

2005 Ford Focus ZX5 S**2005 BRAKES Rear Disc Brake - Focus****2005 BRAKES****Rear Disc Brake - Focus****SPECIFICATIONS****LUBRICANTS, FLUIDS, SEALERS AND ADHESIVES****LUBRICANTS, FLUIDS, SEALERS AND ADHESIVES 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

REAR DISC BRAKE SPECIFICATIONS**REAR DISC BRAKE SPECIFICATIONS**

Item	Specification
Brake Disc	
Brake disc diameter	253 mm (9.95 in)
Brake disc nominal thickness (new)	10.2 mm (0.40 in)
Brake disc minimum thickness	8.9 mm (0.35 in)
Brake disc minimum thickness to machine	9.5 mm (0.37 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	55	41	-
Brake caliper bolts	35	26	-
Flexible brake hose fitting to brake	15	11	-

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caliper			
Wheel spindle bolts	66	49	-
Rear wheel speed sensor bolt	9	-	80

DESCRIPTION AND OPERATION

REAR DISC BRAKE

The rear disc brake system consists of the following components:

- Dust shield
- Disc brake caliper
- Disc brake caliper bolts
- Disc brake rotor retaining clip
- Disc brake rotor

The rear disc brake system consists of solid rear disc brake rotors and single-piston rear disc brake calipers. The calipers are mounted to the anchor plate.

After initial setting, rear disc brake adjustment is maintained through periodic parking brake operation.

DIAGNOSIS AND TESTING

REAR DISC BRAKE

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

REMOVAL AND INSTALLATION

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

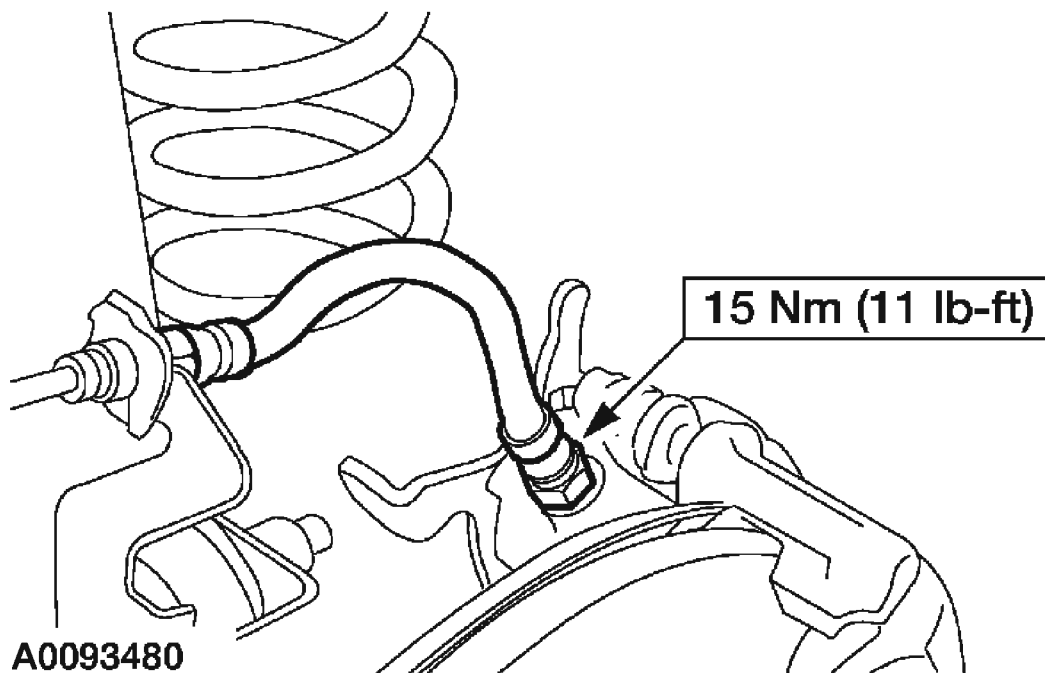
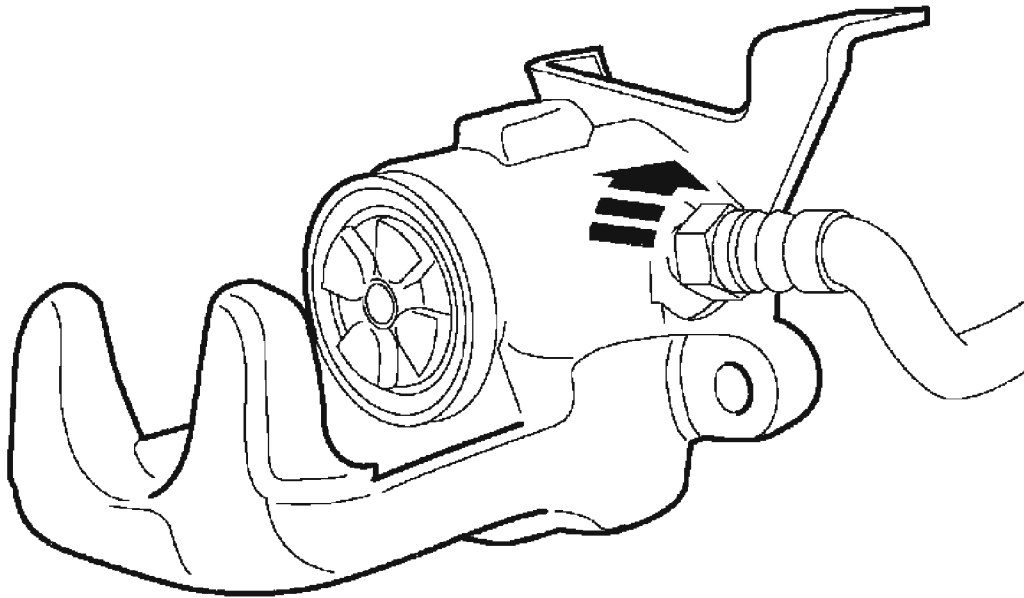


Fig. 1: Loosening Flexible Brake Hose Fitting
Courtesy of FORD MOTOR CO.

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

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



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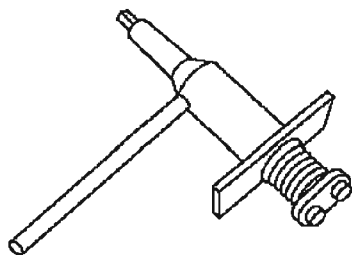
Fig. 2: Disconnecting Caliper From Flexible Brake Hose
Courtesy of FORD MOTOR CO.

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

BRAKE PADS

Special Tool(s)

SPECIAL TOOLS DESCRIPTION

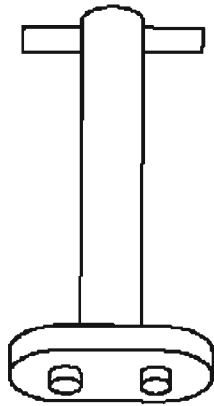
**T75P-2588-B**

Adjuster, Rear Brake Caliper Piston
206-010 (T75P-2588-B)

Adapter for 206-010 206-026 (T87P-2588-

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T87P-2588-A

A)

Material

MATERIAL SPECIFICATIONS

Item	Specification
High Performance DOT 3 Motor Vehicle Brake Fluid PM-1	ESA-M6C25-A

Removal and Installation

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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. Release the parking brake.

2. Remove the wheel and tire. For additional information, refer to **WHEELS AND TIRES**.
3. Remove the parking brake cable from the brake caliper.
 1. Pull back the parking brake lever.
 2. Disconnect the cable from the parking brake lever.
 3. Remove the cable conduit retaining clip.
 4. Remove the cable from the brake caliper.

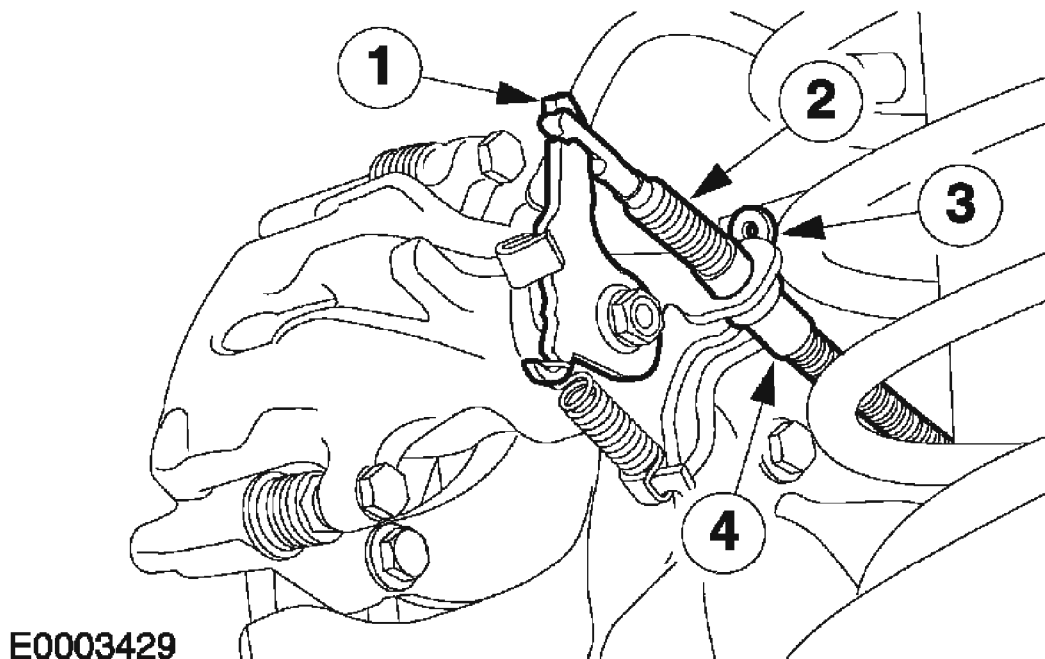


Fig. 3: Removing Parking Brake Cable From Brake Caliper
Courtesy of FORD MOTOR CO.

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

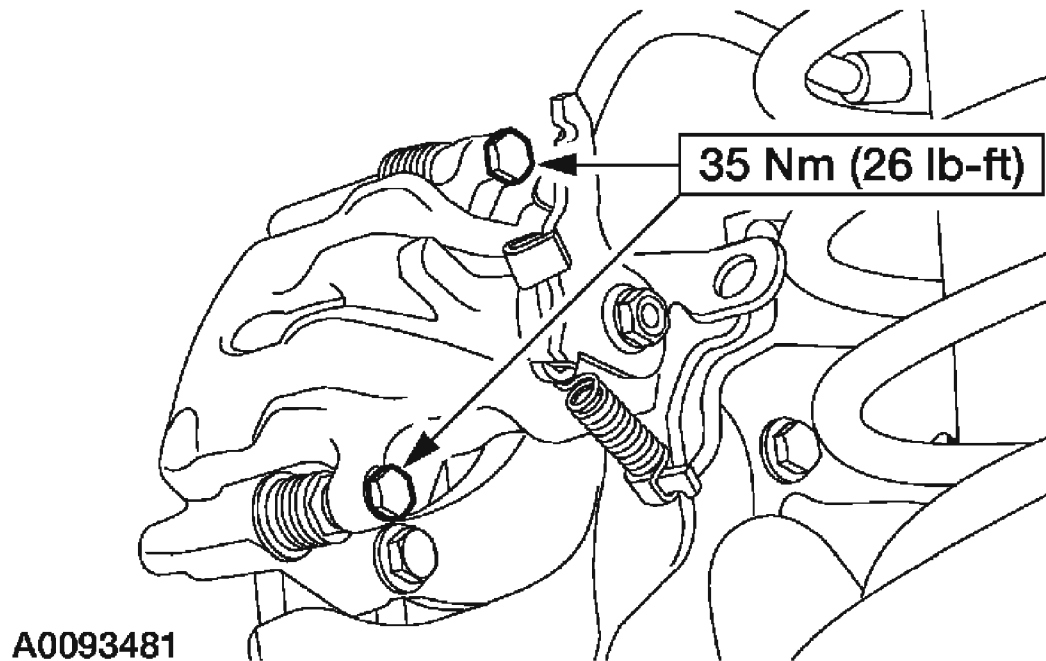


Fig. 4: Removing Brake Caliper From Anchor Plate
Courtesy of FORD MOTOR CO.

4. Remove the brake caliper from the anchor plate.
5. Remove the brake pads.

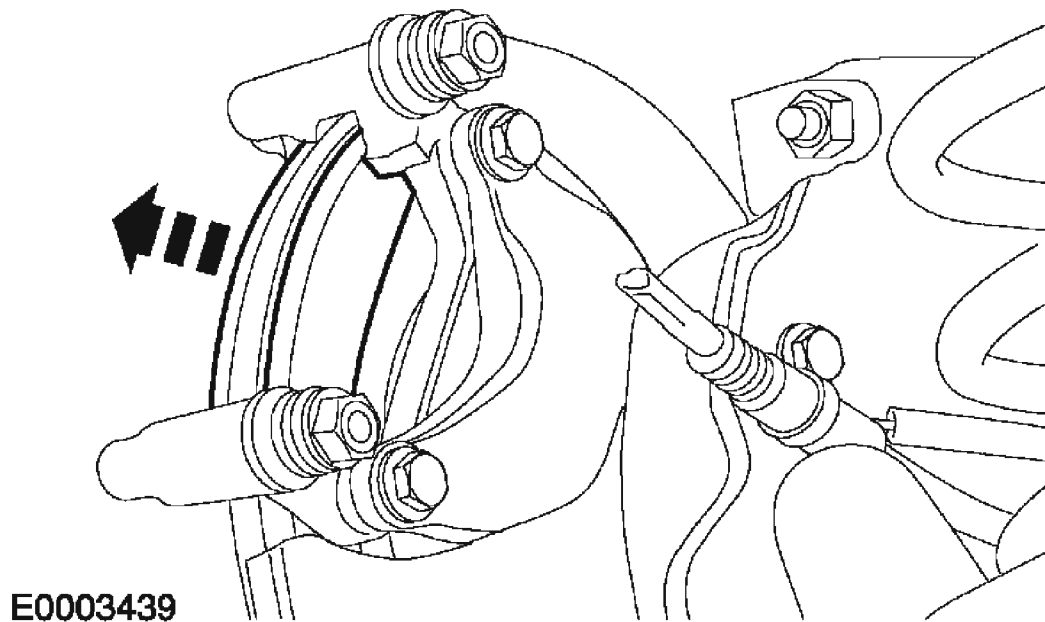


Fig. 5: Removing Brake Pads
Courtesy of FORD MOTOR CO.

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

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

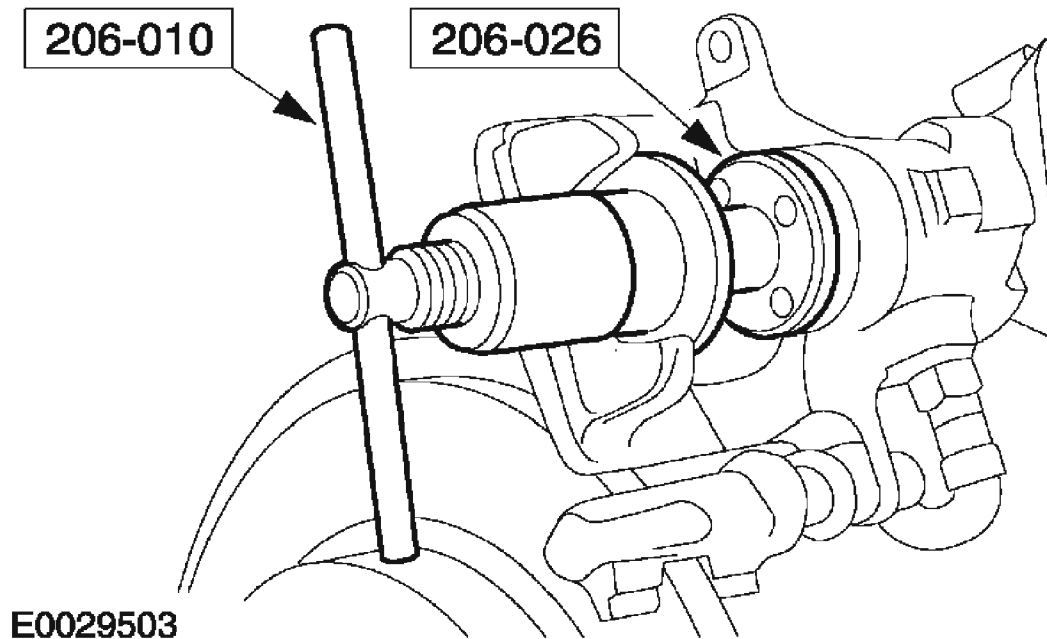


Fig. 6: Using Special Tool To Retract Brake Caliper Piston
Courtesy of FORD MOTOR CO.

6. Using the special tool, retract the brake caliper piston.
7. To install, reverse the removal procedure.
8. Pump the brake pedal several times to make sure the caliper piston is extended to its operating position. Check the fluid level in the brake fluid reservoir and top off if necessary with brake fluid.

BRAKE DISC

Removal and Installation

1. Release the parking brake.
2. Remove the wheel and tire. For additional information, refer to **WHEELS AND TIRES**.
3. Remove the parking brake cable from the brake caliper.
 1. Pull back the parking brake lever.
 2. Disconnect the cable from the parking brake lever.
 3. Remove the cable conduit retaining clip.
 4. Remove the cable from the brake caliper.

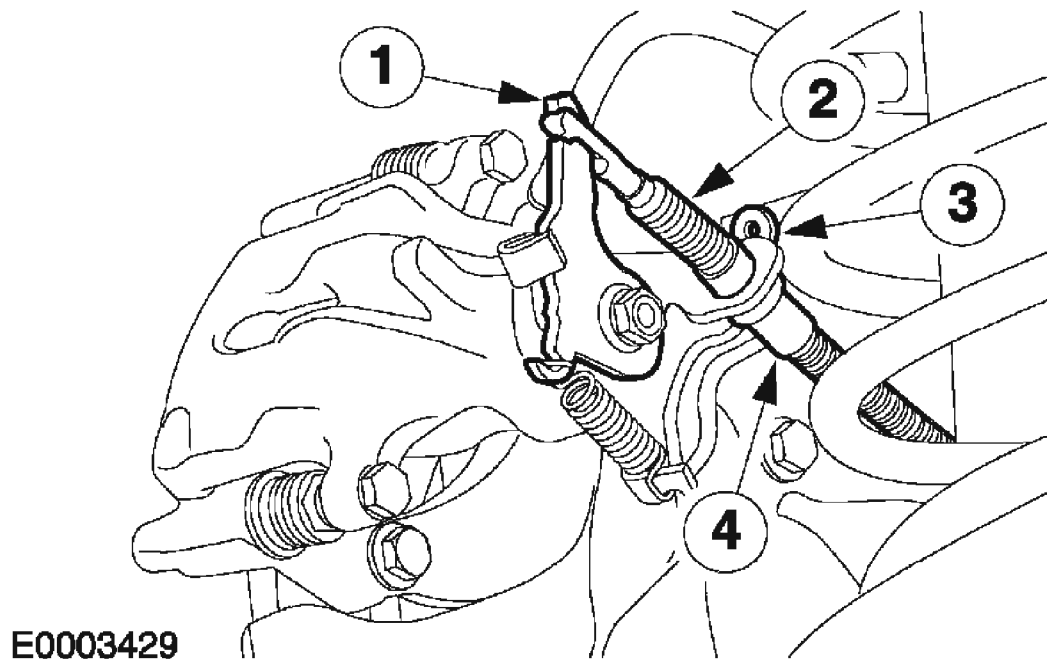


Fig. 7: Removing Parking Brake Cable From Brake Caliper
Courtesy of FORD MOTOR CO.

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

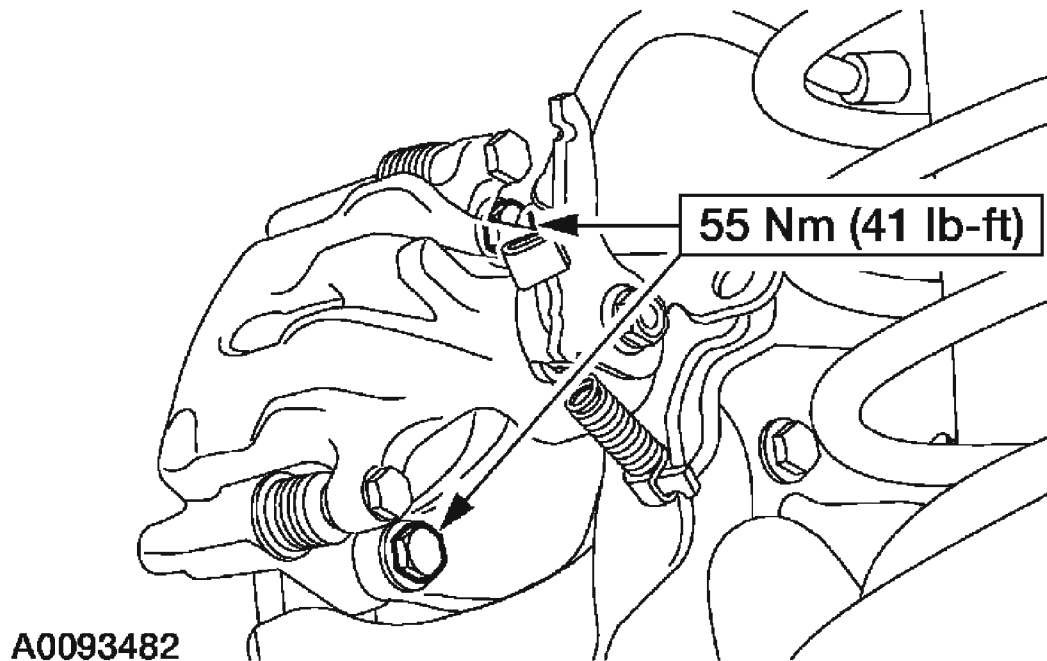
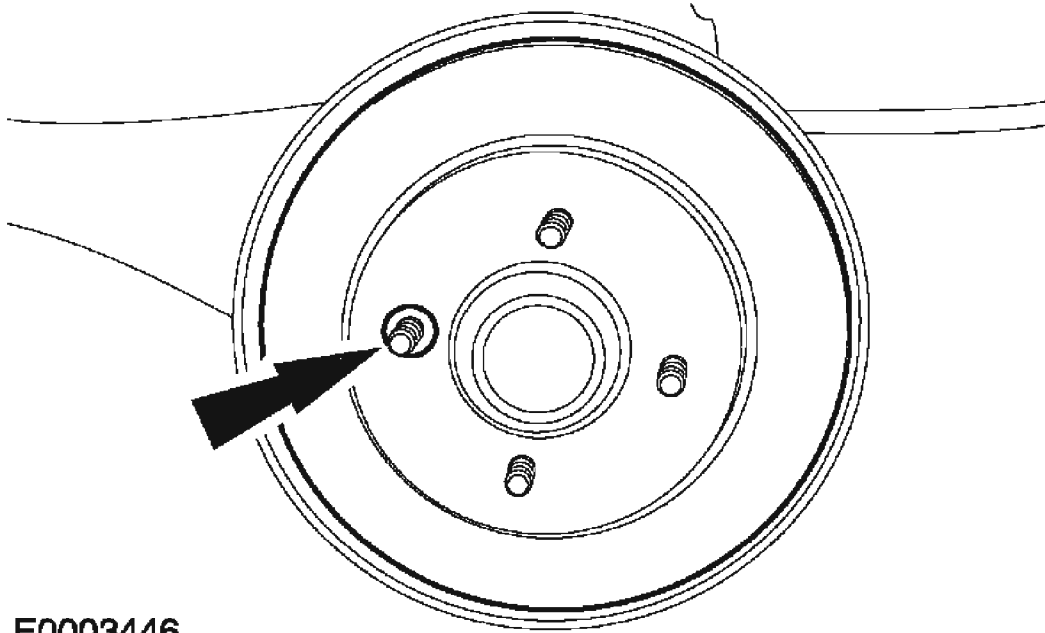


Fig. 8: Removing Brake Caliper And Anchor Plate From Wheel Knuckle
Courtesy of FORD MOTOR CO.

5. Remove the brake disc.
 - Remove the retaining clip (if equipped).



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Fig. 9: Removing Retaining Clip And Brake Disc
Courtesy of FORD MOTOR CO.

6. To install, reverse the removal procedure.
7. Adjust the parking brake cable. For additional information, refer to **PARKING BRAKE AND ACTUATION** .

BRAKE DISC SHIELD

Removal and Installation

All vehicles

1. Remove the wheel hub and spindle.

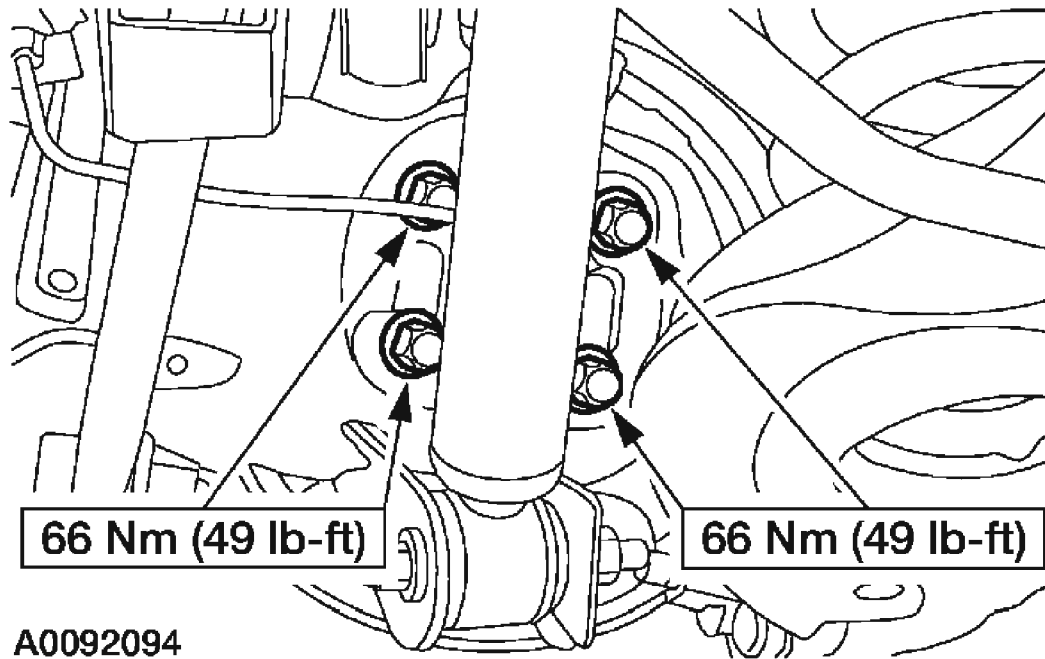


Fig. 10: Removing Wheel Hub And Spindle
Courtesy of FORD MOTOR CO.

Vehicles with anti-lock brakes

2. Disconnect the rear wheel speed sensor.

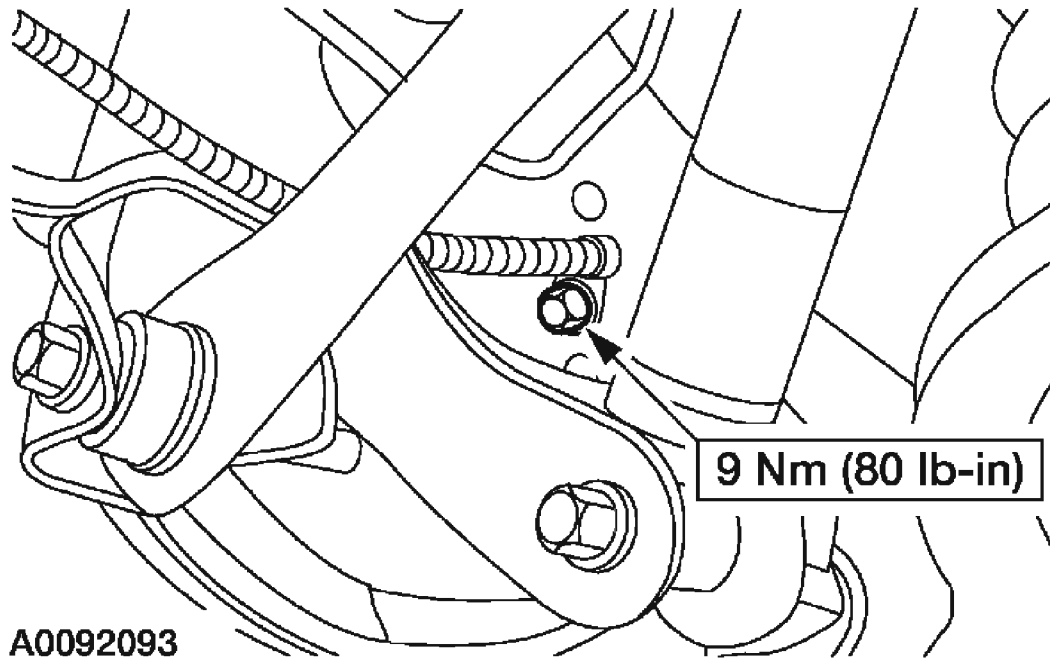


Fig. 11: Disconnecting Rear Wheel Speed Sensor
Courtesy of FORD MOTOR CO.

All vehicles

3. Remove the brake disc shield.
 - Drill out the rivets.

CAUTION: Make sure all mating surfaces are free of foreign material and debris.

4. To install, reverse the removal procedure.