Technical Service Bulletin

Cobra Motorcycle Mfg.
240 Uran Street
Hillsdale MI, 49242
(517) 437 9100 phone
(517) 437-9101 fax

TSB0806: Hub for Cobra Friction Drive (CFD or 'Slipper') replacement for 2006 King & CM

January 23, 2006

Early 2006 King & CM units had CFD (slipper) hubs of improper material that allowed them to wear quickly. Owners of these models have been contacted and sent a free replacement hub. Below are instructions for replacing the hub.

Tools recommended for clutch service:

- Universal clutch puller- a universal puller that pulls the clutch, main drive gear and rotor. (Part # MCMUTL70).
- 5mm T-handle
- Clutch nut removal tool (ECMU0082)
- 19 mm socket
- ***Cobra 3 Shoe Clutch Milk*** **(Part # MCMUGF01).**

Replacement:

1. Drain the engine transmission oil and remove the clutch cover.
2. Remove the three shoe clutch by taking off the clutch nut (not left hand thread) on the end of the crankshaft with the clutch nut removal tool.
3. Attach the Universal Puller. There are three 6mm clutch puller holes located on the ends of the center hub. (figures 1 & 2) You must use a *draw type puller* to remove the clutch.

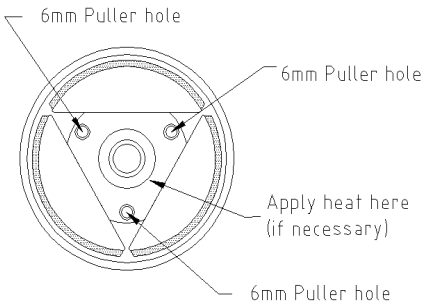


Figure 1

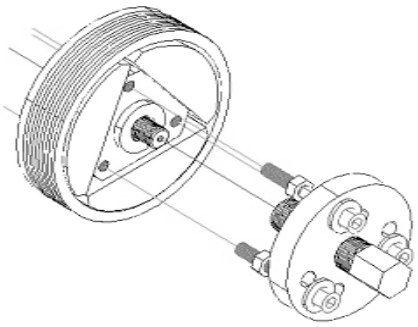


Figure 2

Cobra Motorcycle Mfg.
240 Uran Street
Hillsdale MI, 49242
(517) 437 9100 phone
(517) 437-9101 fax

4. Pull off the clutch basket by hand along with the shim (s) behind.
5. Remove the blue **LEFT HAND thread** CFD nut with 19mm socket.

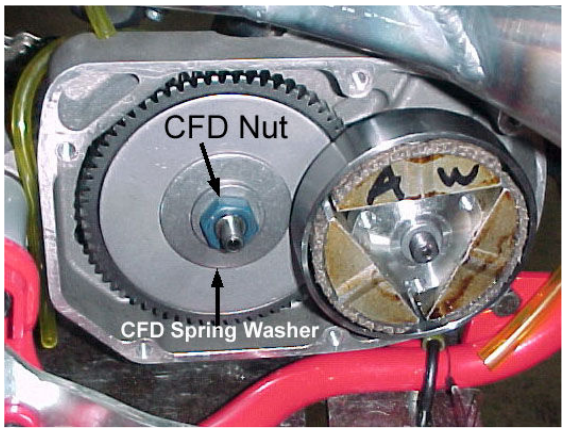


Figure 3

CAUTION:
The CFD nut has left hand threads requiring Clockwise rotation for removal.

NOTE:
It may be handy to place a wooden handle through the rear wheel to keep the shaft from rotating while unscrewing the CFD nut (figure 4).

Figure 4

6. Once the blue CFD nut has been removed, by hand, pull off the flat washer, and CFD spring washer (figure 3)

Cobra Motorcycle Mfg.
240 Uran Street
Hillsdale MI, 49242
(517) 437 9100 phone
(517) 437-9101 fax

7. Remove CFD gear, two pressure plates, and two friction papers (Figure 5).

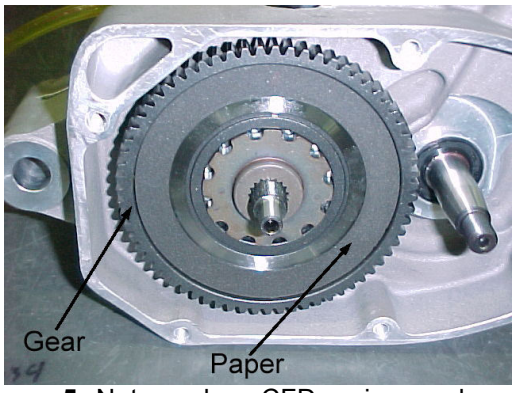


Figure 5. Nut, washer, CFD spring washer, & outer pressure plate removed.

8. Remove the CFD hub and slide on the new one (old style has holes, new style does not). Figure 6

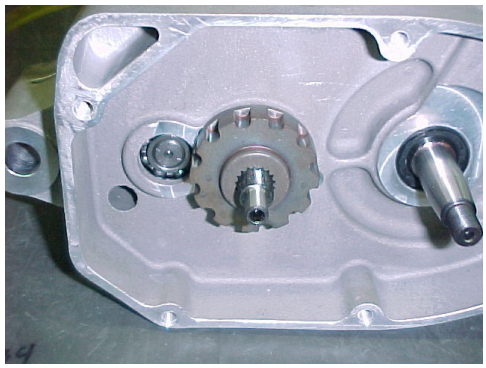
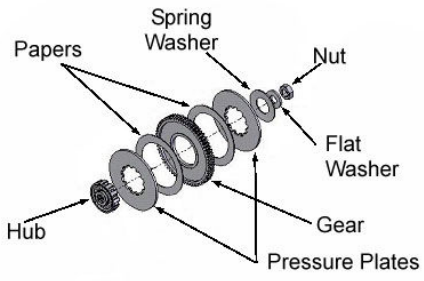


Figure 6. New CFD hub, (Old style has visible thru holes)

9. Reinstall inner pressure plate (both are physically the same), paper, gear, paper, outer pressure plate, CFD spring washer, and then the flat washer.



Cobra Motorcycle Mfg.
240 Uran Street
Hillsdale MI, 49242
(517) 437 9100 phone
(517) 437-9101 fax

Figure 7. CFD parts breakdown

10. Install the blue CFD nut (remembering that it is left hand thread) and torque to 75 Nm (55 ft-lb).
11. Reinstall the clutch basket shims, basket & clutch per owners' manual.
12. Reinstall the clutch hub nut and torque to 47 Nm (35ft-lb).
13. Reinstall clutch cover and fill with 8 oz Cobra Clutch Milk.