

## INSTALLATION INSTRUCTIONS YFZ450 & WR450 FLYWHEELS

### STEP 1: BEFORE YOU BEGIN

**WARNING:**

ALL TRAILTECH FLYWHEELS WILL CHANGE THE PERFORMANCE OF YOUR VEHICLE. It is highly recommended that you spend the time necessary to familiarize yourself with the performance changes, and become comfortable with the way the bike produces power with the new part.

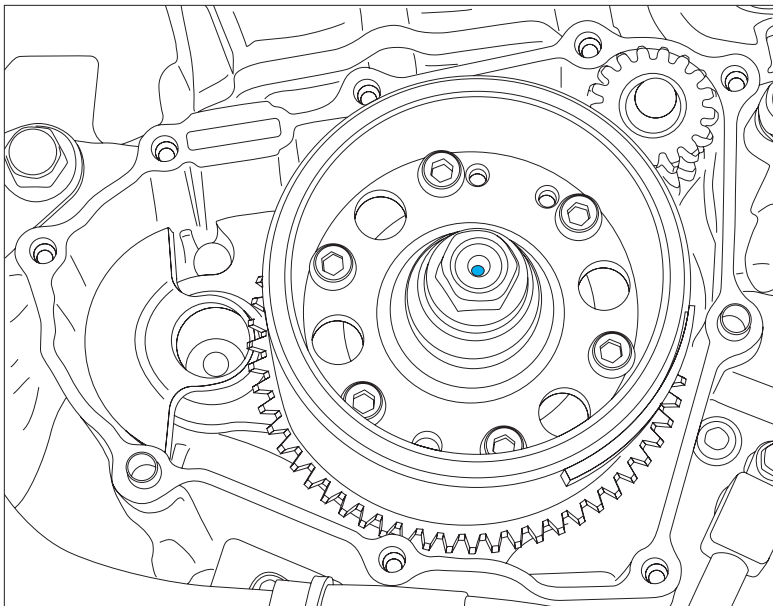
YFZ450: A YFZ flywheel puller [6500-P01] is required. A gasket [6500-G01] may be necessary.

WR450: A WR flywheel puller [6200-P01] is required. A gasket [6200-G01] may be necessary.

An impact ratchet is also highly recommended.

### STEP 2: INSTALL FLYWHEEL

1. Shut the gas supply off on the quad, then tip it up on its side. A small amount of gas will leak from the overflow tubes when the quad is first laid on its side.
2. Remove shifter pinch bolt & shifter.
3. Remove (2) M6 bolts holding the cover on the torque limiter gear assembly.
4. Remove the starter torque limiter gear assembly to expose sidecase bolts.
5. Disconnect the crankcase vent hose and lay it out of the way.
6. Remove (9) M6 bolts holding the side cover on.
7. Remove side case and place it out of the way. TAKE CARE - do not allow the two alignment pins to come loose from the side case. They CAN stay in the side case or in the main case, but you don't want them to fall out and get lost; or, even worse, dropped in the oil for later consumption by the motor!!
8. Use a 17mm socket and impact ratchet to remove the flywheel retaining nut. If an air ratchet is not available, hold the rear wheels while removing the 17mm flywheel nut.
9. Use flywheel puller to remove the flywheel. Be careful when removing the flywheel to remove the starter clutch with the flywheel.
10. Set the old flywheel on the bench and remove the (6) M6 allen bolts holding the starter clutch to the old flywheel.
11. Install the starter clutch on the new flywheel with the (6) M6 bolts, apply Loctite to each bolt & torque to 16Nm (11ft lbs).
12. Install the flywheel (spinning the starter gear helps the flywheel seat), and torque flywheel bolt to OEM torque specifications 65Nm (47ft lbs). Do not use thread locking compound.



13. Replace the side case. Use a new gasket if necessary (Trail Tech P/N 6540-G01). Torque side case bolts to 10Nm (7.2ft lbs). Do not over tighten these bolts!

14. Replace the starter torque limiter gear assembly, cover, vent hose and Torque to OEM specifications 10Nm (7.2ft lbs)

15. Replace the shifter. Make sure the pinch bolt threads in smoothly - cross threading is easy.

**Notes:**

There are no timing marks on your Trail Tech flywheel. If planning to do cam or valve modifications, use the OEM flywheel as a reference to copy the marks, or use the OEM flywheel to make the modifications, then install the Trail Tech flywheel.

**LIMITED WARRANTY**

TRAILTECH INC. WARRANTS TRAIL TECH FLYWHEEL PRODUCTS TO BE FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP UNDER NORMAL USE AND IF PROPERLY INSTALLED FOR A PERIOD OF SIX MONTHS FROM DATE OF PURCHASE. IF FOUND TO BE DEFECTIVE AS MENTIONED ABOVE, IT WILL BE REPLACED OR REPAIRED. THIS SHALL CONSTITUTE THE SOLE REMEDY OF THE PURCHASER AND THE SOLE LIABILITY OF TRAILTECH INC. TO THE EXTENT PERMITTED BY LAW, THE FOREGOING IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES OR REPRESENTATIONS WHETHER EXPRESSED OR IMPLIED, INCLUDED ANY LIMITED WARRANTY OF MERCHANTABILITY OR FITNESS. IN NO EVENT SHALL TRAILTECH INC. BE LIABLE FOR SPECIAL OR CONSEQUENTIAL DAMAGES.