



# SERVICE BULLETIN

SKI-DOO®

June 2016

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

No. **2017-2**

**REVISION ►3**  
**June 2018◄**

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

| YEAR | MODEL       |
|------|-------------|
| 2017 | All Ski-Doo |

## TABLE OF CONTENTS

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

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

|                     |    |
|---------------------|----|
| Drive Pulley.....   | 21 |
| Driven Pulley ..... | 21 |

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

|                           |    |
|---------------------------|----|
| Drive Pulley.....         | 22 |
| Driven Pulley .....       | 22 |
| Vehicle Calibration ..... | 22 |

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

|                           |    |
|---------------------------|----|
| Drive Pulley.....         | 23 |
| Driven Pulley .....       | 23 |
| Vehicle Calibration ..... | 23 |

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

|                           |    |
|---------------------------|----|
| Drive Pulley.....         | 24 |
| Driven Pulley .....       | 24 |
| Vehicle Calibration ..... | 24 |

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

|                           |    |
|---------------------------|----|
| Drive Pulley.....         | 25 |
| Driven Pulley .....       | 25 |
| Vehicle Calibration ..... | 25 |

**FREERIDE 146" AND 154" 800R E-TEC  
SEA-LEVEL /SUMMIT BURTON 154" 800R  
E-TEC SEA-LEVEL (EUROPE) .....**

|                           |    |
|---------------------------|----|
| Drive Pulley.....         | 26 |
| Driven Pulley .....       | 26 |
| Vehicle Calibration ..... | 26 |
| Chaincase Gears.....      | 26 |

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

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

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

|                           |    |
|---------------------------|----|
| Drive Pulley.....         | 31 |
| Driven Pulley .....       | 31 |
| Vehicle Calibration ..... | 31 |
| Chaincase Gears.....      | 32 |

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

|                     |    |
|---------------------|----|
| Drive Pulley.....   | 34 |
| Driven Pulley ..... | 34 |

**RENEGADE ENDURO 800R E-TEC  
/RENEGADE X-RS 800R E-TEC  
(CAN/US) .....**

|                     |    |
|---------------------|----|
| Drive Pulley.....   | 35 |
| Driven Pulley ..... | 35 |

**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) .....**

|                     |    |
|---------------------|----|
| Drive Pulley.....   | 36 |
| Driven Pulley ..... | 36 |

**EXPEDITION Xtreme 800R E-TEC (CAN /  
USA).....**

|                     |    |
|---------------------|----|
| Drive Pulley.....   | 37 |
| Driven Pulley ..... | 37 |

**EXPEDITION Xtreme 800R E-TEC  
(EUROPE) .....**

|                     |    |
|---------------------|----|
| Drive Pulley.....   | 38 |
| Driven Pulley ..... | 38 |

**►SUMMIT X 154" AND 165" 850 E-TEC  
SEA-LEVEL /SUMMIT SP 154" AND 165"  
850 E-TEC SEA-LEVEL◄ .....**

|                           |    |
|---------------------------|----|
| ►Drive Pulley◄ .....      | 39 |
| Driven Pulley .....       | 39 |
| Vehicle Calibration ..... | 39 |
| Chaincase Gears.....      | 39 |

**►SUMMIT X 154" AND 165" 850 E-TEC  
HIGH ALTITUDE /SUMMIT SP 154" AND  
165" 850 E-TEC HIGH ALTITUDE◄ .....**

|                           |    |
|---------------------------|----|
| ►Drive Pulley◄ .....      | 41 |
| Driven Pulley .....       | 41 |
| Vehicle Calibration ..... | 41 |
| Chaincase Gears.....      | 41 |

**MX Z TNT 850 E-TEC /MX Z X 850  
E-TEC.....**

|                     |    |
|---------------------|----|
| Drive Pulley.....   | 43 |
| Driven Pulley ..... | 43 |

**RENEGADE ADRENALINE 850 E-TEC  
/RENEGADE X 850 E-TEC .....**

|                     |    |
|---------------------|----|
| Drive Pulley.....   | 44 |
| Driven Pulley ..... | 44 |

|                                                                                                                                                                                                             |           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| <b>TUNDRA SPORT 600 ACE /TUNDRA LT<br/>600 ACE /EXPEDITION SPORT 600 ACE<br/>/RENEGADE SPORT 600 ACE .....</b>                                                                                              | <b>45</b> |
| Drive Pulley.....                                                                                                                                                                                           | 45        |
| Driven Pulley .....                                                                                                                                                                                         | 45        |
| <b>GRAND TOURING SPORT 600 ACE /MX Z<br/>SPORT 600 ACE.....</b>                                                                                                                                             | <b>46</b> |
| Drive Pulley.....                                                                                                                                                                                           | 46        |
| Driven Pulley .....                                                                                                                                                                                         | 46        |
| <b>SKANDIC WT 600 ACE .....</b>                                                                                                                                                                             | <b>47</b> |
| Drive Pulley.....                                                                                                                                                                                           | 47        |
| Driven Pulley .....                                                                                                                                                                                         | 47        |
| <b>EXPEDITION SPORT 900 ACE /GRAND<br/>TOURING LE 900 ACE /GRAND TOURING<br/>SE 900 ACE /MX Z TNT 900 ACE /MX<br/>Z BLIZZARD 900 ACE /RENEGADE<br/>ADRENALINE 900 ACE /RENEGADE<br/>ENDURO 900 ACE.....</b> | <b>48</b> |
| Drive Pulley.....                                                                                                                                                                                           | 48        |
| Driven Pulley .....                                                                                                                                                                                         | 48        |
| <b>SKANDIC WT 900 ACE /SKANDIC SWT<br/>900 ACE /EXPEDITION LE 900 ACE<br/>/EXPEDITION SE 900 ACE .....</b>                                                                                                  | <b>49</b> |
| Drive Pulley.....                                                                                                                                                                                           | 49        |
| Driven Pulley .....                                                                                                                                                                                         | 49        |
| <b>MX Z TNT 1200 4-TEC /MX Z X 1200 4-TEC<br/>/MX Z BLIZZARD 1200 4-TEC /RENEGADE<br/>ADRENALINE 1200 4-TEC /RENEGADE X<br/>1200 4-TEC /RENEGADE ENDURO 1200<br/>4-TEC.....</b>                             | <b>50</b> |
| Drive Pulley.....                                                                                                                                                                                           | 50        |
| Driven Pulley .....                                                                                                                                                                                         | 50        |
| <b>GRAND TOURING LE 1200 4-TEC /GRAND<br/>TOURING SE 1200 4-TEC /.....</b>                                                                                                                                  | <b>51</b> |
| Drive Pulley.....                                                                                                                                                                                           | 51        |
| Driven Pulley .....                                                                                                                                                                                         | 51        |
| <b>EXPEDITION LE 1200 4-TEC /EXPEDITION<br/>SE 1200 4-TEC .....</b>                                                                                                                                         | <b>52</b> |
| Drive Pulley.....                                                                                                                                                                                           | 52        |
| Driven Pulley .....                                                                                                                                                                                         | 52        |
| <b>OPTIONAL DRIVE PULLEY SPRING RATES<br/>AND SPECIFICATIONS .....</b>                                                                                                                                      | <b>53</b> |
| eDrive II (900 ACE / 1200 4-TEC) and eDrive II<br>LC (550F / 600 ACE) .....                                                                                                                                 | 53        |

# 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. |
|------------|---------------------------------|
| 2017       | 2017-2                          |
| 2016       | 2016-5                          |
| 2015       | 2015-5                          |
| 2014       | 2014-4                          |
| 2013       | 2013-2                          |

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

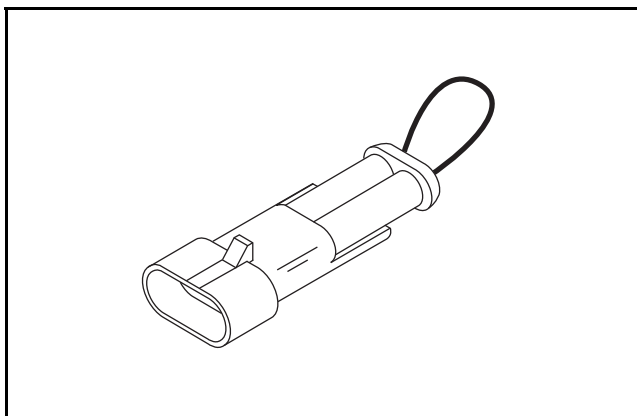
**NOTICE** The following modifications and adjustments apply for high altitude operation as well as sea level operation.

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

## Reverse Connector

The reverse connector (P/N 515174700) 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 |
|--------------------------------|-------------|
| Freeride and Summit 800R E-TEC |             |
| All                            | 860201418   |
| Summit 850 E-TEC               |             |
| 154" et 165"                   | ►860201977◀ |

## Kit Description

| SEA LEVEL CALIBRATION KIT (P/N 860201418) |                                |             |     |
|-------------------------------------------|--------------------------------|-------------|-----|
| DESCRIPTION                               |                                | PART NUMBER | QTY |
| Drive pulley                              | Ramp 413                       | 417222508   | 3   |
|                                           | Long solid pin 35,75 mm/18,8 g | 417222594   | 3   |
|                                           | Cotter pin                     | 250400060   | 3   |
|                                           | Spring (Blue/Yellow)           | 414689500   | 1   |
|                                           | M14 spring washer              | 250200006   | 1   |
| Driven pulley                             | Spring (Black)                 | 417127039   | 1   |

| ► <u>SEA LEVEL CALIBRATION KIT</u><br>(P/N 860201977) ◀ |                         |                      |     |
|---------------------------------------------------------|-------------------------|----------------------|-----|
| DESCRIPTION                                             |                         | PART<br>NUMBER       | QTY |
| Drive<br>pulley                                         | ► <u>Ramp 966</u> ◀     | ► <u>417224147</u> ◀ | 3   |
|                                                         | Pivot<br>33 mm          | 417224116            | 3   |
|                                                         | Spring<br>(Blue/Yellow) | 417224015            | 1   |
| Driven<br>pulley                                        | Spring (Black)          | 417127039            | 1   |

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

## Drive Pulley

|                         | SEA LEVEL<br>0 M (0 FT)           | 600 M<br>(2000 FT)               | 1200 M<br>(4000 FT)            | 1800 M<br>(6000 FT)               | 2400 M<br>(8000 FT)               | 3000 M<br>(10000 FT)             |
|-------------------------|-----------------------------------|----------------------------------|--------------------------------|-----------------------------------|-----------------------------------|----------------------------------|
| Spring                  | Red/Yellow<br>(P/N 417<br>223748) | Red/Green<br>(P/N 417<br>223750) | Red/Red<br>(P/N 417<br>223745) | Red/Yellow<br>(P/N 417<br>223748) | Red/Orange<br>(P/N 417<br>223749) | Red/Green<br>(P/N 417<br>223750) |
| Ramp                    | 700 (P/N 417223604)               |                                  | 734 (P/N 417223678)            |                                   |                                   |                                  |
| Ramp quantity           | 6                                 |                                  |                                |                                   |                                   |                                  |
| Engagement<br>RPM ± 100 | 2600                              |                                  |                                |                                   |                                   |                                  |
| Maximum<br>RPM ± 100    | 6800                              |                                  |                                |                                   |                                   |                                  |

## Driven Pulley

|                                               | SEA LEVEL<br>0 M (0 FT) | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
|-----------------------------------------------|-------------------------|--------------------|---------------------|---------------------|---------------------|----------------------|
| Spring                                        | Brown (P/N 417127061)   |                    |                     |                     |                     |                      |
| Spring tension<br>Kg $\pm$ 0.7 (lb $\pm$ 1.5) | N/A                     |                    |                     |                     |                     |                      |
| Cam angle (degrees)                           | 44° (P/N 417127011)     |                    |                     |                     |                     |                      |

## 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<br>0 M (0 FT) | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(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<br>(± 1 mm)                       |     | 23.9                    |                    |                     |                     |                     |                      |     | — |
| Idle RPM<br>(± 200)                           |     | 1650                    |                    |                     |                     |                     |                      |     | — |
| Idle throttle<br>valve position<br>(± 0.1 mm) |     | 1.6                     |                    |                     | 1.8                 | 2                   | 2.2                  | 2.4 | — |

## Main Jet Chart

|               | SEA LEVEL<br>0 M (0 FT) |     | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(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<br>0 M (0 FT) | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT)            | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
| Reverse connector | (P/N 515174800)         |                    |                     | (P/N 515174700) Connect to ECM |                     |                      |

# SKANDIC WT 550F

## Drive Pulley

|                         | SEA LEVEL<br>0 M (0 FT)           | 600 M<br>(2000 FT)               | 1200 M<br>(4000 FT)            | 1800 M<br>(6000 FT)               | 2400 M<br>(8000 FT)               | 3000 M<br>(10000 FT)             |
|-------------------------|-----------------------------------|----------------------------------|--------------------------------|-----------------------------------|-----------------------------------|----------------------------------|
| Spring                  | Red/Yellow<br>(P/N 417<br>223748) | Red/Green<br>(P/N 417<br>223750) | Red/Red<br>(P/N 417<br>223745) | Red/Yellow<br>(P/N 417<br>223748) | Red/Orange<br>(P/N 417<br>223749) | Red/Green<br>(P/N 417<br>223750) |
| Ramp                    | 700 (P/N 417223604)               |                                  | 734 (P/N 417223678)            |                                   |                                   |                                  |
| Ramp quantity           | 6                                 |                                  |                                |                                   |                                   |                                  |
| Engagement<br>RPM ± 100 | 2600                              |                                  |                                |                                   |                                   |                                  |
| Maximum<br>RPM ± 100    | 6800                              |                                  |                                |                                   |                                   |                                  |

## Driven Pulley

|                                               | SEA LEVEL<br>0 M (0 FT)   | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
|-----------------------------------------------|---------------------------|--------------------|---------------------|---------------------|---------------------|----------------------|
| Spring                                        | Pink 2 (P/N 417127236)    |                    |                     |                     |                     |                      |
| Spring tension<br>Kg $\pm$ 0.7 (lb $\pm$ 1.5) | 6.4 kgf (14.1 lbf)        |                    |                     |                     |                     |                      |
| Cam angle (degrees)                           | 47° - 44° (P/N 417127148) |                    |                     |                     |                     |                      |

## 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<br>0 M (0 FT) | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(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<br>(± 1 mm)                       |     | 23.9                    |                    |                     |                     |                     |                      |   | — |
| Idle RPM<br>(± 200)                           |     | 1650                    |                    |                     |                     |                     |                      |   | — |
| Idle throttle<br>valve position<br>(± 0.1 mm) |     | 1.5                     | 1.7                | 1.8                 | 2                   | 2.1                 | 2.2                  | — |   |

## Main Jet Chart

|               | SEA LEVEL<br>0 M (0 FT) | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(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<br>0 M (0 FT)                         | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT)                               | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
|-------------------------------|-------------------------------------------------|--------------------|---------------------|---------------------------------------------------|---------------------|----------------------|
| Spring                        | Purple/Purple (P/N 414817900)                   |                    |                     | Pink/Purple (P/N 414754200)                       |                     |                      |
| Ramp                          | 412 (P/N 417222515)                             |                    |                     |                                                   |                     |                      |
| Calibration Screw<br>Position | 3                                               | 4                  | 5                   | 4                                                 | 5                   | 6                    |
| Pin                           | Short solid<br>32 mm/16,75 g<br>(P/N 417004308) |                    |                     | Short no thread<br>32 mm/9,9 g<br>(P/N 417004309) |                     |                      |
| Engagement<br>RPM ± 100       | 3800                                            |                    |                     | 3900                                              | 4100                |                      |
| Maximum<br>RPM ± 100          | 8100                                            |                    |                     |                                                   |                     |                      |

## Driven Pulley

|                                               | SEA LEVEL<br>0 M (0 FT) | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
|-----------------------------------------------|-------------------------|--------------------|---------------------|---------------------|---------------------|----------------------|
| Spring                                        | Black (P/N 417127039)   |                    |                     |                     |                     |                      |
| Spring tension<br>Kg $\pm$ 0.7 (lb $\pm$ 1.5) | N/A                     |                    |                     |                     |                     |                      |
| Cam angle (degrees)                           | 42° (P/N 417127012)     |                    |                     |                     |                     |                      |

## 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<br>0 M (0 FT) | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(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<br>(± 1 mm)                       |     | N/A                     |                    |                     |                     |                     |                      | — |
| Idle RPM<br>(± 200)                           |     | 1600                    |                    |                     |                     |                     |                      | — |
| Idle throttle<br>valve position<br>(± 0.1 mm) |     | 1.5                     | 1.6                | 1.7                 | 1.8                 | 1.9                 |                      | — |

## Main Jet Chart

|               |     | SEA LEVEL<br>0 M (0 FT) | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(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<br>0 M (0 FT)                         | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT)                               | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
|-------------------------------|-------------------------------------------------|--------------------|---------------------|---------------------------------------------------|---------------------|----------------------|
| Spring                        | Blue/Purple (P/N 414817900)                     |                    |                     | Pink/Purple (P/N 414754200)                       |                     |                      |
| Ramp                          | 412 (P/N 417222515)                             |                    |                     |                                                   |                     |                      |
| Calibration Screw<br>Position | 3                                               | 4                  | 5                   | 4                                                 | 5                   | 6                    |
| Pin                           | Short solid<br>32 mm/16,75 g<br>(P/N 417004308) |                    |                     | Short no thread<br>32 mm/9,9 g<br>(P/N 417004309) |                     |                      |
| Engagement<br>RPM ± 100       | 3400                                            |                    |                     | 4100                                              |                     |                      |
| Maximum<br>RPM ± 100          | 8100                                            |                    |                     |                                                   |                     |                      |

## Driven Pulley

|                                               | SEA LEVEL<br>0 M (0 FT) | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
|-----------------------------------------------|-------------------------|--------------------|---------------------|---------------------|---------------------|----------------------|
| Spring                                        | Black (P/N 417127039)   |                    |                     |                     |                     |                      |
| Spring tension<br>Kg $\pm$ 0.7 (lb $\pm$ 1.5) | N/A                     |                    |                     |                     |                     |                      |
| Cam angle (degrees)                           | 42° (P/N 417127012)     |                    |                     |                     |                     |                      |

## 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<br>0 M (0 FT) | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(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<br>(± 1 mm)                       |     | N/A                     |                    |                     |                     |                     |                      | — |
| Idle RPM<br>(± 200)                           |     | 1600                    |                    |                     |                     |                     |                      | — |
| Idle throttle<br>valve position<br>(± 0.1 mm) |     | 1.5                     | 1.6                | 1.7                 | 1.8                 | 1.9                 |                      | — |

## Main Jet Chart

|               |     | SEA LEVEL<br>0 M (0 FT) | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(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<br>0 M (0 FT)                         | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT)                                                                          | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT)                                | 3000 M<br>(10000 FT) |
|----------------------------|-------------------------------------------------|--------------------|----------------------------------------------------------------------------------------------|---------------------|----------------------------------------------------|----------------------|
| Spring                     | Blue/Pink (P/N 414916300)                       |                    | Green/Pink (P/N 414756900)                                                                   |                     |                                                    |                      |
| Ramp                       | 417 (P/N 417222552)                             |                    |                                                                                              |                     |                                                    |                      |
| Calibration Screw Position | 3                                               | 4                  | 2                                                                                            | 3                   | 4                                                  | 5                    |
| Pin                        | Short solid<br>32 mm/16,75 g<br>(P/N 417004308) |                    | Short threaded<br>32 mm/10,88 g<br>(P/N 417222477)<br>1 x set screw 20 mm<br>(P/N 206262099) |                     | Short threaded<br>32 mm/10,88 g<br>(P/N 417222477) |                      |
| Engagement<br>RPM ± 100    | 3400                                            |                    | 4100                                                                                         |                     |                                                    |                      |
| Maximum<br>RPM ± 100       | 8100                                            |                    |                                                                                              |                     |                                                    |                      |

## Driven Pulley

|                                               | SEA LEVEL<br>0 M (0 FT)   | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
|-----------------------------------------------|---------------------------|--------------------|---------------------|---------------------|---------------------|----------------------|
| Spring                                        | Black (P/N 417127039)     |                    |                     |                     |                     |                      |
| Spring tension<br>Kg $\pm$ 0.7 (lb $\pm$ 1.5) | N/A                       |                    |                     |                     |                     |                      |
| Cam angle (degrees)                           | 43° - 47° (P/N 417127133) |                    |                     |                     |                     |                      |

## 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<br>0 M (0 FT) | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(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<br>(± 1 mm)                       |     | N/A                     |                    |                     |                     |                     |                      | — |
| Idle RPM<br>(± 200)                           |     | 1600                    |                    |                     |                     |                     |                      | — |
| Idle throttle<br>valve position<br>(± 0.1 mm) |     | 1.5                     | 1.6                | 1.7                 | 1.8                 | 1.9                 |                      | — |

## Main Jet Chart

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

# EXPEDITION LE 600 HO E-TEC® / EXPEDITION SE 600 HO E-TEC

## Drive Pulley

|                               | SEA LEVEL<br>0 M (0 FT)                          | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT)                                                                    | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
|-------------------------------|--------------------------------------------------|--------------------|---------------------|----------------------------------------------------------------------------------------|---------------------|----------------------|
| Spring                        | Yellow/Red (P/N 414993000)                       |                    |                     |                                                                                        |                     |                      |
| Ramp                          | 600 (P/N 417222444)                              |                    |                     |                                                                                        |                     |                      |
| Calibration Screw<br>Position | 2                                                | 3                  | 4                   | 2                                                                                      | 3                   | 4                    |
| Pin                           | Long solid<br>35.75 mm/18,8 g<br>(P/N 417222594) |                    |                     | Short threaded<br>32 mm/10,88 g (P/N 417222477)<br>1 X set screw 16 mm (P/N 206261699) |                     |                      |
| Engagement<br>RPM ± 100       | 3000                                             |                    |                     |                                                                                        |                     |                      |
| Maximum<br>RPM + 100          | 8100                                             |                    |                     |                                                                                        |                     |                      |

## Driven Pulley

|                                               | SEA LEVEL<br>0 M (0 FT) | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
|-----------------------------------------------|-------------------------|--------------------|---------------------|---------------------|---------------------|----------------------|
| Spring                                        | White 2 (P/N 417127243) |                    |                     |                     |                     |                      |
| Spring tension<br>Kg $\pm$ 0.7 (lb $\pm$ 1.5) | 6.8 kgf (15 lbf)        |                    |                     |                     |                     |                      |
| Cam angle (degrees)                           | 40° (P/N 417127411)     |                    |                     |                     |                     |                      |

# SKANDIC WT 600 HO E-TEC / SKANDIC SWT 600 HO E-TEC

## Drive Pulley

|                               | SEA LEVEL<br>0 M (0 FT)                          | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT)                             | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
|-------------------------------|--------------------------------------------------|--------------------|---------------------|-------------------------------------------------|---------------------|----------------------|
| Spring                        | Yellow/Red (P/N 414993000)                       |                    |                     |                                                 |                     |                      |
| Ramp                          | 600 (P/N 417222444)                              |                    |                     |                                                 |                     |                      |
| Calibration Screw<br>Position | 2                                                | 3                  | 4                   | 2                                               | 3                   | 4                    |
| Pin                           | Long solid<br>35.75 mm/18,8 g<br>(P/N 417222594) |                    |                     | Short threaded<br>32 mm/10,88 g (P/N 417222477) |                     |                      |
| Engagement<br>RPM ± 100       | 3000                                             |                    |                     |                                                 |                     |                      |
| Maximum<br>RPM ± 100          | 8100                                             |                    |                     |                                                 |                     |                      |

## Driven Pulley

|                                               | SEA LEVEL<br>0 M (0 FT)   | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
|-----------------------------------------------|---------------------------|--------------------|---------------------|---------------------|---------------------|----------------------|
| Spring                                        | White 2 (P/N 417127243)   |                    |                     |                     |                     |                      |
| Spring tension<br>Kg $\pm$ 0.7 (lb $\pm$ 1.5) | 6.8 kgf (15 lbf)          |                    |                     |                     |                     |                      |
| Cam angle (degrees)                           | 41° - 45° (P/N 417127459) |                    |                     |                     |                     |                      |

# GRAND TOURING LE 600 HO E-TEC

## Drive Pulley

|                               | SEA LEVEL<br>0 M (0 FT)                         | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT)                               | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
|-------------------------------|-------------------------------------------------|--------------------|---------------------|---------------------------------------------------|---------------------|----------------------|
| Spring                        | Red/Green (P/N 414689200)                       |                    |                     | Blue/Yellow (P/N 414689500)                       |                     |                      |
| Ramp                          | 414 (P/N 417222546)                             |                    |                     |                                                   |                     |                      |
| Calibration Screw<br>Position | 3                                               | 4                  | 5                   | 3                                                 | 4                   | 5                    |
| Pin                           | Short solid<br>32 mm/16,75 g<br>(P/N 417004308) |                    |                     | Short no thread<br>32 mm/9,9 g<br>(P/N 417004309) |                     |                      |
| Engagement<br>RPM ± 100       | 3400                                            |                    |                     | 3600                                              |                     |                      |
| Maximum<br>RPM + 100          | 8100                                            |                    |                     |                                                   |                     |                      |

## Driven Pulley

|                                               | SEA LEVEL<br>0 M (0 FT) | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT)       | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
|-----------------------------------------------|-------------------------|--------------------|---------------------|---------------------------|---------------------|----------------------|
| Spring                                        | Green (P/N 417127137)   |                    |                     |                           |                     |                      |
| Spring tension<br>Kg $\pm$ 0.7 (lb $\pm$ 1.5) | N/A                     |                    |                     |                           |                     |                      |
| Cam angle (degrees)                           | 48° (P/N 417127083)     |                    |                     | 42° - 40° (P/N 417127106) |                     |                      |

**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 /**  
**RENEGADE X-RS 600 HO E-TEC**

### Drive Pulley

|                               | SEA LEVEL<br>0 M (0 FT)                         | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT)                                | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
|-------------------------------|-------------------------------------------------|--------------------|---------------------|----------------------------------------------------|---------------------|----------------------|
| Spring                        | Blue/Green (P/N 414817700)                      |                    |                     | Purple/Yellow (P/N 415015300)                      |                     |                      |
| Ramp                          | 412 (P/N 417222515)                             |                    |                     | 417 (P/N 417222552)                                |                     |                      |
| Calibration Screw<br>Position | 3                                               | 4                  | 5                   | 2                                                  | 3                   | 4                    |
| Pin                           | Short solid<br>32 mm/16,75 g<br>(P/N 417004308) |                    |                     | Short threaded<br>32 mm/10.88 g<br>(P/N 417222477) |                     |                      |
| Engagement<br>RPM ± 100       | 3400                                            |                    |                     | 3800                                               |                     |                      |
| Maximum<br>RPM ± 100          | 8100                                            |                    |                     |                                                    |                     |                      |

### Driven Pulley

|                                       | SEA LEVEL<br>0 M (0 FT) | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
|---------------------------------------|-------------------------|--------------------|---------------------|---------------------|---------------------|----------------------|
| Spring                                | Green (P/N 417127137)   |                    |                     |                     |                     |                      |
| Spring tension<br>Kg ± 0.7 (lb ± 1.5) | N/A                     |                    |                     |                     |                     |                      |
| Cam angle (degrees)                   | 48° (P/N 417127083)     |                    |                     | 40° (P/N 417126956) |                     |                      |

# TUNDRA Xtreme 600 HO E-TEC

## Drive Pulley

|                               | SEA LEVEL<br>0 M (0 FT)                                                                      | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT)                                | 3000 M<br>(10000 FT) |
|-------------------------------|----------------------------------------------------------------------------------------------|--------------------|---------------------|---------------------|----------------------------------------------------|----------------------|
| Spring                        | Red/Orange<br>(P/N 415015200)                                                                |                    |                     |                     | Blue/Green<br>(P/N 414817700)                      |                      |
| Ramp                          | 417 (P/N 417222552)                                                                          |                    |                     |                     |                                                    |                      |
| Calibration Screw<br>Position | 3                                                                                            | 4                  | 5                   | 3                   | 4                                                  | 5                    |
| Pin                           | Short threaded<br>32 mm/10,88 g<br>(P/N 417222477)<br>1 x set screw/16 mm<br>(P/N 206261699) |                    |                     |                     | Short threaded<br>32 mm/10,88 g<br>(P/N 417222477) |                      |
| Engagement<br>RPM ± 100       | 2800                                                                                         |                    |                     |                     | 3800                                               |                      |
| Maximum<br>RPM ± 100          | 8100                                                                                         |                    |                     |                     |                                                    |                      |

## Driven Pulley

|                                               | SEA LEVEL<br>0 M (0 FT)   | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT)       | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
|-----------------------------------------------|---------------------------|--------------------|---------------------|---------------------------|---------------------|----------------------|
| Spring                                        | Black (P/N 417127039)     |                    |                     |                           |                     |                      |
| Spring tension<br>Kg $\pm$ 0.7 (lb $\pm$ 1.5) | N/A                       |                    |                     |                           |                     |                      |
| Cam angle (degrees)                           | 44° - 42° (P/N 417126973) |                    |                     | 41° - 45° (P/N 417127105) |                     |                      |

## Vehicle Calibration

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

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

## Drive Pulley

|                               | SEA LEVEL<br>0 M (0 FT)                         | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT)                                                                                        | 1800 M<br>(6000 FT)                             | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
|-------------------------------|-------------------------------------------------|--------------------|------------------------------------------------------------------------------------------------------------|-------------------------------------------------|---------------------|----------------------|
| Spring                        | Blue/Green<br>(P/N 414817700)                   |                    | Purple/Green (P/N 415015400)                                                                               |                                                 |                     |                      |
| Ramp                          | 412 (P/N 417222515)                             |                    | 440 (P/N 417223096)                                                                                        |                                                 |                     |                      |
| Calibration Screw<br>Position | 3                                               | 4                  | 3                                                                                                          | 4                                               | 5                   | 6                    |
| Pin                           | Short solid<br>32 mm/16,75 g<br>(P/N 417004308) |                    | Short<br>threaded<br>32 mm/10,88<br>g (P/N 417<br>222477)<br>1 x set<br>screw/16<br>mm (P/N 206<br>261699) | Short threaded<br>32 mm/10,88 g (P/N 417222477) |                     |                      |
| Engagement<br>RPM ± 100       | 3400                                            |                    | 4000                                                                                                       |                                                 |                     |                      |
| Maximum<br>RPM + 100          | 8100                                            |                    |                                                                                                            |                                                 |                     |                      |

## Driven Pulley

|                                               | SEA LEVEL<br>0 M (0 FT)   | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
|-----------------------------------------------|---------------------------|--------------------|---------------------|---------------------|---------------------|----------------------|
| Spring                                        | Black (P/N 417127039)     |                    |                     |                     |                     |                      |
| Spring tension<br>Kg $\pm$ 0.7 (lb $\pm$ 1.5) | N/A                       |                    |                     |                     |                     |                      |
| Cam angle (degrees)                           | 41° - 45° (P/N 417127105) |                    |                     |                     |                     |                      |

## Vehicle Calibration

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

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

## Drive Pulley

|                               | SEA LEVEL<br>0 M (0 FT)                         | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT)                                | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
|-------------------------------|-------------------------------------------------|--------------------|----------------------------------------------------|---------------------|---------------------|----------------------|
| Spring                        | Blue/Green<br>(P/N 414817700)                   |                    | Purple/Green (P/N 415015400)                       |                     |                     |                      |
| Ramp                          | 412 (P/N 417222515)                             |                    | 440 (P/N 417223096)                                |                     |                     |                      |
| Calibration Screw<br>Position | 3                                               | 4                  | 3                                                  | 4                   | 5                   | 6                    |
| Pin                           | Short solid<br>32 mm/16,75 g<br>(P/N 417004308) |                    | Short threaded<br>32 mm/10,88 g<br>(P/N 417222477) |                     |                     |                      |
| Engagement<br>RPM ± 100       | 3400                                            |                    | 4000                                               |                     |                     |                      |
| Maximum<br>RPM + 100          | 8100                                            |                    |                                                    |                     |                     |                      |

## Driven Pulley

|                                               | SEA LEVEL<br>0 M (0 FT)   | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
|-----------------------------------------------|---------------------------|--------------------|---------------------|---------------------|---------------------|----------------------|
| Spring                                        | Black (P/N 417127039)     |                    |                     |                     |                     |                      |
| Spring tension<br>Kg $\pm$ 0.7 (lb $\pm$ 1.5) | N/A                       |                    |                     |                     |                     |                      |
| Cam angle (degrees)                           | 41° - 45° (P/N 417127105) |                    |                     |                     |                     |                      |

## Vehicle Calibration

|               | SEA LEVEL<br>0 M (0 FT) | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(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<br>0 M (0 FT)                          | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT)                                                                   | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
|-------------------------------|--------------------------------------------------|--------------------|---------------------------------------------------------------------------------------|---------------------|---------------------|----------------------|
| Spring                        | Purple/Blue<br>(P/N 415034900)                   |                    | Purple/Pink (P/N 414949500)                                                           |                     |                     |                      |
| Ramp                          | 413 (P/N 417222508)                              |                    | 441 (P/N 417223098)                                                                   |                     |                     |                      |
| Calibration Screw<br>Position | 3                                                | 4                  | 3                                                                                     | 4                   | 5                   | 6                    |
| Pin                           | Long solid<br>35.75 mm/18,8 g<br>(P/N 417222594) |                    | Long threaded<br>35,75 mm/12,4 g (P/N 417222595)<br>1 set screw/12 mm (P/N 206261299) |                     |                     |                      |
| Engagement<br>RPM ± 100       | 3800                                             |                    | 3900                                                                                  | 4000                |                     | 4100                 |
| Maximum<br>RPM ± 100          | 7900                                             |                    |                                                                                       |                     |                     |                      |

## **Driven Pulley**

|                                       | SEA LEVEL<br>0 M (0 FT) | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
|---------------------------------------|-------------------------|--------------------|---------------------|---------------------|---------------------|----------------------|
| Spring                                | Blue (P/N 417127118)    |                    |                     |                     |                     |                      |
| Spring tension<br>Kg ± 0.7 (lb ± 1.5) | N/A                     |                    |                     |                     |                     |                      |
| Cam angle (degrees)                   | 40° (P/N 417126956)     |                    |                     |                     |                     |                      |

## **Vehicle Calibration**

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

# FREERIDE 146" AND 154" 800R E-TEC SEA-LEVEL / SUMMIT BURTON 154" 800R E-TEC SEA-LEVEL (EUROPE)

## Drive Pulley

|                               | SEA LEVEL<br>0 M (0 FT)                          | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT)                                                                         | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT)                                 | 3000 M<br>(10000 FT) |
|-------------------------------|--------------------------------------------------|--------------------|---------------------------------------------------------------------------------------------|---------------------|-----------------------------------------------------|----------------------|
| Spring                        | Blue/Yellow<br>(P/N 414689500)                   |                    | Purple/Pink (P/N 414949500)                                                                 |                     |                                                     |                      |
| Ramp                          | 413 (P/N 417222508)                              |                    | 441 (P/N 417223098)                                                                         |                     |                                                     |                      |
| Calibration Screw<br>Position | 2                                                | 3                  | 2                                                                                           | 3                   | 4                                                   | 5                    |
| Pin                           | Long solid<br>35.75 mm/18,8 g<br>(P/N 417222594) |                    | Long threaded<br>35,75 mm/12,4 g<br>(P/N 417222595)<br>1 set screw/16 mm<br>(P/N 206261699) |                     | Long threaded<br>35,75 mm/12,4 g<br>(P/N 417222595) |                      |
| Engagement<br>RPM ± 100       | 3800                                             |                    |                                                                                             |                     |                                                     |                      |
| Maximum<br>RPM ± 100          | 7900                                             |                    |                                                                                             |                     |                                                     |                      |

## Driven Pulley

|                                               | SEA LEVEL<br>0 M (0 FT) | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
|-----------------------------------------------|-------------------------|--------------------|---------------------|---------------------|---------------------|----------------------|
| Spring                                        | Black (P/N 417127039)   |                    |                     |                     |                     |                      |
| Spring tension<br>Kg $\pm$ 0.7 (lb $\pm$ 1.5) | N/A                     |                    |                     |                     |                     |                      |
| Cam angle (degrees)                           | 40° (P/N 417126956)     |                    |                     |                     |                     |                      |

## Vehicle Calibration

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

## Chaincase Gears

| 146" MODELS (FREERIDE EUROPE) |                         |                    |                     |                     |                     |                      |
|-------------------------------|-------------------------|--------------------|---------------------|---------------------|---------------------|----------------------|
|                               | Sea level<br>0 M (0 FT) | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
| Upper gear                    | 21 (P/N 504096200)      |                    |                     |                     |                     |                      |
| Lower gear                    | 49 (P/N 504152581)      |                    |                     |                     |                     |                      |
| Chain                         | 106 (P/N 504152630)     |                    |                     |                     |                     |                      |

| 146" MODELS (FREERIDE CAN / USA) |                         |                    |                     |                     |                     |                      |
|----------------------------------|-------------------------|--------------------|---------------------|---------------------|---------------------|----------------------|
|                                  | Sea level<br>0 M (0 FT) | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
| Upper gear                       | 23 (P/N 504091000)      |                    |                     | 21 (P/N 504096200)  |                     |                      |
| Lower gear                       | 51 (P/N 504152971)      |                    |                     | 49 (P/N 504152581)  |                     |                      |
| Chain                            | 108 (P/N 504152631)     |                    |                     | 106 (P/N 504152630) |                     |                      |

| 154" MODELS (FREERIDE) |                         |                    |                     |                     |                     |                      |
|------------------------|-------------------------|--------------------|---------------------|---------------------|---------------------|----------------------|
|                        | Sea level<br>0 M (0 FT) | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
| Upper gear             | 21 (P/N 504096200)      |                    |                     | 19 (P/N 504152030)  |                     |                      |
| Lower gear             | 49 (P/N 504152581)      |                    |                     |                     |                     |                      |
| Chain                  | 106 (P/N 504152630)     |                    |                     | 104 (P/N 504152629) |                     |                      |

| 154" MODELS (SUMMIT BURTON) |                         |                    |                     |                     |                     |                      |
|-----------------------------|-------------------------|--------------------|---------------------|---------------------|---------------------|----------------------|
|                             | Sea level<br>0 M (0 FT) | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
| Upper gear                  | 19 (P/N 504152030)      |                    |                     |                     |                     |                      |
| Lower gear                  | 49 (P/N 504152581)      |                    |                     |                     |                     |                      |
| Chain                       | 104 (P/N 504152629)     |                    |                     |                     |                     |                      |

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

## Drive Pulley

|                               | SEA LEVEL<br>0 M (0 FT)                          | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT)                                                                                          | 1800 M<br>(6000 FT)                              | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
|-------------------------------|--------------------------------------------------|--------------------|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------|---------------------|----------------------|
| Spring                        | Blue/Yellow<br>(P/N 414689500)                   |                    | Purple/Pink (P/N 414949500)                                                                                  |                                                  |                     |                      |
| Ramp                          | 413 (P/N 417222508)                              |                    | 441 (P/N 417223098)                                                                                          |                                                  |                     |                      |
| Calibration Screw<br>Position | 3                                                | 4                  | 3                                                                                                            | 4                                                | 5                   | 6                    |
| Pin                           | Long solid<br>35.75 mm/18,8 g<br>(P/N 417222594) |                    | Long<br>threaded<br>35,75<br>mm/12,4 g<br>(P/N 417<br>222595)<br>1 set<br>screw/16<br>mm (P/N 206<br>261699) | Long threaded<br>35,75 mm/12,4 g (P/N 417222595) |                     |                      |
| Engagement<br>RPM ± 100       | 3000                                             |                    | 3800                                                                                                         |                                                  |                     |                      |
| Maximum<br>RPM + 100          | 7900                                             |                    |                                                                                                              |                                                  |                     |                      |

## Driven Pulley

|                                               | SEA LEVEL<br>0 M (0 FT) | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
|-----------------------------------------------|-------------------------|--------------------|---------------------|---------------------|---------------------|----------------------|
| Spring                                        | Blue (P/N 417127118)    |                    |                     |                     |                     |                      |
| Spring tension<br>Kg $\pm$ 0.7 (lb $\pm$ 1.5) | N/A                     |                    |                     |                     |                     |                      |
| Cam angle (degrees)                           | 40° (P/N 417126956)     |                    |                     |                     |                     |                      |

## Vehicle Calibration

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

## Chaincase Gears

| 146" MODELS (FREERIDE) |                         |                    |                     |                     |                     |                      |
|------------------------|-------------------------|--------------------|---------------------|---------------------|---------------------|----------------------|
|                        | SEA LEVEL<br>0 M (0 FT) | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
| Upper gear             | 23 (P/N 504091000)      |                    |                     | 21 (P/N 504096200)  |                     |                      |
| Lower gear             | 51 (P/N 504152971)      |                    |                     | 49 (P/N 504152581)  |                     |                      |
| Chain                  | 108 (P/N 504152631)     |                    |                     | 106 (P/N 504152630) |                     |                      |

| 146" MODELS (SUMMIT) |                         |                    |                     |                     |                     |                      |
|----------------------|-------------------------|--------------------|---------------------|---------------------|---------------------|----------------------|
|                      | SEA LEVEL<br>0 M (0 FT) | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
| Upper gear           | 21 (P/N 504096200)      |                    |                     |                     |                     |                      |
| Lower gear           | 49 (P/N 504152581)      |                    |                     |                     |                     |                      |
| Chain                | 106 (P/N 504152630)     |                    |                     |                     |                     |                      |

| 154" MODELS |                         |                    |                     |                     |                     |              |
|-------------|-------------------------|--------------------|---------------------|---------------------|---------------------|--------------|
|             | SEA LEVEL<br>0 M (0 FT) | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>FT |
| Upper gear  | 19 (P/N 504152030)      |                    |                     |                     |                     |              |
| Lower gear  | 49 (P/N 504152581)      |                    |                     |                     |                     |              |
| Chain       | 104 (P/N 504152629)     |                    |                     |                     |                     |              |

### Sea Level Calibration Kit

| MODEL | PART NUMBER |
|-------|-------------|
| All   | 860201418   |

### Summit 800R E-TEC Theoretical Speed

| MODEL                   | UPPER GEAR | LOWER GEAR | CHAIN | THEORETICAL SPEED<br>(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 800R E-TEC Sea-Level Gear Ratio Recommendation

| 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 |

\* Factory Installed

\*\* Included in Sea-Level calibration kit

\*\*\* Optional calibration

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

## Drive Pulley

|                               | SEA LEVEL<br>0 M (0 FT)                          | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT)                                                                                          | 1800 M<br>(6000 FT)                              | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
|-------------------------------|--------------------------------------------------|--------------------|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------|---------------------|----------------------|
| Spring                        | Blue/Yellow<br>(P/N 414689500)                   |                    | Purple/Pink (P/N 414949500)                                                                                  |                                                  |                     |                      |
| Ramp                          | 413 (P/N 417222508)                              |                    | 438 (P/N 417223049)                                                                                          |                                                  |                     |                      |
| Calibration Screw<br>Position | 3                                                | 4                  | 3                                                                                                            | 4                                                | 5                   | 6                    |
| Pin                           | Long solid<br>35.75 mm/18,8 g<br>(P/N 417222594) |                    | Long<br>threaded<br>35,75<br>mm/12,4 g<br>(P/N 417<br>222595)<br>1 set<br>screw/16<br>mm (P/N 206<br>261699) | Long threaded<br>35,75 mm/12,4 g (P/N 417222595) |                     |                      |
| Engagement<br>RPM ± 100       | 3000                                             |                    | 3800                                                                                                         |                                                  |                     |                      |
| Maximum<br>RPM ± 100          | 7900                                             |                    |                                                                                                              |                                                  |                     |                      |

## Driven Pulley

|                                       | SEA LEVEL<br>0 M (0 FT)  | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT)  | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
|---------------------------------------|--------------------------|--------------------|----------------------|---------------------|---------------------|----------------------|
| Spring                                | Black<br>(P/N 417127039) |                    | Blue (P/N 417127118) |                     |                     |                      |
| Spring tension<br>Kg ± 0.7 (lb ± 1.5) | N/A                      |                    |                      |                     |                     |                      |
| Cam angle (degrees)                   | 40° (P/N 417127386)      |                    |                      |                     |                     |                      |

## Vehicle Calibration

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

## Chaincase Gears

| 163" 3" PROFILE TRACK MODELS |                         |                    |                     |                     |                     |                      |
|------------------------------|-------------------------|--------------------|---------------------|---------------------|---------------------|----------------------|
|                              | SEA LEVEL<br>0 M (0 FT) | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
| Upper gear                   | 23 (P/N 504091000)      |                    |                     | 21 (P/N 504096200)  |                     |                      |
| Lower gear                   | 51 (P/N 504153227)      |                    |                     |                     |                     |                      |
| Chain                        | 112 (P/N 504153268)     |                    |                     |                     |                     |                      |

| 174" 3" PROFILE TRACK MODELS |                         |                    |                     |                     |                     |                      |
|------------------------------|-------------------------|--------------------|---------------------|---------------------|---------------------|----------------------|
|                              | SEA LEVEL<br>0 M (0 FT) | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
| Upper gear                   | 21 (P/N 504096200)      |                    |                     | 19 (P/N 504152030)  |                     |                      |
| Lower gear                   | 49 (P/N 504153267)      |                    |                     |                     |                     |                      |
| Chain                        | 110 (P/N 504153266)     |                    |                     |                     |                     |                      |

### Sea Level Calibration Kit

| MODEL | PART NUMBER |
|-------|-------------|
| All   | 860201418   |

### Summit 800R E-TEC Theoretical Speed

NOTE: Summit with 3" profile track are equipped with 7 tooth sprocket instead of 8 tooth sprocket like 2,5" profile track Summit. Theoretical speed for Summit with 3" profile track package will differ from a Summit with 2,5" profile track, with same gear ratio.

| MODEL                            | UPPER GEAR | LOWER GEAR | CHAIN | THEORETICAL SPEED<br>(KM/H / MPH) |
|----------------------------------|------------|------------|-------|-----------------------------------|
| Summit 163 (3" profile track)*   | 21         | 51         | 112   | 123 km/h (76 MPH)                 |
| Summit 163 (3" profile track)*** | 23         | 51         | 112   | 134 km/h (83 MPH)                 |
| Summit 174 (3" profile track)*   | 19         | 49         | 110   | 116 km/h (72 MPH)                 |
| Summit 174 (3" profile track)*** | 21         | 49         | 110   | 127 km/h (79 MPH)                 |

### Summit 800R E-TEC Sea-Level Gear Ratio Recommendation

NOTE: Summit with 3" profile track are equipped with 7 tooth sprocket instead of 8 tooth sprocket like 2,5" profile track Summit. Gear ratio recommendation for Summit with 3" profile track package may differ from a Summit with 2,5" profile track, with same gear ratio.

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

\* Factory Installed

\*\* Included in Sea-Level calibration kit

\*\*\* Optional calibration

# MX Z BLIZZARD 800R E-TEC / MX Z X-RS 800R E-TEC /

## Drive Pulley

|                               | SEA LEVEL<br>0 M (0 FT)                          | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT)                                                                     | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
|-------------------------------|--------------------------------------------------|--------------------|-----------------------------------------------------------------------------------------|---------------------|---------------------|----------------------|
| Spring                        | Blue/Green<br>(P/N 414817700)                    |                    | Purple/Yellow (P/N 415015300)                                                           |                     |                     |                      |
| Ramp                          | 414 (P/N 417222546)                              |                    |                                                                                         |                     |                     |                      |
| Calibration Screw<br>Position | 3                                                | 4                  | 2                                                                                       | 3                   | 4                   | 5                    |
| Pin                           | Long solid<br>35.75 mm/18.8 g<br>(P/N 417222594) |                    | Long threaded 35.75 mm/12.4 g<br>(P/N 417222595)<br>1 x set screw 12 mm (P/N 206261299) |                     |                     |                      |
| Engagement<br>RPM ± 100       | 3800                                             |                    |                                                                                         |                     |                     |                      |
| Maximum<br>RPM ± 100          | 7900                                             |                    |                                                                                         |                     |                     |                      |

## Driven Pulley

|                                       |                              |                    |                        |                     |                     |                      |
|---------------------------------------|------------------------------|--------------------|------------------------|---------------------|---------------------|----------------------|
|                                       | SEA LEVEL<br>0 M (0 FT)      | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT)    | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
| Spring                                | Green<br>(P/N 417127137)     |                    | Purple (P/N 417127062) |                     |                     |                      |
| Spring tension<br>Kg ± 0.7 (lb ± 1.5) | N/A                          |                    |                        |                     |                     |                      |
| Cam angle (degrees)                   | 47° - 44°<br>(P/N 417127109) |                    | 44° (P/N 417127011)    |                     |                     |                      |

# RENEGADE ENDURO 800R E-TEC / RENEGADE X-RS 800R E-TEC (CAN/US)

## Drive Pulley

|                               | SEA LEVEL<br>0 M (0 FT)                          | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT)                                                                   | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
|-------------------------------|--------------------------------------------------|--------------------|---------------------------------------------------------------------------------------|---------------------|---------------------|----------------------|
| Spring                        | Blue/Green<br>(P/N 414817700)                    |                    | Blue/Blue<br>(P/N 414689400)                                                          |                     |                     |                      |
| Ramp                          | 414<br>(P/N 417222546)                           |                    | 413 (P/N 417222508)                                                                   |                     |                     |                      |
| Calibration Screw<br>Position | 3                                                | 4                  | 2                                                                                     | 3                   | 4                   | 5                    |
| Pin                           | Long solid<br>35.75 mm/18.8 g<br>(P/N 417222594) |                    | Long threaded 35.75 mm/12.4 g<br>(P/N 417222595)<br>1 set screw/12 mm (P/N 206261299) |                     |                     |                      |
| Engagement<br>RPM ± 100       | 3800                                             |                    | 3900                                                                                  | 4000                |                     | 4100                 |
| Maximum<br>RPM ± 100          | 7900                                             |                    |                                                                                       |                     |                     |                      |

## Driven Pulley

|                                               | SEA LEVEL<br>0 M (0 FT)   | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
|-----------------------------------------------|---------------------------|--------------------|---------------------|---------------------|---------------------|----------------------|
| Spring                                        | Green (P/N 417127137)     |                    |                     |                     |                     |                      |
| Spring tension<br>Kg $\pm$ 0.7 (lb $\pm$ 1.5) | N/A                       |                    |                     |                     |                     |                      |
| Cam angle (degrees)                           | 44° - 42° (P/N 417126973) |                    |                     |                     |                     |                      |

# **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)**

## **Drive Pulley**

|                               | SEA LEVEL<br>0 M (0 FT)                          | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT)                                                                   | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
|-------------------------------|--------------------------------------------------|--------------------|---------------------------------------------------------------------------------------|---------------------|---------------------|----------------------|
| Spring                        | Purple/Blue<br>(P/N 415034900)                   |                    | Purple/Pink (P/N 414949500)                                                           |                     |                     |                      |
| Ramp                          | 413<br>(P/N 417222508)                           |                    | 438 (P/N 417223049)                                                                   |                     |                     |                      |
| Calibration Screw<br>Position | 3                                                | 4                  | 3                                                                                     | 4                   | 5                   | 6                    |
| Pin                           | Long solid<br>35.75 mm/18.8 g<br>(P/N 417222594) |                    | Long threaded 35.75 mm/12.4 g<br>(P/N 417222595)<br>1 set screw/12 mm (P/N 206261299) |                     |                     |                      |
| Engagement<br>RPM ± 100       | 3800                                             |                    | 3900                                                                                  | 4000                |                     | 4100                 |
| Maximum<br>RPM ± 100          | 7900                                             |                    |                                                                                       |                     |                     |                      |

## **Driven Pulley**

|                                               | SEA LEVEL<br>0 M (0 FT)   | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
|-----------------------------------------------|---------------------------|--------------------|---------------------|---------------------|---------------------|----------------------|
| Spring                                        | Green (P/N 417127137)     |                    |                     |                     |                     |                      |
| Spring tension<br>Kg $\pm$ 0.7 (lb $\pm$ 1.5) | N/A                       |                    |                     |                     |                     |                      |
| Cam angle (degrees)                           | 44° - 42° (P/N 417126973) |                    |                     |                     |                     |                      |

# EXPEDITION Xtreme 800R E-TEC (CAN / USA)

## Drive Pulley

|                               | SEA LEVEL<br>0 M (0 FT)                          | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT)                                                                   | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
|-------------------------------|--------------------------------------------------|--------------------|---------------------------------------------------------------------------------------|---------------------|---------------------|----------------------|
| Spring                        | Violet/Blue<br>(P/N 415034900)                   |                    | Blue/Pink (P/N 414916300)                                                             |                     |                     |                      |
| Ramp                          | 450 (P/N 417224236)                              |                    |                                                                                       |                     |                     |                      |
| Calibration Screw<br>Position | 2                                                | 3                  | 2                                                                                     | 3                   | 4                   | 5                    |
| Pin                           | Long solid<br>35.75 mm/18.8 g<br>(P/N 417222594) |                    | Long threaded 35.75 mm/12.4 g<br>(P/N 417222595)<br>1 set screw/12 mm (P/N 206261299) |                     |                     |                      |
| Engagement<br>RPM ± 100       | 3800                                             |                    | 3900                                                                                  | 4000                |                     | 4100                 |
| Maximum<br>RPM ± 100          | 7900                                             |                    |                                                                                       |                     |                     |                      |

## Driven Pulley

|                                               | SEA LEVEL<br>0 M (0 FT) | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
|-----------------------------------------------|-------------------------|--------------------|---------------------|---------------------|---------------------|----------------------|
| Spring                                        | White (P/N 417127039)   |                    |                     |                     |                     |                      |
| Spring tension<br>Kg $\pm$ 0.7 (lb $\pm$ 1.5) | N/A                     |                    |                     |                     |                     |                      |
| Cam angle (degrees)                           | 40° (P/N 417127411)     |                    |                     |                     |                     |                      |

# EXPEDITION Xtreme 800R E-TEC (EUROPE)

## Drive Pulley

|                               | SEA LEVEL<br>0 M (0 FT)                          | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT)                                                                   | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
|-------------------------------|--------------------------------------------------|--------------------|---------------------------------------------------------------------------------------|---------------------|---------------------|----------------------|
| Spring                        | Yellow/Green<br>(P/N 414742100)                  |                    | Blue/Pink (P/N 414916300)                                                             |                     |                     |                      |
| Ramp                          | 413 (P/N 417222508)                              |                    |                                                                                       |                     |                     |                      |
| Calibration Screw<br>Position | 2                                                | 3                  | 2                                                                                     | 3                   | 4                   | 5                    |
| Pin                           | Long solid<br>35.75 mm/18.8 g<br>(P/N 417222594) |                    | Long threaded 35.75 mm/12.4 g<br>(P/N 417222595)<br>1 set screw/12 mm (P/N 206261299) |                     |                     |                      |
| Engagement<br>RPM ± 100       | 3800                                             |                    | 3900                                                                                  | 4000                |                     | 4100                 |
| Maximum<br>RPM ± 100          | 7900                                             |                    |                                                                                       |                     |                     |                      |

## Driven Pulley

|                                               | SEA LEVEL<br>0 M (0 FT) | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
|-----------------------------------------------|-------------------------|--------------------|---------------------|---------------------|---------------------|----------------------|
| Spring                                        | Black (P/N 417127039)   |                    |                     |                     |                     |                      |
| Spring tension<br>Kg $\pm$ 0.7 (lb $\pm$ 1.5) | N/A                     |                    |                     |                     |                     |                      |
| Cam angle (degrees)                           | 40° (P/N 417127411)     |                    |                     |                     |                     |                      |

## ► **SUMMIT X 154" AND 165" 850 E-TEC SEA-LEVEL / SUMMIT SP 154" AND 165" 850 E-TEC SEA-LEVEL** ◀

### ► **Drive Pulley** ◀

|                               | SEA LEVEL<br>0 M (0 FT)         | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT)             | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT)             | 3000 M<br>(10000 FT) |
|-------------------------------|---------------------------------|--------------------|---------------------------------|---------------------|---------------------------------|----------------------|
| Spring                        | Blue/Yellow<br>(P/N 417224015)  |                    | Purple/Purple (P/N 417224165)   |                     |                                 |                      |
| Ramp                          | ▶966 (P/N 417224147)◀           |                    | 967 (P/N 417224225)             |                     |                                 |                      |
| Calibration Screw<br>Position | 3                               | 4                  | 3                               | 4                   | 4                               | 5                    |
| Pivot                         | 33 mm/15,2 g<br>(P/N 417224116) |                    | 38 mm/16,7 g<br>(P/N 417224117) |                     | 26 mm/13,1 g<br>(P/N 417224115) |                      |
| Engagement<br>RPM ± 100       | 3300                            |                    | 3800                            |                     |                                 |                      |
| Maximum<br>RPM ± 100          | 7900                            |                    |                                 |                     |                                 |                      |

### **Driven Pulley**

|                                       |                         |                      |                     |                     |                     |                      |
|---------------------------------------|-------------------------|----------------------|---------------------|---------------------|---------------------|----------------------|
|                                       | SEA LEVEL<br>0 M (0 FT) | 600 M<br>(2000 FT)   | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
| Spring                                | Black (P/N 417127039)   | Blue (P/N 417127118) |                     |                     |                     |                      |
| Spring tension<br>Kg ± 0.7 (lb ± 1.5) | N/A                     |                      |                     |                     |                     |                      |
| Cam angle (degrees)                   | 40° (P/N 417127532)     |                      |                     |                     |                     |                      |

### **Vehicle Calibration**

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

### **Chaincase Gears**

| 154" MODELS |                         |                    |                     |                     |                     |              |
|-------------|-------------------------|--------------------|---------------------|---------------------|---------------------|--------------|
|             | Sea level<br>0 M (0 FT) | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>FT |
| Upper gear  | 21 (P/N 504096200)      |                    |                     |                     |                     |              |
| Lower gear  | 53 (P/N 504153778)      |                    |                     |                     |                     |              |
| Chain       | 116 (P/N 504153397)     |                    |                     |                     |                     |              |

| 165" MODELS |                         |                    |                     |                     |                     |              |
|-------------|-------------------------|--------------------|---------------------|---------------------|---------------------|--------------|
|             | Sea level<br>0 M (0 FT) | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>FT |
| Upper gear  | 21 (P/N 504096200)      |                    |                     |                     |                     |              |
| Lower gear  | 51 (P/N 504152971)      |                    |                     |                     |                     |              |
| Chain       | 116 (P/N 504153397)     |                    |                     |                     |                     |              |

## ► **SUMMIT X 154" AND 165"** **850 E-TEC HIGH ALTITUDE /** **SUMMIT SP 154" AND 165" 850 E-TEC** **HIGH ALTITUDE◀**

### ► **Drive Pulley◀**

|                               | SEA LEVEL<br>0 M (0 FT)         | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT)             | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT)            | 3000 M<br>(10000 FT) |
|-------------------------------|---------------------------------|--------------------|---------------------------------|---------------------|--------------------------------|----------------------|
| Spring                        | Blue/Yellow<br>(P/N 417224015)  |                    | ▶Blue/Purple (P/N 417224168)◀   |                     |                                |                      |
| Ramp                          | 951 (P/N 417224038)             |                    | 967 (P/N 417224225)             |                     |                                |                      |
| Calibration Screw<br>Position | 3                               | 4                  | 3                               | 4                   | 4                              | 5                    |
| Pivot                         | 33 mm/15,2 g<br>(P/N 417224116) |                    | 38 mm/16,7 g<br>(P/N 417224117) |                     | 26mm/13,1 g<br>(P/N 417224115) |                      |
| Engagement<br>RPM ± 100       | 3300                            |                    | 3800                            |                     |                                |                      |
| Maximum<br>RPM ± 100          | 7900                            |                    |                                 |                     |                                |                      |

### **Driven Pulley**

|                                       |                          |                    |                      |                     |                     |                      |
|---------------------------------------|--------------------------|--------------------|----------------------|---------------------|---------------------|----------------------|
|                                       | SEA LEVEL<br>0 M (0 FT)  | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT)  | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
| Spring                                | Black<br>(P/N 417127039) |                    | Blue (P/N 417127118) |                     |                     |                      |
| Spring tension<br>Kg ± 0.7 (lb ± 1.5) | N/A                      |                    |                      |                     |                     |                      |
| Cam angle (degrees)                   | 40° (P/N 417127532)      |                    |                      |                     |                     |                      |

### **Vehicle Calibration**

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

### **Chaincase Gears**

| 154" MODELS |                         |                    |                     |                     |                     |                      |
|-------------|-------------------------|--------------------|---------------------|---------------------|---------------------|----------------------|
|             | SEA LEVEL<br>0 M (0 FT) | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
| Upper gear  | 21 (P/N 504096200)      |                    |                     |                     |                     |                      |
| Lower gear  | 53 (P/N 504153778)      |                    |                     |                     |                     |                      |
| Chain       | 116 (P/N 504153397)     |                    |                     |                     |                     |                      |

| 165" MODELS |                         |                    |                     |                     |                     |                      |
|-------------|-------------------------|--------------------|---------------------|---------------------|---------------------|----------------------|
|             | SEA LEVEL<br>0 M (0 FT) | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
| Upper gear  | 21 (P/N 504096200)      |                    |                     |                     |                     |                      |
| Lower gear  | 51 (P/N 504152971)      |                    |                     |                     |                     |                      |
| Chain       | 116 (P/N 504153397)     |                    |                     |                     |                     |                      |

### ► [Sea Level Calibration Kit](#) ◀

| MODEL         | PART NUMBER                   |
|---------------|-------------------------------|
| 154" and 165" | ► <a href="#">860201977</a> ◀ |

### Summit 850 E-TEC Gear Ratio and Application

**NOTE:** Summit are built for deep snow conditions and should never be used in marginal or hard pack snow conditions. Going to higher ratios could lead to reduced belt life and track delamination.

| TRACK LENGTH | GEAR RATIO | APPLICATION                            | PRO'S                                                         | CON'S                                       |
|--------------|------------|----------------------------------------|---------------------------------------------------------------|---------------------------------------------|
| 154"         | 21/53      | Deep snow / Best all around gear ratio | Better belt life and track durability in all around condition | 128 km/h max speed. Rev limiter can turn on |
| 163"         | 21/51      | Deep snow / Best all around gear ratio | Better belt life and track durability in all around condition | 123 km/h max speed. Rev limiter can turn on |

# MX Z TNT 850 E-TEC / MX Z X 850 E-TEC

## Drive Pulley

|                               | SEA LEVEL<br>0 M (0 FT)         | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT)         | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
|-------------------------------|---------------------------------|--------------------|-----------------------------|---------------------|---------------------|----------------------|
| Spring                        | Blue/Purple<br>(P/N 417224168)  |                    | Purple/Blue (P/N 417224165) |                     |                     |                      |
| Ramp                          | 968 (P/N 417224226)             |                    | 967 (P/N 417224225)         |                     |                     |                      |
| Calibration Screw<br>Position | 3                               | 4                  | 2                           | 3                   | 4                   | 5                    |
| Pivot                         | 33 mm/15,2 g<br>(P/N 417224116) |                    |                             |                     |                     |                      |
| Engagement<br>RPM ± 100       | 3600                            |                    | 4000                        |                     |                     |                      |
| Maximum<br>RPM ± 100          | 7900                            |                    |                             |                     |                     |                      |

## Driven Pulley

|                                               | SEA LEVEL<br>0 M (0 FT)      | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
|-----------------------------------------------|------------------------------|--------------------|---------------------|---------------------|---------------------|----------------------|
| Spring                                        | Green<br>(P/N 417127137)     |                    |                     |                     |                     |                      |
| Spring tension<br>Kg $\pm$ 0.7 (lb $\pm$ 1.5) | N/A                          |                    |                     |                     |                     |                      |
| Cam angle (degrees)                           | 45° - 42°<br>(P/N 417127534) |                    |                     |                     |                     |                      |

# RENEGADE ADRENALINE 850 E-TEC / RENEGADE X 850 E-TEC

## Drive Pulley

|                               | SEA LEVEL<br>0 M (0 FT)         | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT)            | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
|-------------------------------|---------------------------------|--------------------|--------------------------------|---------------------|---------------------|----------------------|
| Spring                        | Blue/Blue<br>(P/N 417224013)    |                    | Purple/Blue<br>(P/N 417224165) |                     |                     |                      |
| Ramp                          | 968<br>(P/N 417224226)          |                    | 967 (P/N 417224225)            |                     |                     |                      |
| Calibration Screw<br>Position | 3                               | 4                  | 2                              | 3                   | 4                   | 5                    |
| Pivot                         | 33 mm/18.8 g<br>(P/N 417224116) |                    |                                |                     |                     |                      |
| Engagement<br>RPM ± 100       | 3600                            |                    | 4000                           |                     |                     |                      |
| Maximum<br>RPM ± 100          | 7900                            |                    |                                |                     |                     |                      |

## Driven Pulley

|                                               | SEA LEVEL<br>0 M (0 FT)   | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
|-----------------------------------------------|---------------------------|--------------------|---------------------|---------------------|---------------------|----------------------|
| Spring                                        | Green (P/N 417127137)     |                    |                     |                     |                     |                      |
| Spring tension<br>Kg $\pm$ 0.7 (lb $\pm$ 1.5) | N/A                       |                    |                     |                     |                     |                      |
| Cam angle (degrees)                           | 44° - 42° (P/N 417126973) |                    |                     |                     |                     |                      |

# TUNDRA SPORT 600 ACE / TUNDRA LT 600 ACE / EXPEDITION SPORT 600 ACE / RENEGADE SPORT 600 ACE

## Drive Pulley

|                         | SEA LEVEL<br>0 M (0 FT)          | 600 M<br>(2000 FT)             | 1200 M<br>(4000 FT)               | 1800 M<br>(6000 FT)          | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT)           |
|-------------------------|----------------------------------|--------------------------------|-----------------------------------|------------------------------|---------------------|--------------------------------|
| Spring                  | Red/White<br>(P/N 417<br>223747) | Red/Red<br>(P/N 417<br>223745) | Red/Yellow<br>(P/N 417<br>223748) | Red/White<br>(P/N 417223747) |                     | Red/Red<br>(P/N 417<br>223745) |
| Ramp                    | 716 (P/N 417223450)              |                                |                                   | 725 (P/N 417223601)          |                     |                                |
| Ramp quantity           | 6                                |                                |                                   |                              |                     |                                |
| Engagement<br>RPM ± 100 | 2200                             |                                |                                   |                              |                     |                                |
| Maximum<br>RPM ± 100    | 7250                             |                                |                                   |                              |                     |                                |

## Driven Pulley

|                                               | SEA LEVEL<br>0 M (0 FT) | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
|-----------------------------------------------|-------------------------|--------------------|---------------------|---------------------|---------------------|----------------------|
| Spring                                        | Pink 3 (P/N 417127344)  |                    |                     |                     |                     |                      |
| Spring tension<br>Kg $\pm$ 0.7 (lb $\pm$ 1.5) | 6.4 kgf (14.1 lbf)      |                    |                     |                     |                     |                      |
| Cam angle (degrees)                           | 41°-45° (P/N 417127235) |                    |                     |                     |                     |                      |

# GRAND TOURING SPORT 600 ACE / MX Z SPORT 600 ACE

## Drive Pulley

|                         | SEA LEVEL<br>0 M (0 FT)        | 600 M<br>(2000 FT)                | 1200 M<br>(4000 FT)               | 1800 M<br>(6000 FT)          | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT)           |
|-------------------------|--------------------------------|-----------------------------------|-----------------------------------|------------------------------|---------------------|--------------------------------|
| Spring                  | Red/Red<br>(P/N 417<br>223745) | Red/Yellow<br>(P/N 417<br>223748) | Red/Orange<br>(P/N 417<br>223749) | Red/White<br>(P/N 417223747) |                     | Red/Red<br>(P/N 417<br>223745) |
| Ramp                    | 715 (P/N 417223452)            |                                   |                                   | 725 (P/N 417223601)          |                     |                                |
| Ramp quantity           | 6                              |                                   |                                   |                              |                     |                                |
| Engagement<br>RPM ± 100 | 2200                           |                                   |                                   |                              |                     |                                |
| Maximum<br>RPM ± 100    | 7250                           |                                   |                                   |                              |                     |                                |

## Driven Pulley

|                                               | SEA LEVEL<br>0 M (0 FT) | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
|-----------------------------------------------|-------------------------|--------------------|---------------------|---------------------|---------------------|----------------------|
| Spring                                        | Pink 3 (P/N 417127344)  |                    |                     |                     |                     |                      |
| Spring tension<br>Kg $\pm$ 0.7 (lb $\pm$ 1.5) | 6.4 kgf (14.1 lbf)      |                    |                     |                     |                     |                      |
| Cam angle (degrees)                           | 41°-45° (P/N 417127235) |                    |                     |                     |                     |                      |

# SKANDIC WT 600 ACE

## Drive Pulley

|                         | SEA LEVEL<br>0 M (0 FT)          | 600 M<br>(2000 FT)             | 1200 M<br>(4000 FT)              | 1800 M<br>(6000 FT)            | 2400 M<br>(8000 FT)               | 3000 M<br>(10000 FT)              |
|-------------------------|----------------------------------|--------------------------------|----------------------------------|--------------------------------|-----------------------------------|-----------------------------------|
| Spring                  | Red/White<br>(P/N 417<br>223747) | Red/Red<br>(P/N 417<br>223745) | Red/White<br>(P/N 417<br>223747) | Red/Red<br>(P/N 417<br>223745) | Red/Yellow<br>(P/N 417<br>223748) | Red/Orange<br>(P/N 417<br>223749) |
| Ramp                    | 716 (P/N 417223450)              |                                | 725 (P/N 417223601)              |                                |                                   |                                   |
| Ramp quantity           | 6                                |                                |                                  |                                |                                   |                                   |
| Engagement<br>RPM ± 100 | 2200                             |                                |                                  |                                |                                   |                                   |
| Maximum<br>RPM ± 100    | 7250                             |                                |                                  |                                |                                   |                                   |

## Driven Pulley

|                                               | SEA LEVEL<br>0 M (0 FT) | 600 M<br>(2000 FT) | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
|-----------------------------------------------|-------------------------|--------------------|---------------------|---------------------|---------------------|----------------------|
| Spring                                        | Pink 3 (P/N 417127344)  |                    |                     |                     |                     |                      |
| Spring tension<br>Kg $\pm$ 0.7 (lb $\pm$ 1.5) | 6.4 kgf (14.1 lbf)      |                    |                     |                     |                     |                      |
| Cam angle (degrees)                           | 37°-45° (P/N 417127240) |                    |                     |                     |                     |                      |

**EXPEDITION SPORT 900 ACE /  
GRAND TOURING LE 900 ACE /  
GRAND TOURING SE 900 ACE /  
MX Z TNT 900 ACE /  
MX Z BLIZZARD 900 ACE /  
RENEGADE ADRENALINE 900 ACE /  
RENEGADE ENDURO 900 ACE**

**Drive Pulley**

|                         | SEA LEVEL<br>0 M (0 FT) | 600 M<br>(2000 FT)             | 1200 M<br>(4000 FT)          | 1800 M<br>(6000 FT)            | 2400 M<br>(8000 FT)                | 3000 M<br>(10000 FT) |
|-------------------------|-------------------------|--------------------------------|------------------------------|--------------------------------|------------------------------------|----------------------|
| Spring                  |                         | Yellow/Blue<br>(P/N 417224085) | Red/White<br>(P/N 417223747) | Yellow/Blue<br>(P/N 417224085) | Yellow/Pink<br>(P/N 417<br>224084) |                      |
| Ramp                    |                         | 749 (P/N 417224103)            | 751 (P/N 417224107)          |                                |                                    |                      |
| Engagement<br>RPM ± 100 |                         | 2200                           |                              |                                |                                    |                      |
| Maximum<br>RPM ± 100    |                         | 7250                           |                              |                                |                                    |                      |

**Driven Pulley**

|                                               | SEA LEVEL<br>0 M (0 FT) | 600 M<br>(2000 FT)        | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
|-----------------------------------------------|-------------------------|---------------------------|---------------------|---------------------|---------------------|----------------------|
| Spring                                        |                         | Red/Red (P/N 417127467)   |                     |                     |                     |                      |
| Spring tension<br>Kg $\pm$ 0.7 (lb $\pm$ 1.5) |                         | 7 kg (15.4 lb)            |                     |                     |                     |                      |
| Cam angle (degrees)                           |                         | 47° - 40° (P/N 417127474) |                     |                     |                     |                      |

# SKANDIC WT 900 ACE / SKANDIC SWT 900 ACE / EXPEDITION LE 900 ACE / EXPEDITION SE 900 ACE

## Drive Pulley

|                         | SEA LEVEL<br>0 M (0 FT) | 600 M<br>(2000 FT)         | 1200 M<br>(4000 FT)          | 1800 M<br>(6000 FT)            | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT)               |
|-------------------------|-------------------------|----------------------------|------------------------------|--------------------------------|---------------------|------------------------------------|
| Spring                  |                         | Red/Red<br>(P/N 417223745) | Red/White<br>(P/N 417223747) | Yellow/Blue<br>(P/N 417224085) |                     | Yellow/Pink<br>(P/N 417<br>224084) |
| Ramp                    |                         | 740 (P/N 417223679)        | 742 (P/N 417223918)          |                                |                     |                                    |
| Engagement<br>RPM ± 100 | 2200                    |                            |                              |                                |                     |                                    |
| Maximum<br>RPM ± 100    | 7250                    |                            |                              |                                |                     |                                    |

## Driven Pulley

|                                               | SEA LEVEL<br>0 M (0 FT) | 600 M<br>(2000 FT)            | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
|-----------------------------------------------|-------------------------|-------------------------------|---------------------|---------------------|---------------------|----------------------|
| Spring                                        |                         | Orange/Orange (P/N 417127434) |                     |                     |                     |                      |
| Spring tension<br>Kg $\pm$ 0.7 (lb $\pm$ 1.5) |                         | 7 kg (15.4 lb)                |                     |                     |                     |                      |
| Cam angle (degrees)                           |                         | 44° - 40° (P/N 417127412)     |                     |                     |                     |                      |

**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<br>0 M (0 FT) | 600 M<br>(2000 FT)             | 1200 M<br>(4000 FT)              | 1800 M<br>(6000 FT)            | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT)               |
|-------------------------|-------------------------|--------------------------------|----------------------------------|--------------------------------|---------------------|------------------------------------|
| Spring                  |                         | Yellow/Pink<br>(P/N 417224084) | Red/White<br>(P/N 417<br>223747) | Yellow/Blue<br>(P/N 417224085) |                     | Yellow/Pink<br>(P/N 417<br>224084) |
| Ramp                    |                         | 749 (P/N 417224103)            | 750 (P/N 417224105)              |                                |                     |                                    |
| Engagement<br>RPM ± 100 |                         | 2200                           |                                  |                                |                     |                                    |
| Maximum<br>RPM ± 100    |                         | 7900                           |                                  |                                |                     |                                    |

**Driven Pulley**

|                                               | SEA LEVEL<br>0 M (0 FT) | 600 M<br>(2000 FT)            | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
|-----------------------------------------------|-------------------------|-------------------------------|---------------------|---------------------|---------------------|----------------------|
| Spring                                        |                         | Beige2/Beige2 (P/N 417127242) |                     |                     |                     |                      |
| Spring tension<br>Kg $\pm$ 0.7 (lb $\pm$ 1.5) |                         | 7 kg (15.4 lb)                |                     |                     |                     |                      |
| Cam angle (degrees)                           |                         | 44° - 40° (P/N 417127476)     |                     |                     |                     |                      |

# GRAND TOURING LE 1200 4-TEC / GRAND TOURING SE 1200 4-TEC /

## Drive Pulley

|                         | SEA LEVEL<br>0 M (0 FT) | 600 M<br>(2000 FT)             | 1200 M<br>(4000 FT)              | 1800 M<br>(6000 FT)            | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT)               |
|-------------------------|-------------------------|--------------------------------|----------------------------------|--------------------------------|---------------------|------------------------------------|
| Spring                  |                         | Yellow/Pink<br>(P/N 417224084) | Red/White<br>(P/N 417<br>223747) | Yellow/Blue<br>(P/N 417224085) |                     | Yellow/Pink<br>(P/N 417<br>224084) |
| Ramp                    |                         | 749 (P/N 417224103)            | 750 (P/N 417224105)              |                                |                     |                                    |
| Engagement<br>RPM ± 100 | 2200                    |                                |                                  |                                |                     |                                    |
| Maximum<br>RPM ± 100    | 7900                    |                                |                                  |                                |                     |                                    |

## Driven Pulley

|                                               | SEA LEVEL<br>0 M (0 FT) | 600 M<br>(2000 FT)        | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
|-----------------------------------------------|-------------------------|---------------------------|---------------------|---------------------|---------------------|----------------------|
| Spring                                        |                         | Red/Red (P/N 417127467)   |                     |                     |                     |                      |
| Spring tension<br>Kg $\pm$ 0.7 (lb $\pm$ 1.5) |                         | 7 kg (15.4 lb)            |                     |                     |                     |                      |
| Cam angle (degrees)                           |                         | 44° - 40° (P/N 417127476) |                     |                     |                     |                      |

# EXPEDITION LE 1200 4-TEC / EXPEDITION SE 1200 4-TEC

## Drive Pulley

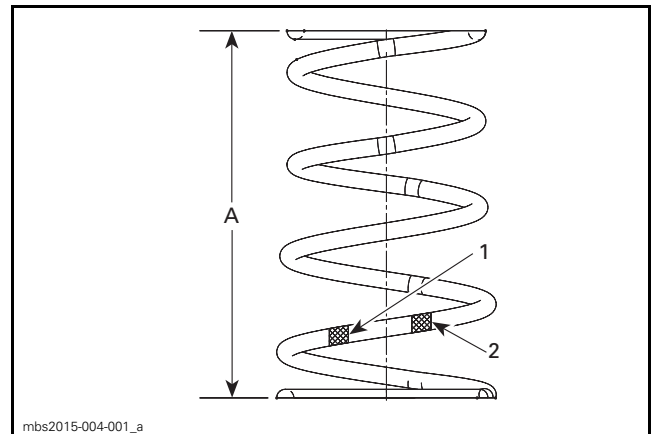
|                         | SEA LEVEL<br>0 M (0 FT) | 600 M<br>(2000 FT)             | 1200 M<br>(4000 FT)              | 1800 M<br>(6000 FT)            | 2400 M<br>(8000 FT)                | 3000 M<br>(10000 FT) |
|-------------------------|-------------------------|--------------------------------|----------------------------------|--------------------------------|------------------------------------|----------------------|
| Spring                  |                         | Yellow/Blue<br>(P/N 417224085) | Red/White<br>(P/N 417<br>223747) | Yellow/Blue<br>(P/N 417224085) | Yellow/Pink<br>(P/N 417<br>224084) |                      |
| Ramp                    |                         | 749 (P/N 417224103)            | 750 (P/N 417224105)              |                                |                                    |                      |
| Engagement<br>RPM ± 100 |                         | 2200                           |                                  |                                |                                    |                      |
| Maximum<br>RPM ± 100    |                         | 7900                           |                                  |                                |                                    |                      |

## Driven Pulley

|                                               | SEA LEVEL<br>0 M (0 FT) | 600 M<br>(2000 FT)       | 1200 M<br>(4000 FT) | 1800 M<br>(6000 FT) | 2400 M<br>(8000 FT) | 3000 M<br>(10000 FT) |
|-----------------------------------------------|-------------------------|--------------------------|---------------------|---------------------|---------------------|----------------------|
| Spring                                        |                         | Pink 4 (P/N 417127421)   |                     |                     |                     |                      |
| Spring tension<br>Kg $\pm$ 0.7 (lb $\pm$ 1.5) |                         | 7 kg (15.4 lb)           |                     |                     |                     |                      |
| Cam angle (degrees)                           |                         | 44° - 40 (P/N 417127424) |                     |                     |                     |                      |

# OPTIONAL DRIVE PULLEY SPRING RATES AND SPECIFICATIONS

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



TYPICAL - COLOR CODE

1. 1<sup>st</sup> color
2. 2<sup>nd</sup> color

## eDrive II (900 ACE / 1200 4-TEC) and eDrive II LC (550F / 600 ACE)

| 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 |               |
| 417223745             | 4.50      | 97.9        | 356                           | 80  | 667                         | 150 | Red / Red     |
| 417223747             | 4.30      | 108.0       | 356                           | 80  | 600                         | 135 | Red / White   |
| 417223748             | 4.80      | 87.3        | 355                           | 80  | 789                         | 177 | Red / Yellow  |
| 417223749             | 4.80      | 84.3        | 355                           | 80  | 845                         | 190 | Red / Orange  |
| 417223750             | 5.0       | 80.5        | 355                           | 80  | 934                         | 210 | Red / Green   |
| 417224084             | 4.50      | 105.4       | 489                           | 110 | 845                         | 190 | Yellow / Pink |
| 417224085             | 4.30      | 120.0       | 446                           | 100 | 690                         | 155 | Yellow / Blue |