

2008 Ford Mustang

2008 BRAKES Power Brake Actuation - Mustang

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SPECIFICATIONS

TORQUE SPECIFICATIONS

Description	Nm	lb-ft
Brake booster nuts	25	18

DESCRIPTION AND OPERATION

BRAKE BOOSTER

The power brake actuation system consists of the following components:

- Brake booster
- Brake booster check valve
- Brake booster vacuum supply hose

The brake booster uses engine vacuum from the intake manifold to create a partial vacuum inside the vacuum booster on both sides of the diaphragm. When the brake pedal is pressed, the booster rod opens a valve, allowing air to enter the booster on one side of the diaphragm while sealing off the opposite side. This increases pressure on that side of the diaphragm so that it helps push the rod, which in turn pushes the piston in the master cylinder. As the brake pedal is released, the valve seals off the outside air supply while opening the vacuum valve. This restores vacuum to both sides of the diaphragm, allowing everything to return to its original position.

DIAGNOSTIC TESTS

POWER BRAKE SYSTEM

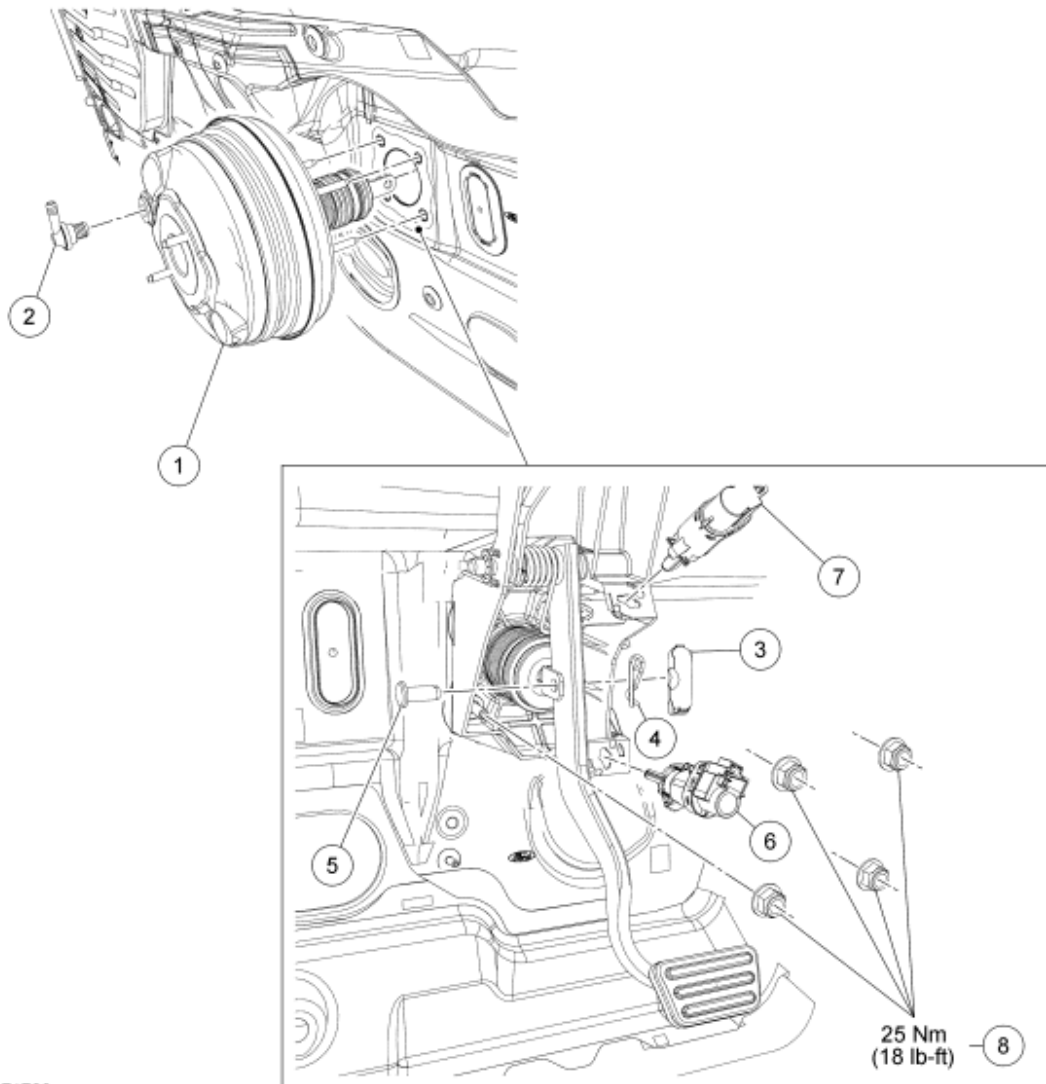
Refer to [BRAKE SYSTEM - GENERAL INFORMATION](#) article.

REMOVAL AND INSTALLATION

BRAKE BOOSTER

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Fig. 1: Identifying Brake Booster Components With Torque Specifications
Courtesy of FORD MOTOR CO.

Item	Part Number	Description
1	2B195	Brake booster
2	2365	Brake booster vacuum check valve
3	2475	Redundant self-locking clip cover
4	380699	Self-locking clip
5	2N513	Brake booster rod pin
6	13480	Stop lamp switch
7	9C872	Speed deactivation switch
8	W520112	Brake booster nuts (4 required)

REMOVAL AND INSTALLATION

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Vehicles equipped with 5.4L engines

1. Remove the suction accumulator. For additional information, refer to **CLIMATE CONTROL** article.

All vehicles

CAUTION: The brake booster check valve must be disconnected from the brake booster prior to removing the master cylinder or the master cylinder seal may be drawn into the brake booster.

2. Disconnect the brake booster check valve from the brake booster to deplete the residual vacuum in the brake booster.
3. Remove the brake master cylinder. For additional information, refer to **HYDRAULIC BRAKE ACTUATION** article.

CAUTION: Do not service the brake pedal or brake booster without first removing the stoplamp switch and speed control deactivator switch. These switches must be removed with the brake pedal in the at-rest position. Switch plungers must be compressed for the switch to rotate in the bracket. Attempting to remove the switch when the plunger is extended (during pedal apply) will result in damage to the switch.

4. Remove the stoplamp switch. For additional information, refer to **EXTERIOR LIGHTING** article.
5. If equipped, remove the speed control deactivator switch. For additional information, refer to **SPEED CONTROL** article.
6. Remove the redundant self-locking pin cover, self-locking pin and the booster rod pin.
7. Remove the 4 brake booster nuts.
 - To install, tighten to 25 Nm (18 lb-ft).
8. Remove the brake booster assembly from the vehicle.

CAUTION: Do not press, pull or otherwise move the brake pedal while installing the stoplamp switch or the speed control deactivator switch. These switches must be installed with the booster push rod attached to the brake pedal and with the brake pedal in the at-rest position. Installing these switches with the brake pedal in any other position will result in incorrect adjustment and may damage the switches.

9. To install, reverse the removal procedure.