

2005 Ford Focus ZX5 S**2005 BRAKES Front Disc Brake - Focus****2005 BRAKES****Front Disc Brake - Focus****SPECIFICATIONS****GENERAL SPECIFICATIONS****GENERAL SPECIFICATIONS**

Item	Specification
High Performance DOT 3 Motor Vehicle Brake Fluid PM-1 (Canada CPM-1)	ESA-M6C25-A
Silicone Brake Caliper Grease and Dielectric Compound XG-3-A	ESE-M1C171-A

FRONT DISC BRAKE SPECIFICATIONS**FRONT DISC BRAKE SPECIFICATIONS**

Item	Specification
Brake Disc	
Brake disc diameter	278 mm (10.94 in)
Brake disc nominal thickness (new)	25 mm (0.98 in)
Brake disc minimum thickness	23 mm (0.91 in)
Brake disc minimum thickness to machine	23.5 mm (0.93 in)
Maximum brake disc runout (installed)	0.050 mm (0.002 in)
Maximum brake disc thickness variation	0.020 mm (0.0008 in)
Brake Pads	
Brake pad minimum thickness	3.0 mm (0.118 in)
Brake pad maximum thickness variation (pad-to-pad)	2.0 mm (0.079 in)
Brake pad maximum taper wear (in any direction)	3.0 mm (0.118 in)

TORQUE SPECIFICATIONS**TORQUE SPECIFICATIONS**

Description	Nm	lb-ft	lb-in
Brake caliper anchor plate bolts	133	98	-
Brake caliper retaining bolts	28	21	-
Brake flexible hose-	15	11	-

2005 Ford Focus ZX5 S

2005 BRAKES Front Disc Brake - Focus

to-brake caliper			
Brake caliper bleeder screw	8	-	71

DESCRIPTION AND OPERATION

FRONT DISC BRAKE

The front disc brake system consists of the following components:

- Caliper
- Dust seal
- Piston
- Piston seal
- Caliper bleeder screw
- Brake pads
- Anchor plate
- Rotor
- Dust shield

The front disc brake system consists of a single-piston front disc brake caliper and a ventilated front disc brake rotor. The brake pads are held in the front disc brake caliper by two front disc brake caliper bolts.

To remove the brake disc shield you must remove the wheel knuckle. For additional information, refer to **FRONT SUSPENSION** .

DIAGNOSIS AND TESTING

FRONT DISC BRAKE

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

REMOVAL AND INSTALLATION

BRAKE PADS

Removal and Installation

NOTE: If installing new brake pads, remove brake fluid from the master cylinder reservoir until it is half full.

1. Remove the wheel and tire assembly. For additional information, refer to **WHEELS**

AND TIRES .

2. Remove the brake hose from the support bracket.

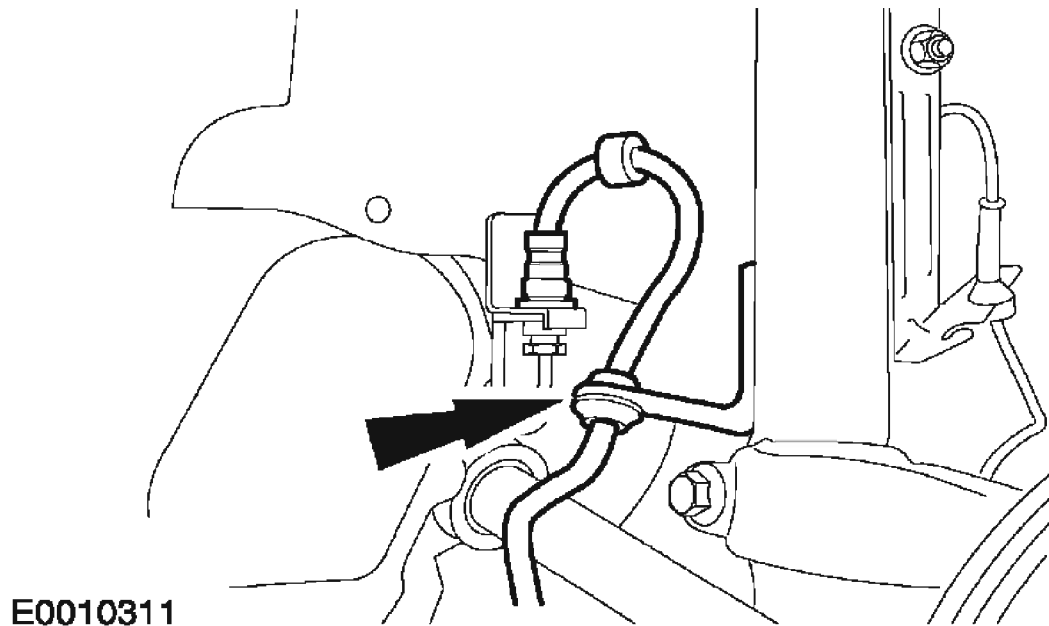
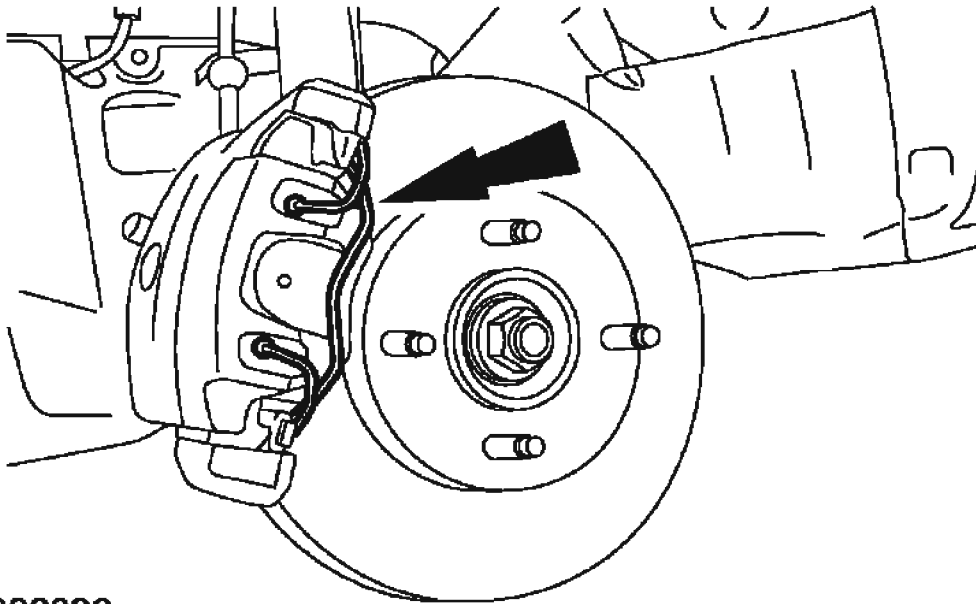


Fig. 1: Removing Brake Hose From Support Bracket
Courtesy of FORD MOTOR CO.

3. Remove the outer brake pad retaining clip.



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Fig. 2: Removing Outer Brake Pad Retaining Clip
Courtesy of FORD MOTOR CO.

4. Remove the brake caliper.
 - Remove the bolt covers.
 - Remove the bolts.

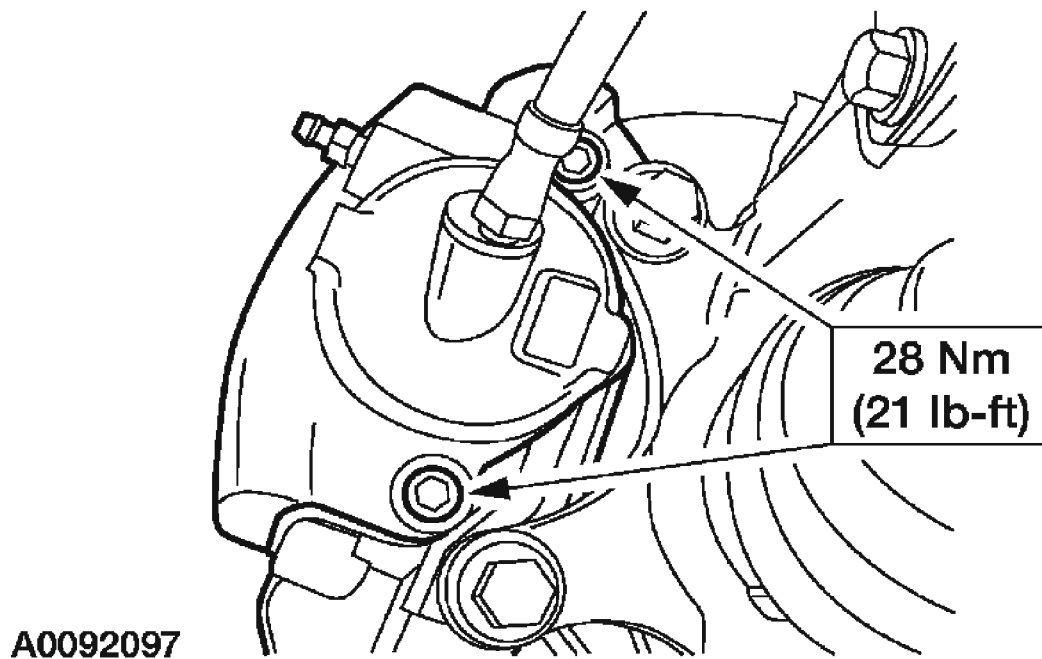


Fig. 3: Removing Brake Caliper Bolts
Courtesy of FORD MOTOR CO.

CAUTION: Do not allow the brake caliper to hang by the flexible brake hose.

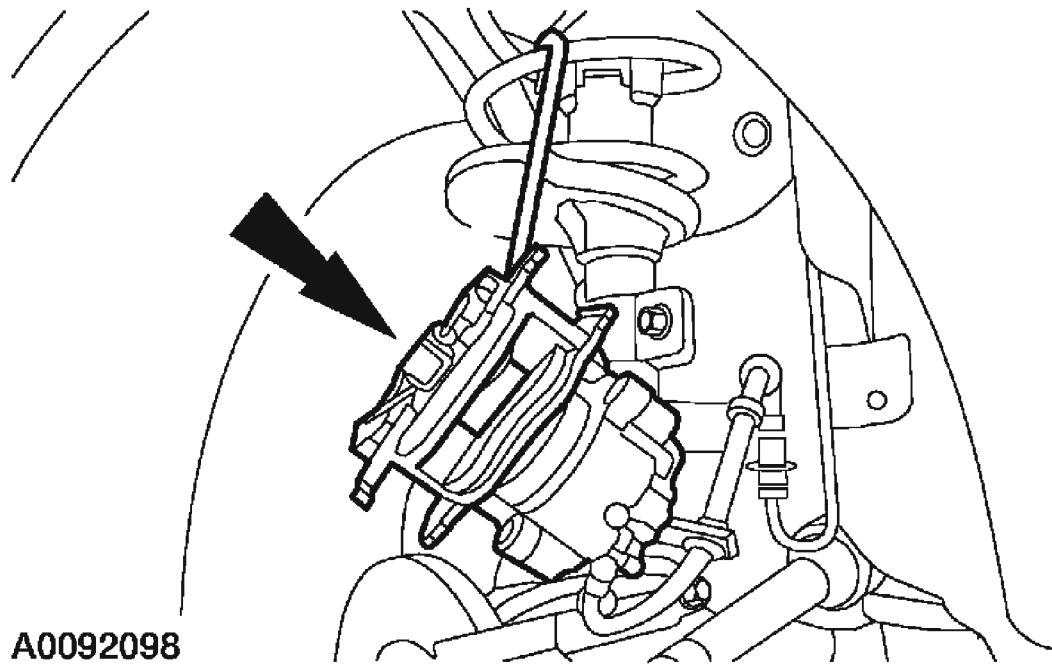


Fig. 4: Supporting Brake Caliper To Vehicle
Courtesy of FORD MOTOR CO.

5. Support the brake caliper to the vehicle.
6. Remove the brake pads from the caliper.

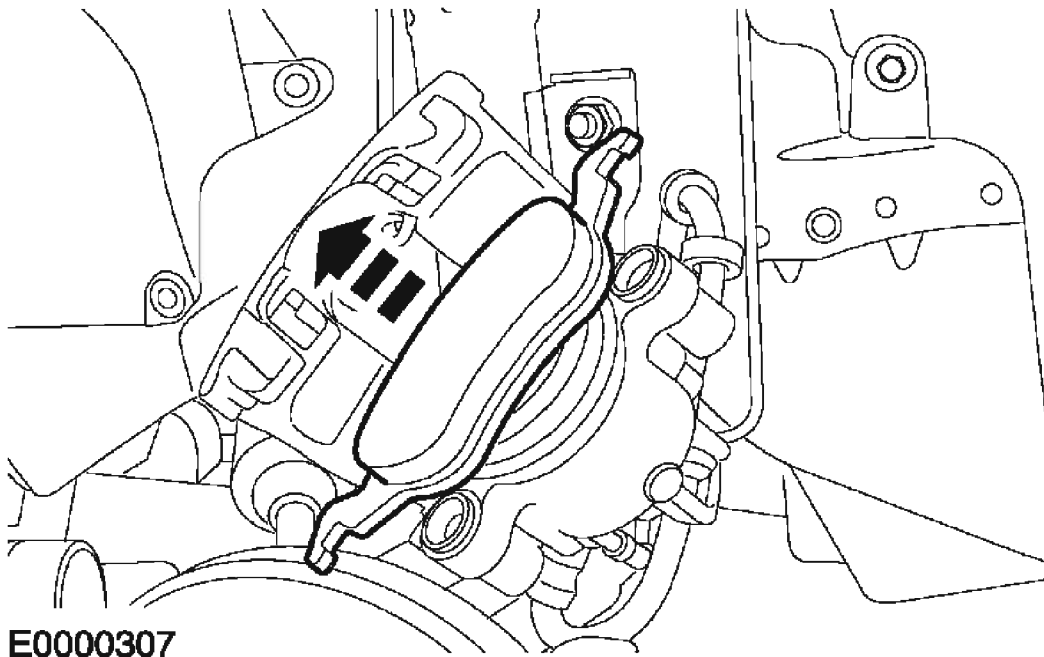


Fig. 5: Removing Brake Pads From Caliper
Courtesy of FORD MOTOR CO.

CAUTION: If the caliper piston is retracted into the housing, brake fluid may be displaced from the master cylinder.

NOTE: If installing new brake pads, fully retract the brake caliper piston into the housing.

7. To install, reverse the removal procedure.

BRAKE CALIPER

Removal and Installation

WARNING: Brake fluid contains polyglycol ethers and polyglycols. Avoid contact with eyes. Wash hands thoroughly after handling. If brake fluid contacts eyes, flush eyes with running water for 15 minutes. Get medical attention if irritation persists. If taken internally, drink water and induce vomiting. Get medical attention immediately. Failure to follow these instructions may result in personal injury.

CAUTION: Do not allow the brake master cylinder reservoir to run dry during the bleeding operation. Keep the brake master cylinder reservoir filled with the specified brake fluid. Never reuse the brake fluid that has been drained from the hydraulic system.

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 assembly. For additional information, refer to **WHEELS AND TIRES**.
2. Loosen the brake flexible hose.

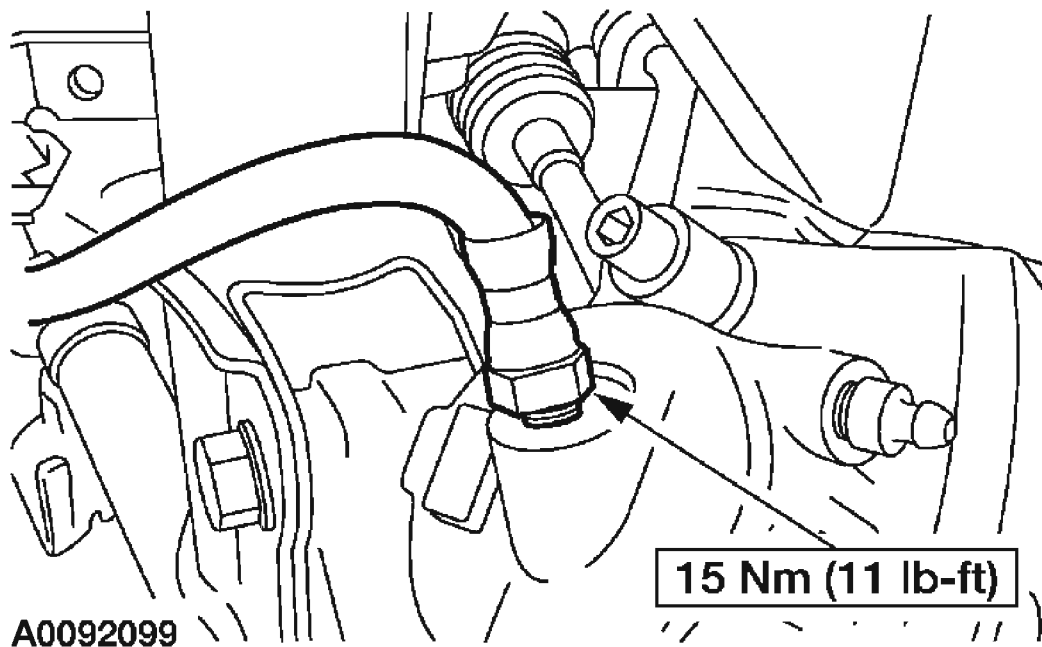


Fig. 6: Loosening Brake Flexible Hose
Courtesy of FORD MOTOR CO.

3. Remove the front brake pads. For additional information, refer to **BRAKE PADS**.

CAUTION: Cap the brake hose to prevent fluid loss and dirt contamination.

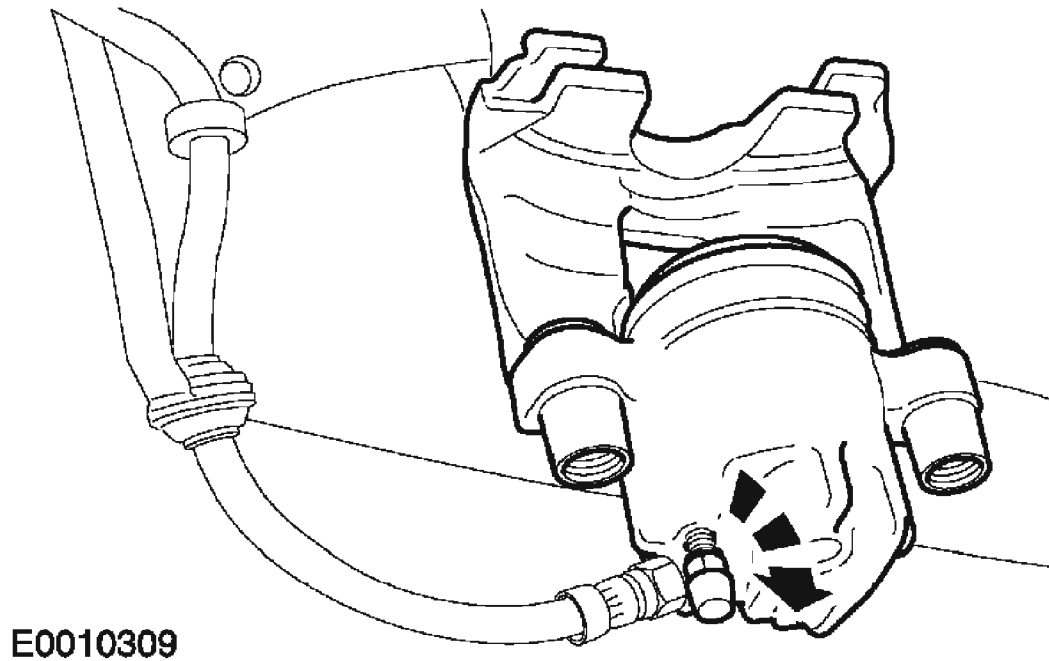


Fig. 7: Disconnecting Caliper From Brake Flexible Hose
Courtesy of FORD MOTOR CO.

4. Disconnect the caliper from the brake flexible hose.
5. To install, reverse the removal procedure.
6. Bleed the brake system. For additional information, refer to **BRAKE SYSTEM-GENERAL INFORMATION** .

BRAKE CALIPER ANCHOR PLATE

Removal and Installation

1. Remove the brake pads. For additional information, refer to **BRAKE PADS**.
2. Remove the bolts and the brake caliper anchor plate.

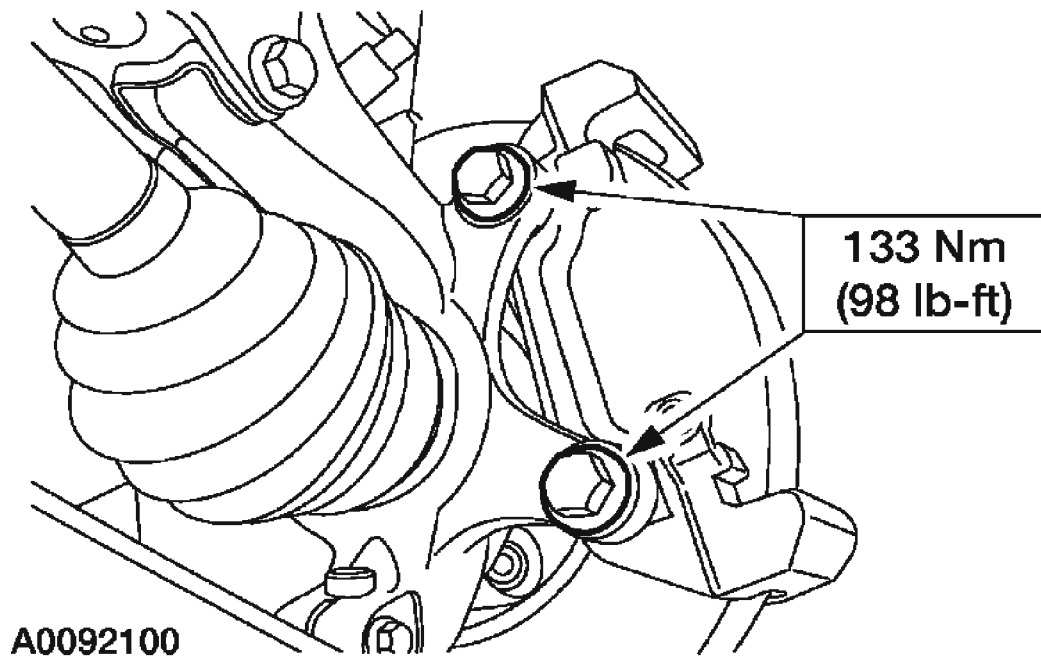


Fig. 8: Removing Bolts And Brake Caliper Anchor Plate
Courtesy of FORD MOTOR CO.

3. To install, reverse the removal procedure.

BRAKE DISC

Removal and Installation

1. Remove the wheel and tire assembly. For additional information, refer to **WHEELS AND TIRES**.
2. Remove the brake hose from the support bracket.

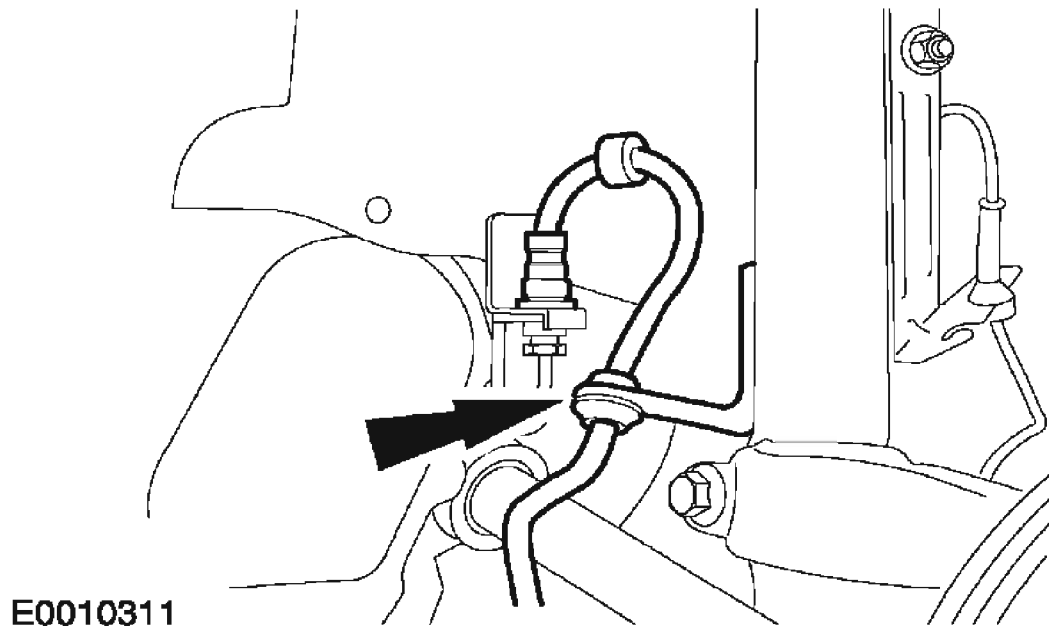
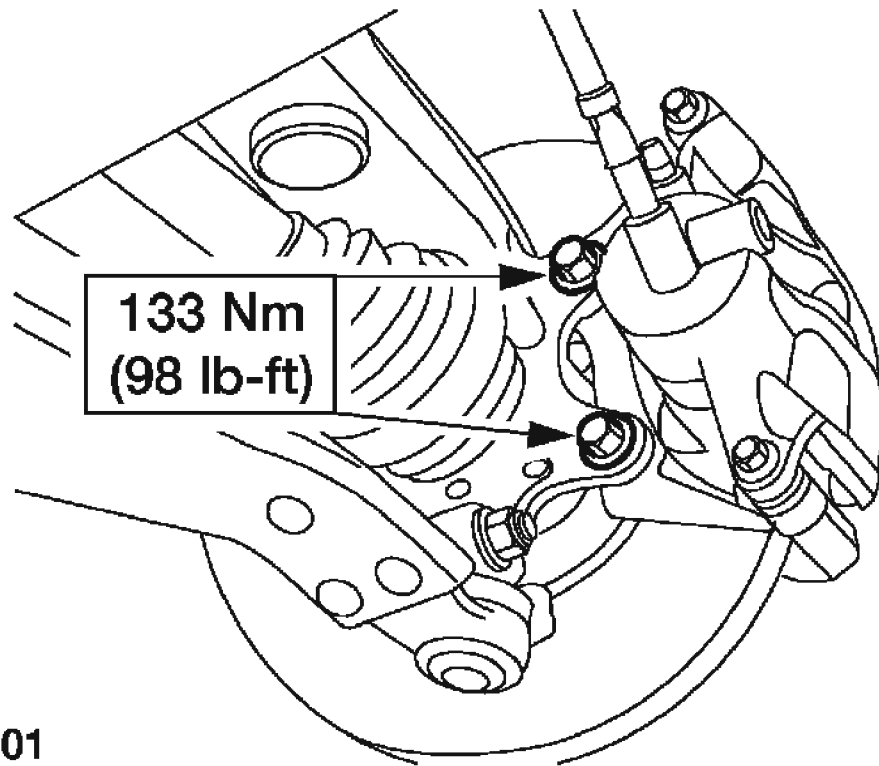


Fig. 9: Removing Brake Hose From Support Bracket
Courtesy of FORD MOTOR CO.

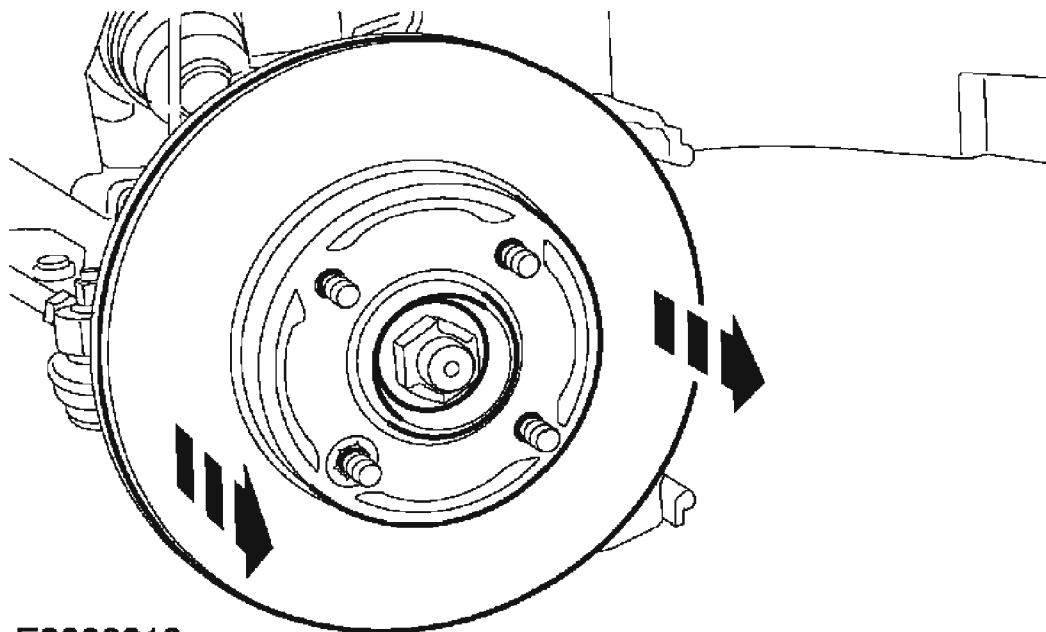
CAUTION: Do not allow the brake caliper to hang by the flexible brake hose.



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Fig. 10: Removing Brake Caliper And Anchor Plate From Wheel Knuckle
Courtesy of FORD MOTOR CO.

3. Remove the brake caliper and anchor plate from the wheel knuckle.
4. Remove the brake disc.



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Fig. 11: Removing Brake Disc
Courtesy of FORD MOTOR CO.

5. To install, reverse the removal procedure.