SPECIFICATIONS

FASTENER SPECIFICATIONS

Reusable Threaded Fastener Tightening Specifications

NOTE: *All fasteners listed in this table can be reused after removal.*	
Application	**Specification** **Metric (English)**
Front Parking Brake Cable Pass Through Grommet Nut	6 (53 lb in)
Parking Brake Lever Pedal Assembly Nut	25 (18 lb ft)
Parking Brake Switch Bolt	3 (27 lb in)
Rear Parking Brake Anchor Backing Plate Bolt	300 (221 lb ft)
Rear Parking Brake Cable Clip Bolt	22 (16 lb ft)

DIAGNOSTIC INFORMATION AND PROCEDURES

SYMPTOMS - PARK BRAKE

IMPORTANT: Review the system operation in order to familiarize yourself with the system functions.

Refer to **Park Brake System Description and Operation**.

Visual/Physical Inspection

- Inspect for aftermarket devices which could affect the operation of the park brake system.
- Inspect the easily accessible or visible system components for obvious damage or conditions which could cause the symptom.

Symptom List

Refer to a symptom diagnostic procedure from the following list in order to diagnose the symptom:

Park Brake Will Not Hold or Release

PARK BRAKE WILL NOT HOLD OR RELEASE

Step	Action	Yes	No
1	Were you sent here from the Park Brake Symptom table?	Go to **Step 2**	Go to **Symptoms - Park Brake**

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Step	Action	Yes	No
2	Inspect the park brake system for proper operation. Refer to **Park Brake System Diagnosis**. Did you find and correct a condition?	Go to **Step 5**	Go to **Step 3**
3	Inspect the disc brake system for proper operation. Refer to **Disc Brake System Diagnosis** . Did you find and correct a condition?	Go to **Step 5**	Go to **Step 4**
4	Inspect the hydraulic brake system for proper operation. Refer to **Hydraulic Brake System Diagnosis** . Did you find and correct a condition?	Go to **Step 5**	Go to **Symptoms - Park Brake**
5	Road test the vehicle in order to confirm proper operation. Refer to **Brake System Vehicle Road Test** . Is the condition still present?	Go to **Step 2**	System OK

PARK BRAKE SYSTEM DIAGNOSIS

Step	Action	Yes	No
DEFINITION: This diagnostic table is designed to diagnose ONLY the components of the PARK brake system in order to determine if the PARK brake system is operating properly. You will be directed by the appropriate Symptom Table to go to other brake system diagnostic tables as appropriate.			
1	Were you sent here from a Hydraulic Brake Symptom Table?	Go to **Step 4**	Go to **Step 2**
2	Were you sent here from a Park Brake Symptom Table?	Go to **Step 4**	Go to **Step 3**
3	Is the symptom related to the ability of the park brake system to hold and/or release?	Go to **Symptoms - Park Brake**	Go to **Symptoms - Hydraulic Brakes**
4	1. Raise and support the vehicle with the rear axle supported by jack stands. Refer to **Lifting and Jacking the Vehicle** . 2. Shift the transmission into NEUTRAL. 3. With the park brake RELEASED, attempt to rotate the rear wheels to check the rear brakes for a significant amount of drag. Do the rear brakes have a significant amount of drag?	Go to **Step 9**	Go to **Step 5**
5	1. Shift the transmission into NEUTRAL. 2. Apply the park brake. 3. Attempt to rotate the rear wheels to check the rear brakes for a significant amount of drag. Do the rear brakes have a significant amount of drag?	Go to **Step 18**	Go to **Step 6**
6	Visually check the park brake cable connections and the cables that are accessible on the UNDERSIDE of the vehicle for disconnections and/or damage. Were any or the park brake cables disconnected and/or damaged?	Go to **Step 7**	Go to **Step 8**

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Step	Action	Yes	No
7	Reconnect or replace the park brake cables as necessary. Refer to the following procedures as necessary: • **Parking Brake Lever Pedal Assembly Replacement** (The front park brake cable and the park brake pedal are replaced as an assembly.) • **Parking Brake Intermediate Cable Replacement (J95, J96)Parking Brake Intermediate Cable Replacement (JD9)** • **Parking Brake Rear Cable Replacement - Left Side (J95, J96)Parking Brake Rear Cable Replacement - Left Side (JD9)** • **Parking Brake Rear Cable Replacement - Right Side (J95, J96)Parking Brake Rear Cable Replacement - Right Side (JD9)** Did you complete the repair and/or replacement?	Go to **Step 18**	-
8	Check the adjustment of the park brake and adjust as necessary. Refer to **Parking Brake Adjustment**. Did you find and correct the condition?	Go to **Step 18**	Go to **Step 9**
9	**CAUTION:** **Do not depress the brake pedal with the brake rotors and/or the brake drums removed, or with the brake calipers repositioned away from the brake rotors, or damage to the brake system may result.** 1. Remove the rear brake rotors. Refer to **Rear Brake Rotor Replacement (JD9) Rear Brake Rotor Replacement (J95) Rear Brake Rotor**	Go to **Step 10**	Go to **Step 11**

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Step	Action	Yes	No
	Replacement (J96) . 2. Inspect the park brake shoe hardware for looseness, damaged, broken or missing components. 3. Check the park brake actuators for a seized condition. Does the park brake hardware and/or the park brake actuators require replacement?		
10	1. Replace park brake hardware components as necessary. Refer to **Parking Brake Shoe Replacement (JD9)Parking Brake Shoe Replacement (J95, J96)**. 2. Replace the park brake actuators as necessary. Refer to **Rear Parking Brake Actuator Lever Replacement (J95, J96)Rear Parking Brake Actuator Lever Replacement (JD9)**. Did you complete the replacement?	Go to **Step 18**	-
11	With the aid of an assistant, apply and release the parking brake while observing the cables for free movement. Do the park brake cables move freely?	Go to **Step 12**	Go to **Step 14**
12	Check the adjustment of the park brake and adjust as necessary. Refer to **Parking Brake Adjustment**. Did you find and correct the condition?	Go to **Step 18**	Go to **Step 13**
13	1. With the transmission still in NEUTRAL, apply the park brake. 2. Attempt to rotate the rear wheels to check the rear brakes for a significant amount of drag. 3. Release the park brake. 4. Rotate the rear wheels to check the rear brakes for a significant reduction of drag. Did the park brake apply and release properly?	Go to **Step 18**	Go to **Symptoms - Park Brake**
14	Disconnect the park brake cable connections that are accessible on the UNDERSIDE of the vehicle one at a time and check each cable for free movement. Do any of the park brake cables accessible on the underside of the vehicle require replacement?	Go to **Step 15**	Go to **Step 16**
15	Replace any of the park brake cables that do not have free movement (not releasing properly). Refer to the following procedures as necessary: • **Parking Brake Lever Pedal Assembly Replacement**	Go to **Step 18**	-

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Step	Action	Yes	No
	(The front park brake cable and the park brake pedal are replaced as an assembly.) • **Parking Brake Intermediate Cable Replacement (J95, J96)Parking Brake Intermediate Cable Replacement (JD9)** • **Parking Brake Rear Cable Replacement - Left Side (J95, J96)Parking Brake Rear Cable Replacement - Left Side (JD9)** • **Parking Brake Rear Cable Replacement - Right Side (J95, J96)Parking Brake Rear Cable Replacement - Right Side (JD9)** Did you complete the replacement?		
16	Inspect the park brake pedal assembly for proper operation and replace as necessary. Refer to **Parking Brake Lever Pedal Assembly Replacement**. Did you find and correct the condition?	Go to **Step 18**	Go to **Step 17**
17	1. Replace the component that is used to adjust the park brake system. Refer to **Parking Brake Lever Pedal Assembly Replacement**. 2. Adjust the park brake. Refer to **Parking Brake Adjustment**. Did you complete the replacement and adjustment?	Go to **Step 18**	Go to **Symptoms - Park Brake**
18	Install or connect any components that were removed or disconnected during diagnosis. Did you complete the operation?	Park Brake System OK	Go to **Symptoms - Park Brake**

PARK BRAKE HARDWARE INSPECTION

WARNING: Refer to Brake Dust Warning .

1. With the brake rotors removed, visually inspect the upper return/adjuster actuator spring and the lower return spring for the following:
   - Excessive corrosion
   - Excessive stretching
   - Broken hook ends
   - Twisting or binding
2. If any of the conditions listed were found, which could lead to improper park brake apply and/or release, the adjuster hardware and/or return springs require replacement.
3. Visually inspect the adjuster and the adjuster actuator lever for the following:
   - Misalignment with the park brake lever
   - Misalignment with the park brake shoes
   - Broken or bent adjuster actuator lever

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- Bent adjuster actuator lever pivot pin

4. If any of the conditions listed were found, which could lead to improper park brake apply and/or release, the adjuster hardware requires repair or replacement.
5. Inspect the park brake lever for the following:
   - Bent
   - Broken pivot pin
   - Seized at the pivot pin
   - Broken at park brake cable attachment
   - Improper contact with the adjuster
6. If any of the conditions listed were found, which could lead to improper park brake apply and/or release, the park brake lever requires repair or replacement.
7. Visually inspect the park brake cable for the following:
   - Improper mounting to the backing plate
   - Improper mounting at the park brake lever
   - Broken or missing cable end lug
8. If any of the conditions listed were found, which could lead to improper park brake apply and/or release, the park brake cable requires repair or replacement.
9. Apply the park brake lever/pedal three clicks.
10. Visually inspect the park brake cable for the following:
    - Unequal travel between the left and the right park brake systems
    - No travel on one or both of the park brake systems
11. If any of the conditions listed were found, which could lead to improper park brake apply and/or release, the park brake cable requires replacement and/or adjustment.
12. Release the park brake lever/pedal.
13. Visually inspect the park brake cable for the following:
    - Unequal release between the left and the right park brake systems
    - No release at one or both of the park brake systems
14. If any of the conditions listed were found, which could lead to improper park brake apply and/or release, the park brake cable requires replacement and/or adjustment.

PARKING BRAKE SHOE INSPECTION

WARNING: Refer to Brake Dust Warning .

1. Raise and support the vehicle. Refer to **Lifting and Jacking the Vehicle** .
2. Remove the tire and wheel assembly. Refer to **Tire and Wheel Removal and Installation (6-Lug Wheel)** **Tire and Wheel Removal and Installation (8-Lug Wheel)** **Tire and Wheel Removal and Installation (Dual Rear Wheels)** .
3. Remove the rear brake caliper bracket with the rear brake caliper. Refer to **Rear Brake Caliper Bracket Replacement (JD9)** **Rear Brake Caliper Bracket Replacement (J95, J96)** .

NOTE: DO NOT apply the park brake pedal with the rotors removed.

4. Remove the rear brake rotor. Refer to **Rear Brake Rotor Replacement (JD9)** **Rear Brake Rotor**

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Replacement (J95) Rear Brake Rotor Replacement (J96) .

5. Inspect and replace the park brake shoe and lining if any of the following conditions are found:
    - Excessive wear indicated by the park brake lining being worn down to the shoe
    - Park brake lining cracking
    - Oil or fluid contamination of the park brake lining
6. Adjust the park brake shoe. Refer to Parking Brake Adjustment.
7. Install the rear brake rotor. Refer to Rear Brake Rotor Replacement (JD9) Rear Brake Rotor Replacement (J95) Rear Brake Rotor Replacement (J96) .
8. Install the rear brake caliper with the rear brake caliper bracket. Refer to Rear Brake Caliper Bracket Replacement (JD9) Rear Brake Caliper Bracket Replacement (J95, J96) .
9. Install the tire and wheel assembly. Refer to Tire and Wheel Removal and Installation (6-Lug Wheel) Tire and Wheel Removal and Installation (8-Lug Wheel) Tire and Wheel Removal and Installation (Dual Rear Wheels) .
10. Lower the vehicle.

REPAIR INSTRUCTIONS

PARKING BRAKE SHOE REPLACEMENT (JD9)

Removal Procedure

WARNING: Refer to Brake Dust Warning .

1. Disable the parking brake cable adjuster. Refer to Parking Brake Cable Adjuster Disabling.
2. Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle .
3. Remove the rear tire and wheel assembly. Refer to Tire and Wheel Removal and Installation (6-Lug Wheel) Tire and Wheel Removal and Installation (8-Lug Wheel) Tire and Wheel Removal and Installation (Dual Rear Wheels) .
4. Remove the rear disc brake rotor. Refer to Rear Brake Rotor Replacement (JD9) .

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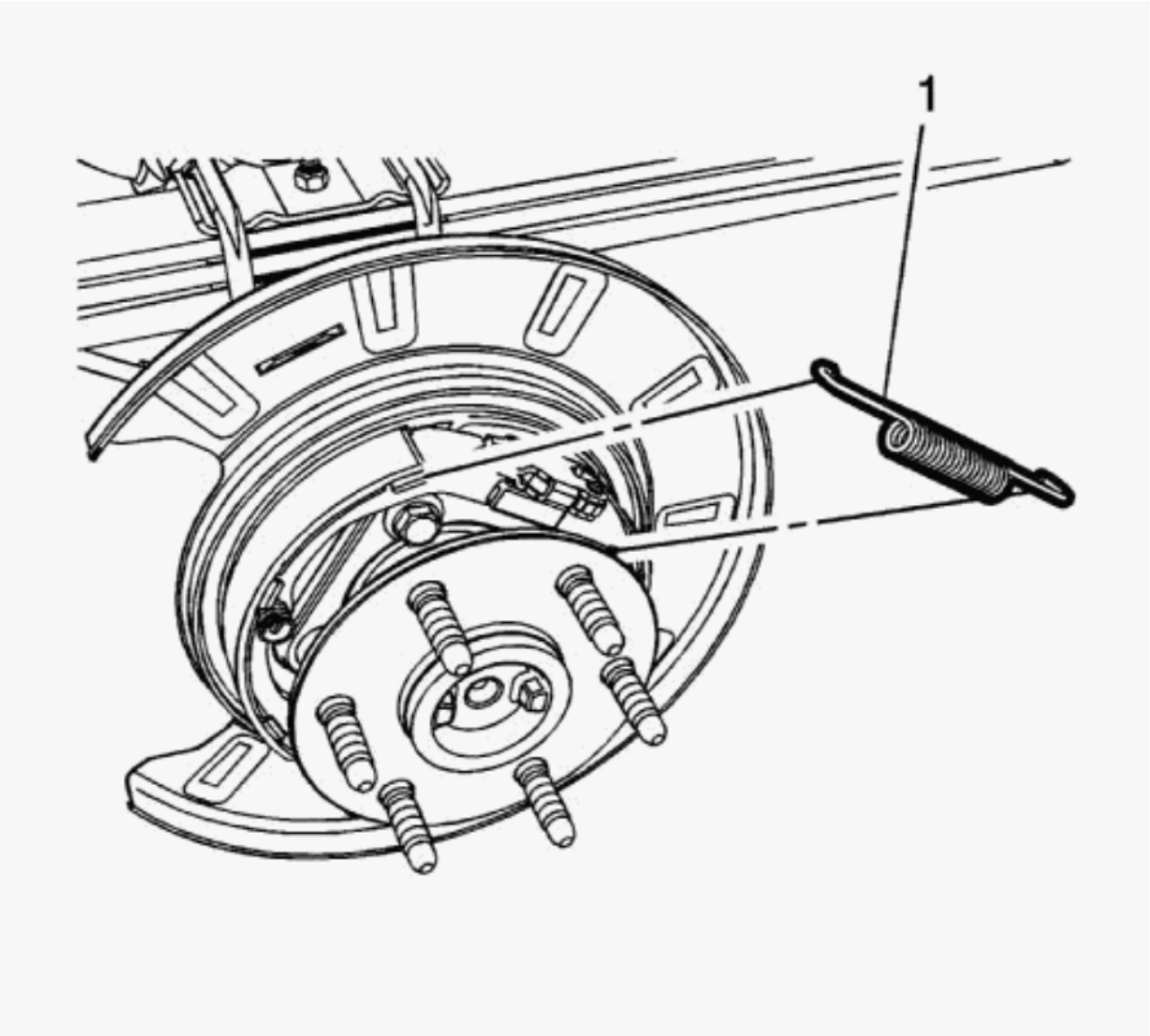


Fig. 1: Park Brake Shoe Upper Return Spring
Courtesy of GENERAL MOTORS COMPANY

5. Remove the park brake shoe upper return spring (1).

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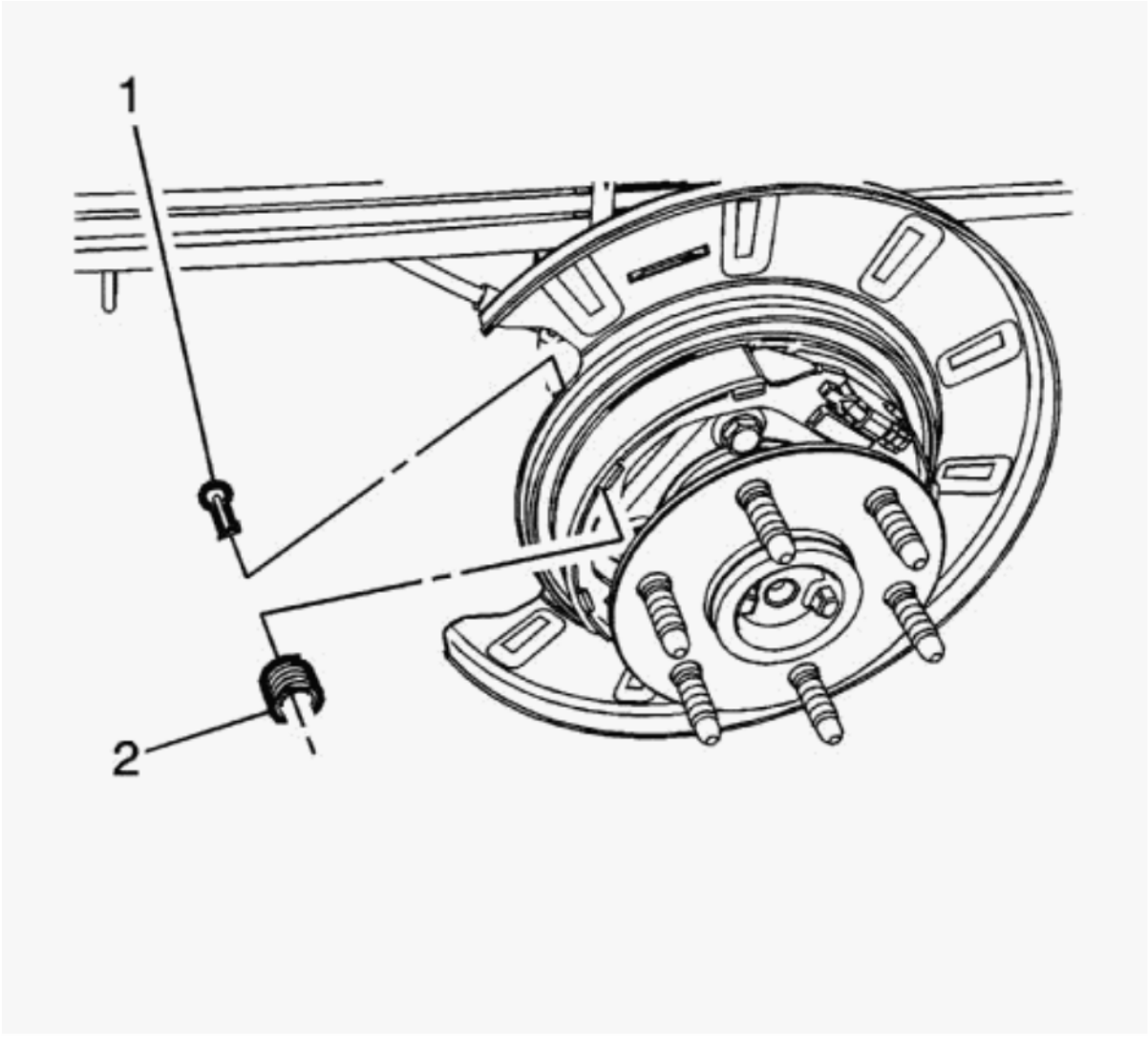


Fig. 2: Holding Forward Hold Down Spring Pin Stationary
Courtesy of GENERAL MOTORS COMPANY

6. Hold the forward hold down spring pin (1) stationary and compress the hold down spring (2).
7. Rotate the hold down spring 1/4 turn and remove the hold down spring and pin.

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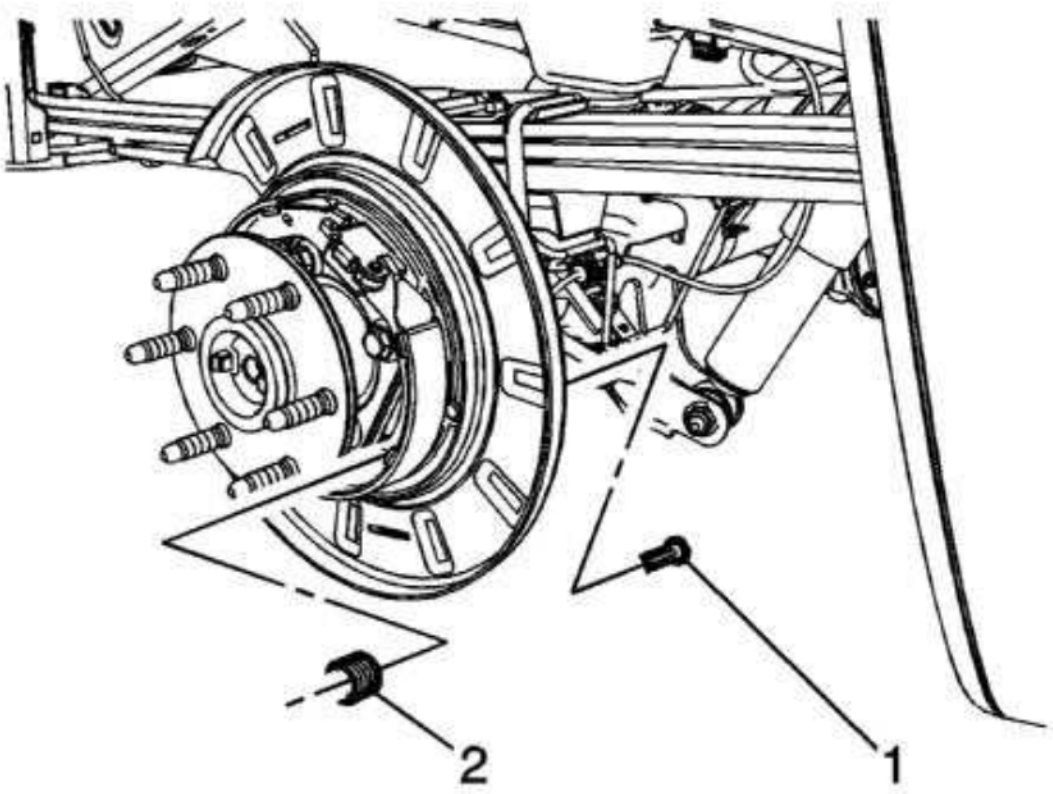


Fig. 3: Rear Hold Down Spring Pin And Hold Down Spring
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8. Hold the rear hold down spring pin (1) stationary and compress the hold down spring (2).
9. Rotate the hold down spring 1/4 turn and remove the hold down spring and pin.

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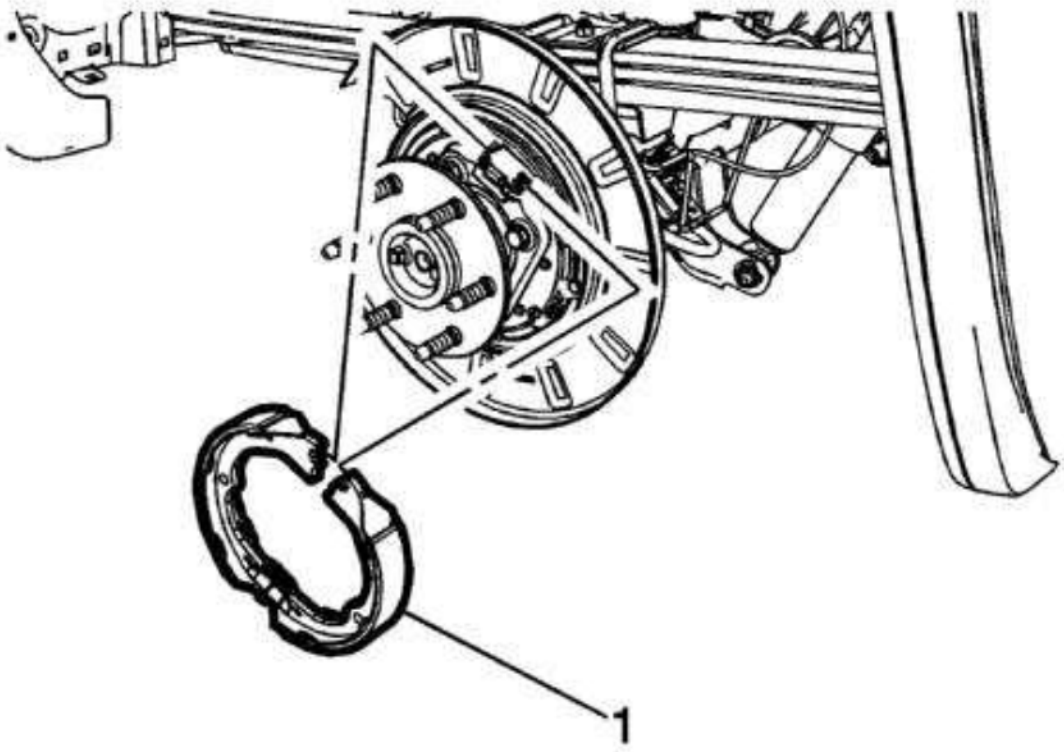


Fig. 4: Park Brake Shoes
Courtesy of GENERAL MOTORS COMPANY

10. Remove the park brake shoes (1) by grasping the shoes near the park brake shoe actuator, spread the park brake shoes apart and lift around the rear axle hub.

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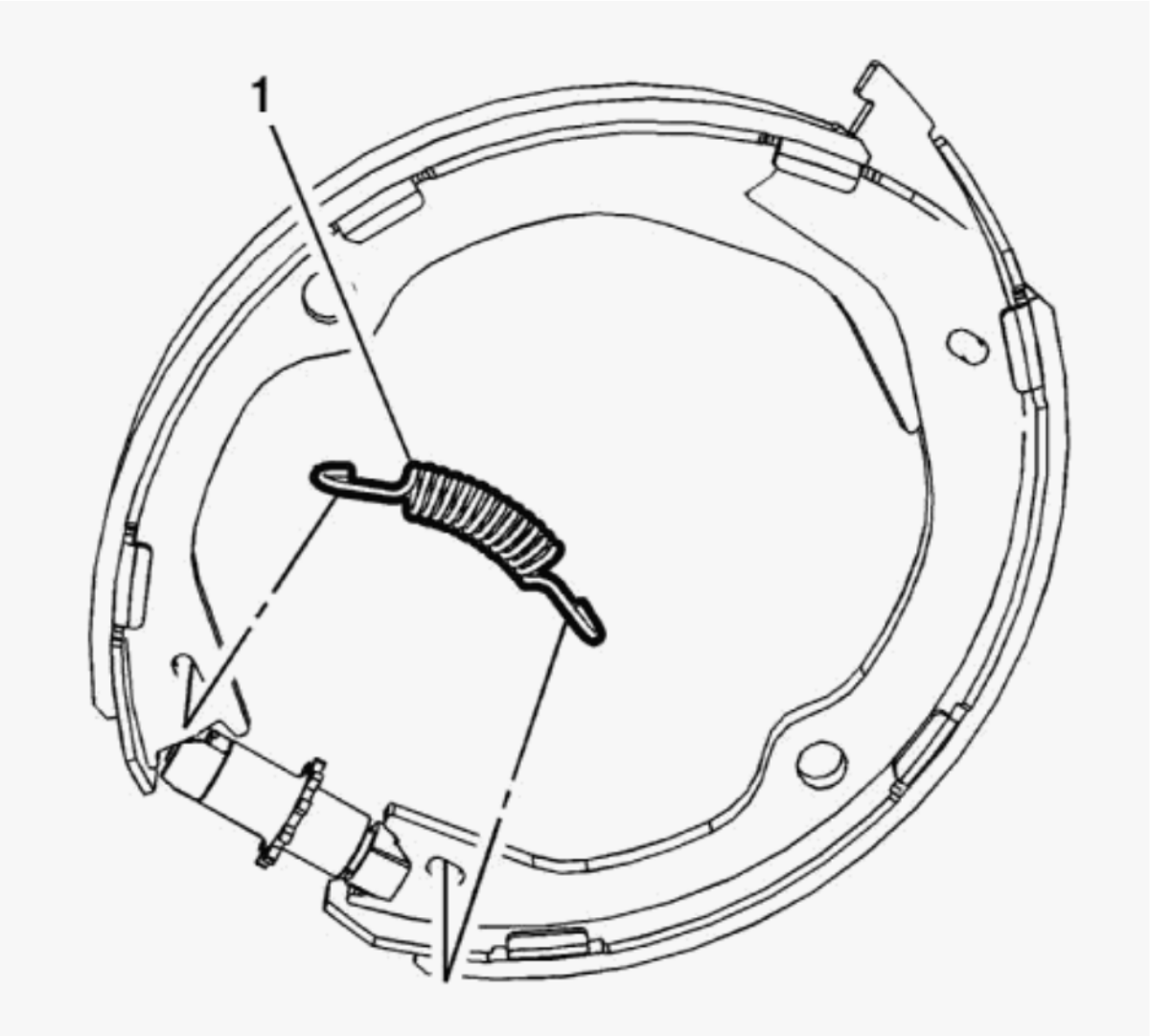


Fig. 5: Park Brake Shoe Lower Return Spring
Courtesy of GENERAL MOTORS COMPANY

11. Cross the top of one of the park brake shoes over the opposite park brake shoe.
12. Remove the park brake shoe lower return spring (1).

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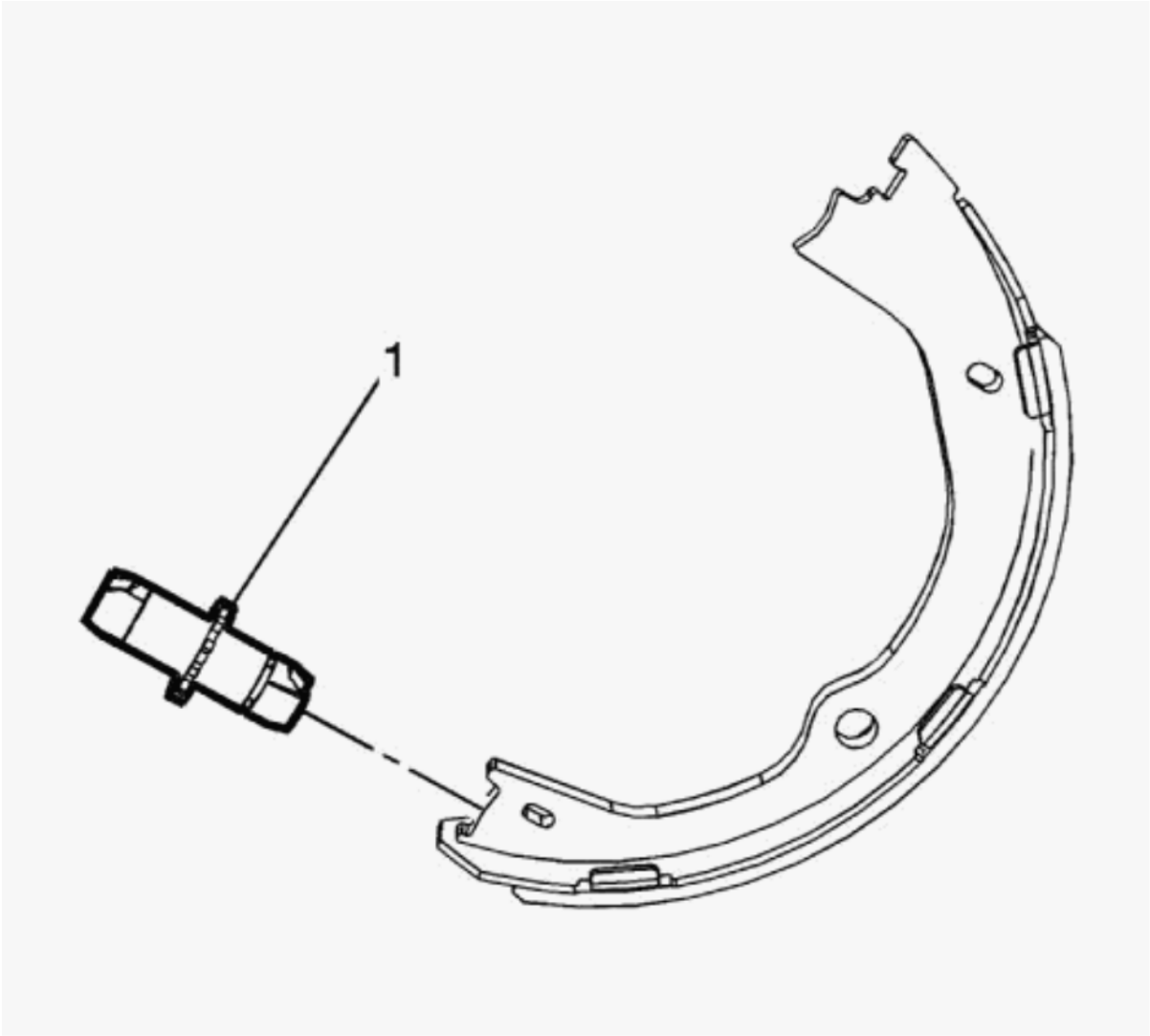


Fig. 6: Park Brake Shoe Adjuster
Courtesy of GENERAL MOTORS COMPANY

13. Remove the park brake shoe adjuster (1).

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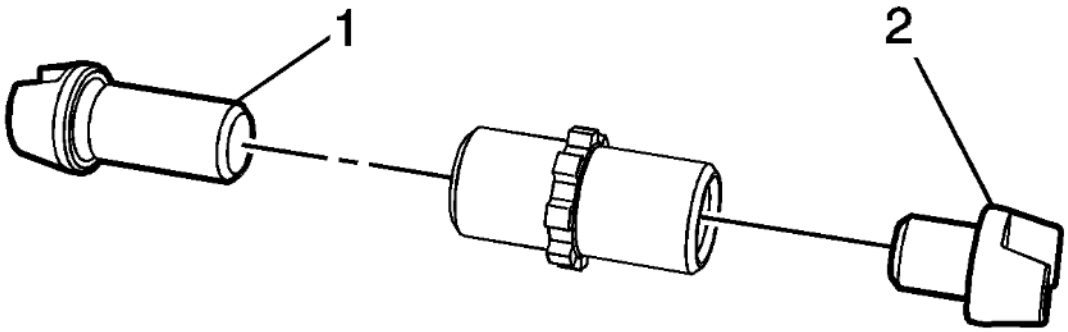


Fig. 7: Disassembled View Of Park Brake Shoe Adjuster
Courtesy of GENERAL MOTORS COMPANY

14. Disassemble the park brake shoe adjuster.
15. Clean the park brake shoe adjuster components of any corrosion or debris.
16. Lubricate the park brake shoe adjuster threads (1) with high temperature brake lubricant.
17. Lubricate the park brake shoe adjuster clevis (2) with high temperature brake lubricant.
18. Assemble the park brake shoe adjuster to the fully retracted position.

Installation Procedure

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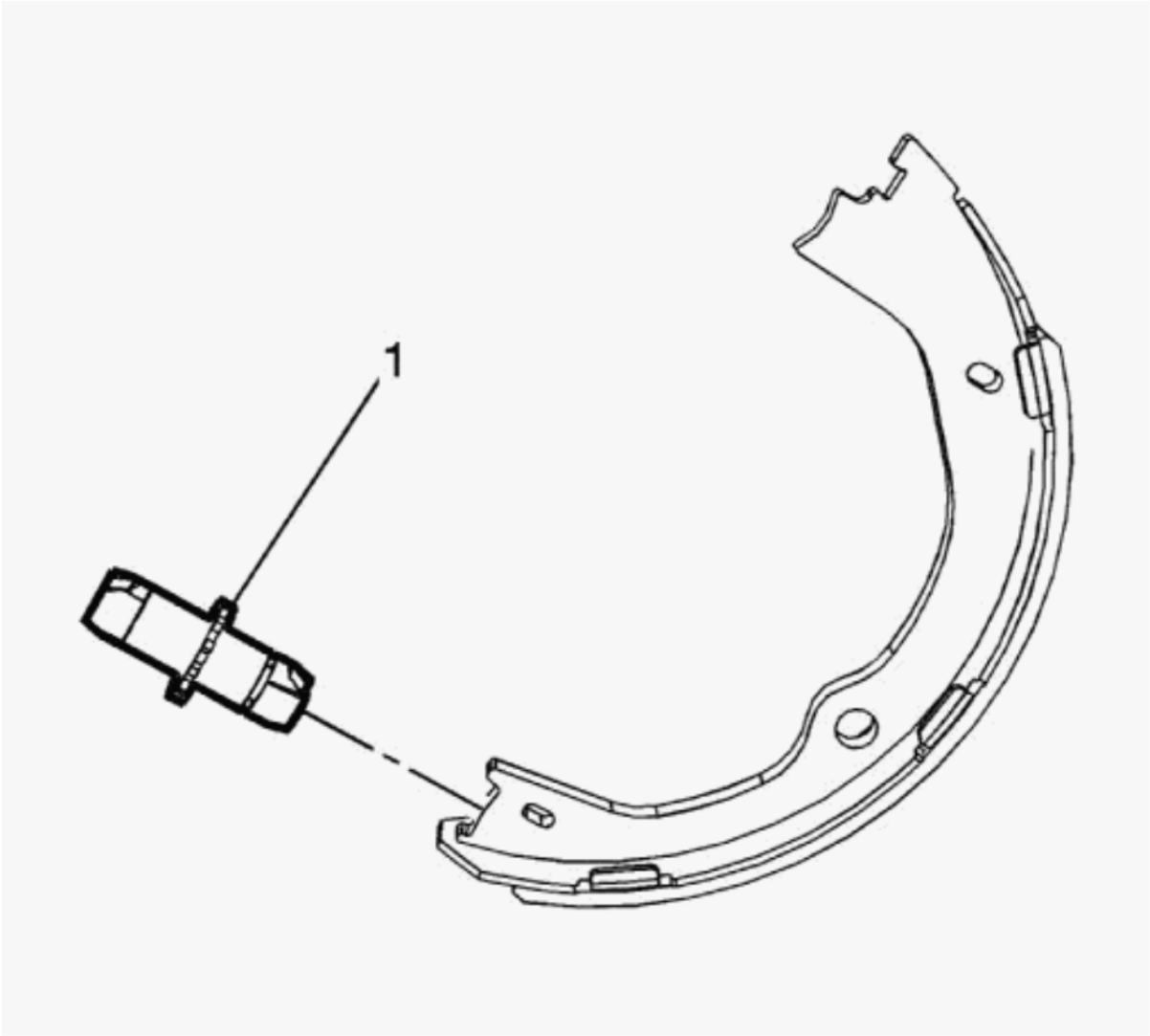


Fig. 8: Park Brake Shoe Adjuster
Courtesy of GENERAL MOTORS COMPANY

1. Install the park brake shoe adjuster (1) to the park brake shoes.

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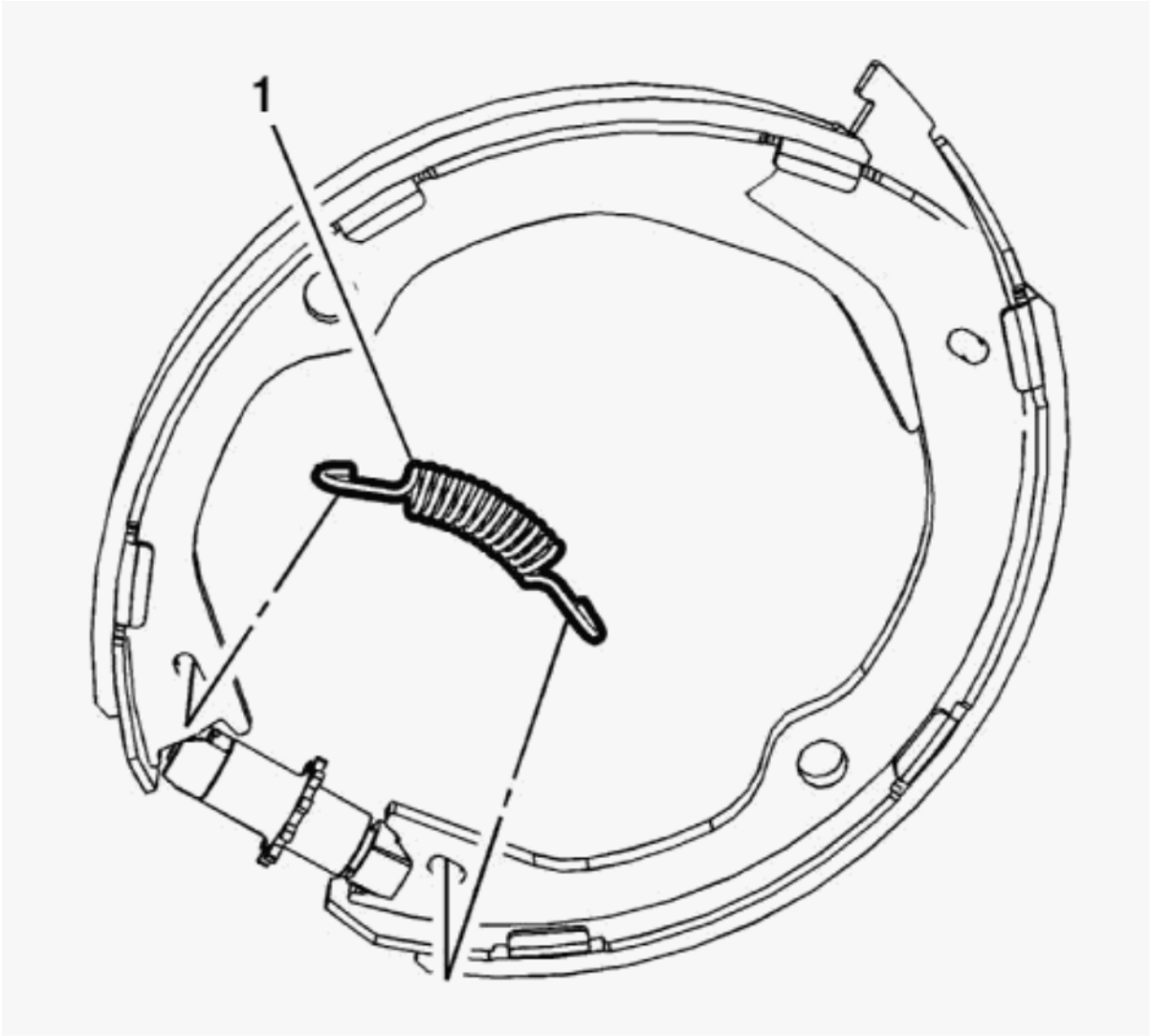


Fig. 9: Park Brake Shoe Lower Return Spring
Courtesy of GENERAL MOTORS COMPANY

2. Cross the top of one of the park brake shoe over the opposite park brake shoe.
3. Install the park brake shoe return spring (1).
4. Clean the rear brake shield.
5. Apply high temperature brake lubricant to the park brake shoe to rear brake shield contact points.

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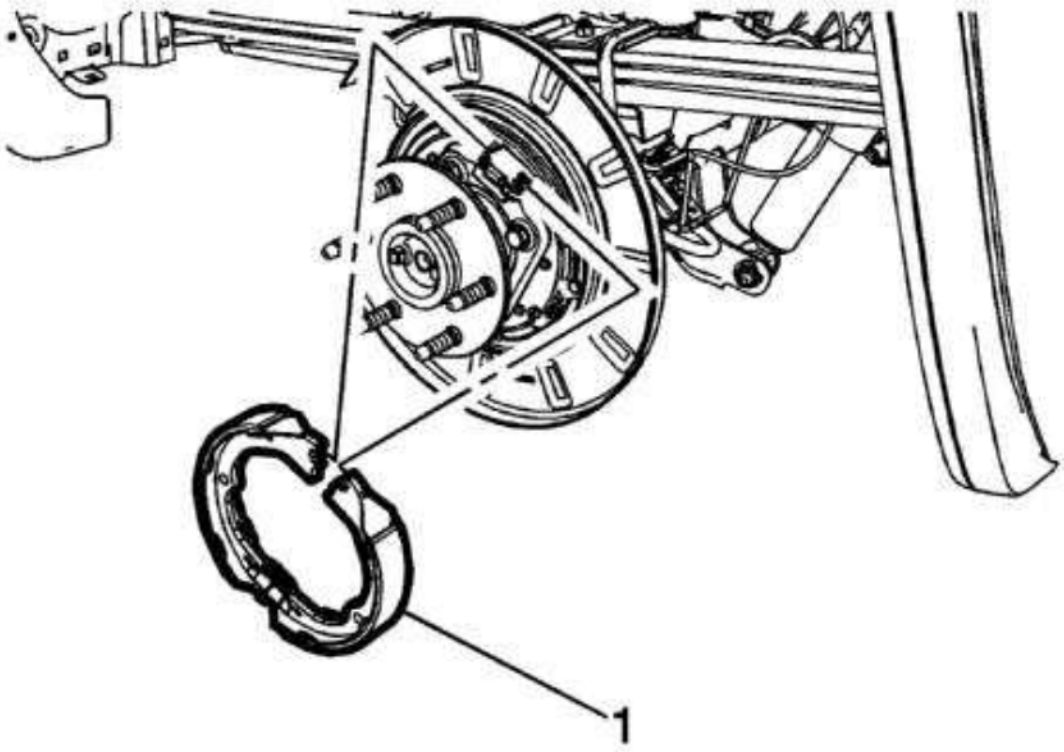


Fig. 10: Park Brake Shoes
Courtesy of GENERAL MOTORS COMPANY

6. Install the park brake shoes (1) by grasping the shoes near the park brake shoe actuator, spread the park brake shoes apart and lift around the rear axle hub.

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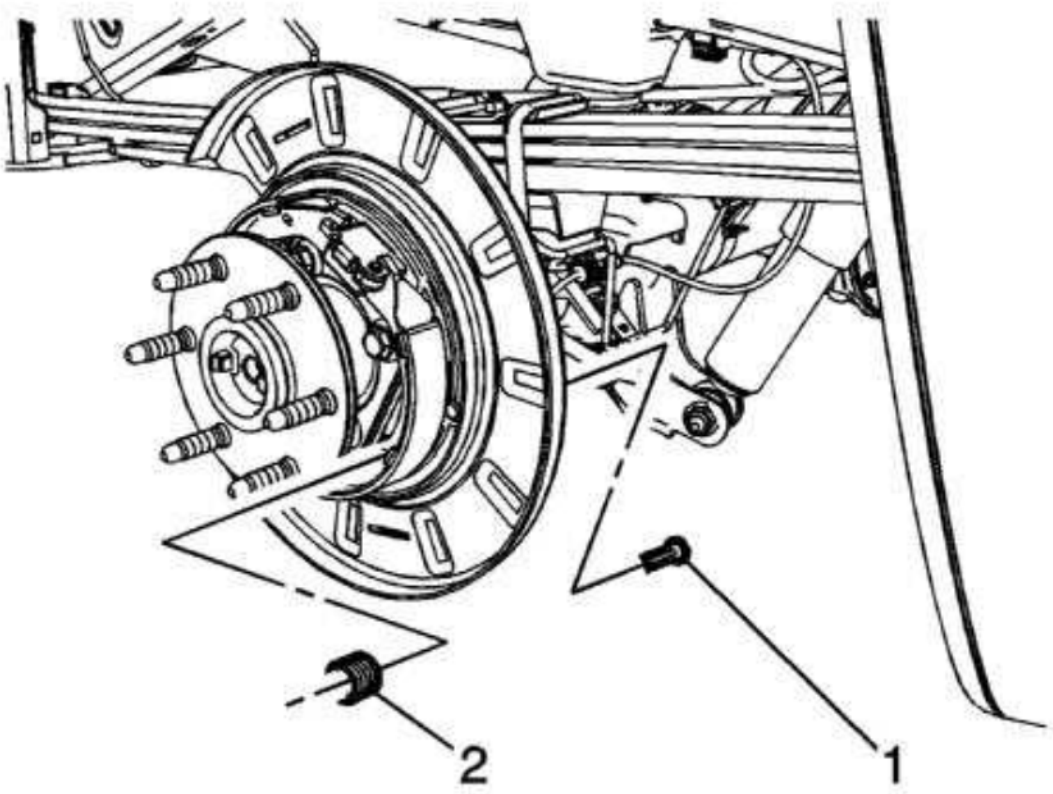


Fig. 11: Rear Hold Down Spring Pin And Hold Down Spring
Courtesy of GENERAL MOTORS COMPANY

7. Install the rear hold down spring pin (1) through the rear brake shield.
8. Compress the park brake shoe hold down spring (2) and rotate the spring 1/4 turn to install the hold down spring pin.

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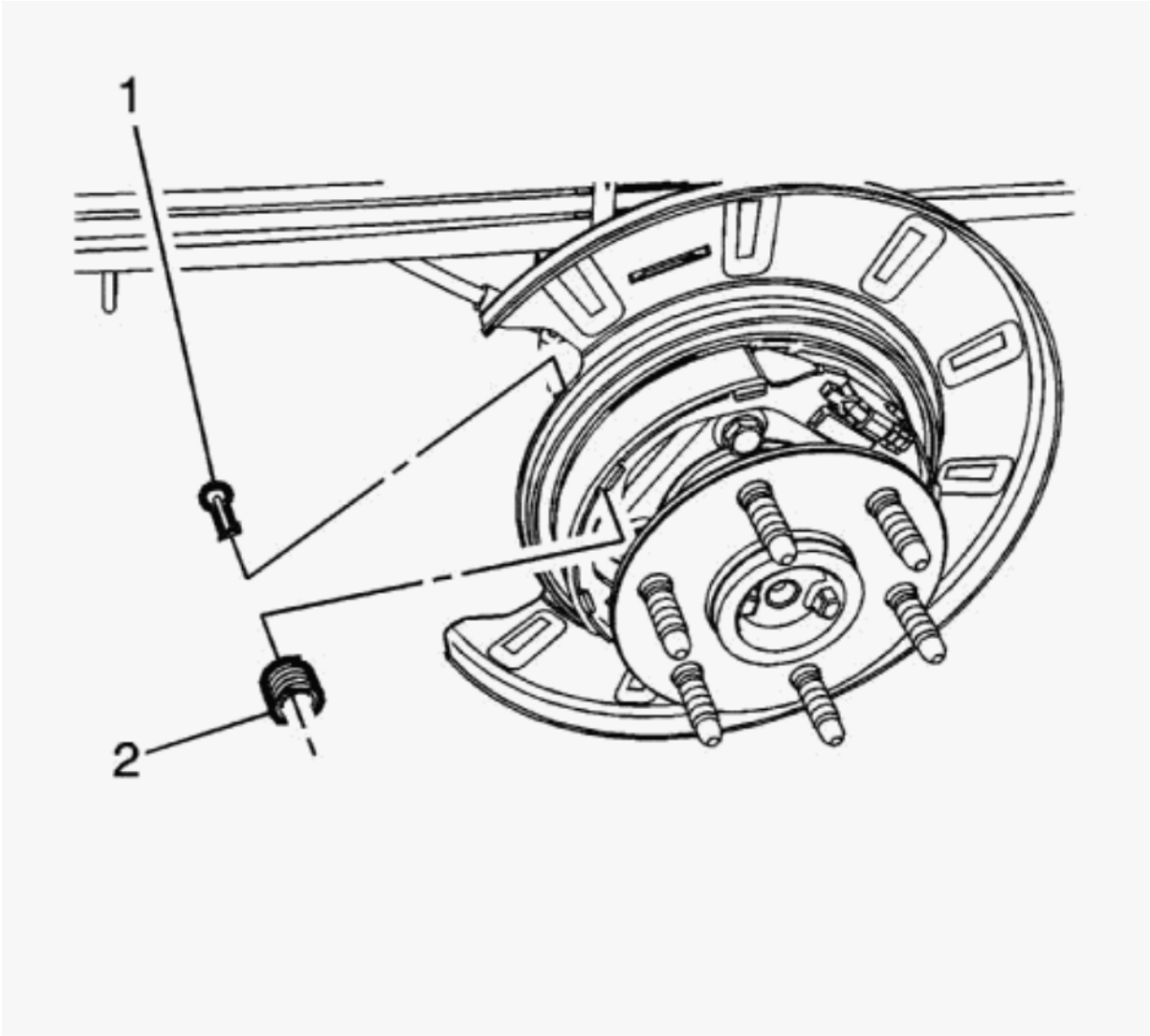


Fig. 12: Holding Forward Hold Down Spring Pin Stationary
Courtesy of GENERAL MOTORS COMPANY

9. Install the forward hold down spring pin (1) through the rear brake shield.
10. Compress the park brake shoe hold down spring (2) and rotate the spring 1/4 turn to install the hold down spring pin.

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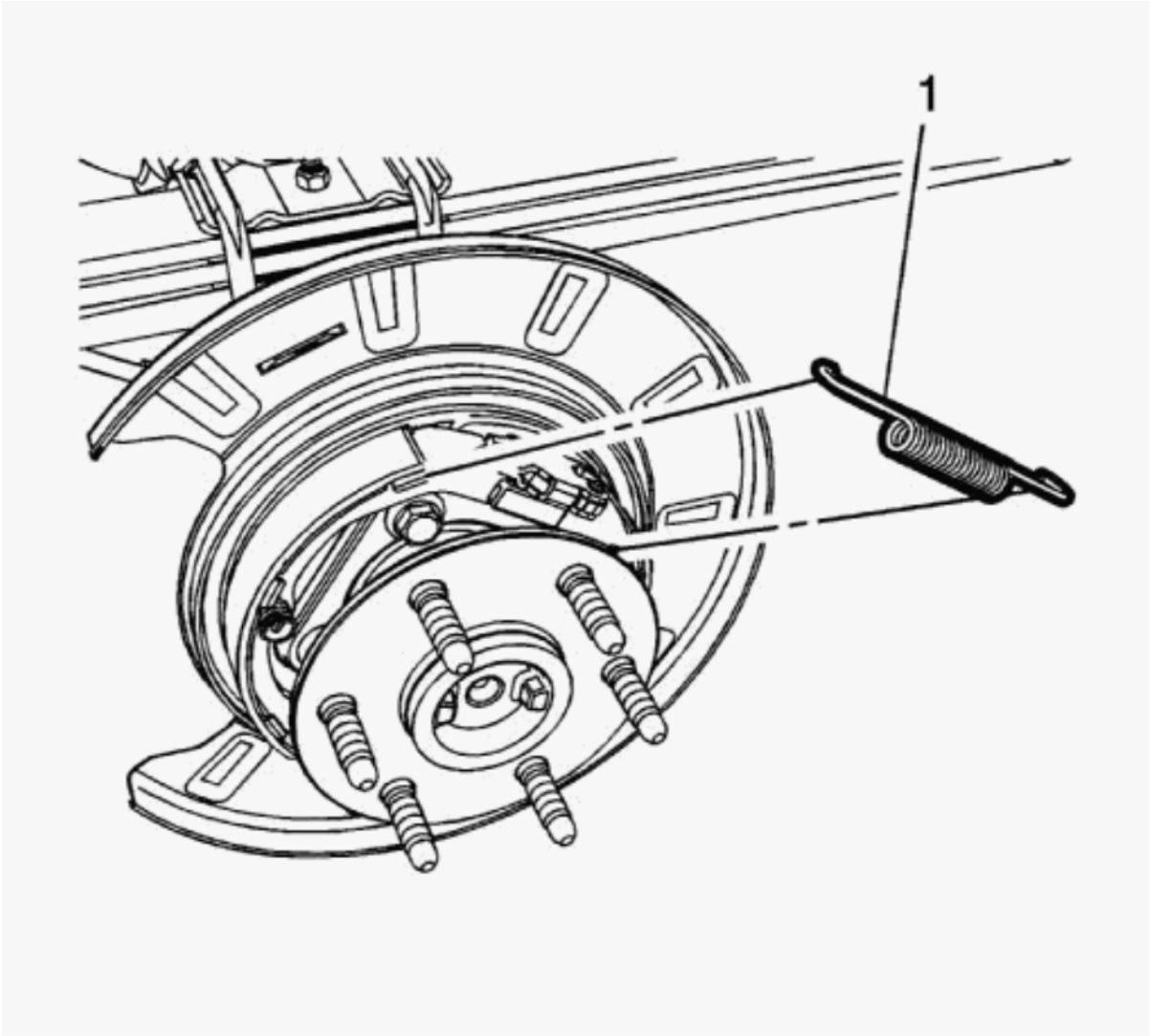


Fig. 13: Park Brake Shoe Upper Return Spring
Courtesy of GENERAL MOTORS COMPANY

11. Install the park brake shoe upper return spring (1).
12. Adjust the parking brake. Refer to **Parking Brake Adjustment**.
13. Install the rear brake rotor. Refer to **Rear Brake Rotor Replacement (JD9)** .
14. Install the tire and wheel assembly. Refer to **Tire and Wheel Removal and Installation (6-Lug Wheel)** **Tire and Wheel Removal and Installation (8-Lug Wheel)** **Tire and Wheel Removal and Installation (Dual Rear Wheels)** .
15. Enable the parking brake cable adjuster. Refer to **Parking Brake Cable Adjuster Enabling**.

PARKING BRAKE SHOE REPLACEMENT (J95, J96)

Removal Procedure

WARNING: **Refer to Brake Dust Warning .**

NOTE: **Left side park brake assembly shown. Right side park brake assembly is inverted.**

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1. Release the park brake.
2. Raise and support the vehicle. Refer to **Lifting and Jacking the Vehicle** .
3. Remove the tire and wheel assembly. Refer to **Tire and Wheel Removal and Installation (6-Lug Wheel)** **Tire and Wheel Removal and Installation (8-Lug Wheel)** **Tire and Wheel Removal and Installation (Dual Rear Wheels)** .

NOTE: **If equipped with RPO J96, it is not necessary to separate the rear brake rotor from the wheel hub.**

4. Remove the rear brake rotor. Refer to **Rear Brake Rotor Replacement (J95)** **Rear Brake Rotor Replacement (J96)** .

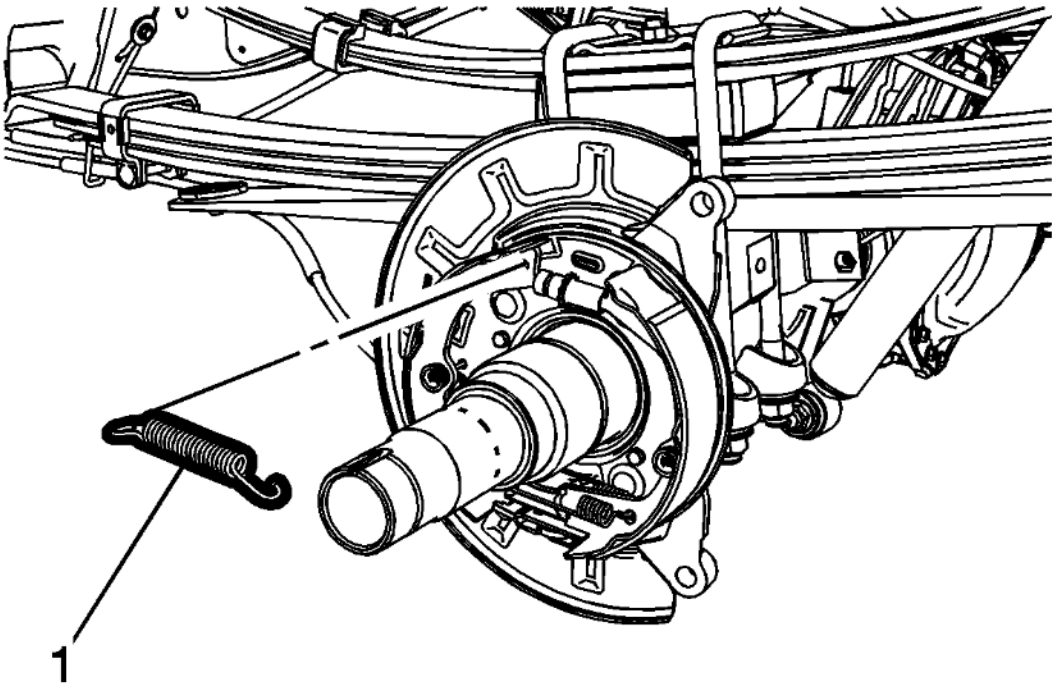


Fig. 14: Parking Brake Shoe Adjuster Spring
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5. Remove the parking brake shoe adjuster spring (1).

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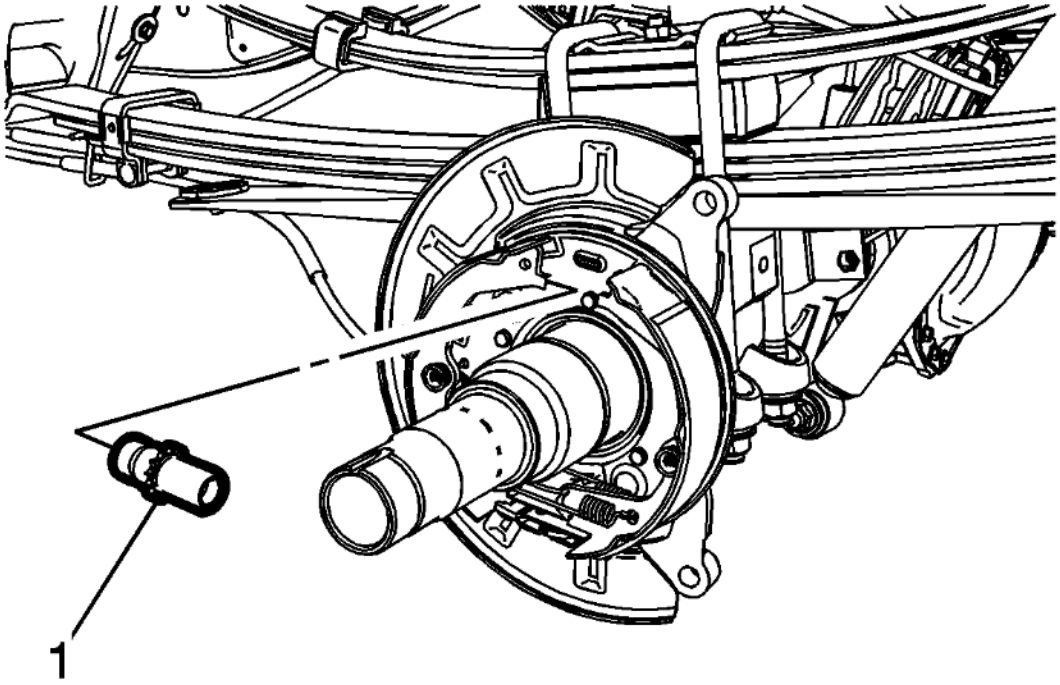


Fig. 15: Parking Brake Shoe Adjuster
Courtesy of GENERAL MOTORS COMPANY

6. Remove the parking brake shoe adjuster (1).

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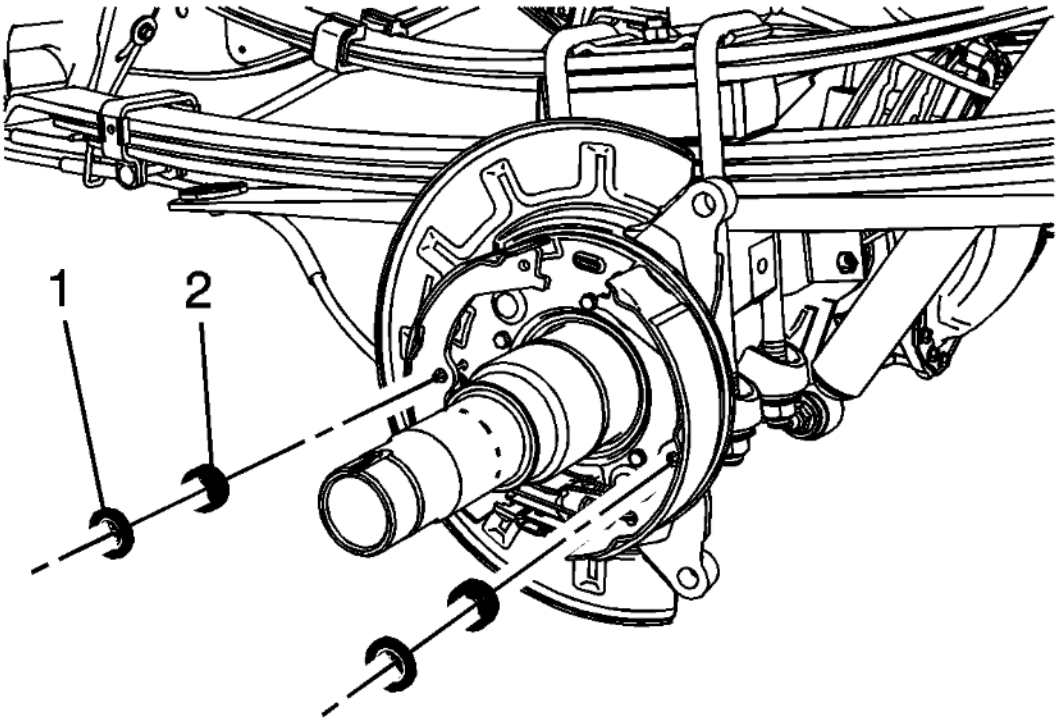


Fig. 16: Parking Brake Shoe Hold Down Cups And Springs
Courtesy of GENERAL MOTORS COMPANY

7. Remove the parking brake shoe hold down cups (1) and springs (2) by compressing the springs and rotating the cups 1/4 turn to disengage the cups from the hold down spring pins.

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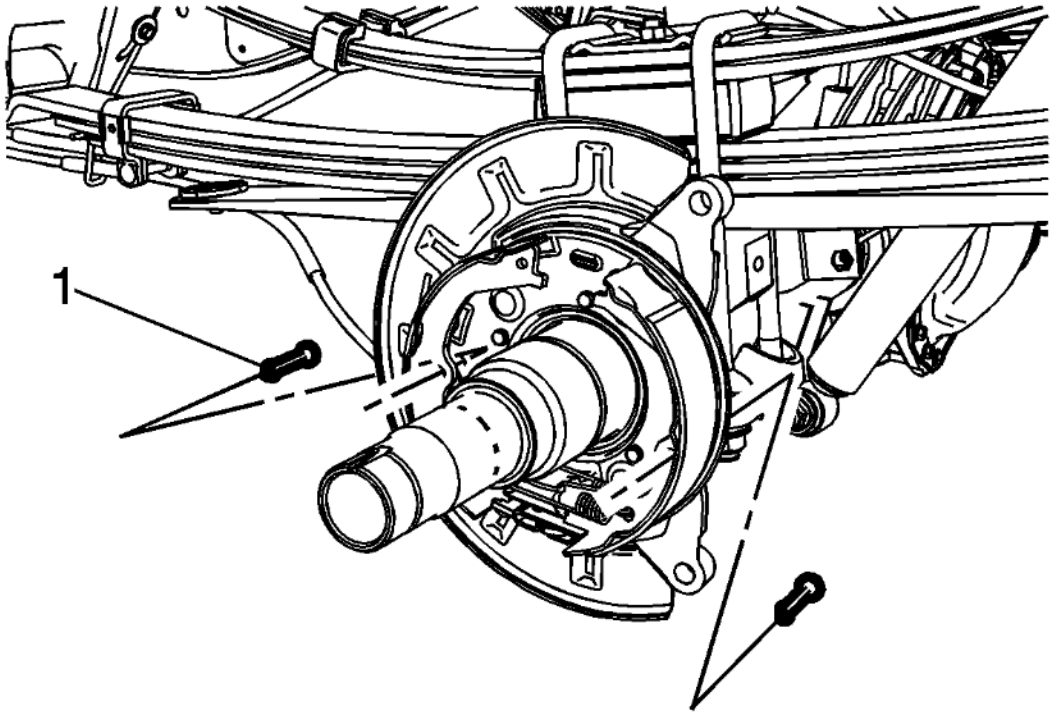


Fig. 17: Parking Brake Shoe Hold Down Spring Pins
Courtesy of GENERAL MOTORS COMPANY

8. Remove the parking brake shoe hold down spring pins (1).

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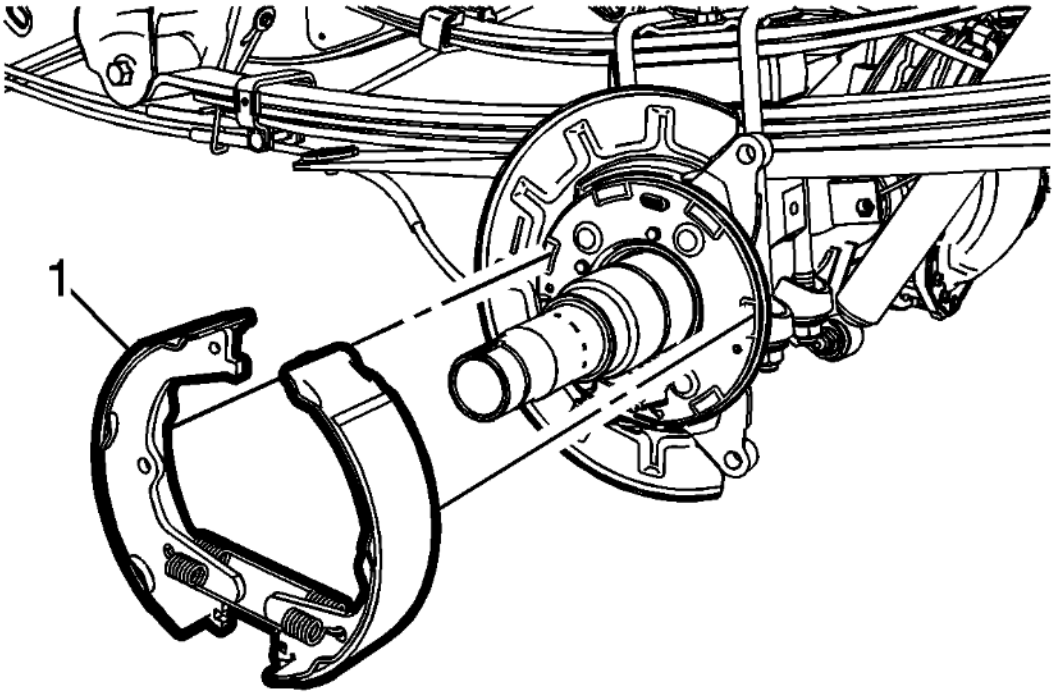


Fig. 18: Parking Brake Shoes
Courtesy of GENERAL MOTORS COMPANY

9. Grasp the parking brake shoes (1) and pull out and upward to release the parking brake shoes from the parking brake shoe actuator.
10. Pull the parking brake shoe over the parking brake shoe actuator and remove the parking brake shoes as an assembly.

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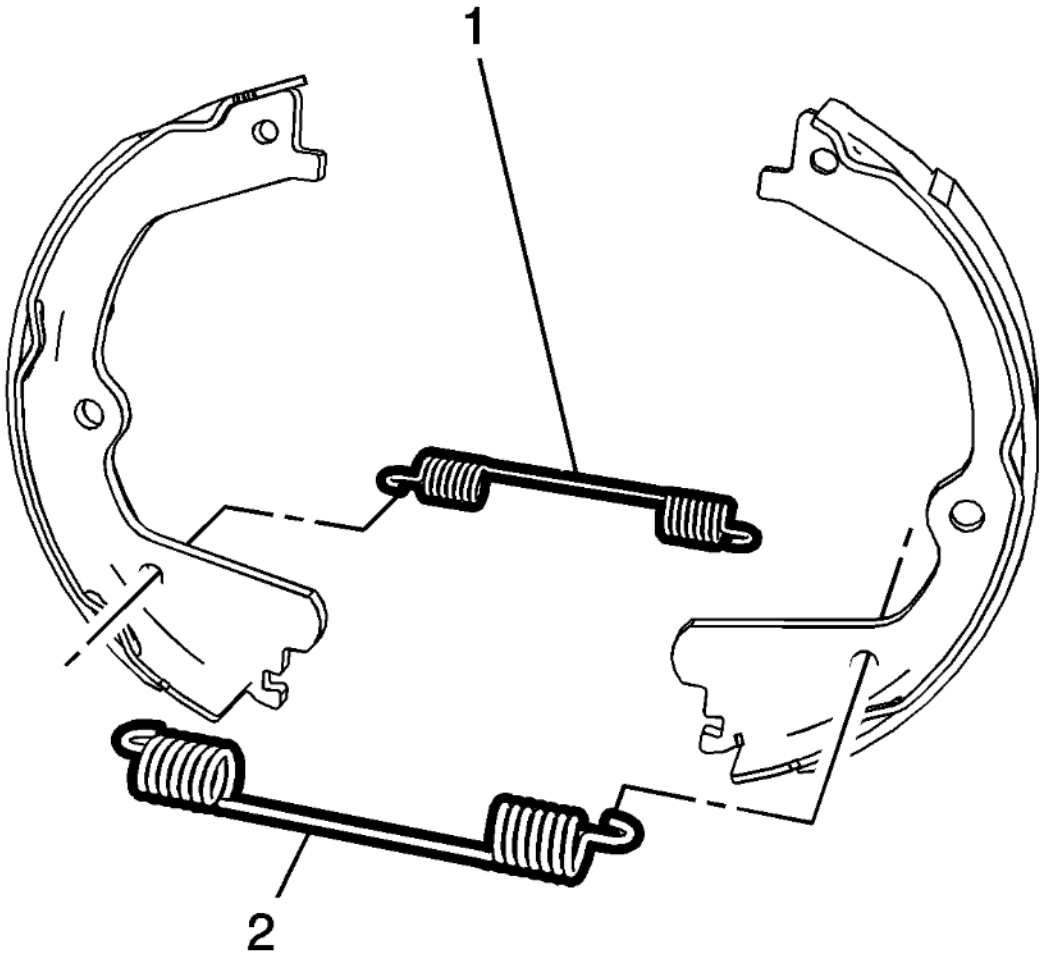


Fig. 19: Inner And Outer Parking Brake Shoe Return Springs
Courtesy of GENERAL MOTORS COMPANY

NOTE: **Notice the position of the outer and inner return springs.**

11. Remove the inner parking brake shoe return spring (1).
12. Remove the outer parking brake shoe return spring (2).
13. Clean the parking brake shoe contact surfaces on the rear brake shield.

Installation Procedure

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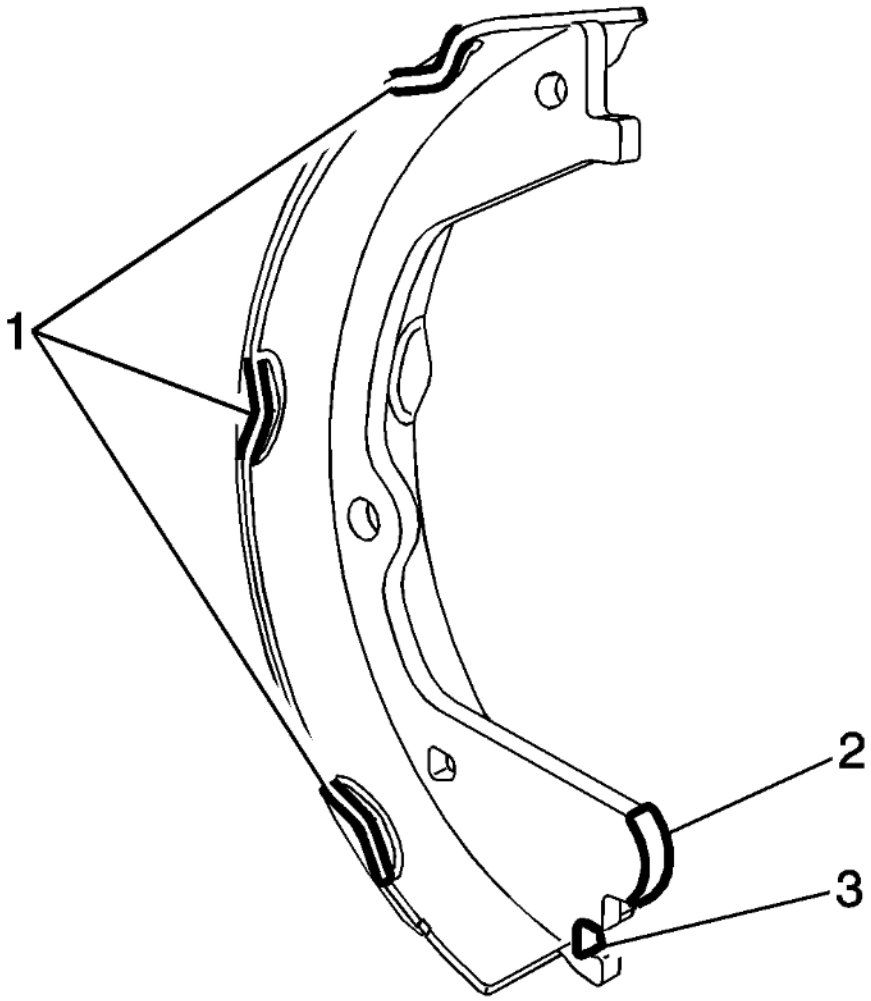


Fig. 20: Parking Brake Shoe Contact Surfaces
Courtesy of GENERAL MOTORS COMPANY

1. Apply high temperature brake lubricant to the parking brake shoe contact surfaces.
    - Brake shoe to shield contact (1)
    - Anchor contact (2)
    - Actuator link contact (3)

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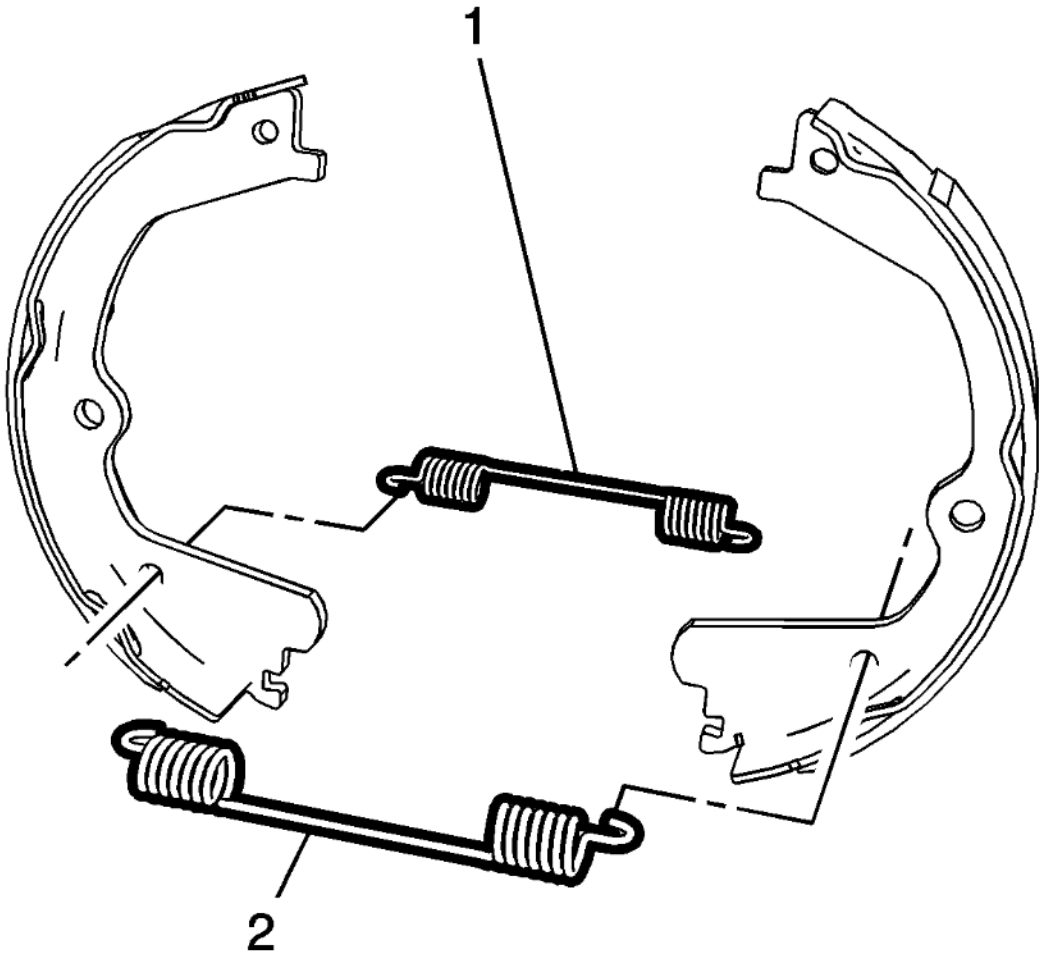


Fig. 21: Inner And Outer Parking Brake Shoe Return Springs
Courtesy of GENERAL MOTORS COMPANY

NOTE: **The outer parking brake shoe return spring must be installed closest to the parking brake actuator.**

2. Install the inner parking brake shoe return spring (1).
3. Install the outer parking brake shoe return spring (2).

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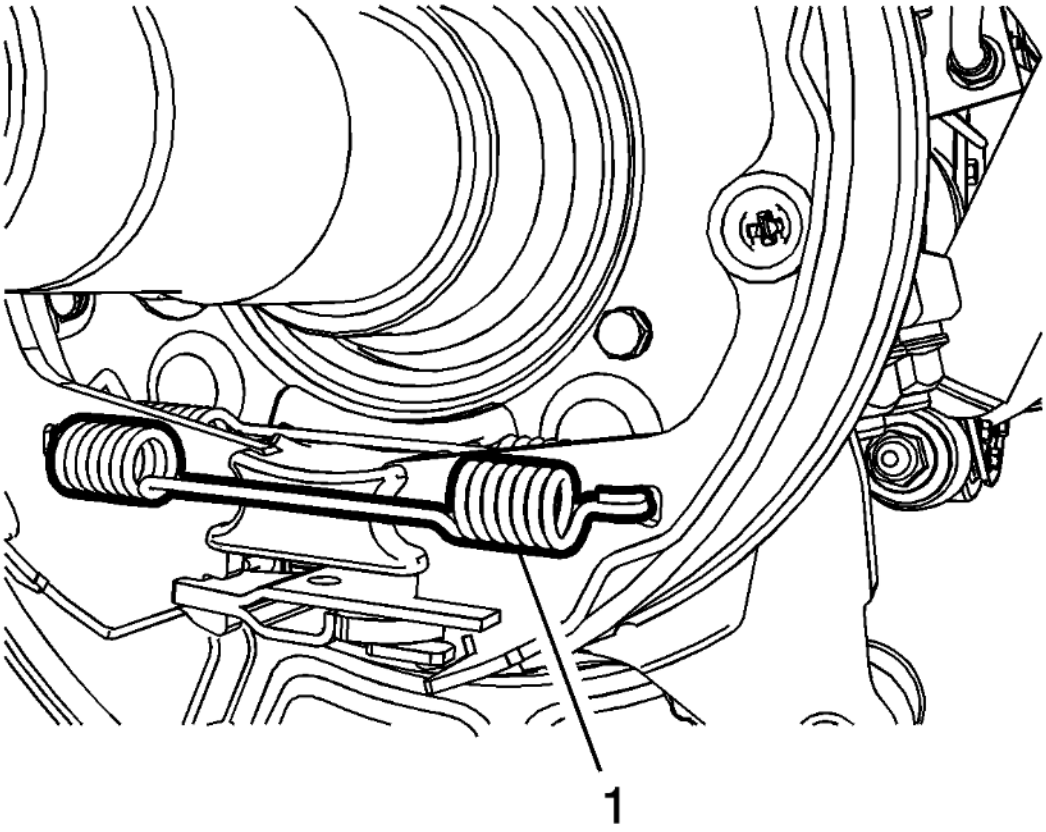


Fig. 22: Outer Parking Brake Shoe Return Spring
Courtesy of GENERAL MOTORS COMPANY

4. Ensure the outer parking brake shoe return spring (1) is installed closest to the parking brake actuator.
5. Position the parking brake shoe assembly to the rear brake shield.

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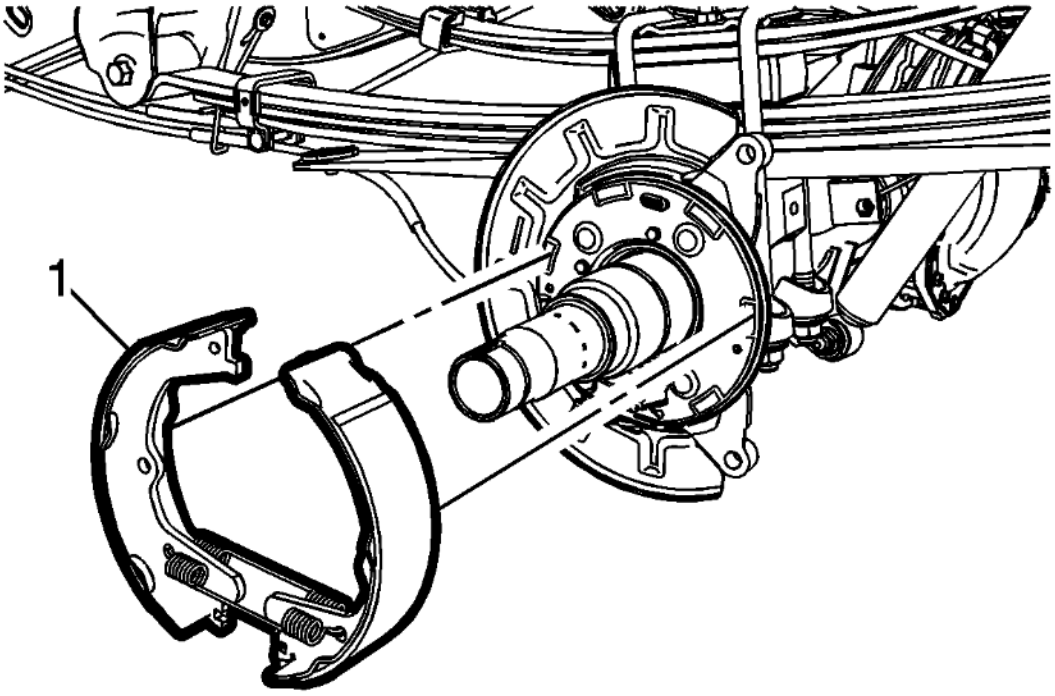


Fig. 23: Parking Brake Shoes
Courtesy of GENERAL MOTORS COMPANY

6. Grasp the parking brake shoes (1) and pull the parking brake shoes over the parking brake backing plate anchor.

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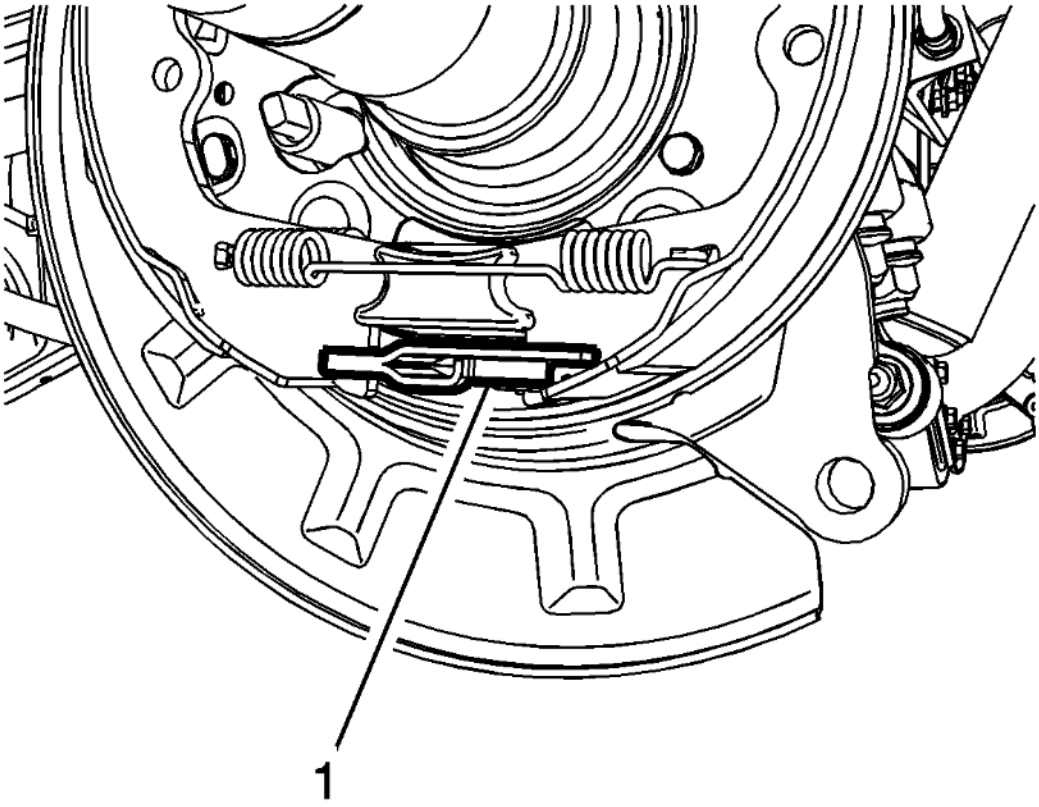


Fig. 24: Parking Brake Actuator
Courtesy of GENERAL MOTORS COMPANY

7. Seat the parking brake shoes in the parking brake actuator (1).

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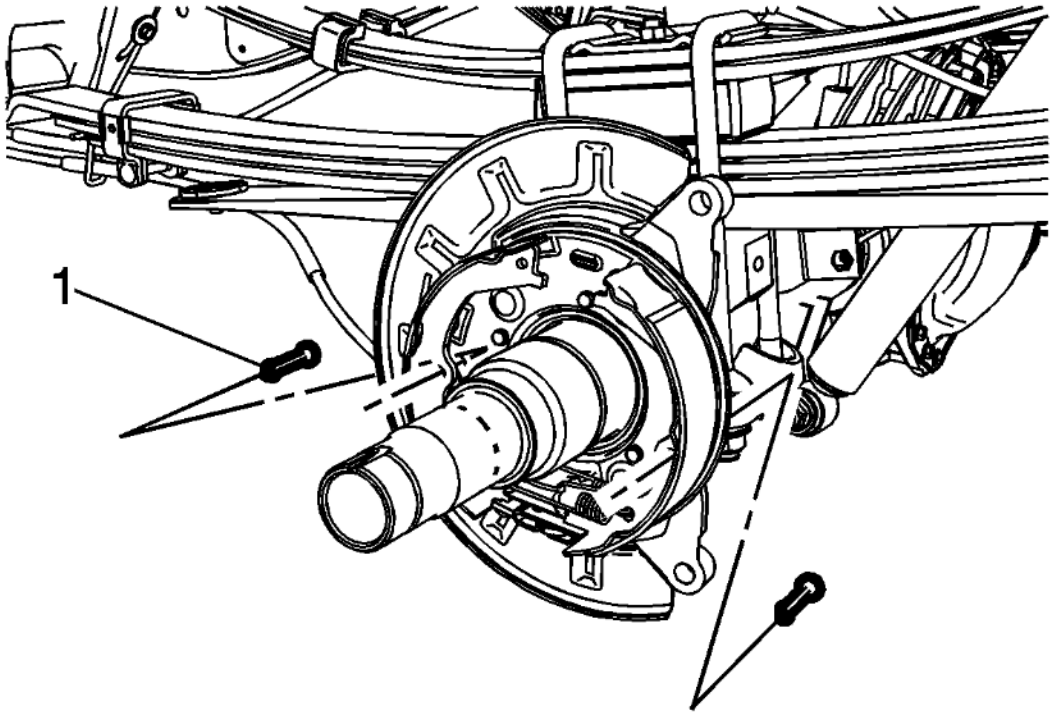


Fig. 25: Parking Brake Shoe Hold Down Spring Pins
Courtesy of GENERAL MOTORS COMPANY

8. Install the parking brake shoe hold down spring pins (1).

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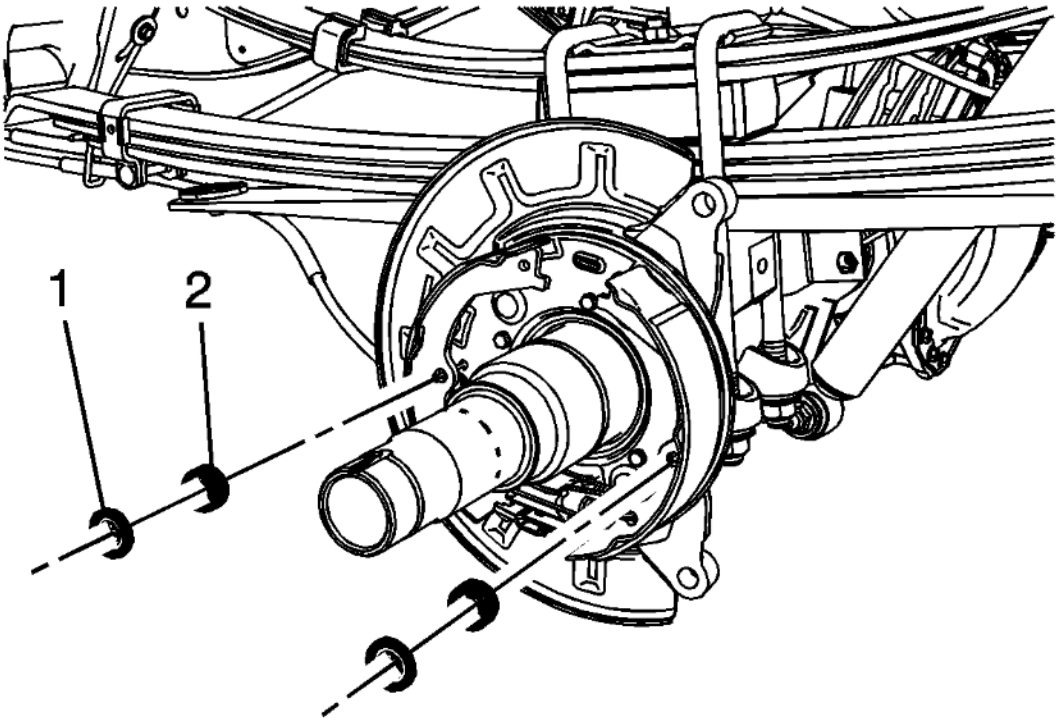


Fig. 26: Parking Brake Shoe Hold Down Cups And Springs
Courtesy of GENERAL MOTORS COMPANY

9. Install the parking brake shoe hold down cups (1) and springs (2).
10. Disassemble and clean the parking brake shoe adjuster assembly threads.
11. Apply high temperature brake lubricant to the threads of the parking brake shoe adjuster.

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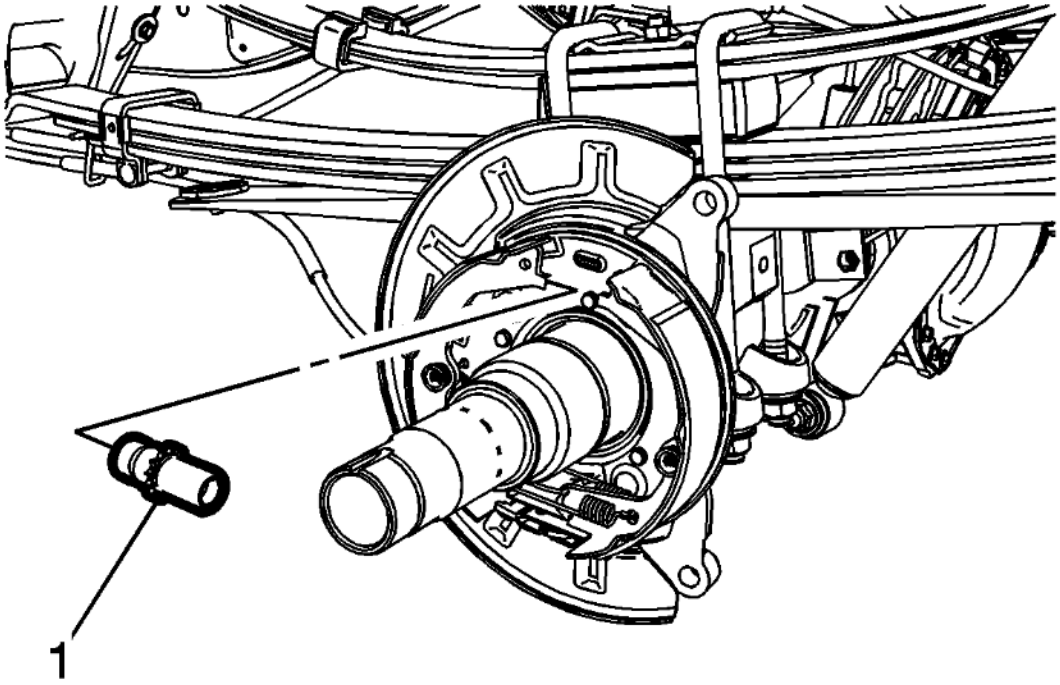


Fig. 27: Parking Brake Shoe Adjuster
Courtesy of GENERAL MOTORS COMPANY

12. Install the parking brake shoe adjuster (1).

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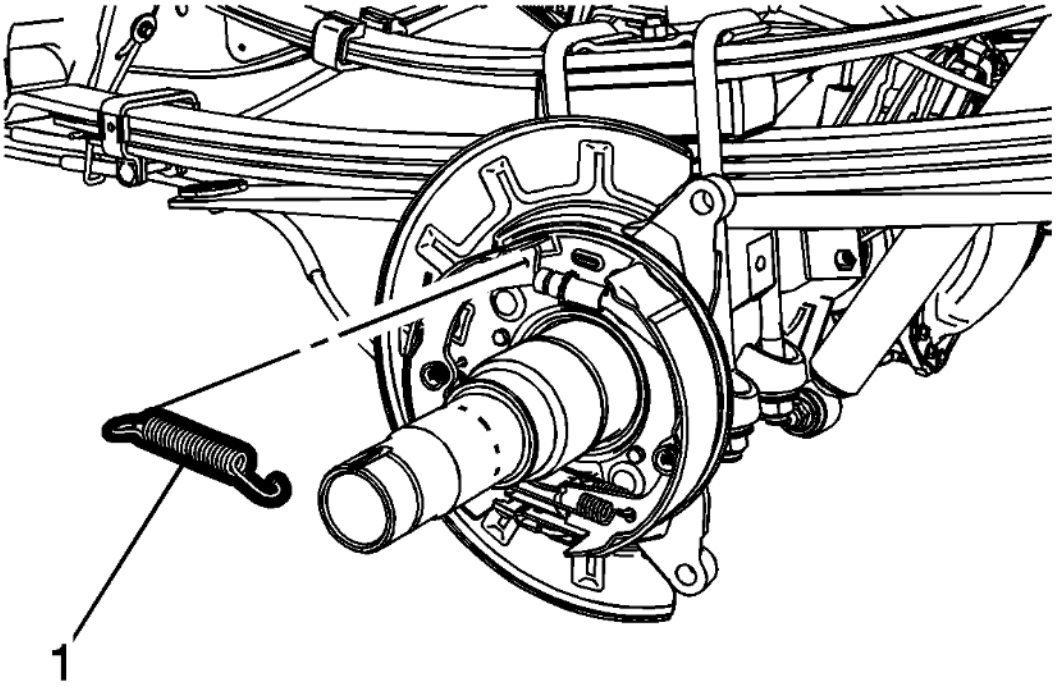


Fig. 28: Parking Brake Shoe Adjuster Spring
Courtesy of GENERAL MOTORS COMPANY

13. Install the parking brake shoe adjuster spring (1).
14. Adjust the parking brake. Refer to **Parking Brake Adjustment**.
15. Install the rear brake rotor. Refer to **Rear Brake Rotor Replacement (J95)** **Rear Brake Rotor Replacement (J96)** .
16. Install the tire and wheel assembly. Refer to **Tire and Wheel Removal and Installation (6-Lug Wheel)** **Tire and Wheel Removal and Installation (8-Lug Wheel)** **Tire and Wheel Removal and Installation (Dual Rear Wheels)** .

PARKING BRAKE LEVER PEDAL ASSEMBLY REPLACEMENT

Removal Procedure

NOTE: **The following service procedure includes the removal of the front parking brake cable. The front parking brake cable is part the parking brake lever pedal assembly.**

1. Remove the fasteners and position aside the instrument panel wiring harness junction block.
2. Remove the left front side door sill garnish molding. Refer to **Front Side Door Sill Garnish Molding**

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Replacement (Crew Cab, Extended Cab) Front Side Door Sill Garnish Molding Replacement (Regular Cab) .

3. Disconnect the parking brake switch electrical connector.
4. Disable the parking brake cable automatic adjuster. Refer to Parking Brake Cable Adjuster Disabling.
5. Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle .

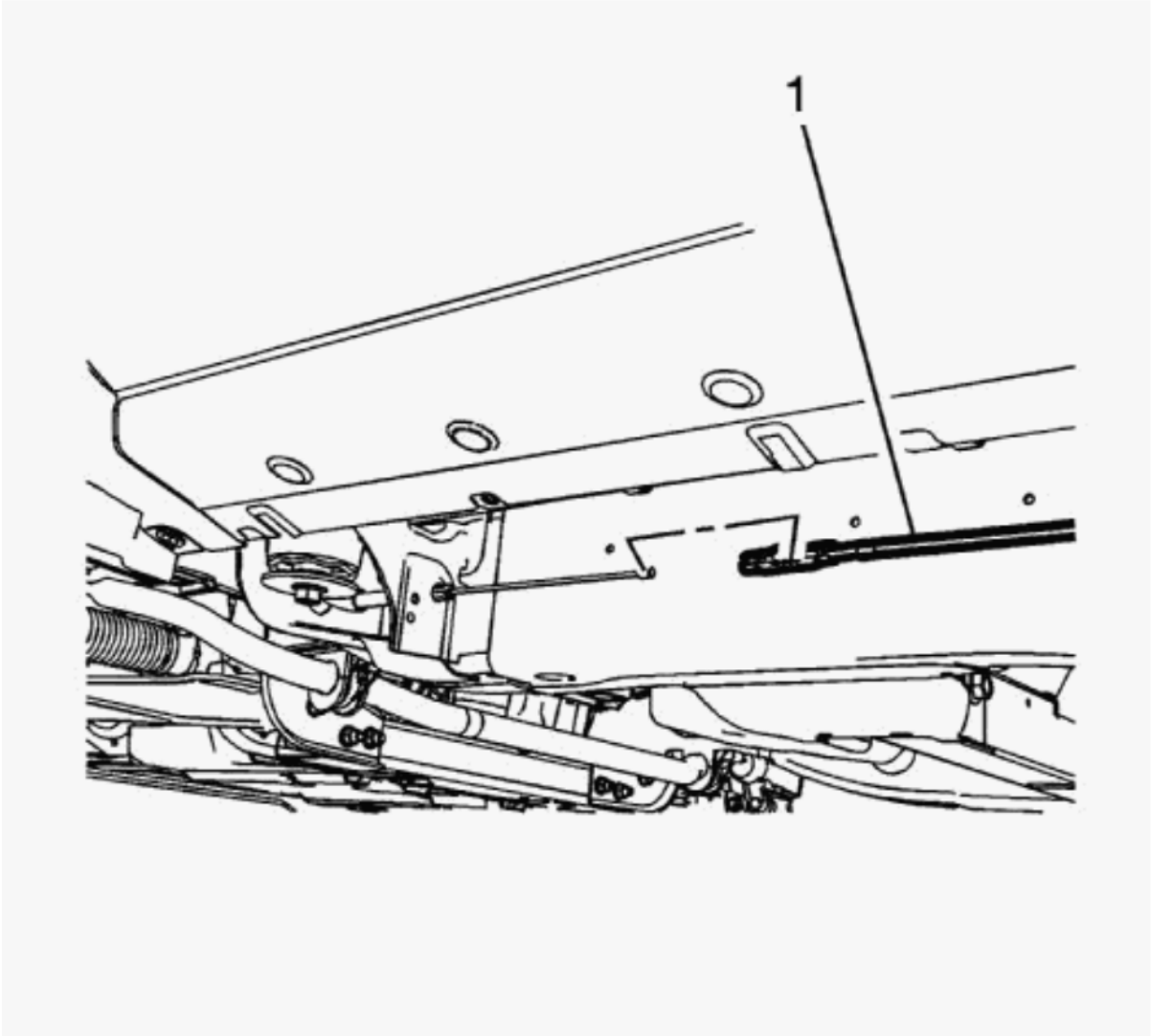


Fig. 29: Front Park Brake Cable And Intermediate Cable
Courtesy of GENERAL MOTORS COMPANY

6. Disconnect the front parking brake cable from the intermediate cable (1) connector by drilling a 3 mm (1/8 in) hole through the dimple in the front to intermediate parking brake cable connector.

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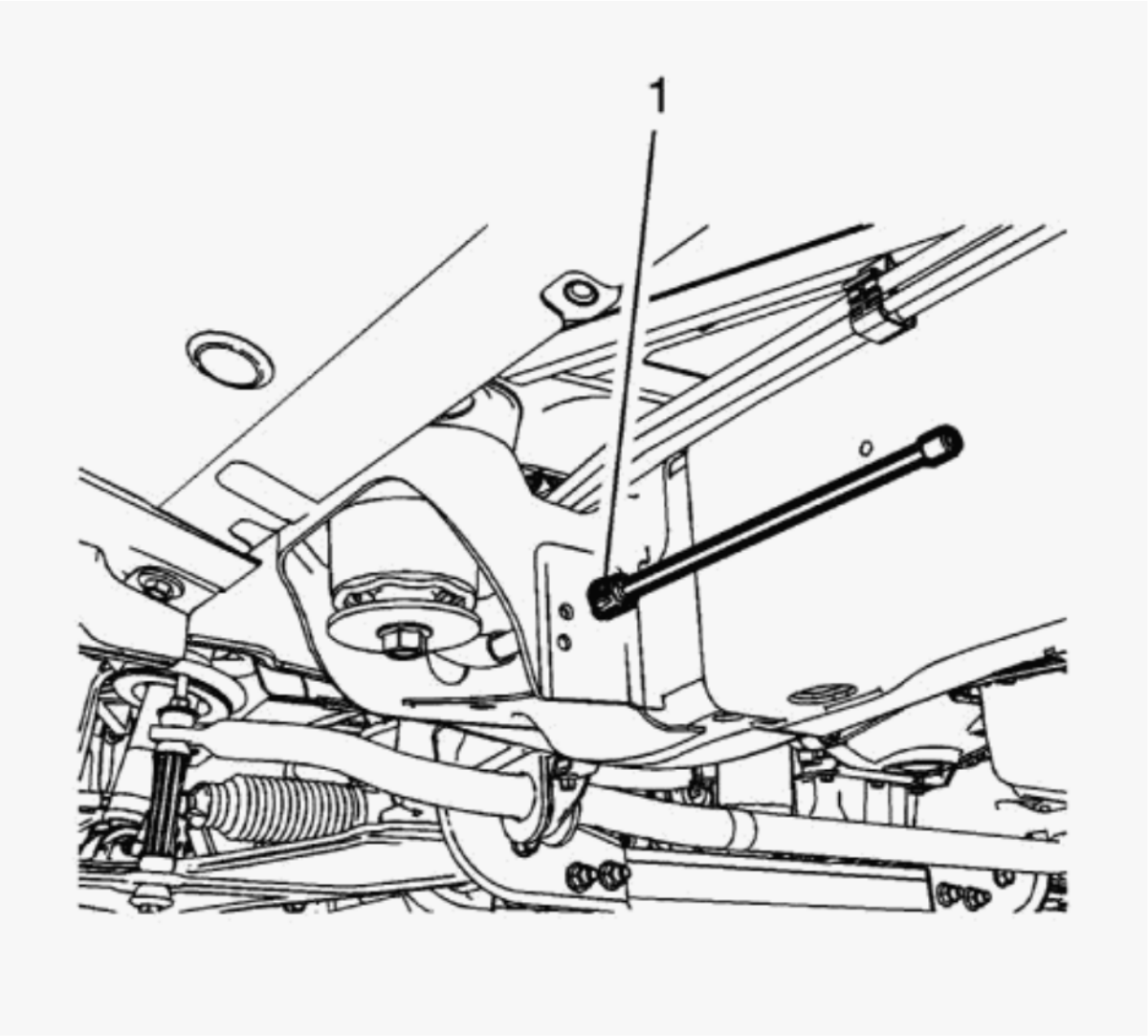


Fig. 30: Front Park Brake Cable
Courtesy of GENERAL MOTORS COMPANY

7. Release the front parking brake cable (1) from the frame by depressing the locking tabs.
8. Lower the vehicle.
9. Position aside the front floor carpet to expose the front parking brake cable pass through grommet.

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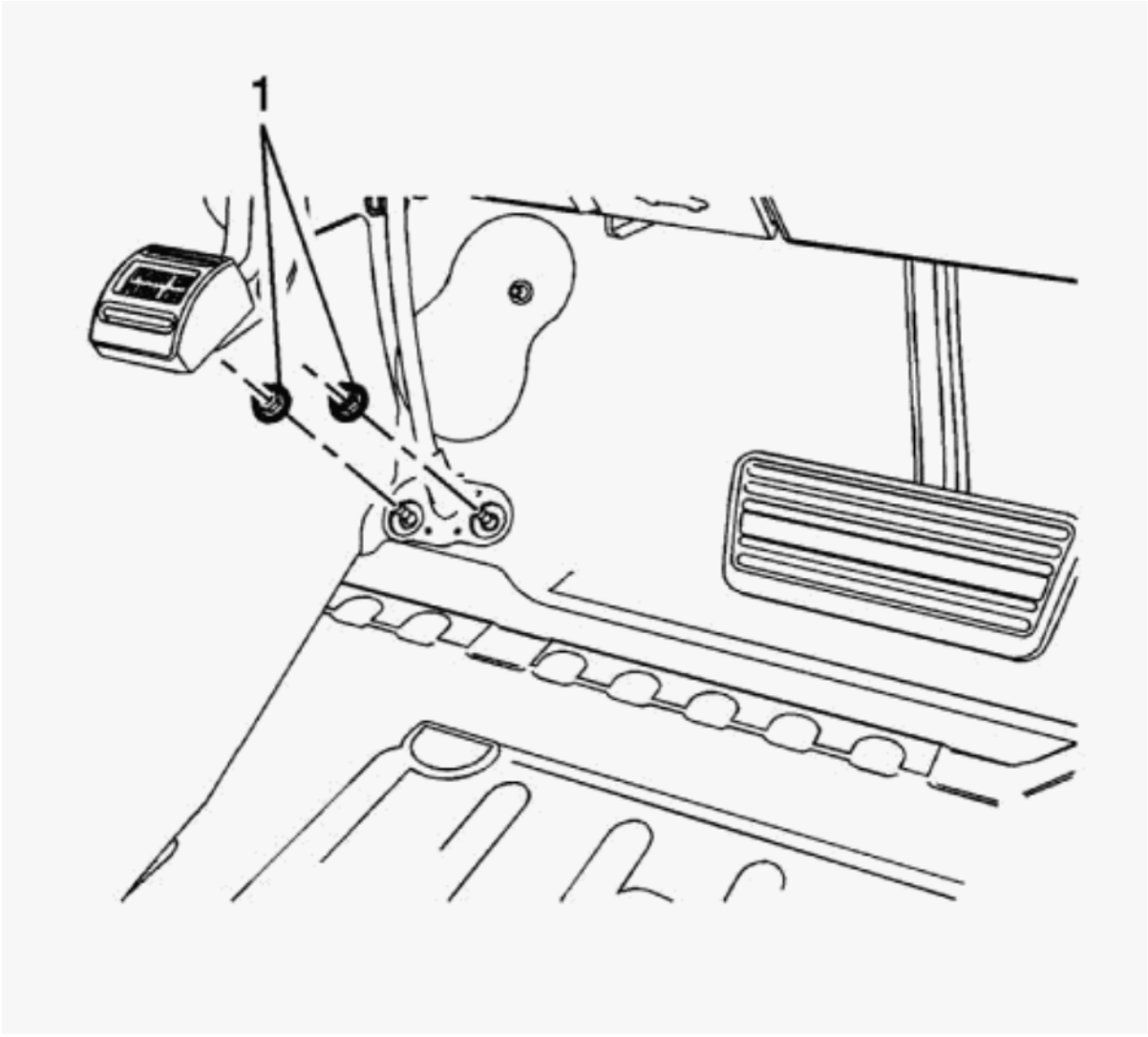


Fig. 31: Front Park Brake Cable Pass Through Grommet Nuts
Courtesy of GENERAL MOTORS COMPANY

10. Remove the parking brake cable pass through grommet nuts (1).
11. Release the front parking brake cable pass through grommet from the floor panel.

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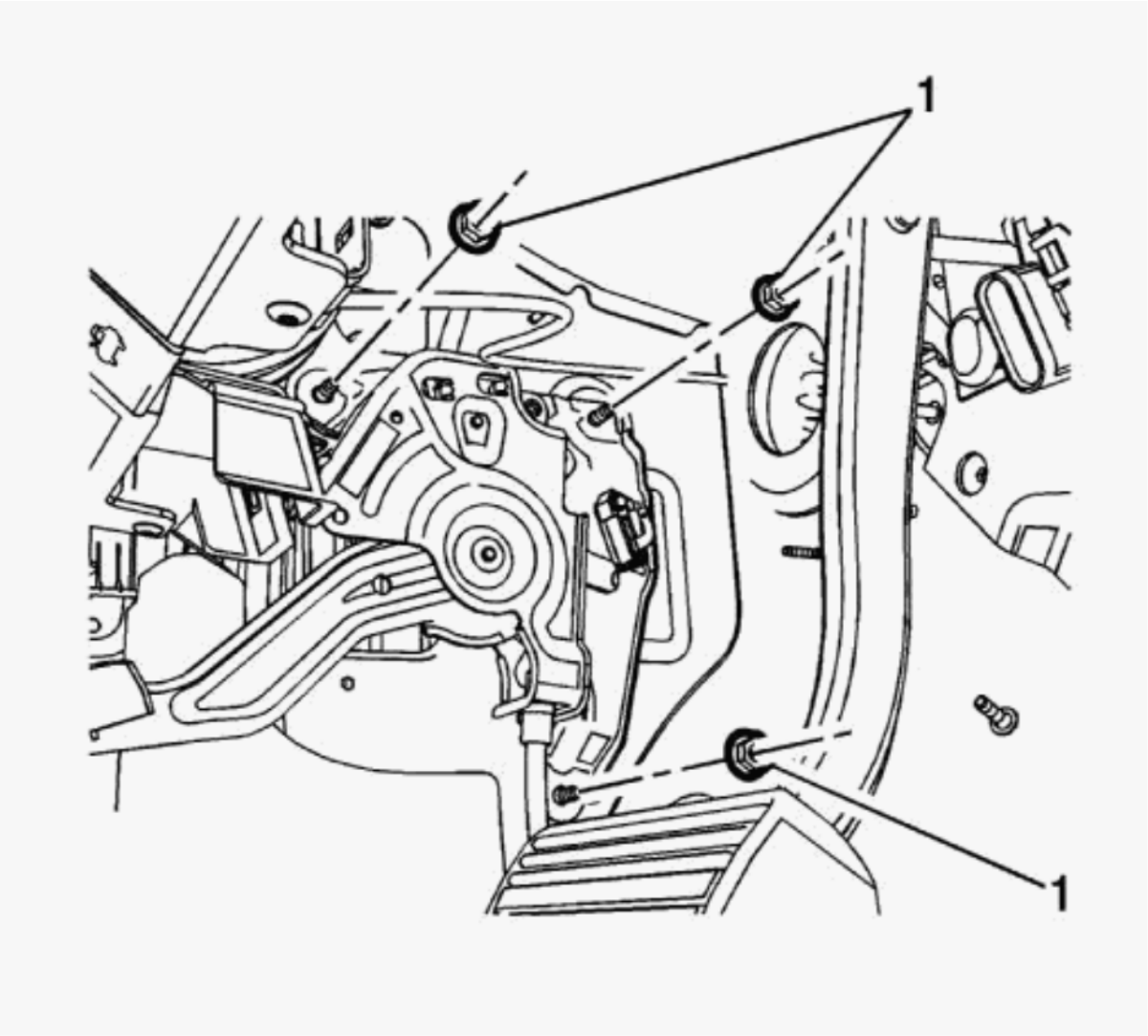


Fig. 32: Park Brake Lever Pedal Assembly Nuts
Courtesy of GENERAL MOTORS COMPANY

12. Remove the parking brake lever pedal assembly nuts (1).
13. Remove the parking brake lever and front cable from the vehicle.

Installation Procedure

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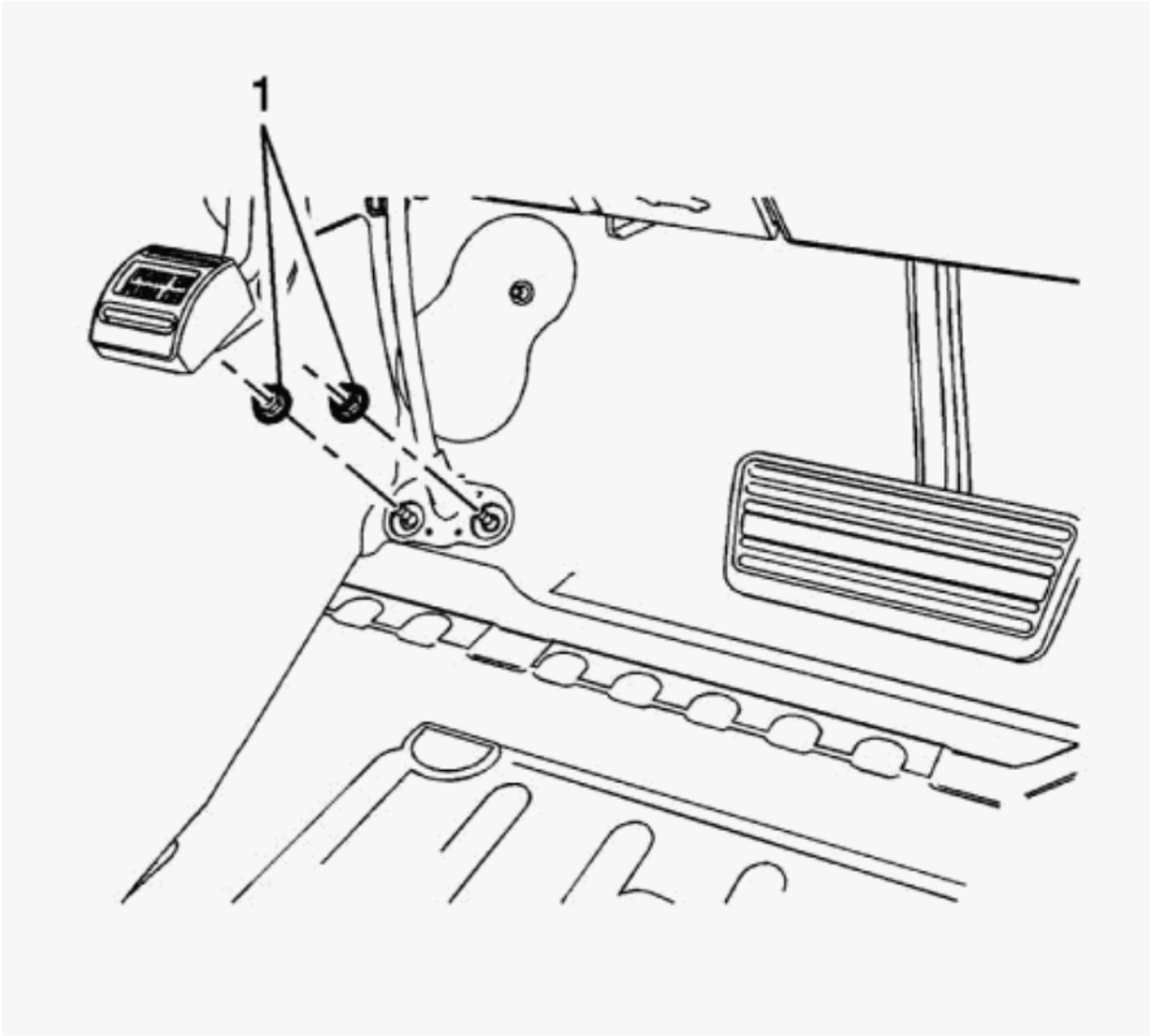


Fig. 33: Front Park Brake Cable Pass Through Grommet Nuts
Courtesy of GENERAL MOTORS COMPANY

NOTE: **Ensure the front parking brake cable pass through grommet is properly seated in the front floor panel.**

1. Insert the front brake cable through the hole in the front floor panel and seat the pass-through grommet.

CAUTION: **Refer to Fastener Caution .**

2. Install the parking brake cable pass through grommet nuts (1) and tighten to 6 (53 lb in).
3. Position the floor carpet to the floor panel.

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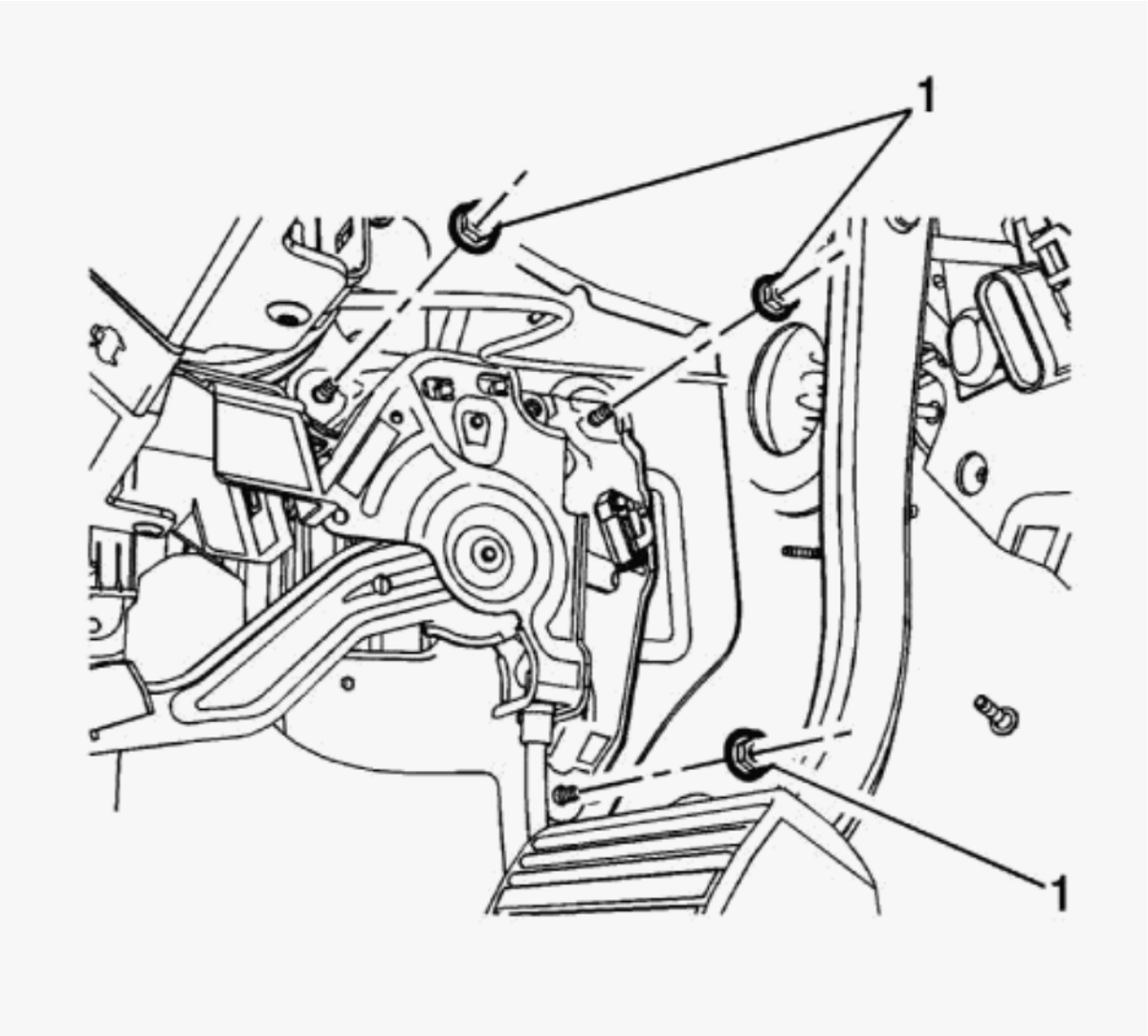


Fig. 34: Park Brake Lever Pedal Assembly Nuts
Courtesy of GENERAL MOTORS COMPANY

4. Position the parking brake lever pedal assembly to the hinge panel.
5. Install the parking brake lever pedal assembly nuts (1) and tighten to 25 N.m (18 lb ft).
6. Raise and support the vehicle. Refer to **Lifting and Jacking the Vehicle** .

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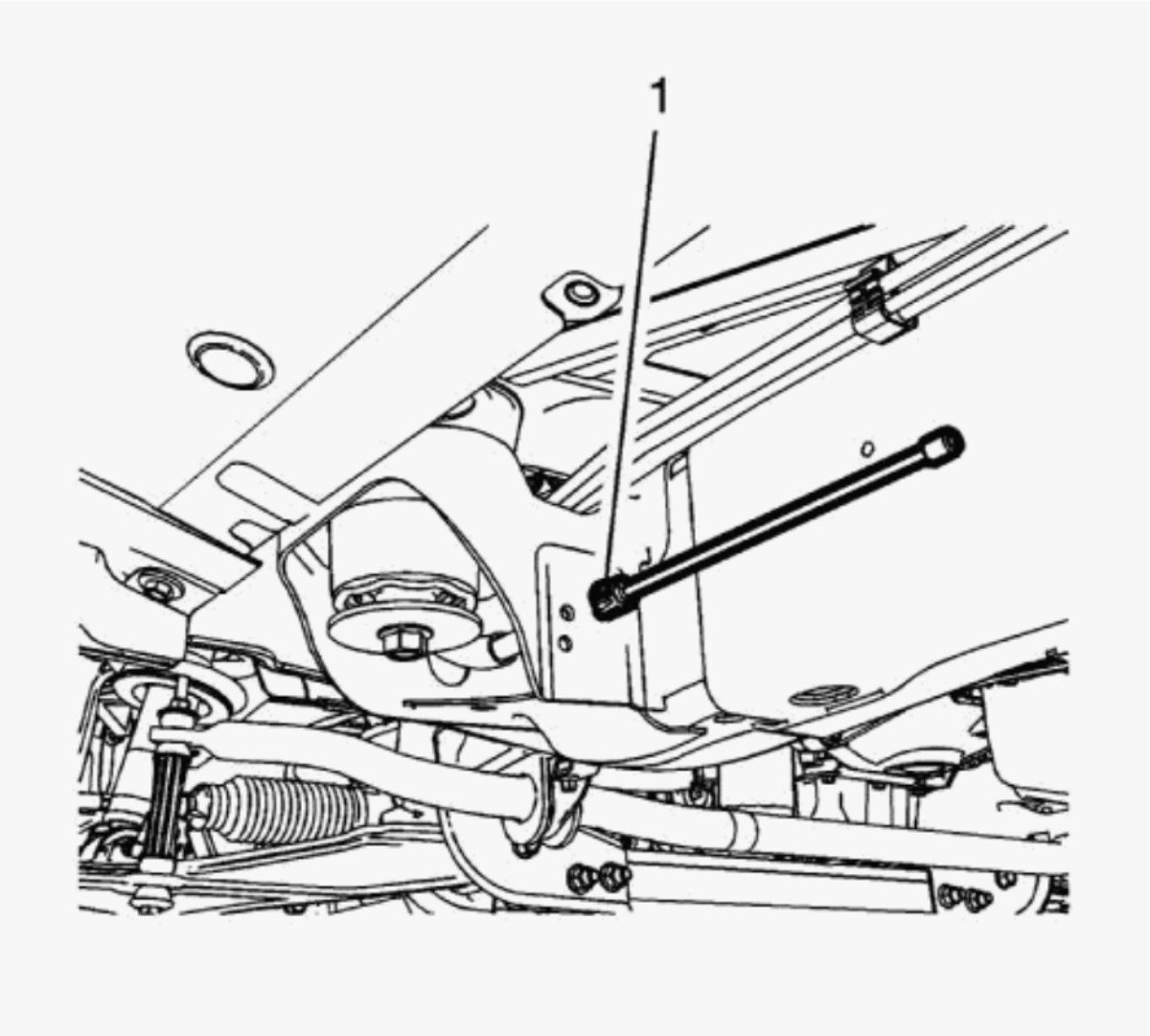


Fig. 35: Front Park Brake Cable
Courtesy of GENERAL MOTORS COMPANY

7. Secure the front parking brake cable (1) to the frame and engage the locking tabs.

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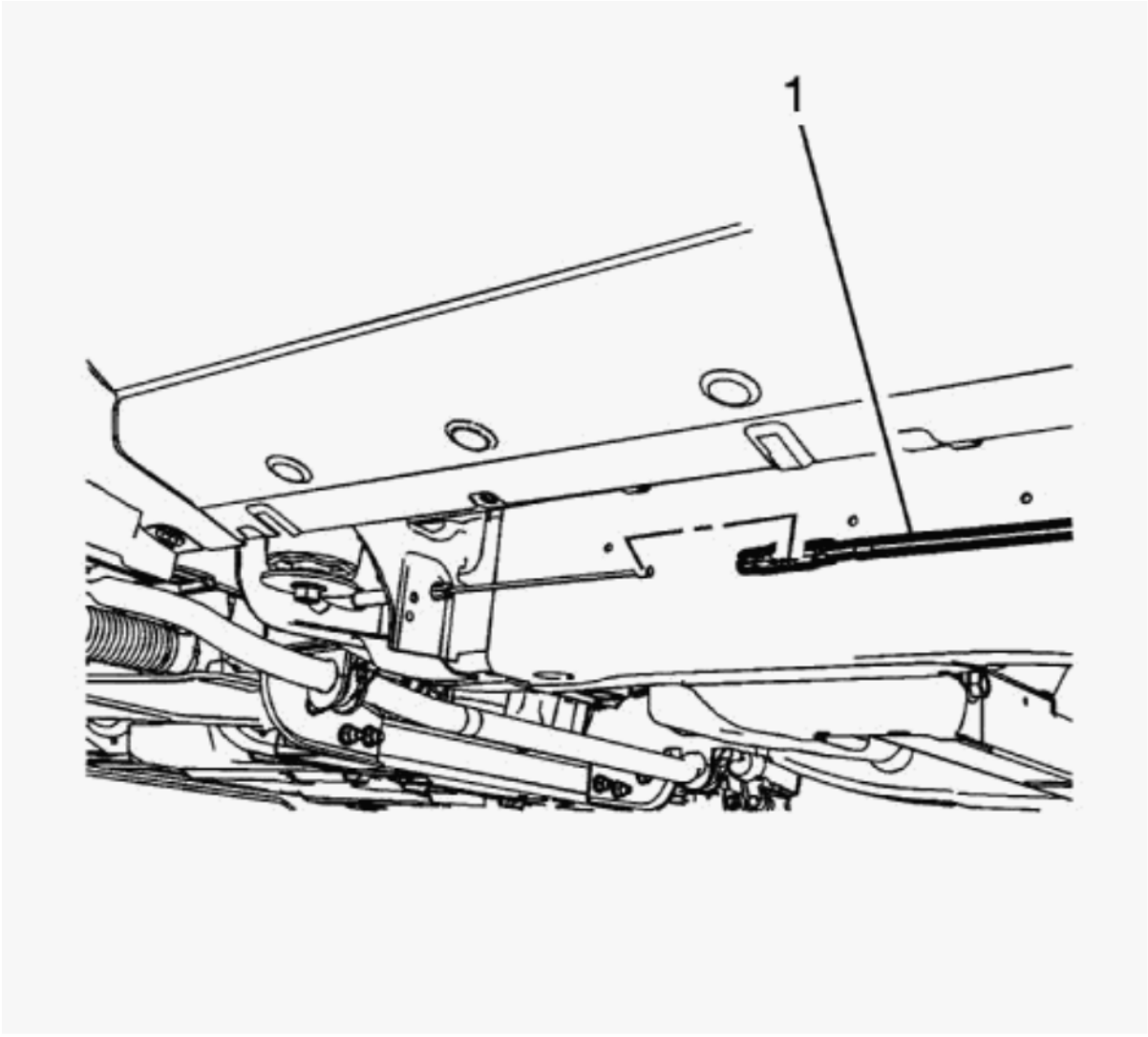


Fig. 36: Front Park Brake Cable And Intermediate Cable
Courtesy of GENERAL MOTORS COMPANY

8. Connect the front parking brake cable from the intermediate cable (1) connector.
9. Lower the vehicle.
10. Enable the parking brake cable automatic adjuster. Refer to **Parking Brake Cable Adjuster Enabling**.
11. Connect the parking brake switch electrical connector.
12. Install the left front side door sill garnish molding. Refer to **Front Side Door Sill Garnish Molding Replacement (Crew Cab, Extended Cab)** **Front Side Door Sill Garnish Molding Replacement (Regular Cab)** .
13. Position the instrument panel wiring harness junction block to the floor studs and install the fasteners.
14. Adjust the parking brake. Refer to **Parking Brake Adjustment**.

PARKING BRAKE SWITCH REPLACEMENT

Removal Procedure

1. Remove the fasteners and position aside the instrument panel wiring harness junction block.
2. Disconnect the parking brake switch electrical connector.

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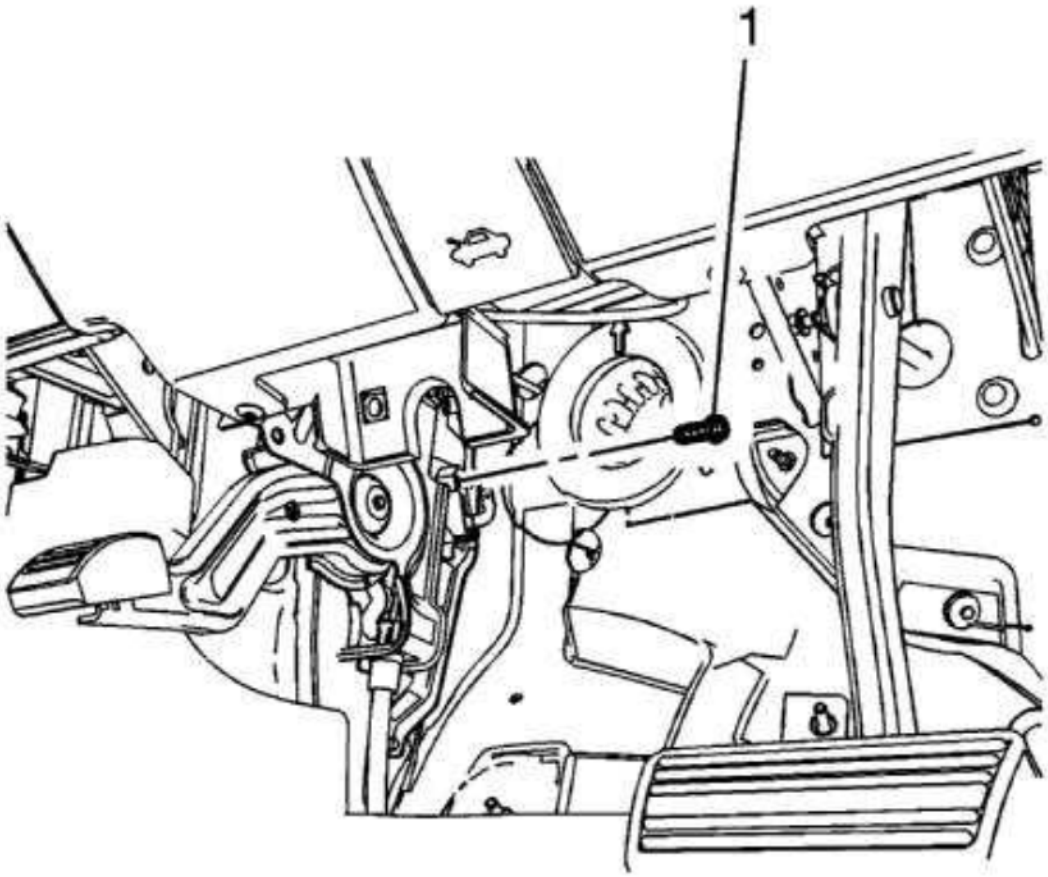


Fig. 37: Parking Brake Switch Bolt
Courtesy of GENERAL MOTORS COMPANY

3. Remove the parking brake switch bolt (1).

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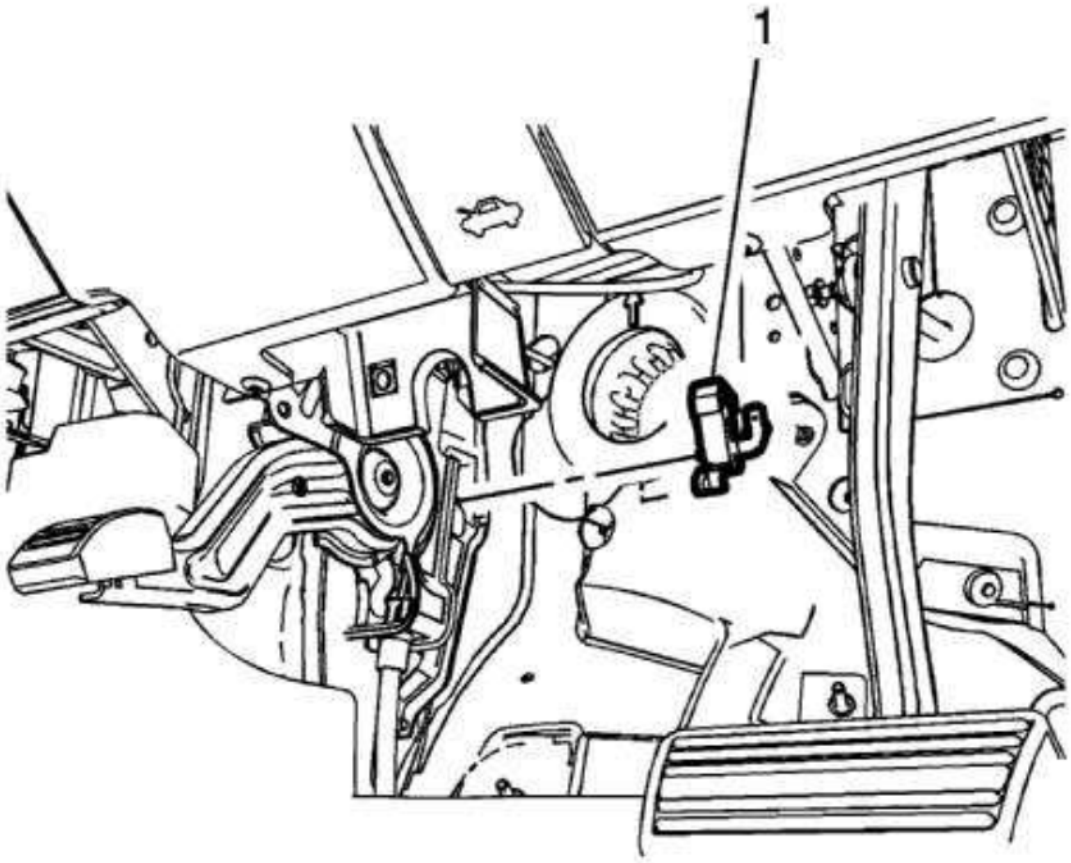


Fig. 38: Parking Brake Switch
Courtesy of GENERAL MOTORS COMPANY

4. Remove the parking brake switch (1).

Installation Procedure

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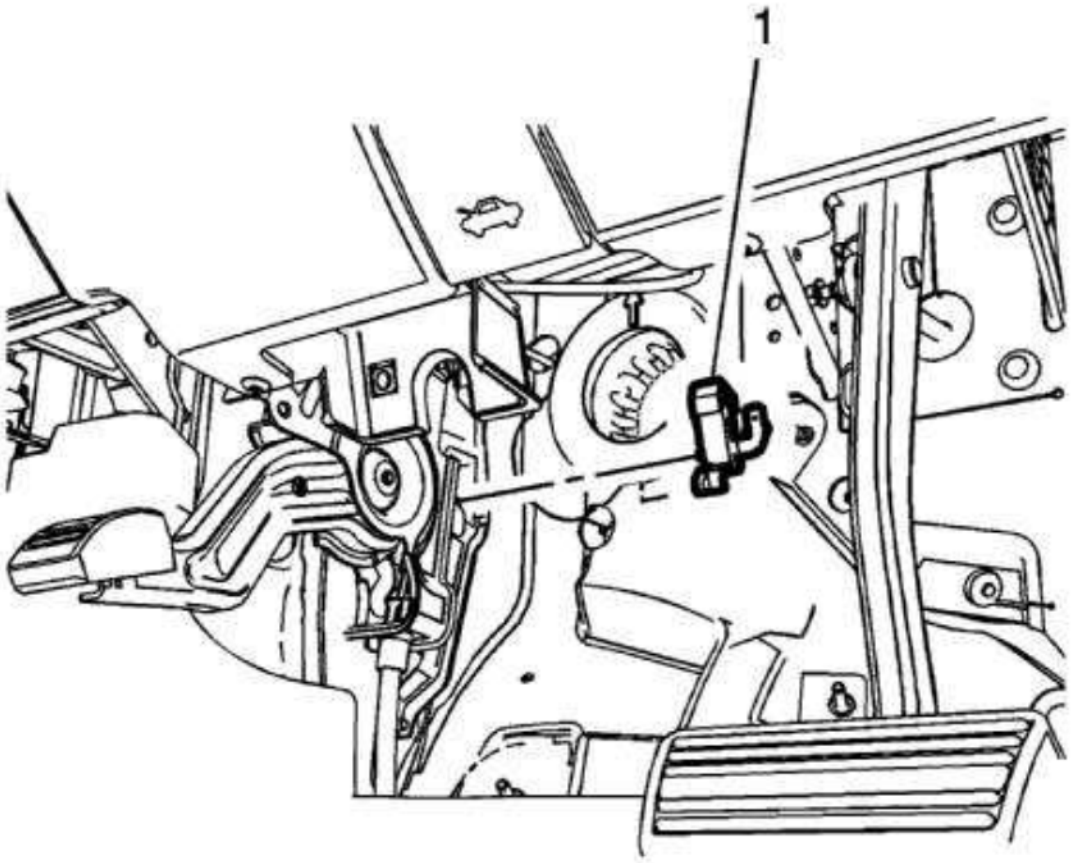


Fig. 39: Parking Brake Switch
Courtesy of GENERAL MOTORS COMPANY

1. Install the parking brake switch (1).

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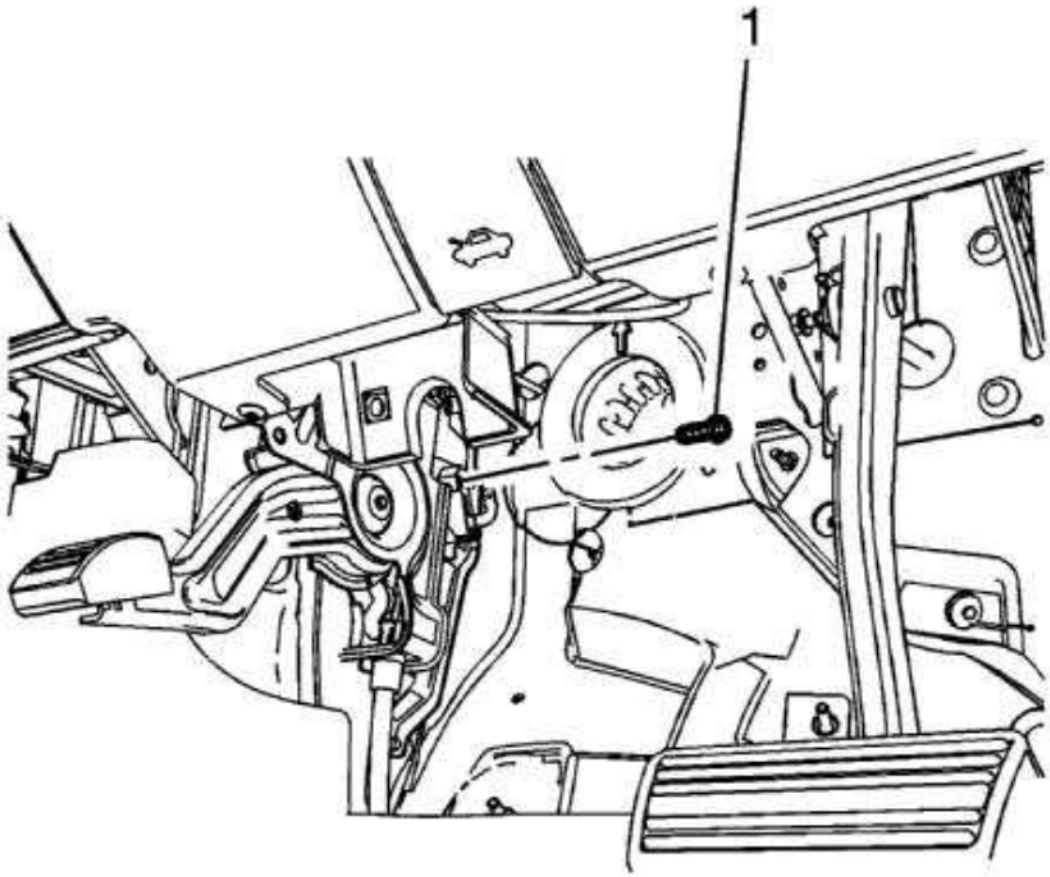


Fig. 40: Parking Brake Switch Bolt
Courtesy of GENERAL MOTORS COMPANY

CAUTION: **Refer to Fastener Caution .**

2. Install the parking brake switch bolt (1) and tighten to 3 N.m (27 lb in).
3. Connect the parking brake switch electrical connector.
4. Position the instrument panel wiring harness junction block to the floor studs and install the fasteners.

PARKING BRAKE INTERMEDIATE CABLE REPLACEMENT (J95, J96)

Removal Procedure

1. Release the parking brake.
2. Raise and support the vehicle. Refer to **Lifting and Jacking the Vehicle** .

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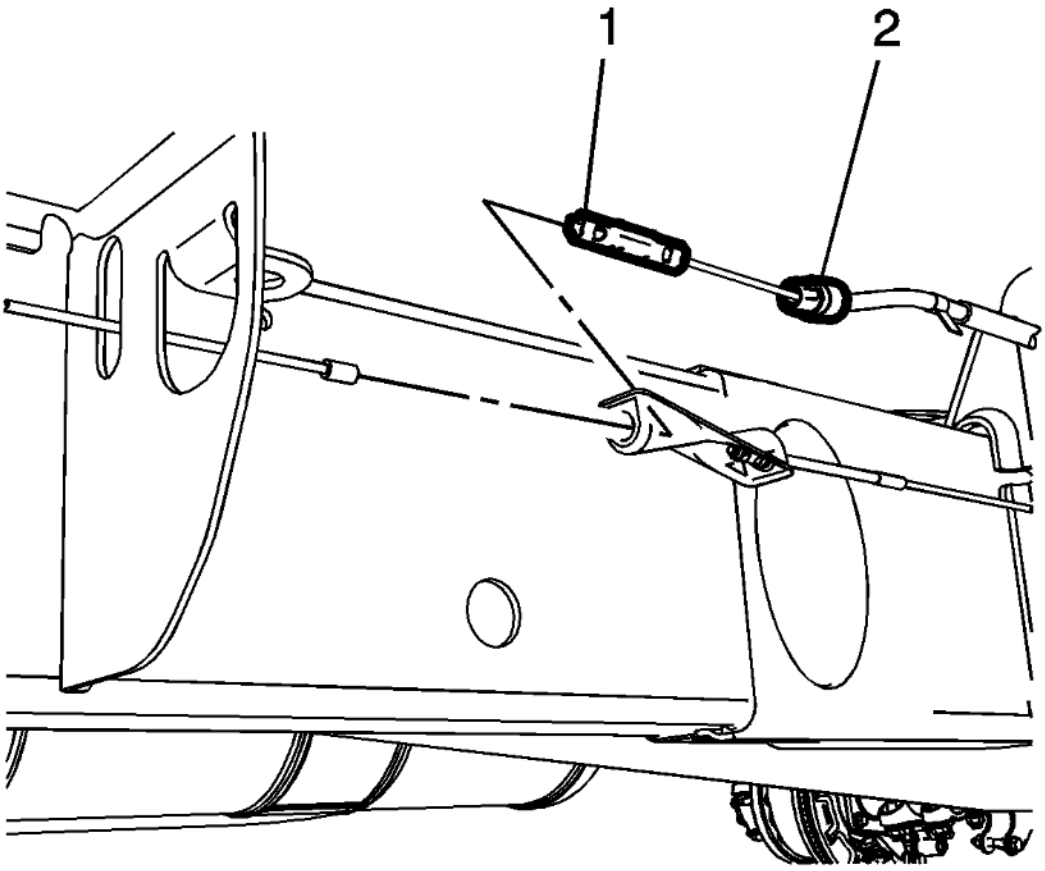


Fig. 41: Right Parking Brake Cable Connector
Courtesy of GENERAL MOTORS COMPANY

3. Drill a 3 mm (1/8 in) hole through the dimple in the right parking brake cable connector (1) where the front parking brake cable is connected.
4. Pull the parking brake equalizer forward and disconnect the right rear parking brake cable connector from the front parking brake cable.

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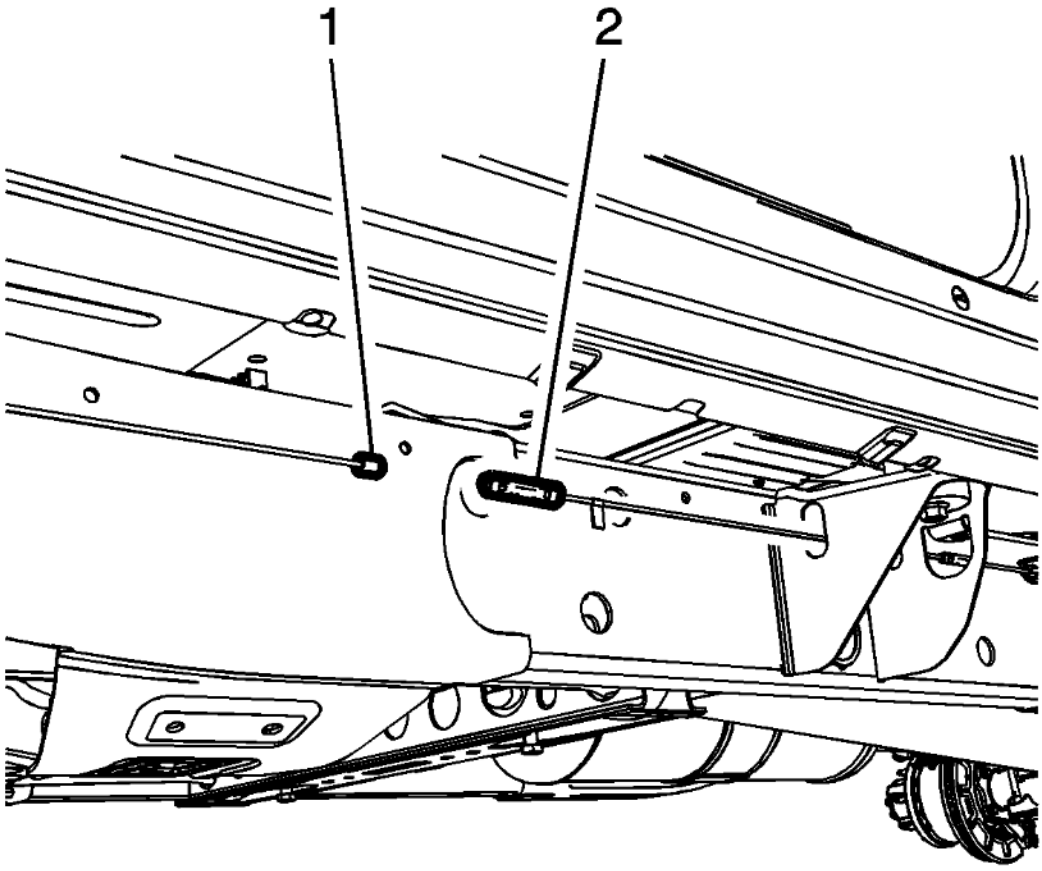


Fig. 42: Parking Brake Cable
Courtesy of GENERAL MOTORS COMPANY

5. Drill a 3 mm (1/8 in) hole through the dimple in the intermediate parking brake cable connector where the front parking brake cable (1) is connected.
6. Disconnect the front parking brake cable from the intermediate parking brake cable connector (2).
7. Remove the intermediate parking brake cable.

Installation Procedure

1. Position the intermediate parking brake cable to the vehicle.

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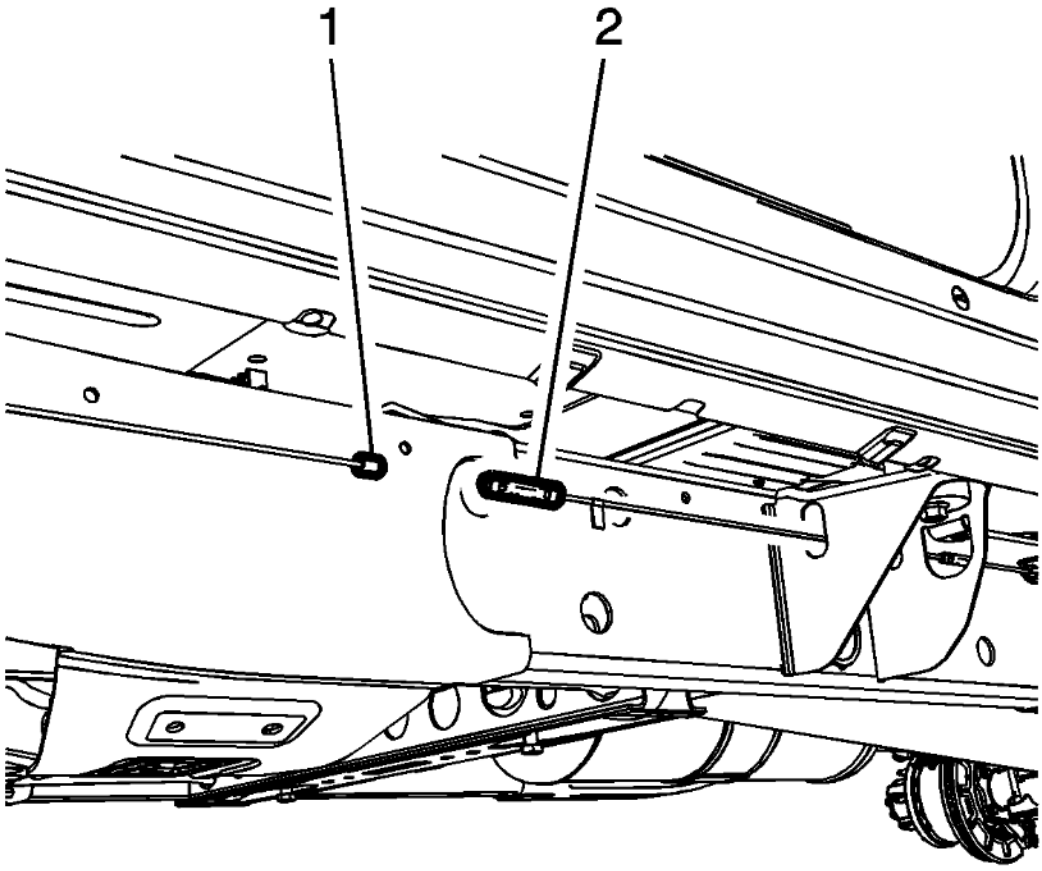


Fig. 43: Parking Brake Cable
Courtesy of GENERAL MOTORS COMPANY

2. Install the front parking brake cable (1) to the intermediate parking brake cable connector (2).

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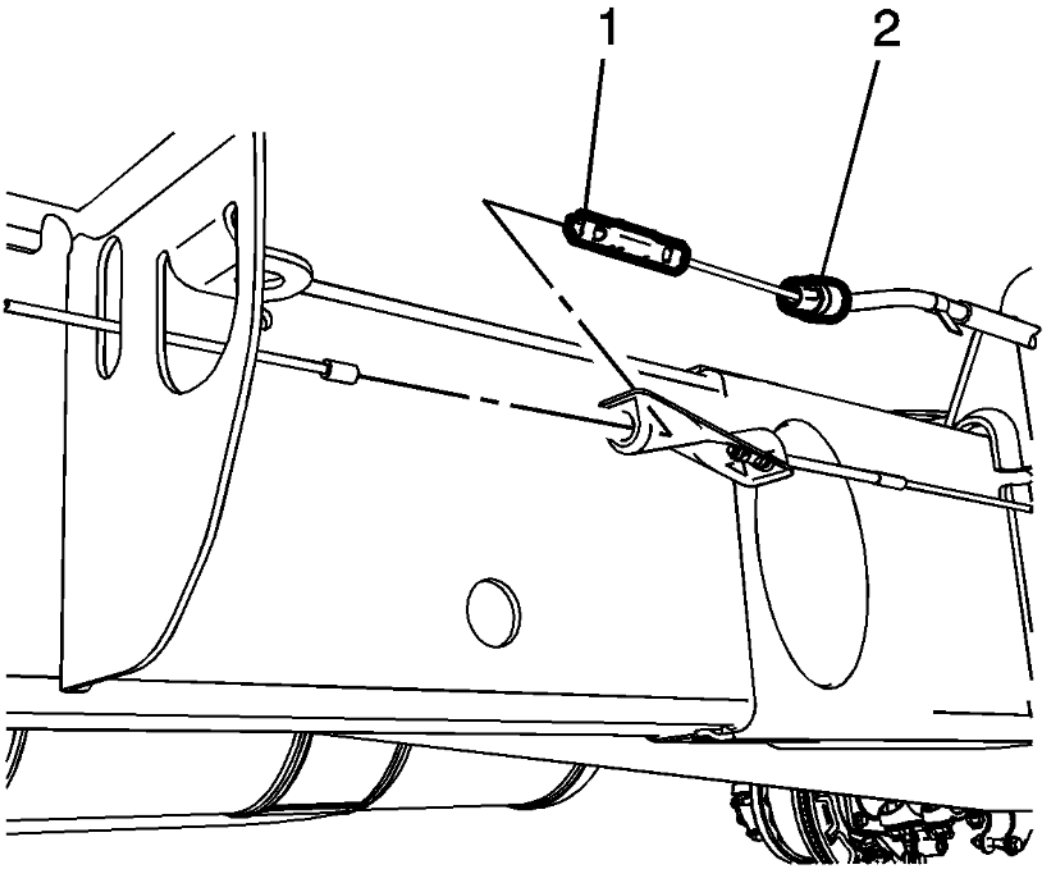


Fig. 44: Right Parking Brake Cable Connector
Courtesy of GENERAL MOTORS COMPANY

3. Pull the parking brake equalizer forward and install the right rear parking brake cable connector (1) to the intermediate parking brake cable.
4. Adjust the parking brake. Refer to **Parking Brake Adjustment**.

PARKING BRAKE INTERMEDIATE CABLE REPLACEMENT (JD9)

Removal Procedure

1. Disable the parking brake cable adjuster. Refer to **Parking Brake Cable Adjuster Disabling**.
2. Raise and support the vehicle. Refer to **Lifting and Jacking the Vehicle** .

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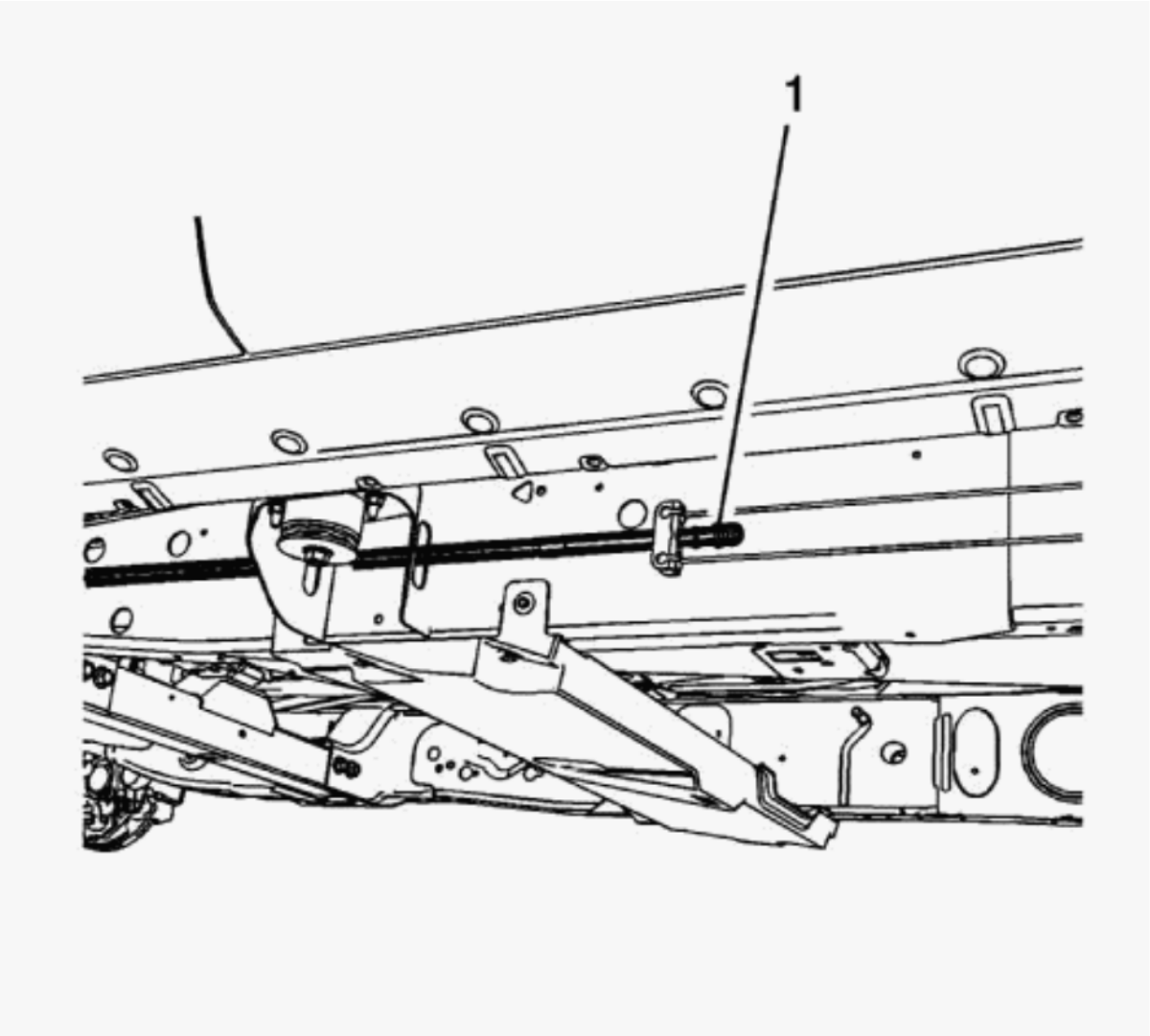


Fig. 45: Intermediate Parking Brake Cable Equalizer Nut
Courtesy of GENERAL MOTORS COMPANY

3. Loosen the intermediate parking brake cable equalizer nut (1).

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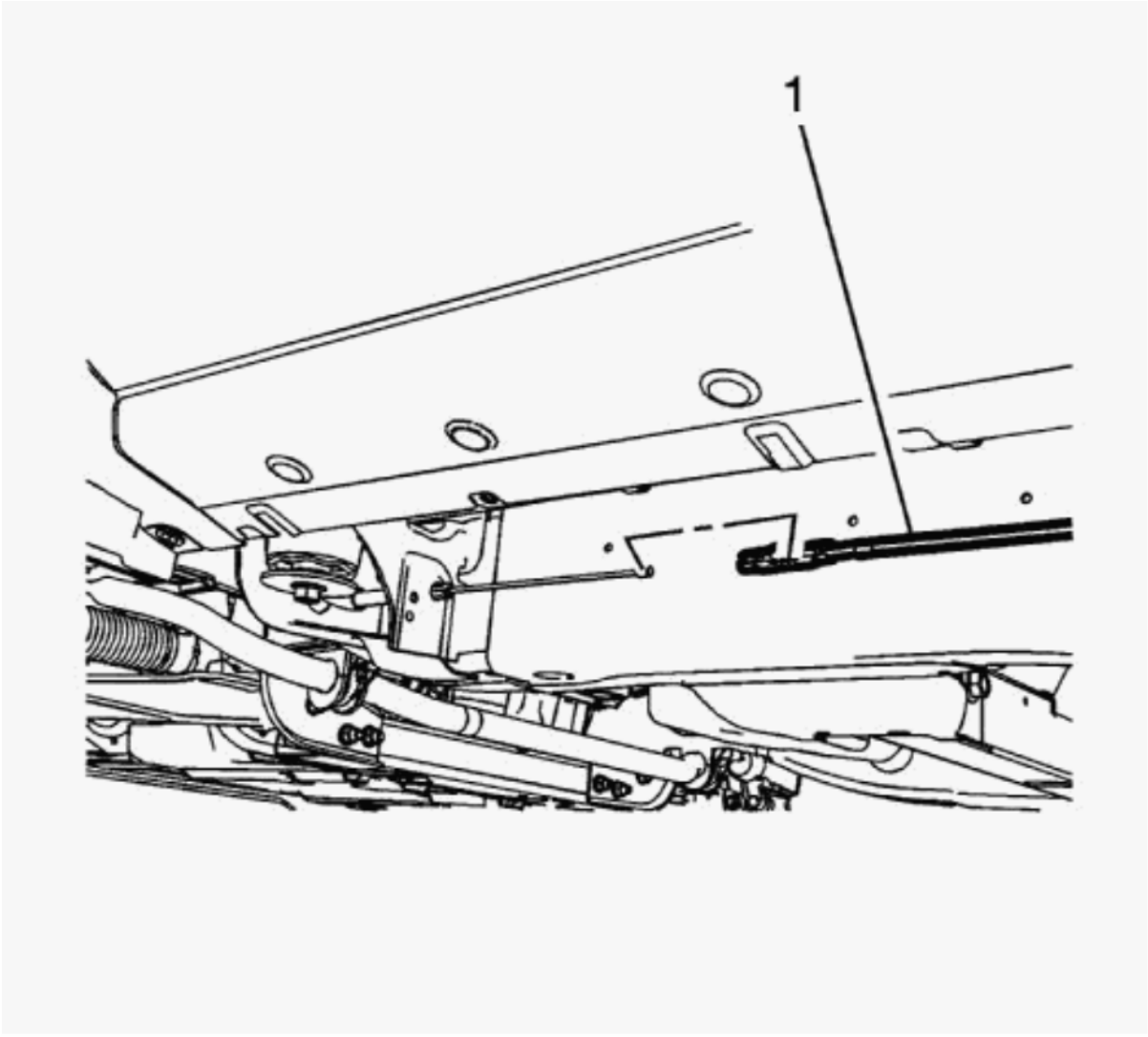


Fig. 46: Front Park Brake Cable And Intermediate Cable
Courtesy of GENERAL MOTORS COMPANY

4. Drill a 3 mm (1/8 in) hole through the dimple in the intermediate parking brake cable connector, near the front park brake cable.
5. Disconnect the intermediate parking cable (1) connector from the front park brake cable.

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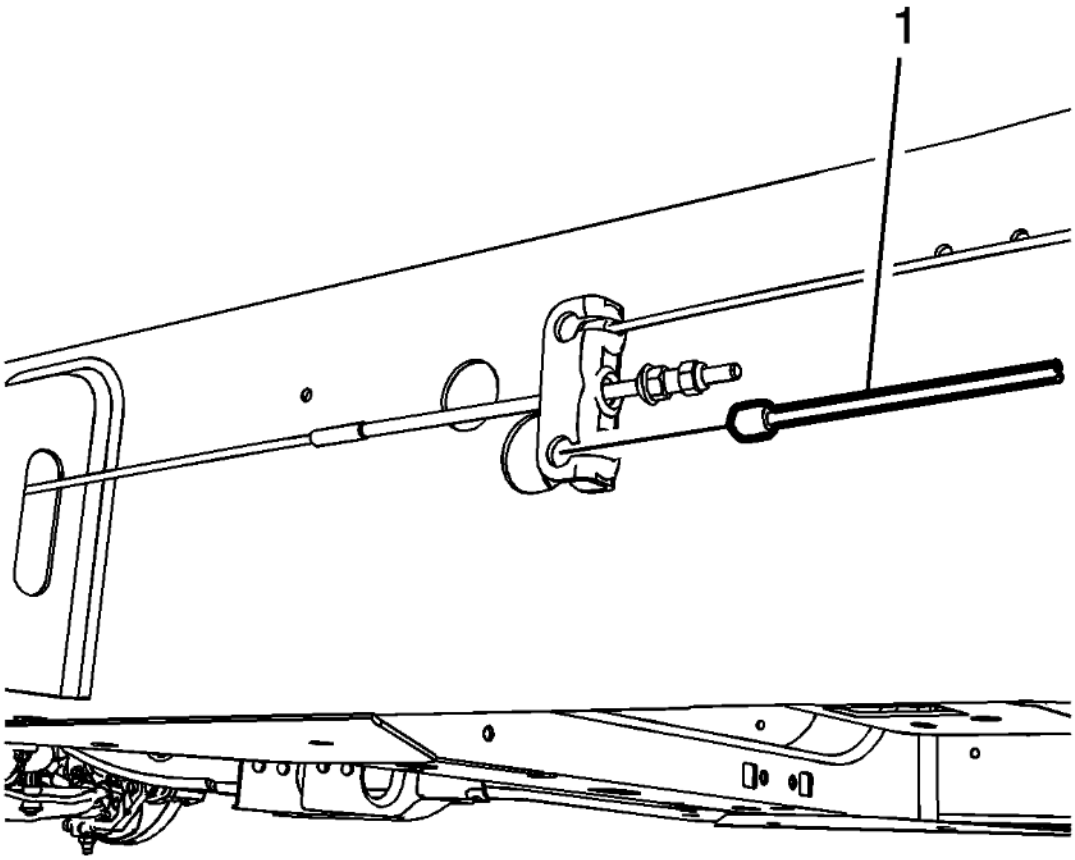


Fig. 47: Left Rear Park Brake Cable
Courtesy of GENERAL MOTORS COMPANY

6. Disconnect the left rear parking brake cable (1) from the equalizer.

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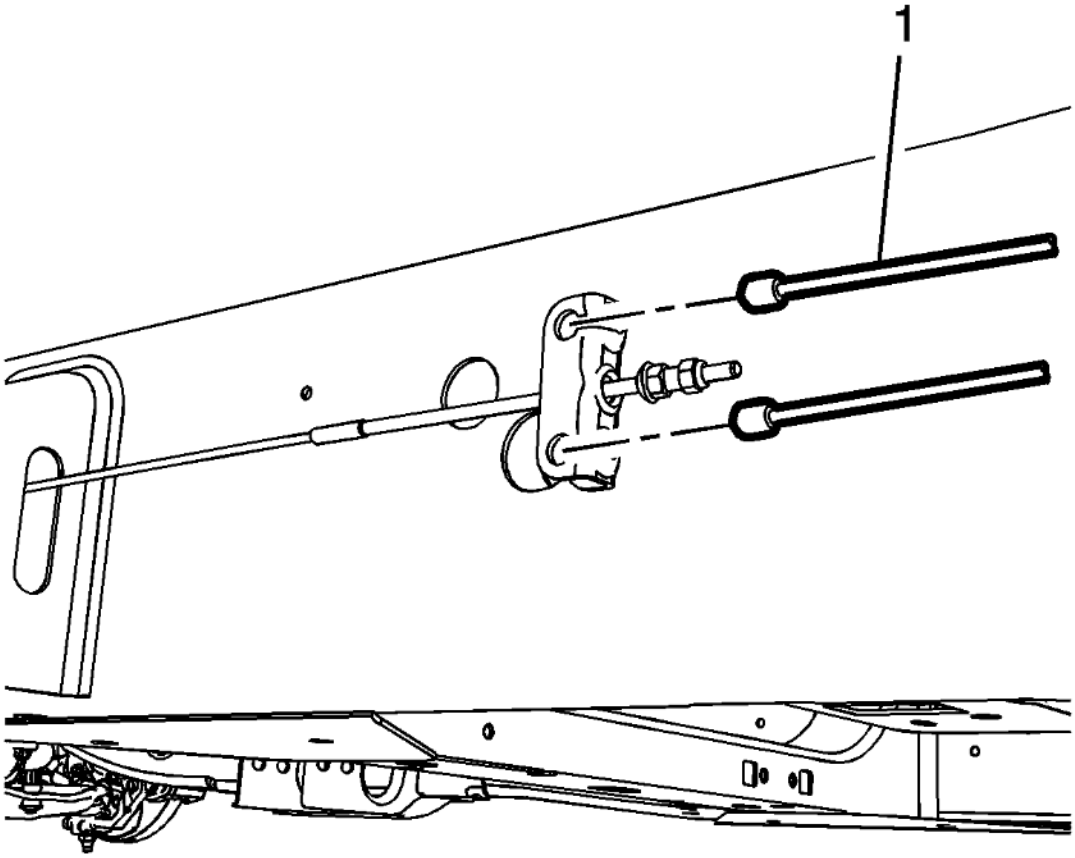


Fig. 48: Right Rear Park Brake Cable
Courtesy of GENERAL MOTORS COMPANY

7. Disconnect the right rear parking brake cable (1) from the equalizer.
8. Remove the intermediate parking brake cable.

Installation Procedure

1. Install the intermediate parking brake cable to the vehicle.

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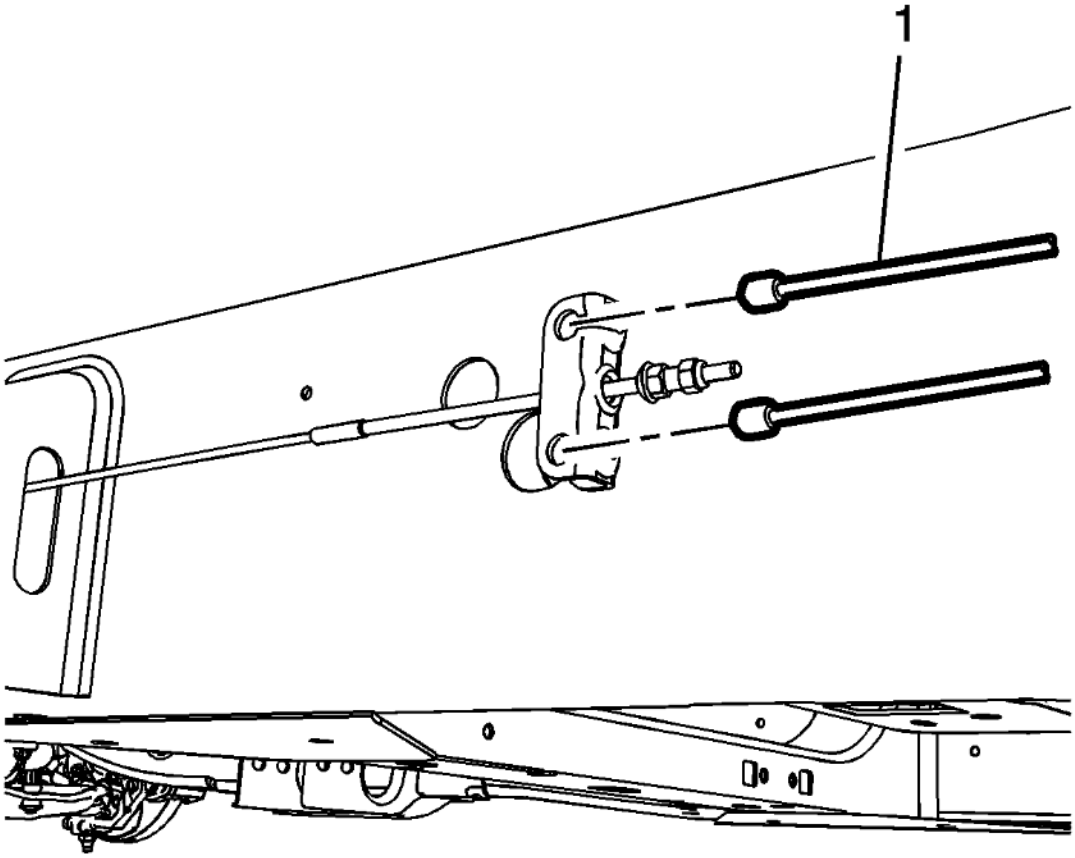


Fig. 49: Right Rear Park Brake Cable
Courtesy of GENERAL MOTORS COMPANY

2. Connect the right rear parking brake cable (1) to the equalizer.

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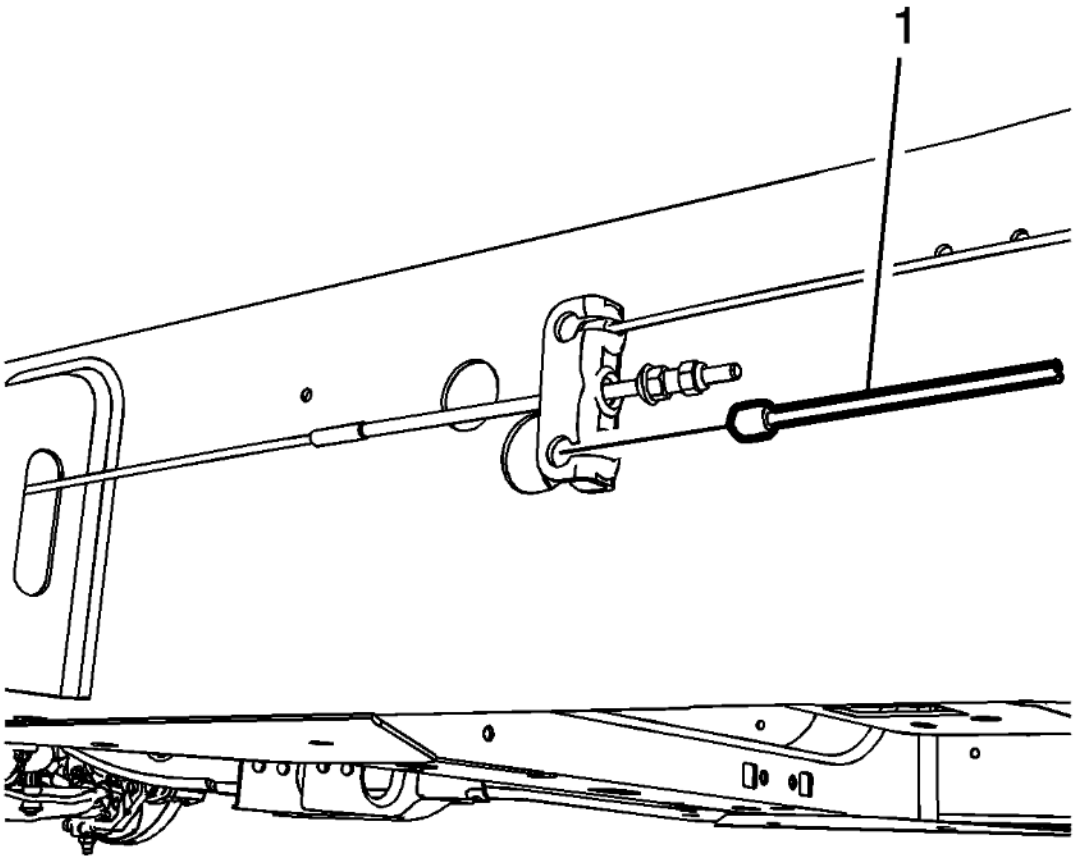


Fig. 50: Left Rear Park Brake Cable
Courtesy of GENERAL MOTORS COMPANY

3. Connect the left rear parking brake cable (1) to the equalizer.

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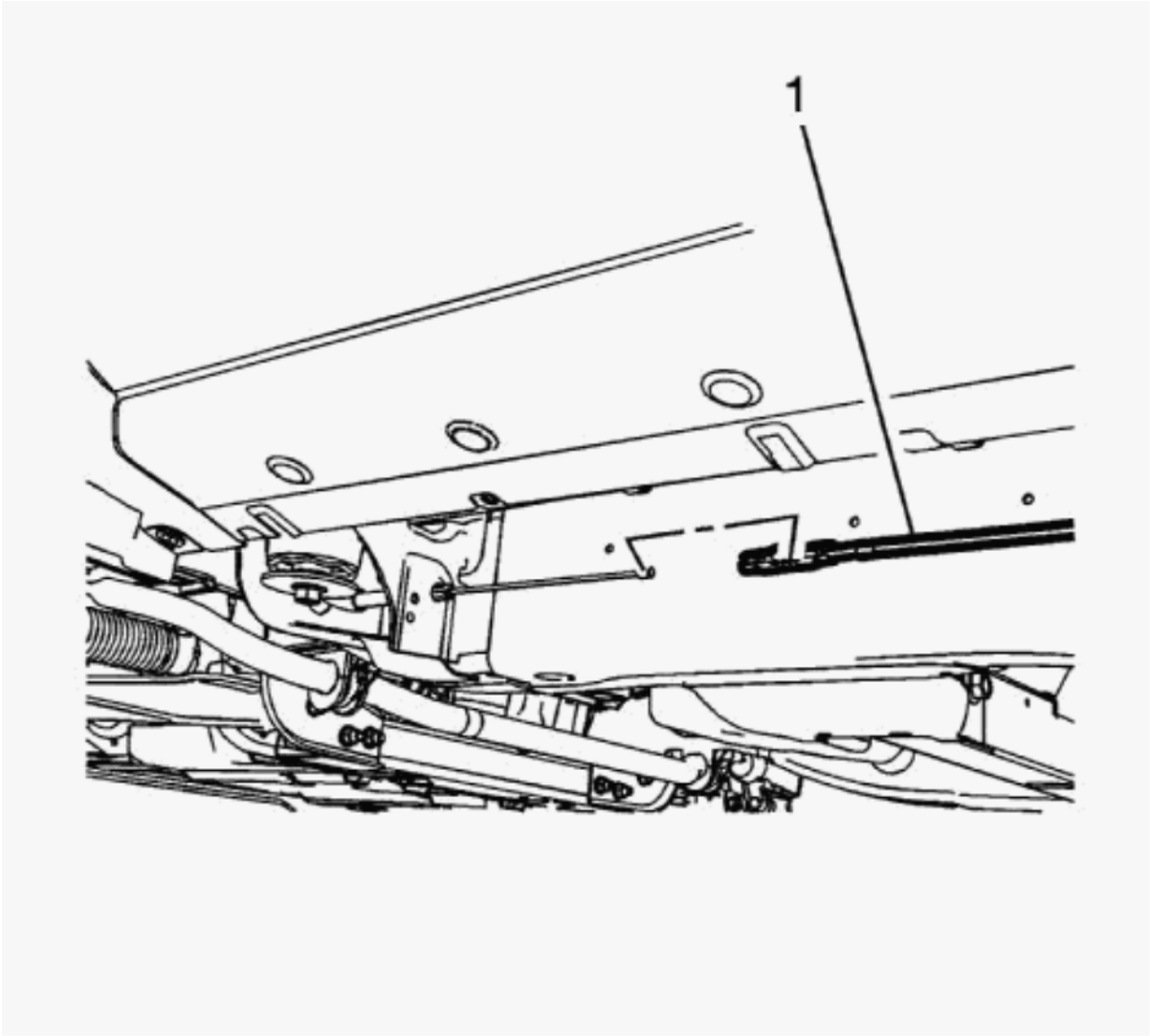


Fig. 51: Front Park Brake Cable And Intermediate Cable
Courtesy of GENERAL MOTORS COMPANY

4. Connect the intermediate parking brake cable (1) connector to the front park brake cable.
5. Adjust the parking brake. Refer to **Parking Brake Adjustment**.
6. Enable the parking brake cable adjuster. Refer to **Parking Brake Cable Adjuster Enabling**.

PARKING BRAKE REAR CABLE REPLACEMENT - LEFT SIDE (J95, J96)

Removal Procedure

1. Release the park brake.
2. Raise and support the vehicle. Refer to **Lifting and Jacking the Vehicle** .

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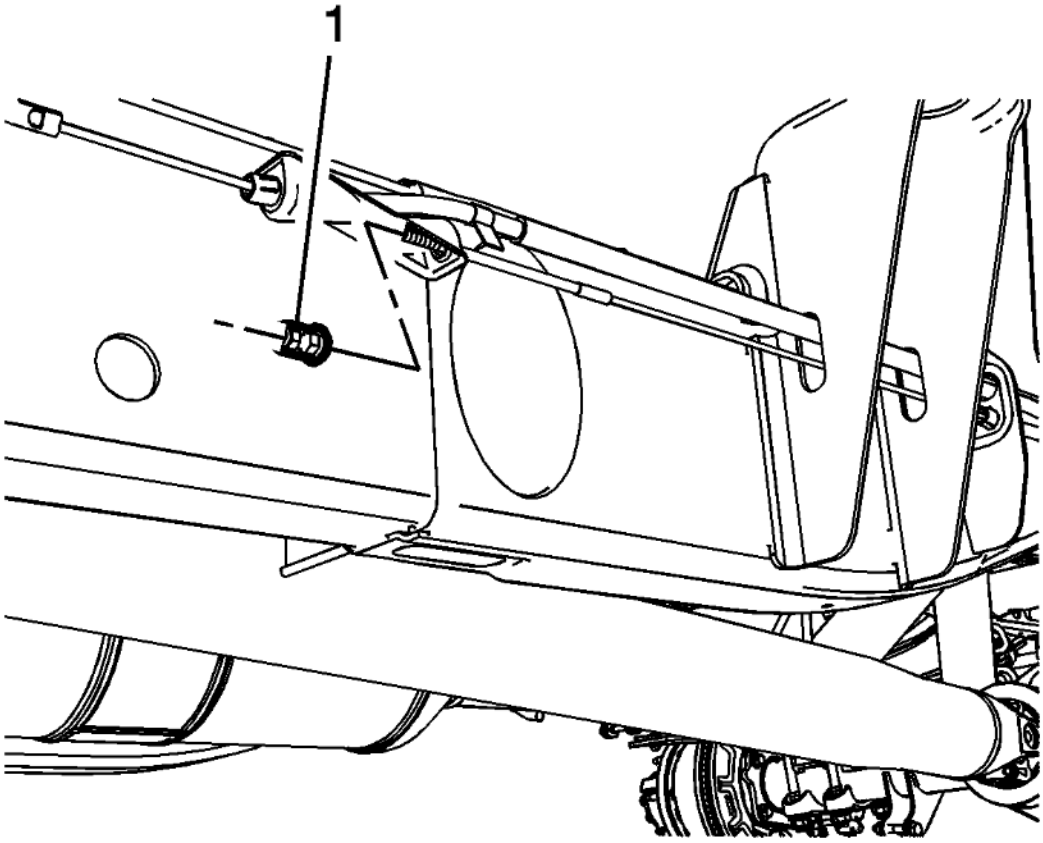


Fig. 52: Parking Brake Equalizer Adjuster Nut
Courtesy of GENERAL MOTORS COMPANY

3. Remove the parking brake equalizer adjuster nut (1).

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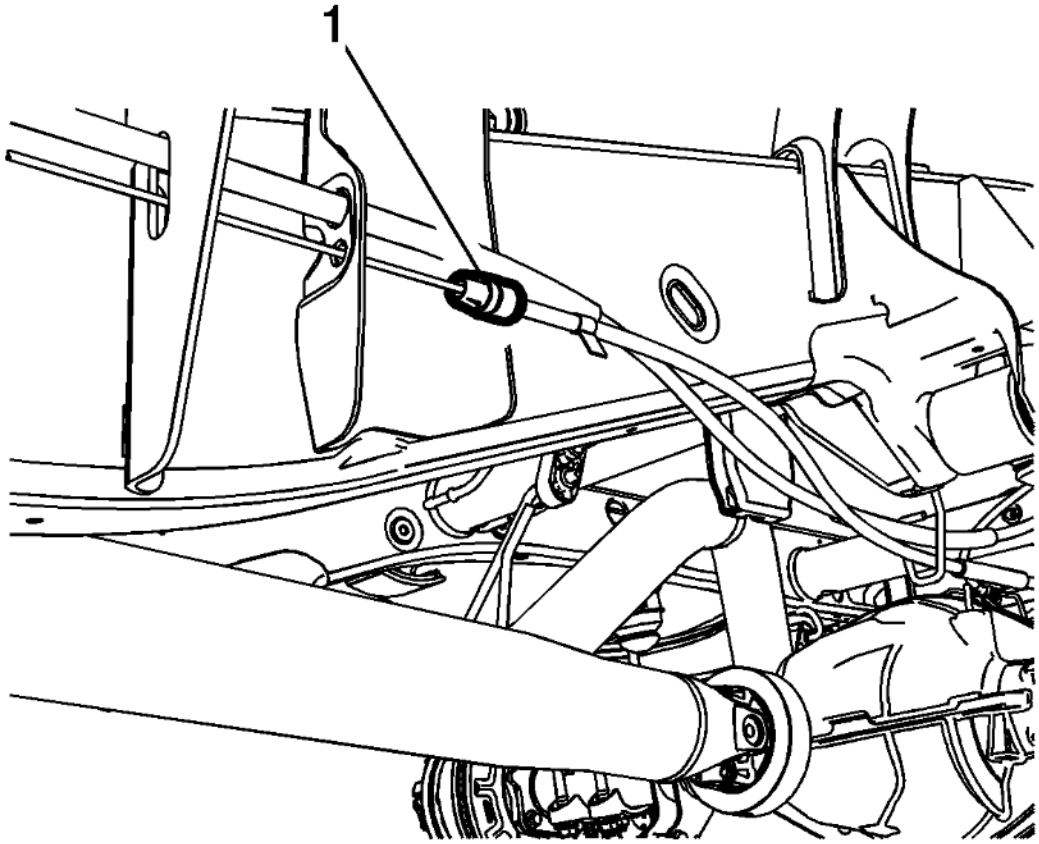


Fig. 53: Left Rear Parking Brake Cable Retainer
Courtesy of GENERAL MOTORS COMPANY

4. Compress the locking tabs and release the left rear parking brake cable retainer (1) from the frame.

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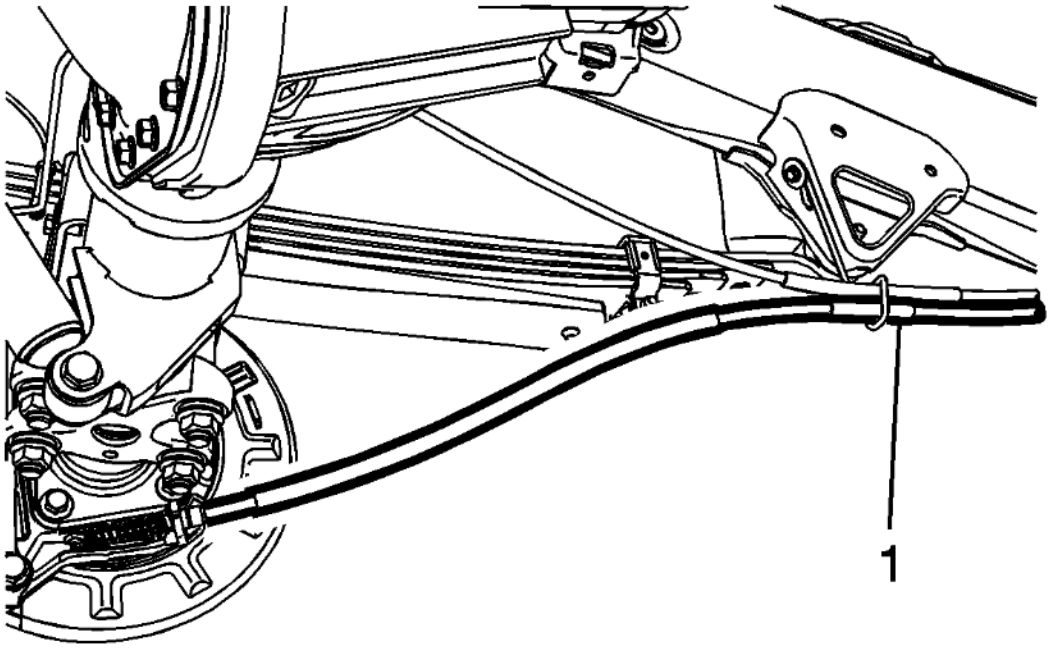


Fig. 54: Parking Brake Cable Guide
Courtesy of GENERAL MOTORS COMPANY

5. Pull the parking brake cable through the parking brake cable guide (1).

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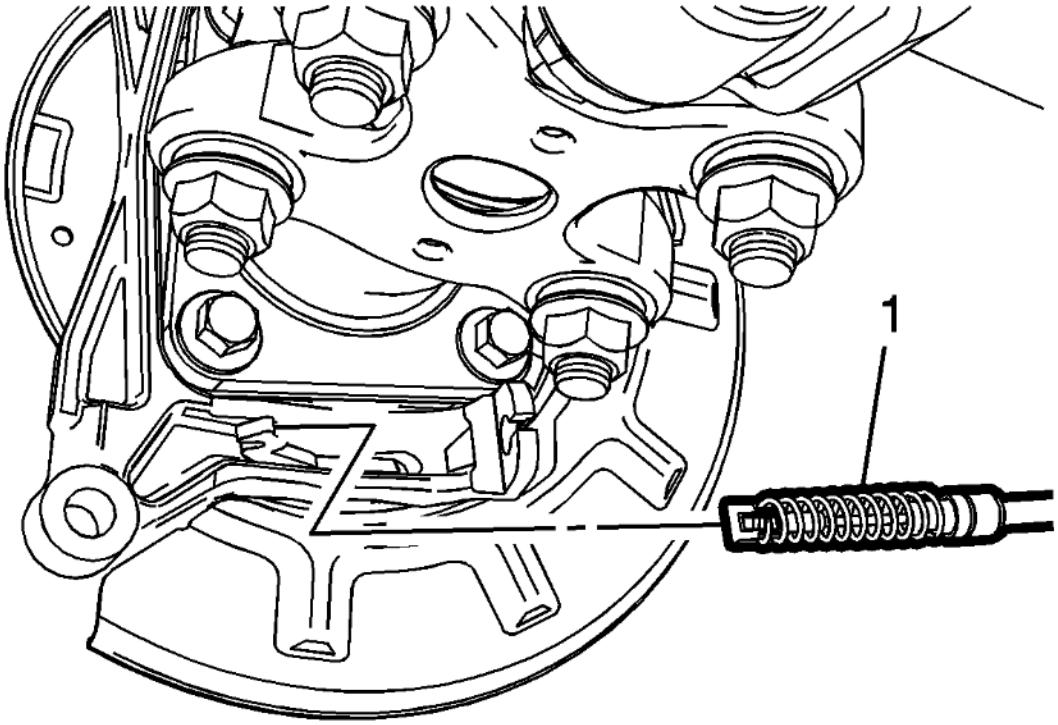


Fig. 55: Parking Brake Cable Eye
Courtesy of GENERAL MOTORS COMPANY

6. Disconnect the parking brake cable eye (1) from the parking brake actuator lever.
7. Release the parking brake cable locking tabs, remove the parking brake cable from the cable bracket by compressing the parking brake cable spring toward the cable eye and passing the cable through the cable bracket slot.
8. Remove the parking brake cable.

Installation Procedure

1. Position the parking brake cable to the vehicle.

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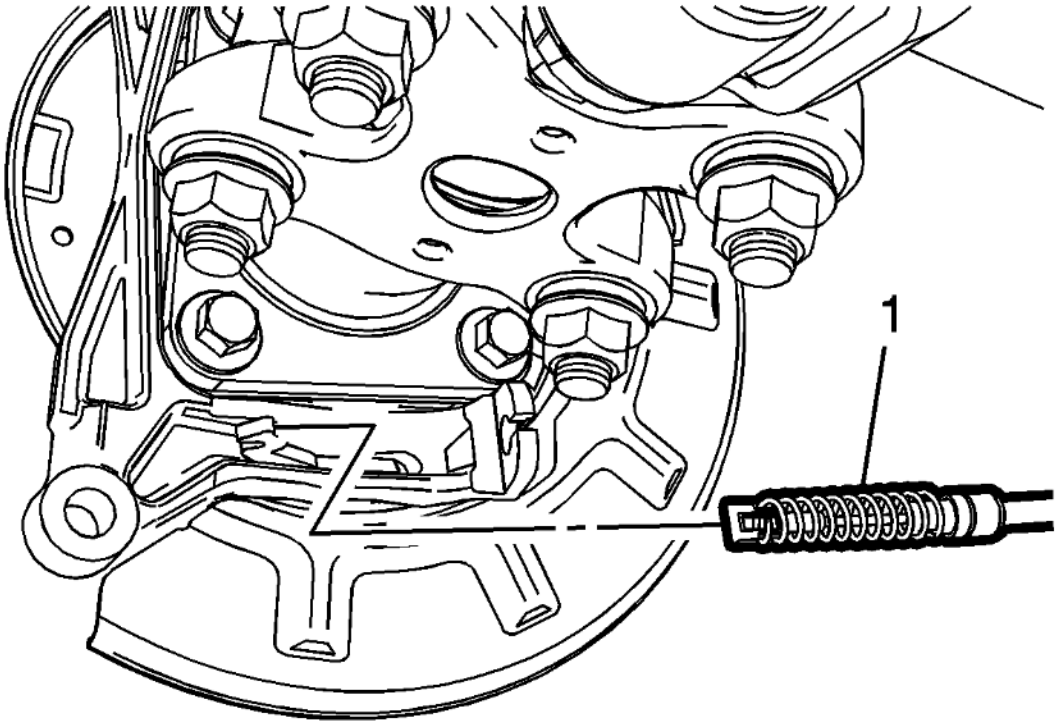


Fig. 56: Parking Brake Cable Eye
Courtesy of GENERAL MOTORS COMPANY

2. Connect the parking brake cable eye (1) to the parking brake actuator lever.
3. Install the parking brake cable to the cable bracket by compressing the parking brake cable spring toward the cable eye and passing the cable through the cable bracket slot.
4. Ensure the parking brake cable conduit is fully seated in the cable bracket.

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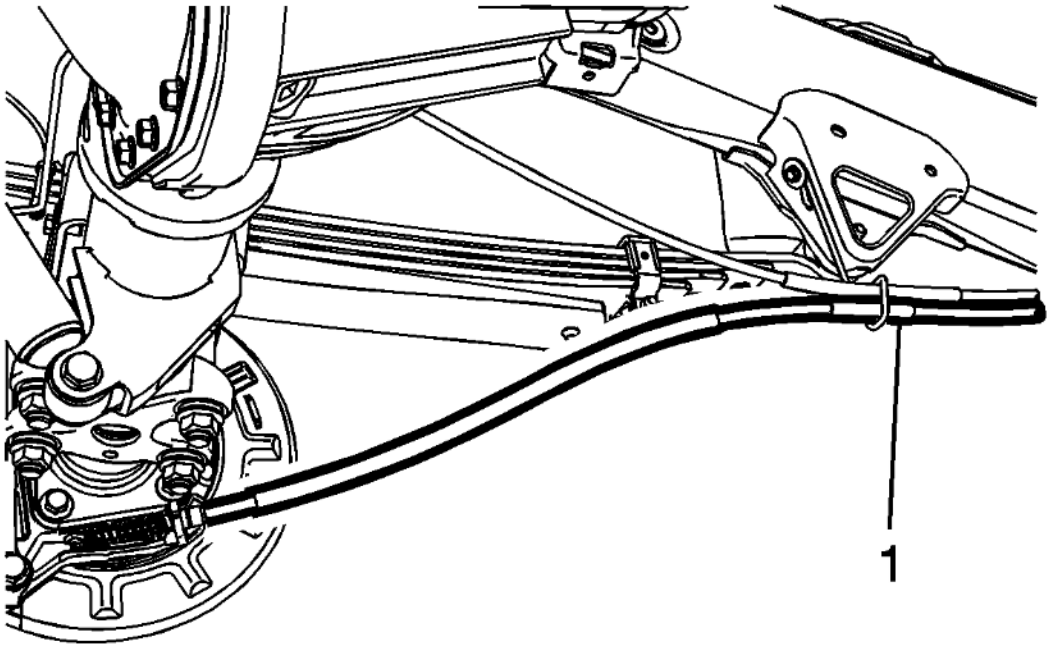


Fig. 57: Parking Brake Cable Guide
Courtesy of GENERAL MOTORS COMPANY

5. Feed the parking brake cable through the parking brake cable guide (1).

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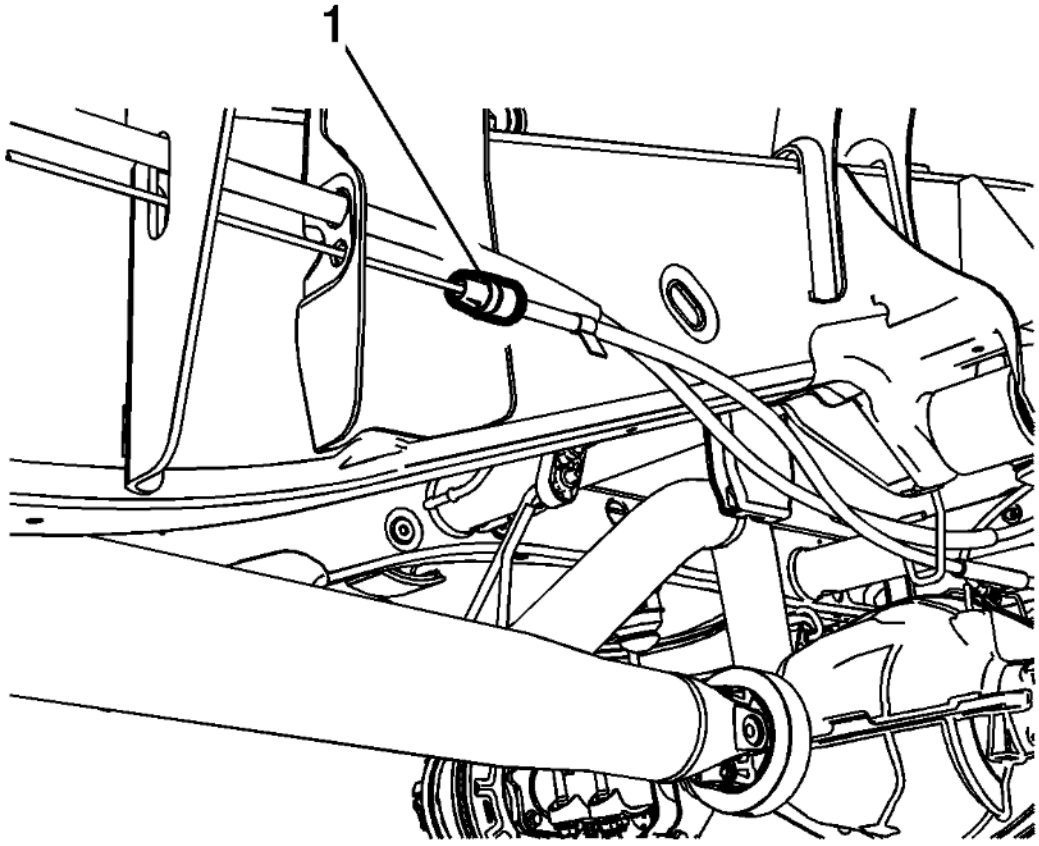


Fig. 58: Left Rear Parking Brake Cable Retainer
Courtesy of GENERAL MOTORS COMPANY

6. Compress the locking tabs and install the left rear parking brake cable retainer (1) to the frame.

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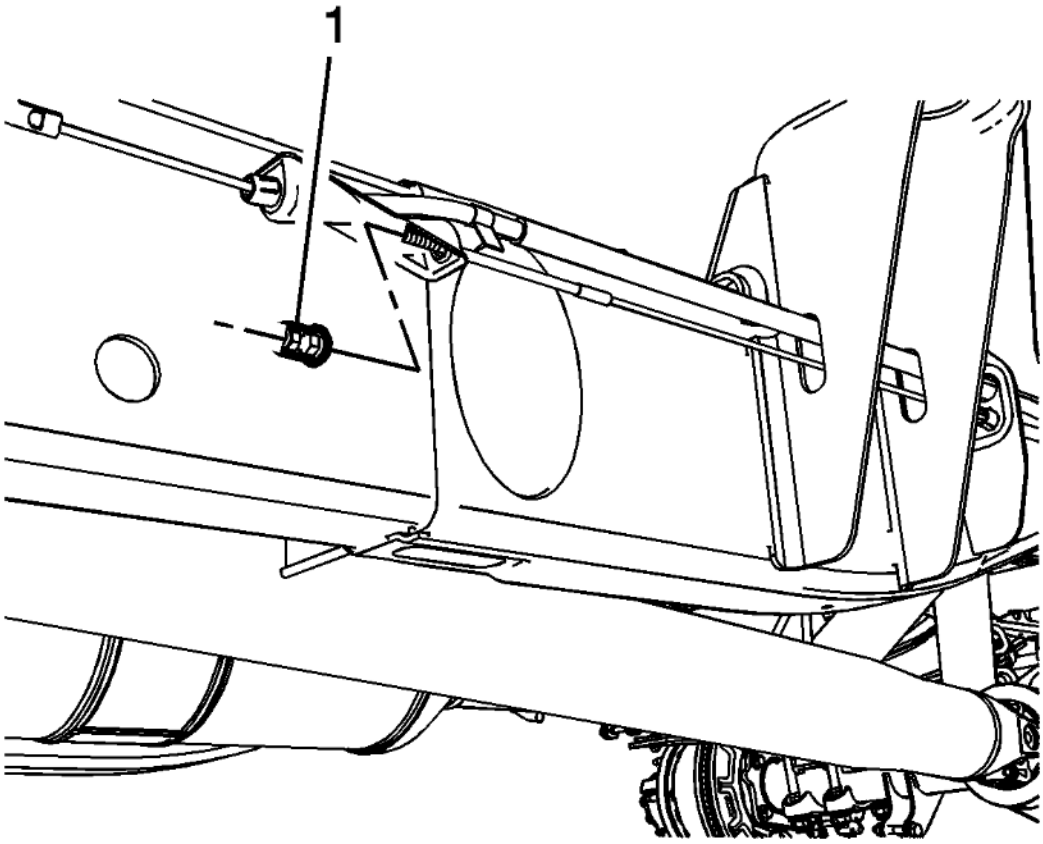


Fig. 59: Parking Brake Equalizer Adjuster Nut
Courtesy of GENERAL MOTORS COMPANY

7. Loosely install the parking brake equalizer adjuster nut (1).
8. Adjust the parking brake. Refer to **Parking Brake Adjustment**.

PARKING BRAKE REAR CABLE REPLACEMENT - LEFT SIDE (JD9)

Removal Procedure

1. Disable the parking brake cable adjuster. Refer to **Parking Brake Cable Adjuster Disabling**.
2. Raise and support the vehicle. Refer to **Lifting and Jacking the Vehicle** .

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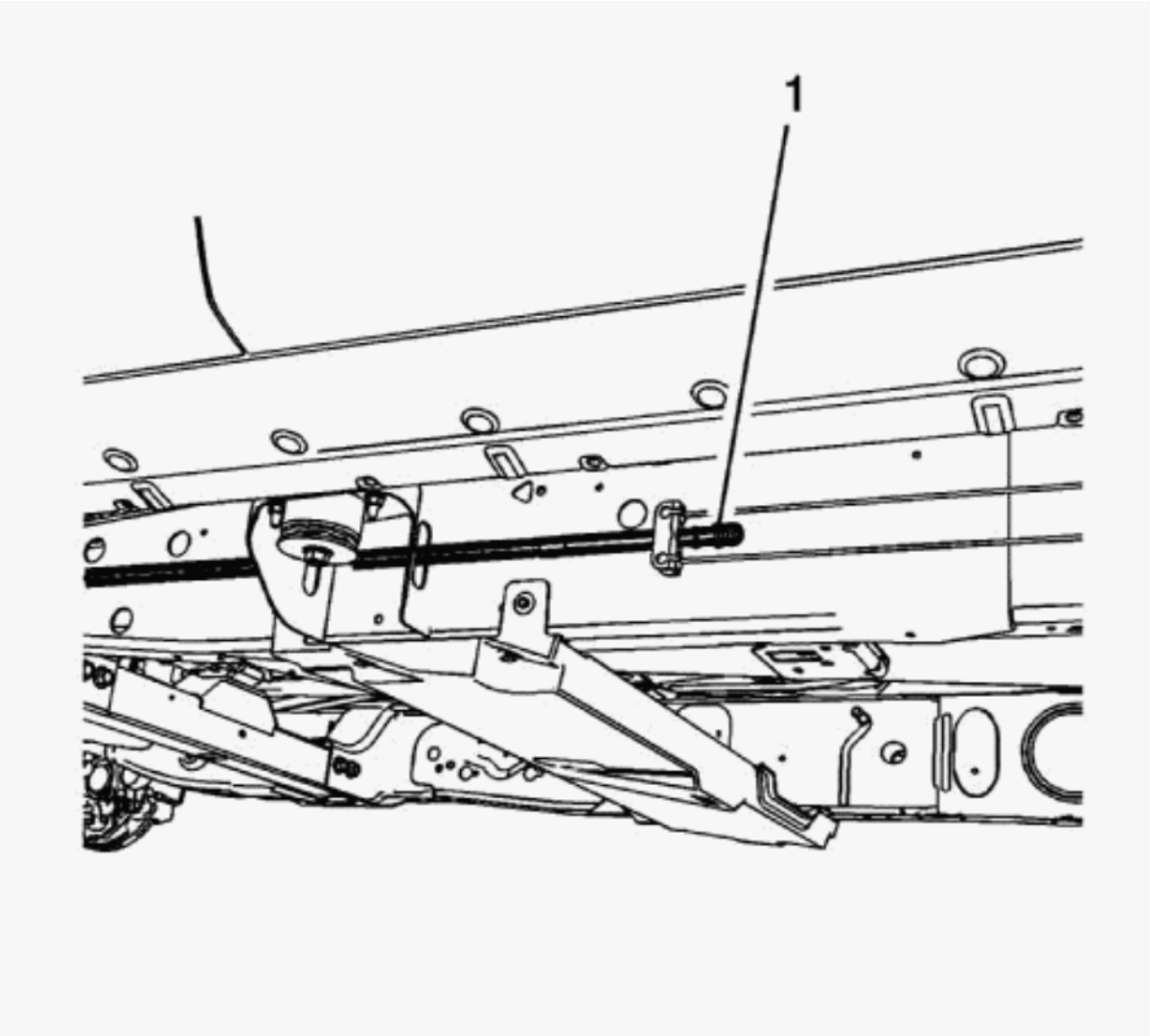


Fig. 60: Intermediate Parking Brake Cable Equalizer Nut
Courtesy of GENERAL MOTORS COMPANY

3. Loosen the intermediate parking brake cable equalizer nut (1).

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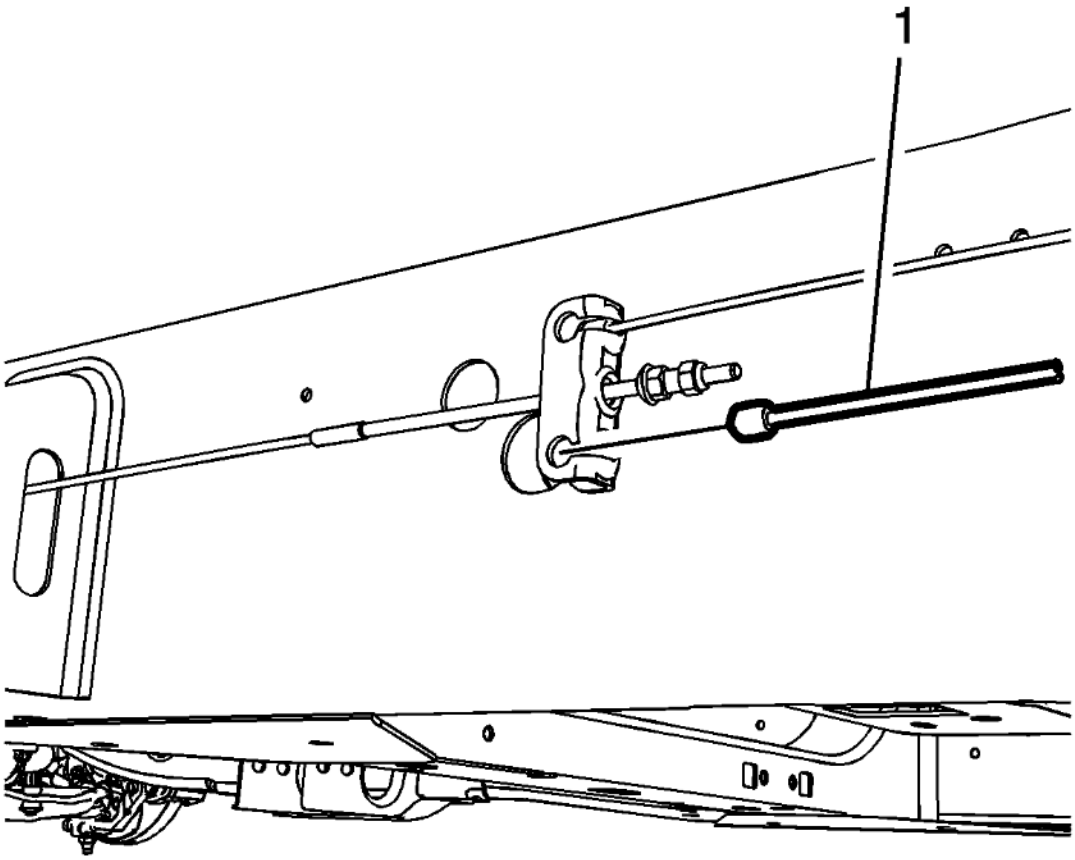


Fig. 61: Left Rear Park Brake Cable
Courtesy of GENERAL MOTORS COMPANY

4. Disconnect the left rear parking brake cable (1) from the equalizer.
5. Release the left rear parking brake cable from the frame bracket by compressing the locking tabs and pulling the cable conduit rearward.
6. Remove the left rear parking brake cable from the cable guides on the frame rail.

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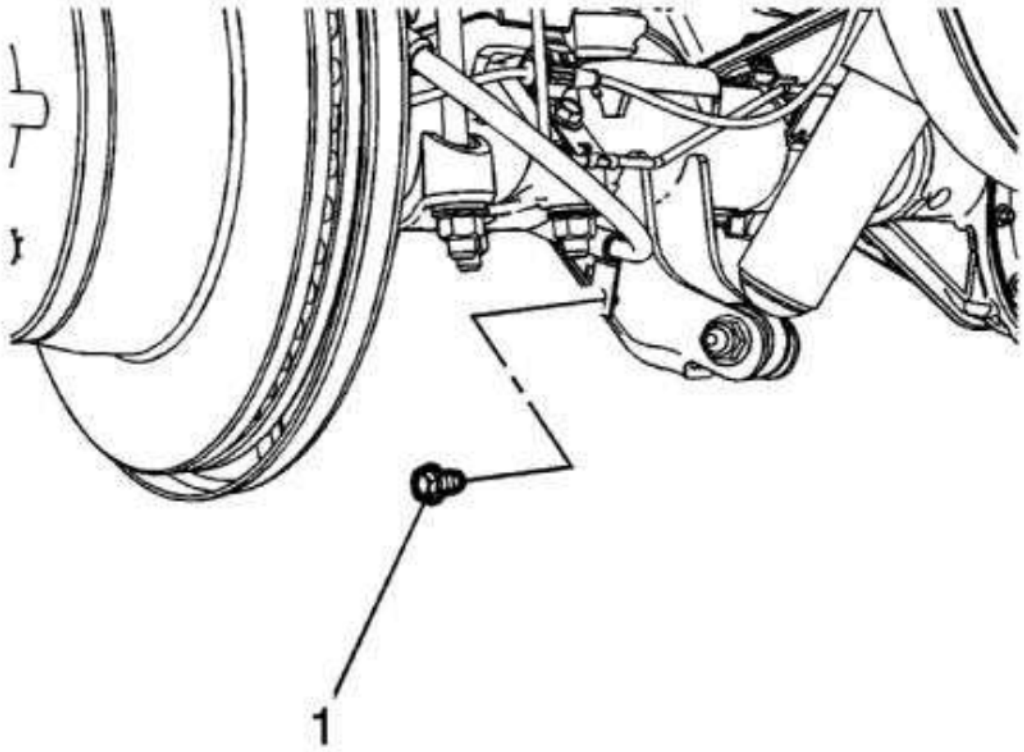


Fig. 62: Rear Parking Brake Cable Clip Bolt
Courtesy of GENERAL MOTORS COMPANY

7. Remove the rear parking brake cable clip bolt (1).

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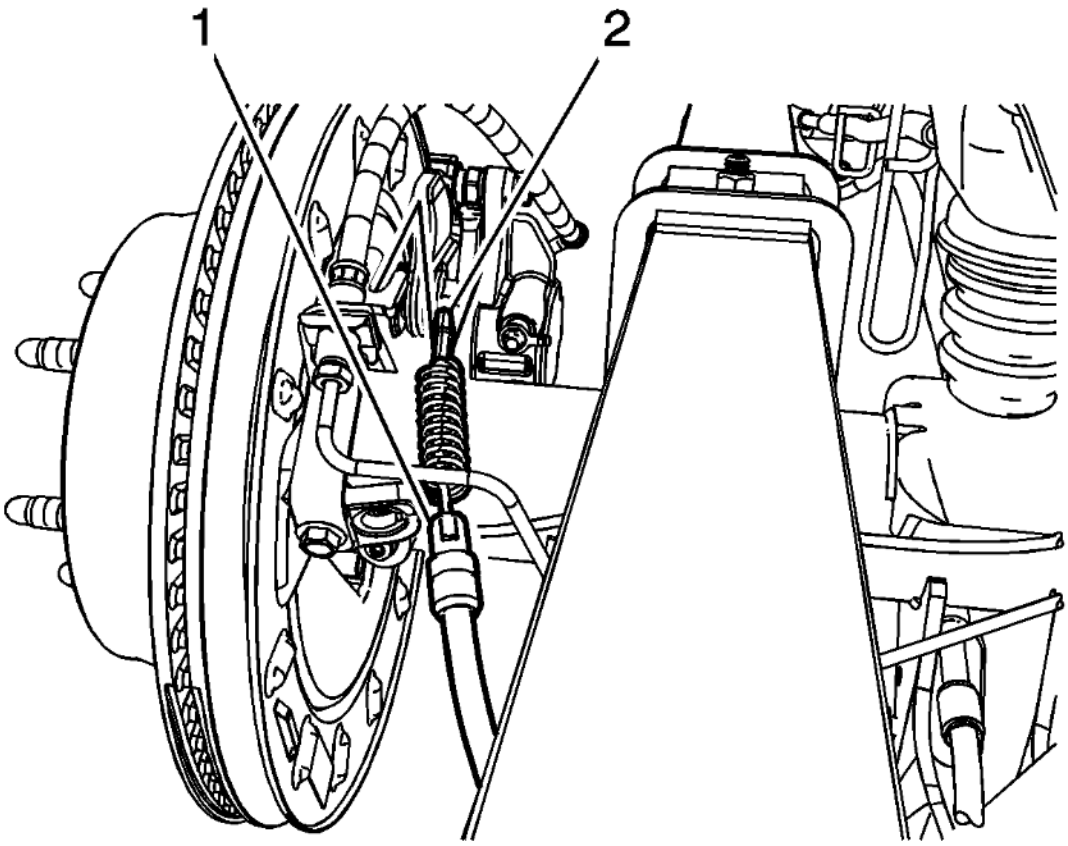


Fig. 63: Brake Cable Conduit And Park Brake Cable Eye
Courtesy of GENERAL MOTORS COMPANY

8. Release the left rear parking brake cable from the rear axle bracket by compressing the locking tabs and pulling the park brake cable conduit (1) rearward.
9. Disconnect the left rear parking brake cable eye (2) from the park brake actuator lever.
10. Remove the left rear parking brake cable assembly from the vehicle.

Installation Procedure

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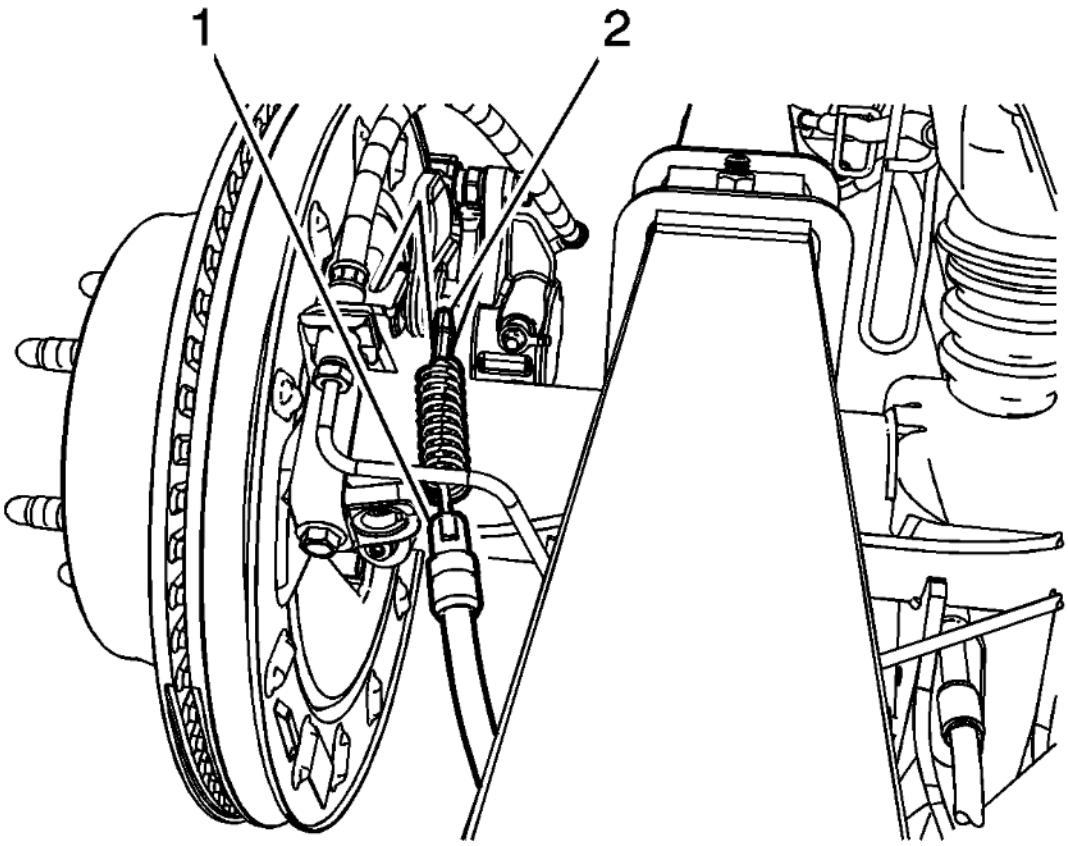


Fig. 64: Brake Cable Conduit And Park Brake Cable Eye
Courtesy of GENERAL MOTORS COMPANY

1. Install the park brake cable to the rear axle bracket by pulling the cable conduit (1) rearward and inserting the cable conduit into the rear axle bracket.
2. Ensure the locking tabs on the cable conduit are fully engaged into the rear axle bracket.
3. Connect the left park brake cable eye (2) to the park brake actuator lever.

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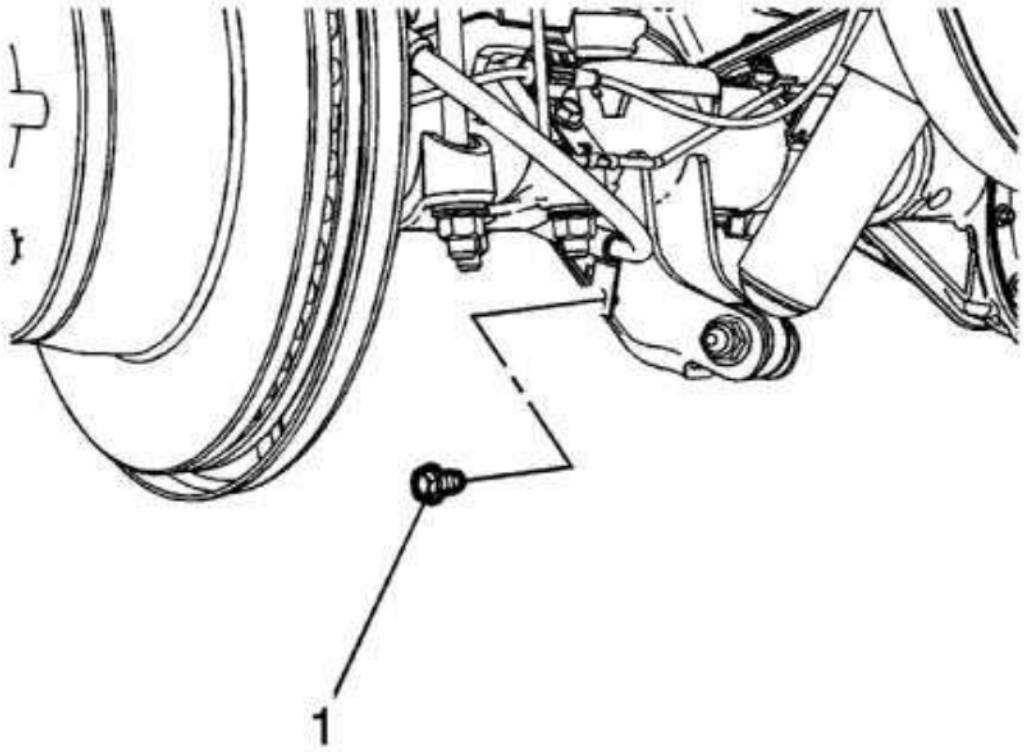


Fig. 65: Rear Parking Brake Cable Clip Bolt
Courtesy of GENERAL MOTORS COMPANY

CAUTION: Refer to Fastener Caution .

4. Install the rear parking brake cable clip bolt (1) and tighten to 22 (16 lb ft).
5. Install the left rear parking brake cable to the cable guides on the frame rail.
6. Insert the park brake cable conduit into the frame bracket.
7. Ensure the locking tabs on the cable conduit are fully engaged into the frame bracket.

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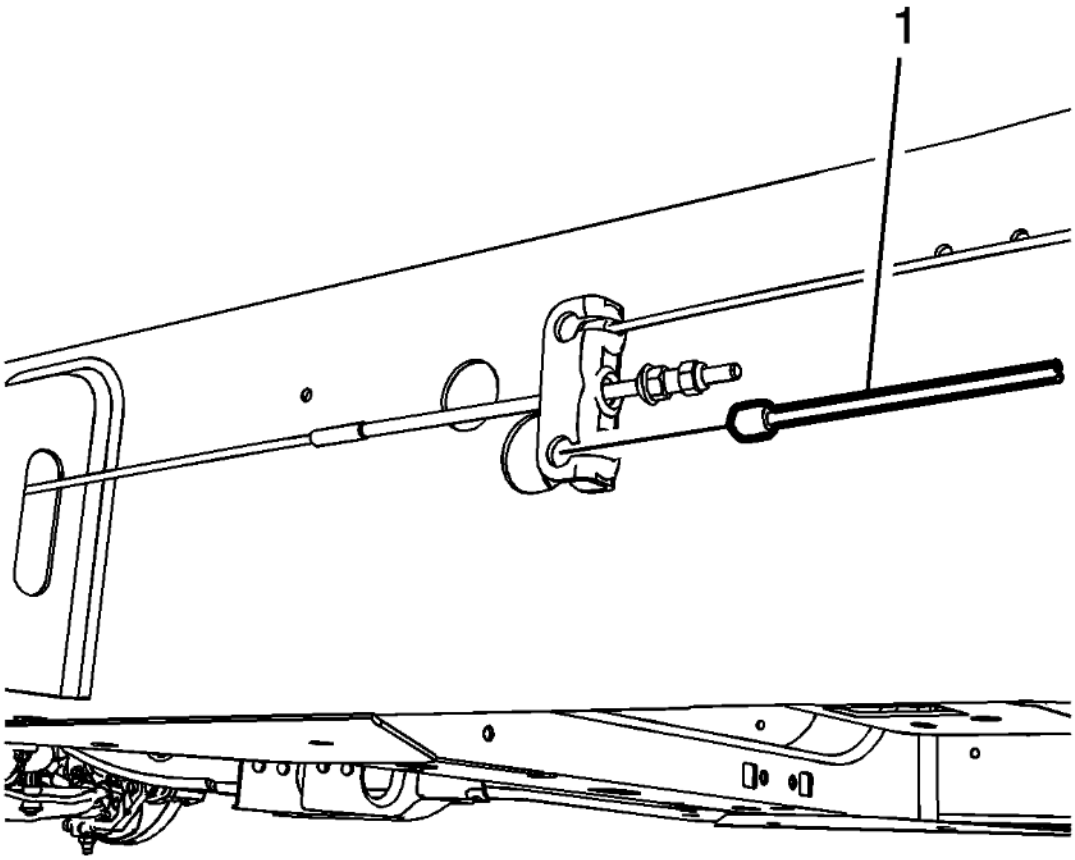


Fig. 66: Left Rear Park Brake Cable
Courtesy of GENERAL MOTORS COMPANY

8. Connect the left rear parking brake cable (1) to the equalizer.
9. Adjust the park brake. Refer to **Parking Brake Adjustment**.
10. Enable the parking brake cable adjuster. Refer to **Parking Brake Cable Adjuster Enabling**.

PARKING BRAKE REAR CABLE REPLACEMENT - RIGHT SIDE (J95, J96)

Removal Procedure

1. Release the park brake.
2. Raise and support the vehicle. Refer to **Lifting and Jacking the Vehicle** .

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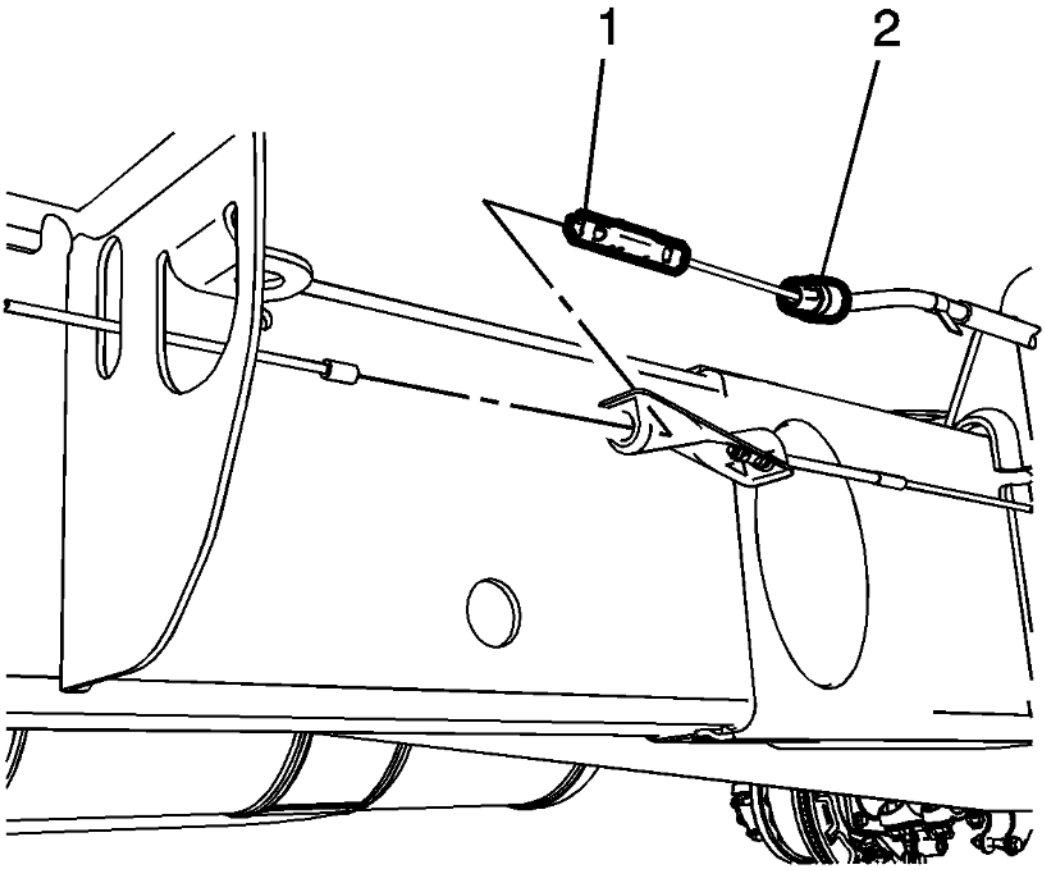


Fig. 67: Right Parking Brake Cable Connector
Courtesy of GENERAL MOTORS COMPANY

3. Drill a 3 mm (1/8 in) hole through the dimple in the right parking brake cable connector (1) where the front parking brake cable is connected.
4. Pull the parking brake equalizer forward and disconnect the right parking brake cable connector from the intermediate parking brake cable.
5. Compress the locking tabs on the right parking brake cable conduit (2) and remove the parking brake cable from the equalizer.

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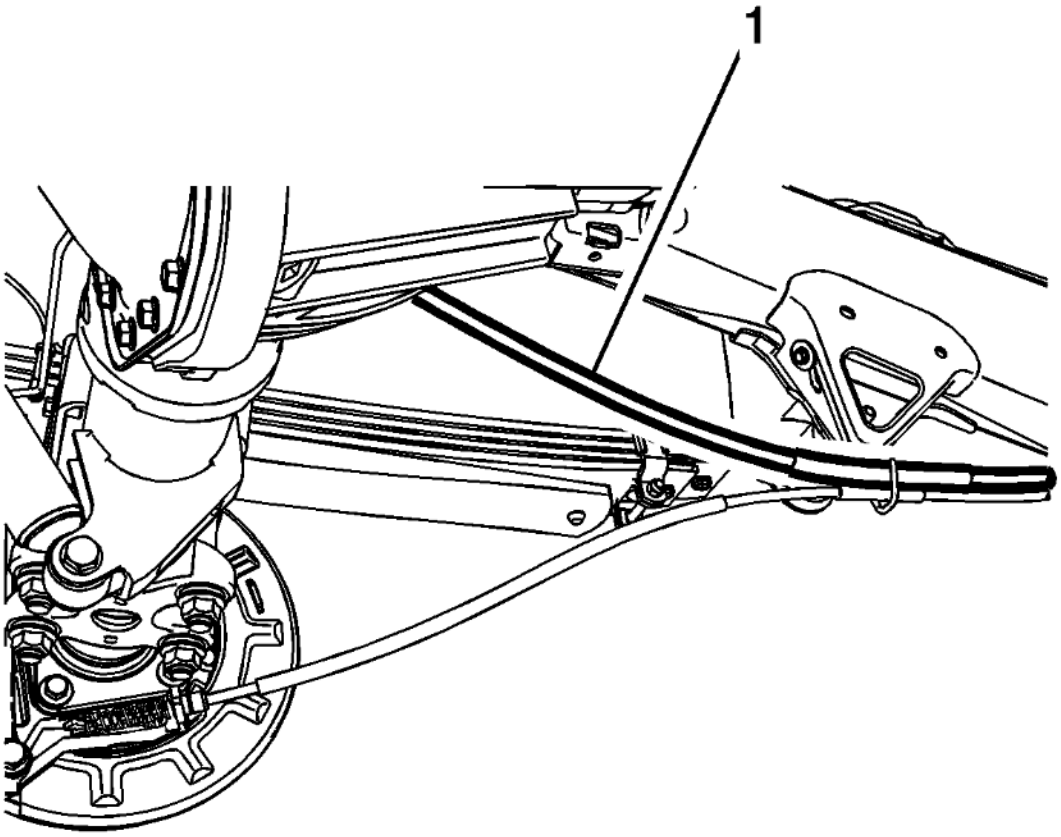


Fig. 68: Parking Brake Cable
Courtesy of GENERAL MOTORS COMPANY

6. Pull the parking brake cable (1) through the parking brake cable guide on the spring perch.
7. Release the parking brake cable from the parking brake cable guide on the left frame rail.

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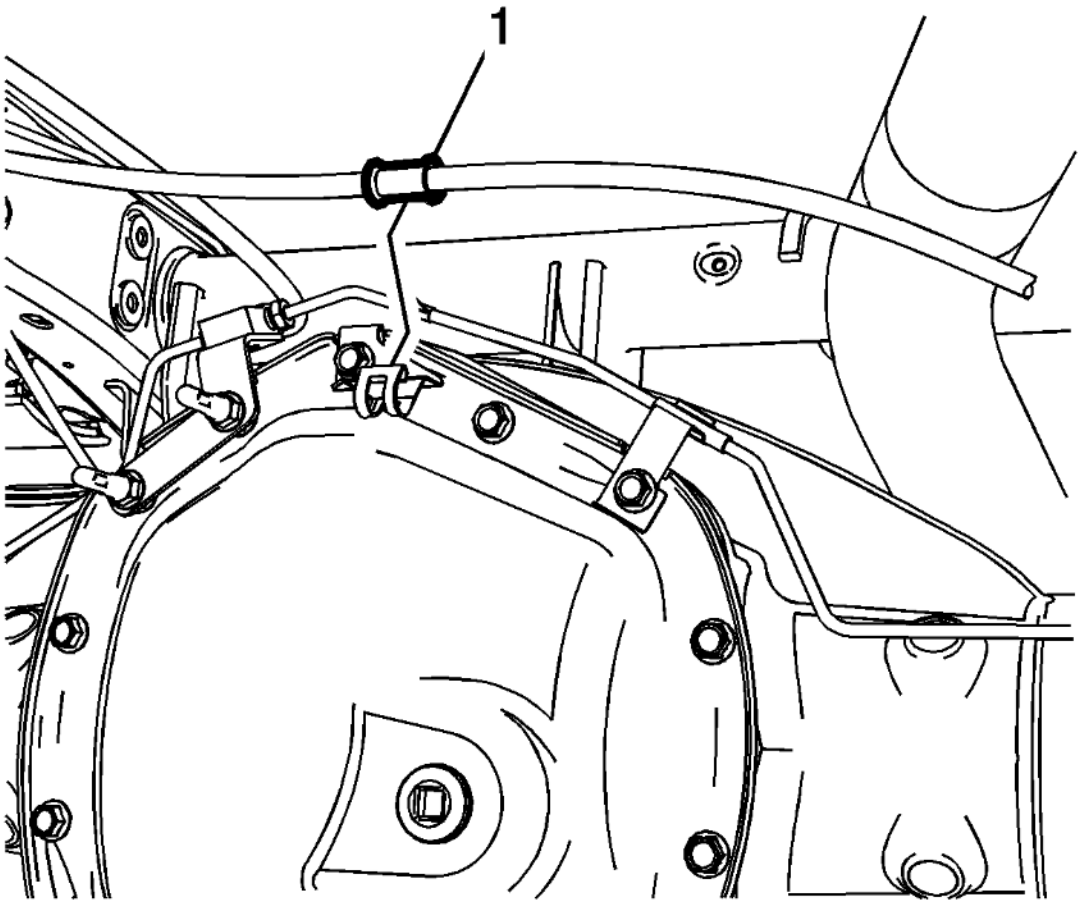


Fig. 69: Parking Brake Cable
Courtesy of GENERAL MOTORS COMPANY

8. Remove the parking brake cable (1) from the retaining clip on the rear axle housing cover.

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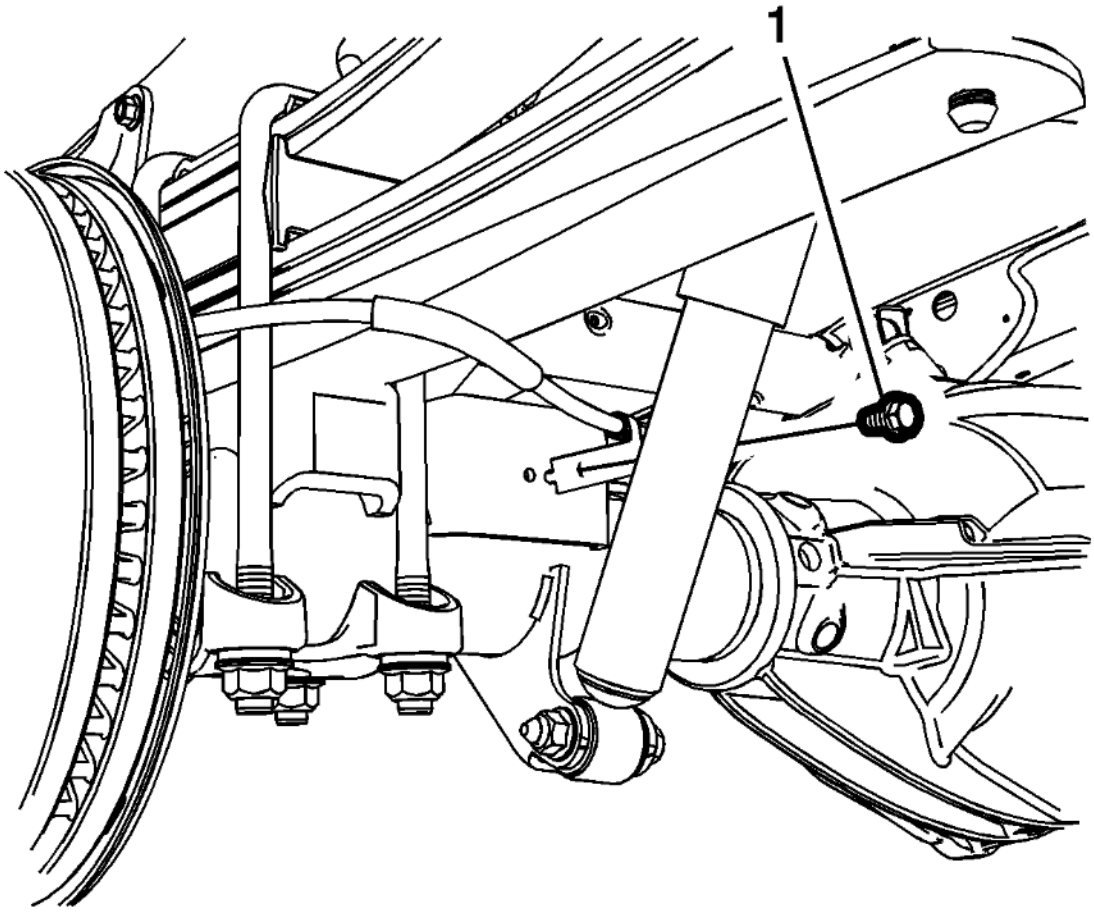


Fig. 70: Parking Brake Cable Bracket Bolt
Courtesy of GENERAL MOTORS COMPANY

9. Remove the parking brake cable bracket bolt (1).

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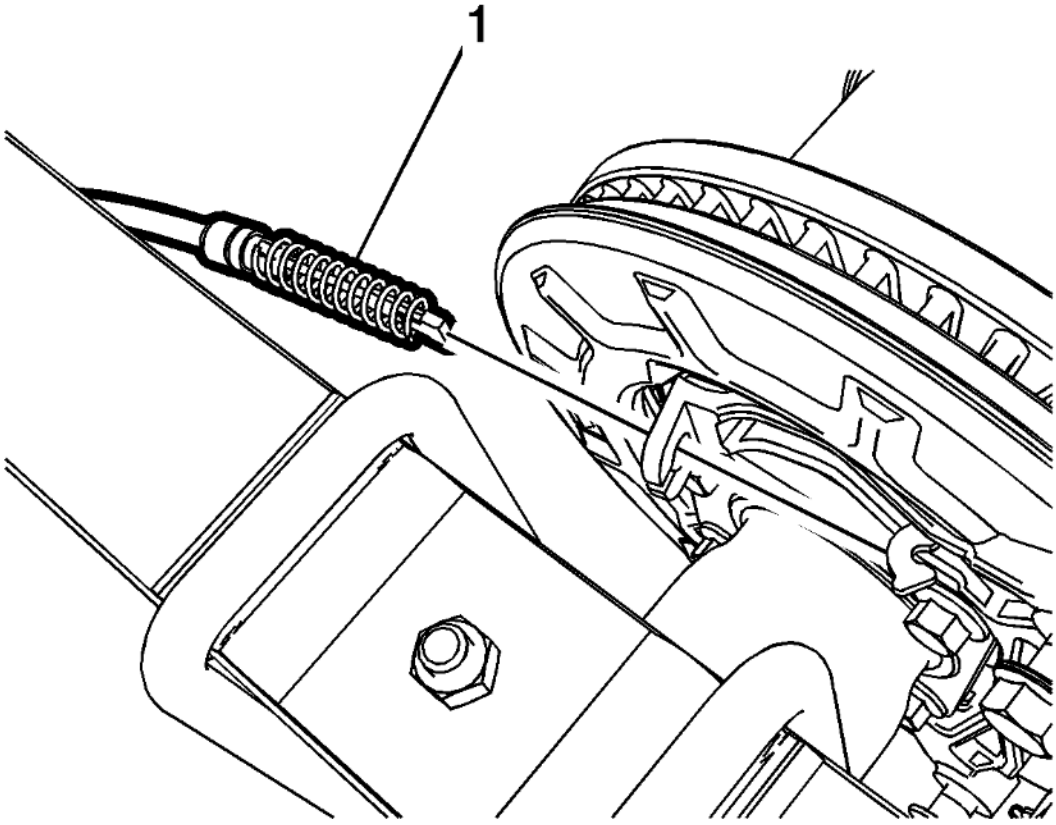


Fig. 71: Parking Brake Cable Eye
Courtesy of GENERAL MOTORS COMPANY

10. Disconnect the parking brake cable eye (1) from the parking brake actuator lever.
11. Release the parking brake cable locking tabs, remove the parking brake cable from the cable bracket by compressing the parking brake cable spring toward the cable eye and passing the cable through the cable bracket slot.
12. Remove the parking brake cable.

Installation Procedure

1. Position the parking brake cable to the vehicle.

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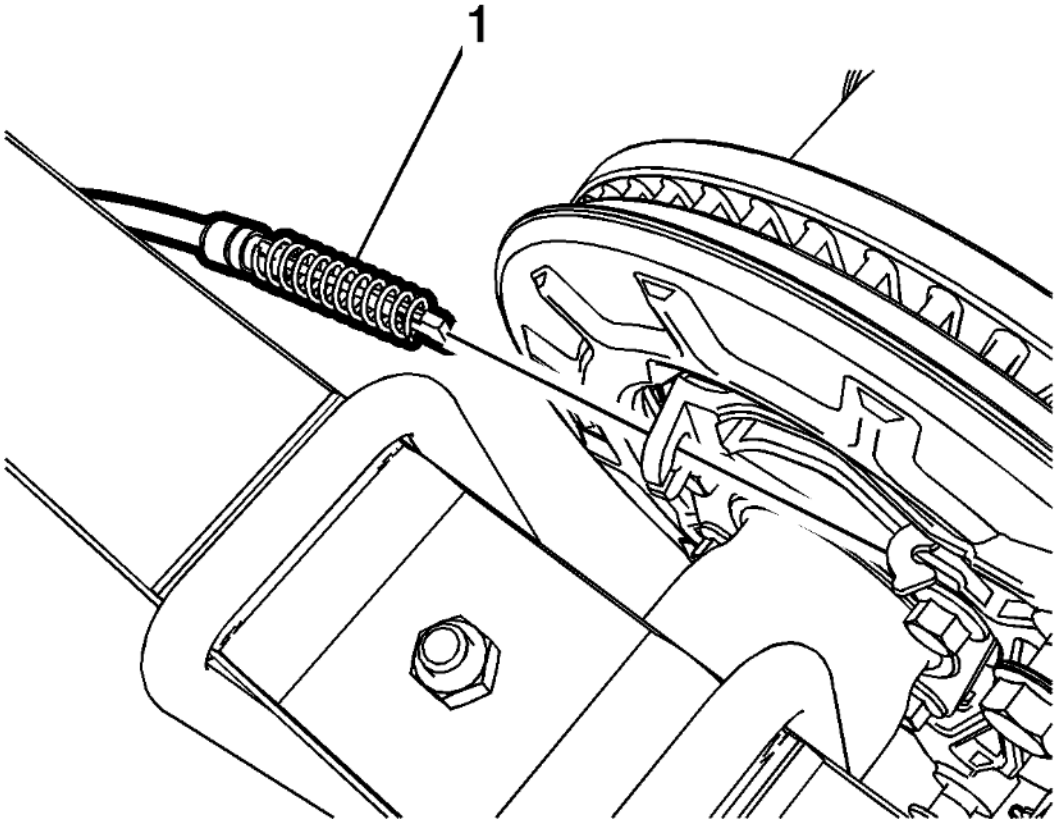


Fig. 72: Parking Brake Cable Eye
Courtesy of GENERAL MOTORS COMPANY

2. Connect the parking brake cable eye (1) to the parking brake actuator lever.
3. Install the parking brake cable to the cable bracket by compressing the parking brake cable spring toward the cable eye and passing the cable through the cable bracket slot.
4. Ensure the parking brake cable conduit is fully seated in the cable bracket.

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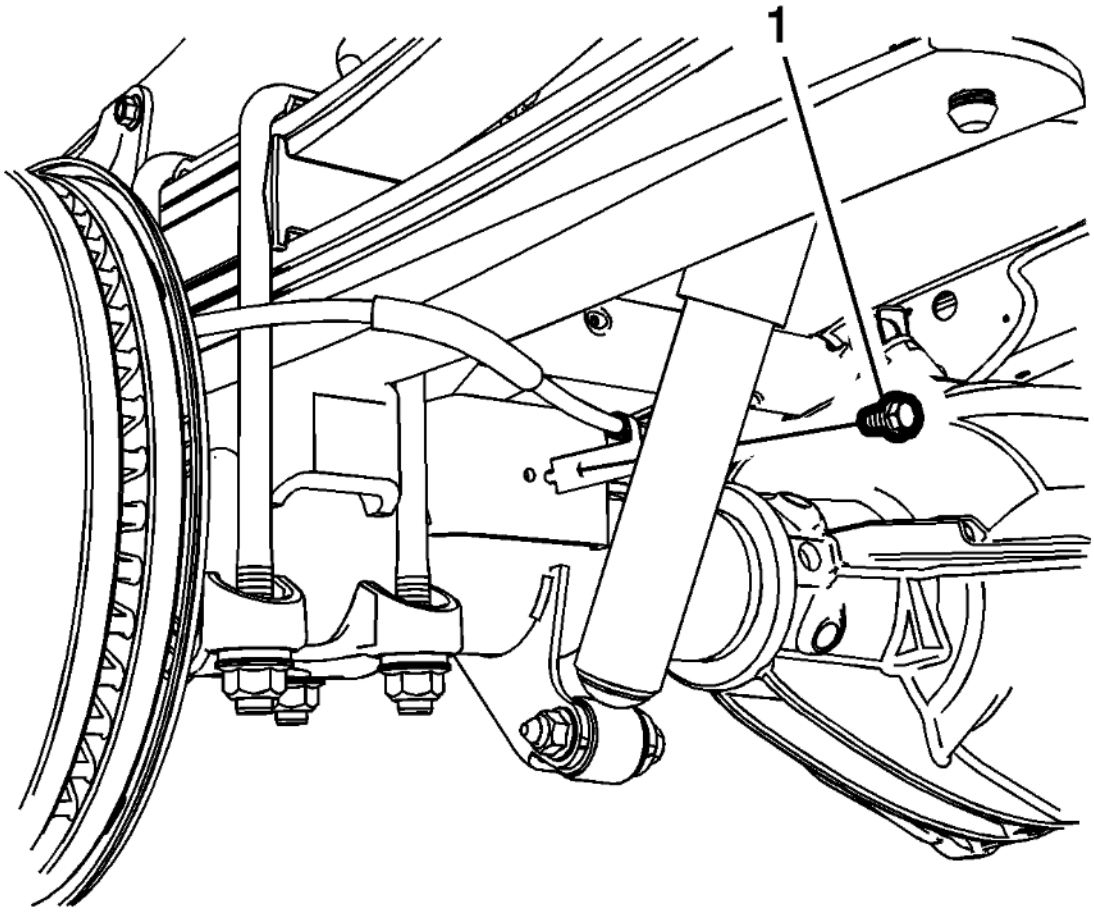


Fig. 73: Parking Brake Cable Bracket Bolt
Courtesy of GENERAL MOTORS COMPANY

CAUTION: **Refer to Fastener Caution .**

5. Install the parking brake cable bracket bolt (1) and tighten to 22 N.m (16 lb ft).

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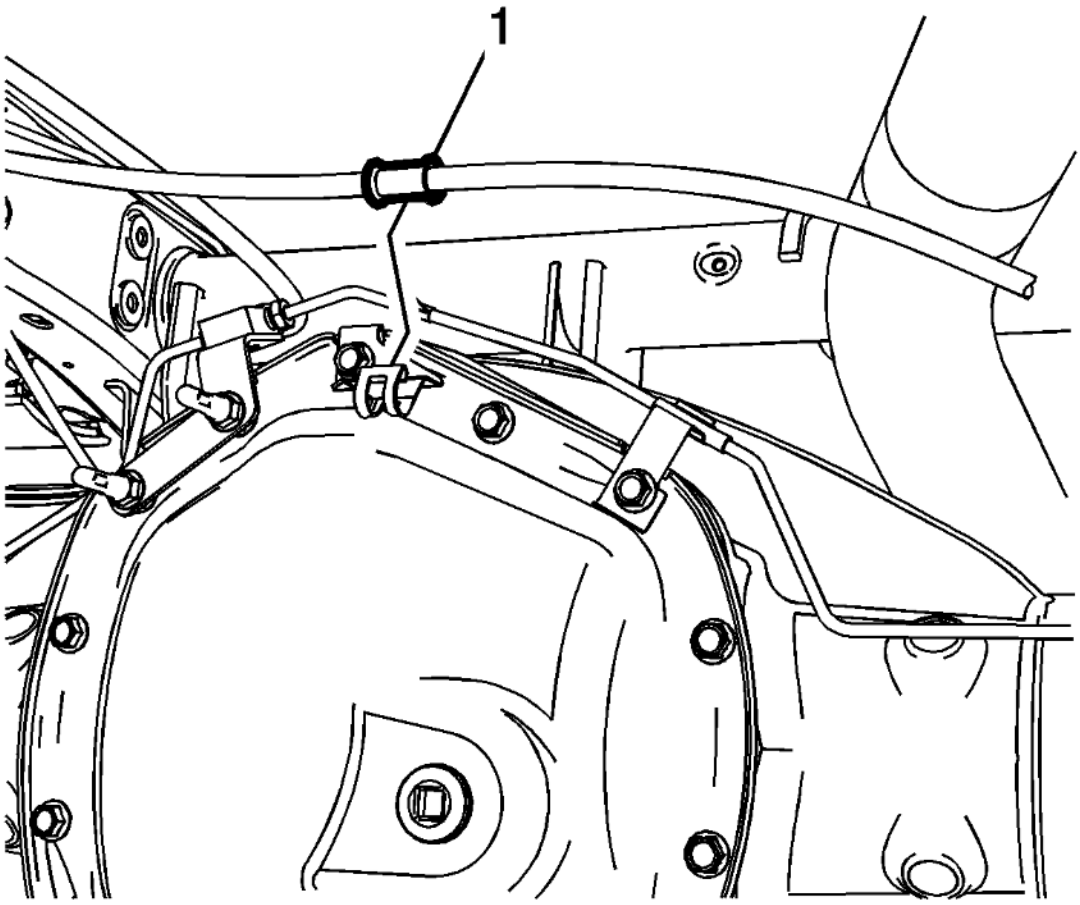


Fig. 74: Parking Brake Cable
Courtesy of GENERAL MOTORS COMPANY

6. Install the parking brake cable (1) to the retaining clip on the rear axle housing cover.
7. Install the parking brake cable to the parking brake cable guide on the left frame rail.

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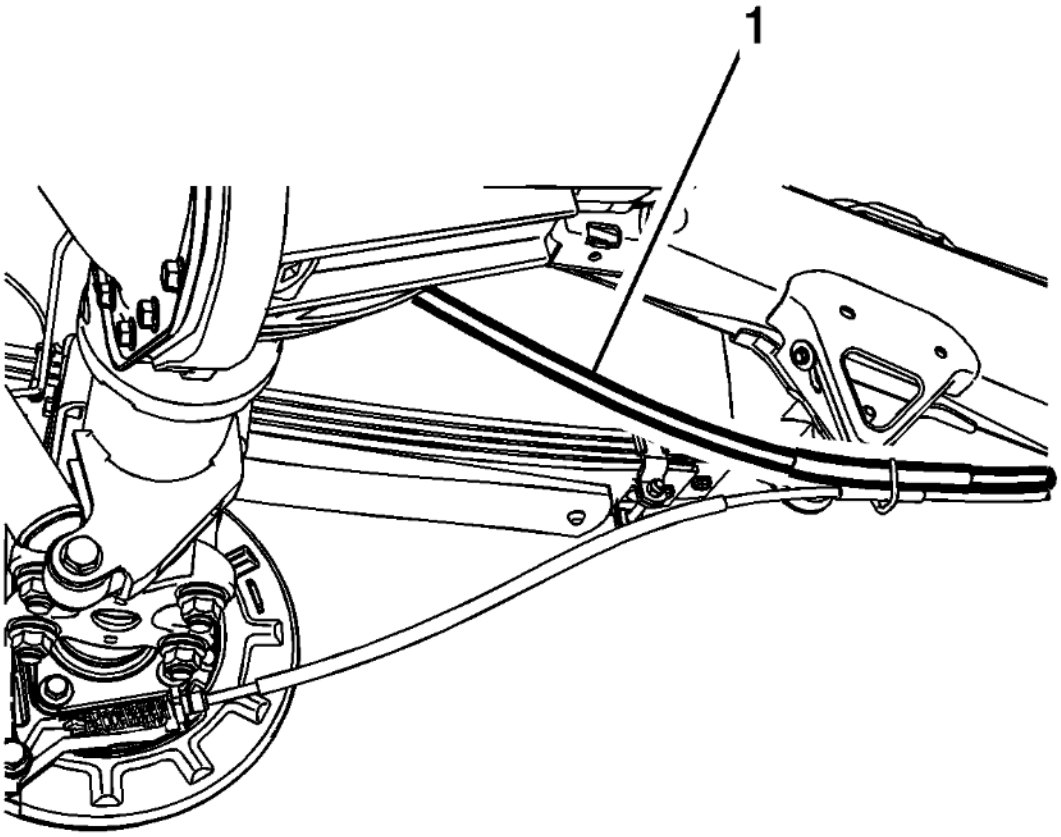


Fig. 75: Parking Brake Cable
Courtesy of GENERAL MOTORS COMPANY

8. Feed the parking brake cable (1) through the parking brake cable guide on the spring perch.

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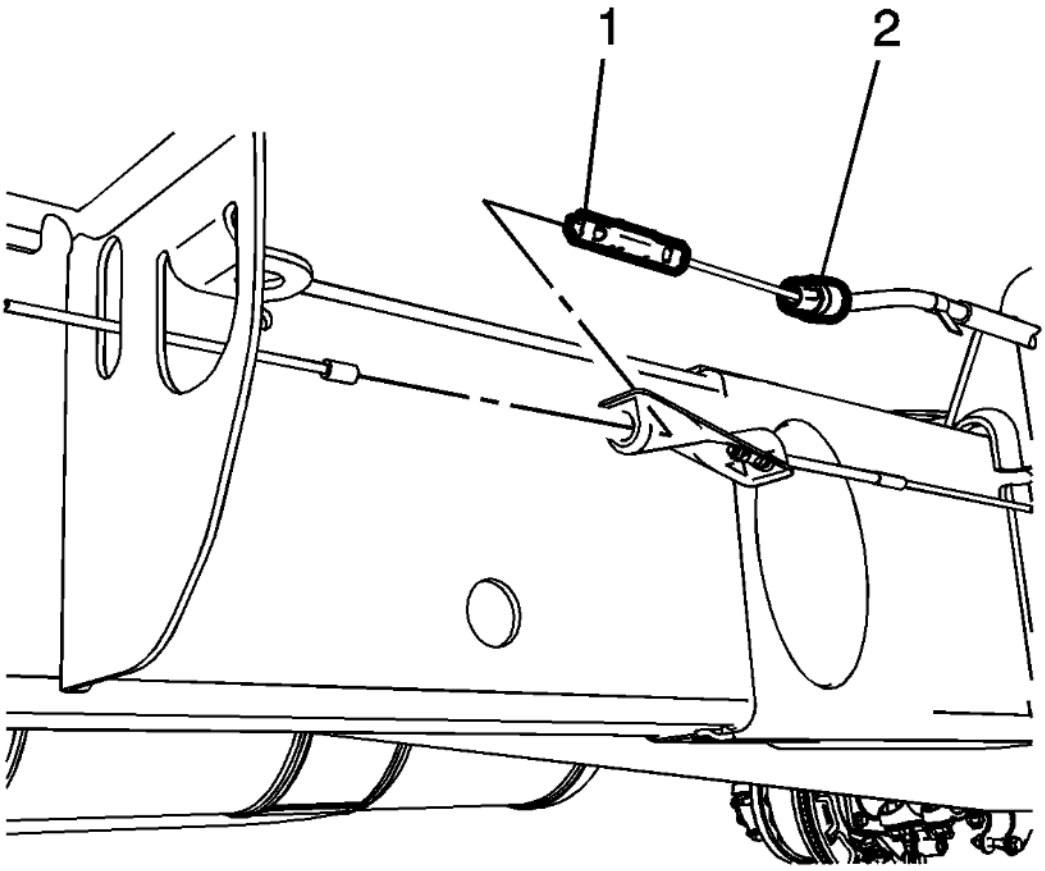


Fig. 76: Right Parking Brake Cable Connector
Courtesy of GENERAL MOTORS COMPANY

9. Pull the parking brake equalizer forward and install the right parking brake cable connector (1) to the intermediate parking brake cable.
10. Compress the locking tabs on the right parking brake cable conduit (2) and install the parking brake cable to the equalizer.
11. Adjust the parking brake. Refer to **Parking Brake Adjustment**.

PARKING BRAKE REAR CABLE REPLACEMENT - RIGHT SIDE (JD9)

Removal Procedure

1. Disable the parking brake cable adjuster. Refer to **Parking Brake Cable Adjuster Disabling**.
2. Raise and support the vehicle. Refer to **Lifting and Jacking the Vehicle** .

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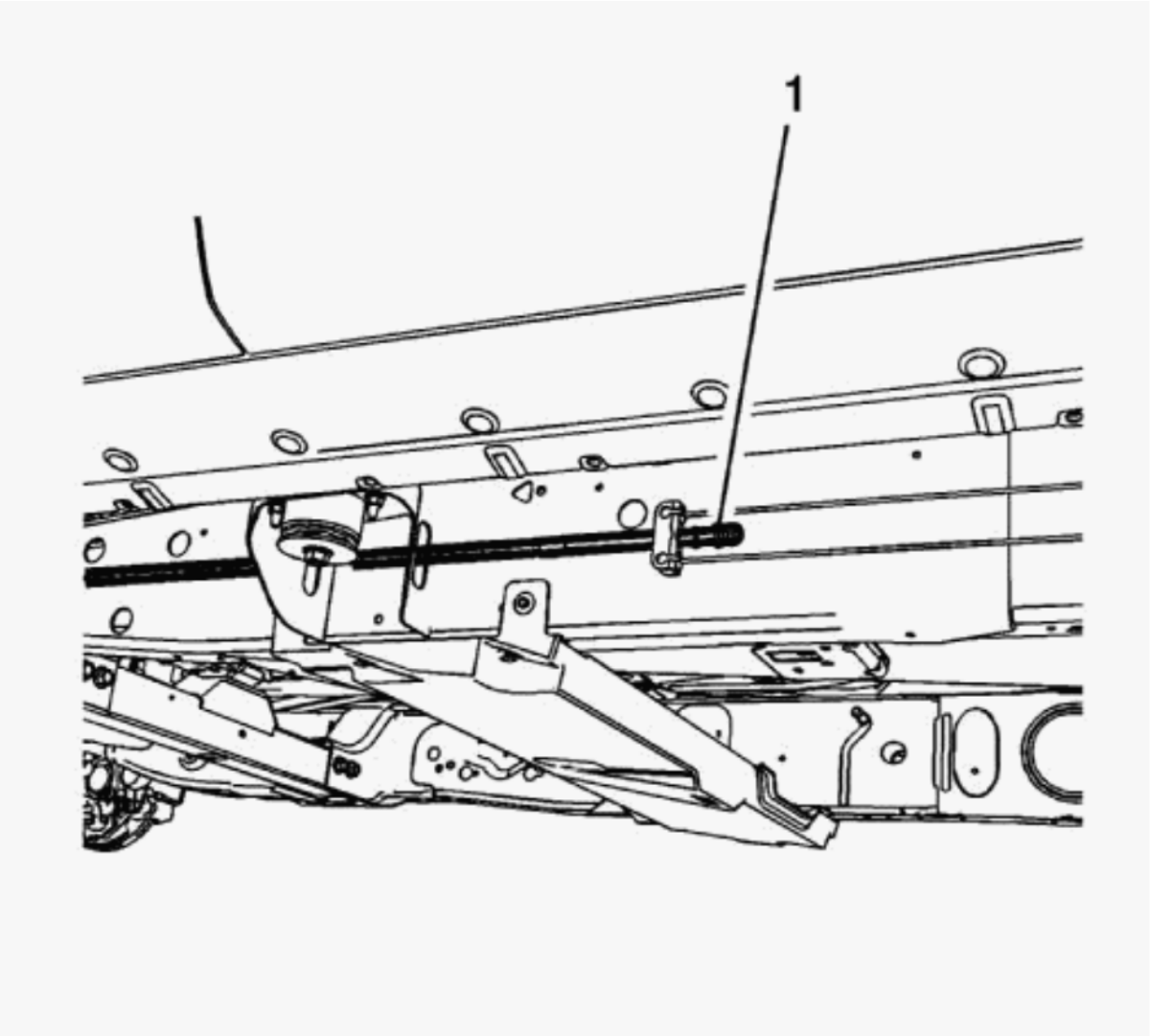


Fig. 77: Intermediate Parking Brake Cable Equalizer Nut
Courtesy of GENERAL MOTORS COMPANY

3. Loosen the intermediate parking brake cable equalizer nut (1).

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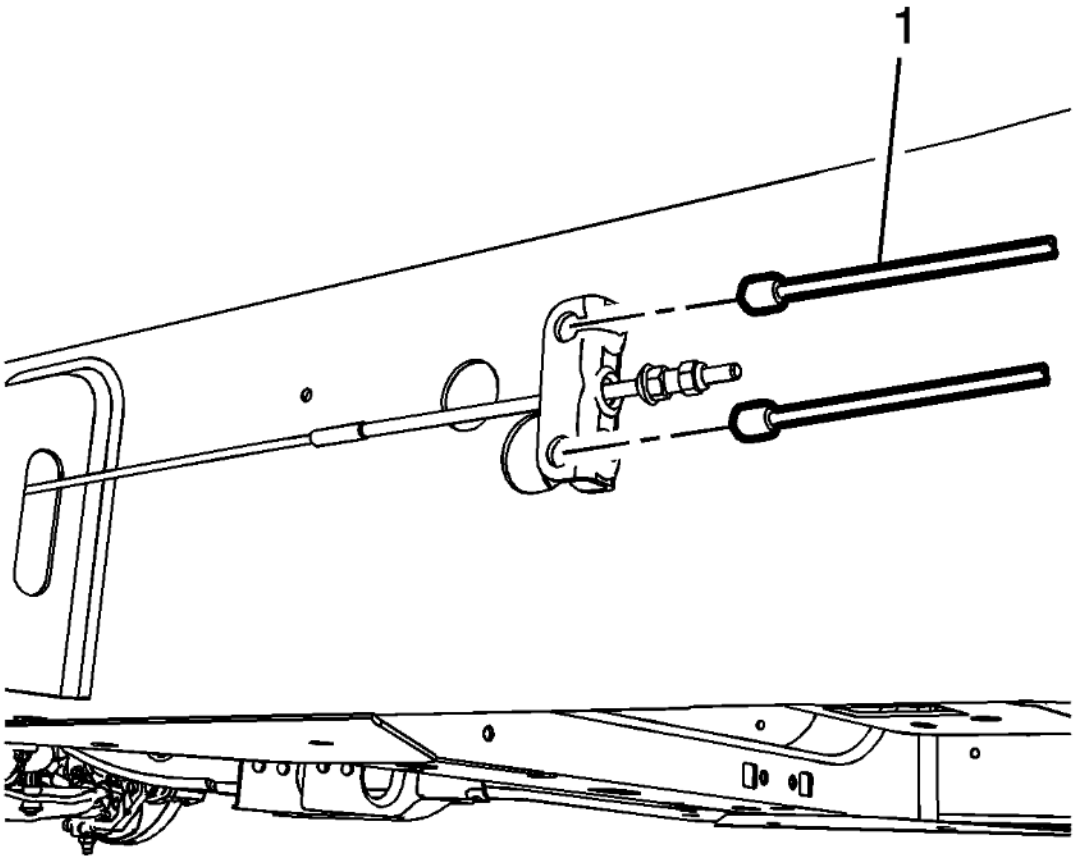


Fig. 78: Right Rear Park Brake Cable
Courtesy of GENERAL MOTORS COMPANY

4. Disconnect the right rear parking brake cable (1) from the equalizer.
5. Release the right rear parking brake cable from the frame bracket by compressing the locking tabs and pulling the cable conduit rearward.
6. Remove the right rear parking brake cable from the cable guides on the frame rail.

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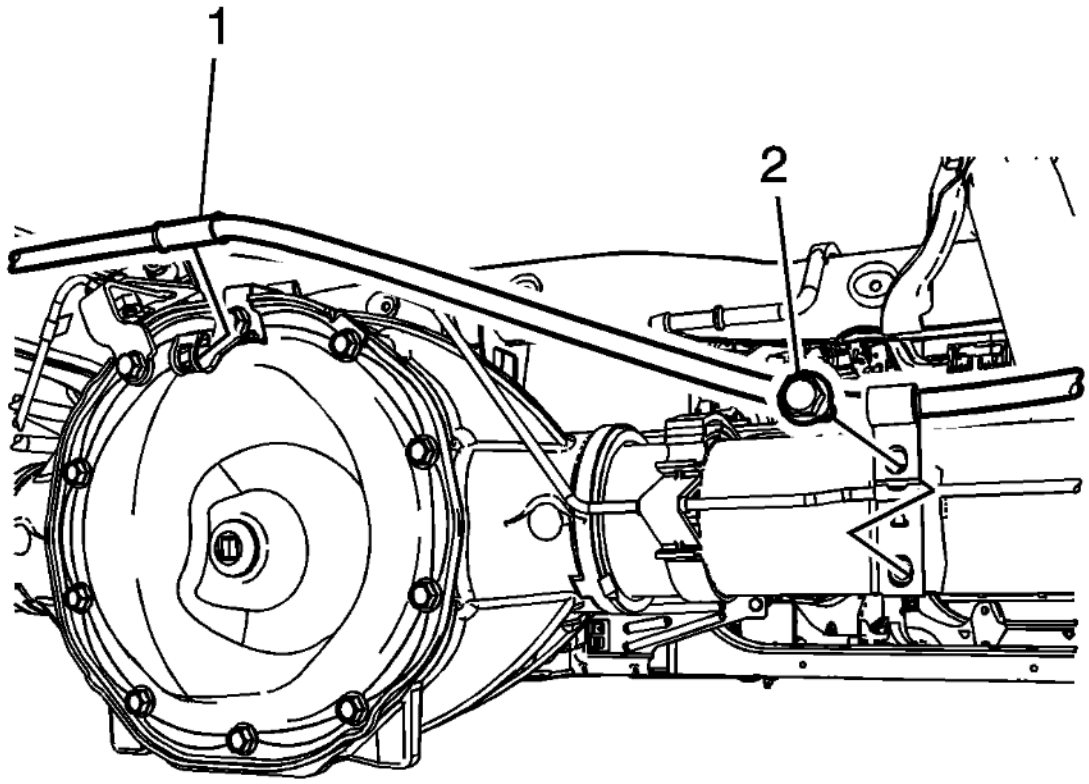


Fig. 79: Park Brake Cable Mounting
Courtesy of GENERAL MOTORS COMPANY

7. Release the right rear parking brake cable (1) from the rear axle housing cover clip.
8. Remove the rear parking brake cable clip bolt (2).

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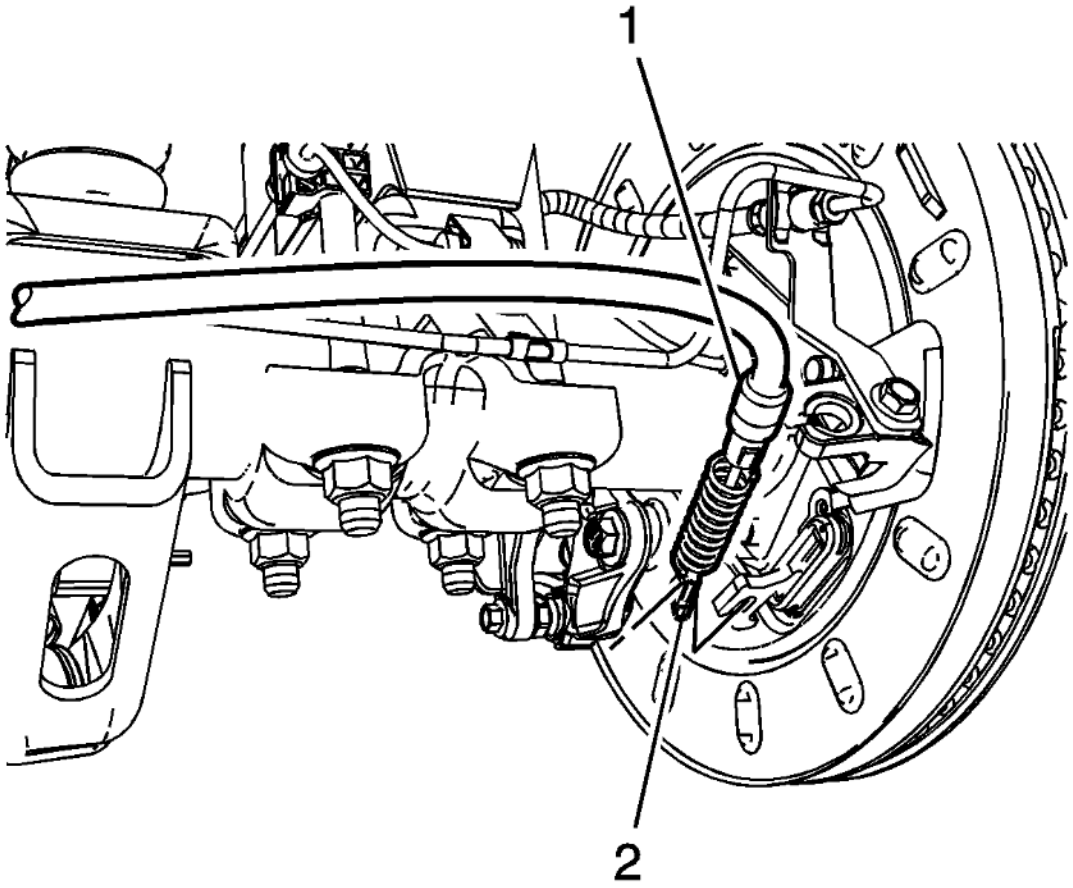


Fig. 80: Park Brake Cable Conduit And Park Brake Cable Eye
Courtesy of GENERAL MOTORS COMPANY

9. Release the right rear parking brake cable from the rear axle bracket by compressing the locking tabs and pulling the park brake cable conduit (1) rearward.
10. Disconnect the right rear parking brake cable eye (2) from the park brake actuator lever.
11. Remove the right rear parking brake cable assembly from the vehicle.

Installation Procedure

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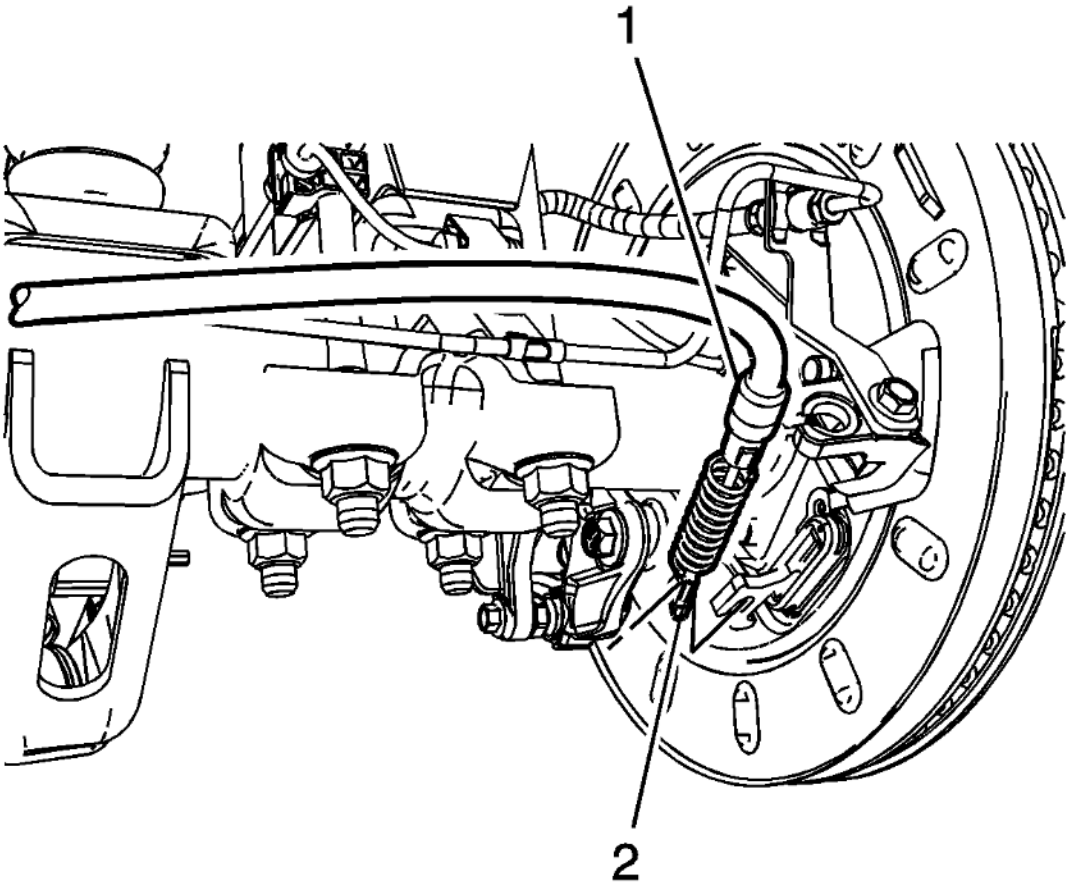


Fig. 81: Park Brake Cable Conduit And Park Brake Cable Eye
Courtesy of GENERAL MOTORS COMPANY

1. Install the park brake cable to the rear axle bracket by pulling the cable conduit (1) rearward and inserting the cable conduit into the rear axle bracket.
2. Ensure the locking tabs on the cable conduit are fully engaged into the rear axle bracket.
3. Connect the left park brake cable eye (2) to the park brake actuator lever.

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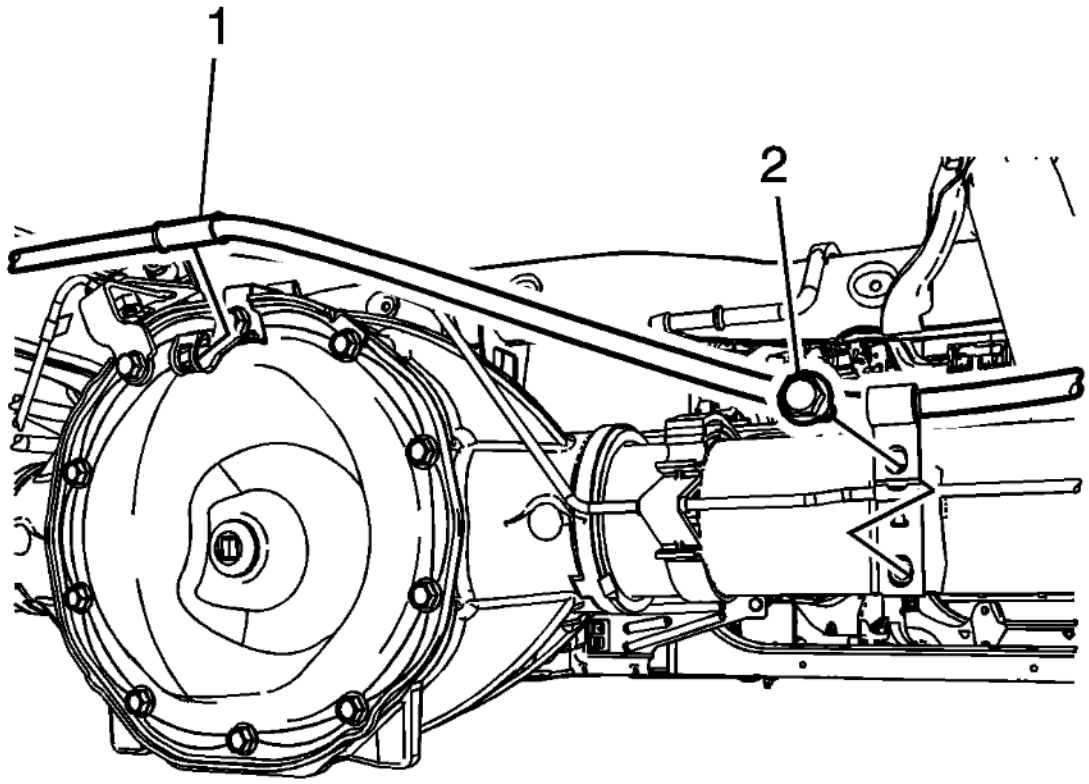


Fig. 82: Park Brake Cable Mounting
Courtesy of GENERAL MOTORS COMPANY

4. Install the right rear parking brake cable (1) to the rear axle housing cover clip.

CAUTION: Refer to Fastener Caution .

5. Install the rear parking brake cable clip bolt (2) and tighten to 22 (16 lb ft).
6. Install the right rear parking brake cable to the cable guides on the frame rail.
7. Install the right rear parking brake cable to the frame bracket.
8. Ensure the locking tabs on the cable conduit are fully engaged into the frame bracket.

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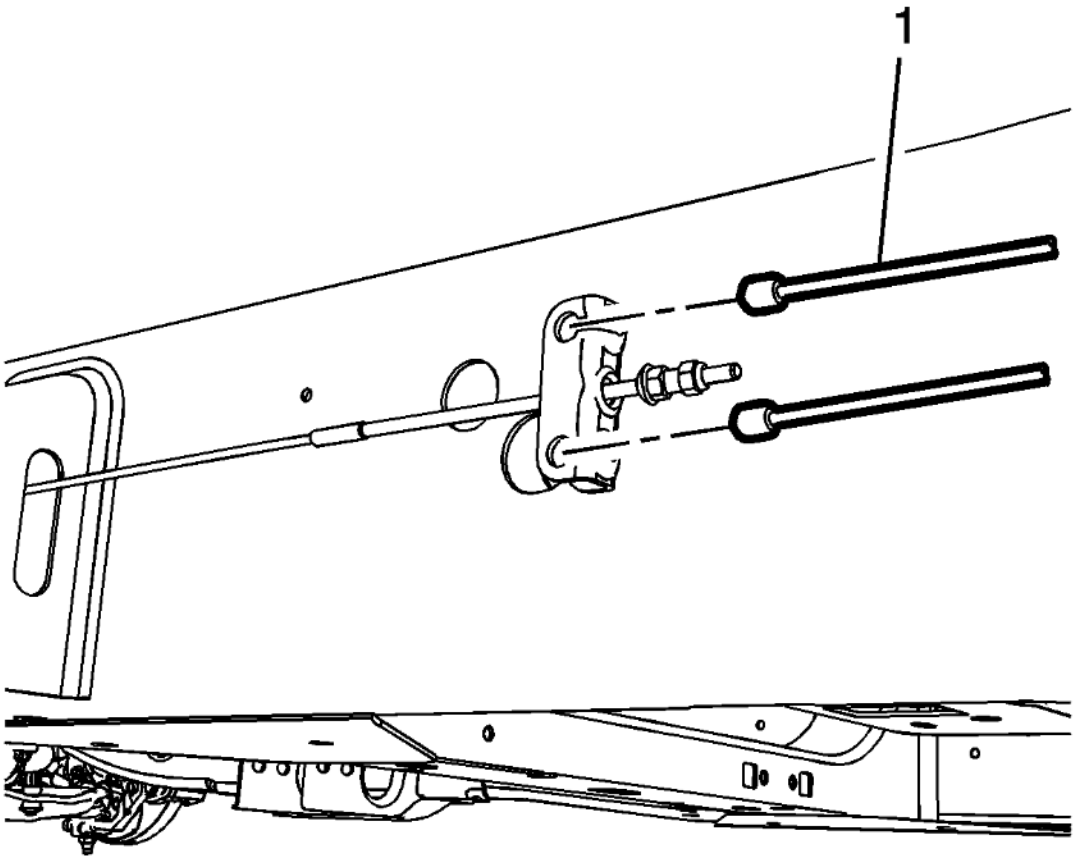


Fig. 83: Right Rear Park Brake Cable
Courtesy of GENERAL MOTORS COMPANY

9. Connect the right rear parking brake cable (1) to the equalizer.
10. Adjust the park brake. Refer to **Parking Brake Adjustment**.
11. Enable the parking brake cable adjuster. Refer to **Parking Brake Cable Adjuster Enabling**.

REAR PARKING BRAKE SHOE ADJUSTER REPLACEMENT (JD9)

Removal Procedure

WARNING: Refer to Brake Dust Warning .

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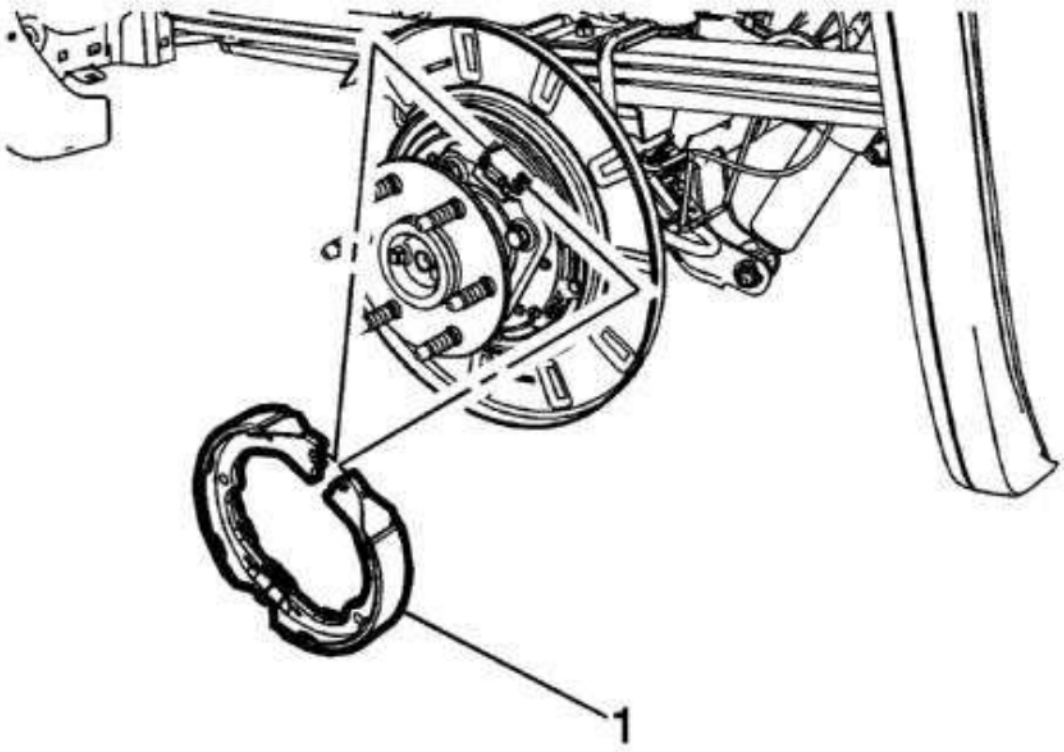


Fig. 84: Park Brake Shoes
Courtesy of GENERAL MOTORS COMPANY

1. Remove the parking brake shoes (1). Refer to **Parking Brake Shoe Replacement (JD9)**.

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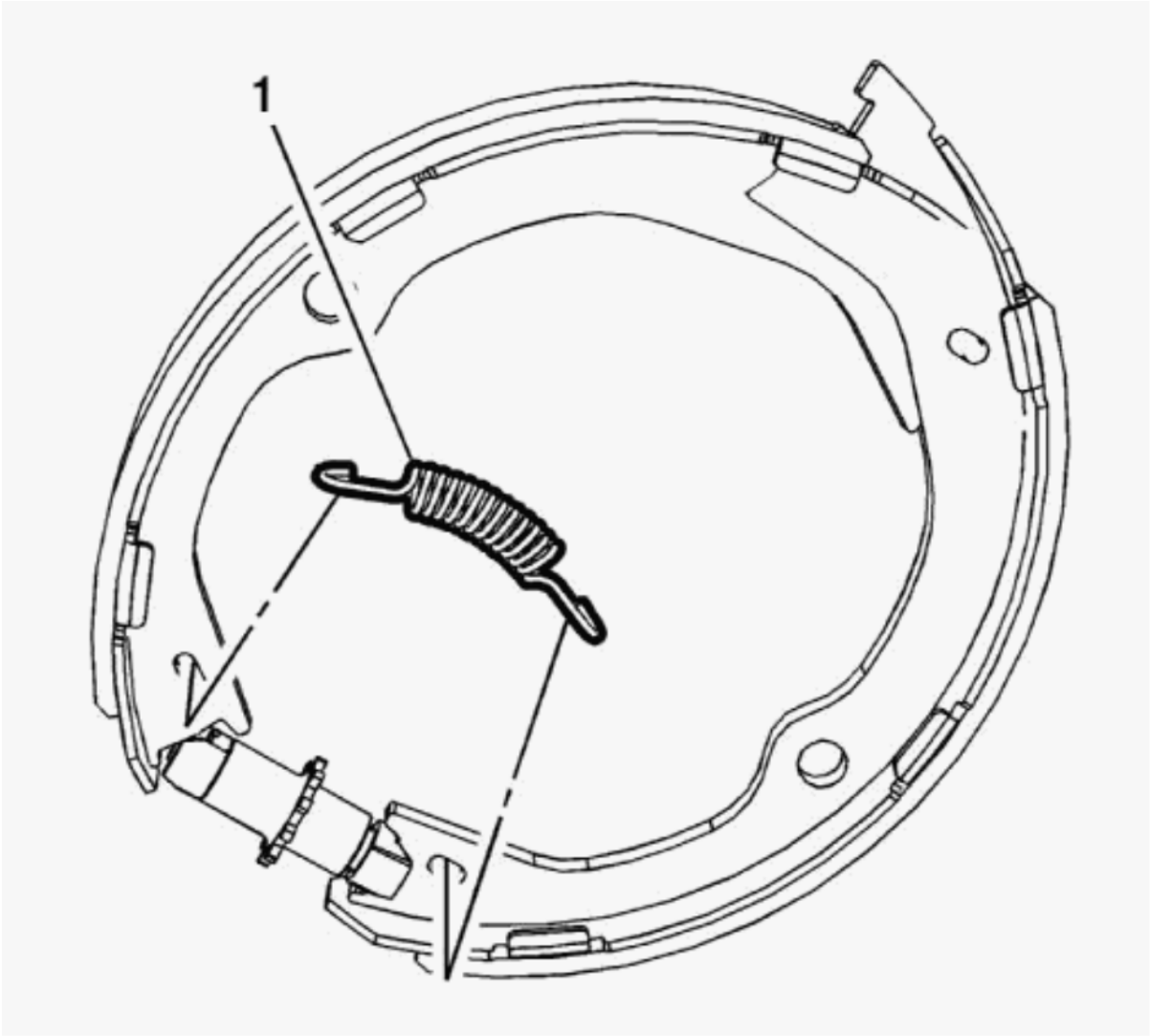


Fig. 85: Park Brake Shoe Lower Return Spring
Courtesy of GENERAL MOTORS COMPANY

2. Cross the top of one of the parking brake shoes over the opposite parking brake shoe.
3. Remove the parking brake shoe lower return spring (1).

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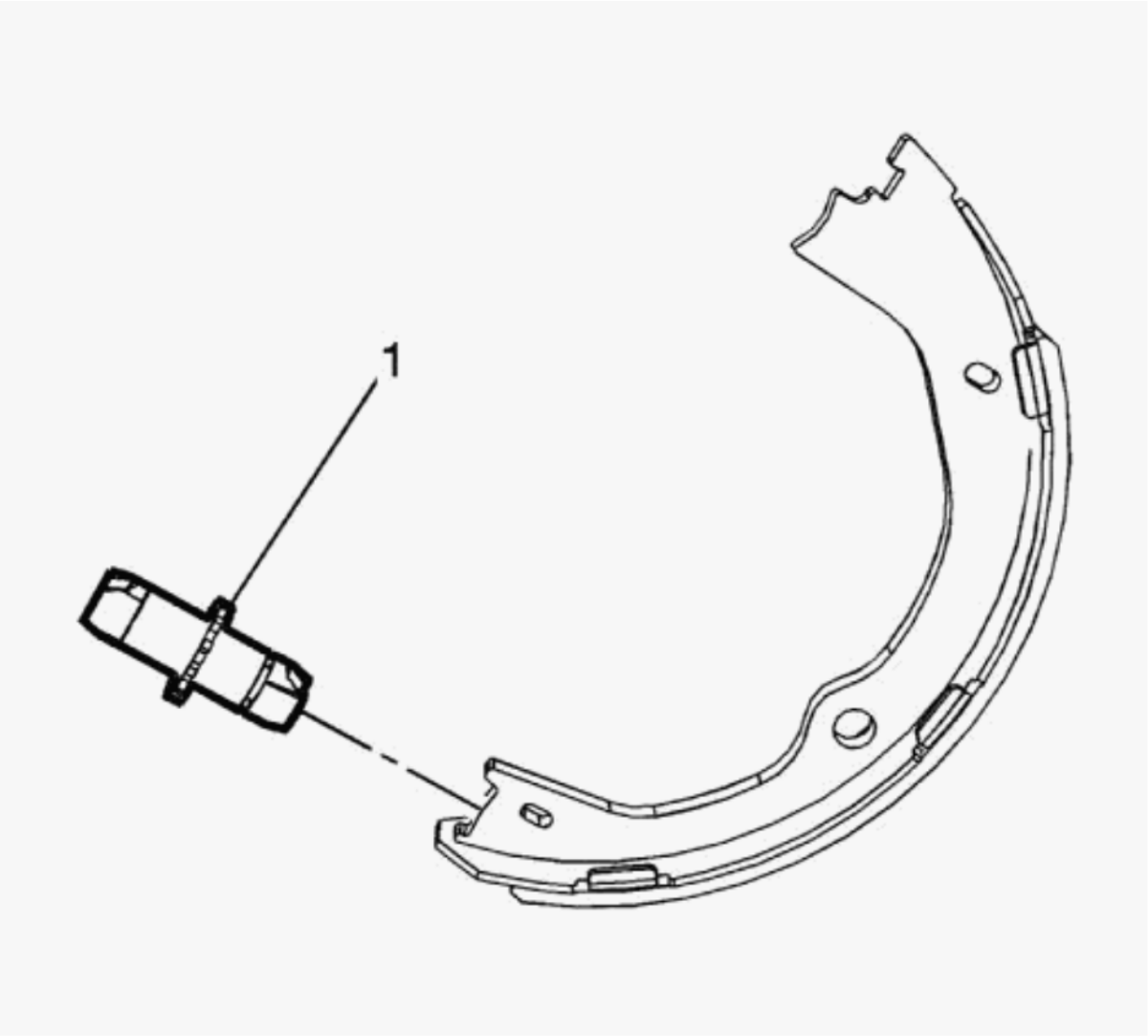


Fig. 86: Park Brake Shoe Adjuster
Courtesy of GENERAL MOTORS COMPANY

4. Remove the parking brake shoe adjuster (1).
5. Disassemble and clean the parking brake shoe adjuster assembly threads.
6. Apply high temperature brake lubricant to the threads of the parking brake shoe adjuster.

Installation Procedure

1. Assemble the parking brake shoe adjuster.
2. Rotate the parking brake shoe adjuster to the fully retracted position.

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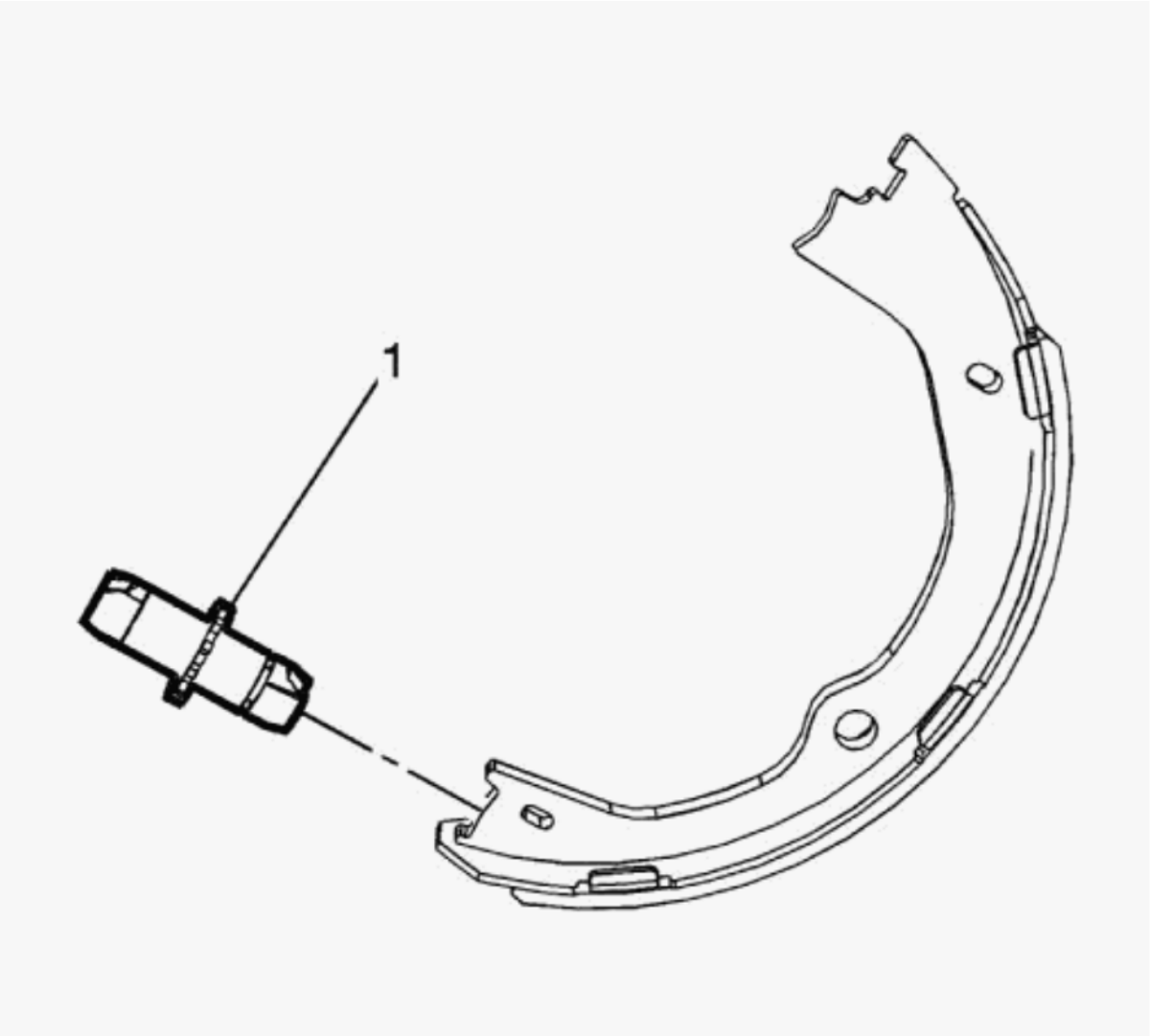


Fig. 87: Park Brake Shoe Adjuster
Courtesy of GENERAL MOTORS COMPANY

3. Install the parking brake shoe adjuster (1) to the parking brake shoes.

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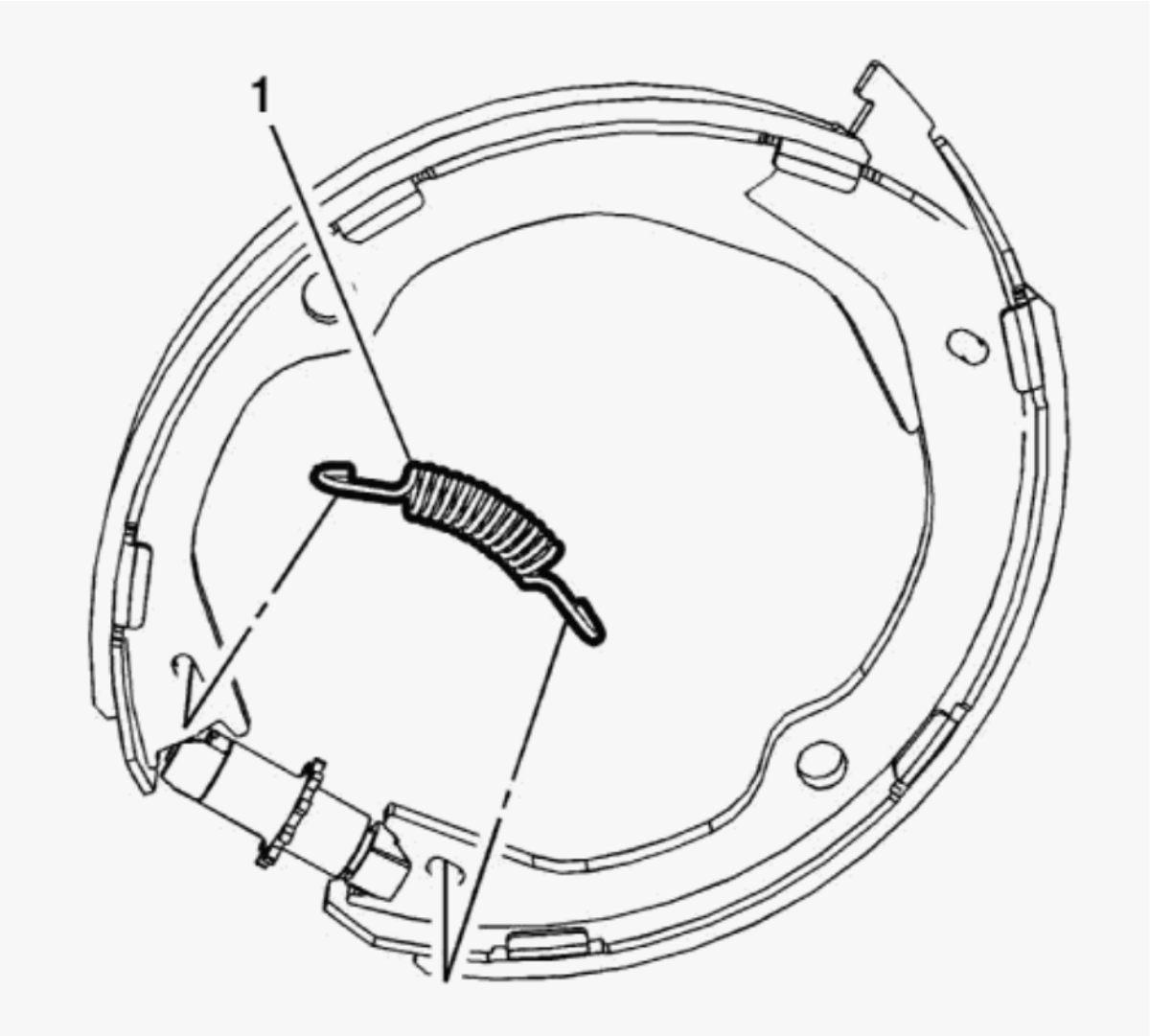


Fig. 88: Park Brake Shoe Lower Return Spring
Courtesy of GENERAL MOTORS COMPANY

4. Cross the top of one of the park brake shoe over the opposite park brake shoe.
5. Install the parking brake shoe return spring (1).

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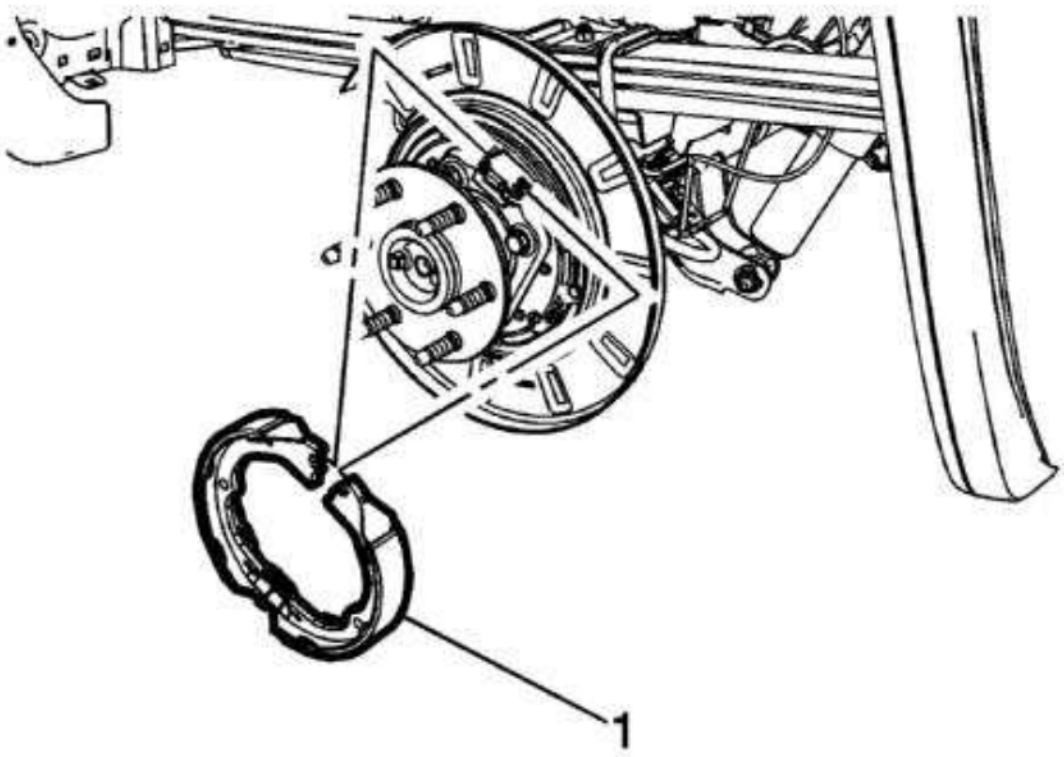


Fig. 89: Park Brake Shoes
Courtesy of GENERAL MOTORS COMPANY

6. Install the parking brake shoes (1). Refer to **Parking Brake Shoe Replacement (JD9)**.

REAR PARKING BRAKE SHOE ADJUSTER REPLACEMENT (J95, J96)

Removal Procedure

WARNING: Refer to **Brake Dust Warning** .

NOTE: Left side parking brake shoe assembly shown. Right side parking brake shoe assembly is inverted.

1. Release the park brake.
2. Raise and support the vehicle. Refer to **Lifting and Jacking the Vehicle** .
3. Remove the tire and wheel assembly. Refer to **Tire and Wheel Removal and Installation (6-Lug Wheel)** **Tire and Wheel Removal and Installation (8-Lug Wheel)** **Tire and Wheel Removal and Installation (Dual Rear Wheels)** .

NOTE: If equipped with RPO J96, it is not necessary to separate the rear brake

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rotor from the wheel hub.

4. Remove the rear brake rotor. Refer to **Rear Brake Rotor Replacement (J95)** **Rear Brake Rotor Replacement (J96)** .

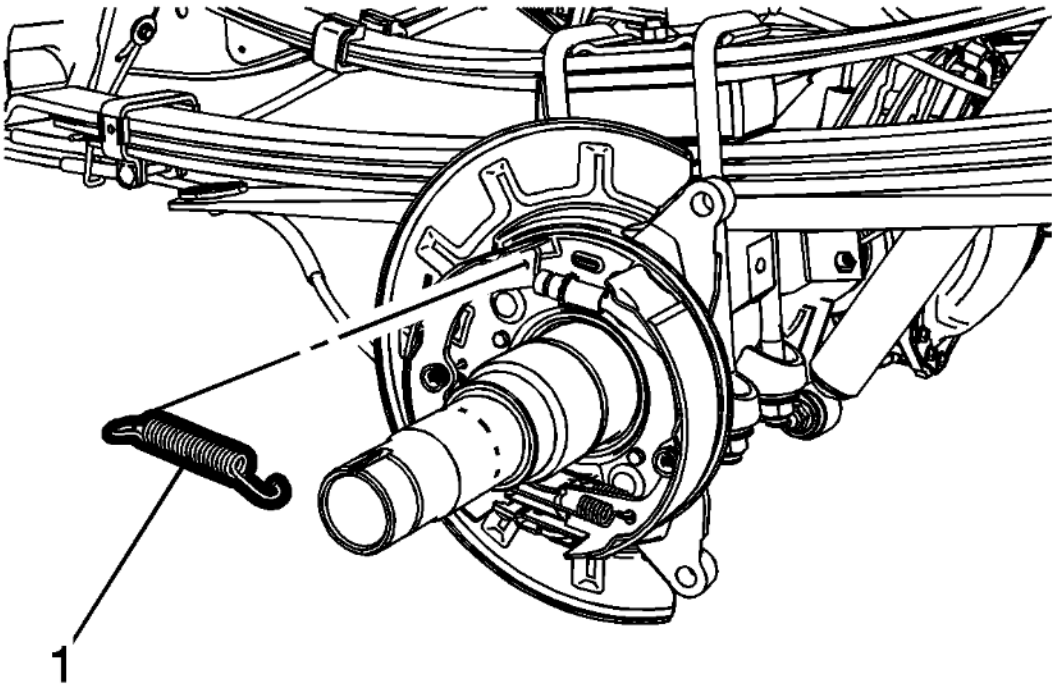


Fig. 90: Parking Brake Shoe Adjuster Spring
Courtesy of GENERAL MOTORS COMPANY

5. Remove the parking brake shoe adjuster spring (1).

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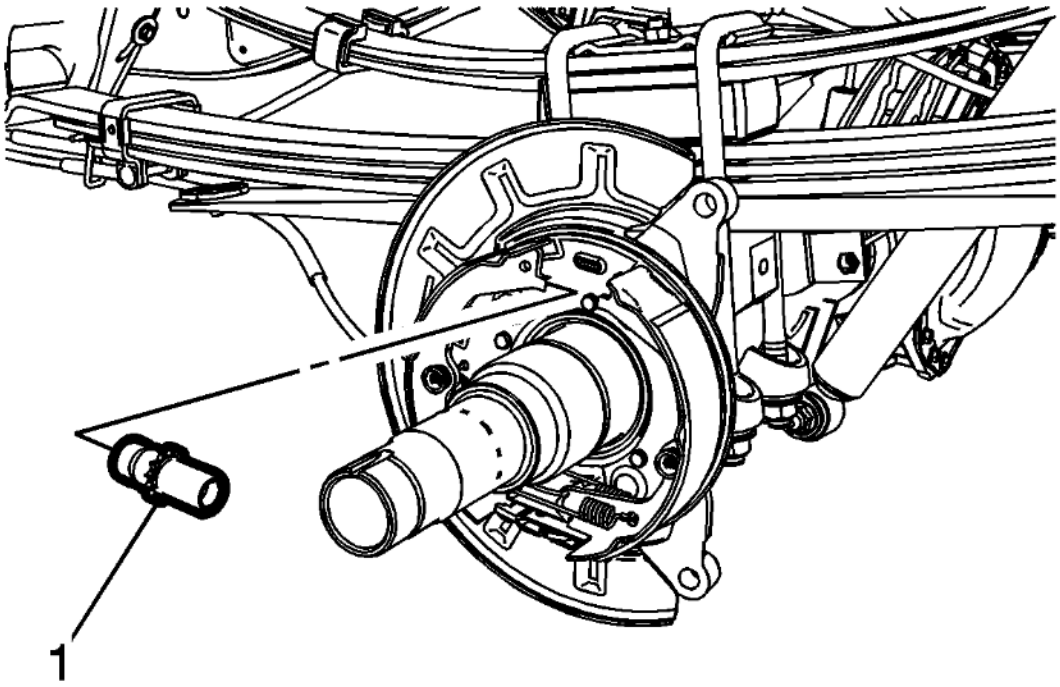


Fig. 91: Parking Brake Shoe Adjuster
Courtesy of GENERAL MOTORS COMPANY

6. Remove the parking brake shoe adjuster (1).
7. Disassemble and clean the parking brake shoe adjuster assembly threads.
8. Apply high temperature brake lubricant to the threads of the parking brake shoe adjuster.

Installation Procedure

1. Assemble the parking brake shoe adjuster.
2. Rotate the parking brake shoe adjuster to the fully retracted position.

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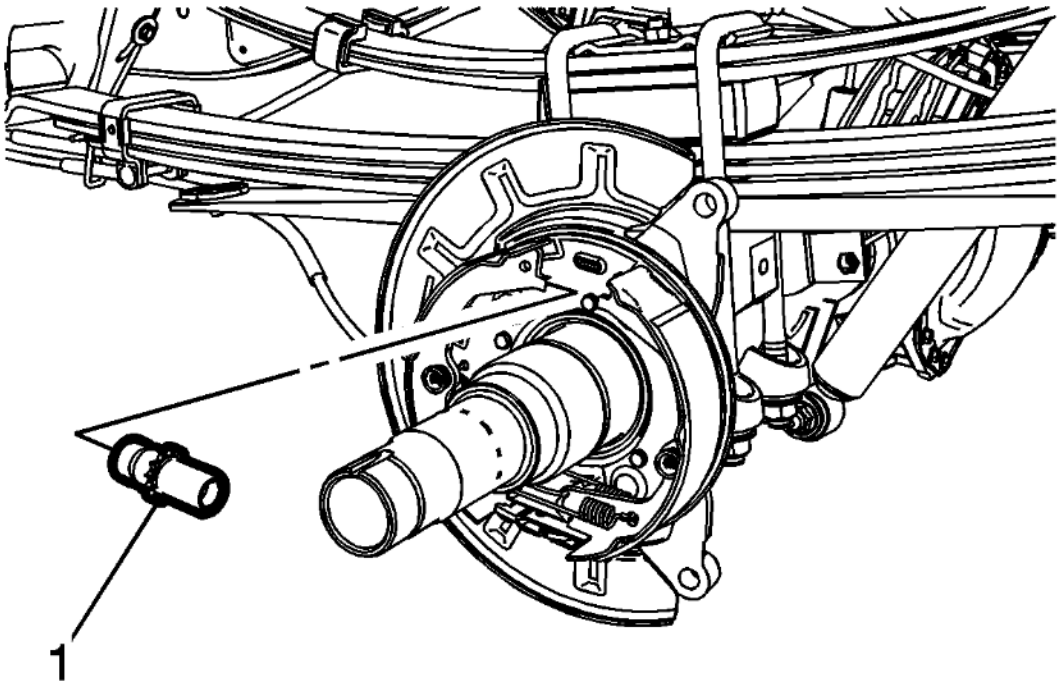


Fig. 92: Parking Brake Shoe Adjuster
Courtesy of GENERAL MOTORS COMPANY

3. Install the parking brake shoe adjuster (1) to the parking brake shoes.

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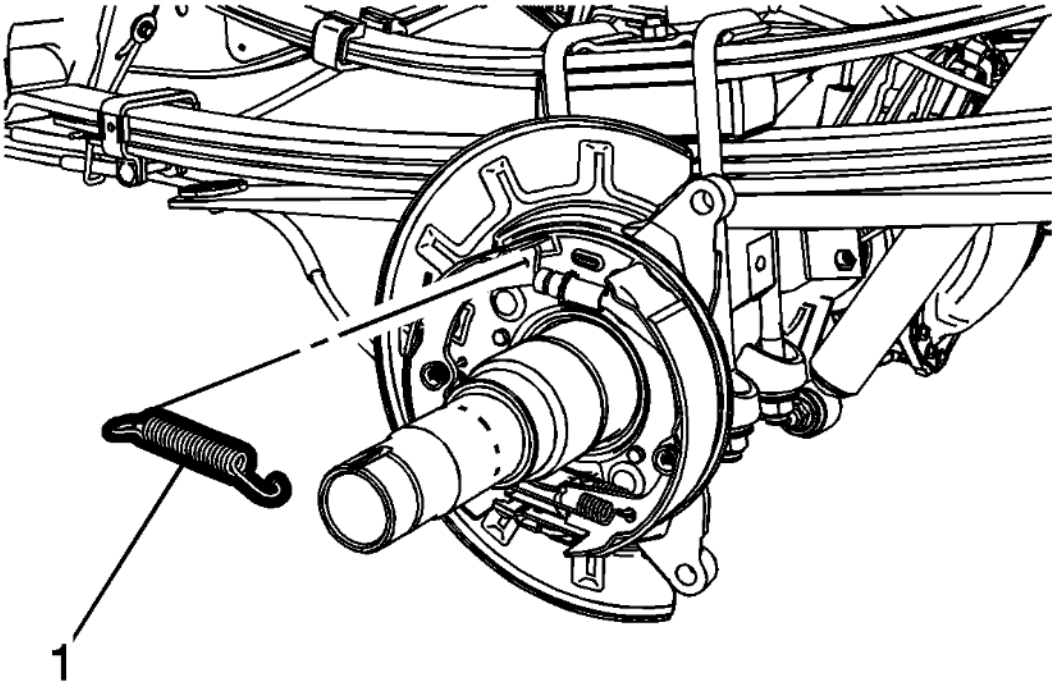


Fig. 93: Parking Brake Shoe Adjuster Spring
Courtesy of GENERAL MOTORS COMPANY

4. Install the parking brake shoe adjuster spring (1).
5. Adjust the parking brake. Refer to **Parking Brake Adjustment**.
6. Install the rear brake rotor. Refer to **Rear Brake Rotor Replacement (J95)** **Rear Brake Rotor Replacement (J96)** .
7. Install the tire and wheel assembly. Refer to **Tire and Wheel Removal and Installation (6-Lug Wheel)** **Tire and Wheel Removal and Installation (8-Lug Wheel)** **Tire and Wheel Removal and Installation (Dual Rear Wheels)** .

PARKING BRAKE CABLE ADJUSTER DISABLING

Before any components of the parking brake system are serviced, the following procedure must be followed. Two technicians are required to perform this procedure, one inside the vehicle and one outside the vehicle.

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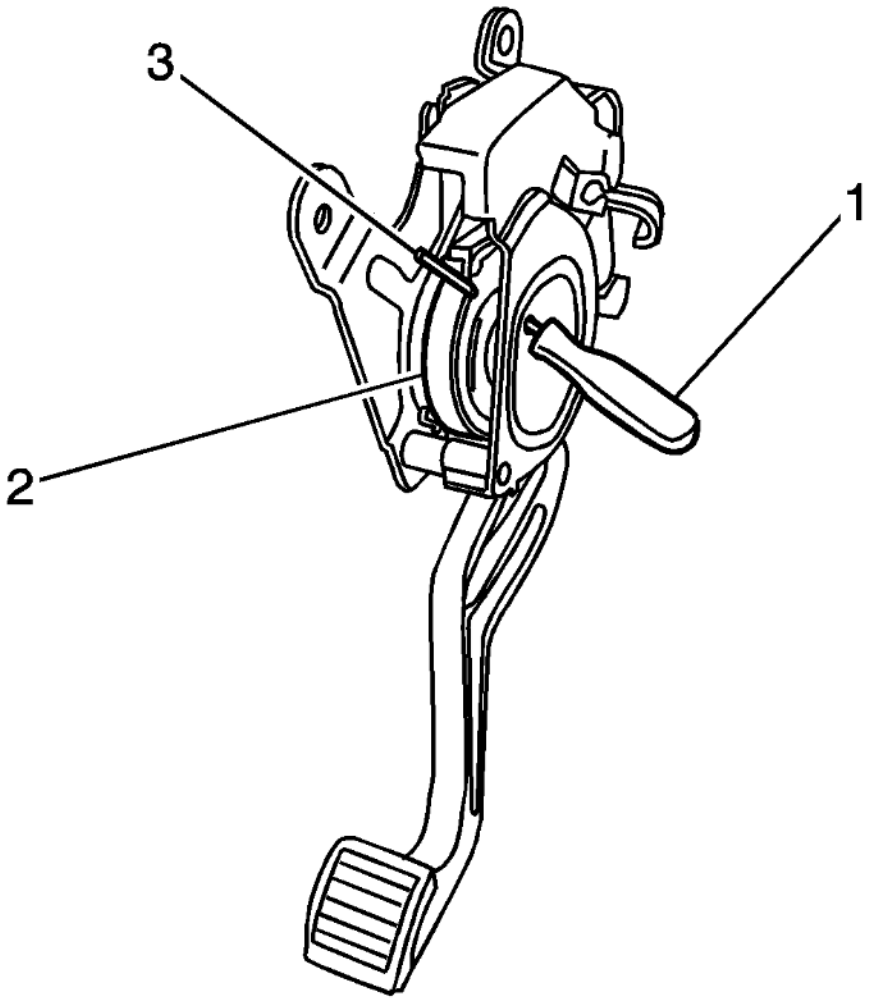


Fig. 94: Screwdriver, Pedal Drum & Pedal Assembly
Courtesy of GENERAL MOTORS COMPANY

1. Raise and support the vehicle. Refer to **Lifting and Jacking the Vehicle** .
2. Hold the pedal in the FULL upward position.
3. Pull rearward on the front park brake cable until the pedal drum (2) reaches its full reset position.
4. Insert a thin tool (1) on an upward angle through the hole in the front of the pedal assembly, past the retracted pedal drum, and into the hole in the back of the pedal assembly (3).
5. Slowly release the cable.
6. Remove the component that requires service.

PARKING BRAKE CABLE ADJUSTER ENABLING

1. Hold the park brake pedal in the FULL upward position.

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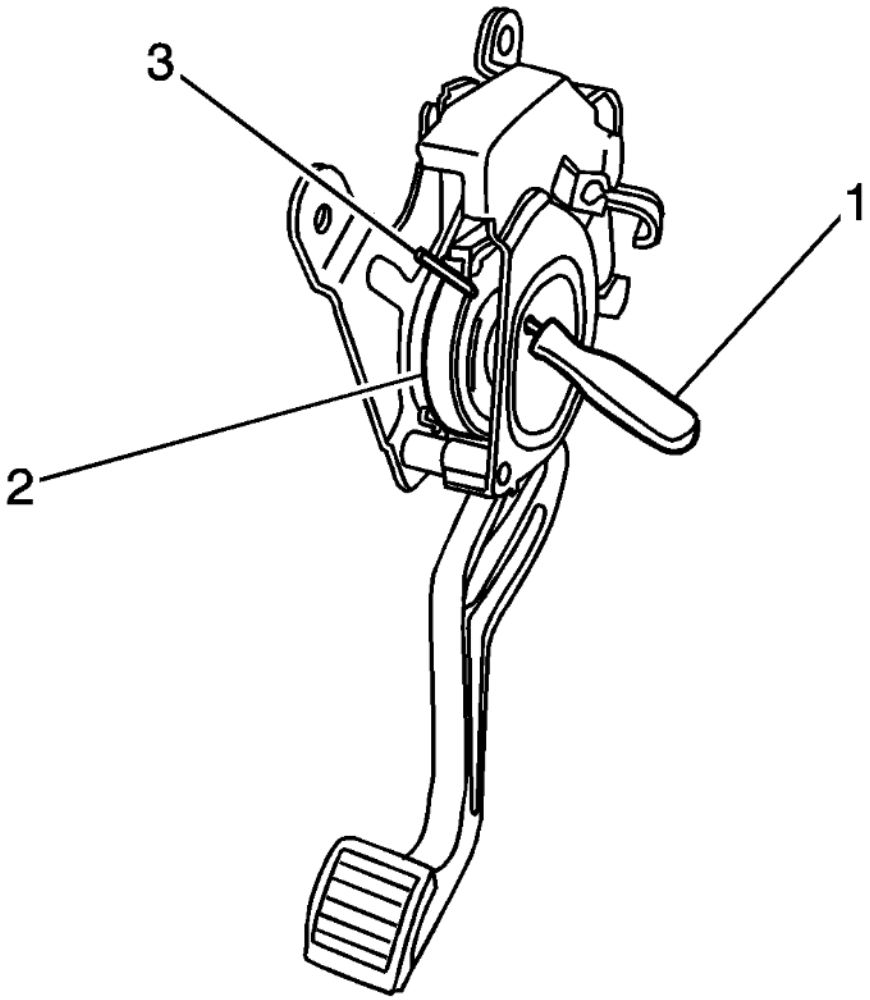


Fig. 95: Screwdriver, Pedal Drum & Pedal Assembly
Courtesy of GENERAL MOTORS COMPANY

2. Pull rearward on the front park brake cable until the tension is released from the tool (1) installed in the pedal assembly.
3. Remove the tool (1).
4. Slowly release the park brake cable until it returns to its original position.
5. Release the park brake pedal.
6. Lower the vehicle.
7. Apply and release the park brake pedal 3 times.

REAR PARKING BRAKE ACTUATOR LEVER REPLACEMENT (J95, J96)

Removal Procedure

WARNING: Refer to Brake Dust Warning .

1. Raise and support the vehicle. Refer to **Lifting and Jacking the Vehicle** .
2. Remove the tire and wheel assembly. Refer to **Tire and Wheel Removal and Installation (6-Lug Wheel)** **Tire and Wheel Removal and Installation (8-Lug Wheel)** **Tire and Wheel Removal and**

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Installation (Dual Rear Wheels) .

3. Remove the parking brake shoes. Refer to **Parking Brake Shoe Replacement (J95, J96)**.

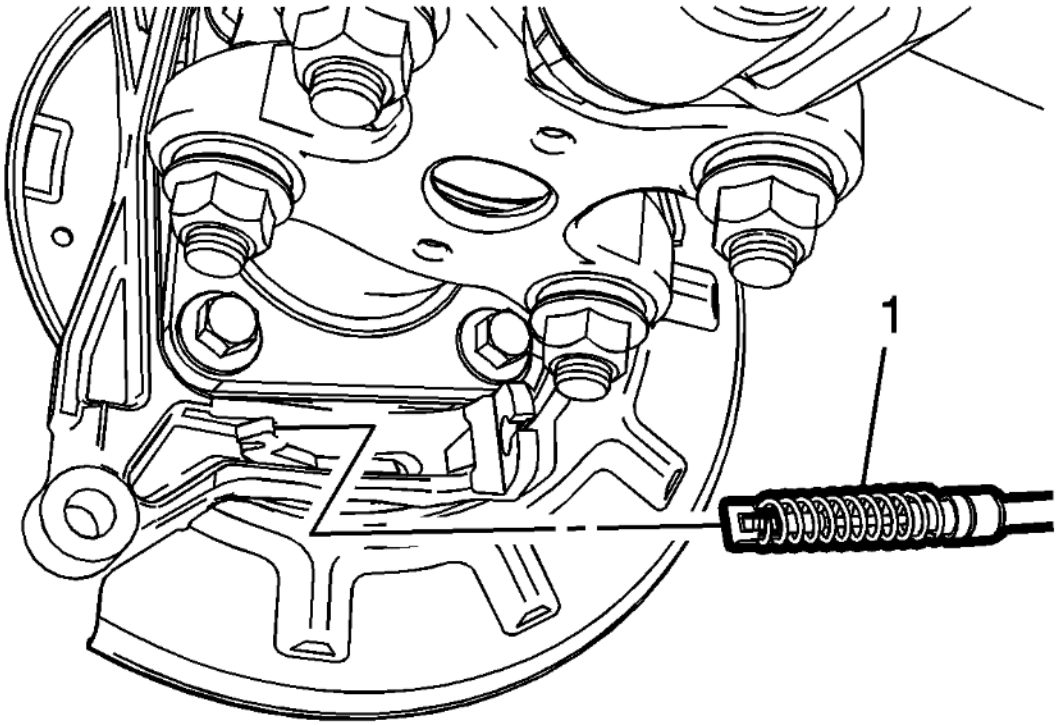


Fig. 96: Parking Brake Cable Eye
Courtesy of GENERAL MOTORS COMPANY

4. Disconnect the parking brake cable eye (1) from the parking brake actuator lever.

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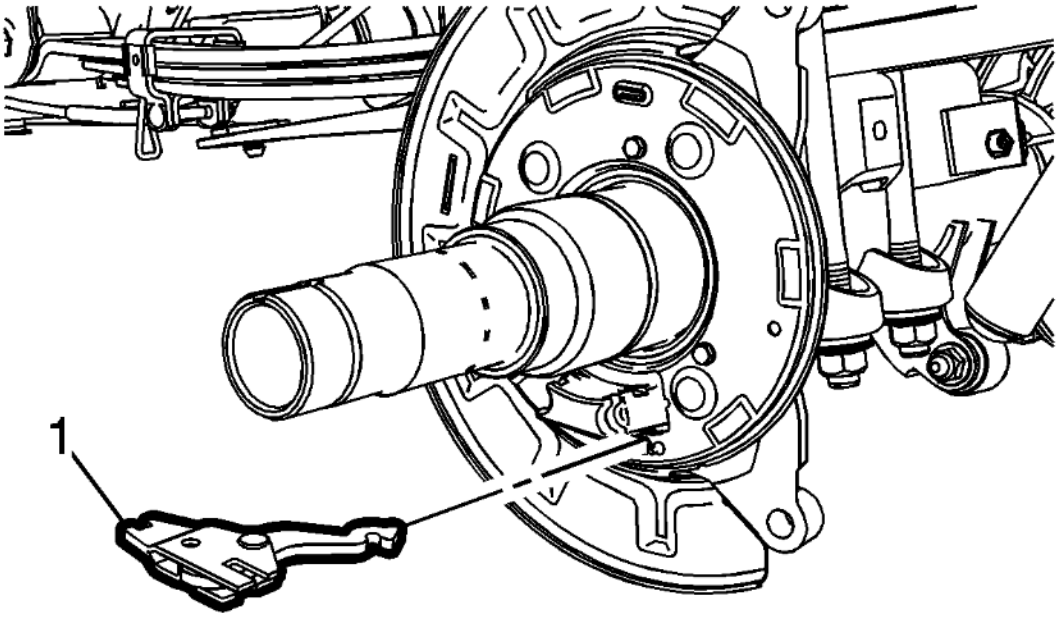


Fig. 97: Parking Brake Actuator
Courtesy of GENERAL MOTORS COMPANY

5. Remove the parking brake actuator (1).

Installation Procedure

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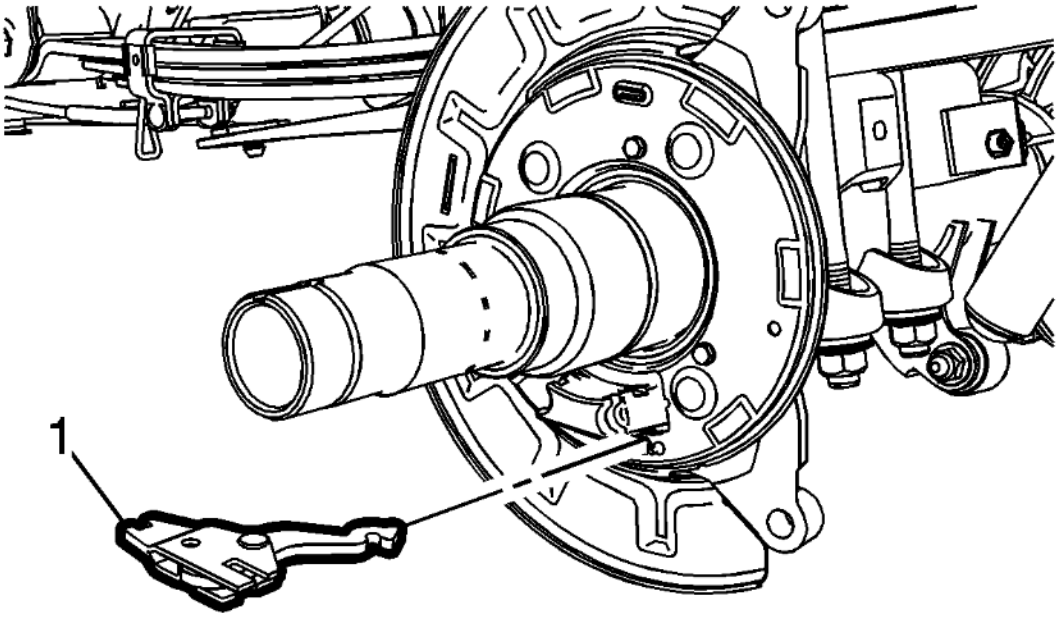


Fig. 98: Parking Brake Actuator
Courtesy of GENERAL MOTORS COMPANY

1. Install the parking brake actuator (1).

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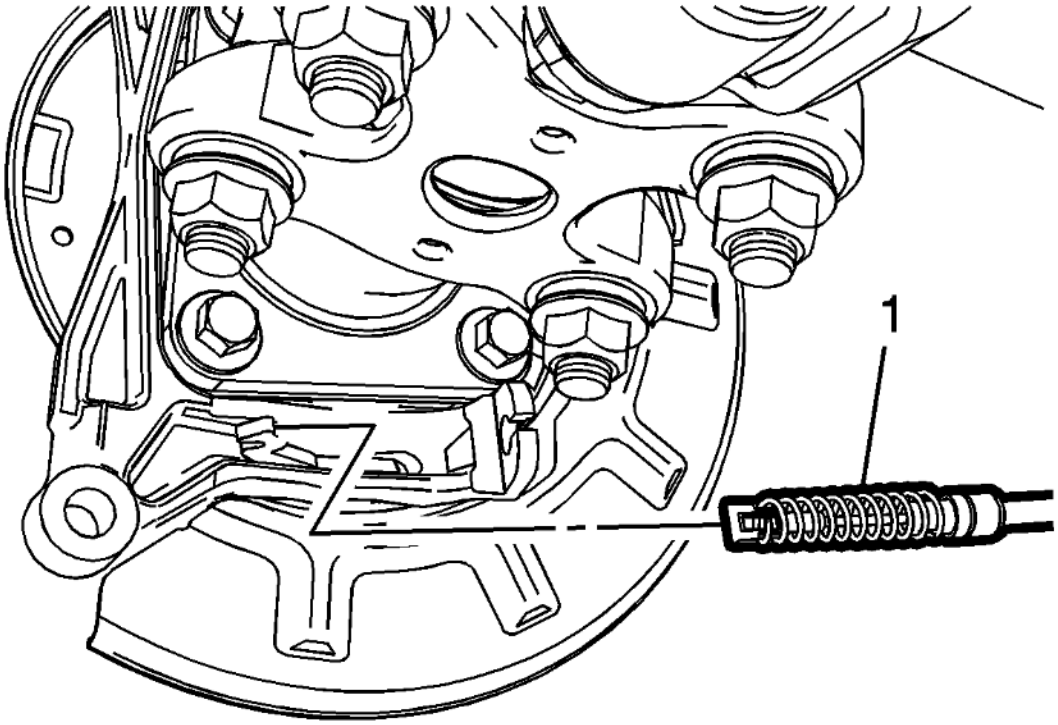


Fig. 99: Parking Brake Cable Eye
Courtesy of GENERAL MOTORS COMPANY

2. Connect the parking brake cable eye (1) to the parking brake actuator lever.
3. Install the parking brake shoes. Refer to **Parking Brake Shoe Replacement (J95, J96)**.
4. Install the tire and wheel assembly. Refer to **Tire and Wheel Removal and Installation (6-Lug Wheel)** **Tire and Wheel Removal and Installation (8-Lug Wheel)** **Tire and Wheel Removal and Installation (Dual Rear Wheels)** .

REAR PARKING BRAKE ACTUATOR LEVER REPLACEMENT (JD9)

Removal Procedure

WARNING: Refer to Brake Dust Warning .

1. Disable the parking brake cable adjuster. Refer to **Parking Brake Cable Adjuster Disabling**
2. Raise and support the vehicle. Refer to **Lifting and Jacking the Vehicle** .
3. Remove the tire and wheel assembly. Refer to **Tire and Wheel Removal and Installation (6-Lug Wheel)** **Tire and Wheel Removal and Installation (8-Lug Wheel)** **Tire and Wheel Removal and Installation (Dual Rear Wheels)** .

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4. Remove the parking brake shoes. Refer to **Parking Brake Shoe Replacement (JD9)**.

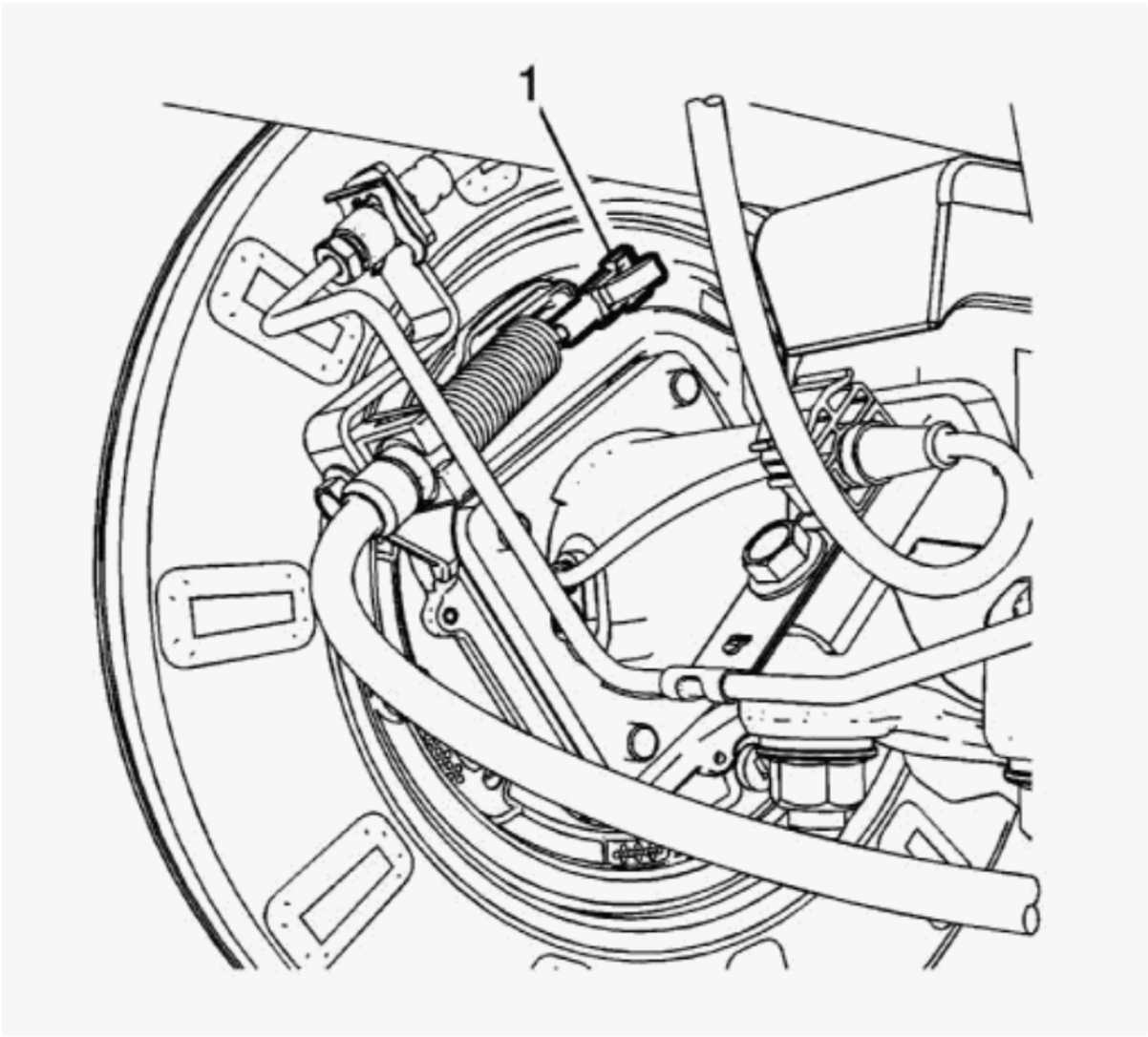


Fig. 100: Rear Parking Brake Cable Eye And Parking Brake Actuator Lever
Courtesy of GENERAL MOTORS COMPANY

5. Disconnect the rear parking brake cable eye (1) from the parking brake actuator lever.

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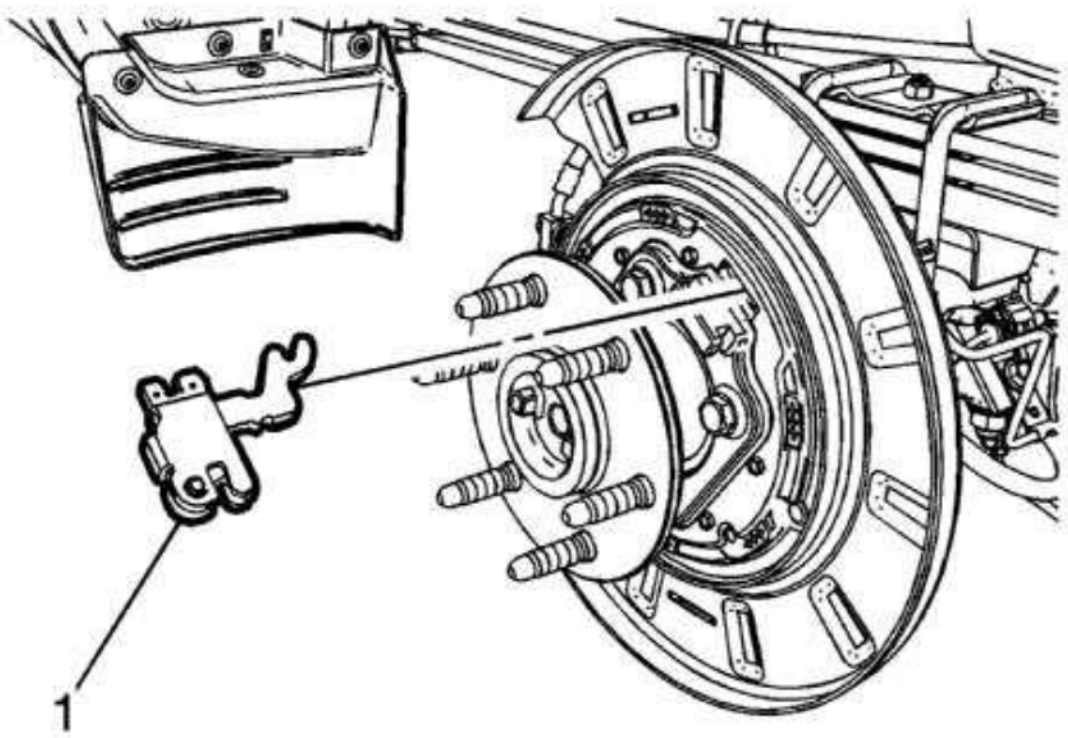


Fig. 101: Parking Brake Actuator Lever
Courtesy of GENERAL MOTORS COMPANY

6. Remove the parking brake actuator lever (1).

Installation Procedure

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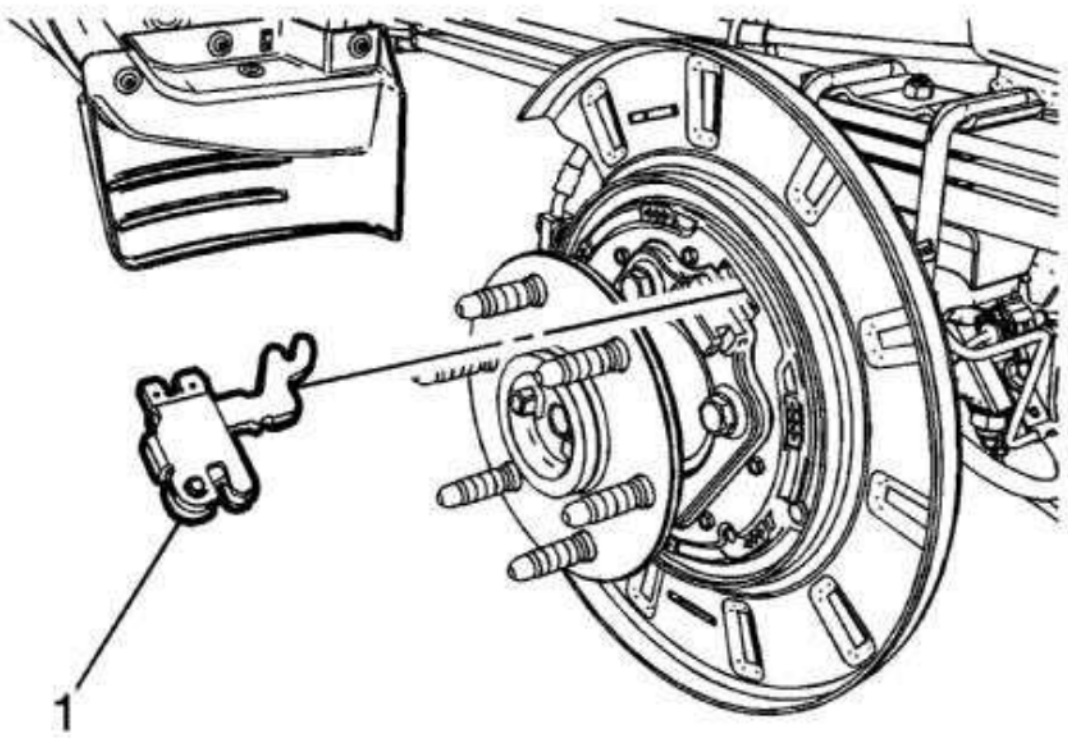


Fig. 102: Parking Brake Actuator Lever
Courtesy of GENERAL MOTORS COMPANY

1. Install the parking brake actuator lever (1).

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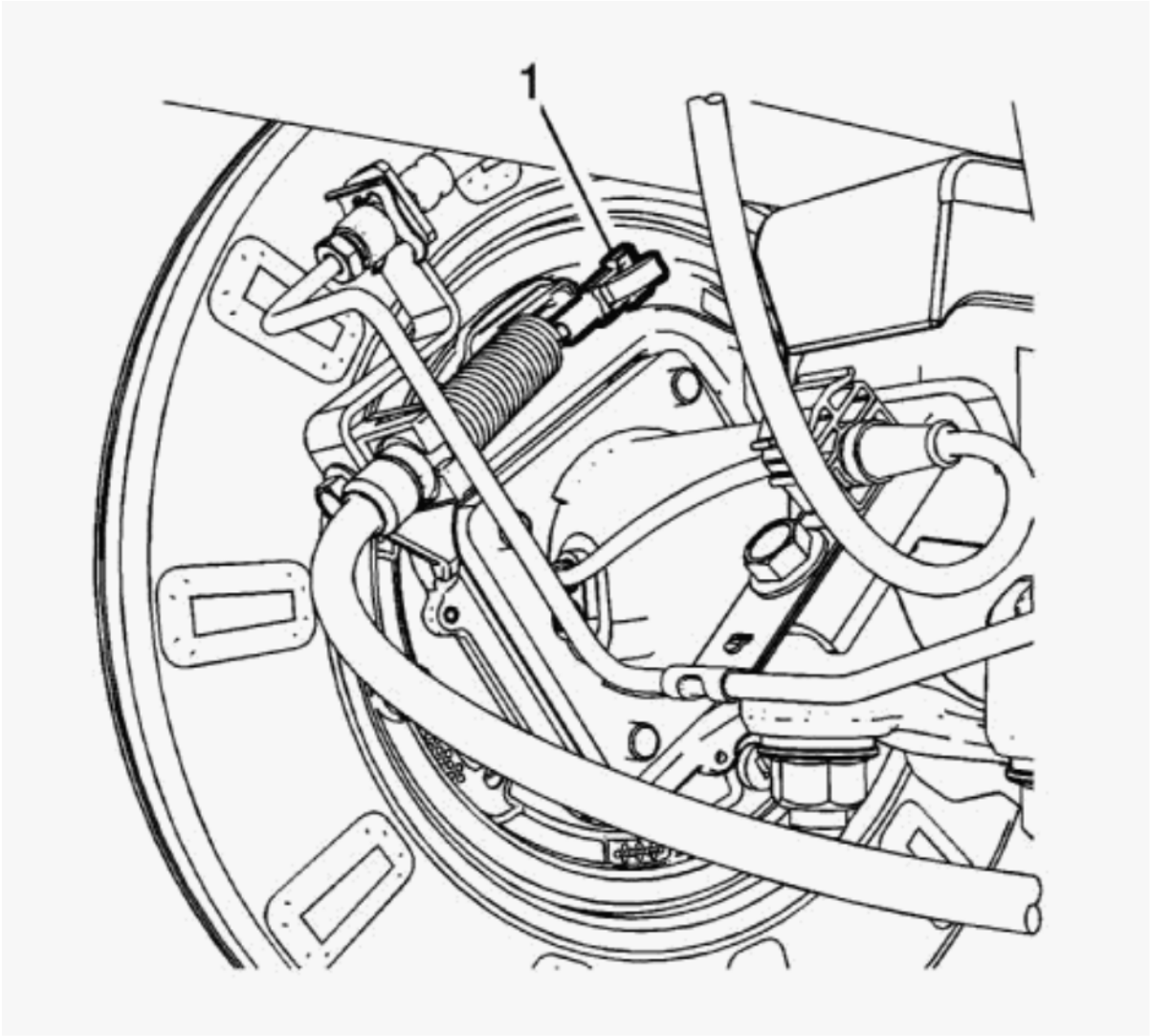


Fig. 103: Rear Parking Brake Cable Eye And Parking Brake Actuator Lever
Courtesy of GENERAL MOTORS COMPANY

2. Connect the rear parking brake cable eye (1) to the parking brake actuator lever.
3. Install the parking brake shoes. Refer to **Parking Brake Shoe Replacement (JD9)**.
4. Install the tire and wheel assembly. Refer to **Tire and Wheel Removal and Installation (6-Lug Wheel)** **Tire and Wheel Removal and Installation (8-Lug Wheel)** **Tire and Wheel Removal and Installation (Dual Rear Wheels)** .
5. Enable the parking brake cable adjuster. Refer to **Parking Brake Cable Adjuster Enabling**.

REAR PARKING BRAKE ANCHOR BACKING PLATE REPLACEMENT

Removal Procedure

WARNING: Refer to Brake Dust Warning .

1. Raise and support the vehicle. Refer to **Lifting and Jacking the Vehicle** .
2. Remove the tire and wheel assembly. Refer to **Tire and Wheel Removal and Installation (6-Lug Wheel)** **Tire and Wheel Removal and Installation (8-Lug Wheel)** **Tire and Wheel Removal and Installation (Dual Rear Wheels)** .

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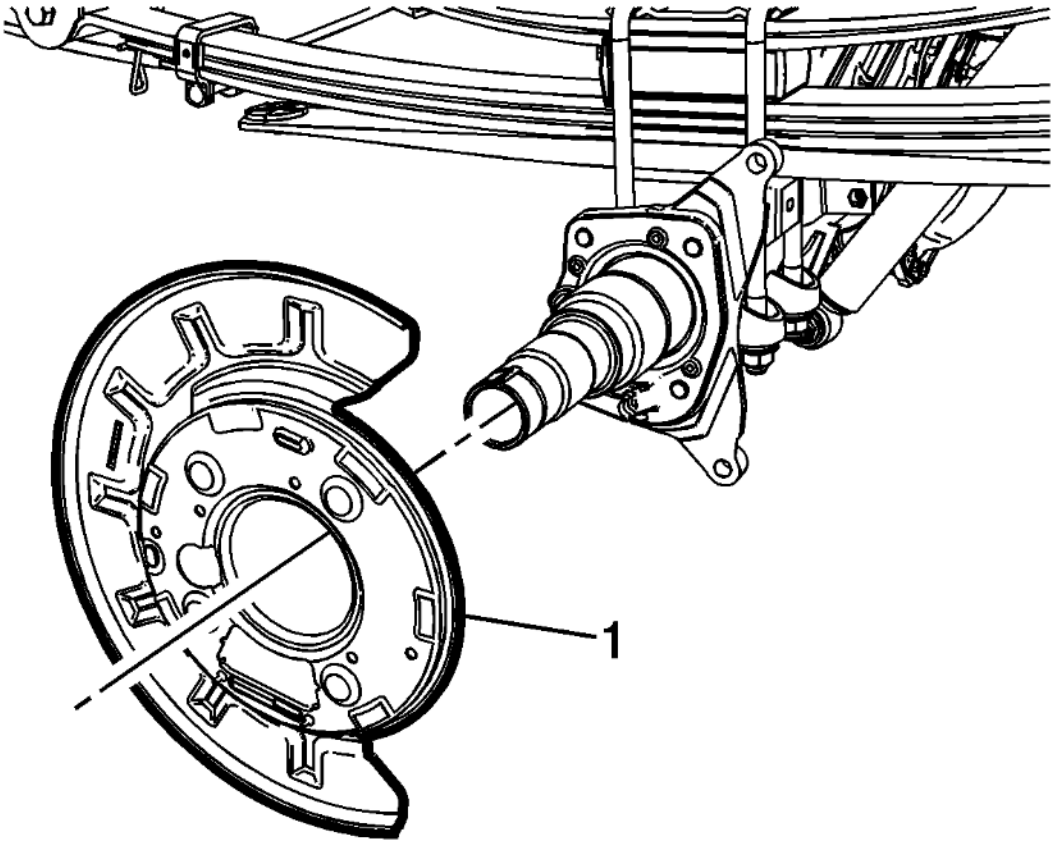


Fig. 104: Rear Brake Backing Plate
Courtesy of GENERAL MOTORS COMPANY

3. Remove the rear brake shield (1). Refer to **Rear Brake Shield Replacement (JD9)** **Rear Brake Shield Replacement (J95, J96)** .

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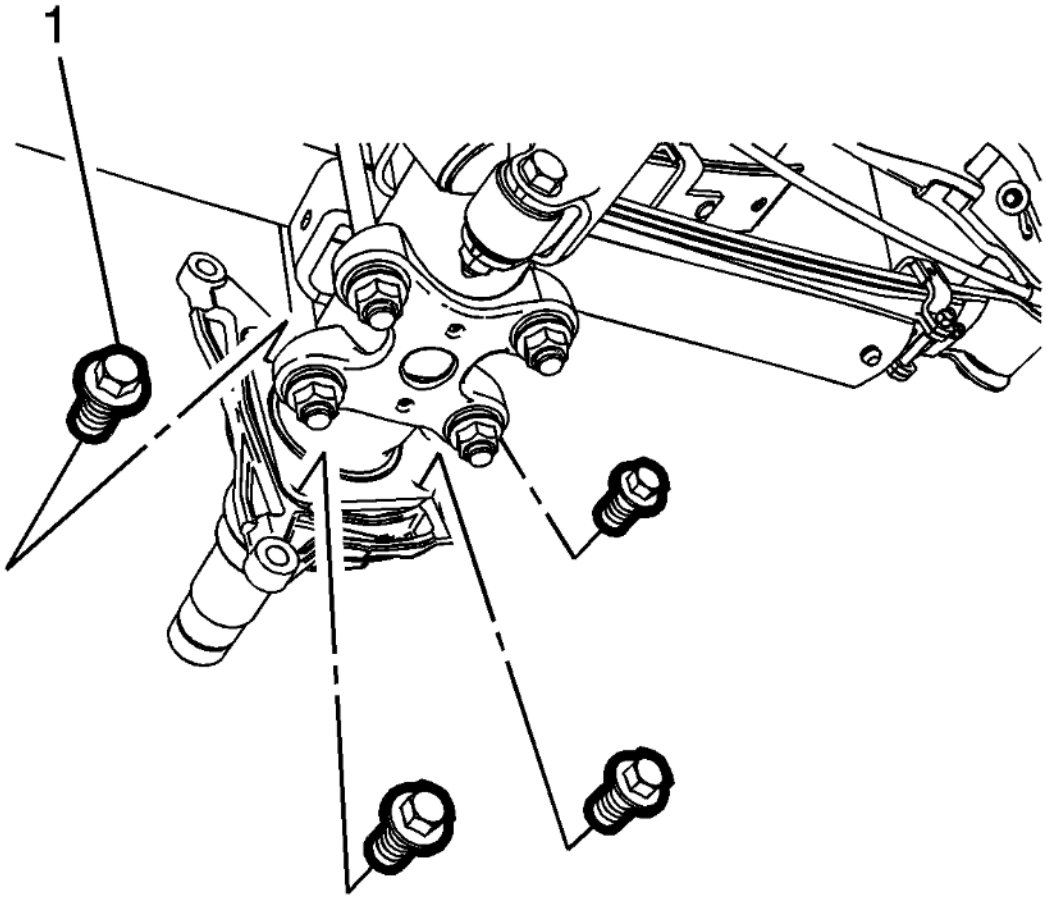


Fig. 105: Parking Brake Anchor Plate Bolts
Courtesy of GENERAL MOTORS COMPANY

4. Remove the parking brake anchor backing plate bolts (1).

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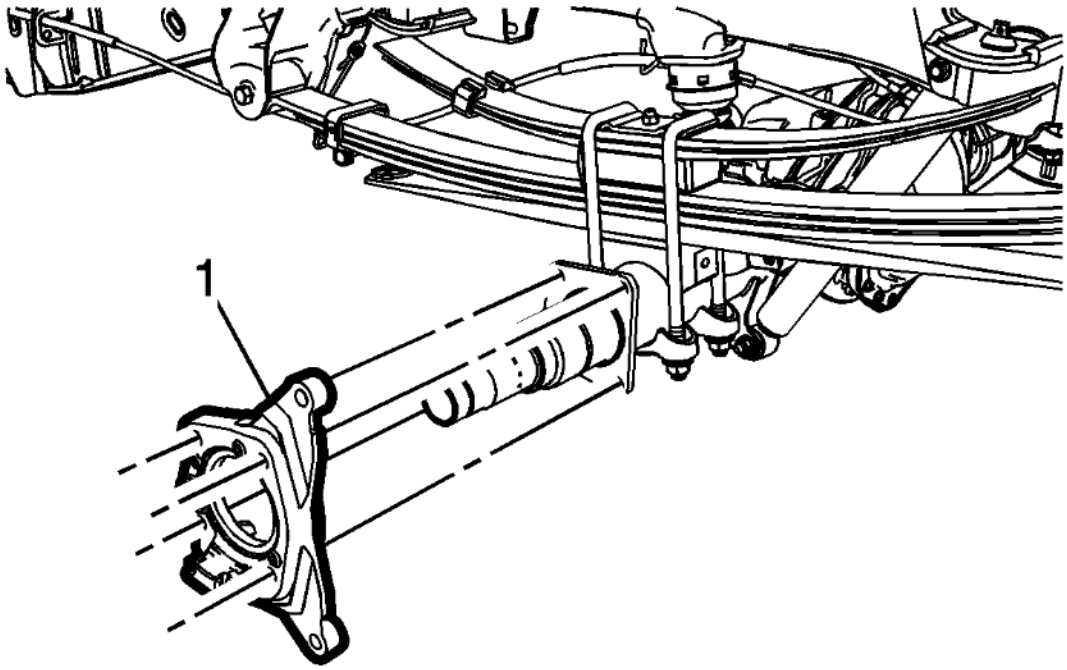


Fig. 106: Parking Brake Anchor Plate
Courtesy of GENERAL MOTORS COMPANY

5. Remove the rear parking brake anchor backing plate (1).

Installation Procedure

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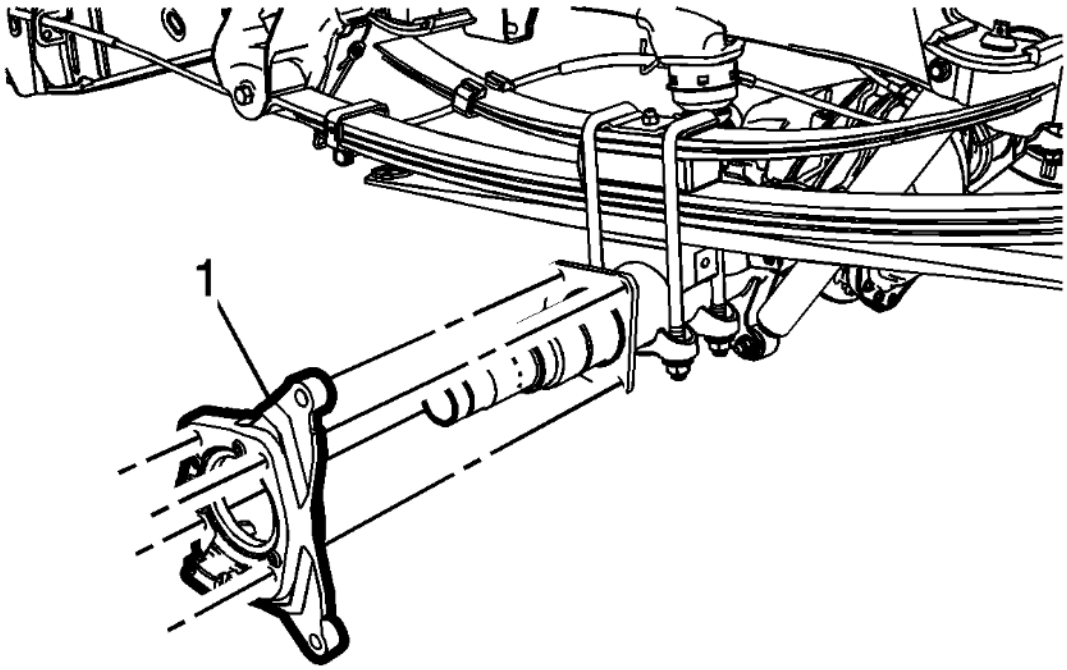


Fig. 107: Parking Brake Anchor Plate
Courtesy of GENERAL MOTORS COMPANY

1. Install the rear parking brake anchor backing plate (1).

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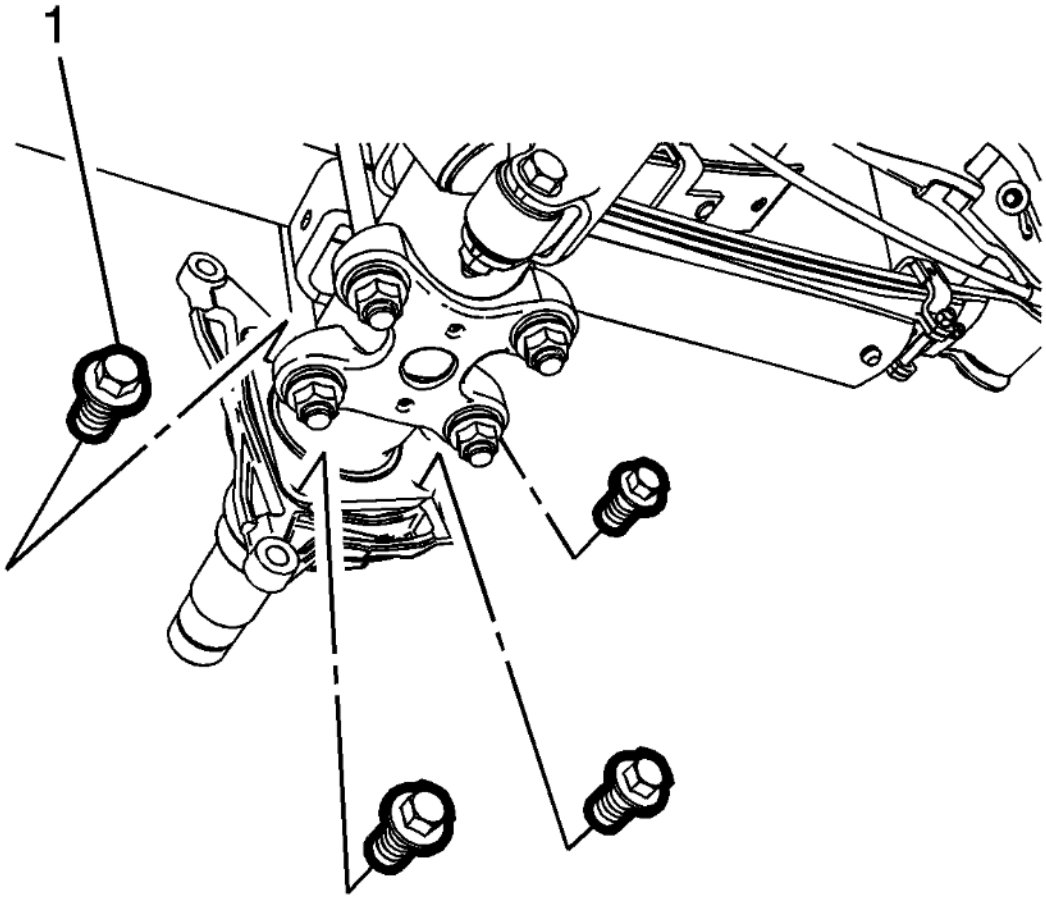


Fig. 108: Parking Brake Anchor Plate Bolts
Courtesy of GENERAL MOTORS COMPANY

CAUTION: **Refer to Fastener Caution .**

2. Install the parking brake anchor backing plate bolts (1) and tighten to 300 (221 lb ft).

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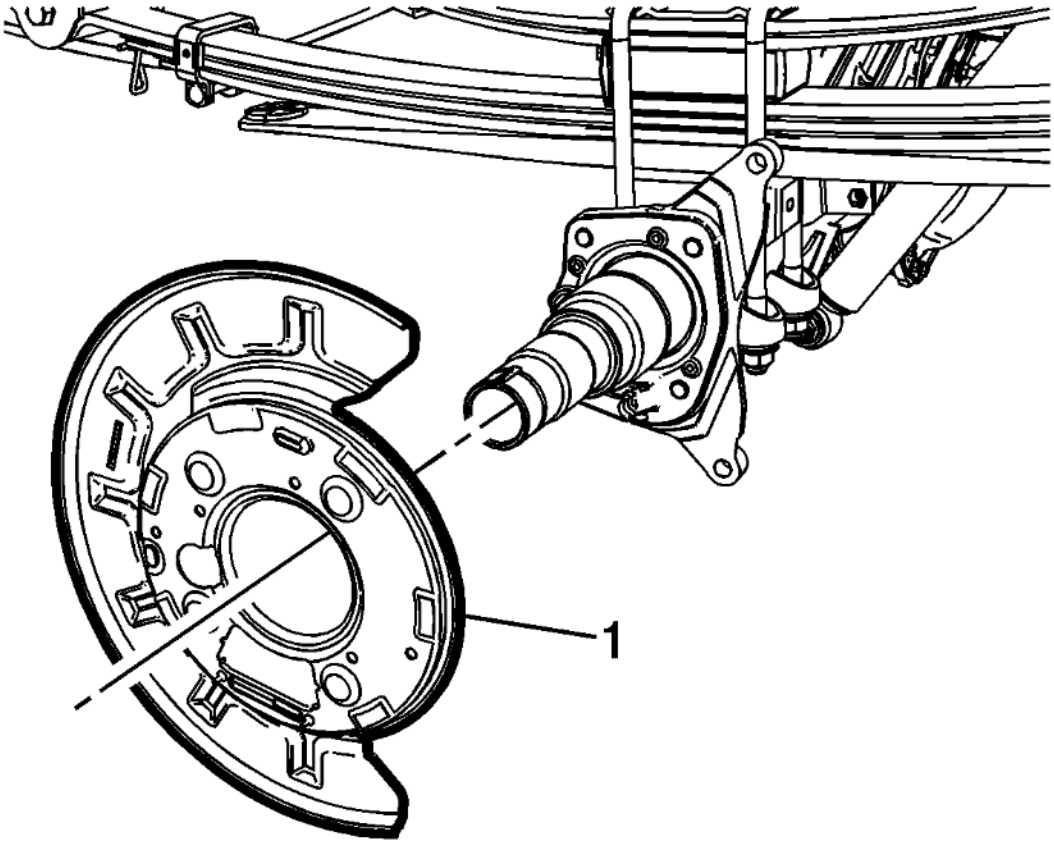


Fig. 109: Rear Brake Backing Plate
Courtesy of GENERAL MOTORS COMPANY

3. Install the rear brake shield (1). Refer to **Rear Brake Shield Replacement (JD9)** **Rear Brake Shield Replacement (J95, J96)** .
4. Install the tire and wheel assembly. Refer to **Tire and Wheel Removal and Installation (6-Lug Wheel)** **Tire and Wheel Removal and Installation (8-Lug Wheel)** **Tire and Wheel Removal and Installation (Dual Rear Wheels)** .

PARKING BRAKE ADJUSTMENT

Special Tools

- **J-21177-A** Drum-to-Brake Shoe Clearance Gauge
- **J-28662** Brake Pedal Effort Gauge

WARNING: **Refer to Brake Dust Warning .**

NOTE: **The park brake cable adjusting nut is a nylon lock type. Use only hand tools whenever loosening or tightening the adjusting nut.**

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NOTE: **The park brake cables may appear slack after performing the complete adjustment procedure. After completing the entire adjustment procedure and verifying proper adjustment through park brake system performance testing, do not attempt to remove the park brake cable slack by tightening the adjusting nut. This is a normal condition.**

1. Apply and fully release the park brake 2-3 times. Verify that the park brake pedal releases completely.
2. Turn the ignition switch to the ON position. Verify the red BRAKE warning lamp is not illuminated.
3. If the red BRAKE warning lamp is illuminated, verify the following:
   - The park brake pedal is in the fully released position and against the stop.
   - There are no binding park brake cables preventing full release of the park brake pedal.
4. If the red BRAKE warning lamp remained illuminated and there are no other visible causes, refer to **Symptoms - Hydraulic Brakes** .
5. Turn OFF the ignition.
6. Raise and support the vehicle. Refer to **Lifting and Jacking the Vehicle** .
7. With the park brake lever in the fully released position, loosen the adjusting nut at the park brake cable equalizer enough to completely relieve the park brake cable tension.

Park Brake Shoe Clearance Adjustment

1. Without disconnecting the hydraulic brake hoses, remove the brake calipers and brackets as an assembly and support with heavy mechanics wire or equivalent. Refer to **Rear Brake Caliper Bracket Replacement (JD9)** **Rear Brake Caliper Bracket Replacement (J95, J96)** .
2. Remove the rear brake rotors. Refer to **Rear Brake Rotor Replacement (JD9)** **Rear Brake Rotor Replacement (J95)** **Rear Brake Rotor Replacement (J96)** .

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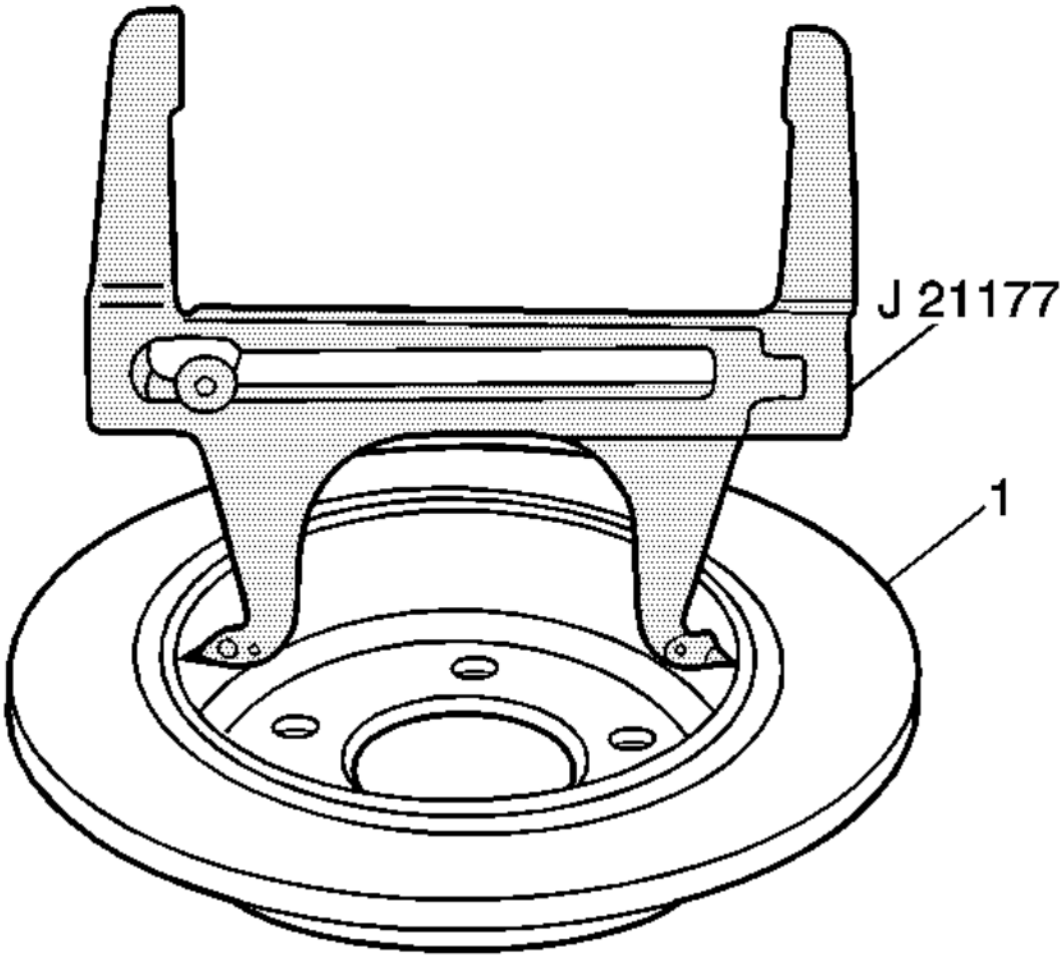


Fig. 110: Measuring Inside Of Rotor
Courtesy of GENERAL MOTORS COMPANY

3. Set the **J-21177-A** Drum-to-Brake Shoe Clearance Gauge so that it lightly contacts the parking brake shoe friction surface of the brake rotor (1) at its widest point.

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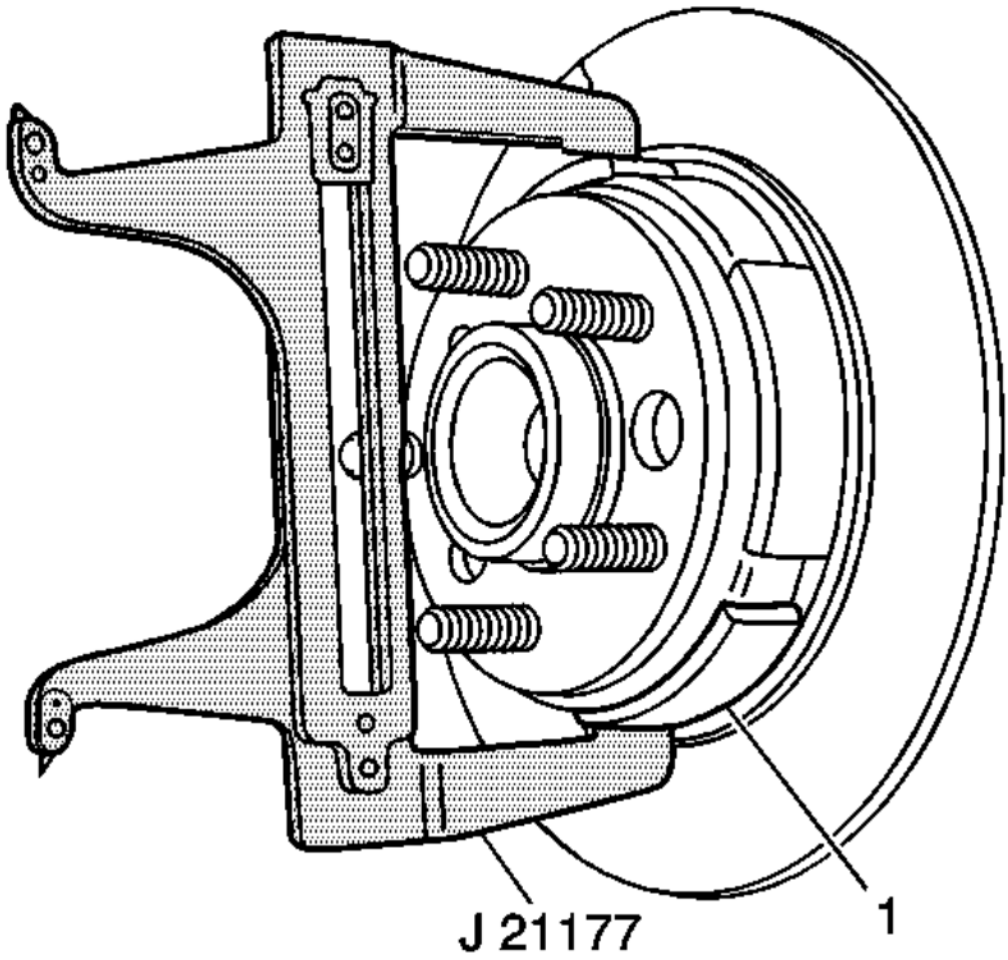


Fig. 111: Adjusting Parking Brake Shoes Using Special Tool
Courtesy of GENERAL MOTORS COMPANY

4. Position the **J-21177-A** Drum-to-Brake Shoe Clearance Gauge over the park brake shoes (1) at the widest point.
5. Rotate the park brake shoe adjuster until the park brake shoes just contact the **J-21177-A** Drum-to-Brake Shoe Clearance Gauge.
6. Using a feeler gauge, set the parking brake shoe clearance to 0.66 mm (0.026 in).
7. Repeat steps 3-6 for the opposite side.
8. Install the rear brake rotors and secure with hand tightened wheel nuts installed with the cone facing outward.
9. With all tension relieved from the park brake cables, rotate the rear brake rotors. Observe the amount of effort required for rotation, and the amount of drag, if present.
10. If drag is present, repeat steps 3-6

Cable Tension Adjustment

1. Position a sheet of ordinary printer or copier paper between the park brake apply lever and the disc brake backing plate on the RH side of the vehicle.
2. Tighten the park brake cable adjusting nut until the paper inserted between the park brake apply lever and

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the backing plate slips out.

3. Loosen the adjustment nut 1 full turn.

Park Brake Adjustment Verification Check

1. Apply and release the park brake lever 3-5 times.
2. Install the **J-28662** Brake Pedal Effort Gauge to the park brake lever pedal.
3. Observe the number of detents required to apply the park brake pedal to the amount of force specified, as indicated on the **J-28662** Brake Pedal Effort Gauge.

   Specification

   3-5 detents required to apply the park brake pedal to 500 N (112 lb) of force.

4. If the number of detents required to achieve correct force is less than the specification, then the cable tension is too high. Repeat adjustment steps as necessary.
5. If the number is detents required to achieve correct force is greater than the specification, then the cable tension is too low. Repeat adjustment steps as necessary.
6. Remove the wheel nuts.
7. Install the brake caliper and bracket assemblies. Refer to **Rear Brake Caliper Bracket Replacement (JD9)** **Rear Brake Caliper Bracket Replacement (J95, J96)** .
8. Install the rear tire and wheel assemblies. Refer to **Lifting and Jacking the Vehicle** .

DESCRIPTION AND OPERATION

PARK BRAKE SYSTEM DESCRIPTION AND OPERATION

System Component Description

The park brake system consists of the following:

Park Brake Pedal Assembly

Receives and transfers park brake system apply input force from driver to park brake cable system. Releases park brake system apply force on vehicles without a park brake release handle through the partial application of the park brake pedal.

Park Brake Release Handle Assembly (If equipped)

Releases applied park brake system when pulled.

Park Brake Cables

Transfers input force received from park brake pedal, through park brake cable equalizer, to park brake apply lever.

Park Brake Cable Equalizer

Evenly distributes input force to both the left and right park brake units.

Park Brake Apply Lever

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Multiplies and transfers input force to park brake actuator.

Park Brake Actuator/Adjuster

Uses multiplied input force from apply lever to expand park brake shoe toward the friction surface of the drum-in-hat portion of the rear brake rotor.
Threaded park brake actuators are also used to control clearance between the park brake shoe and the friction surface of the drum-in-hat portion of the rear brake rotor.

Park Brake Shoe

Applies mechanical output force from park brake actuator to friction surface of the drum-in-hat portion of the rear brake rotor.

System Operation

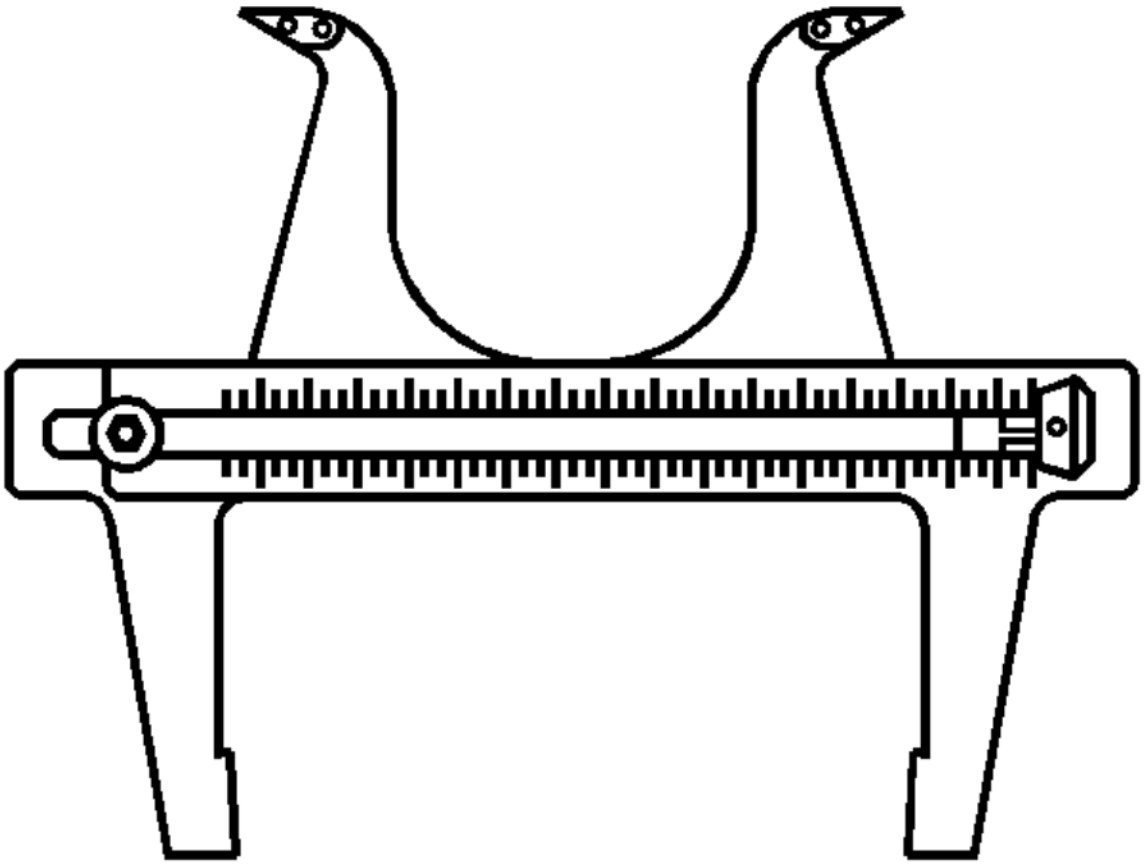
Park brake apply input force is received by the park brake pedal assembly being depressed, transferred and evenly distributed, through the park brake cables and the park brake cable equalizer, to the left and right park brake apply levers. The park brake apply levers multiply and transfer the apply input force to the park brake actuators which expand the park brake shoe toward the friction surface of the drum-in-hat portion of the rear brake rotor in order to prevent the rotation of the rear tire and wheel assemblies. The park brake release handle assembly, if equipped, or the partial application of the park brake pedal releases an applied park brake system when it is pulled rearward.

SPECIAL TOOLS AND EQUIPMENT

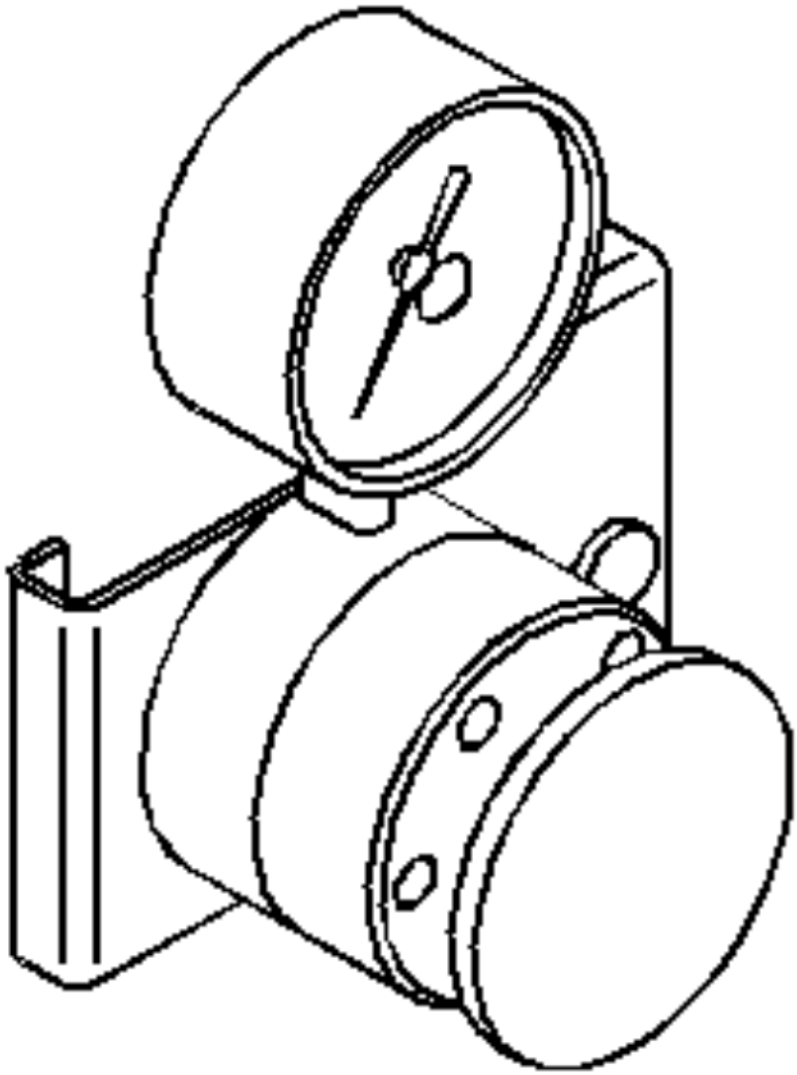
SPECIAL TOOLS

Illustration	Tool Number/ Description

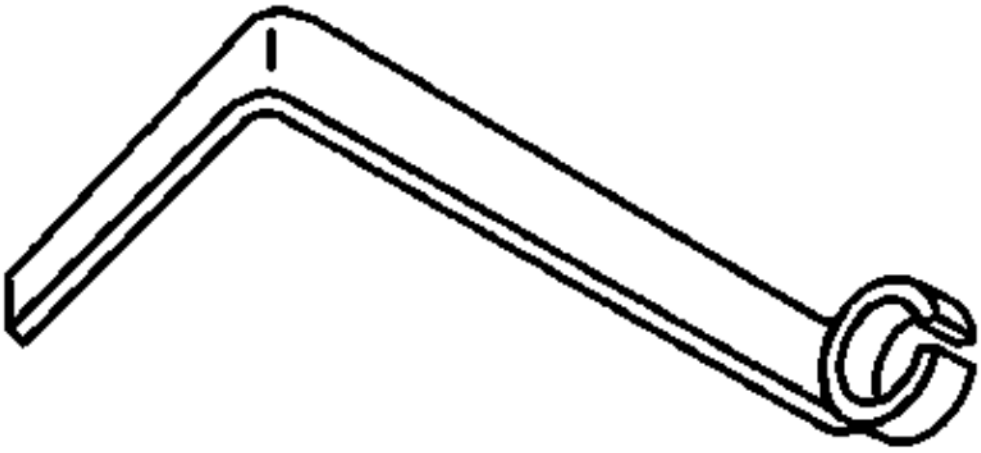
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Illustration	Tool Number/ Description
	J 21177-A Drum-to-Brake Shoe Clearance Gauge

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Illustration	Tool Number/ Description
	J-28662 Brake Pedal Effort Gauge

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Illustration	Tool Number/ Description
	J-37043 Parking Brake Cable Release Tool

Article GUID: A00854598

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