IMPORTANT

2005-10 FORD MUSTANG, GT, COBRA & SHELBY

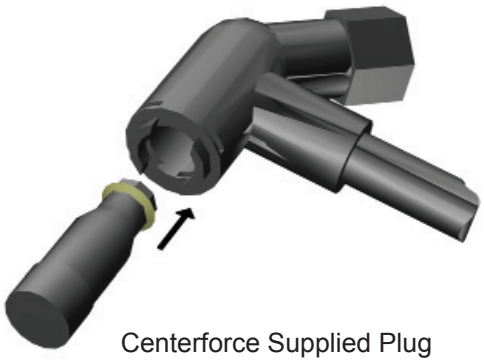
Hydraulic Clutch System Instructions:

You will need the following before starting:

a) New Ford Release Bearing and Slave Cylinder assembly.
b) 12 oz. Motorcraft DOT 3, High-Performance clutch/brake fluid.
c) A hand-type vacuum pump and rubber seal or plug.

IMPORTANT: When changing your clutch the hydraulic release system must be serviced in the following manner:

1) DO NOT depress the clutch pedal while the hydraulic clutch lines are disconnected. We recommend that you place a suitable spacer (IE; block of wood or rolled towel) under the clutch pedal to keep the pedal in its most upward position and to prevent any movement during the clutch installation process.
2) Replace your hydraulic slave cylinder and release bearing as a matched set. Use only a new Original Equipment clutch release bearing and slave cylinder available from your local Ford Dealer.
3) Important note: once the hydraulic line has been disconnected from the old Slave Cylinder assembly at the transmission bellhousing, the clutch line will continue to leak fluid – **have ready the enclosed black plastic plug to temporally stop the fluid flow during the clutch installation process.**
4) The 2005-09 Ford Mustang clutch fluid reservoir is shared with the brake reservoir – use only Ford Motorcraft approved DOT 3, High-Performance fluid when servicing your hydraulic clutch or brake system. The use of any other fluid may cause clutch and/or brake problems!



Centerforce Supplied Plug

5) Upon re-installation of your transmission, make sure all of the clutch hydraulic lines and bleed screws (when applicable) are correctly seated and tight.
6) Make sure the clutch pedal is in the most upward position.
7) Remove reservoir cap and fill the brake/clutch reservoir with the specified fluid to the MAX mark.
8) In order to properly bleed this hydraulic system, you must use a hand-type vacuum pump available from most auto parts stores or specialty tool stores.
9) Use a round rubber stopper (50mm in diameter) or suitable flat rubber cap to seal against the fluid reservoir opening – either type of seal requires a hole in the center in which the vacuum will be applied.
10) Holding the vacuum cap seal in place on the reservoir, operate the vacuum pump to draw 20 inches of vacuum. Hold this vacuum for one minute then, quickly relieve the vacuum.
11) Check and fill the brake/clutch reservoir with the specified fluid to the MAX mark as needed. Install the reservoir cap.
12) Depress and release the clutch pedal 10 to 15 times.

Repeat Steps 6 through 12 two additional times or until the clutch pedal effort is consistent and

"NOTE" Centerforce tip sheets are for general reference only. Please refer to your owners manual for vehicle specifications.

IMPORTANT

Please follow these instructions in regards to the installation and use of your new Centerforce DFX

Flywheels: Be sure to install your new Centerforce DFX clutch on a clean and properly resurfaced or brand new flywheel. Centerforce recommends DFX to be used in conjunction with an aftermarket Billet Steel or Billet Aluminum (with steel insert) flywheel. Nodular Cast Iron OE flywheels are also approved. Gray Cast Iron OE flywheels are NOT recommended for use with Centerforce DFX (If you are unsure of what type of cast flywheel you have please call the tech office).

Break-In: The Centerforce DFX series clutch will perform best after a minimum 100-mile break-in period. Stop and go type driving is best for this procedure. Please do not apply full engine power or excessively slip the clutch during the break-in period. This period is required to properly seat the disc with the pressure plate and flywheel friction surfaces.

Centrifugal Weight System: If your new Centerforce DFX clutch is equipped with the patented Centerforce centrifugal weight system, do not remove the ring, weights or retaining spring wire that attaches the weight system to the clutch diaphragm fingers. If your Centerforce DFX clutch does not include the centrifugal weight system, it is because there is not sufficient clearance for Centerforce to safely and effectively install the centrifugal weight system for your application. In these cases Centerforce has made other, internal modifications to improve the clutch holding capacity.

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.

Due to its positive engagement characteristics, the Centerforce DFX clutch is designed primarily for competition use. However, DFX can also be used in high-powered street or dual-purpose vehicles with excellent results. Please be advised that the increased holding capacity of this clutch can contribute to clutch chatter and/or cause an audible noise during operation.

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

CENTERFORCE® THE PERFORMANCE CLUTCH

CENTERFORCE DUAL FRICTION®

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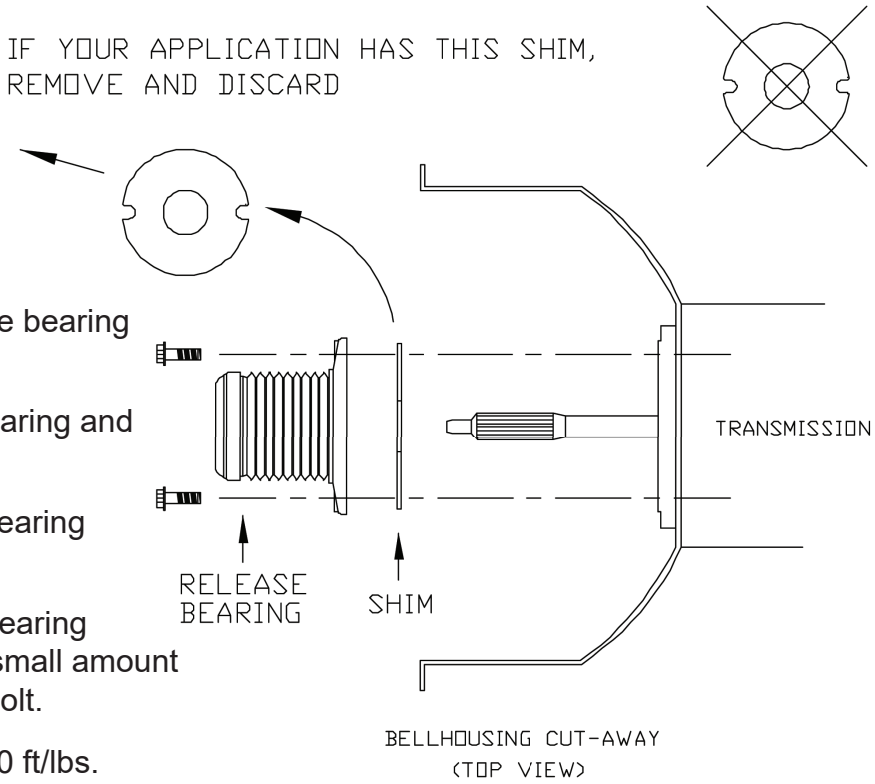
DO NOT USE ANY AFTERMARKET RELEASE BEARING SHIMS!



1) Remove the two release bearing retaining bolts.
2) Remove the release bearing and shim.
3) Re-install the release bearing without the shim.
4) Re-Install the release bearing retaining bolts using a small amount of threadlock on each bolt.
5) Torque each bolt to 8-10 ft/lbs.

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Customers requiring 24-month SFI activation.

Thank you for purchasing clutch components certified by Centerforce to SFI Specification 1.1. Some competition sanctioning bodies require clutch components to be SFI certified every 24 months. The enclosed clutch component(s) contain the official SFI decal and corresponding serial number etched into the part. Please note that the component SFI ACTIVATION DATE is also etched near the SFI serial number. SFI 24-month certification STARTS from this SFI ACTIVATION DATE. Centerforce clutch components have an indefinite shelf life, however, due to the chain of commerce, the enclosed components may arrive to customers beyond this initial SFI ACTIVATION DATE. If you need full 24 months SFI certification to conform to competition rules, Centerforce can issue a new SFI serial number and SFI ACTIVATION DATE free of charge. To request a fresh SFI ACTIVATION DATE from Centerforce, you MUST contact Centerforce prior to installation and supply a copy of your proof of purchase. This request MUST be submitted within 30 days of purchase. If you require this service, please completely fill out the enclosed SFI activation form and return to Centerforce with a copy of your proof of purchase. Forms and receipts can be sent via Mail, Fax, or Email. If needed, SFI activation forms can also be obtained from our website: www.centerforce.com. Should you have questions or if you require further information please contact Centerforce customer service at (800) 932-5882. Information specifically about SFI certification can be found at www.sfifoundation.com (Reference SFI Clutch/Flywheel Specification 1.1).

IMPORTANT! This activation service is ONLY applicable to new components within 30 days of purchase. Centerforce components that have been SFI certified and used in competition MAY be eligible for re-certification but ONLY after the component(s) have been returned to Centerforce for inspection. Please obtain a Return Merchandise Authorization (RMA) number for inspection and re-certifications. Fee for this service may vary.

If you are NOT competing under specific sanctioning body rules, then the SFI activation date is not relevant to your application or your vehicle use. In this case feel free to use your Centerforce product regardless of the SFI activation date.

Ph: (800) 932-5882
Fax: (928) 771-8322
Email: sales@centerforce.com

EMAIL FORM

Centerforce Clutches
2266 Crosswind Dr.
Prescott, AZ 86301

Email Addres: _____

Full Name: _____ Date Purchased: _____

Street Address: _____ Part #: _____

City: _____ Current SFI #: _____

State: _____

Zip: _____

Country: _____

Phone: _____

Note: A copy of your receipt/proof of purchase is required to obtain an updated SFI Activation Date and SFI Number.

Please do not write below this line, completed by Centerforce!

New SFI #: _____

Date Certified: _____

Certifed By: _____

Keep this for your records once the SFI Label is affixed.

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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