HINSON CLUTCH COMPONENTS Racing

Complete Billetproof Conventional Clutch Kit
Yamaha YFZ450R

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.

HC413

1630 W. 11th St. Unit E, Upland, CA 91786
p 909.946.2942 | f 909.985.2301 | www.hinsonracing.com

1.Remove basket

- Remove the pressure plate and the inner hub (Figure 1)
- Remove the basket from the bike

Figure 1

2. Remove gear

- Grind off or center punch and drill the heads of the rivets on the back of the basket to remove the stock retainer plate, be careful not to damage the retainer plate as it will be reused (Figure 2 & 3)
- Remove the primary drive gear assembly and the stamped steel plate holding six coil springs and one belville spring (Figure 4)
- The stock clutch basket and small spacers the rivets went through will not be reused and can be discarded.

Figure 2

Figure 3

3. Installing primary drive gear

- Reinstall the stamped steel plate holding six coil springs and one belville spring onto the back of the Hinson basket (Figure 5)
- Reinstall the stock primary gear assembly over the springs (Figure 6), making sure that the gear is snug against the Hinson basket (Figure 6)

Figure 4

. Install the screws

- Clean the threads in the holes of the basket and the threads on the screws with contact cleaner or another suitable cleaner. (Figure 6)
- Apply Loctite primer to make the bond stronger (Figure 6)
- Apply Red Loctite* generously to the cleaned screws and to the threads on the basket (Figure 7)
- Install the new 5/16-18X3/4 screws and tighten them to 11 ft/lbs (Figure 8)
- Using a hammer and punch, peen the screws where they come through the inside of the basket

Figure 6

Figure 7

5. Re-install basket into bike

- Re-install the basket and the thrust washer
- Re-install the inner hub and tighten the main shaft nut to manufactures recommended specifications Figure 9)
- Install your new Hinson clutch plates, the pressure plate, Hinson springs and Hinson spring bolts.
- Inspect the o-ring and install your new Hinson clutch cover.

Figure 8

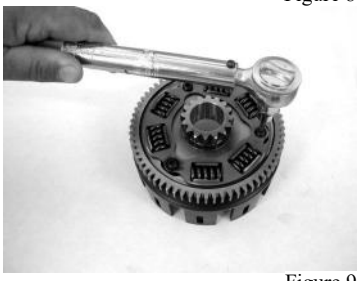

Figure 9

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 based10w-40 Engine 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

- H212 YFZ450 Pressure Plates
- H413 YFZ450 Clutch Basket
- BTL213 YFZ450 Slipper Clutch
- H198 YFZ450 Inner Hub
- C196 YFZ450 Clutch Cover
- FP196-8 Fiber Clutch Plates
- SP073-7 Steel Clutch Plates
- FP196-9 Fiber Clutch Plates (must have 9 plate pressure plate)
- SP198-8 Steel Clutch Plates (must have 9 plate pressure plate)
- CS214-6 Clutch Springs
- H214 Pressure Plate, Fiber Plates, Steel Plates, & Springs 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