



# INSTALLATION AND TUNING GUIDE

## QRS 500 MILE SERVICE KIT

**PART NUMBER(s): QRS500MI**

**WE ARE NOT RESPONSIBLE FOR ANY DAMAGES.  
BE VERY CAREFUL TO NOT DAMAGE YOUR CLUTCH  
DURING THIS PROCESS.**

### TOOLS NEEDED

- T30 TORX
- KWI Splitter plate
- Primary clutch puller
- 19mm 1/2" drive impact socket
- 5/16 or 8mm Socket
- 17mm socket
- Torque Wrench
- Clutch Belt removal tool
- Blue Locktite



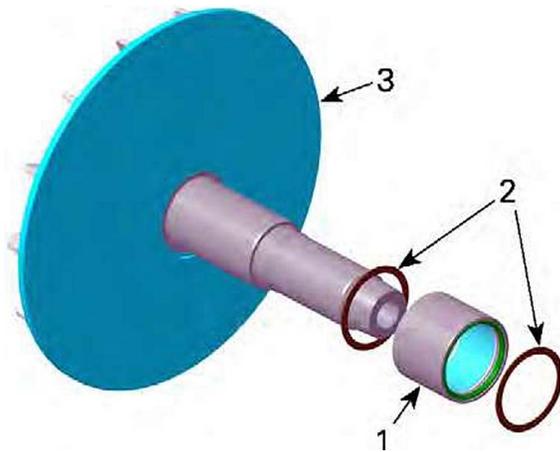
### ESTIMATED INSTALL TIME

75 MINUTES

#### Primary clutch disassembly and reassembly

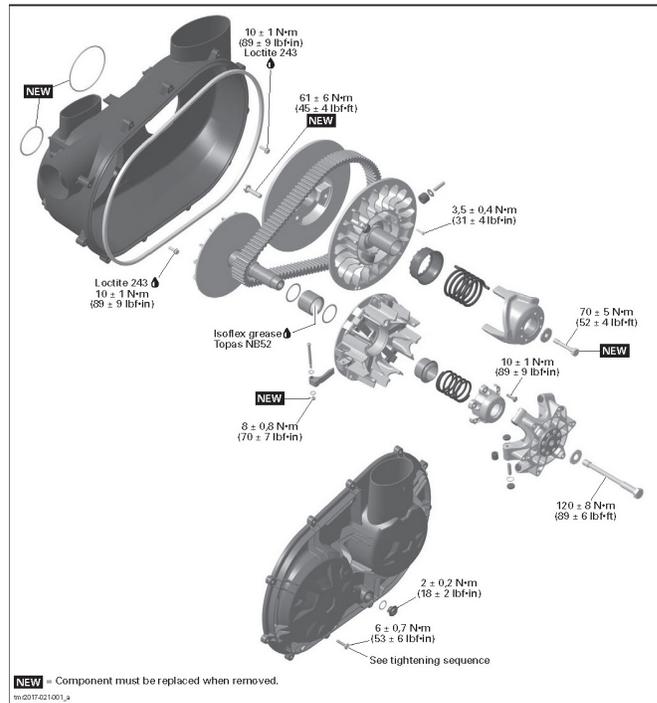
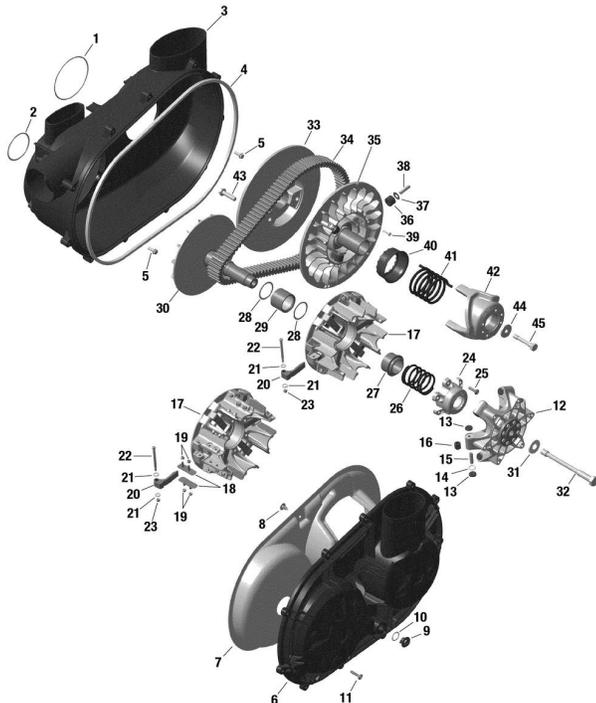
Reference diagrams on page 2

- 1) Remove belt box cover. (T30 TORX)
- 2) Remove CVT belt. (Clutch Belt Removal Tool)
- 3) Remove governor cup #12 and primary clutch outer half #17. (KWI splitter plate and primary clutch puller) **\*\*You do not need to remove the clutch from the vehicle or crankshaft to disassemble the clutch\*\*\***
- 4) Disassemble Outer half and Governor cup assy
  - a) Slide governor cup #12 out of Outer half #17 (3 slider shoes and 3 orings may fall out as you do this, that is normal. The rest should be pressed in)
  - b) Inspect governor cup pockets for wear (REFERENCE QRS PRIMARY CLUTCH MANUAL ON OUR WEBSITE FOR LIMITS) and scrape out old smashed oring if there is one. If the pockets are worn beyond limits you will need to replace the governor cup assembly to prevent future issues. (A new governor cup from BRP does not come with hex rollers, roller axles or slider shoes. KWI sells a complete governor cup assembly ready to go if you need)
- 5) Clean bearing and replace thrust washers
  - a) Slide off stop sleeve, hub bearing and 2 thrust washers
  - b) Thoroughly clean clutch shaft, stop sleeve and bearing with brake cleaner.
  - c) Apply a LIGHT coat of grease to the center of the bearing rollers only- **DO NOT PACK WITH GREASE!** Make sure all thrust washers and the sides and top of bearing are **COMPLETELY GREASE FREE** prior to installation.
  - d) Reassemble components onto clutch shaft using new thrust washers
- 6) Reinstall Governor cup and outer half.
  - a) Clean inside of governor cup steel taper and end of clutch fixed shaft with brake clean to remove all grease and dust.
  - b) Install remaining 3 NEW slider orings #14 and 3 NEW slider shoes #13 in governor cup, Slide governor cup into outer half.
  - c) Make sure Bearing #29 and 2 thrust washers #28 are on the primary fixed shaft then install outer half with governor cup.
- 7) Install primary bolt and washer and torque to manufacturer specs.



- 1 Hub bearing
- 2 Thrust washers
- 3 Fixed sheave

GREASE HERE ONLY



### QRS 500 MILE SERVICE KIT PARTS INCLUDED

PART DESCRIPTION	QTY	OEM PART #	OUR PART #
SLIDER SHOES AND ORINGS	3	—	
BEARING THRUST WASHERS	2	—	
ISOFLEX TOPAZ GREASE	1	—	

#### LIABILITY STATEMENT

As defined by the Magnuson-Moss warranty Act. Do not install any performance parts or services unless you have the technical ability to properly set-up the entire machine to compensate for the installation of those parts. The necessary work and expertise needed to install different product varies. Instructions, where provided, are given to assist in installation only; they are not a substitute for mechanical experience in setting up racing vehicles. References to performance gains, reliability, ease of installation, etc. are based on our and outside customer's experiences. This is not a guarantee of similar performance in every installation. While we sell proven products, in the end it's up to the individual to make the most of the product. Kris Werth Inc. d.b.a. KWI Clutching or its associated corporations are not responsible for any personal or property damages caused by this product. Kris Werth Inc. d.b.a. KWI Clutching or its associated corporations assumes no responsibility for damage or injury of any kind because of misuse, improper installation or improper application of any parts in anyway, by any person. Contact your local dealer to schedule installation of this kit if you are not a qualified ATV or UTV mechanic. USE OF PRODUCTS. BUYER SHALL USE, AND REQUIRE ITS EMPLOYEES, CONTRACTORS, AND AGENTS TO USE, ALL AVAILABLE SAFETY PRECAUTIONS, IN ADDITION TO ANY SPECIFICALLY SET FORTH IN ANY MANUALS, MATERIAL SAFETY DATA SHEETS, TECHNICAL DATA SHEETS, INSTRUCTION SHEETS, IF ANY, FURNISHED BY SELLER (OR AVAILABLE FROM RAW MATERIAL SUPPLIERS) RELATING TO SELLER'S PRODUCTS. IF BUYER DOES NOT RECEIVE ANY REQUIRED MATERIAL SAFETY DATA SHEETS FOR ANY PRODUCT FROM SELLER, BUYER WILL REQUEST THEM FROM SELLER. IF BUYER FAILS TO STRICTLY OBSERVE EACH AND EVERY ONE OF THE OBLIGATIONS SET FORTH IN THIS SECTION 22 OR IF BUYER'S USE OF ANY OF SELLER'S PRODUCTS IS IN VIOLATION OF ANY STANDARD OR RULE OF THE AMERICAN NATIONAL STANDARDS INSTITUTE OR OCCUPATIONAL HEALTH AND SAFETY ACT, OR OTHER APPLICABLE WORKPLACE LAW, REGULATION, OR STANDARD, BUYER WILL INDEMNIFY, DEFEND, AND HOLD HARMLESS SELLER AND SELLER AND ITS EMPLOYEES, OFFICERS, DIRECTORS, AGENTS, AFFILIATES, SUCCESSORS AND ASSIGNS FROM AND AGAINST ANY AND ALL CLAIMS, DEMANDS, DAMAGES, ACTIONS, AND CAUSES OF ACTION, AS WELL AS ANY AND ALL LIABILITY, LOSS, OR EXPENSE OF ANY KIND, INCLUDING REASONABLE ATTORNEYS' FEES ARISING FROM, CONNECTED WITH OR IN ANY WAY PERTAINING TO ANY SUCH FAILURE BY BUYER. NOTIFICATION. BUYER SHALL NOTIFY SELLER PROMPTLY, AND IN ANY EVENT WITHIN 30 DAYS, AFTER ANY ACCIDENT OR FAILURE INVOLVING SELLER'S PRODUCTS THAT RESULTS IN PERSONAL INJURY OR DAMAGE TO PROPERTY AND SHALL COOPERATE FULLY WITH SELLER IN INVESTIGATING AND DETERMINING CAUSES OF SUCH ACCIDENT OR FAILURE. ATTORNEYS' FEES AND COSTS. BUYER WILL PAY SELLER'S REASONABLE ATTORNEYS' FEES AND OTHER COSTS AND EXPENSES FOR ANY LEGAL OR EQUITABLE ACTION UNDERTAKEN BY SELLER TO ENFORCE THESE TERMS OR THE PROVISIONS OF ANY SUPPLY AGREEMENT.