HINSON
CLUTCH COMPONENTS
Racing

2004-2014 TRX450R Complete Clutch Kit

Thank you for purchasing Hinson Clutch Components. Please enjoy the high level of factory performance we have included in this package. Looking through these instructions will ensure your machine is on the way to its highest level of performance.

HC224

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1. Remove basket

- Remove the pressure plate and inner hub
- Remove the basket from the bike

Figure 1

2. Remove gear

- Center punch the heads of the rivets on the backside of the basket and drill the head of the rivet off so the retainer plate can come off (Figure 1)
- Or you can grind the heads of the rivets off of the back of the basket to remove the retainer plate (Figure 2)
- Remove the primary drive gear/ kick-starter gear assembly and the stock cushions (Figure 3)
- You will use these on your new Hinson basket
- The stock basket and stock retainer plate will not be reused

Figure 2

Figure 3

3. Install primary drive gear

- Install the stock primary drive gear and the stock cushions onto your new Hinson Basket (Figure 4), you are able to use a lubricant such as WD-40 to get the gear to slide on easier

Figure 4

Figure 5

4. Install retainer plate

- Clean the threads in the holes of the basket and the threads on the screws with contact cleaner or another suitable cleaner.
- Apply Red Loctite* generously to the cleaned screws and to the threads on the basket (Figure 5 and 6)
- Install the new retainer plate with the new 10X24-5/8” screws and tighten them to 3.3 ft/lbs (Figure 7)
- Using a hammer and punch, peen the screws where they come through the inside of the basket (Figure 8)

Figure 6

Figure 7

5. Re-install clutch assembley

- Re-install the basket and the thrust washer
- Re-install the inner hub and tighten the main shaft nut to manufacturers specifications (Figure 9)
- Re-install the clutch plates
- Separate plates, (2) marked black and (6) marked yellow..
- Install (1) of the plates marked black
- Install (7) steel and or aluminum plates, alternating with (6) yellow marked plates.
- Install (1) black marked plate
- Re-install pressure plate and springs.

Figure 8

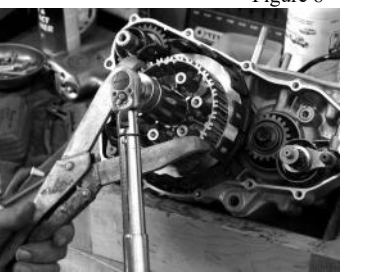
Figure 9

LOCTITE * It is crucial that you use RED Loctite #272. To insure proper bonding of the surfaces you need to clean the threads thoroughly with a contact cleaner, acetone, or another cleaning/degreasing solution. To make the bond even stronger you should use a Loctite primer. It is important that you use fresh Loctite since it has a shelf life. To ensure a permanent hold you need to put Loctite into the hole and also onto the screw. Keep in mind that you cannot use too much, you want complete coverage with the Loc-

Clutch tips

- Use Hinson clutch plates in your clutch for the best performance.
- Soak your clutch plates before you install them.
- Use a petroleum based 80 weight Oil
- Change the oil after each time you ride.
- Always maintain 1/8” to 1/4” of freeplay at the lever and perch.

Other parts available for this model

- H164 Pressure Plate
- H165 Inner Hub
- BTL154 Slipper Clutch
- FP154-8 Fiber Clutch Plates
- SP165-7 Steel Clutch Plates
- C224 Clutch Cover
- H224 2002-2011 TRX450 Clutch Basket
- H223 Works Style, Inner Hub & Pressure Plate Kit

Warranty information

All merchandise manufactured by Hinson Clutch Components is guaranteed against defects in material and workmanship for a period of six months from the original date of purchase. Use of Kevlar and carbon fiber clutch plates will cause excessive wear and will void your warranty. Hinson Clutch Components will not warranty any product that has been modified, or where the product became defective due to improper installation, improper use, or any other misuse of the product. Hinson Clutch Components shall not be liable for any other damages caused by any defects in the product, whether incidental, consequential or otherwise. You must return the warranty card to validate your warranty. If your product is defective we will, at our discretion, repair or replace the product after it is returned to Hinson Clutch Components for a warranty inspection. Any request for warranty assistance will require your original receipt or acceptable proof of purchase. Hinson Clutch Components liability is limited to the cost of repair or replacement of the product. All warranty items will be viewed and acted upon at the discretion of Hinson Clutch Components

Important! Warranty registration

Products must be registered in order to be eligible for warranty. Please log onto www.hinsonracing.com to activate your warranty registration. You will need to make note of your serial number, the small 8 digit number 180 degrees from Hinson Clutch Components on your part, as you cannot register your product without it.

THANK-YOU FOR BUYING HINSON CLUTCH COMPONENTS