



## INSTALLATION FOR BALL BEARING CHAIN DRIVE



BDL Ball Bearing Clutch Basket  
Fits 1998 to 2006 Big Twin



BDL Ball Bearing pressure plate with special diaphragm  
and retainer



BDL Ball Bearing chain drive assembly

Install clutch basket on to transmission main shaft, install 3-.078" steels in first then alternate fiber, steel and ending with a fiber. (Clutch pack is 8-.078" steels and 6 fibers)

Place diaphragm over ball bearings on pressure plate, place retainer with beveled side down over diaphragm and install the 4 shoulder bolts through retainer into clutch hub. Be sure that bolt holes in retainer line up with the rounded holes in diaphragm for proper fitment.

Adjust clutch as usual with special adjustment screw supplied with kit.

**Part No. CDB-2-90** Clutch basket complete as pictured above  
**Part No. CDB-1-90** Clutch basket complete, adjuster shoe with bracket, diamond primary chain and 25 tooth front sprocket

*THIS DRIVE IS TO BE INSTALLED BY A QUALIFIED HD MECHANIC. FAILURE TO FOLLOW THESE INSTRUCTIONS WILL VOID OUR WARRANTY AND LIABILITY FOR THIS PRODUCT.*

1. BDL's drives are to be used with stock OEM parts. Use of aftermarket parts may require other modifications or may cause starter and alignment problems (aftermarket starters may cause premature wear on our starter gear).
2. Fill our BDL's registration card.
3. A starter pinion gear is enclosed with and for use on all 1994 up models only. You must replace the stock pinion gear with with BDL's on all 1994 up models.
4. You must inspect the drive after the first 100 miles and every 2500 miles after for proper chain tension.
5. Disconnect battery, remove spark plugs and support bike so it will not fall.
6. Remove primary drive if you are replacing an existing drive (refer to HD manual).
7. Inspect new drive and check for fit. Install both sprockets and make sure motor and transmission shafts are square with each other. Align sprockets using a 5/16" drill rod or other sturdy straight edge to check for proper alignment. Remove sprockets at this time.
8. Install chain adjuster assembly if this is a new installation.
9. Re-install front sprocket and or compensator, and rear clutch basket assembly with chain.
10. Tighten engine nut and transmission main shaft nut to HD specifications using red Loctite®.
11. Adjust chain to proper tension (refer to HD manual).
12. Soak clutch plates for 15 minutes. We recommend AFT type F or check the HD manual for whatever is recommended for a clutch lubricant. **Be sure whatever you use will not interfere with clutch release such as high viscosity synthetic oil.**
13. Re-install clutch pack: One .120" steel (EDP-200) first then alternate clutch fiber and steel ending with a steel. Our Ball bearing clutch pack is 1-.120" steel, 7-.078" steels and 7 fibers.
14. Place diaphragm over ball bearings on pressure plate, place retainer over diaphragm with beveled side down over diaphragm and install the 4 shoulder bolts through retainer into clutch hub. Be sure that the bolts in retainer line up with the rounded holes in the diaphragm for proper fitment.
15. Adjust clutch with adjusting screw supplied with kit, to HD specifications. When clutch is adjusted tighten jam nut to lock screw in place.
16. Install outer primary cover with gasket, tighten all primary cover bolts to HD specifications.

17. Fill primary with ATF type F or whatever lubricant desired except high viscosity synthetic oil. Check HD manual for proper fluid level.

**If you have any questions, call 714-685-3333**