



Complete Billetproof Conventional Single Spring Clutch Kit KX250/KX250X

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.

HC557-2101



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1. Remove basket

- Drain engine oil and remove cover
- Remove the disc spring, bolts, holders, stopper plate, and 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 and small flat spring under retainer plate will not be reused
- Press the center gear out of the basket (see figure 3)



Figure 2

3. Install kick starter gear

- Place the center gear in the freezer for at least 15 minutes
- Remove backing plate & screws along with set screws from center gear boss area.
- Place the Hinson basket (without screws cushions and retainer plate) on a preheated electric range and heat to 400deg (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 center gear Loctite the three set screws to secure the gear.

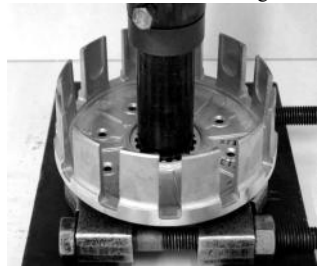


Figure 3



Figure 4

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



Figure 5

4. Install primary drive gear

- - they come through the inside of the basket

5. Re-install basket into bike

- Re-install the basket being sure that the primary gears and oil pump gears all mesh with mating gears when dropping in and that the basket is all the way down in the motor then install the thrust washer (note failure to insure basket gears mesh properly and is all the way down can cause oil pump gear to be broke in the motor)
- Re-install your new Hinson inner hub and washer tighten the main shaft nut to manufacturers specifications
- Reinstall the new Hinson fibers and steels starting with a fiber plate first. Next a steel plate, then alternating fiber steel ending with a fiber plate. (note do not reinstall your jutter spring and seat or damage will occur)
- Install Hinson pressure plate, Hinson spring, stopper plate, holders and bolts and torque to your manufactures spec. (Note you may need to push down on the pressure plate slightly to compress the slave cylinder to allow the pressure plate to properly engage the inner hub before you bolt up the spring)
- Be sure to keep the spring as centered as possible on the pressure plate when tightening bolts
- Install new Hinson clutch cover and be sure to inspect gasket for damage before reinstalling
- Refill with engine oil to your manufactures specification
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Figure 6



Figure 7



Figure 8



Figure 9

Crucial Inspection

If your clutch has a jutter spring and seat ring, located at the bottom of your clutch pack against the inner hub, these need to be removed

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 Loctite.

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 10w-40 weight oil
- Change the oil after each time you ride.

For Other parts available for this model
Visit Hinsonracing.com

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. 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 .

THANK YOU FOR BUYING A HINSON CLUTCH COMPONENT!