

IMPORTANT

GENERAL BELLHOUSING ALIGNMENT INSTRUCTIONS

BELLHOUSING ALIGNMENT IS CRUCIAL FOR PROPER CLUTCH FUNCTION AND RELIABILITY OF THE RELATED COMPONENTS. DUE TO MANUFACTURING TOLERANCES OF ENGINE BLOCKS AND BELLHOUSINGS, IT IS POSSIBLE FOR THE TRANSMISSION CENTERLINE AND CRANKSHAFT CENTERLINE TO BE MISALIGNED. THE RESULT OF THIS MISALIGNMENT MAY BE HARD SHIFTING, PILOT BEARING WEAR, TRANSMISSION MAIN SHAFT BEARING WEAR AND FAILURE OF CLUTCH DISC HUB.



FIRST CHECK BELLHOUSING FOR BORE CONCENTRICITY. INSTALL MAGNETIC BASE TO FLYWHEEL OR PRESSURE PLATE, THEN INSTALL THE INDICATOR TO MEASURE THE BELLHOUSING BORE (SHOWN ABOVE). ROTATE THE CRANKSHAFT AND MARK DOWN THE INDICATOR READINGS (MARKING THE BELLHOUSING WORKS WELL). THE MAXIMUM OUT OF CONCENTRICITY IS .005".



NEXT, THE BELLHOUSING FACE SHOULD BE CHECKED FOR PARALLELISM TO THE BACK OF THE BLOCK. INSTALL THE INDICATOR (AS SHOWN ABOVE). ROTATE THE CRANKSHAFT AND MARK DOWN THE READINGS (BE SURE TO PUSH THE CRANKSHAFT AGAINST THRUST BEARING FOR ACCURATE MEASUREMENT). THE MAXIMUM OUT OF PARALLELISM IS .002"

NOTE: INSPECT BLOCK SURFACE AND BELLHOUSING FOR DENTS, BURRS, PAINT, DEBRIS, ETC. BEFORE INSTALLING AND CHECKING BELLHOUSING ALIGNMENT.



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

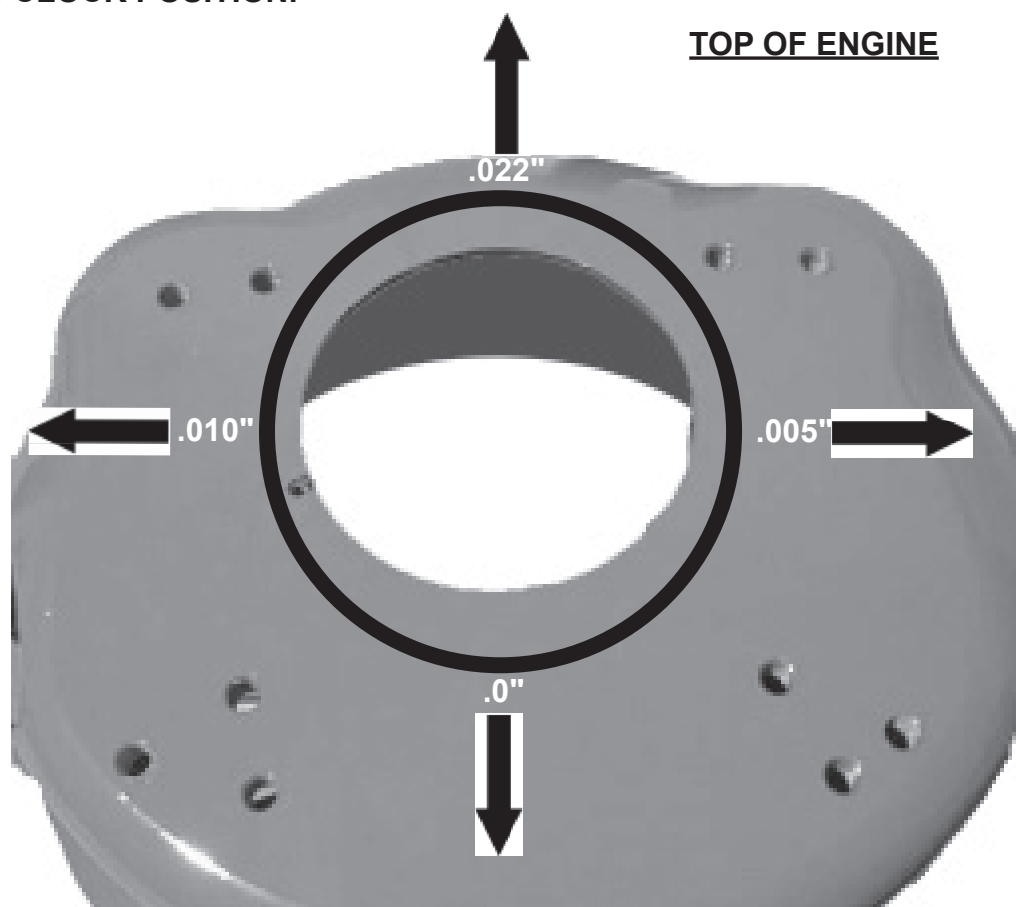
CONTINUED ON THE BACK SIDE

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TO CORRECT OFF-CENTER CONDITION, SELECT THE OFFSET DOWEL PIN PAIR THAT IS CLOSEST TO ONE-HALF OF THE INDICATOR READING (I.E., IF READING IS .016", 1/2R=.008" USE .007" DOWELS. IF READING IS .024", 1/2R=.012" USE .014 DOWELS).

EXAMPLE

THE BELLHOUSING WAS OFFSET TOWARD TOP OF ENGINE AND SLIGHTLY TO THE LEFT (AS VIEWED FROM BEHIND). TO ALIGN THE BELLHOUSING, INSTALL TWO .014" OFFSET DOWEL PINS WITH THE MAXIMUM OFFSET POSITIONED ROUGHLY AT THE 5 O'CLOCK POSITION.



OFFSET DOWEL PIN CHART

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TOTAL INDICATOR READING		ONE HALF TOTAL INDICATOR READING		SIZE DOWEL TO BE USED	
.012" TO .020"		.006" TO .010"		.007"	
.022" TO .034"		.011" TO .017"		.014"	
.036" TO .052"		.018" TO .026"		.021"	
		GM		FORD/CHRYSLER	
	<u>LAKEWOOD</u>	<u>MOROSO</u>	<u>TAVIA</u>		<u>LAKEWOOD</u>
.007	15920	37934	02701		15950
.014	15930	37936	02702		15960
.021	15940	37938	02703		15970

IMPORTANT



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

Centerforce Clutches
2266 Crosswind Dr.
Prescott, AZ 86301

Email Address: _____

Full Name: _____ Date Purchased: _____

Street Address: _____ Part #: _____

City: _____ Current SFI #: _____

State: _____

Zip: _____

Country: _____

Phone: _____

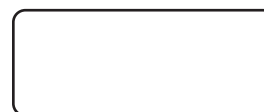
Note: A copy of your receipt/proof of purchase is required to obtain an updated SFI Activation Date and SFI Number.

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

New SFI #: _____

Date Certified: _____

Certified By: _____



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

IMPORTANT

DODGE, CHRYSLER & PLYMOUTH VEHICLES

WHEN REPLACING A COIL SPRING CLUTCH ASSEMBLY (3 FINGER TYPE) WITH A CENTERFORCE DIAPHRAGM TYPE PRESSURE PLATE, IT IS POSSIBLE FOR THE CLUTCH PEDAL TO STAY IN THE FULLY DE-PRESSED POSITION DURING THE OPERATION OF THE CLUTCH PEDAL. THIS IS CAUSED DUE TO THE REDUCED PEDAL EFFORT REQUIRED TO OPERATE THE CENTERFORCE DIAPHRAGM TYPE PRESSURE PLATE.

THIS PROBLEM IS USUALLY CAUSED DUE TO THE PEDAL ASSIST/ OVER-CENTER SPRING INSTALLED BY THE VEHICLE MANUFACTURER DESIGNED TO REDUCE THE PEDAL EFFORT REQUIRED WITH THE O.E.M. (3 FINGER TYPE) CLUTCH SYSTEM VERSUS THE EFFORT CREATED BY THE NEW CENTERFORCE DIAPHRAGM STYLE PRESSURE PLATE.

TO FIX THIS PROBLEM, YOU MUST EITHER REMOVE THE PEDAL ASSIST SPRING FROM UNDER THE DASHBOARD OR ADD A HEAVY DUTY CLUTCH PEDAL RETURN SPRING.



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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!



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

Centerforce Clutches
2266 Crosswind Dr.
Prescott, AZ 86301

Email Address: _____

Full Name: _____ Date Purchased: _____

Street Address: _____ Part #: _____

City: _____ Current SFI #: _____

State: _____

Zip: _____

Country: _____

Phone: _____

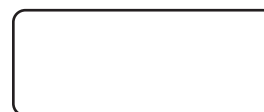
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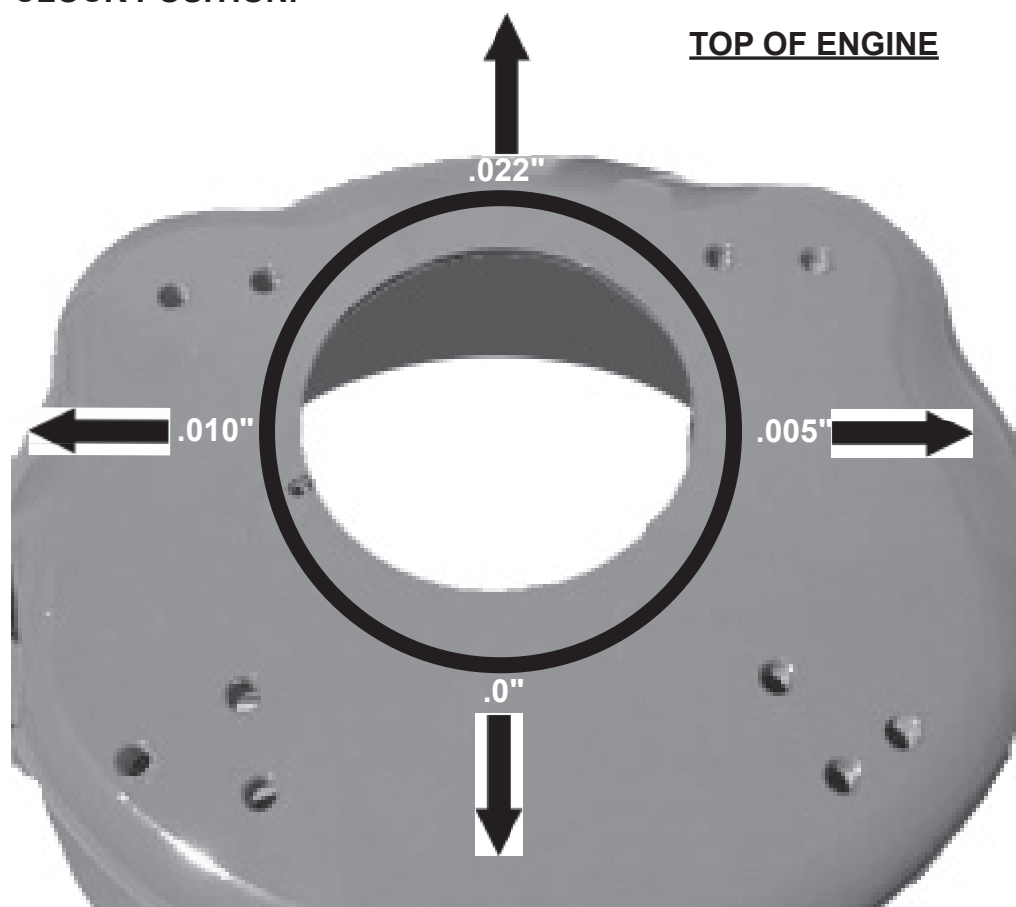
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