

2008 Ford Mustang
2008 BRAKES Rear Disc Brake - Mustang

2008 BRAKES

Rear Disc Brake - Mustang

SPECIFICATIONS

Material

Item	Specification	Fill Capacity
High Performance DOT 3 Motor Vehicle Brake Fluid PM-1-C (US); CPM-1-C (Canada)	WSS-M6C62-A	714 ml (1.5 pt)
High Temperature Nickel Anti-Seize Lubricant XL-2 (US); CXG-2-B (Canada)	ESE-M12A4-A	-
Metal Brake Parts Cleaner PM-4-A or PM-4-B (US); CPM-4 (Canada)	-	-
Silicone Brake Caliper Grease and Dielectric Compound XG-3-A	ESE-M1C171-A	-

GENERAL SPECIFICATIONS

Item	Specification
Brake Disc	
Brake disc minimum thickness	17.4 mm (0.685 in)
Brake Pads	
Brake pad maximum taper wear (in any direction)	3.0 mm (0.118 in)
Brake pad minimum thickness	3.0 mm (0.118 in)

TORQUE SPECIFICATIONS

Description	Nm	lb-ft	lb-in
Anti-moan bracket U-bolt nuts	35	26	-
Bleeder screw	10	-	89
Brake caliper anchor plate bolts	103	76	-
Brake caliper flow bolt	40	30	-
Brake caliper guide pin bolts ^a	-	-	-
Brake caliper support bracket bolts	68	50	-
Brake disc shield bolts	20	15	-
Brake hose bracket bolts	15	11	-
Brake tube fitting	17	13	-

^a Refer to the procedure for the correct tightening sequence and torque specifications.

DESCRIPTION AND OPERATION

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REAR DISC BRAKE

The rear disc brake system consists of the following components:

- Brake caliper anchor plate
- Brake caliper
- Brake disc
- Brake flexible hose
- Brake pads

When mechanical force is applied by the driver to the brake pedal, the force is converted into hydraulic pressure by the master cylinder. The hydraulic force is directed to the disc brake calipers and transferred to the brake pads. The brake pads are then forced against the brake friction surfaces by the brake caliper pistons. The friction of the brake pads on the brake disc causes the slowing or stopping of wheel rotation and the vehicle.

DIAGNOSTIC TESTS

REAR DISC BRAKE

Refer to **BRAKE SYSTEM - GENERAL INFORMATION** article.

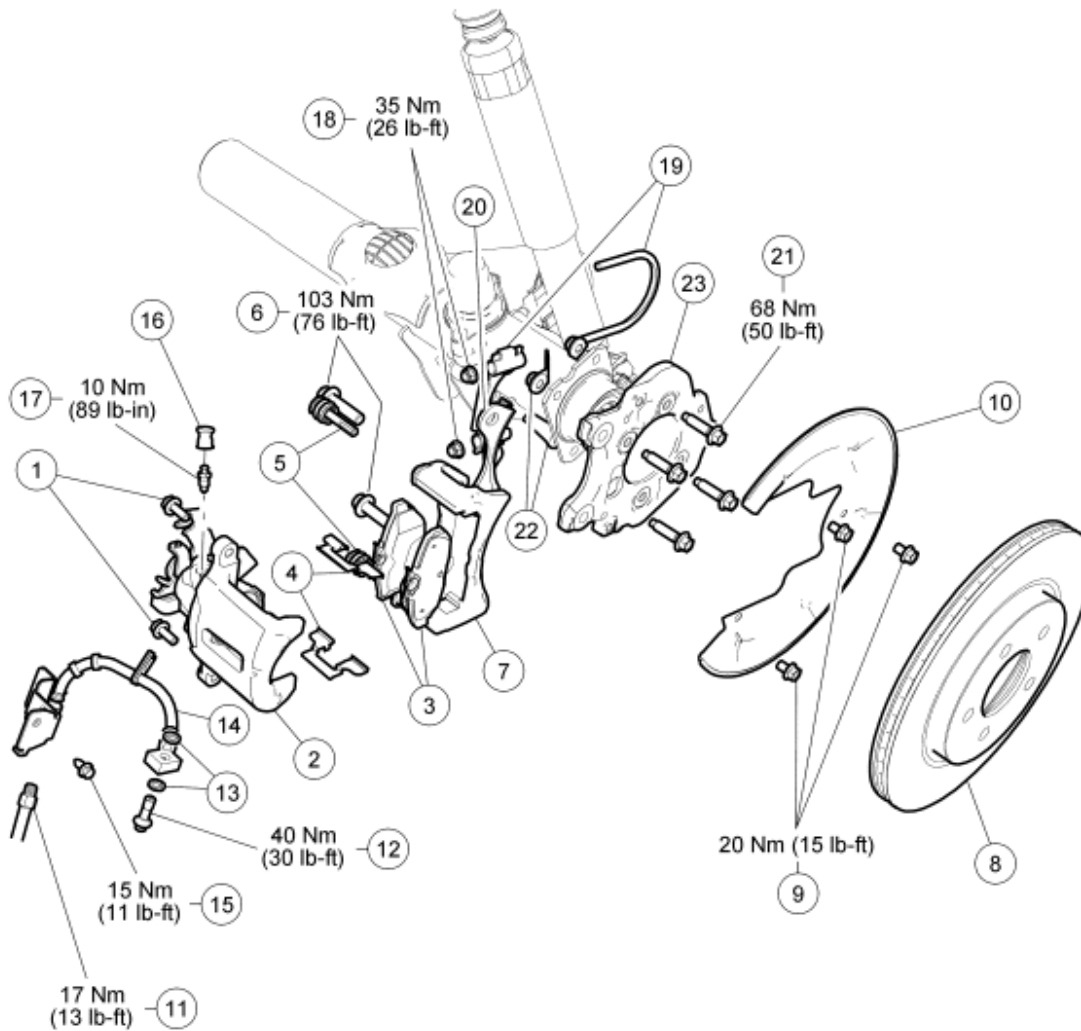
REMOVAL AND INSTALLATION

DISC BRAKE SYSTEM - EXPLODED VIEW

NOTE: 4.0L SOHC and 4.6L (3L) shown, 5.4L similar.

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Fig. 1: Exploded View Of Disc Brake System With Torque Specifications
Courtesy of FORD MOTOR CO.

Item	Part Number	Description
1	2N386	Brake caliper guide pin bolts
2	2552 RH/ 2553 LH	Brake caliper
3	2218	Brake pads (kit)
4	-	Spring clips (part of kit 2200)
5	-	Guide pin and boot (part of kit 2B296)
6	W705821	Brake caliper anchor plate bolt kits (2 bolts each side)
7	2B511	Brake caliper anchor plate
8	2C026	Brake disc
9	W500020	Brake disc shield bolts (3 required) (part of 2C029)

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10	2C029	Brake disc shield
11	-	Brake tube fitting (part of 2268)
12	W712275	Brake caliper flow bolt
13	W712362	Copper washers (2 required)
14	2A442 RH/ 2A478 LH	Brake hose
15	N802191	Brake hose bracket bolt
16	-	Bleeder screw cap (part of 2N033)
17	2N033	Bleeder screw
18	W520112	Anti-moan bracket U-bolt nuts (2 required)
19	-	Anti-moan bracket U-bolt and clamp (part of 2C371)
20	2C371	Anti-moan bracket (4.0L SOHC and 4.6L [3V] only)
21	-	Brake caliper support bracket bolts (4 required) (part of 4001)
22	-	Brake caliper support bracket flag nuts (4 required) (part of 4001)
23	-	Brake caliper support bracket (part of 4001)

1. For additional information, refer to the procedures.

BRAKE CALIPER

Material

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

REMOVAL

WARNING: Do not use any fluid other than clean brake fluid meeting manufacturer's specification. Additionally, do not use brake fluid that has been previously drained. Following these instructions will help prevent system contamination, brake component damage and the risk of serious personal injury.

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 and plastic surfaces. If brake fluid is spilled onto a painted or plastic surface, immediately wash it with water.

1. Remove the wheel and tire. For additional information, refer to **WHEELS AND TIRES** article.
2. Remove the retaining clip and the parking brake cable and conduit from the brake caliper.

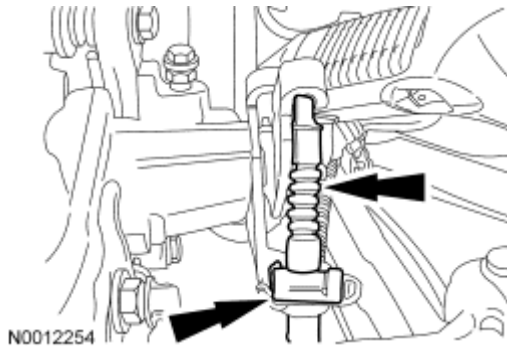


Fig. 2: Locating Retaining Clip And Parking Brake Cable
Courtesy of FORD MOTOR CO.

3. Remove the brake caliper flow bolt and discard the 2 copper washers.
4. Remove the 2 brake caliper guide pin bolts and the brake caliper.
5. Inspect the brake caliper.
 - If leaks or a damaged piston boot are found, install a new brake caliper.

INSTALLATION

1. Position the brake caliper and install the 2 brake caliper guide pin bolts until snug.
 - Tighten the RH caliper guide pin bolts in the following sequence:
 - Tighten the top bolt to 33 Nm (24 lb-ft).
 - Tighten the bottom bolt to 33 Nm (24 lb-ft).
 - Tighten the LH caliper guide pin bolts in the following sequence:
 - Tighten the bottom bolt to 33 Nm (24 lb-ft).
 - Tighten the top bolt to 33 Nm (24 lb-ft).
2. Using 2 new copper washers, position the front brake hose on the brake caliper and install the flow bolt.
 - Tighten to 40 Nm (30 lb-ft).
3. Connect the parking brake cable and conduit to the brake caliper.
 - Install the retaining clip.
4. Bleed the caliper. For additional information, refer to **BRAKE SYSTEM - GENERAL INFORMATION** article for component bleeding.
5. Install the wheel and tire. For additional information, refer to **WHEELS AND TIRES** article.

BRAKE PADS

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Special Tools

Illustration	Tool Name	Tool Number
 ST1112-A	Adapter, Rear Brake Caliper Piston Adjuster	206-026 (T87P-2588-A) or equivalent

Material

Item	Specification
High Performance DOT 3 Motor Vehicle Brake Fluid PM-1-C (US); CPM-1-C (Canada)	WSS-M6C62-A
Silicone Brake Caliper Grease and Dielectric Compound XG-3-A	ESE-M1C171-A

REMOVAL

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WARNING: Always install new brake shoes or pads at both ends of an axle to reduce the possibility of brakes pulling vehicle to one side. Failure to follow this instruction may result in uneven braking and serious personal injury.

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

1. Remove the wheel and tire. For additional information, refer to **WHEELS AND TIRES** article.

CAUTION: Care must be used when servicing rear brake components without disconnecting the parking brake cable from the brake caliper lever. Carefully position the caliper aside using a suitable support or

damage to the parking brake cable end fittings may occur.

CAUTION: Do not use caliper sight hole to retract pistons as this may damage the pistons and boots.

CAUTION: Do not allow the caliper to hang from the brake hose or damage to the hose may occur.

2. Remove the 2 brake caliper guide pin bolts and position the brake caliper aside.
 - Support the caliper using mechanic's wire.
3. Remove the brake pads and discard the spring clips.
4. Measure the brake disc thickness.
 - Install a new brake disc if not within specification. For additional information, refer to **Brake Disc**.
5. Inspect the brake caliper.
 - If leaks or damaged boots are found, install a new brake caliper. For additional information, refer to **Brake Caliper**.
6. Inspect the brake caliper anchor plate assembly.
 - Check the guide pins and boots for binding and damage.
 - Replace worn or damaged pins. Lubricate the pins with the specified grease.
 - Install a new brake caliper anchor plate if it is worn or damaged.

INSTALLATION

1. Using the special tool, compress the brake caliper piston into the brake caliper bore.

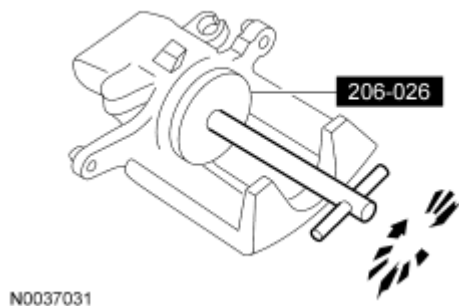


Fig. 3: Compressing Brake Caliper Piston Into Caliper
Courtesy of FORD MOTOR CO.

2. Position the notch in the caliper piston up and down to align with the alignment pin on the brake pad.

CAUTION: Do not allow grease, oil, brake fluid or other contaminants to contact the pad lining material, or damage to components may occur. Do not

install contaminated pads.

NOTE: Install all hardware supplied with the pad kit.

- 3. Install the 2 new spring clips and the brake pads.
- 4. Position the brake caliper on the anchor plate and install the 2 brake caliper guide pin bolts until snug.
 - Tighten the RH caliper guide pin bolts in the following sequence:
 - Tighten the top bolt to 33 Nm (24 lb-ft).
 - Tighten the bottom bolt to 33 Nm (24 lb-ft).
 - Tighten the LH caliper guide pin bolts in the following sequence:
 - Tighten the bottom bolt to 33 Nm (24 lb-ft).
 - Tighten the top bolt to 33 Nm (24 lb-ft).
- 5. Install the wheel and tire. For additional information, refer to **WHEELS AND TIRES** article.
- 6. Apply brakes several times to verify correct brake operation.

BRAKE CALIPER ANCHOR PLATE

Material

Item	Specification
Metal Brake Parts Cleaner PM-4-A or PM-4-B (US); CPM-4 (Canada)	-

REMOVAL

- 1. Remove the brake pads. For additional information, refer to **Brake Pads**.
- 2. Remove the 2 brake caliper anchor plate bolts and the brake caliper.
 - Discard the bolts.

INSTALLATION

CAUTION: In order for the brake caliper anchor plate bolts to attain the proper clamp load when installed, the residual thread lock compound must be cleaned out of the bolt threads of the anchor plate.

- 1. Clean any residual thread lock compound, and any other foreign material, from the threads of the brake caliper anchor plate.
- 2. Position the brake caliper anchor plate and install 2 new anchor plate bolts.
 - Tighten to 103 Nm (76 lb-ft).
- 3. Install the brake pads. For additional information, refer to **Brake Pads**.

BRAKE DISC

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Item	Specification
High Temperature Nickel Anti-Seize Lubricant XL-2 (US); CXG-2-B (Canada)	ESE-M12A4-A
Metal Brake Parts Cleaner PM-4-A or PM-4-B (US); CPM-4 (Canada)	-

REMOVAL

1. Remove the wheel and tire. For additional information, refer to **WHEELS AND TIRES** article.

CAUTION: Care must be used when servicing rear brake components without disconnecting the parking brake cable from the brake caliper lever. Carefully position the caliper aside using a suitable support or damage to the parking brake cable end fittings may occur.

CAUTION: Do not allow the brake caliper and anchor plate assembly to hang from the brake hose or damage to the hose may occur.

2. Remove and discard the 2 anchor plate bolts and position the brake caliper anchor plate and brake caliper assembly aside.
 - Support the caliper using mechanic's wire.
3. Remove the brake disc.

INSTALLATION

1. Clean any rust or foreign material from the brake disc and the wheel hub.
 - Use brake parts cleaner to clean the brake disc and hub surfaces.

CAUTION: In order for the brake caliper anchor plate bolts to attain the proper clamp load when installed, the residual thread lock compound must be cleaned out of the bolt threads of the anchor plate.

2. Clean any residual thread lock compound, and any other foreign material, from the threads of the brake caliper anchor plate.

CAUTION: Do not allow the lubricant to make contact with the wheel studs, brake pads or brake disc or damage to components may occur.

3. Apply a thin coat of anti-seize lubricant to the hub flange.
4. Position the brake disc onto the wheel hub.
5. Position the brake caliper anchor plate and install 2 new anchor plate bolts.
 - Tighten to 103 Nm (76 lb-ft).

- 6. Install the wheel and tire. For additional information, refer to **WHEELS AND TIRES** article.
- 7. Apply brakes several times to verify correct brake operation.

BRAKE DISC SHIELD

REMOVAL AND INSTALLATION

- 1. Remove the brake disc. For additional information, refer to **Brake Disc**.
- 2. Remove the 3 bolts and the brake disc shield.
 - To install, tighten to 20 Nm (15 lb-ft).
- 3. To install, reverse the removal procedure.

BRAKE CALIPER SUPPORT BRACKET

REMOVAL AND INSTALLATION

- 1. Remove the rear axle shaft. For additional information, refer to **REAR DRIVE AXLE/DIFFERENTIAL - FORD 7.5-INCH RING GEAR** article or **REAR DRIVE AXLE/DIFFERENTIAL - FORD 8.8-INCH RING GEAR** article.
- 2. Remove the 3 bolts and the brake disc shield.
 - To install, tighten to 20 Nm (15 lb-ft).

NOTE: **Make sure the anti-moan bracket holes, the brake caliper support bracket and the brake caliper anchor plate holes line up during installation.**

- 3. Remove the anti-moan bracket.
 - To install, tighten to 35 Nm (26 lb-ft).
- 4. Remove the 4 brake caliper support bracket nuts, bolts and the bracket.
 - To install, tighten to 68 Nm (50 lb-ft).
- 5. To install, reverse the removal procedure.

BRAKE FLEXIBLE HOSE

Material

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

REMOVAL AND INSTALLATION

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previously drained. Following these instructions will help prevent system contamination, brake component damage and the risk of serious personal injury.

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

1. Remove the wheel and tire. For additional information, refer to **WHEELS AND TIRES** article.
2. Remove the brake caliper flow bolt and discard the 2 copper washers.
 - To install, tighten to 40 Nm (30 lb-ft).
3. Disconnect the brake tube fitting from the brake flexible hose.
 - To install, tighten to 17 Nm (13 lb-ft).
4. Remove the brake hose bracket bolt and the brake hose.
 - To install, tighten to 15 Nm (11 lb-ft).
5. To install, reverse the removal procedure.
 - Bleed the brake caliper. For additional information, refer to **BRAKE SYSTEM - GENERAL INFORMATION** article for component bleeding.