Technical Service Bulletin

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

TSB0811 V3 CFD Refresh Kits

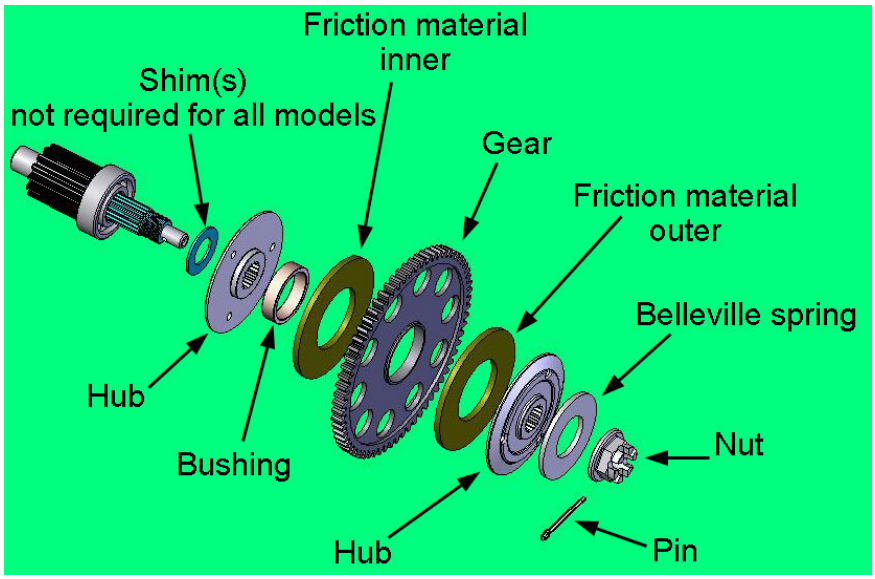
Having been in the field for seven months, the V3 CFD has been holding up well. Typically there has been an adjustment required after the first or second ride, and another adjustment required sometime after the 3rd through 5th rides. After that they have remained strong with an adjustment ever 8-10 rides or so.

Cobra now has refresh kits for available. Call Customer Service for pricing. Each kit includes:

- Pair of friction discs
- New brass ring
- 10 pack of cotter pins
- Belleville spring washer

Kit EKMU0034	Kit EKMU0032	Kit EKMU0033
2006 through 2010	**Early 2011**	**Late 2011 & 2012**
ECMU0239 FRICTION THIN	ECMU0249 FRICTION THICK	ECMU0249 FRICTION THICK
ECMU0315 BUSHING 5.5 MM	ECMU0315 BUSHING 5.5 MM	ECMU0305 BUSHING 7MM
ECMU0239 FRICTION THIN	ECMU0239 FRICTION THIN	ECMU0249 FRICTION THICK
ECMU0308 BELLEVILLE	ECMU0308 BELLEVILLE	ECMU0308 BELLEVILLE
HKCP0001 COTTER PIN 10 PACK	HKCP0001 COTTER PIN 10 PACK	HKCP0001 COTTER PIN 10 PACK

Parts breakdown



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Assembly Instructions

Drain the oil, remove the clutch cover, clutch, and old CFD
Install **shim(s)** if required
Install one of the hubs (flat knurled side facing out)
DOES NOT MATTER WHICH ONE
Install the bushing (it will pilot on the hub)
Install inside friction material piloting on the bushing (Pre-soaked in oil for a minute or more)
Install the gear (there is a lip on the gear that must go inside the friction material previously installed)
Install the outer friction material (Pre-soaked in oil for a minute or more)
Install the other hub (flat knurled side facing the friction material)
Install the Belleville spring
Install the left hand thread castle nut and torque to 32 Nm (24 ft-lb)

CAUTION: Torque values greater than this at this point will damage the hubs.

Now continue to tighten (counter-clockwise) the nut just enough to align the hole in the shaft with the next slot in the castle nut
Install cotter pin and bend over the arms so that they wrap around the nut

To check slip torque

1. Install the CFD gear stop tool (EAMU0004)
2. Install the Sprocket Socket CFD torque checking tool (MCMUTL15) on the sprocket and secure with the supplied screw and ensure that the tool is completely up against the sprocket
3. Verify with a torque wrench applied to the Sprocket Socket that the V3 CFD does not slip below 81 Nm (60 ft-lb) when tested in a clockwise direction.

CAUTION:
Do not check earlier versions of the CFD with this method! The torque valves required at the sprocket would be much higher

HINT:
This V3 CFD torque checking method is possible to do with the chain on. Just put the bike on a stand so that the rear wheel can turn freely.

HINT:
The CFD hubs can be removed with the universal puller (MCMUTL70) that is used to remove the clutch arbor.