



SERVICE BULLETIN

SKI-DOO®

June, 2015

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

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YEAR	MODEL
2016	All Ski-Doo

TABLE OF CONTENTS

	Page		Page
GENERAL INFORMATION	4	Driven Pulley	13
Previous Model Year Vehicles	4	Carburation	14
Reverse Connector	4	Main Jet Chart	14
Table Format	4	SUMMIT™ SPORT 146" 600	15
Sea Level Calibration Kit	4	Drive Pulley	15
EXPEDITION® SPORT 550F / TUNDRA™		Driven Pulley	15
SPORT 550F / TUNDRA LT 550F	6	Carburation	16
Drive Pulley	6	Main Jet Chart	16
Driven Pulley	6	Vehicle Calibration	17
Carburation	7	EXPEDITION LE 600 HO E-TEC® /	
Main Jet Chart	7	EXPEDITION SE 600 HO E-TEC	18
Additional Information	8	Drive Pulley	18
SKANDIC WT 550F	9	Driven Pulley	18
Drive Pulley	9	SKANDIC WT 600 HO E-TEC / SKANDIC	
Driven Pulley	9	SWT 600 HO E-TEC	19
Carburation	10	Drive Pulley	19
Main Jet Chart	10	Driven Pulley	19
MX Z™ SPORT 600	11	GRAND TOURING LE 600 HO E-TEC ...	20
Drive Pulley	11	Drive Pulley	20
Driven Pulley	11	Driven Pulley	20
Carburation	12	MX Z™ TNT 600 HO E-TEC / MX Z	
Main Jet Chart	12	BLIZZARD™ 600 HO E-TEC / MX Z X™	
RENEGADE™ SPORT 600	13	600 HO E-TEC / MX Z X-RS™ 600 HO	
Drive Pulley	13	E-TEC / RENEGADE™ ADRENALINE™ 600	
		HO E-TEC / RENEGADE ENDURO 600 HO	

**E-TEC / RENEGADE BACKCOUNTRY™
600 HO E-TEC / RENEGADE X 600 HO
E-TEC..... 21**

Drive Pulley.....	21
Driven Pulley	21

TUNDRA Xtreme 600 HO E-TEC..... 22

Drive Pulley.....	22
Driven Pulley	22
Vehicle Calibration	22

**SUMMIT SP 146" AND 154" 600 HO E-TEC
(CAN/USA) 23**

Drive Pulley.....	23
Driven Pulley	23
Vehicle Calibration	23

**SUMMIT SP 146" AND 154" 600 HO E-TEC
(EUROPE) 24**

Drive Pulley.....	24
Driven Pulley	24
Vehicle Calibration	24

**SUMMIT SPORT 154" 800R POWER
TEK™..... 25**

Drive Pulley.....	25
Driven Pulley	25
Carburation	26
Main Jet Chart	26
Vehicle Calibration	26

**FREERIDE™ 137" 800R E-TEC (EUROPE)
(Track with profile of 57 mm (2-1/4 in)) 27**

Drive Pulley.....	27
Driven Pulley	27
Vehicle Calibration	27

**FREERIDE 146" AND 154" 800R E-TEC
SEA-LEVEL / SUMMIT X 154" 800R E-TEC
SEA-LEVEL (Track with profile of 63.5 mm
(2-1/2 in)) / SUMMIT BURTON 154" 800R
E-TEC SEA-LEVEL (EUROPE) / SUMMIT
SP 146", 154" AND 163" 800R E-TEC
SEA-LEVEL (EUROPE) (Track with profile
of 63.5 mm (2-1/2 in))..... 28**

Drive Pulley.....	28
Driven Pulley	28
Vehicle Calibration	28
Chaincase Gears.....	29

**SUMMIT X 154", 163" AND 174" 800R
E-TEC SEA LEVEL (Track with profile of
76.2 mm (3 in)) 30**

Drive Pulley.....	30
Driven Pulley	30
Vehicle Calibration	30
Chaincase Gears.....	30

**FREERIDE 146" AND 154" 800R E-TEC
HIGH ALTITUDE / SUMMIT BURTON 154"
800R E-TEC (CAN / USA) /SUMMIT SP
146", 154" AND 163" 800R E-TEC HIGH
ALTITUDE (Track with profile of 63.5 mm
(2-1/2 in)) / SUMMIT X 154" 800R E-TEC
HIGH ALTITUDE (Track with profile of
63.5 mm (2-1/2 in)) 32**

Drive Pulley.....	32
Driven Pulley	32
Vehicle Calibration	32
Chaincase Gears.....	33

**SUMMIT X 154", 163" AND 174" 800R
E-TEC HIGH ALTITUDE (Track with profile
of 76.2 mm (3 in)) / SUMMIT SP 154", 163"
AND 174" 800R E-TEC HIGH ALTITUDE
(Track with profile of 76.2 mm (3 in)) ... 35**

Drive Pulley.....	35
Driven Pulley	35
Vehicle Calibration	35
Chaincase Gears.....	36

**MX Z TNT 800R E-TEC / MX Z BLIZZARD
800R E-TEC / MX Z X 800R E-TEC / MX Z
X-RS 800R E-TEC / 38**

Drive Pulley.....	38
Driven Pulley	38

**RENEGADE ADRENALINE 800R E-TEC /
RENEGADE X 800R E-TEC / RENEGADE
ENDURO 800R E-TEC / RENEGADE
X-RS 800R E-TEC (CAN / USA) (Track
with profile of 38.1 mm and 40.7 mm
(1-1/2 in and 1-19/32 in))..... 39**

Drive Pulley.....	39
Driven Pulley	39

**FREERIDE 137" 800R E-TEC (Track profile
of 44.5 mm (1-3/4 in)) / RENEGADE
BACKCOUNTRY 800R E-TEC /
RENEGADE BACKCOUNTRY X 800R
E-TEC / RENEGADE X-RS 800R E-TEC
(EUROPE) (Track with profile of 44.5 mm
(1-3/4 in)) 40**

Drive Pulley.....	40
Driven Pulley	40

EXPEDITION EXTREME 800R E-TEC.... 41

Drive Pulley.....	41
Driven Pulley	41

**TUNDRA SPORT 600 ACE / TUNDRA LT
600 ACE / EXPEDITION SPORT 600 ACE /
RENEGADE SPORT 600 ACE 42**

Drive Pulley.....	42
Driven Pulley	42

GRAND TOURING SPORT 600 ACE / MX Z SPORT 600 ACE.....	43
Drive Pulley.....	43
Driven Pulley	43
SKANDIC WT 600 ACE	44
Drive Pulley.....	44
Driven Pulley	44
GRAND TOURING LE 1200 4-TEC / GRAND TOURING SE 1200 4-TEC / MX Z TNT 1200 4-TEC / MX Z X 1200 4-TEC / MX Z BLIZZARD 1200 4-TEC / RENEGADE ADRENALINE 1200 4-TEC / RENEGADE X 1200 4-TEC / RENEGADE ENDURO 1200 4-TEC.....	45
Drive Pulley.....	45
Driven Pulley	45
EXPEDITION LE 1200 4-TEC / EXPEDITION SE 1200 4-TEC	46
Drive Pulley.....	46
Driven Pulley	46
EXPEDITION SPORT 900 ACE / GRAND TOURING LE 900 ACE / MX Z TNT 900 ACE / MX Z BLIZZARD 900 ACE / RENEGADE ADRENALINE 900 ACE / RENEGADE ENDURO 900 ACE.....	47
Drive Pulley.....	47
Driven Pulley	47
SKANDIC WT 900 ACE / SKANDIC SWT 900 ACE / EXPEDITION LE 900 ACE / EXPEDITION SE 900 ACE.....	48
Drive Pulley.....	48
Driven Pulley	48
OPTIONAL DRIVE PULLEY SPRING RATES AND SPECIFICATIONS	49
eDrive I (550F)	49
eDrive II (600 ACE / 900 ACE / 1200 4-TEC)	49

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.
2016	2016-5
2015	2015-5
2014	2014-4
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".

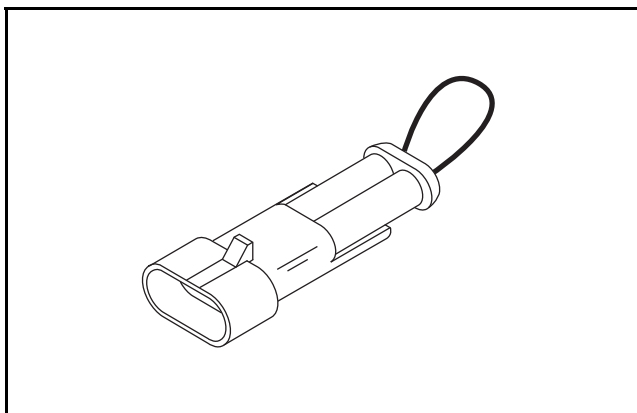
NOTICE The following modifications and adjustments apply for high altitude operation as well as sea level operation.

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"	860 201 418
154"	860 201 419
163"	860 201 420
154" (T3™ Package)	860 201 422
163" (T3 Package)	860 201 421
174" (T3 Package)	860 201 420

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 860 201 418)			
DESCRIPTION		PART NUMBER	QTY
Drive pulley	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/Yellow)	414 689 500	1
	M14 spring washer	250 200 006	1
Driven pulley	Spring (Black)	417 127 039	1

SEA LEVEL CALIBRATION KIT (P/N 860 201 419)			
DESCRIPTION		PART NUMBER	QTY
Drive pulley	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/Yellow)	414 689 500	1
	M14 spring washer	250 200 006	1
	Upper gear - 21 teeth	504 096 200	1
	Chain - 106 links	504 152 630	1
Driven pulley	Spring (Black)	417 127 039	1

SEA LEVEL CALIBRATION KIT (P/N 860 201 420)			
DESCRIPTION		PART NUMBER	QTY
Drive pulley	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/Yellow)	414 689 500	1
	M14 spring washer	250 200 006	1
	Upper gear - 21 teeth	504 096 200	1
Driven pulley	Spring (Black)	417 127 039	1

SEA LEVEL CALIBRATION KIT (P/N 860 201 421)			
DESCRIPTION		PART NUMBER	QTY
Drive pulley	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/Yellow)	414 689 500	1
	M14 spring washer	250 200 006	1
	Upper gear - 23 teeth	504 091 000	1
Driven pulley	Spring (Black)	417 127 039	1

SEA LEVEL CALIBRATION KIT (P/N 860 201 422)			
DESCRIPTION		PART NUMBER	QTY
Drive pulley	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/Yellow)	414 689 500	1
	M14 spring washer	250 200 006	1
	Upper gear - 23 teeth	504 091 000	1
	Chain - 112 links	504 153 268	1
	Spring (Black)	417 127 039	1

EXPEDITION® SPORT 550F / TUNDRA™ SPORT 550F / TUNDRA LT 550F

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 417 223 316)	Red/Green (P/N 417 223 459)	Red/Red (P/N 417 223 186)	Red/Yellow (P/N 417 223 315)	Red/Orange (P/N 417 223 316)	Red/Green (P/N 417 223 459)
Ramp	700 (P/N 417 223 604)		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 $\pm$ 0.7 (lb $\pm$ 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

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 417 223 316)	Red/Green (P/N 417 223 459)	Red/Red (P/N 417 223 186)	Red/Yellow (P/N 417 223 315)	Red/Orange (P/N 417 223 316)	Red/Green (P/N 417 223 459)
Ramp	700 (P/N 417 223 604)		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	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	200						1	
Jet needle		6BFY46							2
MAG needle position		3	2			1		—	
PTO needle position		4							
Slide cut-away		2.0							2
Pilot jet		35	40					2	
MAG mixture screw		2.5			2			—	
PTO mixture screw		1							
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						

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 ± 100	3800			3900	4100	
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 $\pm$ 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						

RENEGADE™ 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 414 817 900)			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	3400			4100		
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 $\pm$ 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 ± 100	3400		4100			
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 $\pm$ 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® / EXPEDITION 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	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					

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 / 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 ± 100	3000					
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	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)					

GRAND TOURING 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	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 $\pm$ 0.7 (lb $\pm$ 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 /
MX Z BLIZZARD™ 600 HO E-TEC /
MX Z X™ 600 HO E-TEC /
MX Z X-RS™ 600 HO E-TEC /
RENEGADE™ ADRENALINE™ 600 HO E-TEC /
RENEGADE ENDURO 600 HO E-TEC /
RENEGADE BACKCOUNTRY™ 600 HO E-TEC /
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)			417 (P/N 417 222 552)		
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)		

TUNDRA Xtreme 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/Orange (P/N 415 015 200)			Blue/Green (P/N 414 817 700)		
Ramp	417 (P/N 417 222 552)					
Calibration Screw Position	3	4	5	3	4	5
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			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	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		

SUMMIT SP 146" AND 154" 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	Blue/Green (P/N 414 817 700)		Purple/Green (P/N 415 015 400)			
Ramp	412 (P/N 417 222 515)		440 (P/N 417 223 096)			
Calibration Screw Position	3	4	3	4	5	6
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	3300		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 $\pm$ 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 SP 146" AND 154" 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	3	4	5	6
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		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 $\pm$ 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)		Short threaded 32 mm/10,88 g (P/N 417 222 477) 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	3000		3800			
Maximum RPM ± 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						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						
-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						

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 (EUROPE) **(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 ± 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	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

**FREERIDE 146" AND 154" 800R E-TEC SEA-LEVEL /
SUMMIT X 154" 800R E-TEC SEA-LEVEL
(Track with profile of 63.5 mm (2-1/2 in)) /
SUMMIT BURTON 154" 800R
E-TEC SEA-LEVEL (EUROPE) /
SUMMIT SP 146", 154" AND 163"
800R E-TEC SEA-LEVEL (EUROPE)
(Track with profile of 63.5 mm (2-1/2 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	Blue/Yellow (P/N 414 689 500)		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 ± 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	Black (P/N 417 127 039)					
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 (FREERIDE EUROPE)						
	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)					
Lower gear	49 (P/N 504 152 581)					
Chain	106 (P/N 504 152 630)					

146" MODELS (FREERIDE CAN / USA)						
	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	23 (P/N 504 091 000)		21 (P/N 504 096 200)			
Lower gear	51 (P/N 504 152 971)					
Chain	108 (P/N 504 152 631)		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 (10000 FT)
Upper gear	21 (P/N 504 096 200)		19 (P/N 504 152 030)			
Lower gear	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	21 (P/N 504 096 200)		19 (P/N 504 152 030)			
Lower gear	51 (P/N 504 152 971)					
Chain	106 (P/N 504 152 630)					

SUMMIT X 154", 163" AND 174" 800R E-TEC SEA LEVEL (Track with profile of 76.2 mm (3 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	Blue/Yellow (P/N 414 689 500)		Purple/Purple (P/N 414 817 900)			
Ramp	413 (P/N 417 222 508)		438 (P/N 417 223 049)			
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 ± 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	Black (P/N 417 127 039)					
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

154" T3 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	23 (P/N 504 091 000)			21 (P/N 504 096 200)		
Lower gear	49 (P/N 504 153 267)					
Chain	▶ 112 (P/N 504 153 268)			110 (P/N 504 153 266) ◀		

163" T3 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	23 (P/N 504 091 000)		21 (P/N 504 096 200)			
Lower gear	51 (P/N 504 153 227)					
Chain	112 (P/N 504 153 268)					

174" T3 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 504 153 267)					
Chain	110 (P/N 504 153 266)					

**FREERIDE 146" AND 154"
800R E-TEC HIGH ALTITUDE /
SUMMIT BURTON 154" 800R E-TEC (CAN / USA) /
SUMMIT SP 146", 154" AND 163"
800R E-TEC HIGH ALTITUDE
(Track with profile of 63.5 mm (2-1/2 in)) /
SUMMIT X 154" 800R E-TEC HIGH ALTITUDE
(Track with profile of 63.5 mm (2-1/2 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	Blue/Yellow (P/N 414 689 500)		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	3000		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 $\pm$ 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 (FREERIDE)						
	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	23 (P/N 504 091 000)		21 (P/N 504 096 200)			
Lower gear	49 (P/N 504 152 581)					
Chain	108 (P/N 504 152 631)		106 (P/N 504 152 630)			

146" MODELS (SUMMIT)						
	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)					
Lower gear	49 (P/N 504 152 581)					
Chain	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)					
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)					
Chain	106 (P/N 504 152 630)					

Sea Level Calibration Kit

MODEL	PART NUMBER
146"	860 201 418
154"	860 201 419
163"	860 201 420

Summit 800R E-TEC Theoretical Speed

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)
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 T3 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

SUMMIT X 154", 163" AND 174" 800R E-TEC HIGH ALTITUDE (Track with profile of 76.2 mm (3 in)) / SUMMIT SP 154", 163" AND 174" 800R E-TEC HIGH ALTITUDE (Track with profile of 76.2 mm (3 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	Blue/Yellow (P/N 414 689 500)		Purple/Pink (P/N 414 949 500)			
Ramp	413 (P/N 417 222 508)		438 (P/N 417 223 049)			
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	3000		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	Black (P/N 417 127 039)		Blue (P/N 417 127 118)			
Spring tension Kg ± 0.7 (lb ± 1.5)	N/A					
Cam angle (degrees)	40° (P/N 417 127 386)					

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

154" T3 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	23 (P/N 504 091 000)		21 (P/N 504 096 200)		
Lower gear	49 (P/N 504 153 267)				
Chain	▶ 112 (P/N 504 153 268)		110 (P/N 504 153 266) ◀		

163" T3 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	23 (P/N 504 091 000)			21 (P/N 504 096 200)		
Lower gear	51 (P/N 504 153 227)					
Chain	112 (P/N 504 153 268)					

174" T3 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 504 153 267)					
Chain	110 (P/N 504 153 266)					

Sea Level Calibration Kit

MODEL	PART NUMBER
154" T3	860 201 422
163" T3	860 201 421
174" T3	860 201 420

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

NOTE: Summit with T3 package are equipped with 7 tooth sprocket instead of 8 tooth sprocket like none T3 Summit. Theoretical speed and gear ratio recommendation for Summit with T3 package will differ from a Summit without T3 package, with same gear ratio.

MODEL	UPPER GEAR	LOWER GEAR	CHAIN	THEORETICAL SPEED (KM/H / MPH)
Summit 154 T3*	21	49	112	128 km/h (80 MPH)
Summit 154 T3**	23	49	110	140 km/h (87 MPH)
Summit 163 T3*	21	51	112	123 km/h (76 MPH)
Summit 163 T3**	23	51	112	134 km/h (83 MPH)
Summit 174 T3*	19	49	110	116 km/h (72 MPH)
Summit 174 T3**	21	49	110	127 km/h (79 MPH)

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

NOTE: Summit with T3 package are equipped with 7 tooth sprocket instead of 8 tooth sprocket like none T3 Summit. Theoretical speed and gear ratio recommendation for Summit with T3 package may differ from a Summit without T3 package, with same gear ratio.

TRACK LENGTH	GEAR RATIO	RECOMMENDATION	PRO'S	CON'S
154" T3	21/49*	For extreme deep snow condition only	Better belt life in all around condition	128 km/h max speed. Rev limiter can turn on
154" T3	23/49**	Deep snow / Best all around gear ratio	Higher maximum speed	Performance and belt life reduced in deep snow condition
163" T3	21/51*	For extreme deep snow condition only	Better belt life in all around condition	123 km/h max speed. Rev limiter can turn on
163" T3	23/51**	Deep snow / Best all around gear ratio	Higher maximum speed	Performance and belt life reduced in deep snow condition
174" T3	19/49*	For extreme deep snow condition only	Increase performance and belt life in extreme deep and heavy snow condition	116 Km/h max speed. Rev limiter can often turn on
174" T3	21/49**	Deep snow / Best all around gear ratio	Better belt life in all around condition	127 Km/h max speed

* Factory Installed

** Included in Sea-Level calibration kit

*** Optional calibration

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

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 ± 0.7 (lb ± 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 /
RENEGADE ENDURO 800R E-TEC /
RENEGADE X-RS 800R E-TEC (CAN / USA)
(Track with profile of 38.1 mm and 40.7 mm
(1-1/2 in and 1-19/32 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	Blue/Green (P/N 414 817 700)		Blue/Blue (P/N 414 689 400)			
Ramp	414 (P/N 417 222 546)		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/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)					
Spring tension Kg $\pm$ 0.7 (lb $\pm$ 1.5)	N/A					
Cam angle (degrees)	44° - 42° (P/N 417 126 973)					

FREERIDE 137" 800R E-TEC
(Track profile of 44.5 mm (1-3/4 in)) /
RENEGADE BACKCOUNTRY 800R E-TEC /
RENEGADE BACKCOUNTRY X 800R E-TEC /
RENEGADE X-RS 800R E-TEC (EUROPE)
(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)	438 (P/N 417 223 049)				
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)					
Spring tension Kg $\pm$ 0.7 (lb $\pm$ 1.5)	N/A					
Cam angle (degrees)	44° - 42° (P/N 417 126 973)					

EXPEDITION EXTREME 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)		Blue/Pink (P/N 414 916 300)			
Ramp	413 (P/N 417 222 508)					
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/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	White (P/N 417 127 243)					
Spring tension Kg $\pm$ 0.7 (lb $\pm$ 1.5)	N/A					
Cam angle (degrees)	40° (P/N 417 127 386)					

TUNDRA SPORT 600 ACE / TUNDRA LT 600 ACE / EXPEDITION SPORT 600 ACE / RENEGADE SPORT 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 417 223 747)	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 ± 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 $\pm$ 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 / MX Z SPORT 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/Red (P/N 417 223 745)	Red/Yellow (P/N 417 223 748)	Red/Orange (P/N 417 223 749)	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 ± 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 $\pm$ 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

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 ± 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 $\pm$ 0.7 (lb $\pm$ 1.5)	6.4 kgf (14.1 lbf)					
Cam angle (degrees)	37°-45° (P/N 417 127 240)					

**GRAND TOURING LE 1200 4-TEC /
 GRAND TOURING SE 1200 4-TEC /
 MX Z TNT 1200 4-TEC /
 MX Z X 1200 4-TEC /
 MX Z BLIZZARD 1200 4-TEC /
 RENEGADE ADRENALINE 1200 4-TEC /
 RENEGADE X 1200 4-TEC /
 RENEGADE ENDURO 1200 4-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/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	749 (P/N 417 224 103)		750 (P/N 417 224 105)			
Engagement RPM ± 100	2200					
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	Red/Red (P/N 417 127 467)					
Spring tension Kg $\pm$ 0.7 (lb $\pm$ 1.5)	7 kg (15.4 lb)					
Cam angle (degrees)	44° - 40° (P/N 417 127 476)					

EXPEDITION LE 1200 4-TEC / EXPEDITION SE 1200 4-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 417 223 751)	Red/White (P/N 417 223 747)	Yellow/Red (P/N 417 223 751)	Yellow/Orange (P/N 417 223 746)	
Ramp		749 (P/N 417 224 103)	750 (P/N 417 224 105)			
Engagement RPM ± 100		2200				
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		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)		44° - 40 (P/N 417 127 424)				

EXPEDITION SPORT 900 ACE / GRAND TOURING LE 900 ACE / MX Z TNT 900 ACE / MX Z BLIZZARD 900 ACE / RENEGADE ADRENALINE 900 ACE / RENEGADE ENDURO 900 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	▶ <u>Yellow/Blue</u> <u>(P/N 417 224 085)</u> ◀		Yellow/Orange (P/N 417 223 746)	Yellow/Red (P/N 417 223 751)		Yellow/Orange (P/N 417 223 746)
Ramp	749 (P/N 417 224 103)		751 (P/N 417 224 107)			
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	Red/Red (P/N 417 127 467)					
Spring tension Kg ± 0.7 (lb ± 1.5)	7 kg (15.4 lb)					
Cam angle (degrees)	47° - 40° (P/N 417 127 474)					

SKANDIC WT 900 ACE / SKANDIC SWT 900 ACE / EXPEDITION LE 900 ACE / EXPEDITION SE 900 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/Red (P/N 417 223 745)	Yellow/Orange (P/N 417 223 746)	Yellow/Red (P/N 417 223 751)		Yellow/Orange (P/N 417 223 746)
Ramp	740 (P/N 417 223 679)		742 (P/N 417 223 918)			
Engagement RPM ± 100	2200					
Maximum RPM ± 100	7250					

Driven Pulley

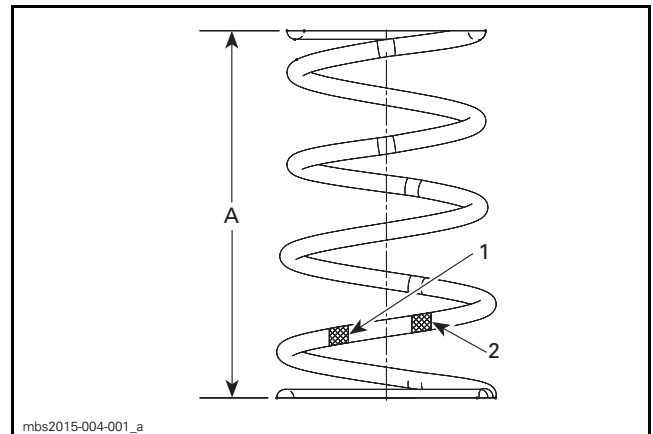
	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring		Orange/ Orange (P/N 417 127 434)				
Spring tension Kg $\pm$ 0.7 (lb $\pm$ 1.5)		7 kg (15.4 lb)				
Cam angle (degrees)		44° - 40° (P/N 417 127 412)				

OPTIONAL DRIVE PULLEY SPRING RATES AND SPECIFICATIONS

The springs for eDrive™ I and eDrive II pulleys are different.

- eDrive I: cone shaped springs
- eDrive II: straight shaped springs.

The springs for TRA pulleys can not be installed on eDrive II.



TYPICAL - COLOR CODE

1. 1st color
2. 2nd color

eDrive I (550F)

SPRING SPECIFICATIONS							
PART NUMBER	WIRE DIA.	FREE LENGHT	LOAD ± 10% WHEN "A" = 60.6 MM		LOAD ± 10% WHEN "A" = 28 MM		COLOR CODE
	MM		N	LBS	N	LBS	
417 223 186	4.50	96.0	356	80	667	150	Red / Red
417 223 223	4.80	130.0	489	110	845	190	Yellow / Orange
417 223 314	4.30	114.7	356	80	578	130	Red / White
417 223 315	4.80	90.4	356	80	756	170	Red / Yellow
417 223 316	4.95	84.7	356	80	845	190	Red / Orange
417 223 459	5.08	81.7	356	80	934	210	Red / Green
417 223 536	4.30	125	445	100	667	150	Yellow / Red

eDrive II (600 ACE / 900 ACE / 1200 4-TEC)

SPRING SPECIFICATIONS							
PART NUMBER	WIRE DIA.	FREE LENGHT	LOAD ± 10% WHEN "A" = 60.6 MM		LOAD ± 10% WHEN "A" = 28 MM		COLOR CODE
	MM		N	LBS	N	LBS	
417 223 745	4.50	97.9	356	80	667	150	Red / Red
417 223 746	4.50	105.4	489	110	845	190	Yellow / Orange
417 223 747	4.30	108.0	356	80	600	135	Red / White
417 223 748	4.80	87.3	355	80	789	177	Red / Yellow
417 223 749	4.80	84.3	355	80	845	190	Red / Orange
417 223 750	5.0	80.5	355	80	934	210	Red / Green
417 223 751	4.30	120.0	446	100	690	155	Yellow / Red