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Subject: High Altitude / Sea Level Specifications
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►October 16,
2012◄

►TEXT(S) BETWEEN ARROWS IS (ARE) MODIFIED ELEMENT(S) TO THE PREVIOUS PUBLICATION.◄			
YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
2012	All	All	All
►REVISION HIGHLIGHTS			
All Freeride and Summit CA/US (146" and up)		New sea level calibration kit availability◄	

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**EXPEDITION SPORT 600 ACE™ /
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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.
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".

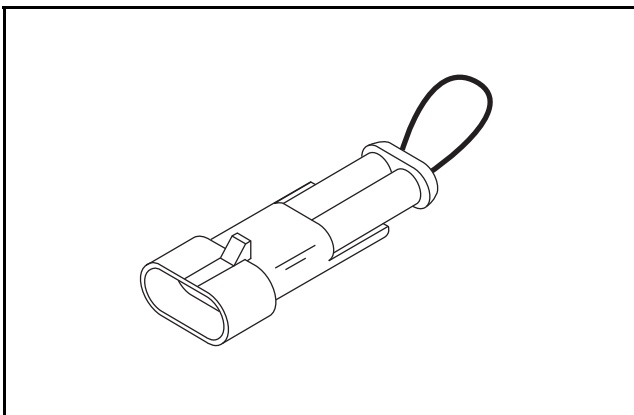
⚠ CAUTION The following modifications and adjustments apply for high altitude operation as well as sea level operation.

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

Reverse Connector

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

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



REVERSE CONNECTOR

►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"	860 201 007
154"	860 201 008
163"	860 201 009

►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 860 201 007)		
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 - 23 teeth	504 091 000	1

<u>SEA LEVEL CALIBRATION KIT (P/N 860 201 008)</u>		
<u>DESCRIPTION</u>	<u>PART NUMBER</u>	<u>QTY</u>
<u>Ramp 413</u>	<u>417 222 508</u>	<u>3</u>
<u>Long solid pin 35.75 mm/18.8 g</u>	<u>417 222 594</u>	<u>3</u>
<u>Cotter pin</u>	<u>250 400 060</u>	<u>3</u>
<u>Spring (Yellow/green)</u>	<u>414 742 100</u>	<u>1</u>
<u>M14 spring washer</u>	<u>250 200 006</u>	<u>1</u>
<u>Upper gear - 23 teeth</u>	<u>504 091 000</u>	<u>1</u>
<u>Chain - 106 links</u>	<u>504 152 630</u>	<u>1</u>

<u>SEA LEVEL CALIBRATION KIT (P/N 860 201 009)</u>		
<u>DESCRIPTION</u>	<u>PART NUMBER</u>	<u>QTY</u>
<u>Ramp 413</u>	<u>417 222 508</u>	<u>3</u>
<u>Long solid pin 35.75 mm/18.8 g</u>	<u>417 222 594</u>	<u>3</u>
<u>Cotter pin</u>	<u>250 400 060</u>	<u>3</u>
<u>Spring (Yellow/green)</u>	<u>414 742 100</u>	<u>1</u>
<u>M14 spring washer</u>	<u>250 200 006</u>	<u>1</u>
<u>Upper gear - 23 teeth</u>	<u>504 091 000</u>	<u>1</u>
<u>Chain - 108 links</u>	<u>504 152 631</u>	<u>1</u>

GRAND TOURING SPORT 550F (CAN/US AND EUROPE) / RENEGADE™ SPORT 550F (CAN/US AND EUROPE)

Drive Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	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					
CLUTCHING	ADJUSTMENT					

Driven Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Brown (P/N 417 127 061)					
Spring tension Kg $\pm$ 0.7 (lb $\pm$ 1.5)	N/A					
Cam angle (degrees)	47-44° (P/N 417 127 109)					
CLUTCHING	ADJUSTMENT					

Carburation (Refer to appropriate Specification Booklet for part numbers)

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

ALTITUDE									
		Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft		
Main jet	MAG	190	180	170	160	140	130	1	
	PTO	200	190					1	
Jet needle		6BFY46							2
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	—	
CALIBRATION		ADJUSTMENT							QTY

Main Jet Chart

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

Additional Information

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

MX Z™ SPORT 550F / MX Z TNT™ 550F (CAN/US AND EUROPE)

Drive Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	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					
CLUTCHING	ADJUSTMENT					

Driven Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Brown (P/N 417 127 061)					
Spring tension Kg $\pm$ 0.7 (lb $\pm$ 1.5)	N/A					
Cam angle (degrees)	47-44° (P/N 417 127 109)					
CLUTCHING	ADJUSTMENT					

Carburation (Refer to appropriate Specification Booklet for part numbers)

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

ALTITUDE								
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft		
Main jet	MAG	190	180	170	160	140	130	1
	PTO	200	190					1
Jet needle		6BFY46						2
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	—
CALIBRATION		ADJUSTMENT						QTY

Main Jet Chart

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

Additional Information

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

EXPEDITION® SPORT 550F / SKANDIC™ TUNDRA™ 550F / SKANDIC TUNDRA SPORT 550F / SKANDIC TUNDRA LT 550F (CAN/US AND EUROPE)

Drive Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	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					
CLUTCHING	ADJUSTMENT					

Driven Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Brown (P/N 417 127 061)					
Spring tension Kg $\pm$ 0.7 (lb $\pm$ 1.5)	N/A					
Cam angle (degrees)	44° (P/N 417 127 011)					
CLUTCHING	ADJUSTMENT					

Carburation (Refer to appropriate Specification Booklet for part numbers)

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

ALTITUDE								
		Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
Main jet	MAG	190	180	170	160	140	130	1
	PTO	200	190					1
Jet needle		6BFY46						2
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	—
CALIBRATION		ADJUSTMENT						QTY

Main Jet Chart

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

Additional Information

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

SKANDIC WT 550F

Drive Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	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					
CLUTCHING	ADJUSTMENT					

Driven Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Pink 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)					
CLUTCHING	ADJUSTMENT					

Carburation (Refer to appropriate Specification Booklet for part numbers)

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

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

Main Jet Chart

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

GRAND TOURING SPORT 600

Drive Pulley

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

Driven Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Black (P/N 417 127 039)					
Spring tension Kg $\pm$ 0.7 (lb $\pm$ 1.5)	N/A					
Cam angle (degrees)	42° (P/N 417 127 012)					
CLUTCHING	ADJUSTMENT					

Carburation (Refer to appropriate Specification Booklet for part numbers)

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

ALTITUDE								
		Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
Main jet	MAG	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		—
CALIBRATION		ADJUSTMENT						QTY

Main Jet Chart

ALTITUDE							
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
-40°C (-40°F)	MAG	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						
TEMPERATURE	CARBURETOR	MAIN JETS					

MX Z SPORT 600 / MX Z TNT 600

Drive Pulley

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

Driven Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Black (P/N 417 127 039)					
Spring tension Kg $\pm$ 0.7 (lb $\pm$ 1.5)	N/A					
Cam angle (degrees)	42° (P/N 417 127 012)					
CLUTCHING	ADJUSTMENT					

Carburation (Refer to appropriate Specification Booklet for part numbers)

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

ALTITUDE								
		Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
Main jet	MAG	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		—
CALIBRATION		ADJUSTMENT						QTY

Main Jet Chart

ALTITUDE							
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
-40°C (-40°F)	MAG	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						
TEMPERATURE	CARBURETOR	MAIN JETS					

SUMMIT™ SPORT 146" 600

Drive Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Blue/Pink (P/N 414 916 300)		Green/Pink (P/N 414 756 900)			
Ramp	417 (P/N 417 222 552)					
Calibration Screw Position	3	4	2	3	4	5
Pin	Short solid 32 mm/16,75 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 ± 100	3400		4100			
Maximum RPM ± 100	8100					
CLUTCHING	ADJUSTMENT					

Driven Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Black (P/N 417 127 039)					
Spring tension Kg ± 0.7 (lb ± 1.5)	N/A					
Cam angle (degrees)	43° - 47° (P/N 417 127 133)					
CLUTCHING	ADJUSTMENT					

Carburation (Refer to appropriate Specification Booklet for part numbers)

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

ALTITUDE								
		Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
Main jet	MAG	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		—
CALIBRATION		ADJUSTMENT						QTY

Main Jet Chart

ALTITUDE							
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
-40°C (-40°F)	MAG	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						
TEMPERATURE	CARBURETOR	MAIN JETS					

Vehicle Calibration

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

EXPEDITION LE 600 H.O. E-TEC® / EXPEDITION SE 600 H.O. E-TEC (CAN/US AND EUROPE) / SKANDIC WT 600 H.O. E-TEC (CAN/US AND EUROPE) / SKANDIC SWT 600 H.O. E-TEC

Drive Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Yellow/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 ± 100	3000					
Maximum RPM ± 100	8100					
CLUTCHING	ADJUSTMENT					

Driven Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	White 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)					
CLUTCHING	ADJUSTMENT					

GSX™ LE 600 H.O. E-TEC®

Drive Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Yellow/Green (P/N 414 742 100)			Blue/Yellow (P/N 414 689 500)		
Ramp	412 (P/N 417 222 515)					
Calibration Screw Position	3	4	5	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					
CLUTCHING	ADJUSTMENT					

Driven Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Purple (P/N 417 127 062)					
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)		
CLUTCHING	ADJUSTMENT					

GRAND TOURING LE 600 H.O. E-TEC (CAN/US AND EUROPE) / GSX™ SE 600 H.O. E-TEC

Drive Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Red/Green (P/N 414 689 200)			Blue/Yellow (P/N 414 689 500)		
Ramp	414 (P/N 417 222 546)					
Calibration Screw Position	3	4	5	3	4	5
Pin	Short solid 32 mm/16,75 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					
CLUTCHING	ADJUSTMENT					

Driven Pulley

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

**MX Z TNT 600 H.O. E-TEC /
MX Z™ X™ 600 H.O. E-TEC /
MX Z X-RS™ 600 H.O. E-TEC (CAN/US AND EUROPE) /
RENEGADE ADRENALINE 600 H.O.
E-TEC (CAN/US AND EUROPE) /
RENEGADE™ BACKCOUNTRY™ 600 H.O. E-TEC /
RENEGADE BACKCOUNTRY X 600
H.O. E-TEC (CAN/US AND EUROPE) /
RENEGADE X 600 H.O. E-TEC**

Drive Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Blue/Green (P/N 414 817 700)			Purple/Yellow (P/N 415 015 300)		
Ramp	412 (P/N 417 222 515)					
Calibration Screw Position	3	4	5	2	3	4
Pin	Short solid 32 mm/16,75 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					
CLUTCHING	ADJUSTMENT					

Driven Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Purple (P/N 417 127 062)					
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)		
CLUTCHING	ADJUSTMENT					

SKANDIC TUNDRA Xtreme 600 H.O. E-TEC (CAN/US AND EUROPE)

Drive Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Red/Orange (P/N 415 015 200)		Blue/Green (P/N 414 817 700)			
Ramp	412 (P/N 417 222 515)		440 (P/N 417 223 096)			
Calibration Screw Position	3	4	2	3	3	4
Pin	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	2800					
Maximum RPM ± 100	8100					
CLUTCHING	ADJUSTMENT					

Driven Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Black (P/N 417 127 039)					
Spring tension Kg $\pm$ 0.7 (lb $\pm$ 1.5)	N/A					
Cam angle (degrees)	42° (P/N 417 127 012)					
CLUTCHING	ADJUSTMENT					

Vehicle Calibration

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Stopper Strap	3					
Rear suspension extension	Locked		Free			
REAR SUSPENSION	ADJUSTMENT					

SUMMIT SP™ 146" & 154" 600 H.O. E-TEC

Drive Pulley

ALTITUDE						
Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
Spring	Blue/Green (P/N 414 817 700)		Purple/Green (P/N 415 015 400)			
Ramp	412 (P/N 417 222 515)		440 (P/N 417 223 096)			
Calibration Screw Position	3	4	3	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					
CLUTCHING	ADJUSTMENT					

Driven Pulley

ALTITUDE						
Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft	
Spring	Black (P/N 417 127 039)					
Spring tension Kg $\pm$ 0.7 (lb $\pm$ 1.5)	N/A					
Cam angle (degrees)	41° - 45° (P/N 417 127 105)					
CLUTCHING	ADJUSTMENT					

Vehicle Calibration

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

SUMMIT SP 146" 600 H.O. E-TEC (EUROPE)

Drive Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Blue/Green (P/N 414 817 700)		Purple/Green (P/N 415 015 400)			
Ramp	412 (P/N 417 222 515)		440 (P/N 417 223 096)			
Calibration Screw Position	3	4	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 ± 100	4000					
Maximum RPM ± 100	8100					
CLUTCHING	ADJUSTMENT					

Driven Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Black (P/N 417 127 039)					
Spring tension Kg $\pm$ 0.7 (lb $\pm$ 1.5)	N/A					
Cam angle (degrees)	41° - 45° (P/N 417 127 105)					
CLUTCHING	ADJUSTMENT					

Vehicle Calibration

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

SUMMIT SPORT 154" 800R POWER TEK

Drive Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Blue/Purple (P/N 414 817 800)		Green/Purple (P/N 414 762 800)			
Ramp	413 (P/N 417 222 508)		441 (P/N 417 223 098)			
Calibration Screw Position	3	4	3	4		5
Pin	Long solid 35,75 mm/18,8 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 ± 100	3800					
Maximum RPM ± 100	8150					
CLUTCHING	ADJUSTMENT					

Driven Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Purple (P/N 417 127 062)					
Spring tension Kg $\pm$ 0.7 (lb $\pm$ 1.5)	N/A					
Cam angle (degrees)	43° - 47° (P/N 417 127 133)					
CLUTCHING	ADJUSTMENT					

Carburation (Refer to appropriate Specification Booklet for part numbers)

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

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

Main Jet Chart

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

Vehicle Calibration

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

FREERIDE™ 137" 800R E-TEC (CAN/US AND EUROPE)

Drive Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Purple/Blue (P/N 415 034 900)		Purple/Yellow (P/N 415 015 300)			
Ramp	413 (P/N 417 222 508)					
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/25 mm (P/N 206 262 599)			
Engagement RPM ± 100	3800		3900	4000		4100
Maximum RPM ± 100	7900					
CLUTCHING	ADJUSTMENT					

Driven Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	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)					
CLUTCHING	ADJUSTMENT					

Vehicle Calibration

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

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

Drive Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	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/25 mm (P/N 206 262 599)			
Engagement RPM ± 100	3800					
Maximum RPM ± 100	7900					
CLUTCHING	ADJUSTMENT					

Driven Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	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)					
CLUTCHING	ADJUSTMENT					

Vehicle Calibration

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

FREERIDE 146" & 154" 800R E-TEC / SUMMIT SP 146", 154" & 163" 800R E-TEC/ SUMMIT X 146", 154" & 163" 800R E-TEC

Drive Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Yellow/green (P/N 414 742 100)		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	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)		Long threaded 35,75 mm/12,4 g (P/N 417 222 595)	
Engagement RPM ± 100	3800					
Maximum RPM ± 100	7900					
CLUTCHING	ADJUSTMENT					

Driven Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	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)					
CLUTCHING	ADJUSTMENT					

Vehicle Calibration

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

►Chaincase Gears◄

146" MODELS						
	<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>Upper gear</u>		<u>23 (P/N 504 091 000)</u>			<u>21 (P/N 504 096 200)</u>	
<u>Lower gear</u>		<u>49 (P/N 504 152 581)</u>			<u>49 (P/N 504 152 581)</u>	
<u>Chain</u>		<u>106 (P/N 504 152 630)</u>			<u>106 (P/N 504 152 630)</u>	

154" MODELS						
	<u>SEA LEVEL</u> 0 M (0 FT)	<u>600 M</u> (2000 FT)	<u>1200 M</u> (4000 FT)	<u>1800 M</u> (6000 FT)	<u>2400 M</u> (8000 FT)	<u>3000 M</u> FT
<u>Upper gear</u>		<u>23 (P/N 504 091 000)</u>			<u>19 (P/N 504 152 030)</u>	
<u>Lower gear</u>		<u>49 (P/N 504 152 581)</u>			<u>49 (P/N 504 152 581)</u>	
<u>Chain</u>		<u>106 (P/N 504 152 630)</u>			<u>104 (P/N 504 152 629)</u>	

163" MODELS						
	<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>Upper gear</u>		<u>23 (P/N 504 091 000)</u>			<u>19 (P/N 504 152 030)</u>	
<u>Lower gear</u>		<u>51 (P/N 504 152 971)</u>			<u>51 (P/N 504 152 971)</u>	
<u>Chain</u>		<u>108 (P/N 504 152 631)</u>			<u>106 (P/N 504 152 630)</u>	

►Sea Level Calibration Kit◄

<u>MODEL</u>	<u>PART NUMBER</u>
<u>146"</u>	<u>860 201 007</u>
<u>154"</u>	<u>860 201 008</u>
<u>163"</u>	<u>860 201 009</u>

GSX SE 800R E-TEC

Drive Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Yellow/Green (P/N 414 742 100)		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 set screw/12 mm (P/N 206 261 299)			

Engagement RPM $\pm$ 100	3800
Maximum RPM $\pm$ 100	8150
CLUTCHING	ADJUSTMENT

Driven Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Green (P/N 417 127 137)	Purple (P/N 417 127 062)				
Spring tension Kg ± 0.7 (lb ± 1.5)	N/A					
Cam angle (degrees)	50°-44 °(P/N 417 127 111)					
CLUTCHING	ADJUSTMENT					

MX Z TNT 800R E-TEC / MX Z X 800R E-TEC / MX Z X-RS 800R E-TEC (CAN/US AND EUROPE)

Drive Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Blue/Green (P/N 414 817 700)		Purple/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 ± 100	3800					
Maximum RPM ± 100	7900					
CLUTCHING	ADJUSTMENT					

Driven Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Green (P/N 417 127 137)		Purple (P/N 417 127 062)			
Spring tension Kg ± 0.7 (lb ± 1.5)	N/A					
Cam angle (degrees)	47° - 44° (P/N 417 127 109)					
CLUTCHING	ADJUSTMENT					

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

Drive Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Purple/Blue (P/N 415 034 900)		Yellow/Yellow (P/N 414 748 600)			
Ramp	413 (P/N 417 222 508)					
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 25 mm (P/N 206 262 599)			
Engagement RPM ± 100	3800		3900	4000		4100
Maximum RPM ± 100	7900					
CLUTCHING	ADJUSTMENT					

Driven Pulley

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

RENEGADE BACKCOUNTRY 800R E-TEC / RENEGADE BACKCOUNTRY X 800R E-TEC (CAN/US AND EUROPE)

Drive Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Purple/Blue (P/N 415 034 900)		Blue/Yellow (P/N 414 689 500)			
Ramp	413 (P/N 417 222 508)					
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 25 mm (P/N 206 262 599)			
Engagement RPM ± 100	3800		3900	4000		4100
Maximum RPM ± 100	7900					
CLUTCHING	ADJUSTMENT					

Driven Pulley

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

EXPEDITION SPORT 600 ACE™ / RENEGADE™ SPORT 600 ACE (CAN/US AND EUROPE) / SKANDIC TUNDRA SPORT 600 ACE / SKANDIC TUNDRA LT 600 ACE (CAN/US AND EUROPE)

Drive Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	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 ± 100	2200					
Maximum RPM ± 100	7250					
CLUTCHING	ADJUSTMENT					

Driven Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	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)	41°-45° (P/N 417 127 235)					
CLUTCHING	ADJUSTMENT					

GRAND TOURING SPORT 600 ACE / MX Z SPORT 600 ACE

Drive Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Red/Yellow (P/N 417 223 315)	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	712 (P/N 417 223 448)		725 (P/N 417 223 601)			
Ramp quantity	6					
Engagement RPM ± 100	2200					
Maximum RPM ± 100	7250					
CLUTCHING	ADJUSTMENT					

Driven Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	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)	41°-45° (P/N 417 127 235)					
CLUTCHING	ADJUSTMENT					

GRAND TOURING SPORT 600 ACE (EUROPE) / MX Z TNT 600 ACE

Drive Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Red/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	715 (P/N 417 223 452)		725 (P/N 417 223 601)			
Ramp quantity	6					
Engagement RPM ± 100	2200					
Maximum RPM ± 100	7250					
CLUTCHING	ADJUSTMENT					

Driven Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	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)	41°-45° (P/N 417 127 235)					
CLUTCHING	ADJUSTMENT					

SKANDIC WT 600 ACE (CAN/US AND EUROPE) / SKANDIC SWT 600 ACE

Drive Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Red/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 ± 100	2200					
Maximum RPM ± 100	7250					
CLUTCHING	ADJUSTMENT					

Driven Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	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)	37°-45° (P/N 417 127 240)					
CLUTCHING	ADJUSTMENT					

EXPEDITION LE 1200 4-TEC® / EXPEDITION SE 1200 4-TEC (CAN/US AND EUROPE)

Drive Pulley

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

Driven Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Beige 2 (P/N 417 127 242)					
Spring tension Kg $\pm$ 0.7 (lb $\pm$ 1.5)	7.5 kgf (16.5 lbf)					
Cam angle (degrees)	44° - 40° (P/N 417 127 206)					
CLUTCHING	ADJUSTMENT					

GSX LE 1200 4-TEC

Drive Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Yellow/Orange (P/N 414 689 700)			Yellow/Blue (P/N 414 818 000)		
Ramp	617 (P/N 417 223 088)					
Calibration Screw Position	3	4	5	2	3	4
Pin	Long solid 35,75 mm/18,8g (P/N 417 222 594)			Short solid 32 mm/16,75g (P/N 417 004 308)		
Engagement RPM ± 100	2500			2800		
Maximum RPM ± 100	7800					
CLUTCHING	ADJUSTMENT					

Driven Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Pink 2 (P/N 417 127 236)			Beige 2 (P/N 417 127 242)		
Spring tension Kg ± 0.7 (lb ± 1.5)	7.5 kgf (16.5 lbf)					
Cam angle (degrees)	47° - 40° (P/N 417 127 190)			44° (P/N 417 127 169)		
CLUTCHING	ADJUSTMENT					

GRAND TOURING LE 1200 4-TEC / GRAND TOURING SE 1200 4-TEC (CAN/US AND EUROPE) / GSX SE 1200 4-TEC

Drive Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Yellow/Orange (P/N 414 689 700)			Yellow/Blue (P/N 414 818 000)		
Ramp	617 (P/N 417 223 088)					
Calibration Screw Position	3	4	5	2	3	4
Pin	Long solid 35,75 mm/18,8 g (P/N 417 222 594)			Short solid 32 mm/16,75 g (P/N 417 004 308)		
Engagement RPM ± 100	2500			2800		
Maximum RPM ± 100	7800					
CLUTCHING	ADJUSTMENT					

Driven Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Pink 2 (P/N 417 127 236)			Beige 2 (P/N 417 127 242)		
Spring tension Kg ± 0.7 (lb ± 1.5)	7.5 kgf (16.5 lbf)					
Cam angle (degrees)	47° - 40° (P/N 417 127 190)			44° (P/N 417 127 169)		
CLUTCHING	ADJUSTMENT					

MX Z TNT 1200 4-TEC / MX Z X 1200 4-TEC (CAN/US AND EUROPE)

Drive Pulley

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

Driven Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring	Pink 2 (P/N 417 127 236)			Beige 2 (P/N 417 127 242)		
Spring tension Kg ± 0.7 (lb ± 1.5)	7.5 kgf (16.5 lbf)					
Cam angle (degrees)	47° - 40° (P/N 417 127 190)			44° (P/N 417 127 169)		
CLUTCHING	ADJUSTMENT					

RENEGADE ADRENALINE 1200 4-TEC / RENEGADE X 1200 4-TEC (CAN/US AND EUROPE)

Drive Pulley

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

Driven Pulley

ALTITUDE						
	Sea level 0 m (ft)	600 m 2000 ft	1200 m 4000 ft	1800 m 6000 ft	2400 m 8000 ft	3000 m 10000 ft
Spring		Pink 2 (P/N 417 127 236)			Beige 2 (P/N 417 127 242)	
Spring tension Kg ± 0.7 (lb ± 1.5)	7.5 kgf (16.5 lbf)					
Cam angle (degrees)	47° - 40° (P/N 417 127 190)			44° (P/N 417 127 169)		
CLUTCHING	ADJUSTMENT					