



SNOWMOBILES
SERVICE
Bulletin



June 6, 2013

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

No. **2014-4**

REVISION ► 1
August 8th, 2013 ◀

► TEXT(S) BETWEEN ARROWS IS (ARE) MODIFIED ELEMENT(S) TO THE PREVIOUS PUBLICATION. ◀

MODIFICATION OVERVIEW

<u>MODEL</u>	<u>MODIFICATION</u>
<u>EXPEDITION SPORT 600 ACE /</u> <u>RENEGADE SPORT 600 ACE (ALL)</u>	<u>Drive pulley and driven pulley tables</u> <u>deleted</u>
<u>GRAND TOURING SPORT 600 ACE (EUROPE)</u>	<u>Drive Pulley:</u> <u>Spring 0 - 2000 FT:</u> <u>80-135 (P/N 417 223 747)</u> <u>Spring 2000 - 4000 FT: (P/N 417 223 745)</u>
<u>GSX 900 ACE LE</u>	<u>Spring 4000 - 6000 FT: Yellow/Orange</u> <u>(P/N 417 223 760)</u>
<u>EXPEDITION 900 ACE SPORT / EUROPE</u> <u>GRAND TOURING 900 ACE LE</u> <u>MXZ 900 ACE TNT</u> <u>RENEGADE 900 ACE ADR / EUROPE</u>	<u>Drive Pulley:</u> <u>Spring 4000 - 6000 FT: Yellow/Orange</u> <u>(P/N 417 223 760)</u>
<u>EXPEDITION LE 1200 4-TEC (ALL) /</u> <u>EXPEDITION SE 1200 4-TEC</u>	<u>New table</u>

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
2014	All	All	All

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GENERAL INFORMATION

Previous Model Year Vehicles

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

MODEL YEAR	LATEST REVISION OF BULLETIN NO.
2013	2013-2
2012	2012-4
2011	2011-6
2010	2010-5
2009	2009-5
2008	2008-6

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

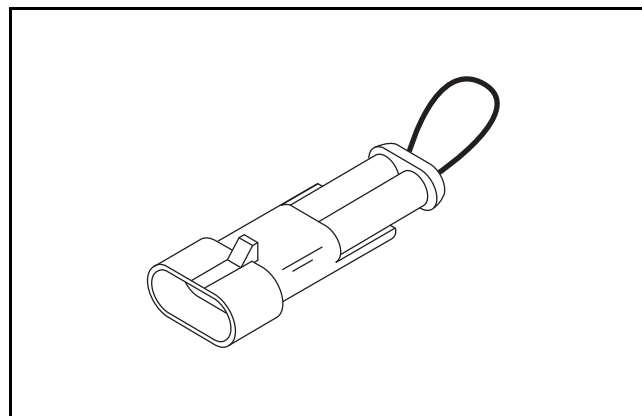
NOTICE The following modifications and adjustments apply for high altitude operation as well as sea level operation.

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

Reverse Connector

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

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



REVERSE CONNECTOR

Table Format

The shady portions of the table indicate factory settings.

ALTITUDE	
Part to be modified	Recommended Adjustment

Sea Level Calibration Kit

When the high altitude calibration must be modified to sea level calibration on Freeride and Summit models (146" and up), the following kits may be used. These kits include all required parts to set-up the vehicle.

MODEL	PART NUMBER
Summit Sport 800 Power TEK	
154"	860 200 394
Freeride and Summit 800R E-TEC	
146"	860 201 118
154"	860 201 119
163"	860 201 120

Kit Description

SEA LEVEL CALIBRATION KIT (P/N 860 200 394)		
DESCRIPTION	PART NUMBER	QTY
Ramp 413	417 222 508	3
Long solid Pin 35,75 mm/18,8 g	417 222 594	3
Cotter pin	250 400 060	3
Spring (Blue/Purple)	414 817 800	1
M14 Spring washer	250 200 006	1

SEA LEVEL CALIBRATION KIT (P/N 860 201 118)		
DESCRIPTION	PART NUMBER	QTY
Ramp 413	417 222 508	3
Long solid pin 35,75 mm/18,8 g	417 222 594	3
Cotter pin	250 400 060	3
Spring (Yellow/green)	414 742 100	1
M14 spring washer	250 200 006	1

SEA LEVEL CALIBRATION KIT (P/N 860 201 119)		
DESCRIPTION	PART NUMBER	QTY
Ramp 413	417 222 508	3
Long solid pin 35,75 mm/18,8 g	417 222 594	3
Cotter pin	250 400 060	3
Spring (Yellow/green)	414 742 100	1
M14 spring washer	250 200 006	1
Upper gear - 21 teeth	504 096 200	1
Chain - 106 links	504 152 630	1

SEA LEVEL CALIBRATION KIT (P/N 860 201 120)		
DESCRIPTION	PART NUMBER	QTY
Ramp 413	417 222 508	3
Long solid pin 35,75 mm/18,8 g	417 222 594	3
Cotter pin	250 400 060	3
Spring (Yellow/green)	414 742 100	1
M14 spring washer	250 200 006	1
Upper gear - 21 teeth	504 096 200	1

GRAND TOURING SPORT 550F (ALL) / RENEGADE™ SPORT 550F (ALL)

Drive Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Red/Yellow (P/N 417 223 315)	Red/Orange (P/N 417 223 316)	Red/White (P/N 417 223 314)	Red/Red (P/N 417 223 186)	Red/Yellow (P/N 417 223 315)	Red/Orange (P/N 417 223 316)
Ramp	730 (P/N 417 223 558)		734 (P/N 417 223 678)			
Ramp quantity	6					
Engagement RPM ± 100	2600					
Maximum RPM ± 100	6800					

Driven Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Brown (P/N 417 127 061)					
Spring tension Kg ± 0.7 (lb ± 1.5)	N/A					
Cam angle (degrees)	47-44° (P/N 417 127 109)					

Carburation

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

		SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)	
Main jet	MAG	190	180	170	160	140	130	1
	PTO	200	190					1
Jet needle		6BFY46						2
MAG Needle position		3		2				—
PTO Needle position		4		2				—
Slide cut-away		2.5						2
Pilot jet		35		45		55		2
MAG mixture screw		1.25						—
PTO mixture screw		1		1.25				—
Valve seat		1.2						2
Needle jet		P-8 (159)				P-6 (159)		2
Float level (± 1 mm)		23.9						—
Idle RPM (± 200)		1650						—
Idle throttle valve position (± 0.1 mm)		1.6		1.8	2	2.2	2.4	—

Main Jet Chart

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)	
-40°C (-40°F)	MAG	200	190	180	170	150	140
	PTO	210	200				
-30°C (-22°F)	MAG	195	185	175	165	145	135
	PTO	205	195				
-20°C (-4°F)	MAG	190	180	170	160	140	130
	PTO	200	190				
-10°C (14°F)	MAG	185	175	165	155	135	125
	PTO	195	185				
0°C (32°F)	MAG	180	170	160	150	130	120
	PTO	190	180				
10°C (50°F)	MAG	175	165	155	145	125	115
	PTO	185	175				
20°C (68°F)	MAG	170	160	150	140	120	110
	PTO	180	170				

Additional Information

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Reverse connector		(P/N 515 174 800)			(P/N 515 174 700) Connect to ECM	

MX Z™ SPORT 550F (ALL)

Drive Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Red/Yellow (P/N 417 223 315)	Red/Orange (P/N 417 223 316)	Red/White (P/N 417 223 314)	Red/Red (P/N 417 223 186)	Red/Yellow (P/N 417 223 315)	Red/Orange (P/N 417 223 316)
Ramp	730 (P/N 417 223 558)		734 (P/N 417 223 678)			
Ramp quantity	6					
Engagement RPM ± 100	2600					
Maximum RPM ± 100	6800					

Driven Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Brown (P/N 417 127 061)					
Spring tension Kg ± 0.7 (lb ± 1.5)	N/A					
Cam angle (degrees)	47°-44° (P/N 417 127 109)					

Carburation

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

		SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)	
Main jet	MAG	190	180	170	160	140	130	1
	PTO	200	190					1
Jet needle		6BFY46						2
MAG Needle position		3		2			—	
PTO Needle position		4		2				
Slide cut-away		2.5						2
Pilot jet		35		45		55		2
MAG mixture screw		1.25						—
PTO mixture screw		1		1.25				
Valve seat		1.2						2
Needle jet		P-8 (159)				P-6 (159)		2
Float level (± 1 mm)		23.9						—
Idle RPM (± 200)		1650						—
Idle throttle valve position (± 0.1 mm)		1.6		1.8	2	2.2	2.4	—

Main Jet Chart

		SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
-40°C (-40°F)	MAG	200	190	180	170	150	140
	PTO	210	200				
-30°C (-22°F)	MAG	195	185	175	165	145	135
	PTO	205	195				
-20°C (-4°F)	MAG	190	180	170	160	140	130
	PTO	200	190				
-10°C (14°F)	MAG	185	175	165	155	135	125
	PTO	195	185				
0°C (32°F)	MAG	180	170	160	150	130	120
	PTO	190	180				
10°C (50°F)	MAG	175	165	155	145	125	115
	PTO	185	175				
20°C (68°F)	MAG	170	160	150	140	120	110
	PTO	180	170				

Additional Information

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Reverse connector		(P/N 515 174 800)				(P/N 515 174 700) Connect to ECM

EXPEDITION® SPORT 550F / SKANDIC TUNDRA SPORT 550F / SKANDIC TUNDRA LT 550F (ALL)

Drive Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Red/Yellow (P/N 417 223 315)	Red/Orange (P/N 417 223 316)	Red/White (P/N 417 223 314)	Red/Red (P/N 417 223 186)	Red/Yellow (P/N 417 223 315)	Red/Orange (P/N 417 223 316)
Ramp	700 (P/N 417 223 457)		734 (P/N 417 223 678)			
Ramp quantity	6					
Engagement RPM ± 100	2600					
Maximum RPM ± 100	6800					

Driven Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Brown (P/N 417 127 061)					
Spring tension Kg ± 0.7 (lb ± 1.5)	N/A					
Cam angle (degrees)	44° (P/N 417 127 011)					

Carburation

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

		SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)	
Main jet	MAG	190	180	170	160	140	130	1
	PTO	200	190					1
Jet needle		6BFY46						2
MAG needle position		3			2			—
PTO needle position		4			2			
Slide cut-away		2.5						2
Pilot jet		35			45		55	2
MAG mixture screw		1.25						—
PTO mixture screw		1			1.25			
Valve seat		1.2						2
Needle jet		P-8 (159)				P-6 (159)		2
Float level (± 1 mm)		23.9						—
Idle RPM (± 200)		1650						—
Idle throttle valve position (± 0.1 mm)		1.6		1.8	2	2.2	2.4	—

Main Jet Chart

		SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
-40°C (-40°F)	MAG	200	190	180	170	150	140
	PTO	210	200				
-30°C (-22°F)	MAG	195	185	175	165	145	135
	PTO	205	195				
-20°C (-4°F)	MAG	190	180	170	160	140	130
	PTO	200	190				
-10°C (14°F)	MAG	185	175	165	155	135	125
	PTO	195	185				
0°C (32°F)	MAG	180	170	160	150	130	120
	PTO	190	180				
10°C (50°F)	MAG	175	165	155	145	125	115
	PTO	185	175				
20°C (68°F)	MAG	170	160	150	140	120	110
	PTO	180	170				

Additional Information

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Reverse connector		(P/N 515 174 800)			(P/N 515 174 700) Connect to ECM	

SKANDIC WT 550F (ALL)

Drive Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Red/Yellow (P/N 417 223 315)	Red/Orange (P/N 417 223 316)	Red/White (P/N 417 223 314)	Red/Red (P/N 417 223 186)	Red/Yellow (P/N 417 223 315)	Red/Orange (P/N 417 223 316)
Ramp	700 (P/N 417 223 457)		734 (P/N 417 223 678)			
Ramp quantity	6					
Engagement RPM \pm 100	2600					
Maximum RPM \pm 100	6800					

Driven Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Pink 2 (P/N 417 127 236)					
Spring tension Kg \pm 0.7 (lb \pm 1.5)	6.4 kgf (14.1 lbf)					
Cam angle (degrees)	47° - 44° (P/N 417 127 148)					

Carburation

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

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

Main Jet Chart

		SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
-40°C (-40°F)	MAG	210	200	190	180	170	160
	PTO						
-30°C (-22°F)	MAG	200	190	180	170	160	150
	PTO						
-20°C (-4°F)	MAG	190	180	170	160	150	140
	PTO						
-10°C (14°F)	MAG	180	170	160	150	140	130
	PTO						
0°C (32°F)	MAG	170	160	150	140	130	120
	PTO						
10°C (50°F)	MAG	160	150	140	130	120	110
	PTO						
20°C (68°F)	MAG	150	140	130	120	110	100
	PTO						

GRAND TOURING SPORT 600

Drive Pulley

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

Driven Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Black (P/N 417 127 039)					
Spring tension Kg \pm 0.7 (lb \pm 1.5)	N/A					
Cam angle (degrees)	42° (P/N 417 127 012)					

Carburation

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

		SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)	
Main jet	MAG	390	370	350	330	300	280	1
	PTO							1
Jet needle		9CEY2-58						2
Needle position		2						—
Slide cut-away		2.0						2
Pilot jet		17.5						2
Mixture screw		1.5			2			—
Valve seat		1.5						2
Needle jet		P-0M						2
Float level (± 1 mm)		N/A						—
Idle RPM (± 200)		1600						—
Idle throttle valve position (± 0.1 mm)		1.5	1.6	1.7	1.8	1.9		—

Main Jet Chart

		SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
-40°C (-40°F)	MAG	410	390	370	350	320	300
	PTO						
-30°C (-22°F)	MAG	400	380	360	340	310	290
	PTO						
-20°C (-4°F)	MAG	390	370	350	330	300	280
	PTO						
-10°C (14°F)	MAG	380	360	340	320	290	270
	PTO						
0°C (32°F)	MAG	370	350	330	310	280	260
	PTO						
10°C (50°F)	MAG	360	340	320	300	270	250
	PTO						
20°C (68°F)	MAG	350	330	310	290	260	240
	PTO						

MX Z SPORT 600

Drive Pulley

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

Driven Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Black (P/N 417 127 039)					
Spring tension Kg \pm 0.7 (lb \pm 1.5)	N/A					
Cam angle (degrees)	42° (P/N 417 127 012)					

Carburation

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

		SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)	
Main jet	MAG	390	370	350	330	300	280	1
	PTO							1
Jet needle		9CEY2-58						2
Needle position		2						—
Slide cut-away		2.0						2
Pilot jet		17.5						2
Mixture screw		1.5			2			—
Valve seat		1.5						2
Needle jet		P-0M						2
Float level (± 1 mm)		N/A						—
Idle RPM (± 200)		1600						—
Idle throttle valve position (± 0.1 mm)		1.5	1.6	1.7	1.8	1.9		—

Main Jet Chart

		SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
-40°C (-40°F)	MAG	410	390	370	350	320	300
	PTO						
-30°C (-22°F)	MAG	400	380	360	340	310	290
	PTO						
-20°C (-4°F)	MAG	390	370	350	330	300	280
	PTO						
-10°C (14°F)	MAG	380	360	340	320	290	270
	PTO						
0°C (32°F)	MAG	370	350	330	310	280	260
	PTO						
10°C (50°F)	MAG	360	340	320	300	270	250
	PTO						
20°C (68°F)	MAG	350	330	310	290	260	240
	PTO						

SUMMIT™ SPORT 146" 600

Drive Pulley

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

Driven Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Black (P/N 417 127 039)					
Spring tension Kg \pm 0.7 (lb \pm 1.5)	N/A					
Cam angle (degrees)	43° - 47° (P/N 417 127 133)					

Carburation

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

		SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)	
Main jet	MAG	390	370	350	330	300	280	1
	PTO							1
Jet needle		9CEY2-58						2
Needle position		2						—
Slide cut-away		2.0						2
Pilot jet		17.5						2
Mixture screw		1.5			2			—
Valve seat		1.5						2
Needle jet		P-0M						2
Float level (± 1 mm)		N/A						—
Idle RPM (± 200)		1600						—
Idle throttle valve position (± 0.1 mm)		1.5	1.6	1.7	1.8	1.9		—

Main Jet Chart

		SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
-40°C (-40°F)	MAG	410	390	370	350	320	300
	PTO						
-30°C (-22°F)	MAG	400	380	360	340	310	290
	PTO						
-20°C (-4°F)	MAG	390	370	350	330	300	280
	PTO						
-10°C (14°F)	MAG	380	360	340	320	290	270
	PTO						
0°C (32°F)	MAG	370	350	330	310	280	260
	PTO						
10°C (50°F)	MAG	360	340	320	300	270	250
	PTO						
20°C (68°F)	MAG	350	330	310	290	260	240
	PTO						

Vehicle Calibration

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Stopper Strap		4		3		2

EXPEDITION LE 600 HO E-TEC® (ALL) / EXPEDITION SE 600 HO E-TEC (ALL)

Drive Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Yellow/Red (P/N 414 993 000)					
Ramp	600 (P/N 417 222 444)					
Calibration Screw Position	2	3	4	2	3	4
Pin	Long solid 35.75 mm/18,8 g (P/N 417 222 594)			Short threaded 32 mm/10,88 g (P/N 417 222 477) 1 X set screw 16 mm (P/N 206 261 699)		
Engagement RPM \pm 100	3000					
Maximum RPM \pm 100	8100					

Driven Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	White 2 (P/N 417 127 243)					
Spring tension Kg \pm 0.7 (lb \pm 1.5)	6.8 kgf (15 lbf)					
Cam angle (degrees)	40° (P/N 417 127 205)					

SKANDIC WT 600 HO E-TEC (ALL) / SKANDIC SWT 600 HO E-TEC

Drive Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Yellow/Red (P/N 414 993 000)					
Ramp	600 (P/N 417 222 444)					
Calibration Screw Position	2	3	4	2	3	4
Pin	Long solid 35.75 mm/18,8 g (P/N 417 222 594)			Short threaded 32 mm/10,88 g (P/N 417 222 477)		
Engagement RPM \pm 100	3000					
Maximum RPM \pm 100	8100					

Driven Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	White 2 (P/N 417 127 243)					
Spring tension Kg \pm 0.7 (lb \pm 1.5)	6.8 kgf (15 lbf)					
Cam angle (degrees)	41° - 45° (P/N 417 127 105)					

GSX™ LE 600 HO E-TEC®

Drive Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Yellow/Green (P/N 414 742 100)			Blue/Yellow (P/N 414 689 500)		
Ramp	412 (P/N 417 222 515)					
Calibration Screw Position	3	4	5	2	3	4
Pin	Short solid 32 mm/16,75 g (P/N 417 004 308)			Short no thread 32 mm/10.88 g (P/N 417 222 477)		
Engagement RPM ± 100	3400			3800		
Maximum RPM ± 100	8100					

Driven Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Green (P/N 417 127 137)					
Spring tension Kg ± 0.7 (lb ± 1.5)	N/A					
Cam angle (degrees)	48° (P/N 417 127 083)			40° (P/N 417 126 956)		

GRAND TOURING LE 600 HO E-TEC (ALL) / GSX™ SE 600 HO E-TEC

Drive Pulley

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

Driven Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Green (P/N 417 127 137)					
Spring tension Kg ± 0.7 (lb ± 1.5)	N/A					
Cam angle (degrees)	48° (P/N 417 127 083)			42° - 40° (P/N 417 127 106)		

**MX Z TNT 600 HO E-TEC (ALL) /
 MX Z™ X™ 600 HO E-TEC (ALL) /
 MX Z X-RS™ 600 HO E-TEC (ALL) /
 RENEGADE ADRENALINE 600 HO E-TEC (ALL) /
 RENEGADE™ BACKCOUNTRY™ 600 HO E-TEC /
 RENEGADE BACKCOUNTRY X 600 HO E-TEC (ALL) /
 RENEGADE X 600 HO E-TEC**

Drive Pulley

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

Driven Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Green (P/N 417 127 137)					
Spring tension Kg ± 0.7 (lb ± 1.5)	N/A					
Cam angle (degrees)	48° (P/N 417 127 083)			40° (P/N 417 126 956)		

SKANDIC TUNDRA Xtreme 600 HO E-TEC (CAN/USA)

Drive Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Red/Orange (P/N 415 015 200)					
Ramp	417 (P/N 417 222 552)					
Calibration Screw Position	3	4	5	3	4	5
Pin	Short solid 32 mm/16,75 g (P/N 417 004 308) 1 X set screw 16 mm (P/N 206 261 699)			Short threaded 32 mm/10,88 g (P/N 417 222 477)		
Engagement RPM \pm 100	2800					
Maximum RPM \pm 100	8100					

Driven Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Black (P/N 417 127 039)					
Spring tension Kg \pm 0.7 (lb \pm 1.5)	N/A					
Cam angle (degrees)	44° - 42° (P/N 417 126 973)			41° - 45° (P/N 417 127 105)		

Vehicle Calibration

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Stopper Strap	3					
Rear suspension extension	Locked			Free		

SKANDIC TUNDRA Xtreme 600 HO E-TEC (EUROPE)

Drive Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Blue/Green (P/N 414 817 700)			Red/Orange (P/N 415 015 200)		
Ramp	412 (P/N 417 222 515)			417 (P/N 417 222 552)		
Calibration Screw Position	3	4	5	3	4	5
Pin	Short solid 32 mm/16,75 g (P/N 417 004 308)			Short threaded 32 mm/10,88 g (P/N 417 222 477)		
Engagement RPM \pm 100	2800					
Maximum RPM \pm 100	8100					

Driven Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Black (P/N 417 127 039)					
Spring tension Kg \pm 0.7 (lb \pm 1.5)	N/A					
Cam angle (degrees)	41° - 45° (P/N 417 127 105)					

Vehicle Calibration

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Stopper Strap	3					
Rear suspension extension	Locked			Free		

SUMMIT SP™ 146" AND 154" 600 HO E-TEC

Drive Pulley

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

Driven Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Black (P/N 417 127 039)					
Spring tension Kg ± 0.7 (lb ± 1.5)	N/A					
Cam angle (degrees)	41° - 45° (P/N 417 127 105)					

Vehicle Calibration

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Stopper Strap		4		3		2

SUMMIT SP 146" 600 HO E-TEC (EUROPE)

Drive Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Blue/Green (P/N 414 817 700)		Purple/Green (P/N 415 015 400)			
Ramp	412 (P/N 417 222 515)		440 (P/N 417 223 096)			
Calibration Screw Position	3	4	2	3	4	5
Pin	Short solid 32 mm/16,75 g (P/N 417 004 308)		Short threaded 32 mm/10,88 g (P/N 417 222 477)			
Engagement RPM \pm 100	4000					
Maximum RPM \pm 100	8100					

Driven Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Black (P/N 417 127 039)					
Spring tension Kg \pm 0.7 (lb \pm 1.5)	N/A					
Cam angle (degrees)	41° - 45° (P/N 417 127 105)					

Vehicle Calibration

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Stopper Strap		4		3		2

SUMMIT SPORT 154" 800R POWER TEK

Drive Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Blue/Purple (P/N 414 817 800)		Green/Purple (P/N 414 762 800)			
Ramp	413 (P/N 417 222 508)		441 (P/N 417 223 098)			
Calibration Screw Position	3	4	1	2	3	4
Pin	Long solid 35,75 mm/18,8 g (P/N 417 222 594)		Long threaded 35,75 mm/12,4 g (P/N 417 222 595) 1 set screw/12 mm (P/N 206 261 299)		Short threaded 32 mm/10,88 g (P/N 417 222 477)	
Engagement RPM \pm 100	3800					
Maximum RPM \pm 100	8150					

Sea Level Calibration Kit

MODEL	PART NUMBER
SUMMIT SPORT 154" 800R Power TEK	860 200 394

Driven Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Purple (P/N 417 127 062)					
Spring tension Kg \pm 0.7 (lb \pm 1.5)	N/A					
Cam angle (degrees)	43° - 47° (P/N 417 127 133)					

Carburation

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

		SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)	
Main jet	MAG	480						1
	PTO	480						1
Jet needle		9EGI04-58						2
Needle position		N/A						—
Slide cut-away		2.0						2
Pilot jet		17,5						2
Mixture screw		1.5						—
Valve seat		1.5						2
Needle jet		P-0M						2
Float level (± 1 mm)		N/A						—
Idle RPM (± 200)		1900						—
Idle throttle valve position (± 0.1 mm)		1.6			1.8		2	—

Main Jet Chart

		SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
-40°C (-40°F)	MAG	520 N					
	PTO	520 N					
-30°C (-22°F)	MAG	500					
	PTO	500					
-20°C (-4°F)	MAG	480					
	PTO						
-10°C (14°F)	MAG						
	PTO						
0°C (32°F)	MAG						
	PTO						
10°C (50°F)	MAG						
	PTO						
20°C (68°F)	MAG						
	PTO						

Vehicle Calibration

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Stopper Strap		4		3		2

SUMMIT SPORT 154" 800R POWER TEK (EUROPE)

Drive Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Blue/Purple (P/N 414 817 800)		Green/Purple (P/N 414 762 800)			
Ramp	413 (P/N 417 222 508)		441 (P/N 417 223 098)			
Calibration Screw Position	3	4	3	4		5
Pin	Long solid 35,75 mm/18,8 g (P/N 417 222 594)		Long threaded 35,75 mm/12,4 g (P/N 417 222 595) 1 set screw/12 mm (P/N 206 261 299)		Short threaded 32 mm/10,88 g (P/N 417 222 477)	
Engagement RPM \pm 100	3800					
Maximum RPM \pm 100	8150					

Driven Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Purple (P/N 417 127 062)					
Spring tension Kg \pm 0.7 (lb \pm 1.5)	N/A					
Cam angle (degrees)	43° - 47° (P/N 417 127 133)					

Carburation

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

		SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)	
Main jet	MAG	480						1
	PTO	480						1
Jet needle		9EGI04-58						2
Needle position		N/A						—
Slide cut-away		2.0						2
Pilot jet		17,5						2
Mixture screw		1.5						—
Valve seat		1.5						2
Needle jet		P-0M						2
Float level (± 1 mm)		N/A						—
Idle RPM (± 200)		1900						—
Idle throttle valve position (± 0.1 mm)		1.6		1.8		2	—	

Main Jet Chart

		SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)						
-40°C (-40°F)	MAG	520 N											
	PTO	520 N											
-30°C (-22°F)	MAG	500											
	PTO	500											
-20°C (-4°F)	MAG												
	PTO												
-10°C (14°F)	MAG												
	PTO												
0°C (32°F)	MAG							480					
	PTO							480					
10°C (50°F)	MAG							480					
	PTO							480					
20°C (68°F)	MAG							480					
	PTO							480					

Vehicle Calibration

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Stopper Strap		4		3		2

FREERIDE™ 137" 800R E-TEC (ALL, Track with profile of 44.5 mm (1-3/4 in))

Drive Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Purple/Blue (P/N 415 034 900)		Purple/Pink (P/N 414 949 500)			
Ramp	413 (P/N 417 222 508)		441 (P/N 417 223 098)			
Calibration Screw Position	3	4	3	4	5	6
Pin	Long solid 35.75 mm/18,8 g (P/N 417 222 594)		Long threaded 35,75 mm/12,4 g (P/N 417 222 595) 1 set screw/12 mm (P/N 206 261 299)			
Engagement RPM ± 100	3800		3900	4000		4100
Maximum RPM ± 100	7900					

Driven Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Green (P/N 417 127 137)		Blue (P/N 417 127 118)			
Spring tension Kg ± 0.7 (lb ± 1.5)	N/A					
Cam angle (degrees)	44° - 42° (P/N 417 126 973)		40° (P/N 417 126 956)			

Vehicle Calibration

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Stopper Strap		4		3		2

FREERIDE™ 137" 800R E-TEC (ALL, Track with profile of 57 mm (2-1/4 in))

Drive Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Purple/Blue (P/N 415 034 900)		Purple/Pink (P/N 414 949 500)			
Ramp	413 (P/N 417 222 508)		441 (P/N 417 223 098)			
Calibration Screw Position	3	4	3	4	5	6
Pin	Long solid 35.75 mm/18,8 g (P/N 417 222 594)		Long threaded 35,75 mm/12,4 g (P/N 417 222 595) 1 set screw/12 mm (P/N 206 261 299)			
Engagement RPM \pm 100	3800		3900	4000		4100
Maximum RPM \pm 100	7900					

Driven Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Blue (P/N 417 127 118)					
Spring tension Kg \pm 0.7 (lb \pm 1.5)	N/A					
Cam angle (degrees)	40° (P/N 417 126 956)					

Vehicle Calibration

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Stopper Strap		4		3		2

FREERIDE 146" AND 154" 800R E-TEC (EUROPE) / SUMMIT X 146", 154" AND 163" 800R E-TEC (EUROPE)

Drive Pulley

	SEA LEVEL 0 M (0 FT)	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/Pink (P/N 414 949 500)			
Ramp	413 (P/N 417 222 508)		441 (P/N 417 223 098)			
Calibration Screw Position	2	3	2	3	4	5
Pin	Long solid 35.75 mm/18,8 g (P/N 417 222 594)		Long threaded 35,75 mm/12,4 g (P/N 417 222 595) 1 set screw/16 mm (P/N 206 261 699)		Long threaded 35,75 mm/12,4 g (P/N 417 222 595)	
Engagement RPM \pm 100	3800					
Maximum RPM \pm 100	7900					

Driven Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Blue (P/N 417 127 118)					
Spring tension Kg \pm 0.7 (lb \pm 1.5)	N/A					
Cam angle (degrees)	40° (P/N 417 126 956)					

Vehicle Calibration

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Stopper Strap		4		3		2

Chaincase Gears

146" MODELS						
	Sea level 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Upper gear		21 (P/N 504 096 200)		19 (P/N 504 152 030)		
Lower gear		49 (P/N 504 152 581)		49 (P/N 504 152 581)		
Chain		106 (P/N 504 152 630)		104 (P/N 504 152 629)		

154" MODELS						
	Sea level 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Upper gear		21 (P/N 504 096 200)		19 (P/N 504 152 030)		
Lower gear		49 (P/N 504 152 581)		49 (P/N 504 152 581)		
Chain		106 (P/N 504 152 630)		104 (P/N 504 152 629)		

163" MODELS						
	Sea level 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M FT
Upper gear		19 (P/N 504 152 030)				
Lower gear		51 (P/N 504 152 971)				
Chain		106 (P/N 504 152 630)				

**FREERIDE 146" AND 154" 800R E-TEC /
 (Track with profile of 57 mm (2-1/4 in))
 SUMMIT SP 146", 154" AND 163" 800R E-TEC
 SUMMIT X 146", 154" AND 163" 800R E-TEC**

Drive Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Yellow/green (P/N 414 742 100)		Purple/Pink (P/N 414 949 500)			
Ramp	413 (P/N 417 222 508)		441 (P/N 417 223 098)			
Calibration Screw Position	3	4	3	4	5	6
Pin	Long solid 35.75 mm/18,8 g (P/N 417 222 594)		Long threaded 35,75 mm/12,4 g (P/N 417 222 595) 1 set screw/16 mm (P/N 206 261 699)	Long threaded 35,75 mm/12,4 g (P/N 417 222 595)		
Engagement RPM ± 100	3800					
Maximum RPM ± 100	7900					

Driven Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Blue (P/N 417 127 118)					
Spring tension Kg ± 0.7 (lb ± 1.5)	N/A					
Cam angle (degrees)	40° (P/N 417 126 956)					

Vehicle Calibration

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Stopper Strap		4		3		2

Chaincase Gears

146" MODELS						
	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Upper gear	21 (P/N 504 096 200)		21 (P/N 504 096 200)			
Lower gear	49 (P/N 504 152 581)		49 (P/N 504 152 581)			
Chain	106 (P/N 504 152 630)		106 (P/N 504 152 630)			

154" MODELS						
	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M FT
Upper gear	21 (P/N 504 096 200)		19 (P/N 504 152 030)			
Lower gear	49 (P/N 504 152 581)		49 (P/N 504 152 581)			
Chain	106 (P/N 504 152 630)		104 (P/N 504 152 629)			

163" MODELS						
	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Upper gear	21 (P/N 504 096 200)		19 (P/N 504 152 030)			
Lower gear	51 (P/N 504 152 971)		51 (P/N 504 152 971)			
Chain	106 (P/N 504 152 630)		106 (P/N 504 152 630)			

Sea Level Calibration Kit

MODEL	PART NUMBER
146"	860 201 118
154"	860 201 119
163"	860 201 120

Summit 800R E-TEC Theoretical Speed (Excluding European Models)

MODEL	UPPER GEAR	LOWER GEAR	CHAIN	THEORETICAL SPEED (KM/H / MPH)
Summit, Freeride 146*	21	49	106	131 km/h (81 MPH)
Summit, Freeride 146***	23	49	106	144 km/h (89 MPH)
Summit, Freeride 154*	19	49	104	119 km/h (74 MPH)
Summit, Freeride 154**	21	49	106	131 km/h (81 MPH)
Summit, Freeride 154***	23	49	106	144 km/h (89 MPH)

MODEL	UPPER GEAR	LOWER GEAR	CHAIN	THEORETICAL SPEED (KM/H / MPH)
Summit 163*	19	51	106	114 km/h (71 MPH)
Summit 163**	21	51	106	126 km/h (78 MPH)
Summit 163***	23	51	108	138 km/h (86 MPH)

Summit 800R E-TEC Sea-Level Gear Ratio Recommendation (Excluding European Models)

TRACK LENGTH	GEAR RATIO	RECOMMENDATION	PRO'S	CON'S
146"	21/49*	Deep snow / Best all around gear ratio	Better belt life / Better deep snow performance	Max Speed 131 km/h
146"	23/49***	Trail / Lake	Higher maximum speed	Performance and Belt life Reduced in deep snow condition
154"	19/49*	For Extreme deep snow condition only	Increase performance and belt life in extreme deep and heavy snow condition	119 km/h max speed. Rev limiter can often turn on.
154"	21/49**	Deep snow / Best all around gear ratio	Better belt life in all around condition	131 km/h max speed
154"	23/49	Trail / Lake	Higher maximum speed	Performance and Belt life Reduced in deep snow condition
163"	19/49*	For Extreme deep snow condition only	Increase performance and belt life in extreme deep and heavy snow condition	114 km/h max speed. Rev limiter can often turn on.
163"	21/49**	Deep snow / Best all around gear ratio	Better belt life in all around condition	131 km/h max speed
163"	23/49	Trail / Lake	Higher maximum speed	Performance and Belt life Reduced in deep snow condition

* Factory Installed

** Included in Sea-Level calibration kit

*** Optional calibration

GSX SE 800R E-TEC

Drive Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Yellow/Green (P/N 414 742 100)		Yellow/Blue (P/N 414 818 000)			
Ramp	414 (P/N 417 222 546)					
Calibration Screw Position	3	4	2	3	4	5
Pin	Long solid 35.75 mm/18,8 g (P/N 417 222 594)		Long threaded 35,75 mm/12,4 g (P/N 417 222 595) 1 set screw/12 mm (P/N 206 261 299)			
Engagement RPM \pm 100	3800					
Maximum RPM \pm 100	7900					

Driven Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Green (P/N 417 127 137)		Purple (P/N 417 127 062)			
Spring tension Kg \pm 0.7 (lb \pm 1.5)	N/A					
Cam angle (degrees)	50°-44° (P/N 417 127 111)					

**MX Z TNT 800R E-TEC /
MX Z X 800R E-TEC /
MX Z X-RS 800R E-TEC (ALL)**

Drive Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Blue/Green (P/N 414 817 700)		Purple/Yellow (P/N 415 015 300)			
Ramp	414 (P/N 417 222 546)					
Calibration Screw Position	3	4	2	3	4	5
Pin	Long solid 35.75 mm/18.8 g (P/N 417 222 594)		Long threaded 35.75 mm/12.4 g (P/N 417 222 595) 1 x set screw 12 mm (P/N 206 261 299)			
Engagement RPM \pm 100	3800					
Maximum RPM \pm 100	7900					

Driven Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Green (P/N 417 127 137)		Purple (P/N 417 127 062)			
Spring tension Kg \pm 0.7 (lb \pm 1.5)	N/A					
Cam angle (degrees)	47° - 44° (P/N 417 127 109)		44° (P/N 417 127 011)			

RENEGADE ADRENALINE 800R E-TEC / RENEGADE X 800R E-TEC

Drive Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Blue/Green (P/N 414 817 700)		Blue/Purple (P/N 414 817 800)			
Ramp	414 (P/N 417 222 546)					
Calibration Screw Position	3	4	2	3	4	5
Pin	Long solid 35.75 mm/18.8 g (P/N 417 222 594)		Long threaded 35.75 mm/12.4 g (P/N 417 222 595) 1 set screw/12 mm (P/N 206 261 299)			
Engagement RPM \pm 100	3800		3900	4000		4100
Maximum RPM \pm 100	7900					

Driven Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Green (P/N 417 127 137)					
Spring tension Kg \pm 0.7 (lb \pm 1.5)	N/A					
Cam angle (degrees)	44° - 42° (P/N 417 126 973)					

RENEGADE BACKCOUNTRY 800R E-TEC / RENEGADE BACKCOUNTRY X 800R E-TEC (ALL)

Drive Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Purple/Blue (P/N 415 034 900)		Purple/Pink (P/N 414 949 500)			
Ramp	413 (P/N 417 222 508)		441 (P/N 417 223 098)			
Calibration Screw Position	3	4	3	4	5	6
Pin	Long solid 35.75 mm/18.8 g (P/N 417 222 594)		Long threaded 35.75 mm/12.4 g (P/N 417 222 595) 1 set screw/12 mm (P/N 206 261 299)			
Engagement RPM \pm 100	3800		3900	4000		4100
Maximum RPM \pm 100	7900					

Driven Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Green (P/N 417 127 137)					
Spring tension Kg \pm 0.7 (lb \pm 1.5)	N/A					
Cam angle (degrees)	44° - 42° (P/N 417 126 973)					

**SKANDIC TUNDRA SPORT 600 ACE /
SKANDIC TUNDRA LT 600 ACE (ALL)
EXPEDITION SPORT 600 ACE
RENEGADE SPORT 600 ACE
RENEGADE SPORT 600 ACE (EUROPE)**

Drive Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Red/White (P/N 417 223 747)	Red/Red (P/N 417 223 745)	Red/Yellow (P/N 417 223 748)	Red/White (P/N 417 223 747)		Red/Red (P/N 417 223 745)
Ramp	716 (P/N 417 223 450)			725 (P/N 417 223 601)		
Ramp quantity	6					
Engagement RPM \pm 100	2200					
Maximum RPM \pm 100	7250					

Driven Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Pink 3 (P/N 417 127 344)					
Spring tension Kg \pm 0.7 (lb \pm 1.5)	6.4 kgf (14.1 lbf)					
Cam angle (degrees)	41°-45° (P/N 417 127 235)					

GRAND TOURING SPORT 600 ACE (ALL) / MX Z SPORT 600 ACE (ALL)

Drive Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Red/Yellow (P/N 417 223 748)	Red/Orange (P/N 417 223 749)	Red/Green (P/N 417 223 750)	Red/White (P/N 417 223 747)		Red/Red (P/N 417 223 745)
Ramp	712 (P/N 417 223 448)			725 (P/N 417 223 601)		
Ramp quantity	6					
Engagement RPM \pm 100	2200					
Maximum RPM \pm 100	7250					

Driven Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Pink 3 (P/N 417 127 344)					
Spring tension Kg \pm 0.7 (lb \pm 1.5)	6.4 kgf (14.1 lbf)					
Cam angle (degrees)	41°-45° (P/N 417 127 235)					

GRAND TOURING SPORT 600 ACE (EUROPE)

Drive Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	80 - 135 Red/White (P/N 417 223 747)	Red/Red (P/N 417 223 745)	Red/Yellow (P/N 417 223 748)	Red/White (P/N 417 223 747)		Red/Red (P/N 417 223 745)
Ramp	715 (P/N 417 223 452)		725 (P/N 417 223 601)			
Ramp quantity	6					
Engagement RPM \pm 100	2200					
Maximum RPM \pm 100	7250					

Driven Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Pink 3 (P/N 417 127 344)					
Spring tension Kg \pm 0.7 (lb \pm 1.5)	6.4 kgf (14.1 lbf)					
Cam angle (degrees)	41°-45° (P/N 417 127 235)					

SKANDIC WT 600 ACE (ALL) / SKANDIC SWT 600 ACE

Drive Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Red/White (P/N 417 223 314)	Red/Red (P/N 417 223 186)	Red/White (P/N 417 223 314)	Red/Red (P/N 417 223 186)	Red/Yellow (P/N 417 223 315)	Red/Orange (P/N 417 223 316)
Ramp	716 (P/N 417 223 450)		725 (P/N 417 223 601)			
Ramp quantity	6					
Engagement RPM \pm 100	2200					
Maximum RPM \pm 100	7250					

Driven Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Pink 3 (P/N 417 127 344)					
Spring tension Kg \pm 0.7 (lb \pm 1.5)	6.4 kgf (14.1 lbf)					
Cam angle (degrees)	37°-45° (P/N 417 127 240)					

GSX LE 1200 4-TEC
GSX SE 1200 4-TEC
GRAND TOURING LE 1200 4-TEC /
GRAND TOURING SE 1200 4-TEC (ALL)
MX Z TNT 1200 4-TEC /
MX Z X 1200 4-TEC
RENEGADE ADRENALINE 1200 4-TEC /
RENEGADE X 1200 4-TEC (ALL)

Drive Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Yellow/Orange (P/N 417 223 746)		Red/White (P/N 417 223 747)	Yellow/Red (P/N 417 223 751)		Yellow/Orange (P/N 417 223 746)
Ramp	735 (P/N 417 223 679)		739 (P/N 417 223 828)			
Engagement RPM \pm 100	2200					
Maximum RPM \pm 100	7900					

Driven Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Pink 4 (P/N 417 127 421)					
Spring tension Kg \pm 0.7 (lb \pm 1.5)	7 kg (15.4 lb)					
Cam angle (degrees)	47° - 40° (P/N 417 127 424)					

**► EXPEDITION LE 1200 4-TEC (ALL) /
EXPEDITION SE 1200 4-TEC ◀**

► Drive Pulley

	<u>SEA LEVEL</u> <u>0 M (0 FT)</u>	<u>600 M</u> <u>(2000 FT)</u>	<u>1200 M</u> <u>(4000 FT)</u>	<u>1800 M</u> <u>(6000 FT)</u>	<u>2400 M</u> <u>(8000 FT)</u>	<u>3000 M</u> <u>(10000 FT)</u>
<u>Spring</u>	<u>Yellow/Red (P/N 417 223 751)</u>		<u>Red/White</u> <u>(P/N 417 223 747)</u>	<u>Yellow/Red (P/N 417 223 751)</u>		<u>Yellow/Orange</u> <u>(P/N 417 223 746)</u>
<u>Ramp</u>	<u>735 (P/N 417 223 679)</u>		<u>739 (P/N 417 223 828)</u>			
<u>Engagement</u> <u>RPM ± 100</u>	<u>2200</u>					
<u>Maximum</u> <u>RPM ± 100</u>	<u>7900</u>					

Driven Pulley

	<u>SEA LEVEL</u> <u>0 M (0 FT)</u>	<u>600 M</u> <u>(2000 FT)</u>	<u>1200 M</u> <u>(4000 FT)</u>	<u>1800 M</u> <u>(6000 FT)</u>	<u>2400 M</u> <u>(8000 FT)</u>	<u>3000 M</u> <u>(10000 FT)</u>
<u>Spring</u>	<u>Pink 4 (P/N 417 127 421)</u>					
<u>Spring tension</u> <u>Kg ± 0.7 (lb ± 1.5)</u>	<u>7 kg (15.4 lb)</u>					
<u>Cam angle (degrees)</u>	<u>44° - 40 (P/N 417 127 424) ◀</u>					

EXPEDITION 900 ACE SPORT / EUROPE
GRAND TOURING 900 ACE LE
MXZ 900 ACE TNT
RENEGADE ADRENALINE 900 ACE / EUROPE

Drive Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring		Yellow/Red (P/N 417 223 751)	▶ Yellow/Orange (P/N 417 223 760) ◀		Yellow/Red (P/N 417 223 751)	Yellow/Orange (P/N 417 223 746)
Ramp		735 (P/N 417 223 679)		742 (P/N 417 223 818)		
Engagement RPM ± 100		2200				
Maximum RPM ± 100		7250				

Driven Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring		Pink 3 (P/N 417 127 344)				
Spring tension Kg ± 0.7 (lb ± 1.5)		7 kg (15.4 lb)				
Cam angle (degrees)		47° - 40° (P/N 417 127 190)				

GSX 900 ACE LE

Drive Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Yellow/Red (P/N 417 223 751)	▶ Yellow/Orange (P/N 417 223 760) ◀		Yellow/Red (P/N 417 223 751)	Yellow/Orange (P/N 417 223 746)	
Ramp	740 (P/N 417 223 906)		742 (P/N 417 223 818)			
Engagement RPM ± 100	2200					
Maximum RPM ± 100	7250					

Driven Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Pink 3 (P/N 417 127 344)					
Spring tension Kg ± 0.7 (lb ± 1.5)	7 kg (15.4 lb)					
Cam angle (degrees)	47° - 40° (P/N 417 127 190)					