

# POLARIS RZR PRO R RZRX302 or RZRX302T CLUTCH KIT

# PART NUMBER(s): RZRX302 or RZRX302T

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

## TOOLS NEEDED

- 10mm Ratcheting Wrench
- 3/8" 1/4 Drive Socket
- 1/4" Drive Ratchet
- 3/8" Drive Ratchet
- 15mm 3/8 drive Socket
- 1/8" Allen wrench
- Torque Wrench
- Polaris Clutch Belt removal tool
- Blue Locktite



NOTE: No component marking is required before disassembly. This drive pulley features factory index marks as references if needed.

# **ESTIMATED INSTALL TIME**

#### **45 MINUTES**

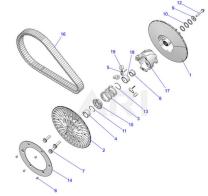
#### Primary clutch disassembly and reassembly

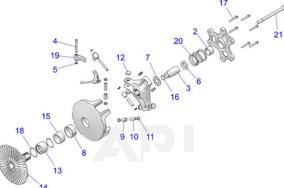
- 1) Remove seats and belt box cover. (10mm ratcheting wrench)
- 2) Remove CVT belt. (Polaris Clutch Belt Removal Tool)

3) \*\*No need to remove the primary clutch from the crankshaft\*\* Remove the 6 bolts securing the cover and the 6 weight pins and nuts replace factory weights with KWI weights and magnets as outlined in the chart below and torque weight pins and nuts to 20 in-lb (2 Nm). Reinstall the OEM spring and primary clutch covertorque bolts to 15 ft-lbs (21 Nm).

## Secondary clutch disassembly and reassembly

- 1) Remove secondary clutch bolt. (15mm socket)
- 2) Remove the secondary from the splined shaft by removing the bolt/washer/shims and sliding the clutch off the shaft.
- 3) Separate secondary clutch halves by sliding them apart. Put a threaded rod thru inner half with helix and clamp carefully with 2 washers and 2 nuts. There is substantial spring pressure, so ensure you use the correct tools.
- 4) Remove 3 bolts attaching helix to moveable sheave. Relieve spring tension by unscrewing threaded rod nuts. Note position and orientation of components.
- 5) Remove secondary spring and install KWI secondary spring. Reassemble secondary components in order removed and carefully compress using threaded rod or KWI tool kit.
- 6) Reinstall 3 screws thru sheave and into helix using BLUE Locktite. Torque to 32 ft-lbs (44 Nm).
- 7) When the secondary is assembled, install it back on the shaft and bolt in place. Torque the secondary bolt to 55 ft-lbs (75 Nm).





## MAGNET RPM ADJUSTMENT

This requires the cam arms be removed from the clutch. The weight of the added magnets affects RPM. The more magnets that are installed the lower the RPMS will be. 1 thick magnet from each weights will change Full Throttle RPM approx 100 RPM

- 1) Remove the cam arms from the clutch. (SEE "Primary clutch disassembly and reassembly" ABOVE)
- 2) There are 3 holes in the arms to place magnets- you can place magnets in holes as required. Magnets in the hole closest to the cam arm pin will affect RPM's from 0-20 MPH. Magnets in the center hole will affect RPM's from 20-50 MPH.. Magnets in the hole farthest to the cam arm pin will affect RPM's at 50+ MPH..
- 3) Magnets MUST be distributed so that the clutch is balanced. Make sure arms have identical magnets installed. Do not overfill magnet slots!
- 4) For sand dunes or tires larger than 33" remove 2 total thick magnets from the recommended low altitude trail settings then test full throttle RPM at 55mph and adjust if necessary.
- 5) For high riding elevations above 5000' remove 4 total thick magnets from the recommended low altitude trail settings then test full throttle RPM at 55mph and adjust as necessary.
- 6) Reinstall the cam arms and tighten to spec.

These c	harts are a guideli	ne with very cl	lose start points	for trail riding with standard tires at low riding ele	vations.	
X302 Recommend	ded settings (PRC	R CAM ARM)	(choose the Cra	nkshaft horsepower/Wheel horsepower that best m	atches your RZR)	
Crankshaft horsepower (CHP) / Wheel horsepower (WHP)	Hole #1 (Closest to pin) Magnets	Hole #2 Magnets	Hole #3 (Tip of arm)Magnets	Sprgs	Full throttle RPM at 55mph	
225CHP/190WHP Stock	1	4	0	OEM primary spring, KWI Black Orange secondary spring	8200 RPM +/-200 RPM	
250CHP/225WHP	2	4	2		or RPM SPECIFIED BY YOUR	
270CHP/240WHP	4	4	4		AFTERMARKET ENGINE TUNIN SPECIALIST	
X302T Recommended	settings (PRO R 1	HEAVY CAM	ARM) (choose th	e Crankshaft horsepower/Wheel horsepower that b	est matches your RZR)	
Crankshaft horsepower (CHP) / Wheel horsepower (WHP)	Hole #1 (Closest to pin) Magnets	Hole #2 Magnets	Hole #3 (Tip of arm)Magnets	Sprgs	Full throttle RPM at 55mph	
300CHP/280WHP	4	3	1	KWI Red primary spring, KWI Black Orange	8400 RPM +/- 200 RPM or	
350CHP/330WHP	5	5	5	secondary spring	RPM SPECIFIED BY YOUR AFTERMARKET ENGINE TUNIN	

#### RZRX302 PARTS INCLUDED

PART DESCRIPTION	QTY	OEM PART #	OUR PART #
PRO R ADJUSTABLE CAM ARM	3	—	
BLACK ORANGE SECONDARY SPRING	1	—	BLK/ORG
MAGNET PACK	1	—	MAGNETS

#### LIABILITY STATEMENT

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