



## INSTALLATION INSTRUCTIONS

### KWI GROOVIX HELIX FOR ALL YEARS CAN AM X3

**PART NUMBER(s):** GROOVIX

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

#### TOOLS NEEDED

- 1/2" Drive Impact Gun
- 22mm or 7/8" - Wrench
- 13mm or 1/2" - 1/2" Drive Impact Socket
- 17mm - 1/2" Drive Impact Socket
- Torque Wrench
- T30 Torx
- T40 Torx
- Clutch Belt removal tool
- Blue Locktite
- Long 3/8" or 1/4" drive extension



NOTE: No component marking is required before disassembly. The clutches feature factory apposed index marks as references if needed.

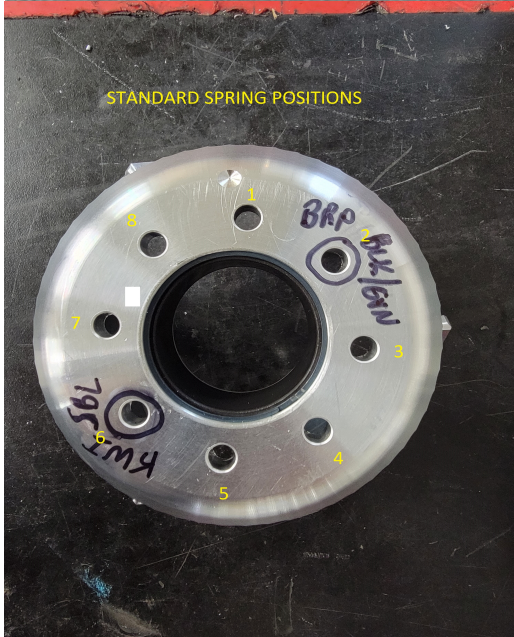
#### Removing and installing secondary clutch (QRSX and PDrive)

- 1) Remove belt box cover. (T30 Torx)
- 2) Remove CVT belt. (Clutch Belt removal tool)
- 3) Remove secondary clutch bolt. (17mm or 7/8" - 1/2" Drive Socket)
- 4) Secondary clutch will slide off shaft.
- 5) (KWI Float Mod) Reinstall secondary clutch in accordance with the KWI Fload Mod Instructions.
- 6) (No KWI Float Mod) Align splines and slide secondary clutch on shaft.
- 7) Secure secondary clutch on crankshaft by torquing the secondary clutch bolt to bolt manufacturer specs.(17mm -1/2" Drive Socket)(Torque Wrench) Use a long 1/4" or 3/8" extension thru the helix and spring to hold secondary while torquing.
- 8) Reinstall CVT belt and belt box cover.

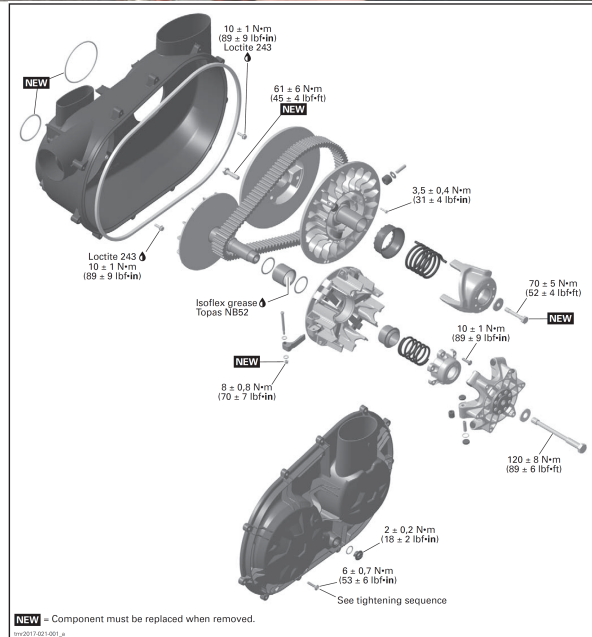
#### Secondary clutch disassembly and reassembly (QRSX and PDrive)

- 1) Remove secondary clutch. (See "Removing and installing secondary clutch")
- 2) Clamp welded nut end of threaded rod in a suitable vise. Place puller cup (without puller cup bolt) over threaded rod.
- 3) Place secondary clutch over threaded rod with helix facing down Turn nut in to compress helix slightly and take tension off of helix bolts. Remove 3 helix bolts. While holding sheaves from turning (by hand) and helix from turning (with a long 1/4 or 3/8 extension inserted thru helix and spring) turn nut out to relax spring tension. Disassemble clutch as required. (22mm or 7/8" - Wrench)
- 4) Install the secondary moveable and fixed sheaves together on the threaded rod with the helix
- 5) Install the KWI GROOVIX with the spring clocked as specified by your clutch kit manufacturer. **Hole #1 is marked by a dot then count up in a clockwise direction per the photo. The GROOVIX helix uses equally spaced holes and does not correlate to the OEM holes.** Hole #2 in the GROOVIX is approx 40 degrees wrap using the OEM or KWI Dark Blue/Pink spring and is the standard setting. Hole #6 in the GROOVIX is approx 40 degrees wrap using the KWI SBL spring and is the standard setting.
- 6) Install the large compression washer then nut on the threaded rod until it starts to compress the spring.
- 7) Insert a long 1/4 or 3/8 extension inserted thru helix and spring. Hold the sheaves from turning while you rotate the helix **CLOCKWISE** until the legs clear the rollers. Tighten the threaded rod nut and compress the helix spring.
- 8) Install the 3 helix bolts using **BLUE** Locktite and torque to spec.

\*\*\*\*\* (THE DR3 GROOVIX IS A MODIFIED VERSION OF THE ORIGINAL DR HELIX- THE DR3 HAS LOWER INITIAL RPM AND HAS MORE CONTROL OVER BELT SLIP AT SUSTAINED HIGH SPEED) \*\*\*\*\*



STANDARD SPRING POSITIONS



**PARTS INCLUDED**

REF	PART DESCRIPTION	QTY	OEM PART #	OUR PART #
1	KWI GROOVIX HELIX	1	—	GROOVIX

**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.