



**2022 X3 Turbo RR Ultimate Shift-Tek-P Clutch Kits**

SKU(s): 402FC0060

SHIFT-TEK ADVANCED CLUTCH KIT PART NUMBER	EVP TUNE	ENGINE POWER LEVEL	USE	PRIMARY SPRING	WEIGHTS	SECONDARY SPRING	HELIX	HELIX HOLE POSITION	SPRING ROTATION
Stock	Stock	205HP	SAND	Stock Spring	(3) P Weights	Purple EVP	EVP 41-52	5	0
3R-91	2022 Turbo RR Stage 3R-91	205-220 HP	SAND	Stock Spring	(3) P Weights	Purple EVP	EVP 41-52	5	0
3R-93	2022 Turbo RR Stage 3R-93	220-230HP	SAND	Stock Spring	(3) P Weights	Purple EVP	EVP 41-52	5	0
4X100	2022 Turbo RR Stage 4 X100	230-250 HP	SAND	Stock Spring	(3) P Weights	Purple EVP	EVP 41-52	5	+1 from 0
5X85	2022 Turbo RR Stage 5 X85	250-260 HP	SAND	Stock Spring	(3) P Weights	Purple EVP	EVP 41-52	5	0

**-Stock Turbo Operating RPM: 8100**



**INSTALLATION INSTRUCTIONS**

	STOCK	3R-91	3R-93	4X100	5X85
<b>HOLE 1</b>	2. 3/8" ss	2. 3/8" ss	2. 3/8" ss	2. 1/2"ss	2. 1/2"ss
<b>HOLE 2</b>	0	0	0	0	0
<b>HOLE 3</b>	0	2. 3/16" ss	2. 3/16" ss	2. 1/4" ss	2. 1/4" ss
<b>HOLE 4</b>	2. 3/16" ss	2. 3/16" ss	2. 3/16"ss	2. 1/4" ss	2. 1/4" ss
<b>OPERATING RPM</b>	8100	8100	8100	8100	8100

**NOTE:** Always install a set screw on both sides of the weight arm. Install the screws with the provided blue thread locking agent, making sure the screws are installed with an equal amount of thread engagement.



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**Step 1:** For these instructions we removed the primary clutch off the vehicle, you don't need to remove the clutch but you will need to compress the sheaves to work on the weights/ramps.

**Step 2:** Set up all (3) weights to the corresponding tune you are running. Graph is located above this page. All (3) weights must be set up identical. Use Medium thread locker on all set screws.

**Step 3:** Once the primary clutch is removed and placed on a clean workplace draw a straight line between the spider, moveable, and stationary sheave (if disassembling the clutch). The pDrive clutch does come with alignment numbers if you chose not to draw alignment lines. compress the clutch approximately an inch.



Figure 1



Figure 2

**Step 4:** Remove the weight axle screw using a T-25 Torx socket.



**Step 5:** Once the weight axle screw is removed, thread in the axle removal tool into the same hole. Once threaded all the way in, tap the axle removal tool with a hammer. The axle is only tapered on the left side of the sheave casting. Pull the pin the rest of the way out.



Figure 3



Figure 4

**Step 6:** Laying on the work bench should be: OEM weight, axle, and axle screw. Continue doing steps 4-5 to the other weights.

**Step 7:** Install the new weight into the clutch. Slide the axle in from the right side pushing towards the left weight tower. Install the Torx screw on the left side, tighten the Torx screw down to 4 ft/lbs. Once complete make sure the weight can freely rotate up and down. Continue this for the remaining weights.



Figure 5

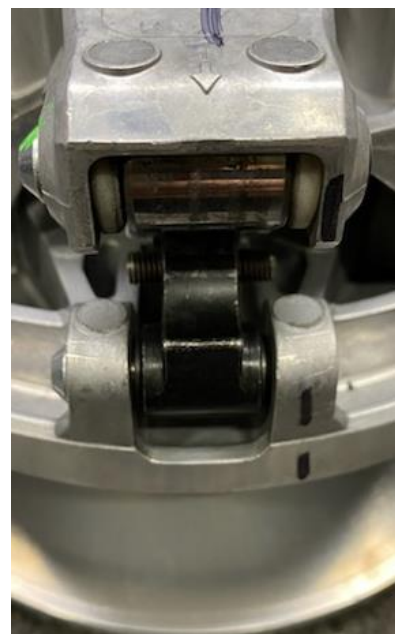


Figure 6



**Step 8:** Since you are this far along, take the rollers out and inspect them, along with the spacers and pin. Removal of the rollers are the same as the weights. Remove Torx screw, thread in pin removal tool, tap with a hammer. Install the Torx screw to 4 ft/lbs.



Figure 6



Figure 7



Figure 8

**Step 9:** Once complete, install the primary clutch back onto the vehicle. IF you removed the clutch. Torque the primary bolt to 89 ft-lbs. Install the drive belt. Drive the vehicle at low speeds (20-30mph). Re torque the primary to 89 ft-lbs.

If you have the EVP XR Series Primary bolt, torque it to 110 ft/lbs doing the same sequence.

### ***Installation of the Helix and Spring***

**Step 1:** Remove the secondary clutch with a 17mm socket and impact, mount it into a clutch compression tool. With a sharpie make alignment marks on both sheaves. (Figure 1)

**Step 2:** Use 13mm socket to take 3 fasteners out of the helix and carefully loosen the spring compression tool to remove tension. (Figure 2)



Figure 1



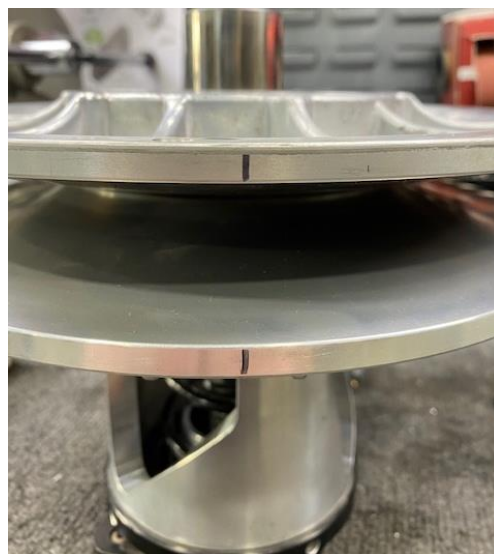
Figure 2

**Step 3:** Pull off both sheaves, remove spring cup and spring from the OEM helix.

**Step 4:** Grab the new helix, make sure the helix cap is adjusted to -45 degrees, if not loosen (3) Allen screws and clock the helix cap. Tighten the (3) Allen screws back down.



**Step 5:** Reassemble the secondary clutch on the clutch compression tool in this order: Helix assembly, stock spring in hole 4 (EVP Purple Spring hole 5), spring cap, both sheaves in alignment. When compressing make sure the rollers are in line with the helix ramps. You may need to adjust with your hands while compressing.



**Step 6:** Apply Red Loctite onto the threads of the (3) 13mm bolts holding the helix to the sheaves.

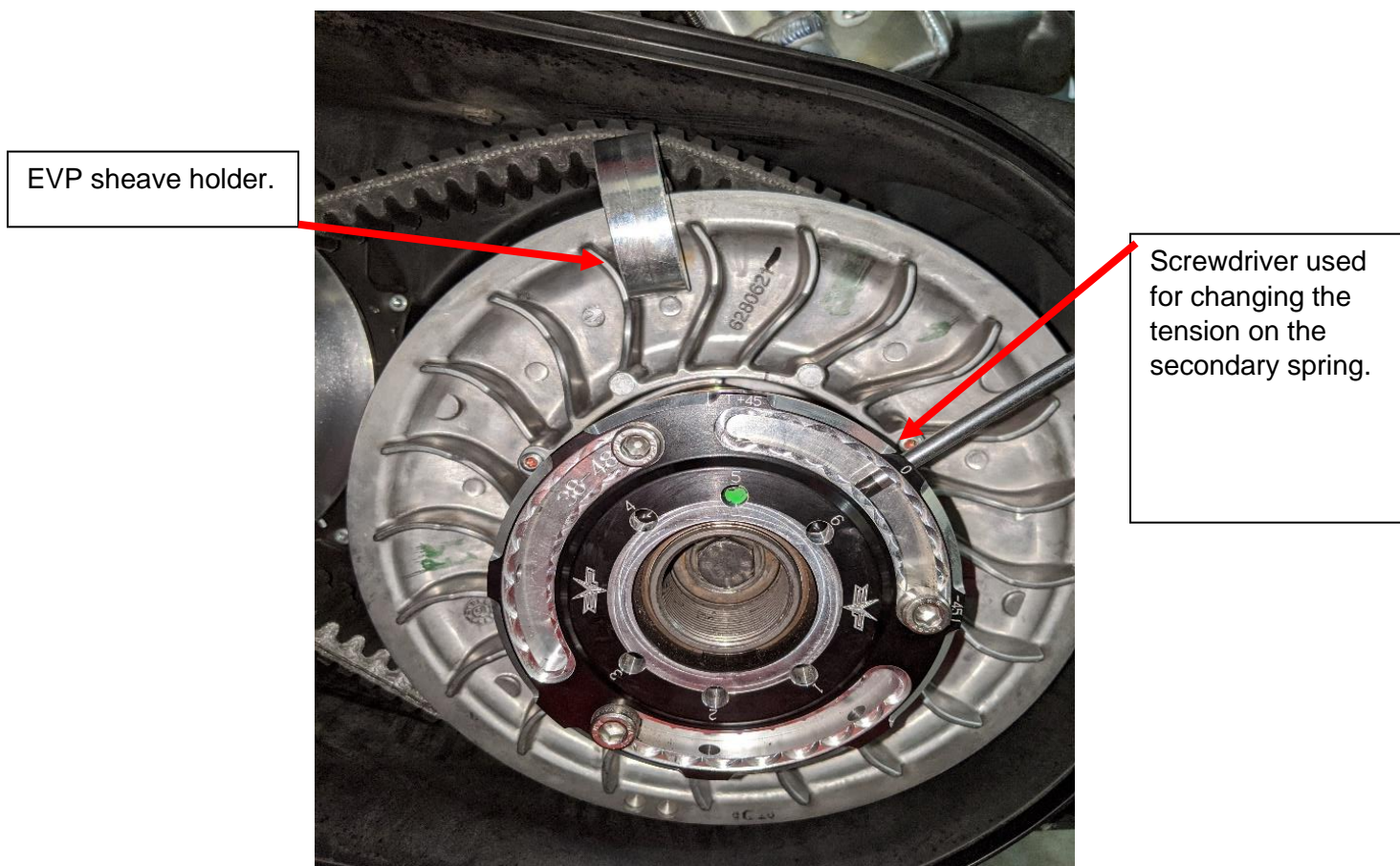
**Step 7:** Reinstall the clutch on the vehicle and torque secondary bolt to 52 ft-lbs.

**Step 8:** Using the Can Am belt changing tool with EVP non-marring tip reinstall belt, spin secondary to get belt back to the top of the clutch



**Step 9:** Before removing the belt changing tool, apply a small amount of pressure to EVP helix cover and loosen the (3) 6mm Allen screws enough to clear the machined groove

**Step 10:** Put the EVP sheave holder between the fins on the secondary clutch and use a screwdriver to rotate the helix cover clockwise to desired tension. Use the 6mm Allen to tighten the screws back down. (See picture on next page)



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