

2008 Ford Mustang
2008 TRANSMISSIONS Clutch Controls - Mustang

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Clutch Controls - Mustang

SPECIFICATIONS

MATERIAL SPECIFICATIONS

Item	Specification	Fill Capacity
High Performance DOT 3 Motor Vehicle Brake Fluid PM-1-C (US); CPM-1-C (Canada)	WSS-M6C62-A	-

GENERAL SPECIFICATIONS

Item	Specification
Clutch System	
Hydraulic	Self adjusting

TORQUE SPECIFICATIONS

Description	Nm	lb-ft	lb-in
Clutch master cylinder bolts	10	-	89
Clutch slave cylinder	20	15	-

DESCRIPTION AND OPERATION

CLUTCH CONTROLS

The clutch control system consists of the following components:

- Clutch pedal
- Clutch master cylinder
- Clutch slave cylinder
- Clutch hydraulic fluid tubes

The clutch control system disengages the clutch when the clutch pedal is depressed and engages the clutch when the clutch pedal is released. When the clutch pedal is depressed it pushes the clutch master cylinder plunger, which transmits hydraulic pressure to the clutch slave cylinder. The clutch slave cylinder engages and compresses the clutch pressure plate diaphragm spring, releasing the pressure on the clutch disc, which in turn disengages the transmission from the engine.

The hydraulic clutch system adjusts automatically to compensate for clutch disc wear.

The clutch pedal position (CPP) switch prevents the starter motor from engaging unless the clutch pedal is depressed all the way to the floor. The switch plunger is contacted by the clutch pedal and extends as the clutch pedal is pressed. The CPP switch is electrically connected in line with the ignition switch and the starter motor

relay coil. The CPP switch also deactivates the speed control system and signals the electronic engine control (EEC) module when the clutch pedal is depressed.

DIAGNOSTIC TESTS

CLUTCH CONTROLS

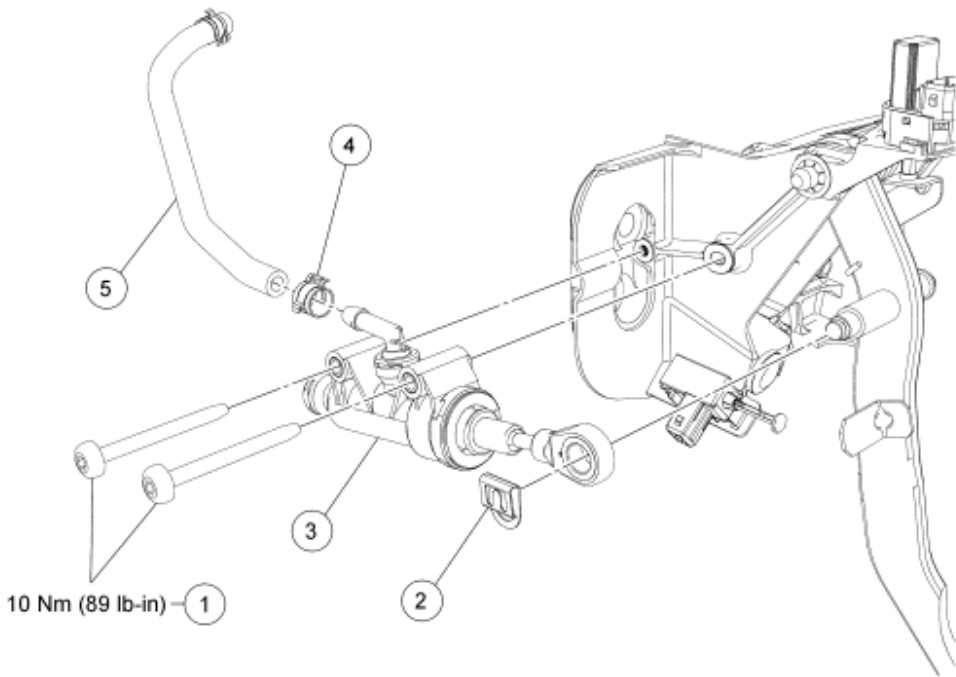
Refer to MANUAL TRANSAXLE/TRANSMISSION AND CLUTCH - GENERAL INFORMATION article.

REMOVAL AND INSTALLATION

CLUTCH MASTER CYLINDER

Material

Item	Specification
High Performance DOT 3 Motor Vehicle Brake Fluid PM-1-C (US); CPM-1-C (Canada)	WSS-M6C62-A



N0072591

Fig. 1: Clutch Master Cylinder With Torque Specifications
Courtesy of FORD MOTOR CO.

Item	Part Number	Description
1	-	Clutch master cylinder bolts (2 required)

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2	-	Retaining clip
3	7A543	Clutch master cylinder
4	-	Hose clamp
5	-	Reservoir hose

REMOVAL AND INSTALLATION

WARNING: Carefully read cautionary information on product label. For **EMERGENCY MEDICAL INFORMATION** seek medical advice. In the USA or Canada on Ford/Motorcraft products call: 1-800-959-3673. For additional information, consult the product Material Safety Data Sheet (MSDS) if available. Failure to follow these instructions may result in serious personal injury.

CAUTION: Brake fluid is harmful to painted or plastic surfaces. If the brake fluid is spilled onto a painted or plastic surface, wash immediately with cold water.

1. Remove the brake pedal and bracket assembly. For additional information, refer to **HYDRAULIC BRAKE ACTUATION** article.
2. Remove the retaining clip from the clutch pedal pin.
3. Remove the 2 clutch master cylinder bolts, then disconnect the clutch master cylinder from the clutch pedal.
 - To install, tighten to 10 Nm (89 lb-in).
4. Remove the reservoir hose from the clutch master cylinder.
5. To install, reverse the removal procedure.
 - Install new hose clamps on the reservoir hose.
 - Bleed the clutch hydraulic system. For additional information, refer to **MANUAL TRANSAXLE/TRANSMISSION AND CLUTCH - GENERAL INFORMATION** article.
 - Refill the brake and clutch reservoir with the specified fluid.
 - Check the clutch for normal operation.

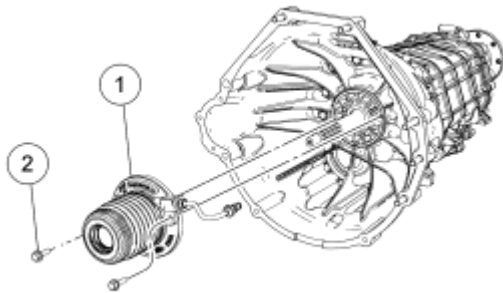
CLUTCH SLAVE CYLINDER

Material

Item	Specification
High Performance DOT 3 Motor Vehicle Brake Fluid PM-1-C (US); CPM-1-C (Canada)	WSS-M6C62-A

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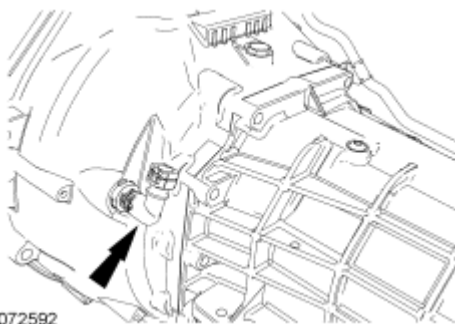
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Fig. 2: Clutch Slave Cylinder Components With Torque Specifications
Courtesy of FORD MOTOR CO.

Item	Part Number	Description
1	7A508	Clutch slave cylinder
2	-	Clutch slave cylinder bolts (2 required)

REMOVAL AND INSTALLATION

1. Remove the transmission. For additional information, refer to **MANUAL TRANSAXLE/TRANSMISSION - T50D** article, **MANUAL TRANSAXLE/TRANSMISSION - TR3650** article or **MANUAL TRANSAXLE/TRANSMISSION - TR6060** article.
2. Place the transmission on a workbench.
3. Separate the connector from the clutch slave cylinder.



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Fig. 3: Clutch Slave Cylinder
Courtesy of FORD MOTOR CO.

4. Remove the 2 clutch slave cylinder bolts. Pull the clutch slave cylinder outward and release the tube from the retaining clip.
5. Inspect the clutch slave cylinder for the following:
 - Damaged boot
 - Leaking brake fluid
 - Worn or damaged release bearing
 - Rotate the release bearing while applying pressure. If the bearing rotation is rough, install a

new clutch slave cylinder.

6. Install a new retaining clip.

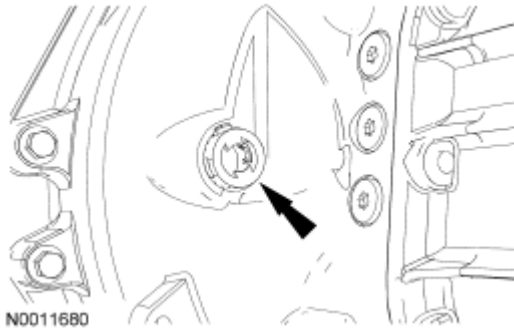


Fig. 4: Locating Retaining Clip
Courtesy of FORD MOTOR CO.

7. Position the clutch slave cylinder to the transmission, inserting the tube through the retaining clip. Install the 2 clutch slave cylinder bolts.
 - Tighten to 20 Nm (15 lb-ft).
8. Install the connector.

NOTE: Before securing the transmission to the engine, connect the hydraulic tube to the clutch slave cylinder. When connecting the hydraulic line, a click will be heard when the line is correctly connected. Tug on the line to make sure it is locked in the fitting.

9. Install the transmission. For additional information, refer to **MANUAL TRANSAXLE/TRANSMISSION - T50D** article, **MANUAL TRANSAXLE/TRANSMISSION - TR3650** article or **MANUAL TRANSAXLE/TRANSMISSION - TR6060** article.
10. Bleed the clutch hydraulic system. For additional information, refer to **MANUAL TRANSAXLE/TRANSMISSION AND CLUTCH - GENERAL INFORMATION** article.