INSTALLATION GUIDE

CAN AM DX3 CONVERSION CLUTCH KITS

***PART NUMBER(s)**: DX3*

**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
- 24mm - 1/2" Drive Impact Socket
- Torque Wrench
- 6mm Allen
- Wrench
- T30 Torx
- T25 Torx
- 8mm or 5/16" wrench
- KWI MAVTOOL clutch tool set or equivalent
- Clutch Belt removal tool
- Blue Locktite
- KWI Weight Changing Tool (Optional)
- Long 3/8" or 1/4" drive extension

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

ESTIMATED INSTALL TIME

90 MINUTES

Primary clutch disassembly and reassembly

1) Remove belt box cover. (T30 Torx)
2) Remove CVT belt. (Clutch Belt removal tool)
3) Remove primary clutch bolt. (22mm - 1/2" Drive Impact Socket)
4) Thread primary clutch puller all the way in by hand and tighten with impact wrench until the primary clutch pops off of the shaft. (KWI PUL1 clutch puller or equivalent)
5) Remove Primary clutch from vehicle.
6) Leave primary clutch puller installed in primary clutch and unscrew it approx 4-5 turns.
7) Hold the clutch by cradling the outer half sheave with your hands and hit the puller with a hammer to separate the governor cup from the inner half shaft.
8) Remove the OEM governor cup and discard.
9) Remove the OEM cam arms and retain the bolts, washers and nuts for re-use. Discard the OEM cam arms.(T25 Torx)(8mm or 5/16" wrench)
10) Disassemble the OEM outer half by removing the 6 torx screws. Retain OEM spring and black OEM spring retainer for re-use. (T30 Torx)(BEARING COVER WILL BE UNDER SLIGHT SPRING TENSION)
11) Discard the OEM outer half and bearing cover.
12) Install OEM retainer and spring in new outer half.
13) Install OEM spring support, OEM spring, NEW Bearing cover and 6 screws in NEW Turbo RR outer half. Compress and hold down bearing cover spring pressure for bearing cover removal and installation.
14) Properly configure the magnet setup on the AO.001 cam arms for your vehicle using the setup chart.
15) Install the AO.001 cam arms in your clutch with OEM thrust washers on each side and secure with the pin and nut. (For future tuning- Cam Arms can be removed and installed without any clutch disassembly by using the KWI Weight Changing Tool)
16) Reassemble primary clutch, secure with primary clutch bolt and torque to bolt manufacturer specs. (Torque Wrench)

Removing and installing secondary clutch

1) Remove secondary clutch bolt. (17mm or 7/8" - 1/2" Drive Socket)
2) Secondary clutch will slide off shaft.
3) (KWI Float Mod) Reinstall secondary clutch in accordance with the KWI Fload Mod Instructions.
4) (No KWI Float Mod) Align splines and slide secondary clutch on shaft.
5) 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.
6) Reinstall CVT belt and belt box cover.

Secondary clutch disassembly and reassembly

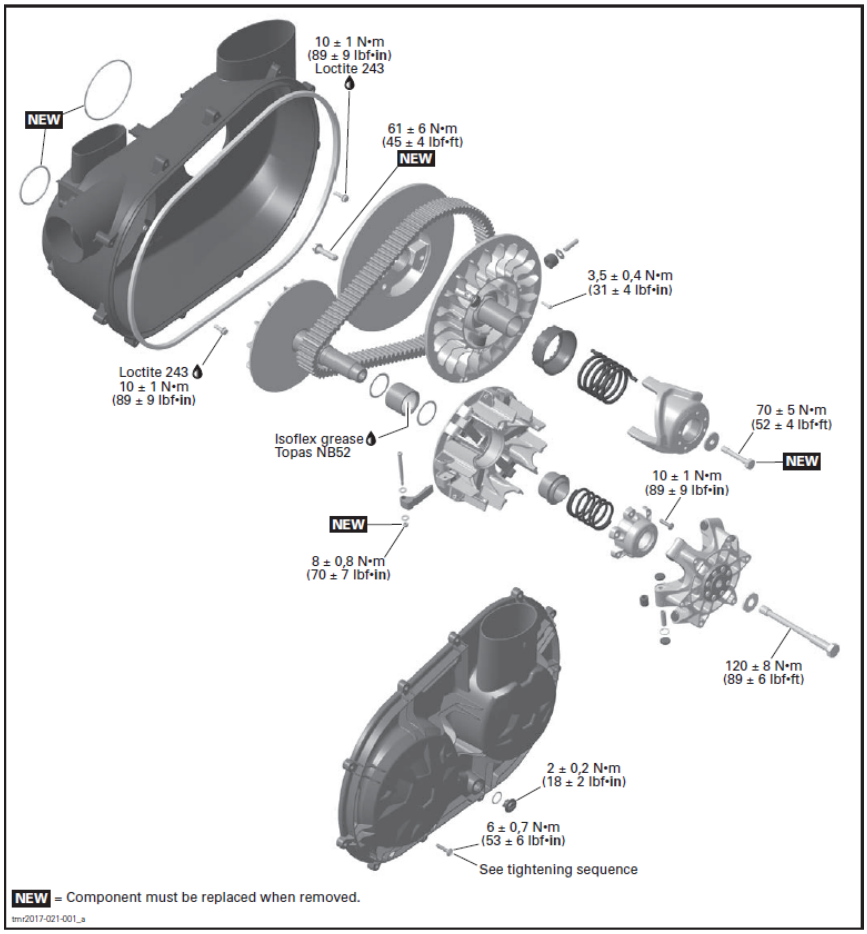
1) Remove secondary clutch. (See "Removing and installing secondary clutch")
2) Clamp welded nut end of threaded rod in a suitable vise. Place puller cup (without puller cup bolt) over threaded rod.
3) Place secondary clutch over threaded rod with helix facing down Turn nut in to compress helix slightly 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 Helix with the spring clocked as specified the tuning chart.
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.

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. If you remove magnets the RPM will increase.

1) Remove the cam arms from the clutch. (KWI Weight Changing Tool or equivalent)
2) Remove or add magnets as required. If there are 2 holes in the AO cam arms to place magnets- you can place magnets in either hole but magnets MUST be distributed so that the clutch is balanced. Make sure arms with identical magnets are either placed across from each other or in every other position to maintain clutch balance. Do not overfill magnet slots (FLUSH IS FULL)!
3) Reinstall the cam arms and tighten to spec.

Model / Tune / Tire Size	# of Magnets per weight	Primary spring	Secondary spring / Helix / hole	Full throttle RPM at 55mph
1000 / Stock / 28"	3	KWI Blue/ Orange	KWI Black/Green secondary spring with stock helix in hole #4 or optional KWI DR3 GROOVIX helix in hole #2	6700 RPM +/- 100 RPM
1000 / Stock / 32"	1		KWI Black/Green secondary spring with stock helix in hole #6 or optional KWI DR3 GROOVIX helix in hole #5	
1000 / Stock / 35"	0		KWI Black/Green secondary spring with stock helix in hole #6 or optional KWI DR3 GROOVIX helix in hole #5	
1000 / 93 Octane Tune / 28"	4		KWI Black/Green secondary spring with stock helix in hole #4 or optional KWI DR3 GROOVIX helix in hole #2	
1000 / 93 Octane Tune / 32"	2		KWI Black/Green secondary spring with stock helix in hole #6 or optional KWI DR3 GROOVIX helix in hole #5	
1000 / 93 Octane Tune / 35"	0		KWI Black/Green secondary spring with stock helix in hole #6 or optional KWI DR3 GROOVIX helix in hole #5	



DX3 PARTS INCLUDED

	PART DESCRIPTION	QTY	OEM PART #	OUR PART #
	AO ADJUSTABLE CAM ARM	6	—	AO.001
	TURBO RR GOVERNOR CUP	1	420280725	—
	BLUE/ORANGE PRIMARY SPRING	1	—	PBL/0
	TURBO RR OUTER HALF	1	420280466	—
	MAGNET PACK	1	—	MAGNETS
	TURBO RR BEARING COVER	1	420280618	—