



- ◆ Install the spring cups into the pressure plate, followed by the springs, spring retainers, and socket head cap screws, as shown at left.
- ◆ Tighten cap screws until they bottom out.

The final step of clutch installation is the adjustment of the clutch itself.

- ◆ Tighten adjuster screw until it lightly seats on the clutch pushrod.
- ◆ Back screw out 1/2 turn and lock in place using the jam nut provided, using red loctite on threads.

FINAL ASSEMBLY

- ◆ Install the nosepiece using the 1/4"-20 x 3/4" flat socket head cap screws.

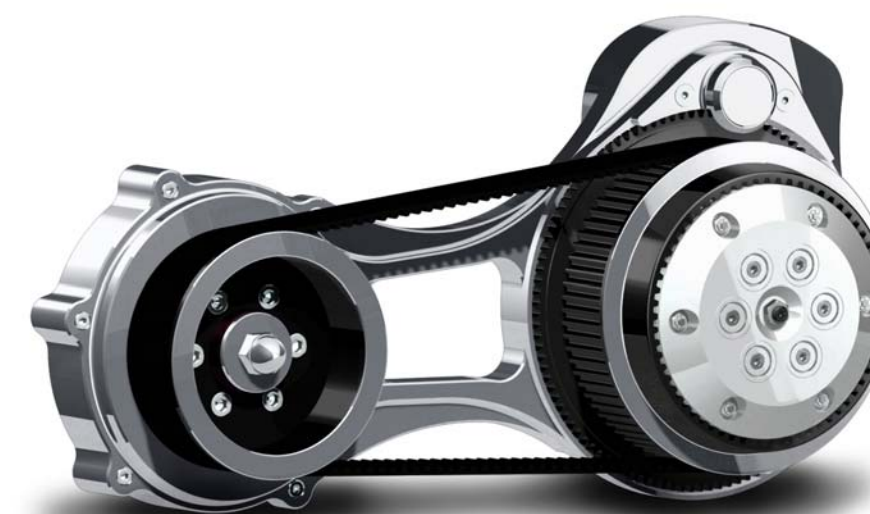


INSTALLATION COMPLETE!



**'07-UP HD
OPEN PRIMARY
BELT DRIVE SYSTEM**

ASSEMBLY MANUAL



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OVERVIEW

This manual will cover the following topics:

- ◆ Motor Plate & Belt Drive Installation
- ◆ Required Modifications
- ◆ Clutch Buildup & Installation

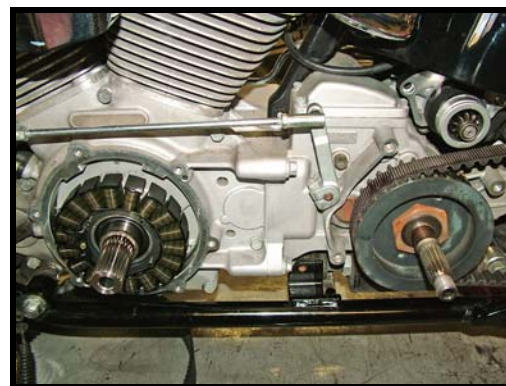
MOTOR PLATE INSTALLATION

On the right is an image of a H-D with its primary stripped. To install your new Cyclone belt drive system, the following tasks must first be performed:

- ◆ Drain the primary oil and remove the outer cover.
- ◆ Remove the stock primary chain drive.
- ◆ Unbolt the starter, leaving it in place.
- ◆ Remove the stock inner primary.

Note: Tech Open Primary Systems are designed to fit stock applications. Aftermarket frames and/or engine shafts may cause installation difficulties.

'07-UP HD OPEN PRIMARY BELT DRIVE SYSTEM ASSEMBLY MANUAL



The stock rotor needs to have the compensator assembly machined off to be used with this kit. Tech Cycle can provide you with a modified rotor or machine your stock unit to fit.

- ◆ Place the modified rotor on the engine mainshaft.
- ◆ Remove the stock belt sprocket from the transmission mainshaft (this requires removing the race pressed on the mainshaft using the proper puller tool).
- ◆ Bolt on the new sprocket provided by Tech.
- ◆ Proceed to bolt on the One-Piece Motorplate using the supplied hardware, and be sure to reuse the stock spacer in-between the engine and motorplate.

Note: To facilitate starter reinstallation, be sure to locate the starter housing into the backside-face of the motorplate prior to completely fastening the plate to the bike — if the starter does not slide in with the plate loose, it will not go together once the plate is fully tightened.

Your setup should now resemble the image at right.

- ◆ Bolt the starter into the backside of the plate., making sure it is fully seated against the flange.

It is now time to install the belt drive.



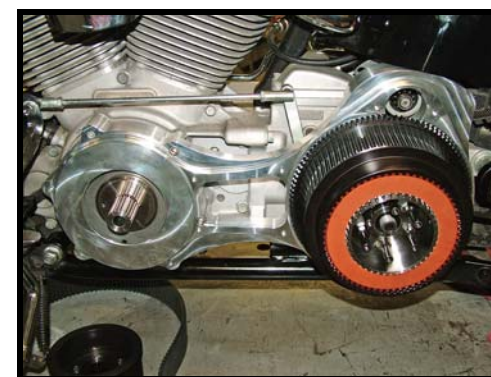
CYCLONE BELT DRIVE INSTALLATION

On the right is an image of a Cyclone Clutch as it comes from the factory. However, in order to install your new belt drive, it must be disassembled:

- ◆ Remove the cap screws holding the clutch springs.
- ◆ Remove the spring retainers, springs, and spring cups from the pressure plate.
- ◆ Remove all clutch plates.

Note: Cyclone Belt Drives are designed to fit stock applications. Aftermarket transmissions may cause minor installation difficulties.

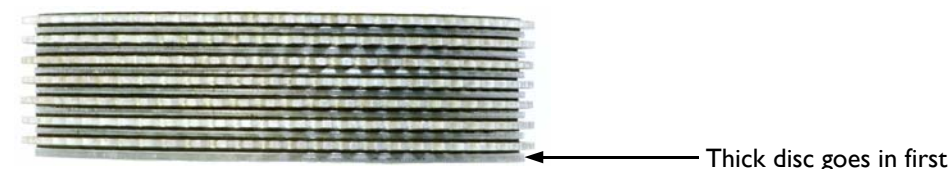
- ◆ Install rear pulley/clutch basket assembly onto transmission mainshaft.
Note: Nut uses **left-hand thread**. Use **red** Loctite on shaft threads and torque nut to H-D specifications.



- ◆ Place the primary belt over the rear pulley, sliding the front pulley through the belt and onto the front mainshaft.
- ◆ Install stock washer and bolt through front pulley and into front mainshaft.
Note: Use **red** Loctite on shaft threads and torque to H-D specifications.
- ◆ Using a long straight edge, check the pulleys' alignment. Any misalignment can be corrected with the supplied shims installed behind front pulley.
- ◆ Rotate the motor using a socket wrench to check that the belt is tracking straight and not making contact with the motor plate.

CLUTCH BUILDUP & INSTALLATION

- ◆ Install clutch plates starting with the thickest steel plate and then alternating fiber and steel until all plates have been installed. A fiber plate should be the last disc to go on.



- ◆ The pressure plate must be aligned with the inner clutch hub to work correctly.
- ◆ Locate the small dot on each part — the dots should lie on top of one another when installed.
- ◆ With the dots aligned, place the pressure plate into the clutch basket.
- ◆ If the plate does not sit properly, recheck the dot alignment.

