



Yamaha YZ250F Billet clutch Basket



1.Remove basket

- Remove the clutch cover, springs, pressure plate, clutch plates, inner hub and clutch basket.



Figure 1

2. Remove gear and starter clutch

- Remove the starter gear.
- Remove the stock torx bolts, these have Loctite so you will have to heat basket to break loose (Figure 1).
- Remove the starter clutch and retainer ring.
- Remove OEM retainer plate, cushions, and primary gear.
- Press the center gear out of the basket (Figure 2)

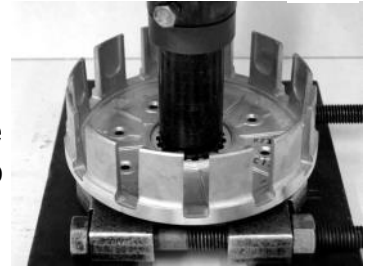


Figure 2

3. Install center gear

- Place the center gear in the freezer for at least 15 minutes
- Place the Hinson basket on a preheated electric range set and heat to 400° 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



Figure 3



Figure 4



Figure 5

4. Install primary drive gear & starter clutch

- Install the primary drive gear and stock cushions onto your new Hinson Basket with the flat surface facing down (Figure 3), use a lubricant such as WD-40 if necessary
- Clean the threads in the holes of the basket and the threads on your stock torx bolts with contact cleaner or another suitable cleaner.
- Install your stock backing plate letter side up (figure 4)
- Install your starter clutch assembly being sure to install the starter clutch in the right direction so it is captured in the retaining ring (Figure 5 & 6)
- Apply Red Loctite* generously to the cleaned torx bolts and to the threads on the basket (Figure 7)
- Install torx and tighten them to your manufacturers specifications
- Install your starter gear into the starter clutch rotating counter clockwise until it drops down and engages (Figure 8)



Figure 6



Figure 7



Figure 8

5. Re-install basket into bike

- Re-install the basket and the thrust washer
- Re-install the inner hub, seat washer, conical washer with the side marked out facing out.
- Reinstall the main shaft nut torquing to your manufacturers specification being sure to ping the nut in the area of the cutout on the main shaft (Figure 9)
- Re-install the clutch plates, and the pressure plate (being sure to align the timing marks), clutch springs and bolts
- Reinstall the clutch cover being sure to inspect the gasket first.



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 Loctite.

Clutch tips

- Use OEM clutch plates in your clutch for the best performance.
- Soak your clutch plates before you install them.
- We recommend using a petroleum based engine oil
- Change the oil after each time you ride.
- Always maintain 1/8" to 1/4" of free play at the lever and perch.

For other parts available for this model
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Warranty information

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