# This bearing is a O.E.M. self aligning design

#### **NOTICE:**

Bearing may appear to be offcenter, however this is part of the feature, and will center during use

198MI005

02/20/06 12:05

# **IMPORTANT**

FOR ALL FORD MOTOR VEHICLES USING THROW OUT BEARING PART NUMBER N1714 OR O.E.M. TYPE EQUIVALENT DESIGN (PICTURED BELOW), WHICH IS A SELF ALIGNING TYPE THROWOUT BEARING.

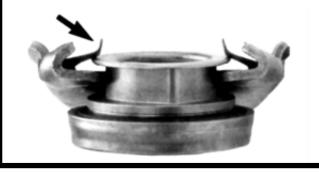
**NOTE:** SELF ALIGNING TYPE THROWOUT BEARINGS WHEN REMOVED FROM THE BOX MAY APPEAR TO BE OFF CENTER, HOWEVER, THEY ARE NOT DEFECTIVE AND WILL PROPERLY ALIGN DURING USE.

THE FORK SPRING CLIPS MUST BE INSTALLED BETWEEN THE THROWOUT BEARING COLLAR FLANGES. IF THE CLIPS ARE INSTALLED ABOVE THE TOP FLANGE AS SHOWN BELOW, PROPER ADJUSTMENT CANNOT BE MADE.

#### CORRECT



#### INCORRECT







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### **IMPORTANT**

03/30/06 08:18

# **IMPORTANT**

YOUR NEW CENTERFORCE® CLUTCH ASSEMBLY AND FLYWHEEL HAVE BEEN DESIGNED TO BE USED WITH LOCATING DOWEL PINS.

THE ALIGNMENT DOWEL PINS ARE USED TO PROPERLY LOCATE THE PRESSURE PLATE TO THE FLYWHEEL FOR BALANCE PURPOSES AS WELL AS TO ADD PRESSURE PLATE TO FLYWHEEL SHEAR STRENGTH. THE ALIGNMENT DOWEL PINS SHOULD ALWAYS BE REPLACED IF THEY ARE DAMAGED, BROKEN OFF, OR MISSING FROM THE FLYWHEEL.

FAILURE TO INSTALL OR REPLACE THE DOWEL PINS AS REQUIRED MAY RESULT IN CLUTCH VIBRATION, IMPROPER CLUTCH OPERATION, AND POSSIBLE CLUTCH FAILURE WHICH MAY VOID THE WARRANTY!







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### **IMPORTANT**

02/07/13 02:20

# **IMPORTANT**

#### FORD CARS AND TRUCKS

1979-1997

ALL FORD TRANSMISSIONS WITH
ALUMINUM INPUT SHAFT RETAINER BEARING COLLAR

CLUTCH OPERATION PROBLEMS MAY OCCUR DUE TO THE INPUT SHAFT BEARING RETAINER COLLAR WEARING PREMATURELY, CAUSING THE THROWOUT BEARING TO BIND AND MISALIGN. THIS BINDING CAN RESULT IN ERRATIC CLUTCH OPERATION, INCLUDING HIGH PEDAL EFFORT, IMPROPER CLUTCH RELEASE OR ENGAGEMENT, OR CLUTCH CHATTER.

WHEN INSTALLING A NEW CLUTCH ASSEMBLY, IT IS IMPORTANT TO CHECK THE INPUT SHAFT BEARING RETAINER COLLAR, THE THROW OUT BEARING ARM, AND THE THROW OUT BEARING PIVOT BALL OR BRACKET FOR SIGNS OF WEAR. IF THEY SHOW ANY SIGNS OF WEAR, THEY WILL NEED TO BE REPLACED.

SOME OTHER SYMPTOMS OF A WORN INPUT SHAFT RETAINER BEARING COLLAR ON A HYDRAULIC SYSTEM OTHER THAN PREVIOUSLY MENTIONED, ARE CRACKING OF THE FIREWALL AROUND THE CLUTCH MASTER CYLINDER MOUNTING DUE TO FLEXING. THIS IS A COMMON OCCURRENCE ON LATE MODEL TRUCKS.

ON CABLE OPERATED SYSTEMS, IF THE INPUT SHAFT RETAINER BEARING COLLAR IS WORN, THE CLUTCH ADJUSTMENT MECHANISM MAY NOT PROPERLY OPERATE. THIS MAY CAUSE IMPROPER CLUTCH ADJUSTMENT, RESULTING IN IMPROPER RELEASE OR SLIPPAGE DUE TO THE ASSEMBLY NOT FULLY ENGAGING.

TO DETERMINE IF THE BEARING RETAINER COLLAR AND RELATED ITEMS ARE WORN AND NEED REPLACEMENT, CHECK FOR ANY SCORING OR WEAR THAT RUNS THE LENGTH OF THE RETAINER BEARING COLLAR OR WEAR THAT ENCIRCLES THE COLLAR. INSPECT THE CONTACT POINTS ON THE THROW OUT BEARING ARM WHERE THE THROW OUT BEARING MAKES CONTACT, THE SOCKET WHERE THE PIVOT BALL OR BRACKET PIVOTS IN THE THROW OUT BEARING ARM FOR UNEVEN WEAR OR GALLING. CHECK THE PIVOT BALL OR BRACKET FOR WEAR OR DAMAGE. IF ANY ONE OF THE ITEMS ARE WORN, ALL OF THE PARTS SHOULD BE REPLACED AT THE SAME TIME ( INPUT SHAFT RETAINER BEARING COLLAR, THROW OUT BEARING ARM, THROW OUT BEARING PIVOT BALL OR BRACKET, BUSHINGS, ETC.).

WHEN REPLACING THE INPUT SHAFT BEARING RETAINER COLLAR, REMEMBER TO REPLACE THE INPUT SHAFT SEAL AND GASKET (WHERE APPLICABLE) TO AVOID ANY LEAKAGE AND ASSURE PROPER CLUTCH OPERATION.





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### **IMPORTANT**

08/10/15 11:47

# **IMPORTANT**

# Please follow these instructions to maintain the warranty of your Centerforce® product!

**Flywheels:** All Centerforce<sup>®</sup> clutches need to be installed on a clean, properly resurfaced or brand new flywheel. Flywheels must be within original equipment specifications. Centerforce clutches are designed to be used on flywheels made of cast iron, steel, or aluminum with <u>steel</u> inserts.

**Break-In:** All Centerforce clutches require a break-in period of 450-500 miles of stop-and-go street driving before applying full engine power. This period is required to properly seat the disc with the pressure plate and flywheel.

**Balance:** All Centerforce clutches are balanced from the factory to meet or exceed Original Equipment (O.E.) specifications. Balancing with the Centerforce weights installed on the clutch assembly may cause an out-of-balance condition. Removing the weights without permission from Centerforce may void the warranty.

<u>Centrifugal Weight System:</u> If your new Centerforce clutch is equipped with the patented centrifugal weight system, do not remove the ring, weights, or spring wire retaining the weight system to the diaphragm fingers. If your Centerforce clutch does not include the centrifugal weight system, it is because there is not sufficient clearance for Centerforce to safely & effectively install the centrifugal weight system.

Aftermarket Hydraulic Release Bearings: When using an aftermarket hydraulic release bearing it is important to check for proper clearance between the bearing and the centrifugal weight system. Some aftermarket hydraulic bearings have an anti-rotator pin that may come into contact with the centrifugal weight system.

Failure to follow the above procedures will void your warranty and may result in decreased performance and/or premature wear!

**Questions? Please contact the Tech Department at Centerforce** 





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#### **10mm Pressure Plate Bolts**

Centerforce does not require you to use any type of thread locking compound for the Pressure Plate bolts. If you decide to use a thread locker compound on the Pressure Plate bolts, just one SINGLE drop is adequate.

# DO NOT use a washer with this pressure plate bolt.

Tighten all bolts evenly, ¼ turn at a time in a crisscross pattern until pressure plate is completely drawn-up to the flywheel.

Final torque to: 47 - 52 ft/lbs.

**Note:** These specifications apply only to the fasteners supplied by Centerforce.

I21MI034 **CENTERFORCE TECH. LINE (928) 771-8422** 

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