



X3 Shift-Tek Ultimate Clutch Kits

SKU(s): ST-205 (402FC0002), ST-225 (402FC0003), ST-235 (402FC0004), ST-250 (402FC0005), ST-275 (402FC0006), ST-320 (402FC0007)

REQUIRED TOOLS

Clutch Service Tool Kit
Screwdriver(s)
T-25 Torx
Magnet
6mm Allen Socket

REQUIRED TOOLS

1/2" Impact
8,13,17,19,22mm Sockets
Torque Wrench



EVP/O5C PRIMARY CLUTCH WEIGHTS

Zinc coated, hardened steel

Color differentiated for easy identification while installed in the clutch

One piece bushing for each side of the weight - eliminates dealing with difficult washers

Aggressive profile arc for faster upshift and backshift

Multiple base weights for virtually unlimited power levels and usage

Adjustable weights include a screw pack to further vary weight mass and shift pattern

Designed to work with EVP helix angles and springs

GOLD 54 GRAM

BLACK 60 GRAM

SILVER 60-65 GRAM ADJUSTABLE

HARDWARE PACK

NO MAR TIP FOR OEM BELT TOOL



BILLET BEARING HOUSING



BILLET BELT/SHEAVE TOOL



PRIMARY CLUTCH SPRING

2400 RPM ENGAGEMENT SPRING



BILLET HELIXES





INSTALLATION INSTRUCTIONS

SHIFT-TEK ADVANCED CLUTCH KIT PART NUMBER	EVP TUNE	ENGINE POWER LEVEL	USE	PRIMARY SPRING	WEIGHTS	SECONDARY SPRING	HELIX	HELIX HOLE POSITION	SPRING ROTATION
ST-205	2017-2021 Stage 1-3R Turbo R 2020 Turbo RR Stage 1	190- 205 HP	SAND OR TRAIL	2400RPM ORANGE Spring	6 GOLD	EVP	EVP 41-52	5	1 from 0
ST-225	2017-2021 Turbo R Stage 3RWI-4RWI. 2020 Turbo RR Stage 3-3R. 2021 Turbo RR Stock	225HP	SAND OR TRAIL	2400RPM ORANGE Spring	2 BLACK 4 GOLD	EVP	EVP 41-52	5	1 from 0
ST-235	2017-2021 Turbo R Stage X100-X85 2020 Turbo RR 3RWI 2021 Tuned	235HP	SAND OR TRAIL	2400RPM ORANGE Spring	3 BLACK 3 GOLD	EVP	EVP 41-52	5	0
ST-250	2020 Turbo RR Stage 4RWI, 5RWI, X85	250HP	SAND OR TRAIL	2400RPM ORANGE Spring	4 BLACK 2 GOLD	EVP	EVP 41-52	5	-2 from 0
ST-275	2017-2020 Dynomite 275	275HP	SAND OR TRAIL	2400RPM ORANGE Spring	6 BLACK	STOCK	EVP 35-45	4	0
ST-320?	2017-2021 Dynomite & Desert Storm	275- 320 HP	SAND OR TRAIL	2400RPM ORANGE Spring	2 ADJUSTABLE 4 BLACK	STOCK	EVP 35-45	4	0

NOTE: For all Stage Cam arms must be installed in the correct location to maintain the balance of the clutch. Please note the instructions for the various stages below.

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INSTALLATION INSTRUCTIONS

General OEM cam arm removal and installation:

Step 1: Remove clutch cover and belt

Step 2: For OEM cam arm removal, use a T25 Torx bit on one end of the pin and an 8mm socket on the other and remove the nut.

Step 3: Remove the pin.

Step 4: Use a screwdriver to open the sheaves and a magnet to retrieve the cam arm SEE PICTURES BELOW– be careful to save the washers that are installed on both sides of the arm – these will be needed if you ever use the stock weights again. They are NOT needed for the installation of the EVP weights.

Step 5: To install the new cam arms, slide an arm into the location where the previous arm was installed. Use a magnet to position the arm so the pin can be reinstalled. Reinstall nut onto pin



CAM ARM BREAKDOWN

ST-205

6 Gold

The EVP cam arms will replace all the arms.

ST-225:

2 Black, 4 Gold

The EVP cam arms need to be staged as 1 black, 2 gold, 1 black, 2 gold.

ST-235

3 Black, 3 Gold

The EVP cam arms need to be staged as 1 black, 1 gold, 1 black, 1 gold, 1 black, 1 gold.

ST-250

4 Black, 2 Gold

The EVP cam arms will need to be staged as 2 black, 1 gold, 2 black, 1 gold.

ST-275

6 Black

The EVP cam arms will replace all the arms.

ST-320

2 Adjustable, 4 Black

The EVP cam arms will be staged as 1 adjustable, 2 black, 1 adjustable, 2 black.

The adjustable weights will need (2) 3/16"ss set screws on the toe side of each weight.

Leave the heel side empty.



Stock Turbo Tunes: Shift RPMS 7900-8100

Big Turbo Tunes: Shift RPMS 8000-8300

SHIFT TEK HELIX INSTALL

- Step 1:** Using the 17mm socket remove the secondary clutch from the vehicle.
- Step 2:** Use the spring compression tool and align the clutch so you can get to the fasteners securing the helix.
- Step 3:** Use 13mm socket to take 3 fasteners out of the helix and carefully loosen the spring compression tool to remove the stock helix
- Step 4:** Install new helix with the billet end cap at -45 adjustment. This will make installing the helix easier as there will be less rotational tension. Insert the spring tab on the #4 hole in the end cap and make sure the other end of the spring is properly seated in the hole on the clutch sheave. Use the clutch service tool to compress the spring while making sure the helix is rotated clockwise so the helix ramp goes over the clutch roller. (See picture to right)



Helix must be rotated clockwise so the ramp will clear the roller.



- Step 5:** Install the fasteners securing the helix in place using red Loctite.
- Step 6:** Reinstall the clutch on the vehicle and torque secondary bolt to 52 ft-lbs.
- Step 7:** 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 8:** 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 9:** 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 to right)



EVP sheave holder.

Screwdriver used for changing the tension on the secondary spring.



INSTALLATION INSTRUCTIONS

Thank you for choosing Evolution Powersports products. If you require further assistance, please call our Tech Support @ (715) 247-3862

Note: This product is exempt from the emission standards and related requirements of 40 C.F.R. § 1051 as provided by 40 C.F.R. § 1051.620, and California law [e.g., vehicle code §§ 27156 and 38391]. This product is sold only for use in connection with EPA certified, purpose-built, nonroad vehicles used solely for closed course, nonroad competition/racing and not used for any recreational purpose or on public highways or right of ways maintained by and open to the public. This product is sold only in connection with machines that do not fall under state and/or federal noise or emission standards/regulations. Purchasers who/that purchase this product represent and warrant that the product is purchased only in connection with EPA -certified, emission-regulations-exempt and noise-regulations-exempt competition/racing vehicles as interpreted under applicable state and/or federal law. Questions: Call Evolution Powersports at (715) 247-3862.

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