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

- H268 CLUTCH BASKET
- BTL230 SLIPPER CLUTCH
- H238 INNER HUB/PRESSURE PLATE KIT
- FP230-8 FIBER CLUTCH PLATES
- SP232-7 STEEL CLUTCH PLATES
- C268 CLUTCH COVER
- CS230-6 CLUTCH SPRINGS

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 A HINSON CLUTCH COMPONET

HINSON CLUTCH COMPONENTS Racing

2008-2011 LTR450 COMPLETE BILLET CLUTCH KIT WITH SLIPPER CLUTCH

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
- Remove the basket from the bike

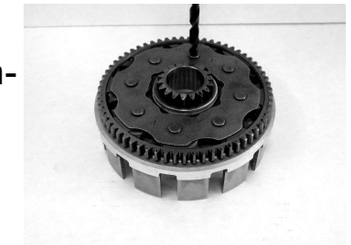

Figure 1

2. Remove gear

- Grind or center punch and drill the heads of the rivets off of the back of the basket to remove the stock retainer plate (see figure 1 and 2)
- Remove the primary drive gear and the stock cushions
- The stock basket and retainer plate will not be reused
- Press the kickstarter gear out of the basket (see figure 3)

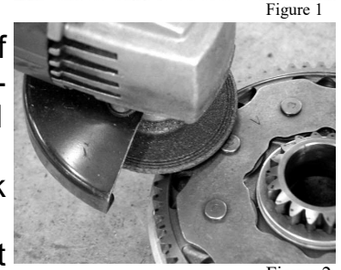

Figure 2

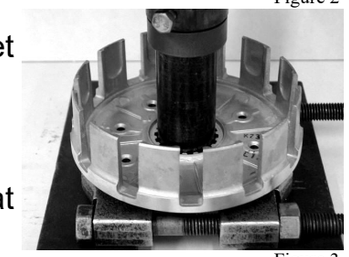

Figure 3

3. Install kickstarter gear

- Place the kickstarter gear in the freezer for at least 15 minutes
- Remove backing plate & screws along withset srews from kickstarter area.
- Place the Hinson basket (without screws and retainer plate) on a preheated electric range set on high for 3-4 minutes (see figure 4) or put the basket in a preheated oven at 400° for 10 minutes
- Remove the gear from the freezer and basket from the range and immediately drop gear into basket and apply weight downward to the gear to keep it in the basket, then allow the basket to cool down completely
- After installing the kickstarter Loctite the three set screws to secure kickstarter.

Figure 4

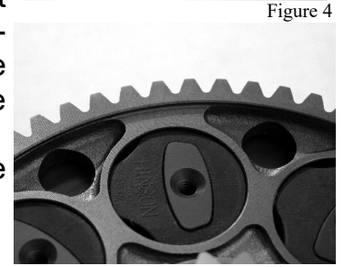

Figure 5

4. Install primary drive gear

- Install the primary drive gear and the cushions onto your new Hinson Basket with the recessed side up (Figure 5), use a lubricant such as WD-40 if necessary
- 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 6 and 7)
- Install the new retainer plate with the new 10X24-5/8" screws and tighten them to 3.3 ft/lbs (Figure 8)
- Using a hammer and punch, peen the screws where they come through the inside of the basket

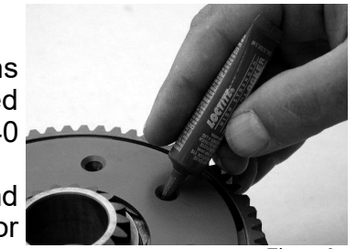

Figure 6

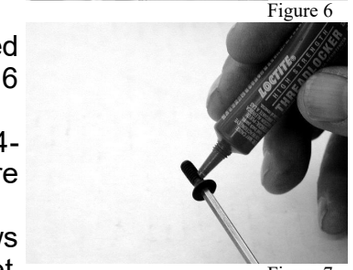

Figure 7

5. Re-install basket into bike

- Re-install the basket and the thrust washer
- Re-install your new Hinson inner hub and tighten the main shaft nut to manufacturers specifications
- Remove clutch plates from packaging and soak in oil for 12 hours.
- Identify (2) plates with (1) black ear marked on the outside diameter. These will go in first and last.
- Install (1) of the black marked fiber plates
- Install (7) steel plates, alternating with (6) other fiber plates
- Install (1) black marked fiber plate
- Re-install your new Hinson pressure plate, springs, bolts. and your new Hinson clutch cover.

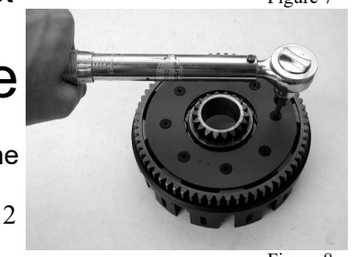

Figure 8

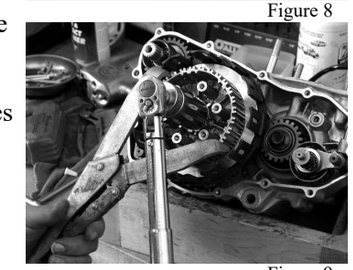

Figure 9

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-