

## 2008 Chevrolet Silverado 1500

2008 BRAKES Park Brake - Cab & Chassis Sierra, Cab & Chassis Silverado, Sierra & Silverado

### 2008 BRAKES

Park Brake - Cab & Chassis Sierra, Cab & Chassis Silverado, Sierra & Silverado

## SPECIFICATIONS

### FASTENER TIGHTENING SPECIFICATIONS

#### Fastener Tightening Specifications

| Application                          | Specification |           |
|--------------------------------------|---------------|-----------|
|                                      | Metric        | English   |
| Park Brake Backing Plate Bolts       | 135 N.m       | 100 lb ft |
| Park Brake Cable Clip Bolt           | 22 N.m        | 16 lb ft  |
| Park Brake Cable Guide Bolts         | 12 N.m        | 106 lb in |
| Park Brake Pedal Assembly Nuts       | 25 N.m        | 18 lb ft  |
| Park Brake Release Handle Bolt       | 9 N.m         | 80 lb in  |
| Park Brake Shoe Retaining Clip Bolts | 15 N.m        | 11 lb ft  |
| Park Brake Warning Lamp Switch Bolt  | 3 N.m         | 27 lb in  |

## DIAGNOSTIC INFORMATION AND PROCEDURES

### DIAGNOSTIC STARTING POINT - PARK BRAKE

Begin the system diagnosis by reviewing the system description and operation. Reviewing the description and operation information will help you determine the correct symptom diagnostic procedure when a malfunction exists. Reviewing the description and operation information will also help you determine if the condition described by the customer is normal operation. Refer to **Symptoms - Park Brake** in order to identify the correct procedure for diagnosing the system and where the procedure is located.

### 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 (w/Rear Drum)** or **Park Brake System Description and Operation (w/Rear Disc)**.

Visual/Physical Inspection

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- 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 <b>Step 2</b> | Go to <b><u>Diagnostic Starting Point - Park Brake</u></b> |
| 2    | Inspect the park brake system for proper operation. Refer to <b><u>Park Brake System Diagnosis</u></b> .<br>Did you find and correct a condition?           | Go to <b>Step 5</b> | Go to <b>Step 3</b>                                        |
| 3    | Inspect the disc brake system for proper operation. Refer to <b><u>Disc Brake System Diagnosis</u></b> .<br>Did you find and correct a condition?           | Go to <b>Step 5</b> | Go to <b>Step 4</b>                                        |
| 4    | Inspect the hydraulic brake system for proper operation. Refer to <b><u>Hydraulic Brake System Diagnosis</u></b> .<br>Did you find and correct a condition? | Go to <b>Step 5</b> | Go to <b><u>Diagnostic Starting Point - Park Brake</u></b> |
| 5    | Road test the vehicle in order to confirm proper operation. Refer to <b><u>Brake System Vehicle Road Test</u></b> .<br>Is the condition still present?      | Go to <b>Step 2</b> | 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. |        |     |    |

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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 <b>Step 4</b>                                        | Go to <b>Step 2</b>                                              |
| 2 | Were you sent here from a Park Brake Symptom Table?                                                                                                                                                                                                                                                                                                                                                                                           | Go to <b>Step 4</b>                                        | Go to <b>Step 3</b>                                              |
| 3 | Is the symptom related to the ability of the park brake system to hold and/or release?                                                                                                                                                                                                                                                                                                                                                        | Go to <b><u>Diagnostic Starting Point - Park Brake</u></b> | Go to <b><u>Diagnostic Starting Point - Hydraulic Brakes</u></b> |
| 4 | <ol style="list-style-type: none"> <li>1. Raise and support the vehicle with the rear axle supported by jack stands. Refer to <b><u>Lifting and Jacking the Vehicle</u></b> .</li> <li>2. Shift the transmission into NEUTRAL.</li> <li>3. With the park brake RELEASED, attempt to rotate the rear wheels to check the rear brakes for a significant amount of drag.</li> </ol> <p>Do the rear brakes have a significant amount of drag?</p> | Go to <b>Step 9</b>                                        | Go to <b>Step 5</b>                                              |
| 5 | <ol style="list-style-type: none"> <li>1. Shift the transmission into NEUTRAL.</li> <li>2. Apply the park brake.</li> <li>3. Attempt to rotate the rear wheels to check the rear brakes for a significant amount of drag.</li> </ol> <p>Do the rear brakes have a significant amount of drag?</p>                                                                                                                                             | Go to <b>Step 19</b>                                       | Go to <b>Step 6</b>                                              |
| 6 | <p>Visually check the park brake cable connections and the cables that are accessible on the <b>UNDERSIDE</b> of the vehicle for disconnections and/or damage.</p> <p>Were any or the park brake cables disconnected and/or damaged?</p>                                                                                                                                                                                                      | Go to <b>Step 7</b>                                        | Go to <b>Step 8</b>                                              |
|   | Reconnect or replace the park brake cables as necessary. Refer to the following procedures as necessary:                                                                                                                                                                                                                                                                                                                                      |                                                            |                                                                  |

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|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                      |                     |
|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------------------|
| 7 | <ul style="list-style-type: none"> <li>• <b><u>Parking Brake Lever Pedal Assembly Replacement</u></b><br/><br/>(The front park brake cable and the park brake pedal are replaced as an assembly.)</li> <li>• <b><u>Parking Brake Intermediate Cable Replacement (JD9, JF3, JF7)</u></b></li> <li>• <b><u>Parking Brake Rear Cable Replacement - Left Side (JF3, JF7)</u></b> or <b><u>Parking Brake Rear Cable Replacement - Left Side (JD9)</u></b></li> <li>• <b><u>Parking Brake Rear Cable Replacement - Right Side (JF3, JF7)</u></b> or <b><u>Parking Brake Rear Cable Replacement - Right Side (JD9)</u></b></li> </ul> <p>Did you complete the repair and/or replacement?</p> | Go to <b>Step 19</b> | -                   |
| 8 | <p>Check the adjustment of the park brake and adjust as necessary. Refer to <b><u>Park Brake Adjustment (Drum Brake)</u></b> or <b><u>Park Brake Adjustment (Disc Brake)</u></b>.</p> <p>Did you find and correct the condition?</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Go to <b>Step 19</b> | Go to <b>Step 9</b> |
| 9 | <p><b>NOTE:</b><br/>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.</p> <ol style="list-style-type: none"> <li>1. Remove the rear brake rotors. Refer to <b><u>Rear Brake Rotor Replacement (JD9)</u></b> or <b><u>Rear Brake Rotor Replacement (JH6)</u></b> or <b><u>Rear Brake Rotor Replacement (JH7)</u></b> .</li> <li>2. Inspect the park brake shoe hardware for looseness, damaged, broken or missing components.</li> </ol>                                                                                              |                      |                     |

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|    |                                                                                                                                                                                                                                                                                                                                                                       |                      |                                           |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------------------------|
|    | <p>3. Check the park brake actuators for a seized condition.</p> <p>Does the park brake hardware and/or the park brake actuators require replacement?</p>                                                                                                                                                                                                             | Go to <b>Step 10</b> | Go to <b>Step 11</b>                      |
| 10 | <p>1. Replace park brake hardware components as necessary. Refer to <b><u>Parking Brake Shoe Replacement (JD9)</u></b> or <b><u>Parking Brake Shoe Replacement (JH6, JH7)</u></b>.</p> <p>2. Replace the park brake actuators as necessary. Refer to <b><u>Parking Brake Actuator Replacement (JD9)</u></b>.</p> <p>Did you complete the replacement?</p>             | Go to <b>Step 19</b> | -                                         |
| 11 | <p>With the aid of an assistant, apply and release the parking brake while observing the cables for free movement.</p> <p>Do the park brake cables move freely?</p>                                                                                                                                                                                                   | Go to <b>Step 12</b> | Go to <b>Step 14</b>                      |
| 12 | <p>Check the adjustment of the park brake and adjust as necessary. Refer to <b><u>Park Brake Adjustment (Drum Brake)</u></b> or <b><u>Park Brake Adjustment (Disc Brake)</u></b>.</p> <p>Did you find and correct the condition?</p>                                                                                                                                  | Go to <b>Step 19</b> | Go to <b>Step 13</b>                      |
| 13 | <p>1. With the transmission still in NEUTRAL, apply the park brake.</p> <p>2. Attempt to rotate the rear wheels to check the rear brakes for a significant amount of drag.</p> <p>3. Release the park brake.</p> <p>4. Rotate the rear wheels to check the rear brakes for a significant reduction of drag.</p> <p>Did the park brake apply and release properly?</p> | Go to <b>Step 19</b> | Go to <b><u>Symptoms - Park Brake</u></b> |
| 14 | <p>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.</p>                                                                                                                                                                                                          |                      |                                           |

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|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |                      |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------|
|    | Do any of the park brake cables accessible on the underside of the vehicle require replacement?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Go to <b>Step 15</b> | Go to <b>Step 16</b> |
| 15 | <p>Replace any of the park brake cables that do not have free movement (not releasing properly). Refer to the following procedures as necessary:</p> <ul style="list-style-type: none"> <li>• <b><u>Parking Brake Lever Pedal Assembly Replacement</u></b></li> </ul> <p>(The front park brake cable and the park brake pedal are replaced as an assembly.)</p> <ul style="list-style-type: none"> <li>• <b><u>Parking Brake Intermediate Cable Replacement (JD9, JF3, JF7)</u></b></li> <li>• <b><u>Parking Brake Rear Cable Replacement - Left Side (JF3, JF7)</u></b> or <b><u>Parking Brake Rear Cable Replacement - Left Side (JD9)</u></b></li> <li>• <b><u>Parking Brake Rear Cable Replacement - Right Side (JF3, JF7)</u></b> or <b><u>Parking Brake Rear Cable Replacement - Right Side (JD9)</u></b></li> </ul> <p>Did you complete the replacement?</p> | Go to <b>Step 19</b> | -                    |
| 16 | <ol style="list-style-type: none"> <li>1. Disconnect the park brake release handle assembly cable from the park brake pedal assembly and check for free movement.</li> <li>2. Replace the park brake release handle assembly if the release cable does not have free movement. Refer to <b><u>Parking Brake Release Handle Assembly Replacement</u></b>.</li> </ol> <p>Did you find and correct a condition?</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Go to <b>Step 19</b> | Go to <b>Step 17</b> |
|    | Inspect the park brake pedal assembly for proper operation and replace as necessary.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |                      |

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|    |                                                                                                                                                                                                                                                                                                                                                     |                      |                                           |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------------------------|
| 17 | Refer to <b><u>Parking Brake Lever Pedal Assembly Replacement</u></b> .<br>Did you find and correct the condition?                                                                                                                                                                                                                                  | Go to <b>Step 19</b> | Go to <b>Step 18</b>                      |
| 18 | 1. Replace the component that is used to adjust the park brake system. Refer to <b><u>Parking Brake Lever Pedal Assembly Replacement</u></b> .<br>2. Adjust the park brake. Refer to <b><u>Park Brake Adjustment (Drum Brake)</u></b> or <b><u>Park Brake Adjustment (Disc Brake)</u></b> .<br><br>Did you complete the replacement and adjustment? | Go to <b>Step 19</b> | Go to <b><u>Symptoms - Park Brake</u></b> |
| 19 | Install or connect any components that were removed or disconnected during diagnosis.<br>Did you complete the operation?                                                                                                                                                                                                                            | Park Brake System OK | Go to <b><u>Symptoms - Park Brake</u></b> |

### PARKING BRAKE SHOE INSPECTION

**CAUTION:** Refer to **Brake Dust Caution** .

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** .
3. Remove the rear brake caliper bracket with the rear brake caliper. Refer to **Rear Brake Caliper Bracket Replacement (JH6, JH7)** or **Rear Brake Caliper Bracket Replacement (JD9)** .

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

4. Remove the rear brake rotor. Refer to **Rear Brake Rotor Replacement (JD9)** or **Rear Brake Rotor Replacement (JH6)** or **Rear Brake Rotor Replacement (JH7)** .
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 **Park Brake Adjustment (Drum Brake)** or **Park Brake Adjustment (Disc Brake)**.
  7. Install the rear brake rotor. Refer to **Rear Brake Rotor Replacement (JD9)** or **Rear Brake Rotor Replacement (JH6)** or **Rear Brake Rotor Replacement (JH7)** .
  8. Install the rear brake caliper with the rear brake caliper bracket. Refer to **Rear Brake Caliper Bracket Replacement (JH6, JH7)** or **Rear Brake Caliper Bracket Replacement (JD9)** .
  9. Install the tire and wheel assembly. Refer to **Tire and Wheel Removal and Installation** .
  10. Lower the vehicle.

## REPAIR INSTRUCTIONS

### PARKING BRAKE SHOE REPLACEMENT (JD9)

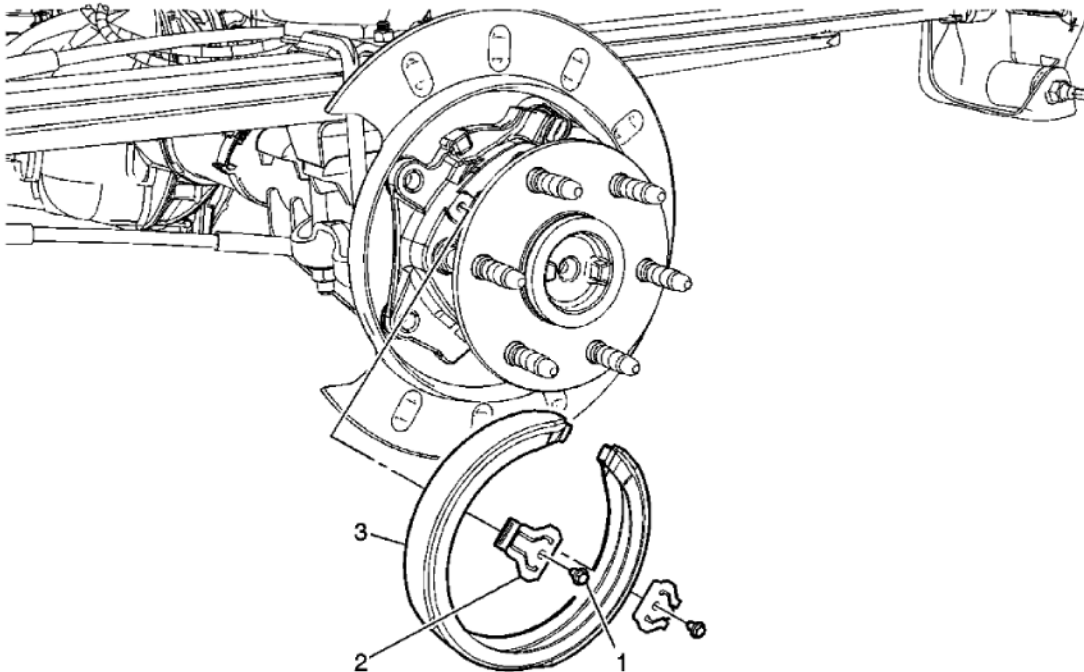


**Fig. 1: View Of Parking Brake Shoe (JD9)**  
Courtesy of GENERAL MOTORS CORP.

| Callout  | Component Name |
|----------|----------------|
| CAUTION: |                |

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Refer to **Brake Dust Caution** .

### Preliminary Procedures

1. Raise and support the vehicle. Refer to **Lifting and Jacking the Vehicle** .
2. Remove the brake rotor. Refer to **Rear Brake Rotor Replacement (JD9)** or **Rear Brake Rotor Replacement (JH6)** or **Rear Brake Rotor Replacement (JH7)** .
3. Disconnect the park brake cable from the actuator.

|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | <p>Park Brake Shoe Retaining Clip Bolt (Qty: 2)</p> <p><b>NOTE:</b><br/>Refer to <b><u>Fastener Notice</u></b> .</p> <p><b>Tighten:</b> 15 N.m (11 lb ft)</p>                                                                                                                                                                                                                                                                                                                                                                                                        |
| 2 | <p>Park Brake Shoe Retaining Clip (Qty: 2)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 3 | <p>Park Brake Shoe and Lining</p> <p><b>Procedure</b></p> <ol style="list-style-type: none"><li>1. To remove and install the park brake shoe, place the open end of the park brake shoe over the axle flange and rotate it until the shoe has cleared the flange.</li><li>2. Apply a thin coat of high temperature silicone brake lubricant to the contact areas of the brake shoe and the backing plate.</li><li>3. Adjust the park brake. Refer to <b><u>Park Brake Adjustment (Drum Brake)</u></b> or <b><u>Park Brake Adjustment (Disc Brake)</u></b>.</li></ol> |

### PARKING BRAKE SHOE REPLACEMENT (JH6, JH7)

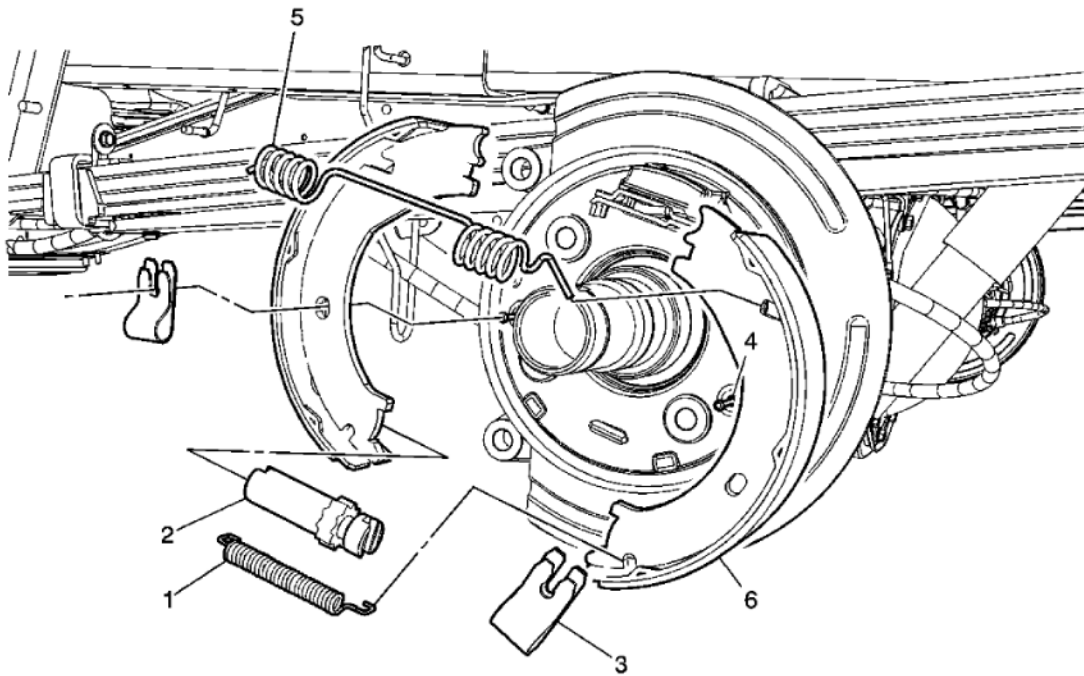


**Fig. 2: View Of Parking Brake Shoe (JH6, JH7)**  
 Courtesy of GENERAL MOTORS CORP.

| Callout                                                                                                                                                                                                                                                                                                                                                                        | Component Name                                                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| <b>CAUTION:</b><br>Refer to <u>Brake Dust Caution</u> .                                                                                                                                                                                                                                                                                                                        |                                                                                                                             |
| <b>Preliminary Procedures</b>                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                             |
| 1. Raise and support the vehicle. Refer to <u>Lifting and Jacking the Vehicle</u> .<br>2. Remove the rear tire and wheel assembly. Refer to <u>Tire and Wheel Removal and Installation</u> .<br>3. Remove the rear brake rotor. Refer to <u>Rear Brake Rotor Replacement (JD9)</u> or <u>Rear Brake Rotor Replacement (JH6)</u> or <u>Rear Brake Rotor Replacement (JH7)</u> . |                                                                                                                             |
| 1                                                                                                                                                                                                                                                                                                                                                                              | Park Brake Shoe Adjuster Spring                                                                                             |
| 2                                                                                                                                                                                                                                                                                                                                                                              | Park Brake Shoe Adjuster<br><b>Procedure:</b><br>Clean the threads and apply high temperature grease to the adjuster screw. |
| 3                                                                                                                                                                                                                                                                                                                                                                              | Park Brake Shoe Hold Down Spring (Qty: 2)<br><b>Procedure:</b>                                                              |

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|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   | Compress the spring and rotate 1/4 turn to release.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 4 | Park Brake Shoe Hold Down Spring Pin (Qty: 2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 5 | Park Brake Shoe Return Spring                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|   | Park Brake Shoe (Qty: 2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|   | <b>Procedure</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 6 | <ol style="list-style-type: none"><li>1. Use denatured alcohol to clean brake dust or grease from the park brake shoes and hardware.</li><li>2. If reinstalling the park brake shoes, note the location of the park brake shoes for installation.</li><li>3. Apply a small amount of high temperature silicone grease to the brake shoe and backing plate contact points.</li><li>4. After the installation is complete, adjust the park brake. Refer to <b><u>Park Brake Adjustment (Drum Brake)</u></b> or <b><u>Park Brake Adjustment (Disc Brake)</u></b>.</li></ol> |

### PARKING BRAKE RELEASE HANDLE ASSEMBLY REPLACEMENT

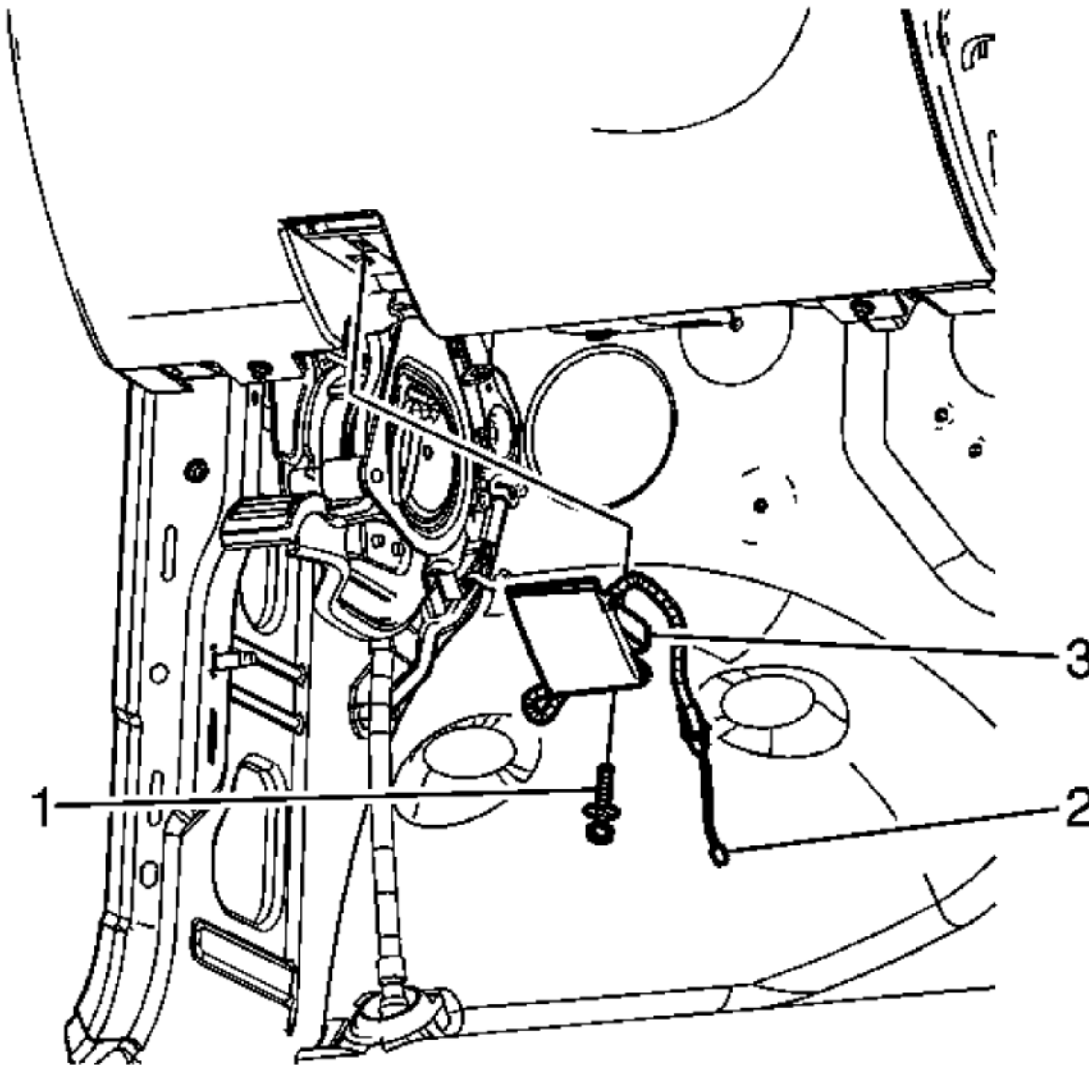


**Fig. 3: View Of Parking Brake Release Handle Assembly**  
Courtesy of GENERAL MOTORS CORP.

| Callout | Component Name                                                                                                                           |
|---------|------------------------------------------------------------------------------------------------------------------------------------------|
| 1       | Park Brake Release Handle Bolt (Qty: 1)<br><br><b>NOTE:</b><br>Refer to <u>Fastener Notice</u> .<br><br><b>Tighten:</b> 9 N.m (80 lb in) |
| 2       | Park Brake Release Handle Cable<br><b>Tip:</b> Slide the park brake release cable forward to remove it from the park                     |

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|   |                           |
|---|---------------------------|
|   | brake module.             |
| 3 | Park Brake Release Handle |

### PARKING BRAKE LEVER PEDAL ASSEMBLY REPLACEMENT

#### Removal Procedure

**IMPORTANT:** The following service procedure includes the removal of the front park brake cable. The front park brake cable is NOT serviced separately, but serviced with the park brake pedal assembly.

1. Remove the left side hinge pillar trim panel. Refer to **Body Hinge Pillar Trim Panel Replacement** .
2. Disconnect the park brake warning lamp electrical connector.
3. Disable the park brake cable automatic adjuster. Refer to **Parking Brake Cable Adjuster Disabling**.
4. Remove the bolt and disconnect the park brake pedal release handle from the instrument panel.
5. Without disconnecting the electrical connectors, remove the left side instrument panel electrical center/junction block and position aside. Refer to **Instrument Panel Electrical Center or Junction Block Replacement - Left Side** .
6. Raise and support the vehicle. Refer to **Lifting and Jacking the Vehicle** .

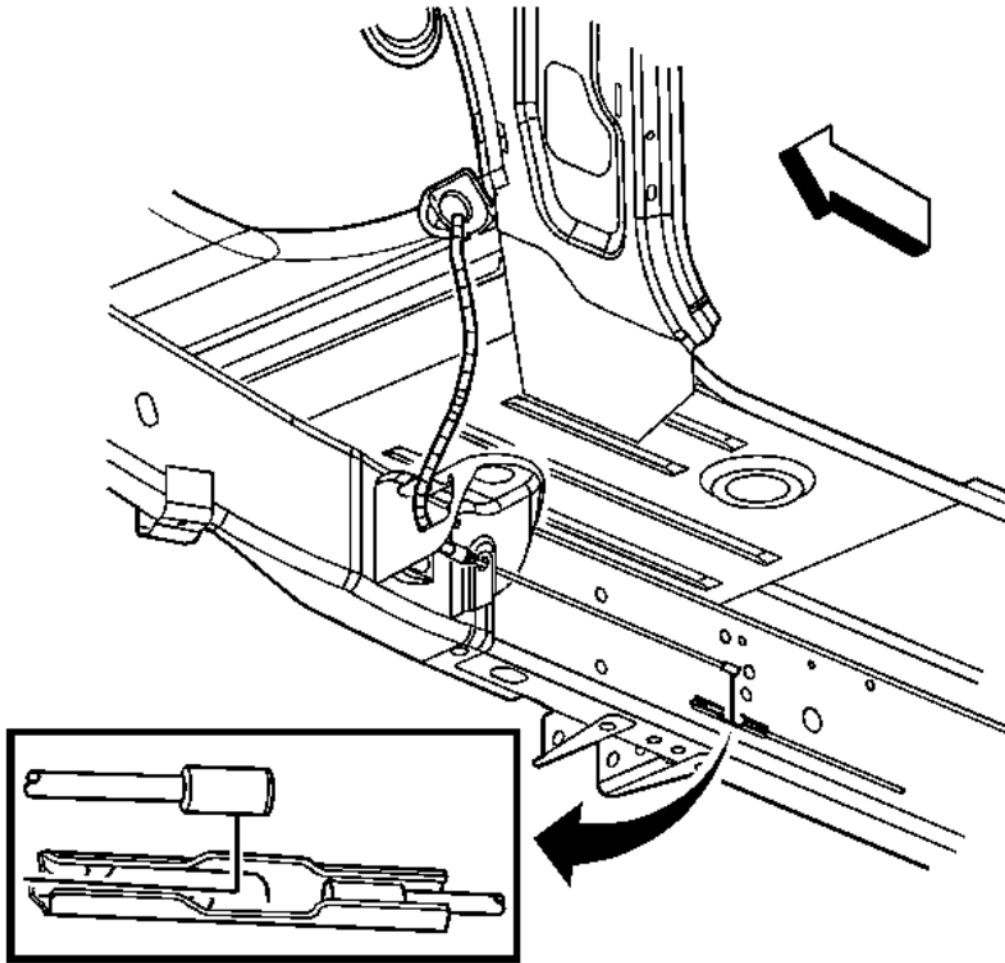


**Fig. 4: View Of Park Brake Cable - Front/Intermediate**  
**Courtesy of GENERAL MOTORS CORP.**

7. Disconnect the front park brake cable from the intermediate cable connector by drilling a 3 mm (1/8 in) hole through the dimple in the front to intermediate park brake cable connector.
8. Release the front park brake cable from the frame by depressing the locking tabs.
9. Lower the vehicle.

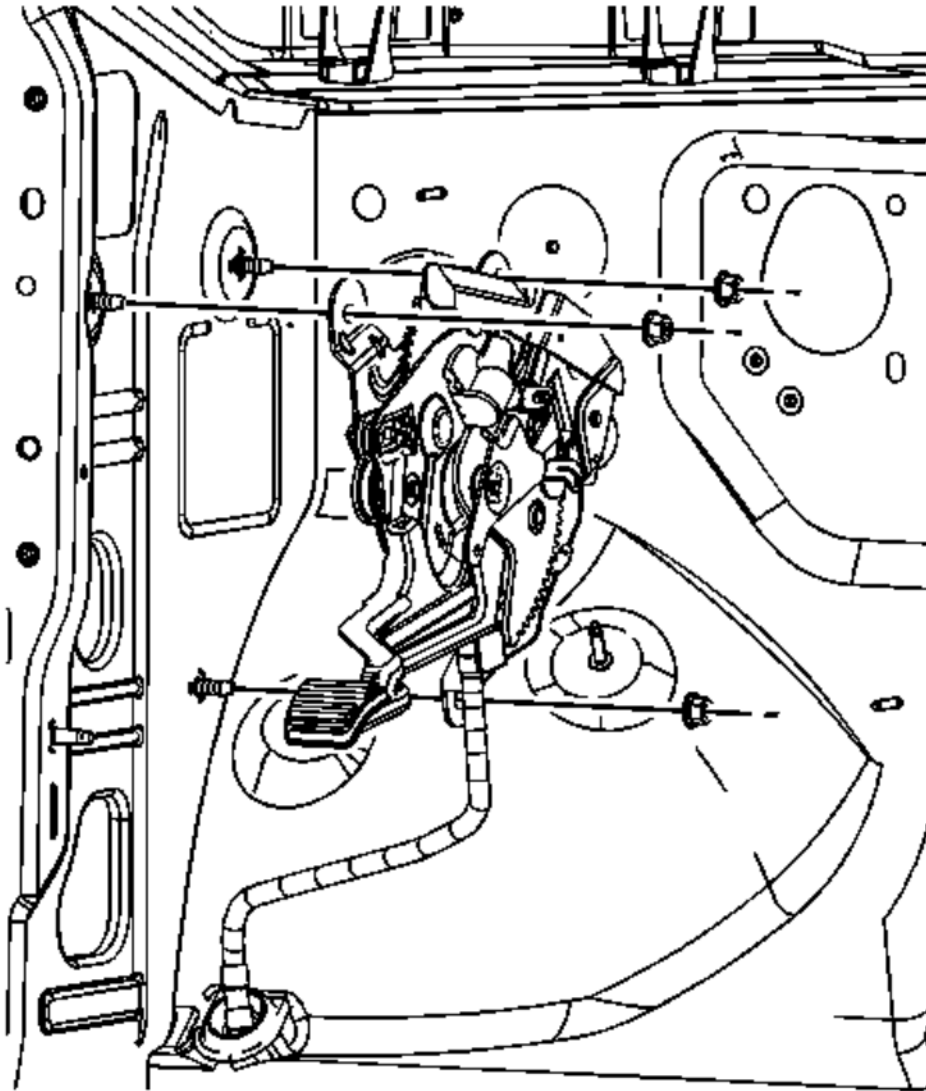


**Fig. 5: View Of Park Brake Lever Mounting Nuts**  
**Courtesy of GENERAL MOTORS CORP.**

10. Remove the park brake lever mounting nuts.

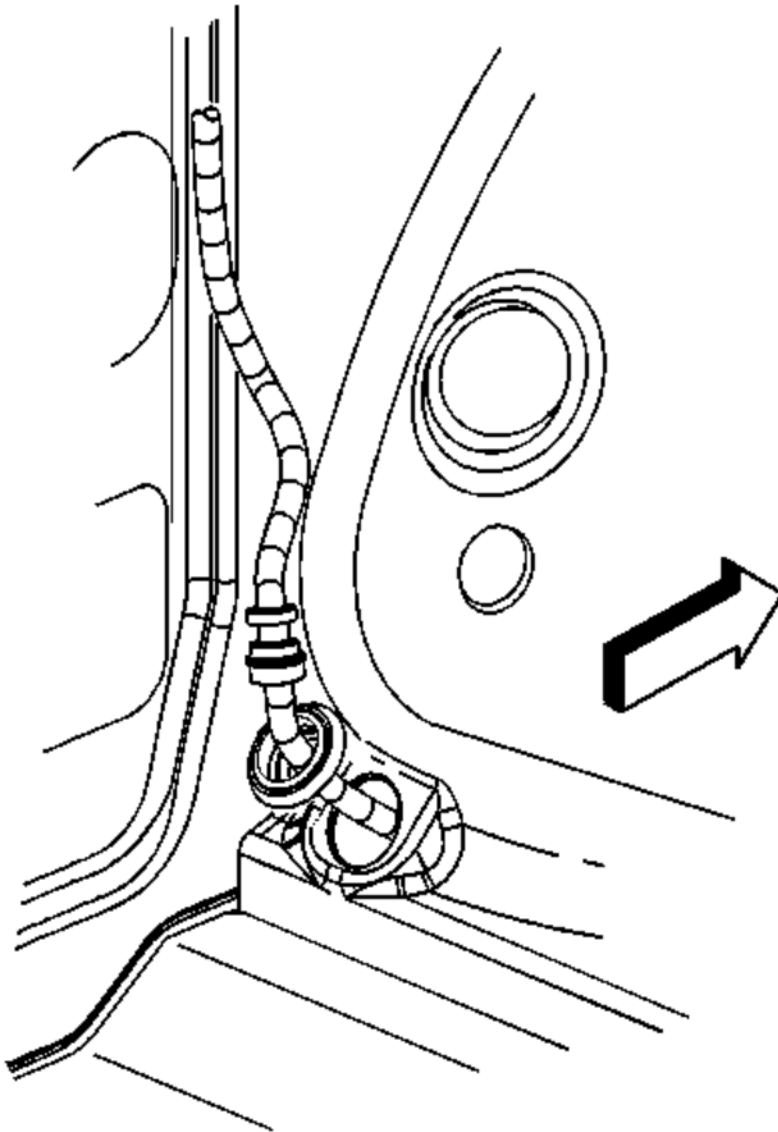


**Fig. 6: Front Park Brake Cable Grommet**  
**Courtesy of GENERAL MOTORS CORP.**

11. Position the floor carpet to expose the park brake cable pass-through grommet.
12. Release the park brake cable pass-through grommet from the vehicle floor.
13. Remove the park brake lever and front cable from the vehicle.

## Installation Procedure

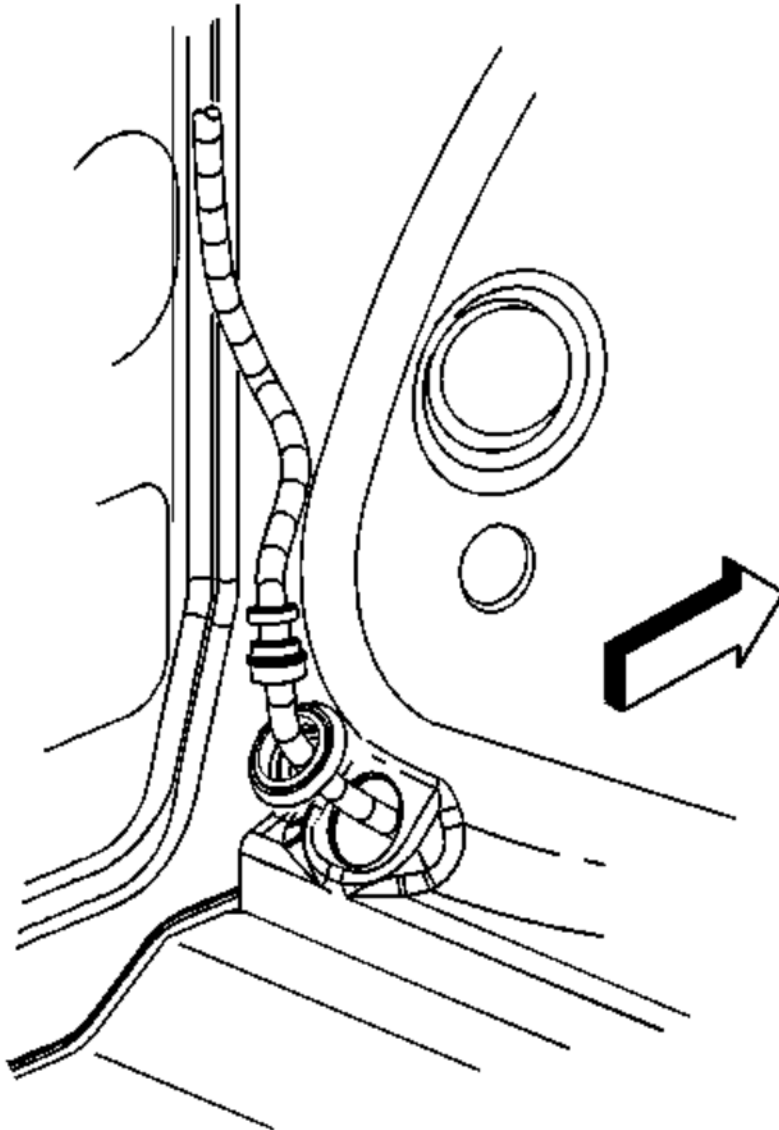


**Fig. 7: Front Park Brake Cable Grommet**  
**Courtesy of GENERAL MOTORS CORP.**

**IMPORTANT:** Ensure the grommet for the front park brake cable 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.
2. Position the floor carpet to the floor pan.

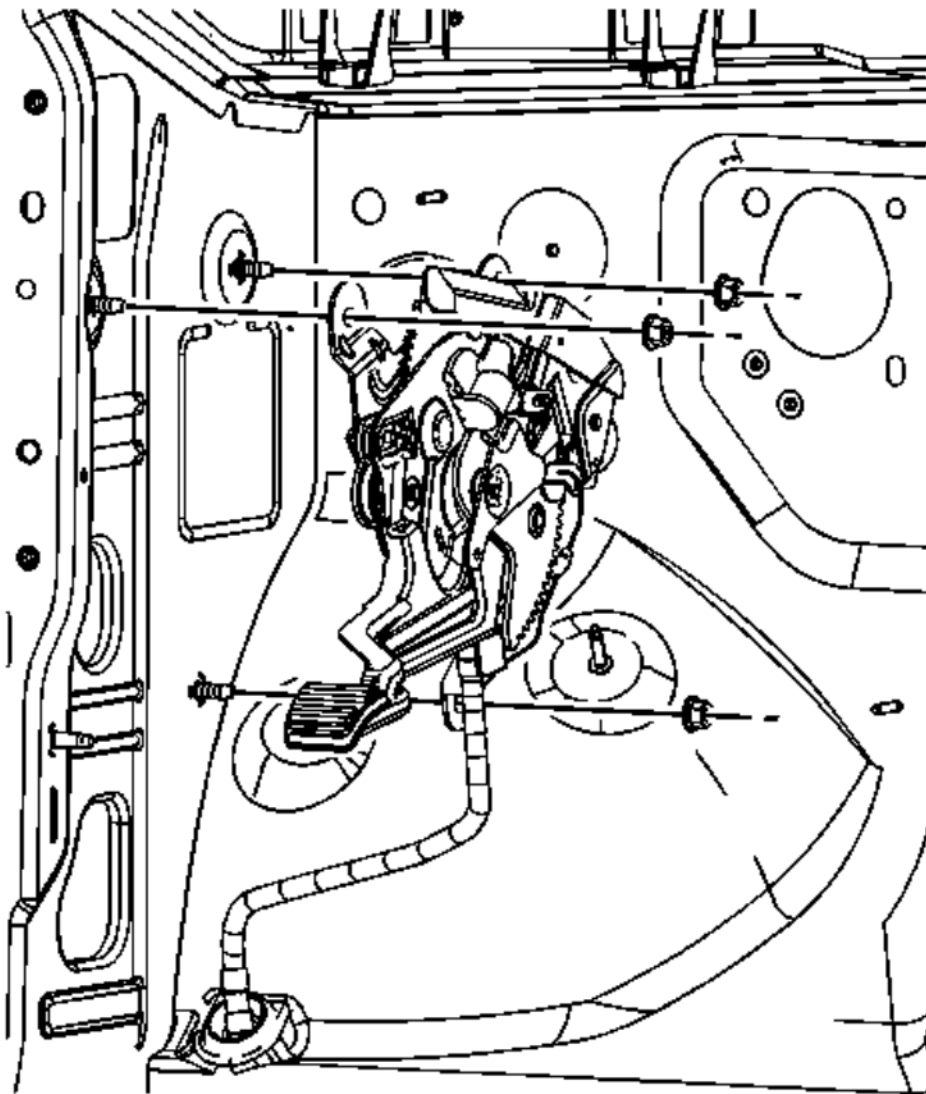


**Fig. 8: View Of Park Brake Lever Mounting Nuts**

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**Courtesy of GENERAL MOTORS CORP.**

3. Position the park brake pedal assembly on the side panel.

**NOTE:** Refer to **Fastener Notice** .

4. Install and finger tighten the mounting nuts.

**Tighten:** Tighten the nuts to 25 N.m (18 lb ft).

5. Connect the park brake warning lamp connection.

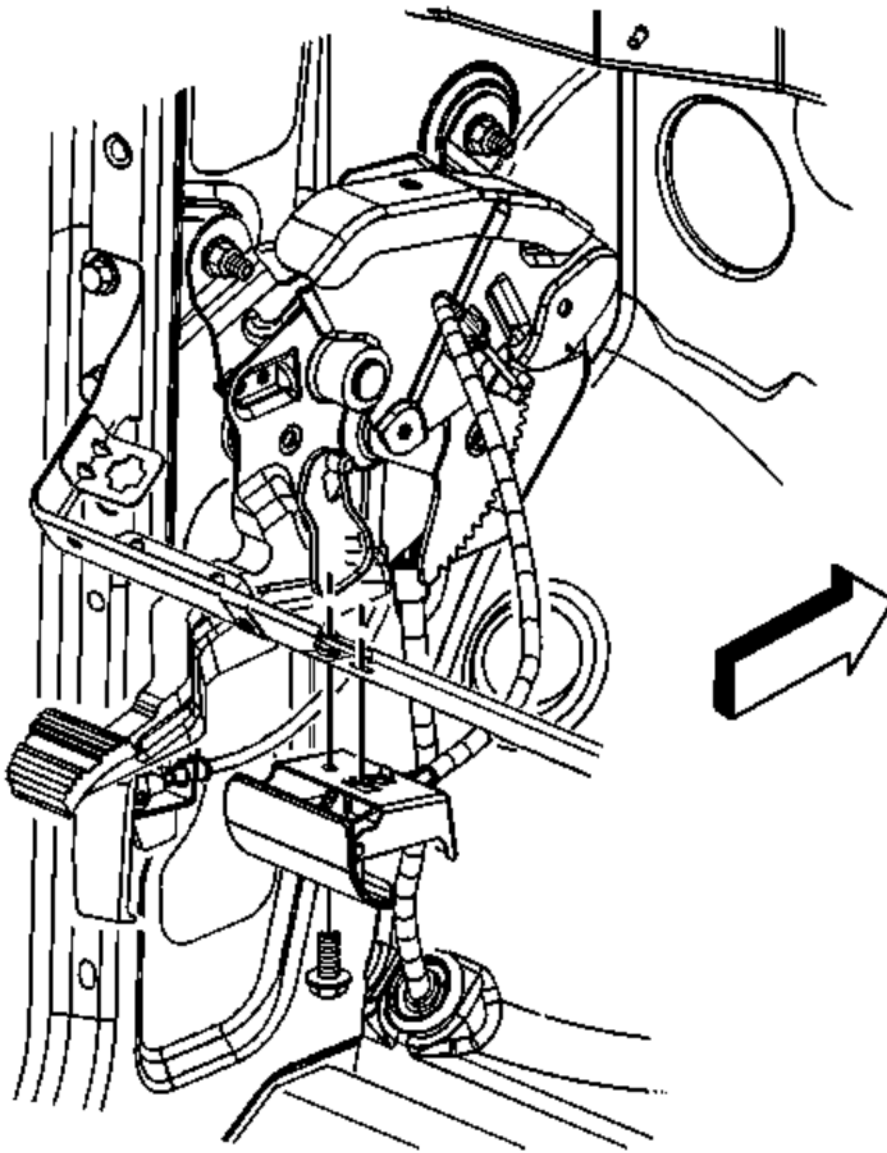


**Fig. 9: View Of Park Brake Release Lever Handle & Bolt**  
Courtesy of GENERAL MOTORS CORP.

6. Install the park brake release handle to the instrument panel.
7. Install the park brake release handle bolt.

**Tighten:** Tighten the bolt to 9 N.m (80 lb in).

8. Install the hinge pillar trim panel. Refer to **Body Hinge Pillar Trim Panel Replacement** .
9. Install the left side instrument panel electrical center/junction block. Refer to **Instrument Panel Electrical Center or Junction Block Replacement - Left Side** .
10. Raise the vehicle.

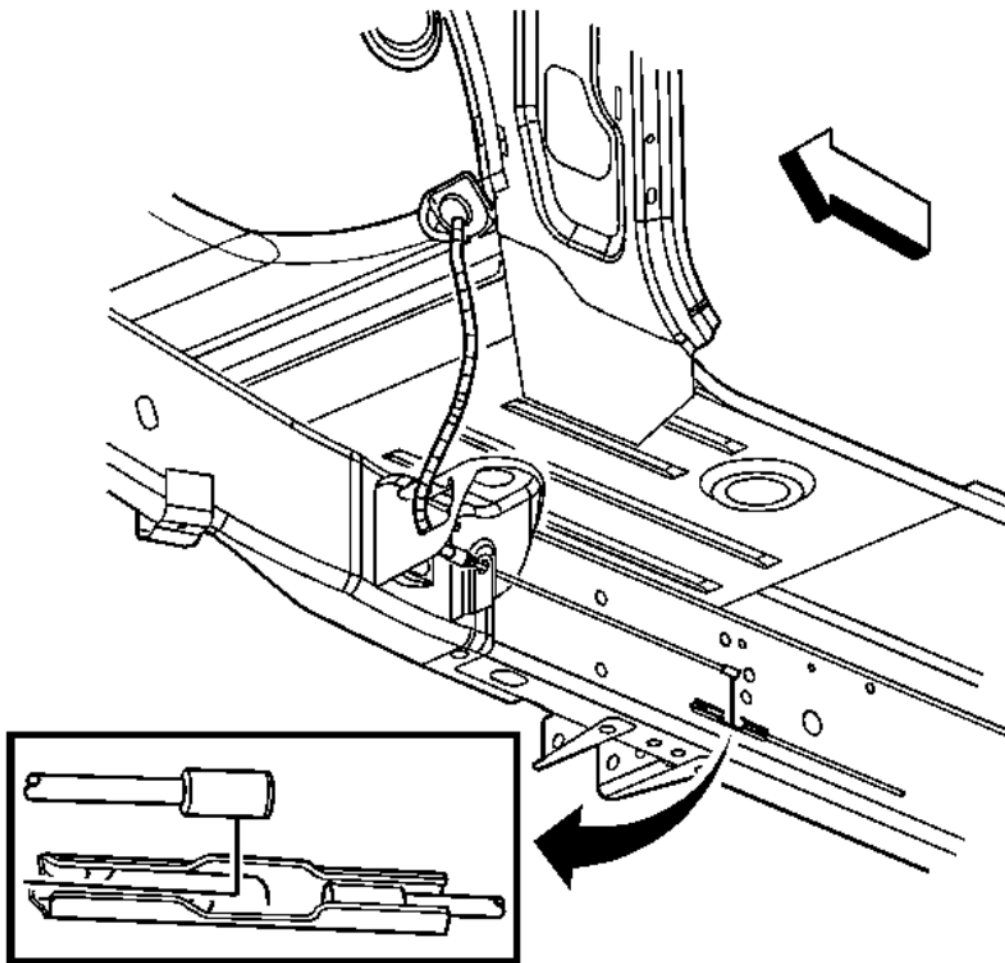


**Fig. 10: View Of Park Brake Cable - Front/Intermediate**  
Courtesy of GENERAL MOTORS CORP.

11. Install the front park brake cable to the frame and press the retainer into place.

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12. Connect the front park brake cable to the front to intermediate park brake cable connector.
13. Lower the vehicle.
14. Enable the park brake cable automatic adjuster. Refer to **Parking Brake Cable Adjuster Enabling**.
15. Adjust the park brake. Refer to **Park Brake Adjustment (Drum Brake)** or **Park Brake Adjustment (Disc Brake)**.

### PARKING BRAKE INDICATOR SWITCH REPLACEMENT

#### Removal Procedure

**CAUTION:** Refer to **Battery Disconnect Caution** .

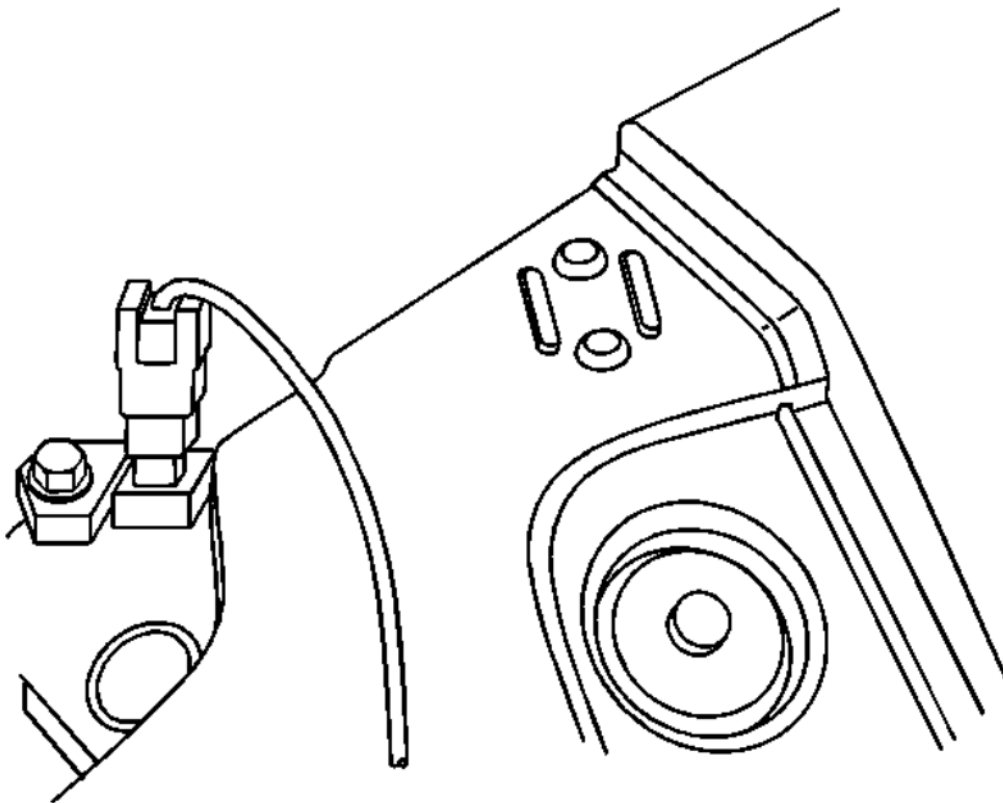


**Fig. 11: Park Brake Warning Lamp Switch Electrical Connector**  
**Courtesy of GENERAL MOTORS CORP.**

1. Disconnect the negative battery cable. Refer to **Battery Negative Cable Disconnection and Connection (w/Single Battery)** or **Battery Negative Cable Disconnection and Connection (w/Auxiliary Battery)** or **Battery Negative Cable Disconnection and Connection (w/Dual Batteries)** .
2. Without disconnecting the electrical connectors, remove the left side instrument panel electrical center/junction block and position aside. Refer to **Instrument Panel Electrical Center or Junction Block Replacement - Left Side** .
3. Disconnect the park brake warning lamp switch electrical connector.

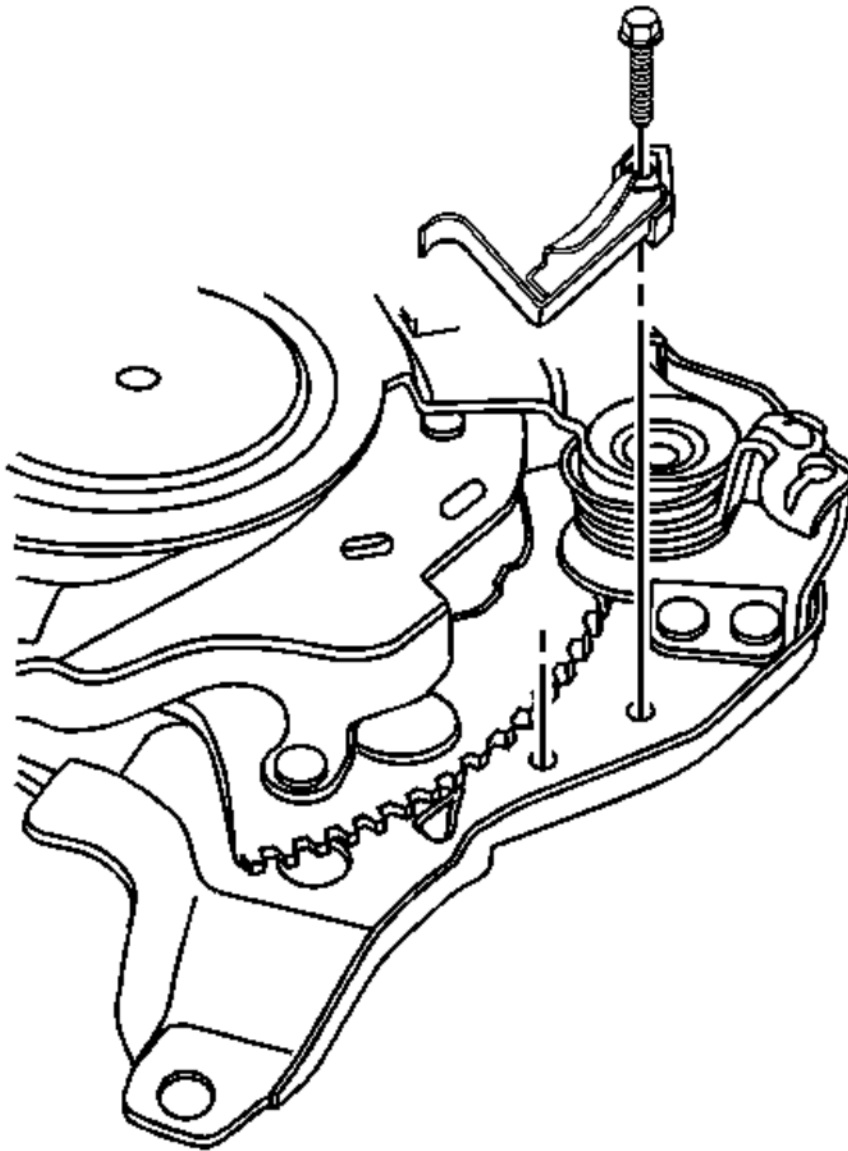


**Fig. 12: Park Brake Warning Lamp Switch Mounting Bolt**  
Courtesy of GENERAL MOTORS CORP.

4. Remove the park brake warning lamp switch bolt.
5. Remove the park brake warning lamp switch.

### Installation Procedure

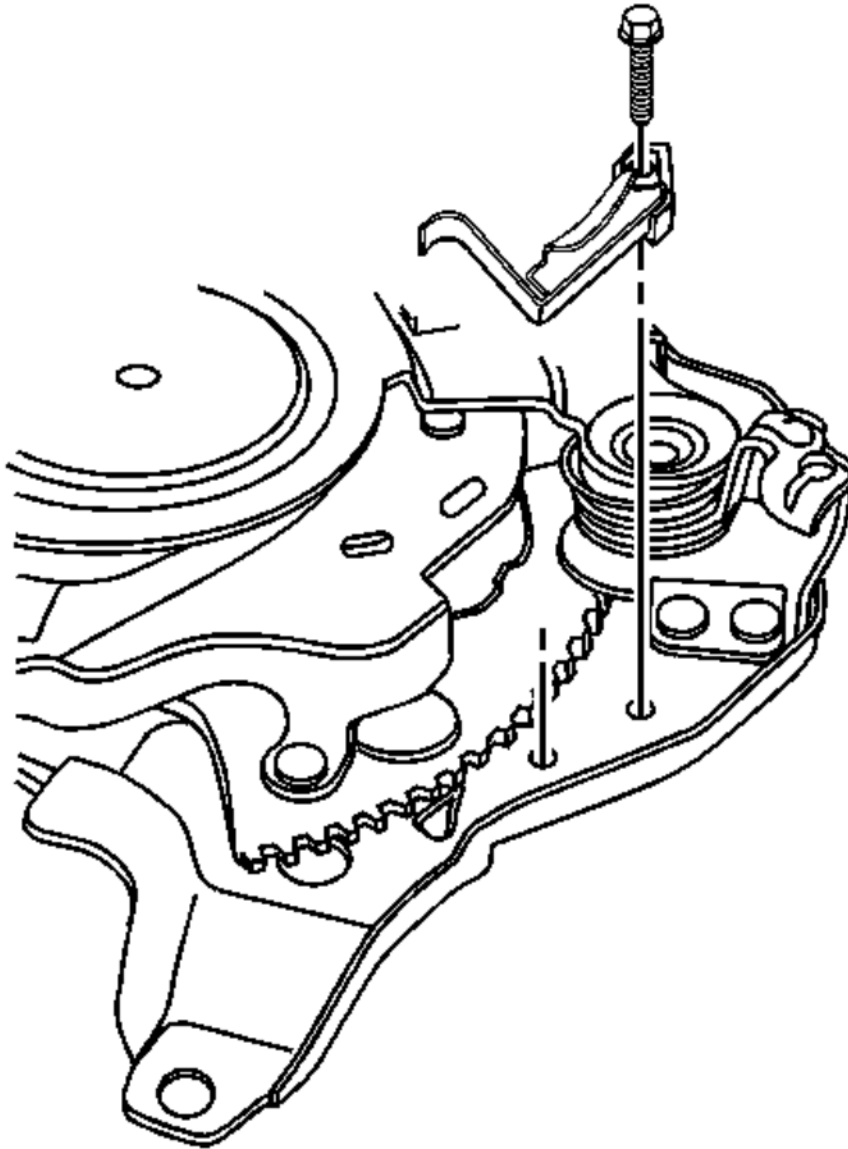


**Fig. 13: Park Brake Warning Lamp Switch Mounting Bolt**  
Courtesy of GENERAL MOTORS CORP.

1. Install the park brake warning lamp switch.

**NOTE:** Refer to Fastener Notice .

2. Install the park brake warning lamp switch bolt.

**Tighten:** Tighten the bolt to 3 N.m (27 lb in).

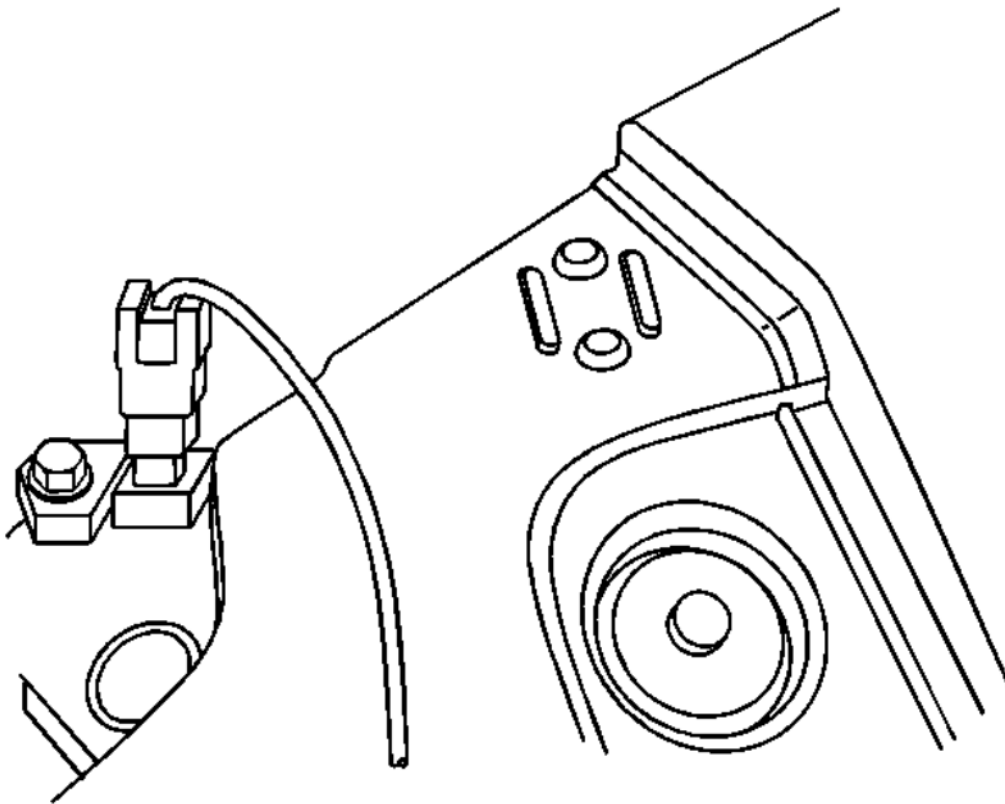


**Fig. 14: Park Brake Warning Lamp Switch Electrical Connector**  
Courtesy of GENERAL MOTORS CORP.

3. Connect the park brake warning lamp switch electrical connector.
4. Install the left side instrument panel electrical center/junction block. Refer to Instrument Panel Electrical Center or Junction Block Replacement - Left Side .
5. Connect the negative battery cable. Refer to Battery Negative Cable Disconnection and Connection (w/Single Battery) or Battery Negative Cable Disconnection and Connection (w/Auxiliary Battery) or Battery Negative Cable Disconnection and

**Connection (w/Dual Batteries) .**

**PARKING BRAKE INTERMEDIATE CABLE REPLACEMENT (JD9, JF3, JF7)**

**Removal Procedure**

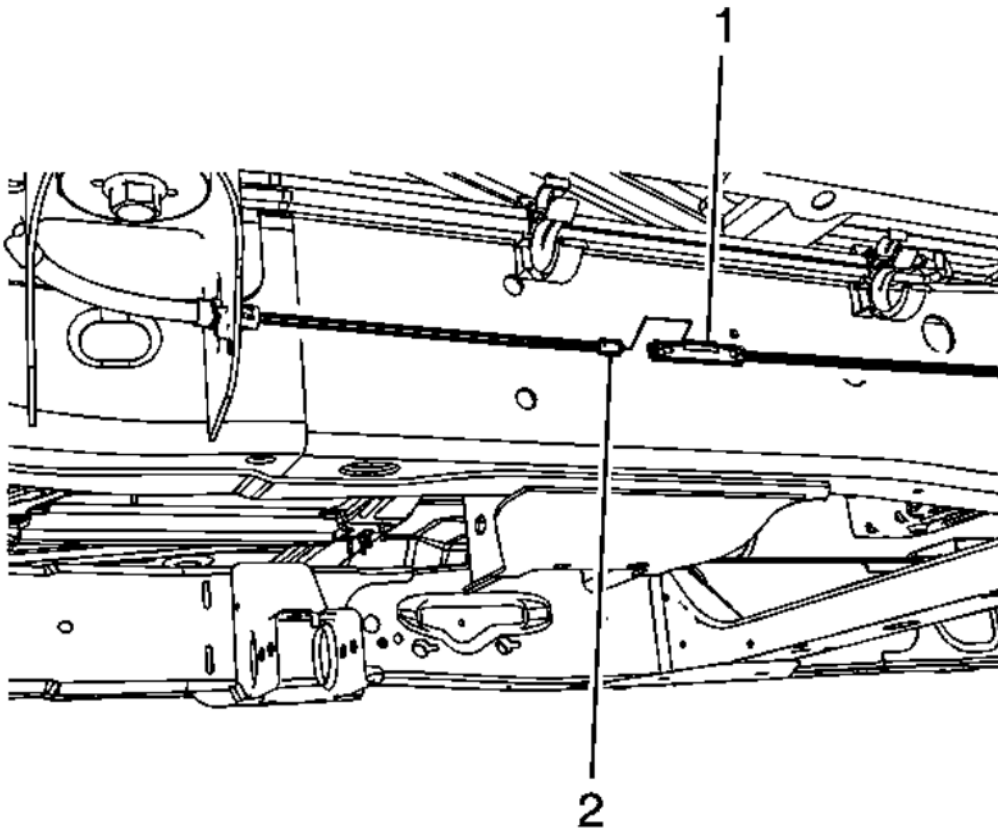


**Fig. 15: Park Brake Cable And Park Brake Cable Connector**  
**Courtesy of GENERAL MOTORS CORP.**

1. Release the park brake.
2. Disable the park brake cable automatic adjuster. Refer to **Parking Brake Cable Adjuster Disabling**.
3. Raise and support the vehicle. Refer to **Lifting and Jacking the Vehicle** .
4. Disconnect the front park brake cable (2) from the intermediate cable connector by drilling

a 3 mm (1/8 in) hole through the dimple in the front to intermediate park brake cable connector (1).

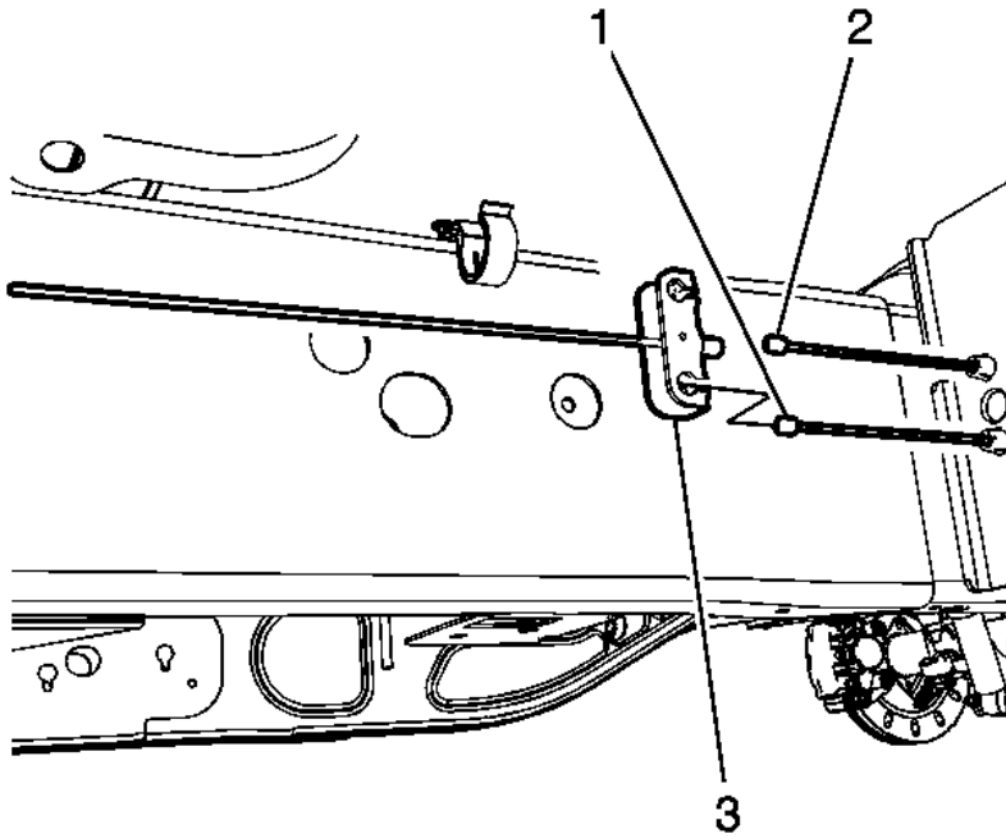


**Fig. 16: Park Brake Cable, Equalizer Bar And Intermediate Park Brake Cable**  
Courtesy of GENERAL MOTORS CORP.

5. Disconnect the left park brake cable (1) and the right park brake cable (2) from the equalizer bar (3) on the intermediate park brake cable.
6. Remove the intermediate park brake cable.

#### Installation Procedure

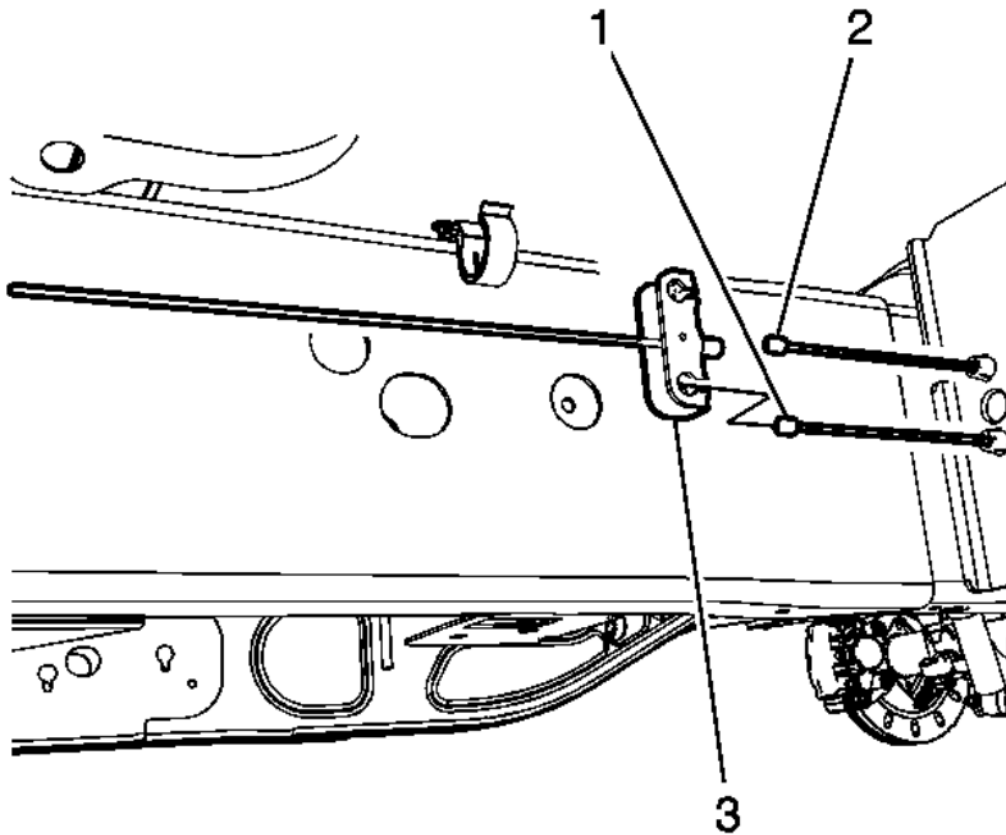


**Fig. 17: Park Brake Cable, Equalizer Bar And Intermediate Park Brake Cable**  
Courtesy of GENERAL MOTORS CORP.

1. Connect the left park brake cable (1) and the right park brake cable (2) to the equalizer bar (3) on the intermediate park brake cable.

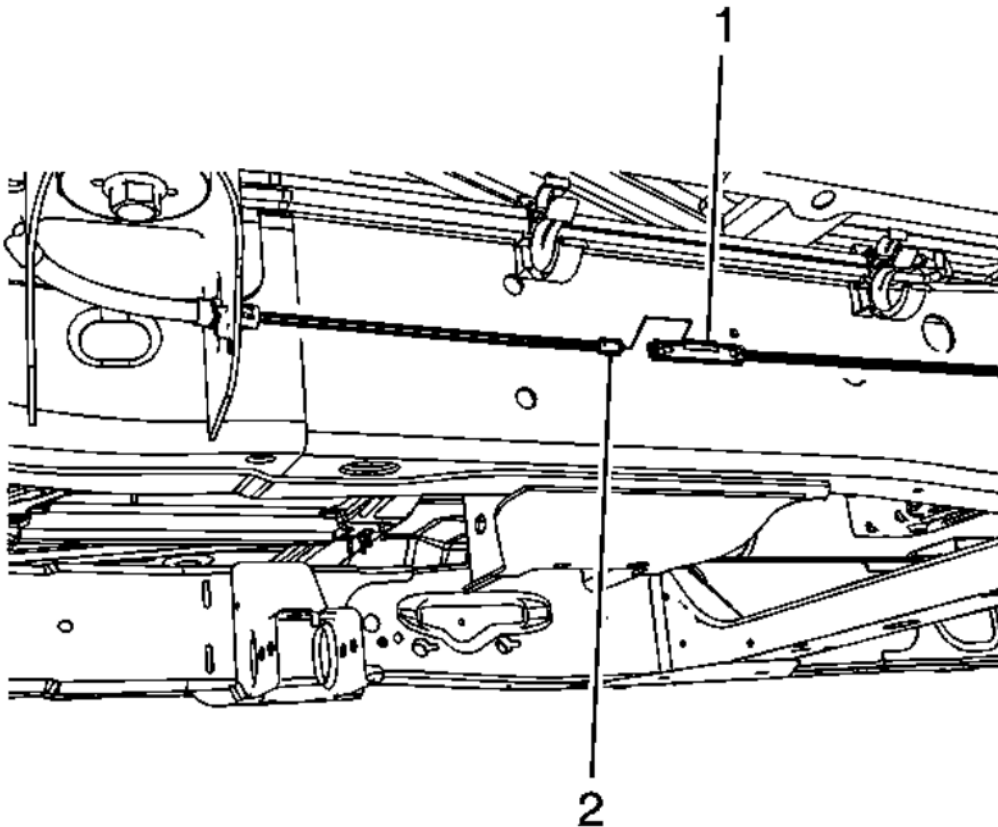


**Fig. 18: Park Brake Cable And Park Brake Cable Connector**  
Courtesy of GENERAL MOTORS CORP.

2. Connect the front park brake cable (2) to the intermediate cable connector.
3. Enable the park brake cable automatic adjuster. Refer to **Parking Brake Cable Adjuster Enabling**.
4. Adjust the park brake. Refer to **Park Brake Adjustment (Drum Brake)** or **Park Brake Adjustment (Disc Brake)**.

#### **PARKING BRAKE REAR CABLE REPLACEMENT - LEFT SIDE (JF3, JF7)**

##### **Tools Required**

**J 37043** Park Brake Cable Release Tool. See **Special Tools**.

## Removal Procedure

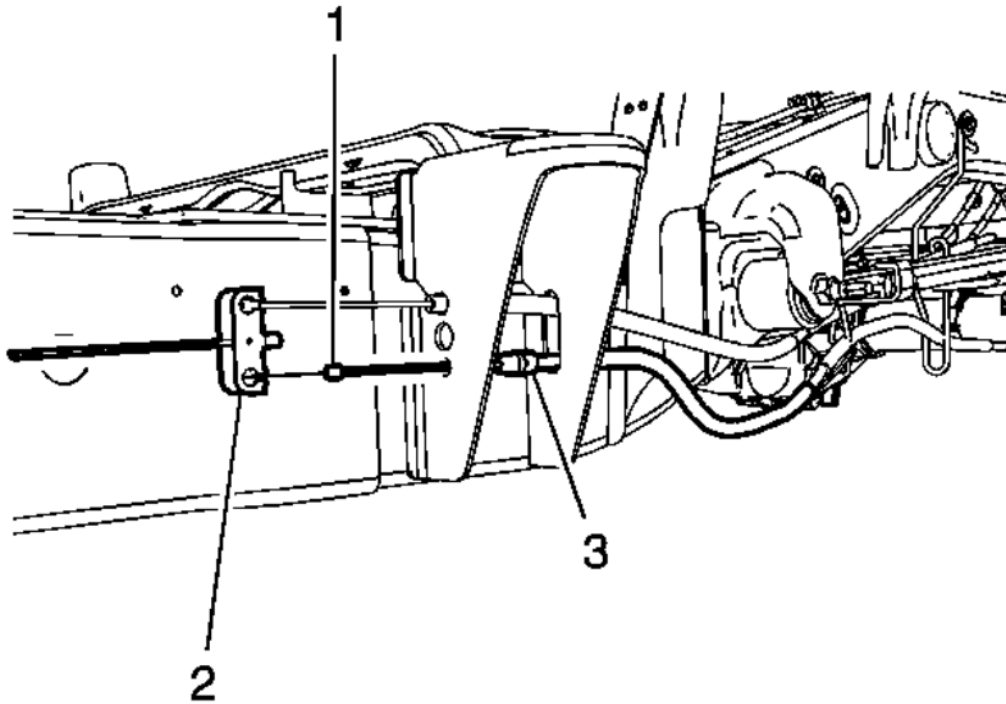


**Fig. 19: Park Brake Cable And Intermediate Cable Equalizer**  
**Courtesy of GENERAL MOTORS CORP.**

1. Release the park brake.
2. Disable the park brake cable automatic adjuster. Refer to **Parking Brake Cable Adjuster Disabling**.
3. Raise and support the vehicle. Refer to **Lifting and Jacking the Vehicle**.
4. Disconnect the left park brake cable (1) from the intermediate cable equalizer bar (2).
5. Release the left park brake cable from the frame bracket by compressing the locking tabs and pulling the cable conduit (3) rearward.
6. Remove the park brake cable from the cable guides.

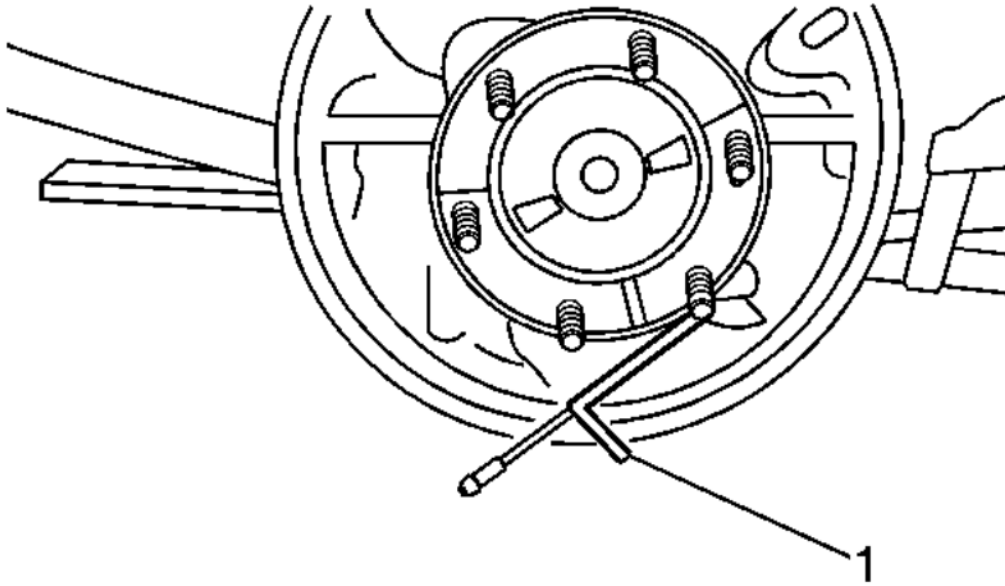


**Fig. 20: View Of J 37043**

Courtesy of GENERAL MOTORS CORP.

7. Remove the brake shoes. Refer to **Brake Shoe Replacement** .
8. Using the **J 37043** (1), remove the park brake cable from the backing plate. See **Special Tools**.

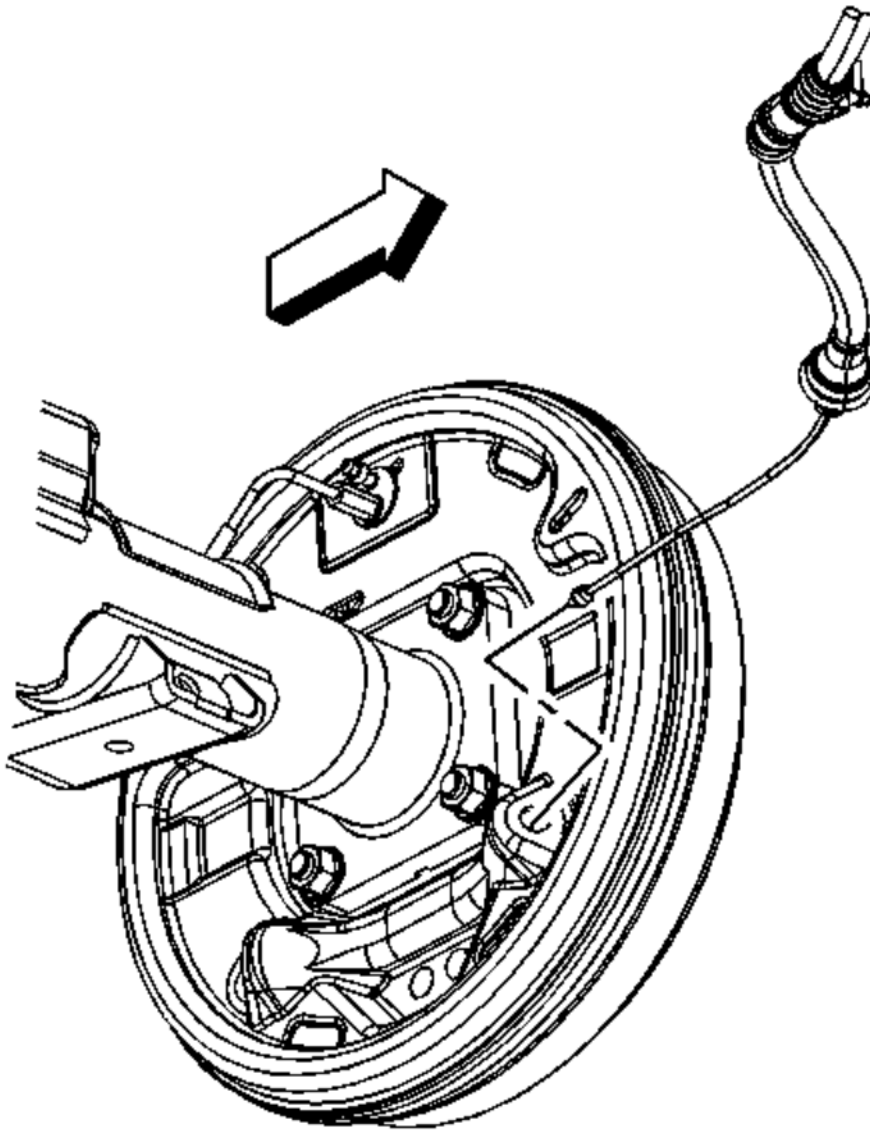


**Fig. 21: View Of Left Park Brake Cable**  
**Courtesy of GENERAL MOTORS CORP.**

9. Remove the park brake cable assembly from the vehicle.

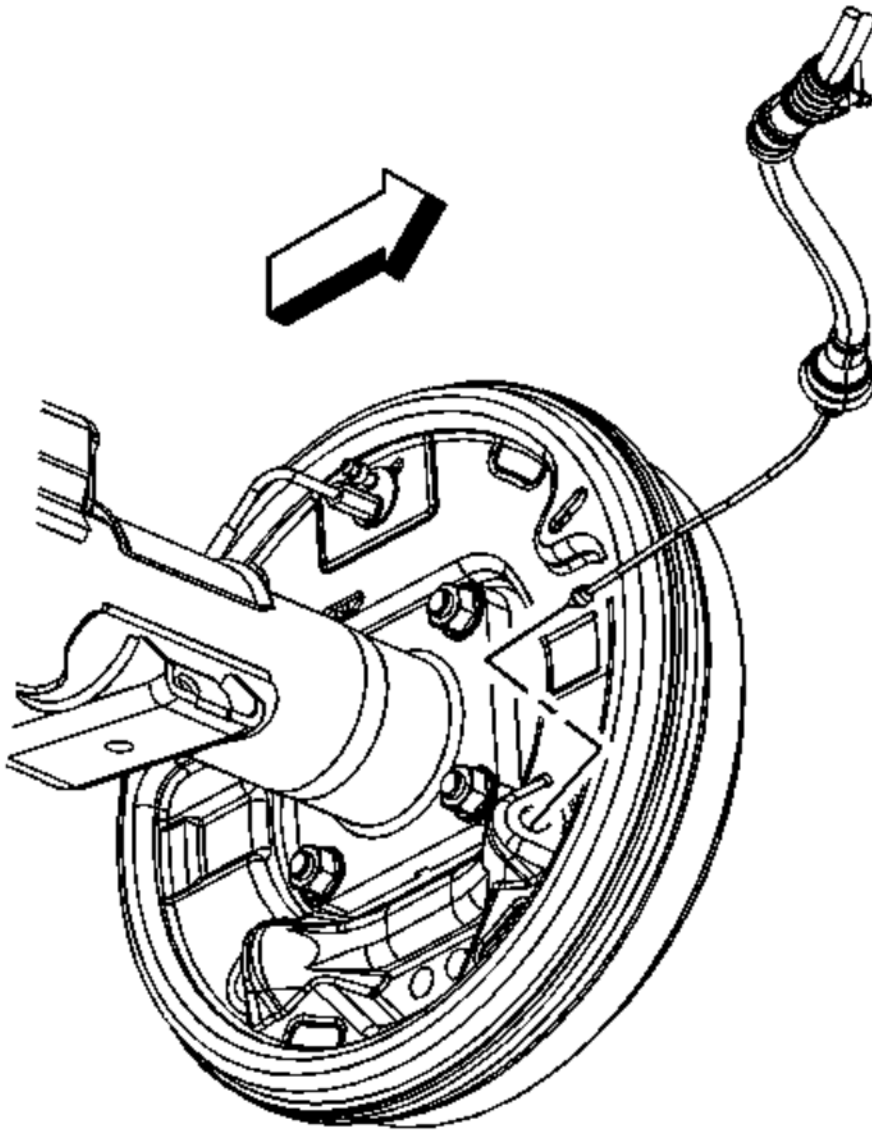


**Fig. 22: View Of Left Park Brake Cable**  
**Courtesy of GENERAL MOTORS CORP.**

1. Install the park brake cable assembly into the backing plate.
2. Install the brake shoes. Refer to **Brake Shoe Replacement** .
3. Install the park brake cable to the cable guides.

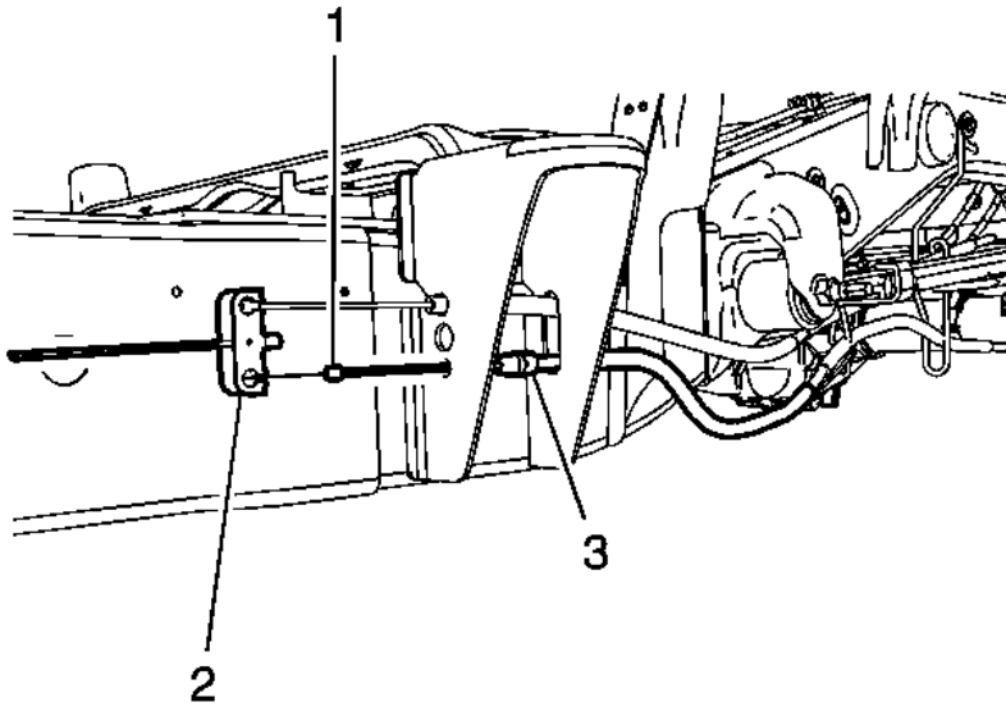


**Fig. 23: Park Brake Cable And Intermediate Cable Equalizer**  
Courtesy of GENERAL MOTORS CORP.

4. Connect the left rear park brake cable (1) to the intermediate cable equalizer bar (2).
5. Insert the park brake cable conduit (3) into the frame bracket.

Ensure the locking tabs on the cable conduit are fully engaged into the frame bracket.

6. Enable the park brake cable automatic adjuster. Refer to **Parking Brake Cable Adjuster Enabling**.
7. Adjust the park brake. Refer to **Park Brake Adjustment (Drum Brake)** or **Park Brake Adjustment (Disc Brake)**.

#### **PARKING BRAKE REAR CABLE REPLACEMENT - LEFT SIDE (JD9)**

##### **Removal Procedure**

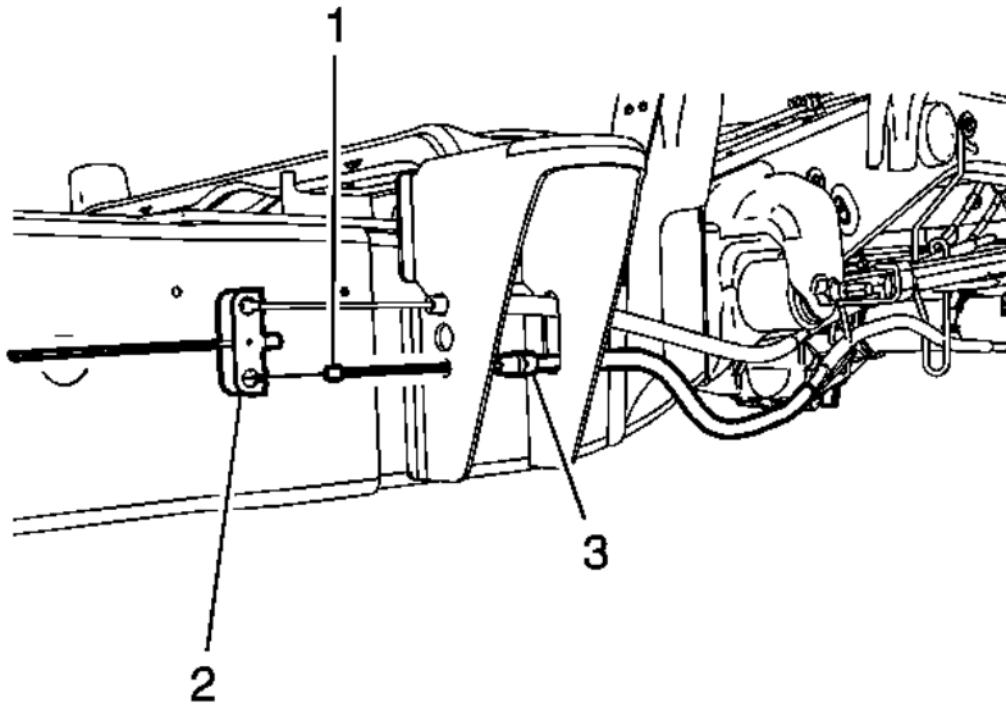


**Fig. 24: Park Brake Cable And Intermediate Cable Equalizer**  
Courtesy of GENERAL MOTORS CORP.

1. Release the park brake.
2. Disable the park brake cable automatic adjuster. Refer to **Parking Brake Cable Adjuster Disabling**.
3. Raise and support the vehicle. Refer to **Lifting and Jacking the Vehicle**.
4. Disconnect the left park brake cable (1) from the intermediate cable equalizer bar (2).
5. Release the left park brake cable from the frame bracket by compressing the locking tabs and pulling the cable conduit (3) rearward.

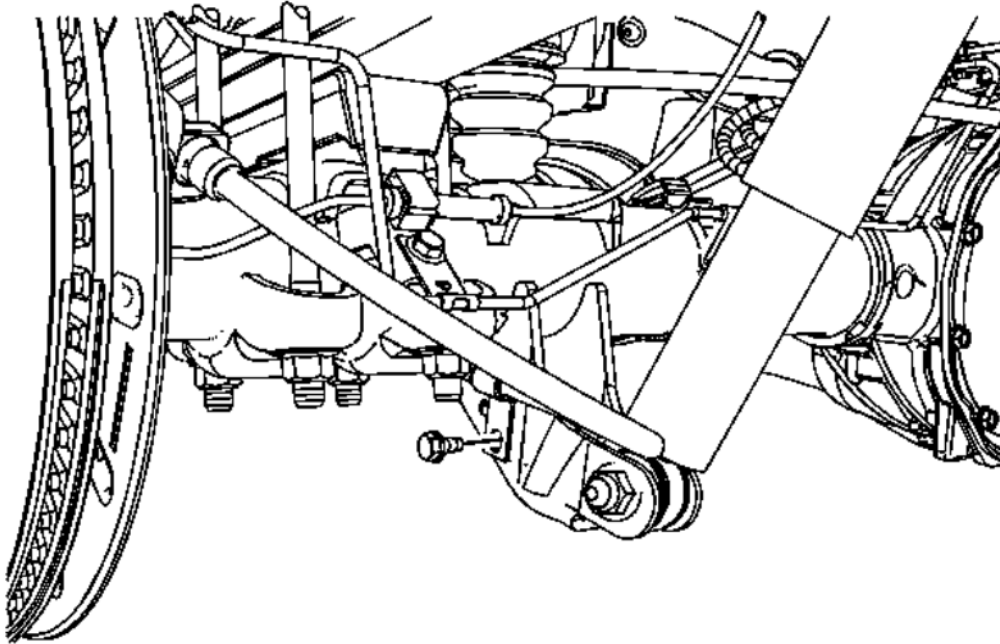


**Fig. 25: Park Brake Cable Clip Bolt**  
**Courtesy of GENERAL MOTORS CORP.**

6. Remove the park brake cable clip bolt.

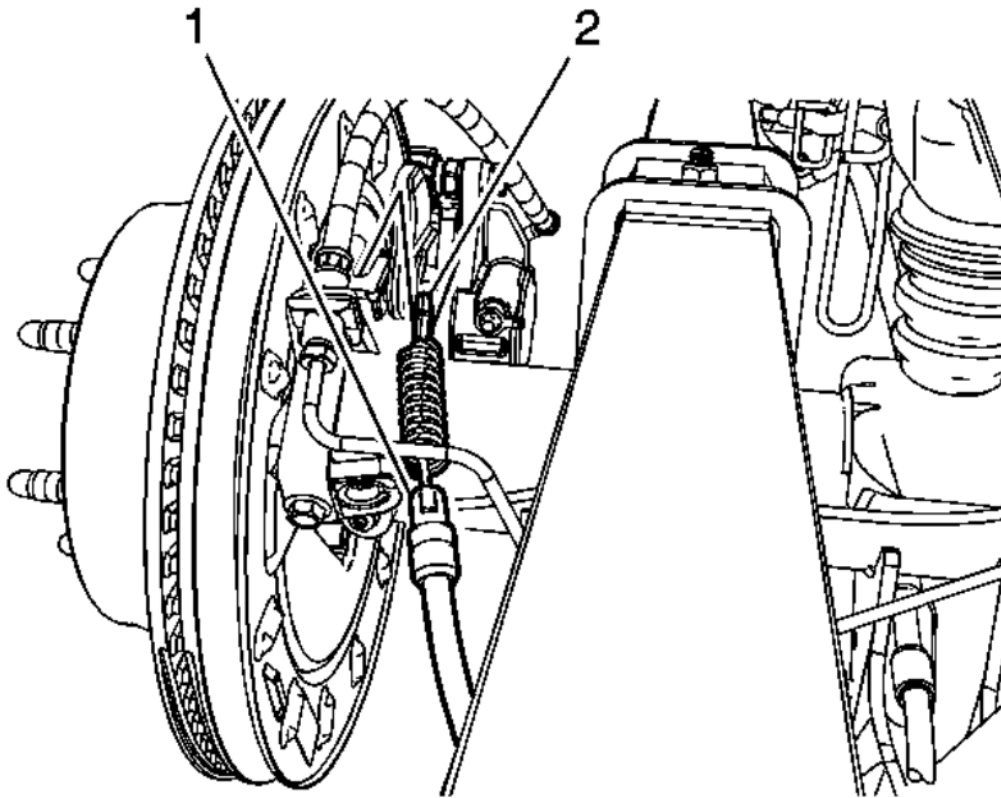


**Fig. 26: Brake Cable Conduit And Park Brake Cable Eye**  
Courtesy of GENERAL MOTORS CORP.

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

**Installation Procedure**

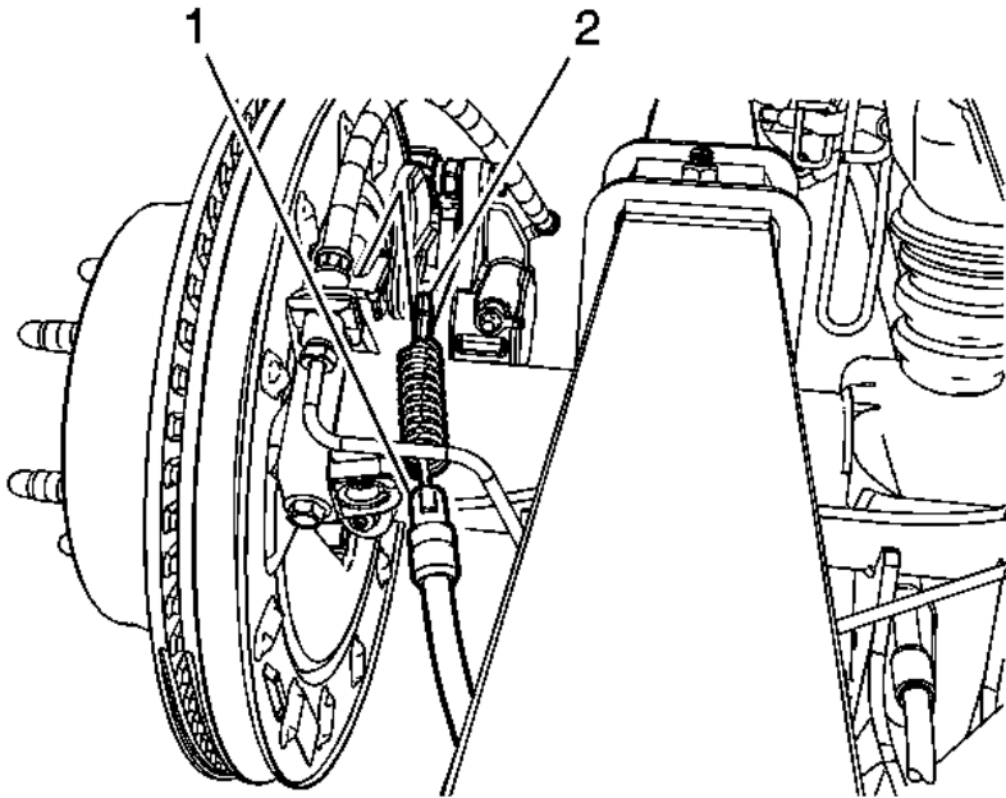


**Fig. 27: Brake Cable Conduit And Park Brake Cable Eye**  
Courtesy of GENERAL MOTORS CORP.

1. Connect the left park brake cable eye (2) to the park brake actuator lever.
2. 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.

Ensure the locking tabs on the cable conduit are fully engaged into the rear axle bracket.

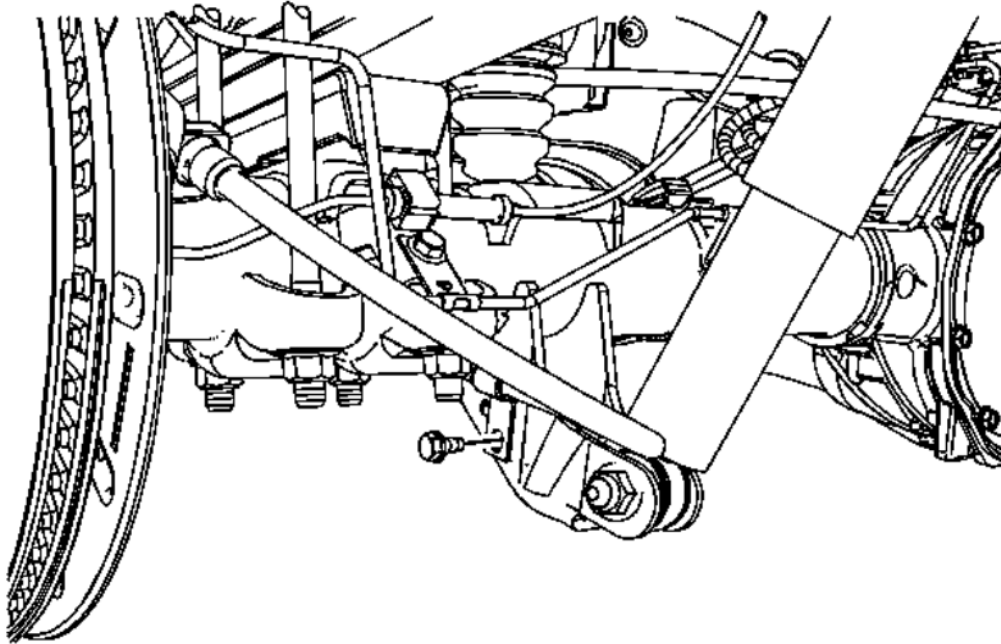


**Fig. 28: Park Brake Cable Clip Bolt**  
Courtesy of GENERAL MOTORS CORP.

**NOTE:** Refer to Fastener Notice .

3. Install the park brake cable clip bolt.

**Tighten:** Tighten the bolt to 22 N.m (16 lb ft).

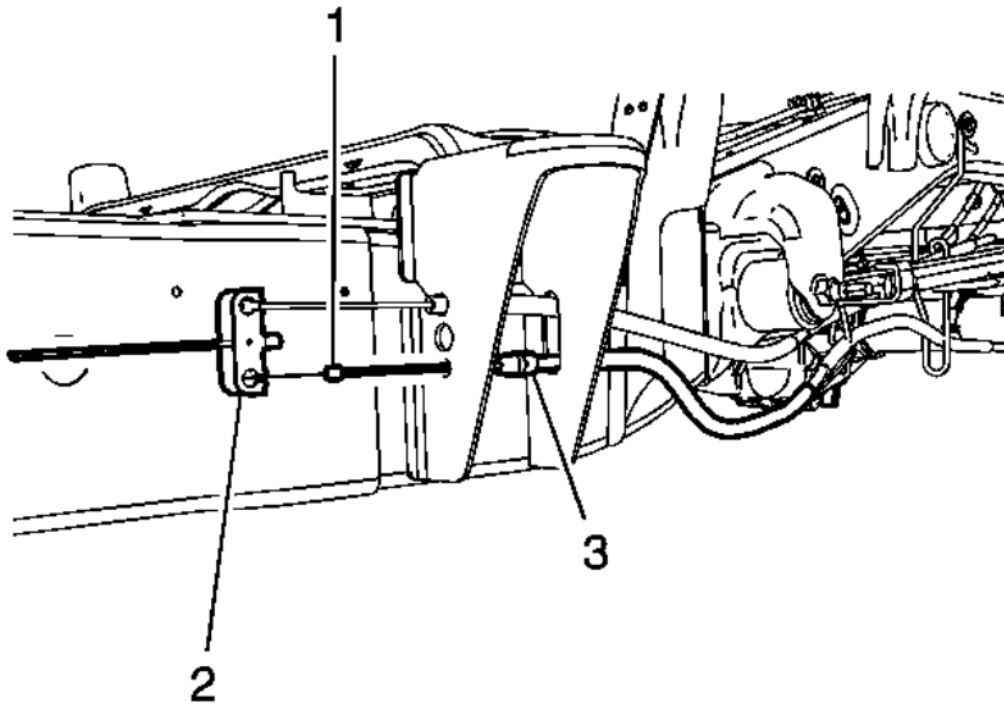


**Fig. 29: Park Brake Cable And Intermediate Cable Equalizer**  
Courtesy of GENERAL MOTORS CORP.

4. Connect the left rear park brake cable (1) to the intermediate cable equalizer bar (2).
5. Insert the park brake cable conduit (3) into the frame bracket.

Ensure the locking tabs on the cable conduit are fully engaged into the frame bracket.

6. Enable the park brake cable automatic adjuster. Refer to **Parking Brake Cable Adjuster Enabling**.
7. Adjust the park brake. Refer to **Park Brake Adjustment (Drum Brake)** or **Park Brake Adjustment (Disc Brake)**.

#### **PARKING BRAKE REAR CABLE REPLACEMENT - RIGHT SIDE (JF3, JF7)**

##### **Tools Required**

**J 37043** Park Brake Cable Release Tool. See **Special Tools**.

## Removal Procedure

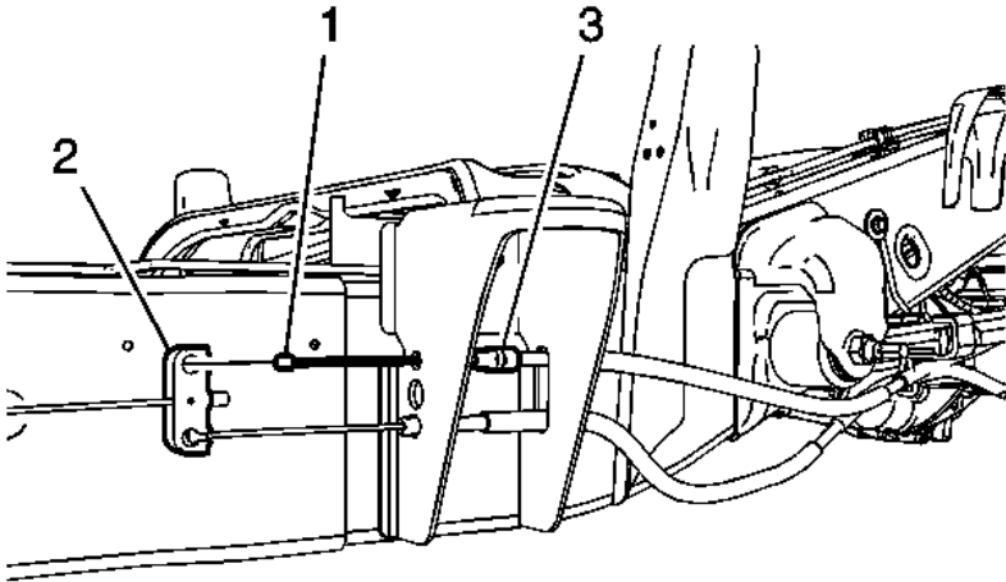


**Fig. 30: Park Brake Cable And Intermediate Cable Equalizer Bar**  
Courtesy of GENERAL MOTORS CORP.

1. Release the park brake.
2. Disable the park brake cable automatic adjuster. Refer to **Parking Brake Cable Adjuster Disabling**.
3. Raise and support the vehicle. Refer to **Lifting and Jacking the Vehicle** .
4. Disconnect the right park brake cable (1) from the intermediate cable equalizer bar (2).
5. Release the right park brake cable from the frame bracket by compressing the locking tabs and pulling the cable conduit (3) rearward.

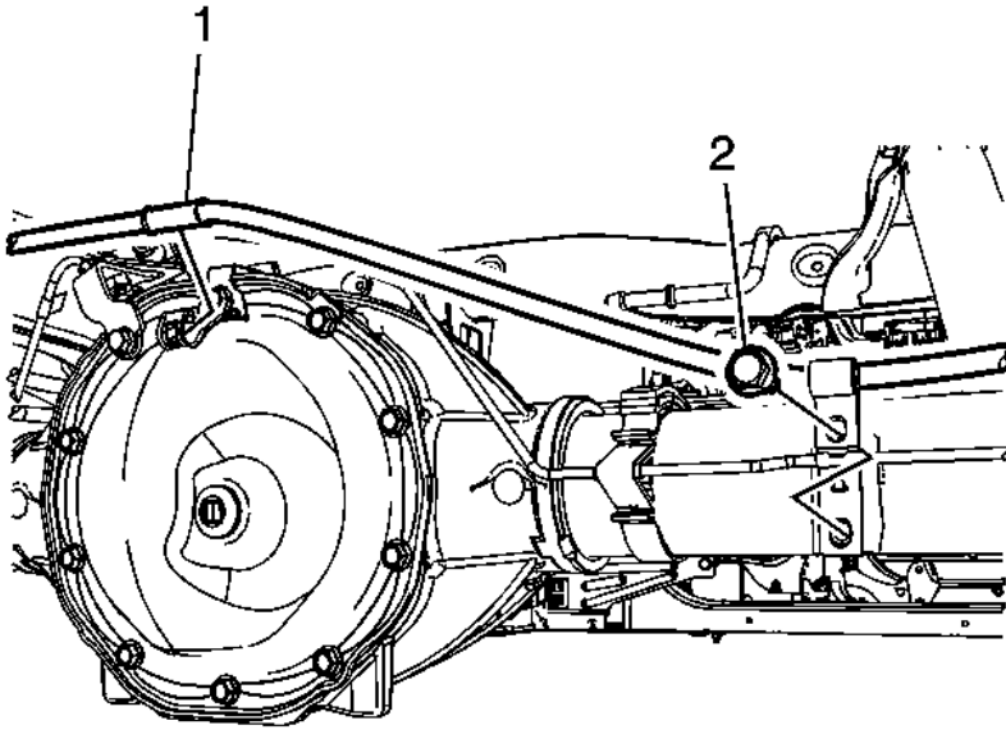


**Fig. 31: Park Brake Cable Mounting**  
Courtesy of GENERAL MOTORS CORP.

6. Release the park brake cable (1) from the rear axle housing cover clip.
7. Remove the park brake cable clip bolt (2).
8. Remove the park brake cable from the cable guides.
9. Remove the brake shoes. Refer to **Brake Shoe Replacement** .

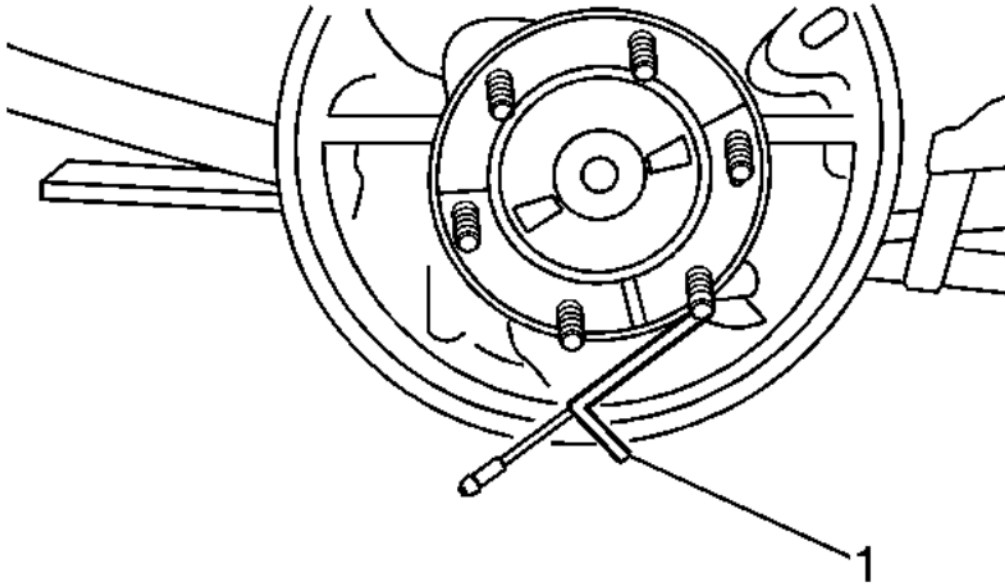


**Fig. 32: View Of J 37043**

Courtesy of GENERAL MOTORS CORP.

10. Using the **J 37043** (1), remove the park brake cable from the backing plate. See **Special Tools**.

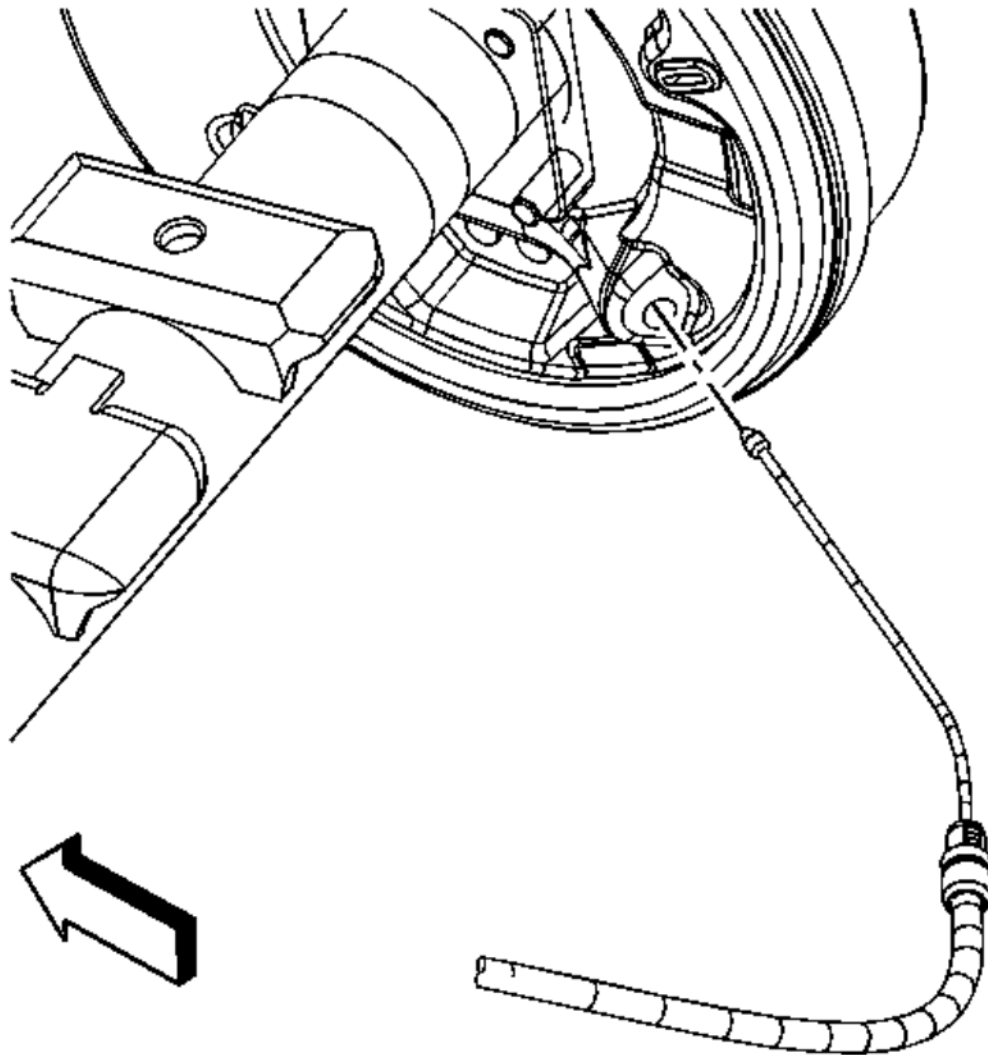


**Fig. 33: Park Brake Cable**  
**Courtesy of GENERAL MOTORS CORP.**

11. Remove the park brake cable from the vehicle.

**Installation Procedure**

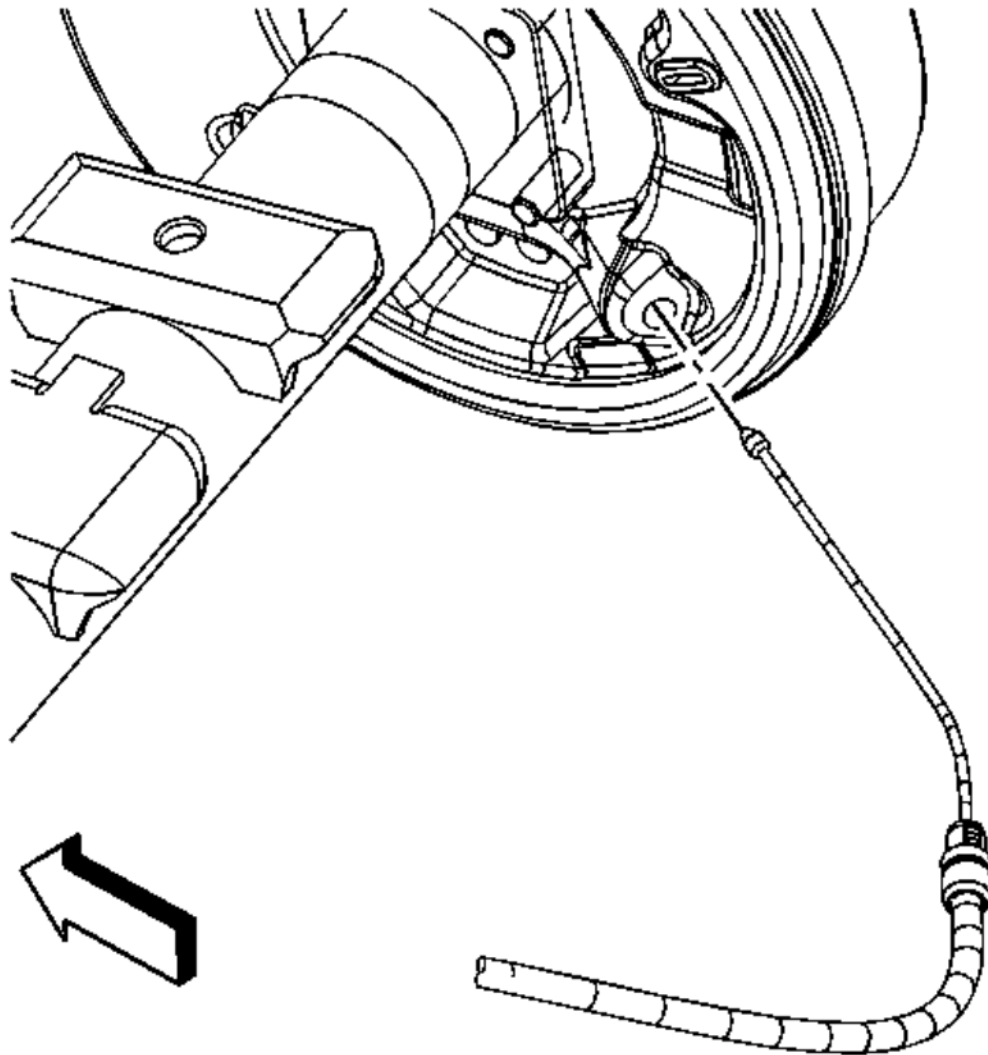


**Fig. 34: Park Brake Cable**  
**Courtesy of GENERAL MOTORS CORP.**

1. Install the park brake cable to the vehicle.
2. Install the brake shoes. Refer to **Brake Shoe Replacement** .

Ensure the locking tabs on the cable conduit are fully engaged into the rear axle bracket.

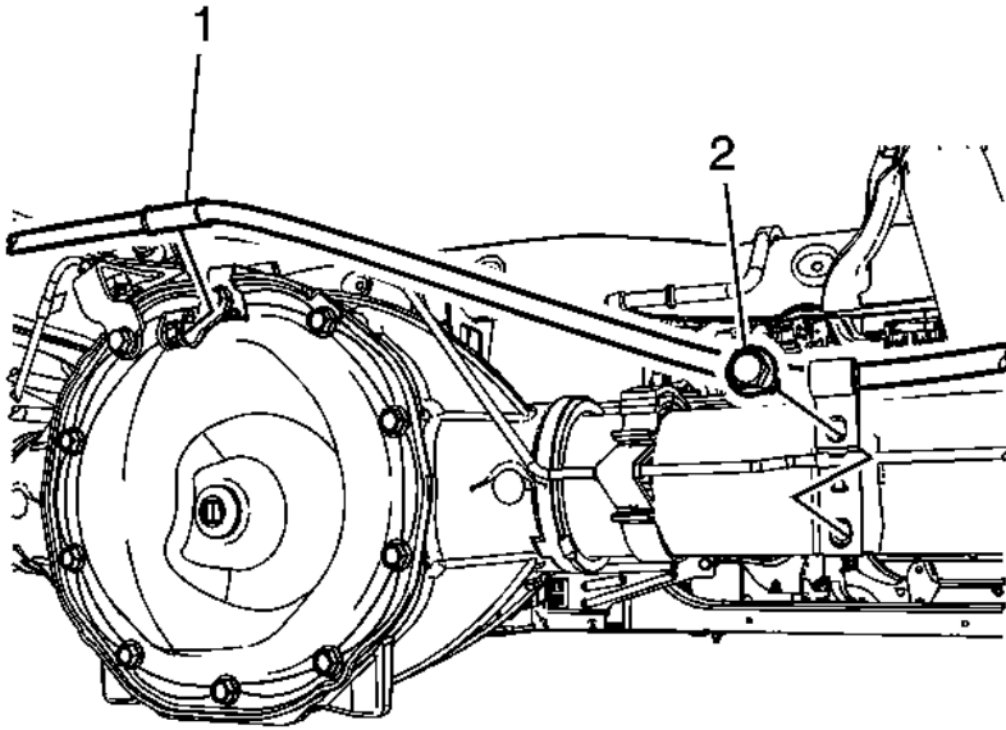


**Fig. 35: Park Brake Cable Mounting**  
Courtesy of GENERAL MOTORS CORP.

**NOTE:** Refer to Fastener Notice .

3. Install the park brake cable clip bolt (2).

**Tighten:** Tighten the bolt to 22 N.m (16 lb ft).

4. Connect the park brake cable (1) to the rear axle housing cover clip.
5. Install the park brake cable to the cable guides.

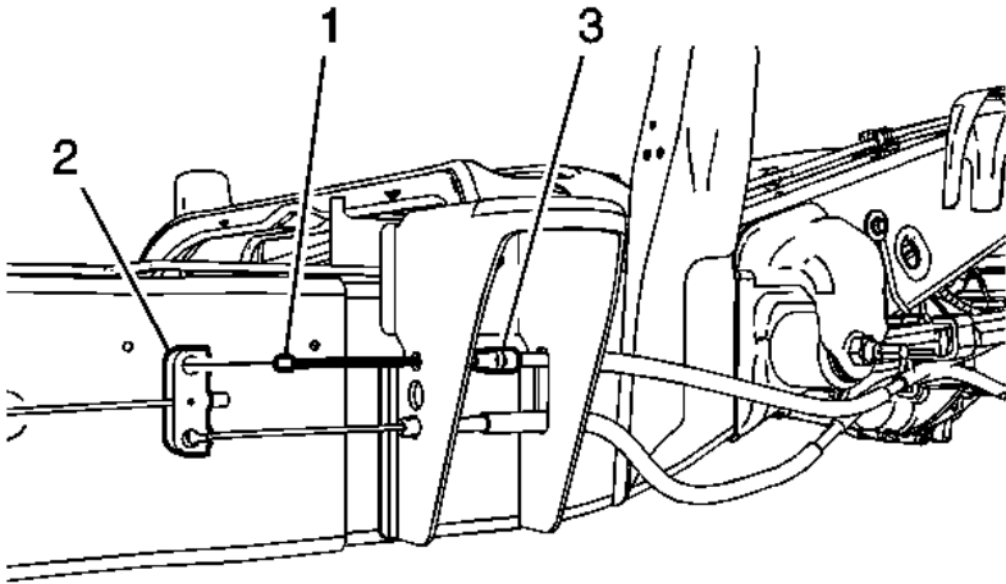


**Fig. 36: Park Brake Cable And Intermediate Cable Equalizer Bar**  
Courtesy of GENERAL MOTORS CORP.

6. Connect the right rear park brake cable (1) to the intermediate cable equalizer bar (2).
7. Insert the park brake cable conduit (3) into the frame bracket.

Ensure the locking tabs on the cable conduit are fully engaged into the frame bracket.

8. Enable the park brake cable automatic adjuster. Refer to **Parking Brake Cable Adjuster Enabling**.
9. Adjust the park brake. Refer to **Park Brake Adjustment (Drum Brake)** or **Park Brake Adjustment (Disc Brake)**.

#### **PARKING BRAKE REAR CABLE REPLACEMENT - RIGHT SIDE (JD9)**

##### **Removal Procedure**

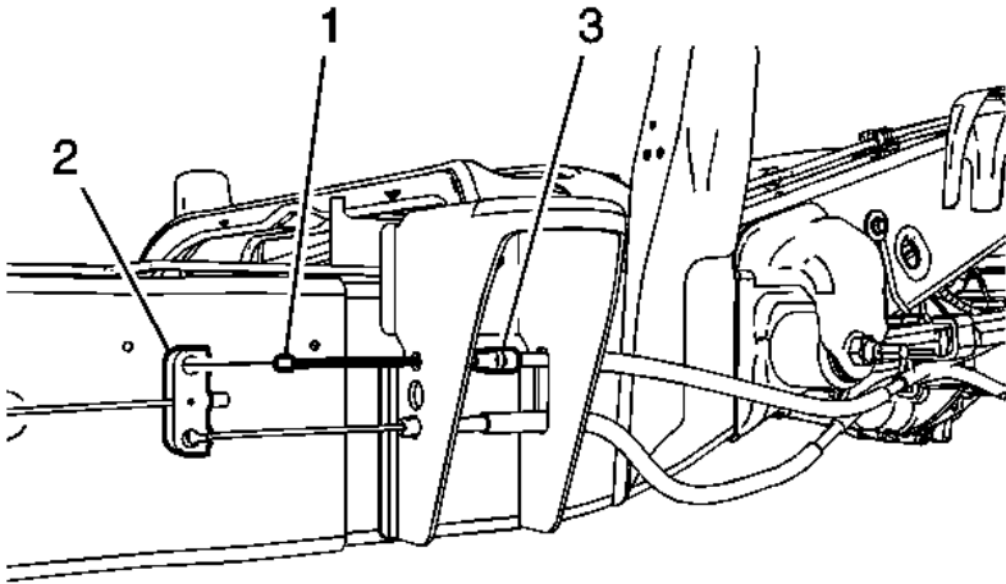


**Fig. 37: Park Brake Cable And Intermediate Cable Equalizer Bar**  
**Courtesy of GENERAL MOTORS CORP.**

1. Release the park brake.
2. Disable the park brake cable automatic adjuster. Refer to **Parking Brake Cable Adjuster Disabling**.
3. Raise and support the vehicle. Refer to **Lifting and Jacking the Vehicle** .
4. Disconnect the right park brake cable (1) from the intermediate cable equalizer bar (2).
5. Release the right park brake cable from the frame bracket by compressing the locking tabs and pulling the cable conduit (3) rearward.

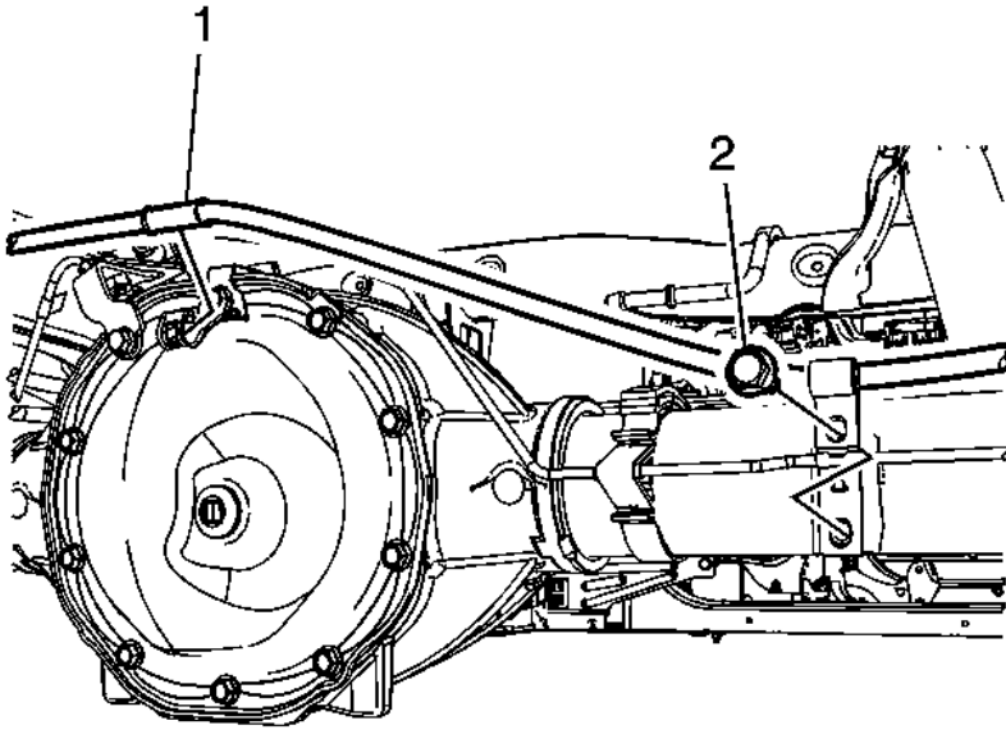


**Fig. 38: Park Brake Cable Mounting**  
**Courtesy of GENERAL MOTORS CORP.**

6. Release the park brake cable (1) from the rear axle housing cover clip.
7. Remove the park brake cable clip bolt (2).

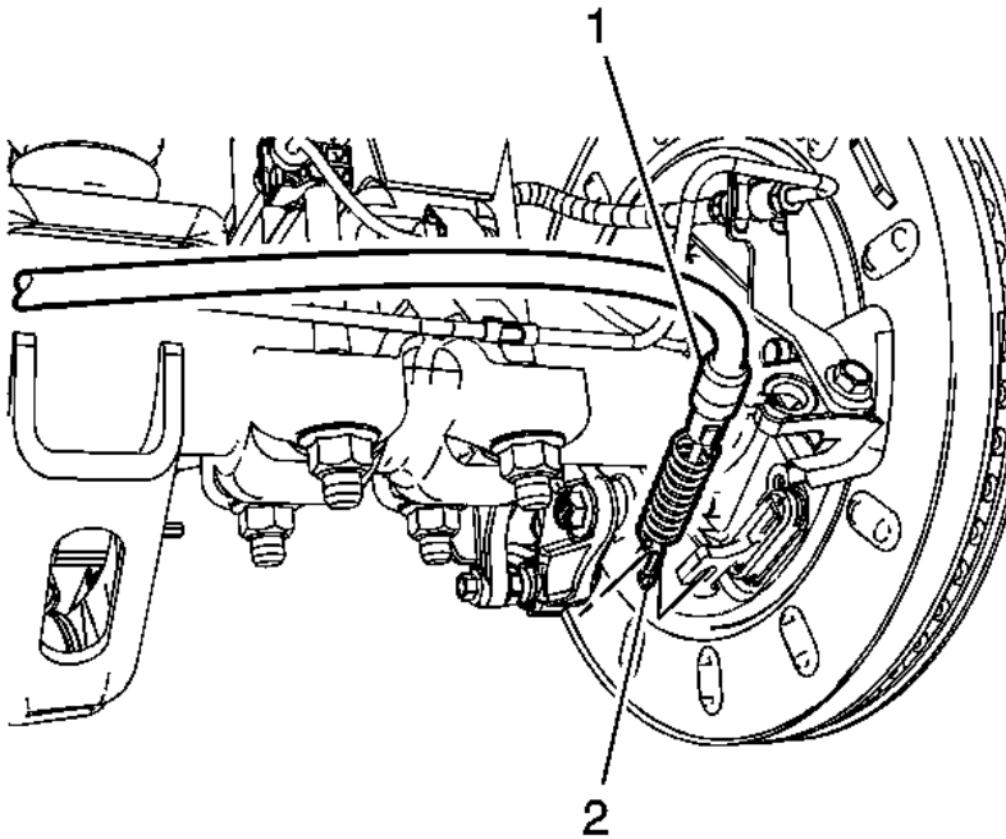


**Fig. 39: Park Brake Cable Conduit And Park Brake Cable Eye**  
**Courtesy of GENERAL MOTORS CORP.**

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

**Installation Procedure**

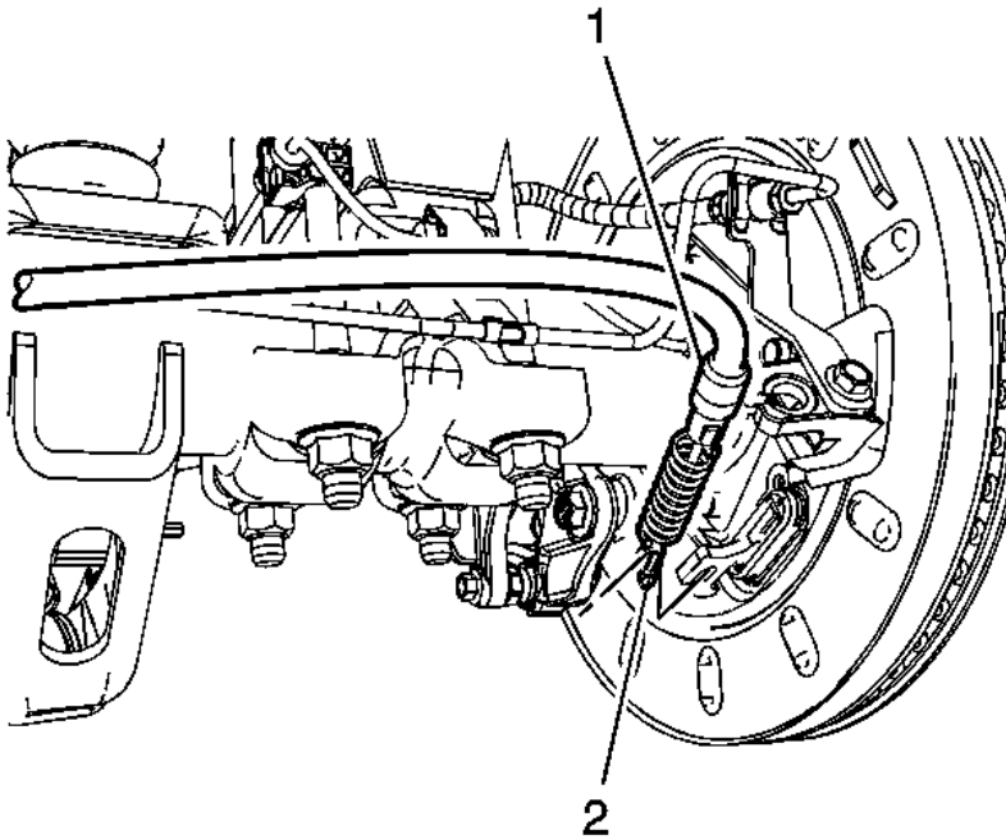


**Fig. 40: Park Brake Cable Conduit And Park Brake Cable Eye**  
**Courtesy of GENERAL MOTORS CORP.**

1. Connect the right park brake cable eye (2) to the park brake actuator lever.
2. 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.

Ensure the locking tabs on the cable conduit are fully engaged into the rear axle bracket.

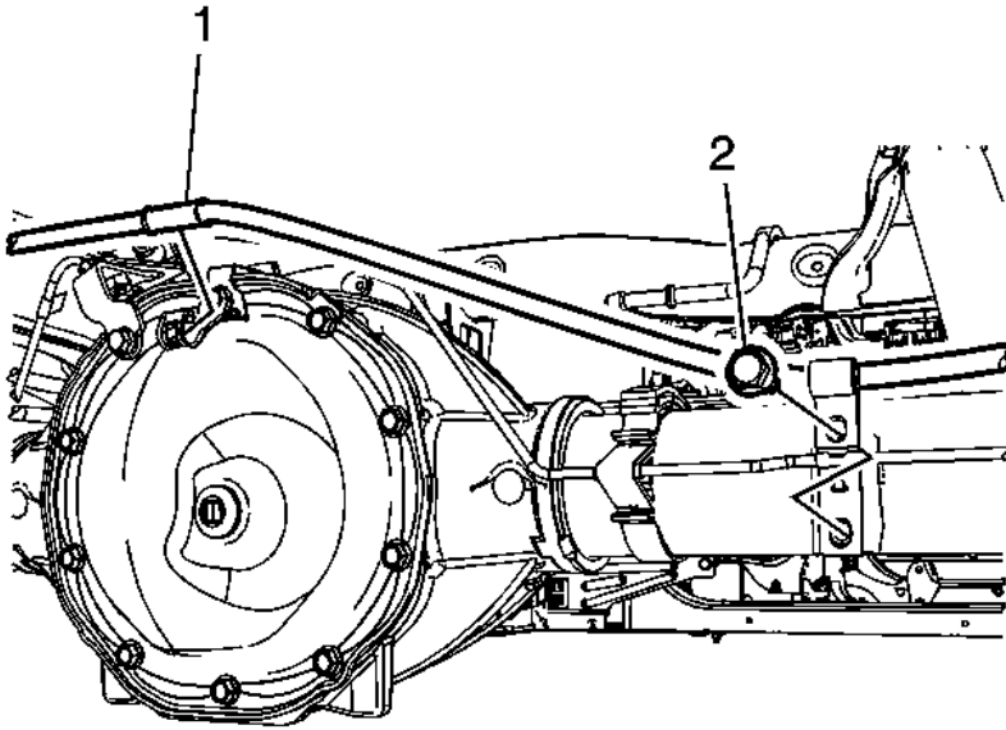


**Fig. 41: Park Brake Cable Mounting**  
Courtesy of GENERAL MOTORS CORP.

**NOTE:** Refer to Fastener Notice .

3. Install the park brake cable clip bolt (2).

**Tighten:** Tighten the bolt to 22 N.m (16 lb ft).

4. Connect the park brake cable (1) to the rear axle housing cover clip.

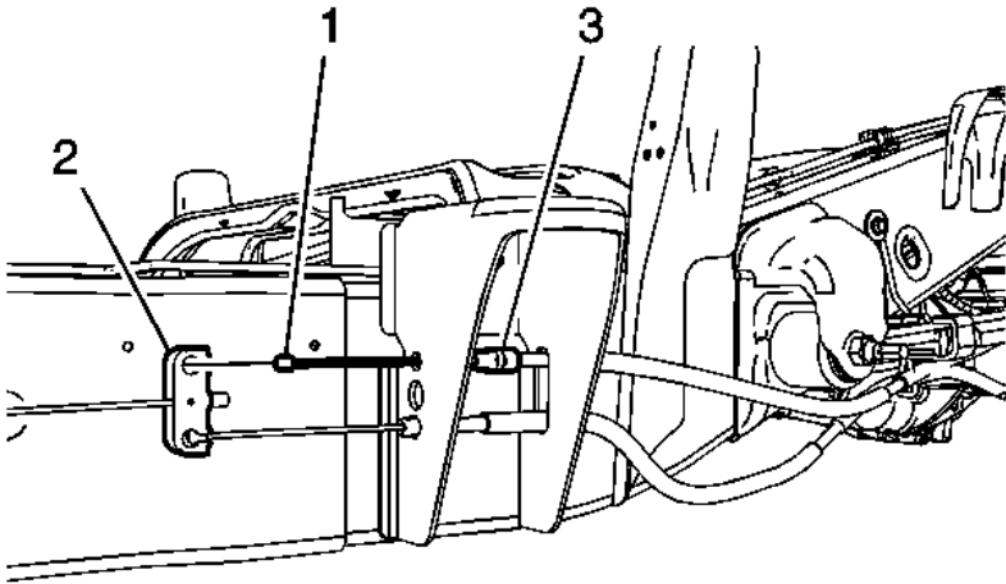


**Fig. 42: Park Brake Cable And Intermediate Cable Equalizer Bar**  
Courtesy of GENERAL MOTORS CORP.

5. Connect the right rear park brake cable (1) to the intermediate cable equalizer bar (2).
6. Insert the park brake cable conduit (3) into the frame bracket.

Ensure the locking tabs on the cable conduit are fully engaged into the frame bracket.

7. Enable the park brake cable automatic adjuster. Refer to **Parking Brake Cable Adjuster Enabling**.
8. Adjust the park brake. Refer to **Park Brake Adjustment (Drum Brake)** or **Park Brake Adjustment (Disc Brake)**.

## PARK BRAKE CABLE GUIDE REPLACEMENT

### Removal Procedure

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

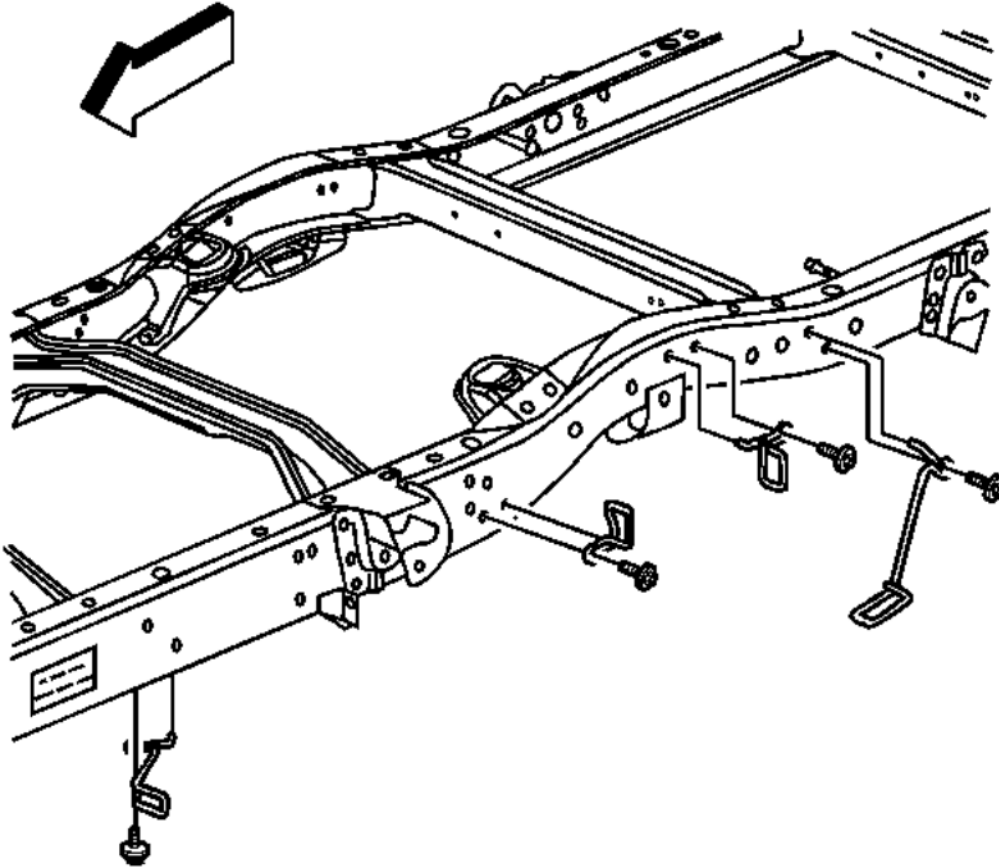


**Fig. 43: View Of Park Brake Cable Guide Bolt (Cutaway Vehicle)**  
**Courtesy of GENERAL MOTORS CORP.**

3. Remove the park brake cable guide bolt from the frame.
4. Remove the park brake cable guide.
5. Remove the park brake cable guide from the park brake cable.

**Installation Procedure**

1. Install the park brake cable guide to the park brake cable.
2. Install the park brake cable guide.

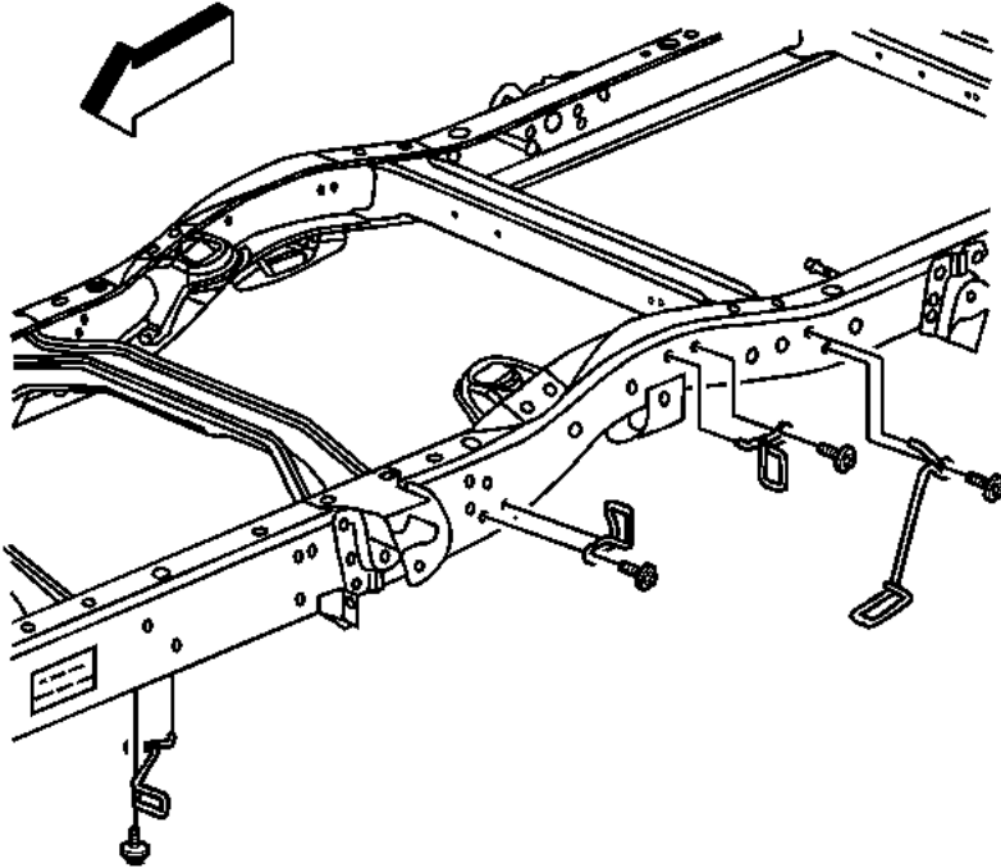


**Fig. 44: View Of Park Brake Cable Guide Bolt (Cutaway Vehicle)**  
Courtesy of GENERAL MOTORS CORP.

**NOTE:** Refer to Fastener Notice .

3. Install the park brake cable guide bolt to the frame.

**Tighten:** Tighten the bolt to 12 N.m (106 lb in).

4. Lower the vehicle.

#### **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.

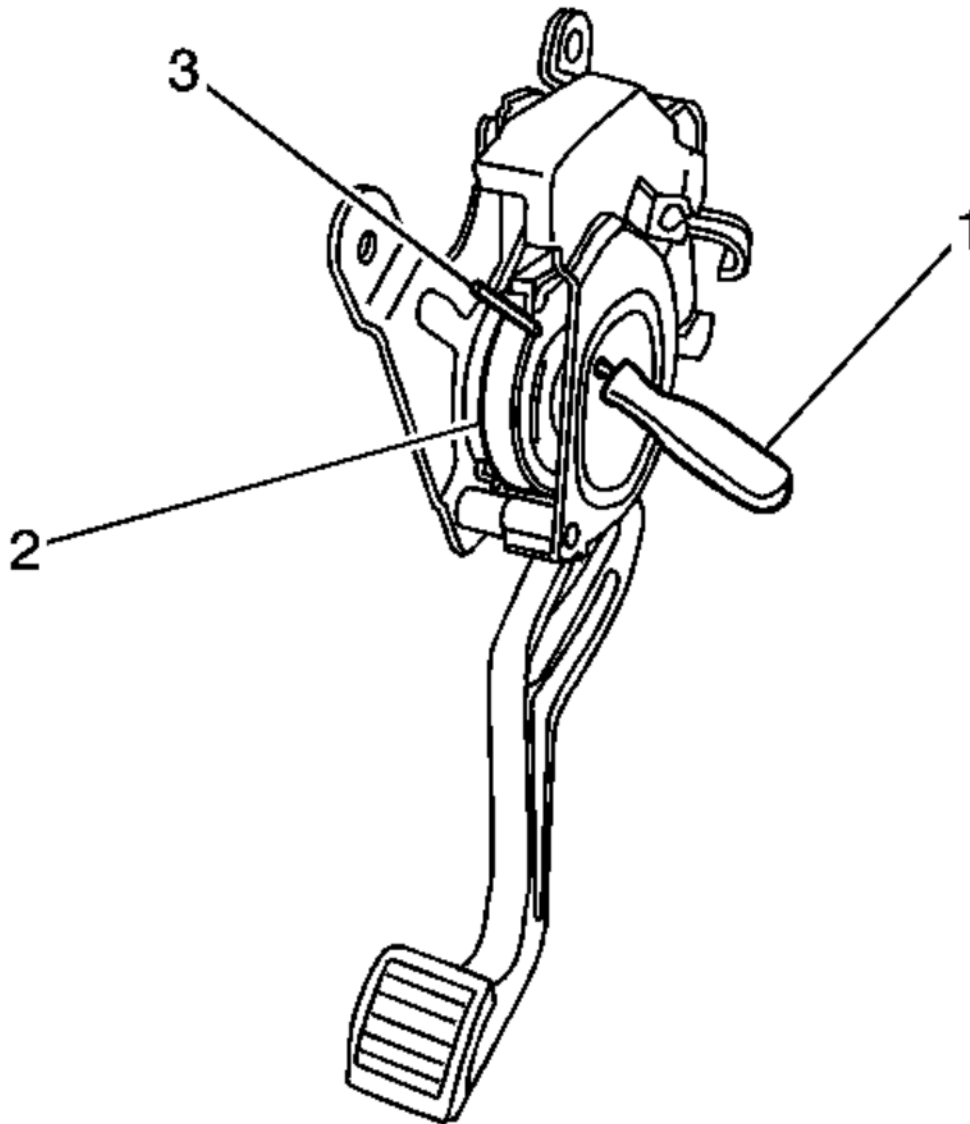


**Fig. 45: Screwdriver, Pedal Drum & Pedal Assembly**  
**Courtesy of GENERAL MOTORS CORP.**

## 2008 Chevrolet Silverado 1500

2008 BRAKES Park Brake - Cab & Chassis Sierra, Cab & Chassis Silverado, Sierra & Silverado

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.

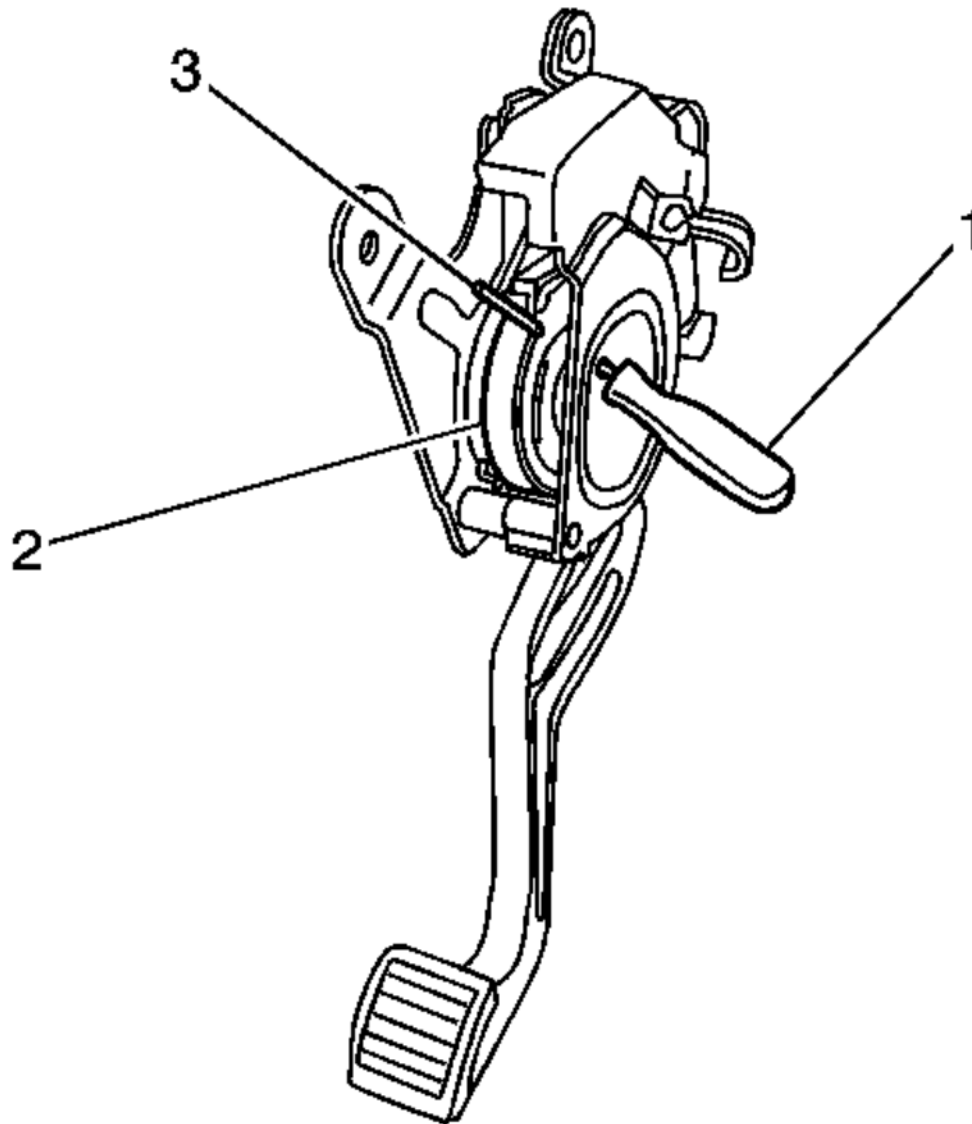


**Fig. 46: Screwdriver, Pedal Drum & Pedal Assembly**  
**Courtesy of GENERAL MOTORS CORP.**

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.

#### PARKING BRAKE ACTUATOR REPLACEMENT (JD9)

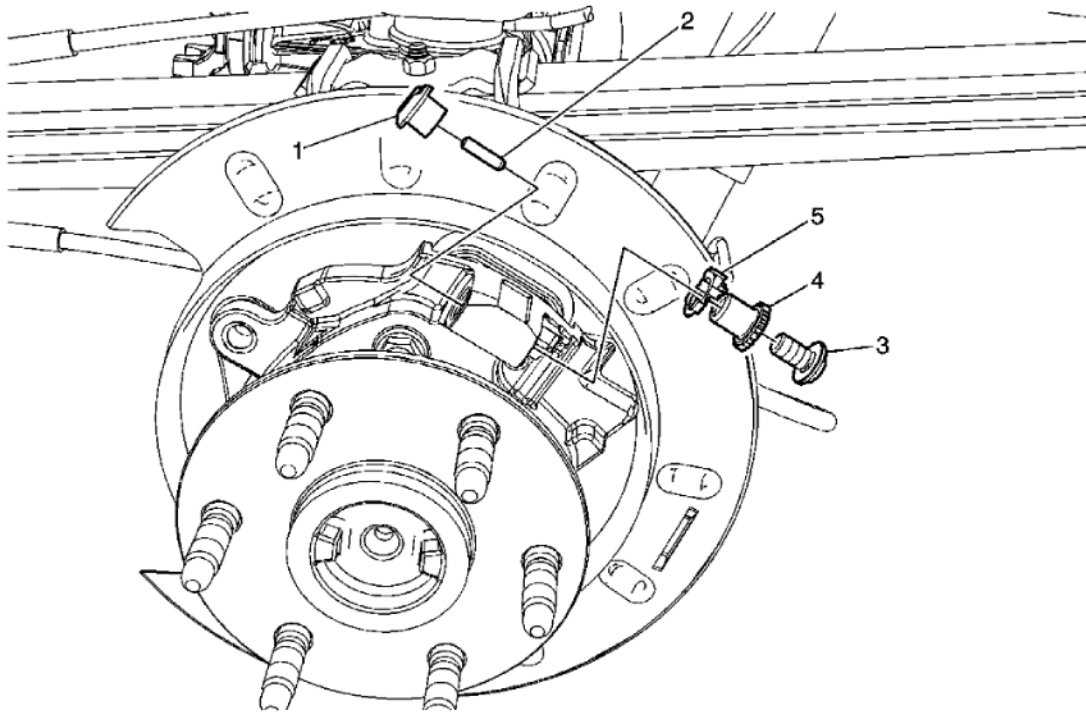


**Fig. 47: View Of Parking Brake Actuator (JD9)**  
Courtesy of GENERAL MOTORS CORP.

| Callout                                                                                                      | Component Name |
|--------------------------------------------------------------------------------------------------------------|----------------|
| <b>CAUTION:</b><br>Refer to <u>Brake Dust Caution</u> .                                                      |                |
| <b>Preliminary Procedures</b>                                                                                |                |
| 1. Disable the park brake cable automatic adjuster. Refer to <u>Parking Brake Cable Adjuster Disabling</u> . |                |
| 2. Raise and support the vehicle. Refer to <u>Lifting and Jacking the Vehicle</u> .                          |                |
| 3. Remove the park brake shoe. Refer to <u>Parking Brake Shoe Replacement (JD9)</u> or                       |                |

## 2008 Chevrolet Silverado 1500

2008 BRAKES Park Brake - Cab & Chassis Sierra, Cab & Chassis Silverado, Sierra & Silverado

### **Parking Brake Shoe Replacement (JH6, JH7).**

4. Disconnect the park brake cable from the actuator lever.

- |   |                                    |
|---|------------------------------------|
| 1 | Park Brake Shoe Actuator           |
| 2 | Park Brake Actuator Lever Push Rod |
| 3 | Park Brake Actuator Adjuster Screw |
| 4 | Park Brake Lever Release Pawl      |

Park Brake Actuator Return Spring

#### **Procedure**

- |   |                                                                                                                                                                                                                                                                                                                                                                                                          |
|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5 | <ol style="list-style-type: none"><li>1. Rotate the park brake adjuster screw until the adjuster is fully retracted.</li><li>2. Enable the park brake cable automatic adjuster. Refer to <b><u>Parking Brake Cable Adjuster Enabling</u></b>.</li><li>3. Adjust the park brake. Refer to <b><u>Park Brake Adjustment (Drum Brake)</u></b> or <b><u>Park Brake Adjustment (Disc Brake)</u></b>.</li></ol> |
|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### **PARK BRAKE BACKING PLATE REPLACEMENT**

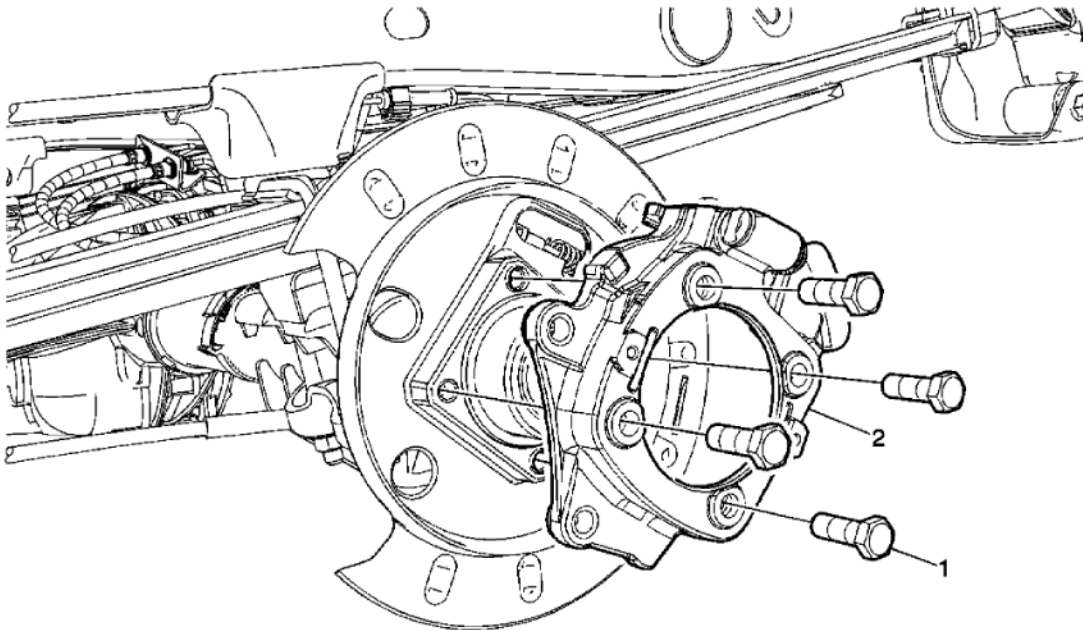


**Fig. 48: View Of Park Brake Backing Plate**  
Courtesy of GENERAL MOTORS CORP.

Callout

Component Name

**CAUTION:**

Refer to Brake Dust Caution .

**Preliminary Procedures**

1. Disable the park brake cable automatic adjuster. Refer to Parking Brake Cable Adjuster Disabling.
2. Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle .
3. Remove the park brake shoe. Refer to Parking Brake Shoe Replacement (JD9) or Parking Brake Shoe Replacement (JH6, JH7).
4. Remove the rear axle shaft. Refer to Rear Axle Shaft Replacement (8.6 Inch Axle w/Drum Brake w/VSES) or Rear Axle Shaft Replacement (8.6 Inch Axle w/Drum Brakes w/o VSES) or Rear Axle Shaft Replacement (8.6, 9.5 Inch Axles w/VSES) .
5. Disconnect the park brake cable from the actuator lever.

Park Brake Backing Plate Bolt (Qty: 4)

**NOTE:**

Refer to Fastener Notice .

**Procedure**

- |   |                                                                                                                                                                                                                                                                                                                                                                           |
|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | <ol style="list-style-type: none"> <li>1. Remove all traces of the adhesive patch on the park brake backing plate bolts.</li> <li>2. Clean the park brake backing plate bolt threads with denatured alcohol or equivalent and allow to dry.</li> <li>3. Apply threadlocker GM P/N 12345493 (Canadian P/N 10953488) to 2/3 of the threaded portion of the bolt.</li> </ol> |
|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Tighten:** 135 N.m (100 lb ft)

Park Brake Backing Plate

**Procedure**

- |   |                                                                                                                                                                                                                                                   |
|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2 | <ol style="list-style-type: none"> <li>1. Remove all traces of the adhesive patch in the rear axle flange threaded holes.</li> <li>2. Clean the rear axle flange threaded holes with denatured alcohol or equivalent and allow to dry.</li> </ol> |
|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

3. Enable the park brake cable automatic adjuster. Refer to **Parking Brake Cable Adjuster Enabling**.
4. Adjust the park brake. Refer to **Park Brake Adjustment (Drum Brake)** or **Park Brake Adjustment (Disc Brake)**.

## PARK BRAKE ADJUSTMENT (DRUM BRAKE)

**IMPORTANT:** This vehicle utilizes a self-tensioning, or self-adjusting park brake cable system. The park brake system does not require adjustment under normal operating conditions. The tension on the park brake cables can be disabled and enabled when necessary during service of the drum brakes and/or the park brake system.

**CAUTION:** Refer to **Brake Dust Caution** .

1. Apply and fully release the park brake several times. Verify that the park brake pedal releases completely.
2. Turn ON the ignition. 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 is no slack in the park brake cables.
4. If the red BRAKE warning lamp remained illuminated and there were no other visible causes, Refer to **Symptoms - Hydraulic Brakes** .
5. Turn OFF the ignition.
6. Raise and support the vehicle just enough to allow the rear tires and wheel assembly removal and rear brake drum adjustment. Refer to **Lifting and Jacking the Vehicle** .
7. Remove the rear tire and wheel assemblies. Refer to **Tire and Wheel Removal and Installation** .
8. Adjust the rear drum brakes. Refer to **Drum Brake Adjustment** .
9. Ensure there is no brake shoe drag after adjustment by rotating the brake drums. If drag exists, re-center the brake shoes and perform the brake shoe adjustment again.
10. Install the rear tire and wheel assemblies. Refer to **Tire and Wheel Removal and Installation** .
11. Fully apply and release the park brake pedal 3-5 times in order for the cable tensioner to

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take up any slack in the park brake cables.

12. Fully apply the park brake pedal, a firm pedal should be obtained by depressing the pedal less than one full stroke.
13. Attempt to rotate the rear brake drums. There should be no rotation forward or rearward.
14. Fully release the park brake pedal.
15. Verify the park brake is released by rotating the rear brake drums. The drums should rotate freely and exhibit no brake shoe drag.
16. Lower the vehicle.

### PARK BRAKE ADJUSTMENT (DISC BRAKE)

#### Tools Required

**J 21177-A** Drum-to-Brake Shoe Clearance Gage

#### Park Brake Shoe Adjustment

**CAUTION:** Refer to Brake Dust Caution .

**IMPORTANT:** The park brake shoes must be adjusted before the park brake cable tension is adjusted.

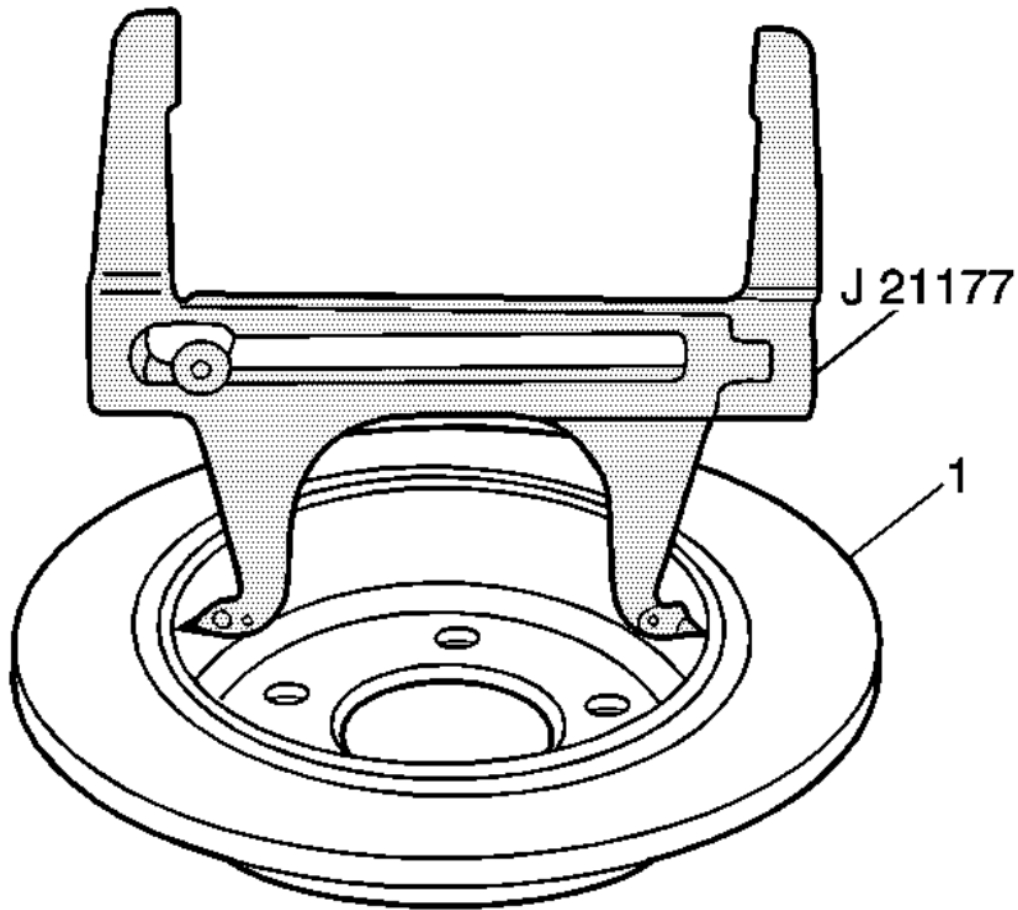


**Fig. 49: Measuring Inside Of Rotor**  
**Courtesy of GENERAL MOTORS CORP.**

1. Set the **J 21177-A** so it contacts the inside diameter of the rotor.

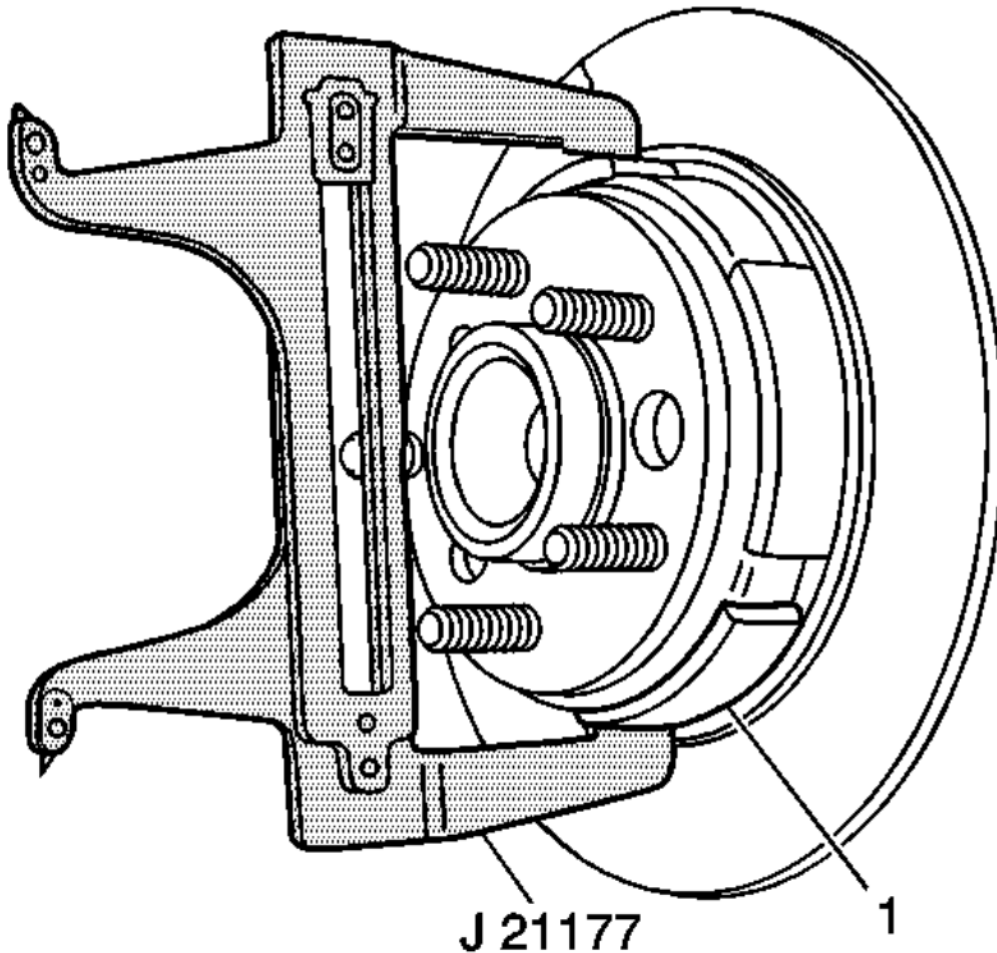


**Fig. 50: Adjusting Parking Brake Shoes Using Special Tool**  
**Courtesy of GENERAL MOTORS CORP.**

2. Position the **J 21177-A** over the shoe and the lining at the widest point.
3. Turn the adjuster nut until the lining just contacts the **J 21177-A**.

**Specification:** Park brake shoe to brake rotor clearance: 0.6604 mm (0.026 in)

4. Repeat steps 1-3 for the opposite side.

**IMPORTANT: Before you adjust the park brake cable tension, verify that the park brake shoes are adjusted to provide a clearance of 0.6604 mm (0.026 in) and the rear disc brake rotors are installed.**

1. Verify the self adjuster lock-out pin has been removed.
2. Fully apply and release the park brake pedal 3 times.

## **DESCRIPTION AND OPERATION**

### **PARK BRAKE SYSTEM DESCRIPTION AND OPERATION (W/REAR DRUM)**

#### **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.

#### **Park Brake Release Handle Assembly**

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**

Multiplies and transfers input force to park brake actuator/adjuster.

#### **System Operation**

Pressing the Park Brake Pedal creates INPUT FORCE. The INPUT FORCE is transferred and evenly distributed through the park park cables and the equalizer to the left and right rear park brake cables. The INPUT FORCE, is then transferred to the apply levers located in each of the

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rear brake drums. The levers then multiply the INPUT FORCE and transfer the force to the rear brake shoes. At that point, the brake shoes are forced to expand and make contact with the friction surface of the rear brake drums, preventing the rotation of the rear wheels. Use the park brake release handle to disengage the park brake.

### **PARK BRAKE SYSTEM DESCRIPTION AND OPERATION (W/REAR DISC)**

#### **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.

#### **Park Brake Release Handle Assembly**

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**

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**

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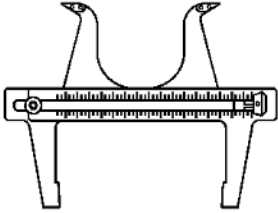
Applies mechanical output force from park brake actuator to friction surface of the drum-in-hat portion of the rear brake rotor.

### 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 releases an applied park brake system when it is pulled rearward.

## SPECIAL TOOLS AND EQUIPMENT

### SPECIAL TOOLS

| Illustration                                                                        | Tool Number/ Description                        |
|-------------------------------------------------------------------------------------|-------------------------------------------------|
|  | J 21177-A<br>Drum-to-Brake Shoe Clearance Gauge |
|  | J 37043<br>Parking Brake Cable Release Tool     |