				
Cam angle (degrees)	42° (417 127 012)					

**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	390	370	350	320	300	270	2
Jet needle	9CEY0158						2
Needle position	3			4			—
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	420	400	370	350	320	290	PTO MAG
-30°C -20°F	410	380	360	330	310	280	PTO MAG
<b>-20°C -4°F</b>	<b>390</b>	370	350	320	300	270	PTO MAG
-10°C 14°F	380	360	330	310	290	260	PTO MAG
0°C 32°F	360	340	320	300	280	250	PTO MAG
10°C 50°F	350	330	310	290	260	240	PTO MAG
20°C 70°F	340	320	300	280	250	230	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	Blue/Purple (414 817 800)			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 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	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
<b>-20°C -4°F</b>	<b>360</b>	<b>340</b>	<b>320</b>	<b>300</b>	<b>280</b>	<b>250</b>	<b>PTO MAG</b>
-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

## 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) (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
<b>-20°C -4°F</b>	<b>330</b>	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 SDI / MXZ X / GSX LIMITED / GSX LIMITED TOURING

## 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/Purple (414 817 900)			Purple/Green (415 015 400)		
Ramp	(417 222 546) (414)					
Calibration Screw Position	3	4	5	3	4	5
Pin	(417 004 308) (Solid)			(417 222 595) (Hollow-threaded)		
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)					
Spring Kg ± 0.7 tension lb ± 1.5	0.0					
Cam angle (degrees)	42° (417 126 012)					

## 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		

## 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)				

# MXZ RENEGADE® 600 HO SDI / MXZ RENEGADE X 600 HO SDI (1'1/4 1'3/4)

## 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/Purple (414 817 900)			Purple/Yellow (415 015 300)		
Ramp	(417 222 546) (414)			(417 222 596) (410)		
Calibration Screw Position	3	4	5	3	4	5
Pin	(417 004 308) (Solid)			(417 222 477) (Hollow-threaded)		
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)					
Spring Kg ± 0.7 tension lb ± 1.5	0.0					
Cam angle (degrees)	40° (417 126 971)					

## 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		
From Factory						
Sprocket	22T(504 091 100)					1'1/4
	21T(504 096 200)					1'3/4
Chain	(504 152 629) – 104 links 22 - 45					1'1/4
	(504 152 579) – 102 links 21 - 45					1'3/4
High Altitude Permanent Usage						
Chain	(504152 -579) – 102 links 21 - 45					1'1/4
	(504 152 629) – 104 links 21 - 47					1'3/4

## 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)				

# 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)			Purple/Green (415 015 400)		
Ramp	(417 222 596) (410)					
Calibration Screw Position	3	2	3	4		5
Pin	(417 004 308) (Solid)			(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
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)		Purple/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)		Purple (414 978 300)			
Spring Kg ± 0.7 tension 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 screwed-in			bring screw flush with cap		

# 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)			Purple/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) (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 Kg ± 0.7 tension lb ± 1.5	8.2 kg (18.1 lb)					
Cam angle (degrees)	35°-30° (M140056)					

## 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		

# 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)			Purple/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 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)					

# SKANDIC SUV 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) (206 261 699) set screw		
Engagement RPM ± 100	3000			4000		
Maximum RPM ± 100	8000					

## 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	Orange/Gold/Gold (M140056)					
Spring Kg ± 0.7 tension 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 ADRENALINE 800 R PTEK / MXZ X 800 R 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	Purple / blue (415 034 900)					
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) (206 262 099) set screw		
Engagement RPM ± 100	3800					
Maximum RPM ± 100	8150					

## 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	Purple (414 978 300)					
Spring Kg ± 0.7 tension lb ± 1.5	0.0					
Cam angle (degrees)	44°(417 127 011)					

**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	480						2
Jet needle	9EG104-58						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	1600						—
Idle throttle valve position (mm)	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	520 N						PTO MAG
-30°C -20°F	500 N						PTO MAG
-20°C -4°F	480						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 R PTEK / MXZ RENEGADE X 800 RPTEK

## Drive Pulley

Altitude ⇒ Clutching ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Purple/Blue (415 034 900)					
Ramp	(417 222 545) (413)					
Calibration Screw Position	3	4	5	3	4	5
Pin	(417 222 594) (Solid-Long)			(417 222 595) (Long-Threaded) (206 261 299) set screw		
Engagement RPM ± 100	3800		3900	4000		4100
Maximum RPM ± 100	8150					

## 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	Purple (414 978 300)					
Spring tension	Kg ± 0.7 lb ± 1.5	0.0				
Cam angle (degrees)	42° (417 127 012)					

**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	480						2
Jet needle	9EG104-58						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	1600					—
Idle throttle valve position (mm)	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	520 N						PTO MAG
-30°C -20°F	500 N						PTO MAG
-20°C -4°F	480						PTO MAG
-10°C 14°F							PTO MAG
0°C 32°F							PTO MAG
10°C 50°F							PTO MAG
20°C							PTO
70°F							MAG

# GSX LIMITED 800 R 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)			(417 222 595) (Long-Threaded) (206 262 099) set screw		
Engagement RPM ± 100	3800					
Maximum RPM ± 100	8150					

## Driven Pulley

Altitude ⇒ Clutching ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Black (417 126 687)					
Spring tension	Kg ± 0.7 lb ± 1.5	0.0				
Cam angle (degrees)	44° (417 127 011)					

**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	480						2
Jet needle	9EG104-58						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	1600					—
Idle throttle valve position (mm)	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	520 N						PTO MAG
-30°C -20°F	500 N						PTO MAG
-20°C -4°F	480						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 / EVEREST 800 R PTEK 146"

## 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/ Green (415 015 400)	Purple/Purple (414 817 900)				
Ramp	(417 118 413)					
Calibration Screw Position	3	1	2	3	4	5
Pin	(417 222 594) (Solid-Long)	(417 222 595) (Hollow-Threaded) (206 261299) set screw			(417 222 595) (Hollow-Long)	
Engagement RPM ± 100	3800					
Maximum RPM ± 100 see note 1 below	8150					

## 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)	42° (417 127 012)					

**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
Sprocket	25T (504 084 300)	23T (504 091 000)				146"

## 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	480						2
Jet needle	9EG104 58						2
Needle position	1						—
Slide cut-away	2.0						2
Pilot jet	17.5						2
Mixture screw	1.5						—
Valve seat	1.5						2
Needle jet	P-0M						2
Float level	mm	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	520 N						PTO MAG
-30°C -20°F	500 N						PTO MAG
-20°C -4°F	480						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 / EVEREST 800 R PTEK 154" & 163"

## 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)	Purple/Purple (414 817 900)				
Ramp	(417 222 508) (413)					
Calibration Screw Position	3	1	3	4	5	
Pin	(417 222 594) (Solid-Long)	(417 222 477) (Hollow- Threaded) (206 262 599) set screw			(417 222 477) (Hollow Threaded)	
Engagement RPM ± 100	3800					
Maximum RPM ± 100 see note 1 below	8150					

note 1: Peak engine performance is at 8150 - 8250 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)	42° (417 126 012)					

**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	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Sprocket →	23I (504 091 000)	← 21T (504 096 200)			154 / 163
Chain	(504 152 629) – 104 links	(504 152 579) – 102 links			154
Sprocket	49 T (504 152 627)	(504 152 630) – 106 links			163

## Carburetion

Altitude ⇒ Calibration ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	Qty
Main jet	480						2
Jet needle	9EG104 58						2
Needle position	1						—
Slide cut-away	2.0						2
Pilot jet	17.5						2
Mixture screw	1.5						—
Valve seat	1.5						2
Needle jet	P-0M						2
Float level	mm	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	520 N						PTO MAG
-30°C -20°F	500 N						PTO MAG
-20°C -4°F	480						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

# LEGEND TOURING 4-TEC V-800 / EXPEDITION SPORT 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/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.

# SKANDIC TUNDRA LT 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/Yellow (414 817 500)					
Ramp	(417 222 940) (616)					
Calibration Screw Position	3	4	6	3	4	6
Pin	(417 004 308) (Solid-Short)			(417 004 309) (Hollow Short)		
Engagement RPM ± 100	2100					
Maximum RPM ± 100	7200					

## Driven Pulley

Altitude → Clutching ↓	Sea Level	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	White (504 152 070)					
Spring tension	Kg ± 0.7 lb ± 1.5	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° (M140056)					

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

## 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

PART DESCRIPTION	PART NUMBER	WEIGHT (g)	KIT QTY
Pin 35.75 mm	417 222 595	12.4	3
Set screw 6 mm	206 260 699	0.73	9
Set screw 12 mm	206 261 299	1.68	3
Set screw 16 mm-	206 261 699	2.35	3
Set screw 20 mm	206 262 099	3.02	3
Set screw 25 mm	206 262 599	3.81	3