

2007 Cadillac Escalade

2007 BRAKES Park Brake - Avalanche, Escalade, Suburban, Tahoe & Yukon

2007 BRAKES

Park Brake - Avalanche, Escalade, Suburban, Tahoe & Yukon

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 to Differential Bolt (2500 Series)	22 N.m	16 lb ft
Park Brake Cable Guide Bolts	12 N.m	106 lb in
Park Brake Cable Support Bracket Nuts	85 N.m	641 lb ft
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 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**.

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

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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

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

PARK BRAKE SYSTEM DIAGNOSIS

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 <u>Diagnostic Starting Point - Park Brake</u>	Go to <u>Diagnostic Starting Point - Hydraulic Brakes</u>
4	1. Raise and support the vehicle with the rear axle supported by jack stands. Refer to <u>Lifting and Jacking the Vehicle</u> . 2. Shift the transmission into NEUTRAL. 3. With the park brake RELEASED, attempt to		

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	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 11	Go to Step 5
5	- Shift the transmission into NEUTRAL. - Apply the park brake. - 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 6	Go to Step 7
6	- Release the park brake. - Rotate the rear wheels to check the rear brakes for a significant reduction in the amount of drag.		
	Did the rear brakes exhibit a significant reduction in the amount of drag?	Go to Step 22	Go to Step 11
7	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 of the park brake cables disconnected and/or damaged?	Go to Step 8	Go to Step 9
8	Reconnect or replace the park brake cables as necessary. Refer to the following procedures as necessary: <u>Park Brake Pedal Assembly Replacement</u> <u>Park Brake Cable Replacement - Left Rear</u> <u>Park Brake Cable Replacement - Right Rear</u>		-
	Did you complete the repair and/or replacement?	Go to Step 9	
9	Check the adjustment of the park brake. Refer to <u>Park Brake Adjustment</u> . Was the park brake adjusted properly?	Go to Step 11	Go to Step 10
10	Adjust the park brake. Refer to <u>Park Brake Adjustment</u> . Were you able to attain adjustment of the park brake?	Go to Step 16	Go to Step 11
	NOTE: 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. Remove the rear brake rotors. Refer to <u>Rear</u>		

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11	<u>Brake Rotor Replacement (1500 Series) or Rear Brake Rotor Replacement (2500 Series)</u> . - Inspect the park brake shoe hardware for looseness, damaged, broken or missing components. - Check the park brake actuators for a seized condition. Does the park brake hardware and/or the park brake actuators require replacement?	Go to Step 12	Go to Step 13
12	Replace the park brake actuators as necessary. Refer to <u>Parking Brake Actuator Replacement (1500 Series)</u> or <u>Parking Brake Actuator Replacement (2500 Series)</u>. Did you complete the replacement?	Go to Step 13	-
13	Have an assistant apply and release the park brake, while you observe the park brake cables for free movement. Did the park brake cables move freely?	Go to Step 14	Go to Step 17
14	Check the adjustment of the park brake. Refer to <u>Park Brake Adjustment</u>. Was the park brake adjusted properly?	Go to Step 16	Go to Step 15
15	Adjust the park brake. Refer to <u>Park Brake Adjustment</u>. Were you able to attain adjustment of the park brake?	Go to Step 16	Go to Step 27
16	- With the transmission still in NEUTRAL, apply the park brake. - Attempt to rotate the rear wheels to check the rear brakes for a significant amount of drag. - Release the park brake. - 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 29	Return to Symptom Table
17	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 18	Go to Step 19
18	Replace any of the park brake cables that do not have free movement (not releasing properly). Refer to the following procedures as necessary: <u>Park Brake Pedal Assembly Replacement</u>		-

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	• <u>Park Brake Cable Replacement - Left Rear</u> • <u>Park Brake Cable Replacement - Right Rear</u>		
	Did you complete the replacement?	Go to Step 19	
19	1. Disconnect the front park brake cable connection accessible INSIDE the vehicle at the park brake pedal assembly and check for free movement. 2. Replace the front park brake cable if it does not have free movement. Refer to <u>Park Brake Pedal Assembly Replacement</u>.		
	Did you find and correct a condition?	Go to Step 25	Go to Step 20
20	1. Disconnect the park brake release handle assembly cable connection from the park brake pedal assembly and check for free movement. 2. Replace the park brake release handle assembly if the release cable does not have free movement. Refer to <u>Park Brake Release Handle Assembly Replacement</u>.		
	Did you find and correct a condition?	Go to Step 25	Go to Step 21
21	Replace the park brake pedal assembly (not releasing properly). Refer to <u>Park Brake Pedal Assembly Replacement</u> . Did you complete the replacement?	Go to Step 26	-
22	Check the adjustment of the park brake. Refer to <u>Park Brake Adjustment</u> . Is the park brake adjusted properly?	Go to Step 29	Go to Step 23
23	Adjust the park brake. Refer to <u>Park Brake Adjustment</u> . Were you able to attain adjustment of the park brake system?	Go to Step 28	Go to Step 24
24	1. Remove the rear brake rotors, if they have not yet been removed. Refer to <u>Rear Brake Rotor Replacement (1500 Series)</u> or <u>Rear Brake Rotor Replacement (2500 Series)</u>. 2. Check the park brake actuators for a seized condition. 3. Replace the park brake actuators as necessary. Refer to <u>Parking Brake Actuator Replacement (1500 Series)</u> or <u>Parking Brake Actuator Replacement (2500 Series)</u>.		

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	Did you find and correct a condition?	Go to Step 25	Go to Step 27
25	Adjust the park brake. Refer to <u>Park Brake Adjustment</u> . Were you able to attain adjustment of the park brake system?	Go to Step 28	Go to Step 27
26	Adjust the park brake. Refer to <u>Park Brake Adjustment</u> . Were you able to attain adjustment of the park brake system?	Go to Step 28	Return to Symptom Table
27	1. Replace the component that is used to adjust the park brake system. Refer to <u>Park Brake Pedal Assembly Replacement</u> . 2. Adjust the park brake. Refer to <u>Park Brake Adjustment</u> . Did you complete the replacement and adjustment?	Go to Step 28	Return to Symptom Table
28	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 29	Return to Symptom Table
29	Install or connect any components that were removed or disconnected during diagnosis. Did you complete the operation?	Park Brake System OK Return to Symptom Table	-

PARK 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 (1500 Series)** or **Rear Brake Caliper Bracket Replacement (2500 Series)** .

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

4. Remove the rear brake rotor. Refer to **Rear Brake Rotor Replacement (1500 Series)** or **Rear Brake**

Rotor Replacement (2500 Series) .

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**.
7. Install the rear brake rotor. Refer to **Rear Brake Rotor Replacement (1500 Series)** or **Rear Brake Rotor Replacement (2500 Series)** .
8. Install the rear brake caliper with the rear brake caliper bracket. Refer to **Rear Brake Caliper Bracket Replacement (1500 Series)** or **Rear Brake Caliper Bracket Replacement (2500 Series)** .
9. Install the tire and wheel assembly. Refer to **Tire and Wheel Removal and Installation** .
10. Lower the vehicle.

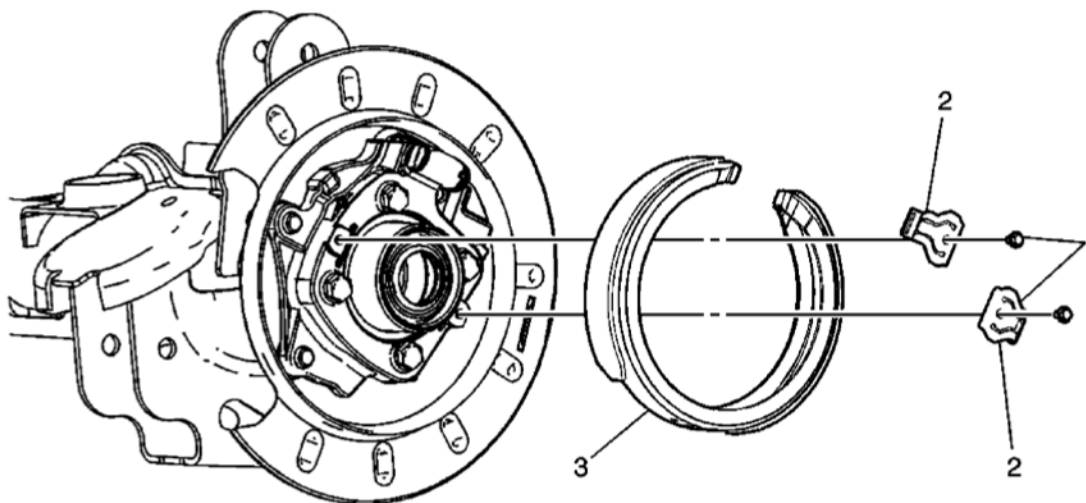
REPAIR INSTRUCTIONS**PARK BRAKE SHOE REPLACEMENT (1500 SERIES)**

Fig. 1: View Of Park Brake Shoe & Components
Courtesy of GENERAL MOTORS CORP.

Park Brake Shoe Replacement (1500 Series)

Callout	Component Name
CAUTION: Refer to <u>Brake Dust Caution</u> .	
Preliminary Procedures	

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1. Raise and support the vehicle. Refer to **Lifting and Jacking the Vehicle** .
2. Remove the brake rotor. Refer to **Rear Brake Rotor Replacement (1500 Series)** or **Rear Brake Rotor Replacement (2500 Series)** .
3. Disconnect the park brake cable from the actuator.

1	Bolt, Park Brake Shoe Retaining (Qty: 2) NOTE: Refer to <u>Fastener Notice</u> . Tighten: 15 N.m (11 lb ft) Tip: Use the appropriate cleaner to clean the work area.
2	Clip, Park Brake Shoe Retaining (Qty: 2) Tip: If the retaining clips are found to be damaged, replace the retaining clips.
3	Shoe and Lining, Park Brake Tip: • Turn the park brake shoe adjuster screw until it is fully retracted. • When removing or installing 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. • When installing the park brake shoe, apply a small amount of brake lubricant to the brake shoe and the backing plate contact points. • Adjust the park brake shoe. Refer to <u>Park Brake Adjustment</u>.

PARK BRAKE SHOE REPLACEMENT (2500 SERIES)

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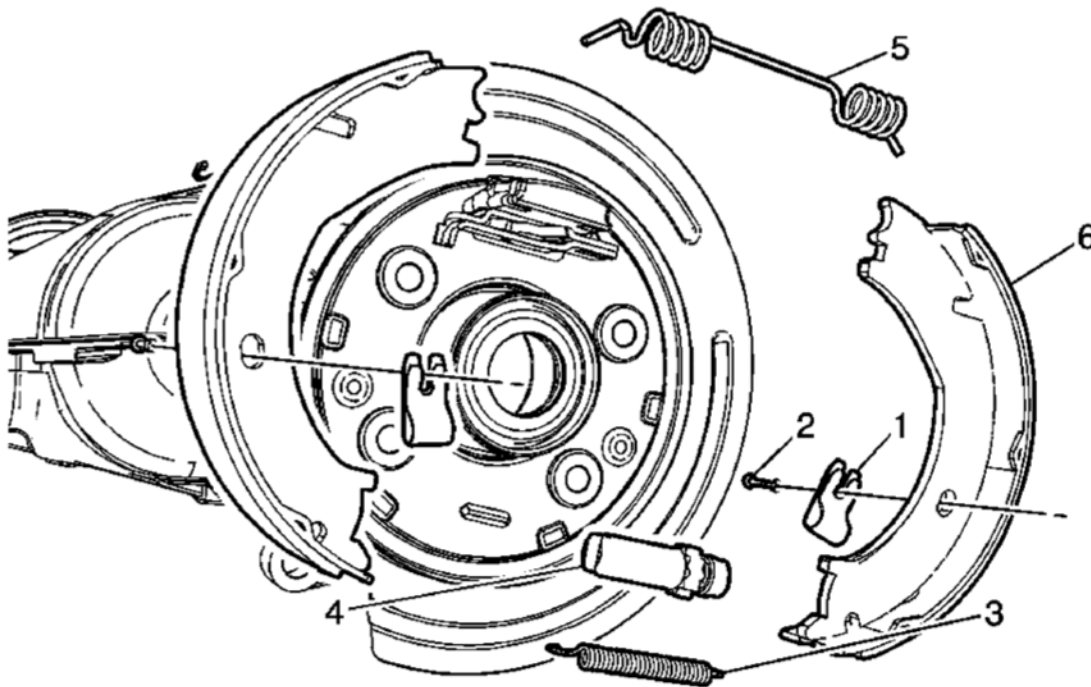


Fig. 2: View Of Park Brake Shoe & Components
Courtesy of GENERAL MOTORS CORP.

Park Brake Shoe Replacement (2500 Series)

Callout	Component Name
CAUTION: Refer to <u>Brake Dust Caution</u> .	
Preliminary Procedures	
1. Raise and support the vehicle. Refer to <u>Lifting and Jacking the Vehicle</u> .	
2. Remove the brake rotor. Refer to <u>Rear Brake Rotor Replacement (1500 Series)</u> or <u>Rear Brake Rotor Replacement (2500 Series)</u> .	
3. Disconnect the park brake cable from the actuator.	
1	Clip, Park Brake Shoe Retaining (Qty: 2)
2	Pin, Park Brake Shoe Retaining (Qty: 2)
3	Spring, Park Brake Shoe Lower Return
4	Screw, Park Brake Shoe Adjuster
	Tip: • Clean the threads of the adjuster screw to remove any corrosion. Apply a light coat of high temperature brake lubricant to the adjuster screw threads. • Turn the park brake shoe adjuster screw until it is fully retracted.

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5	Spring, Park Brake Shoe Upper Return
	Shoe and Lining, Park Brake (Qty: 2)
6	Tip: • When installing the park brake shoe, apply a small amount of brake lubricant to the brake shoe and the backing plate contact points. • Adjust the park brake shoes. Refer to <u>Park Brake Adjustment</u>.

PARK BRAKE RELEASE HANDLE ASSEMBLY REPLACEMENT

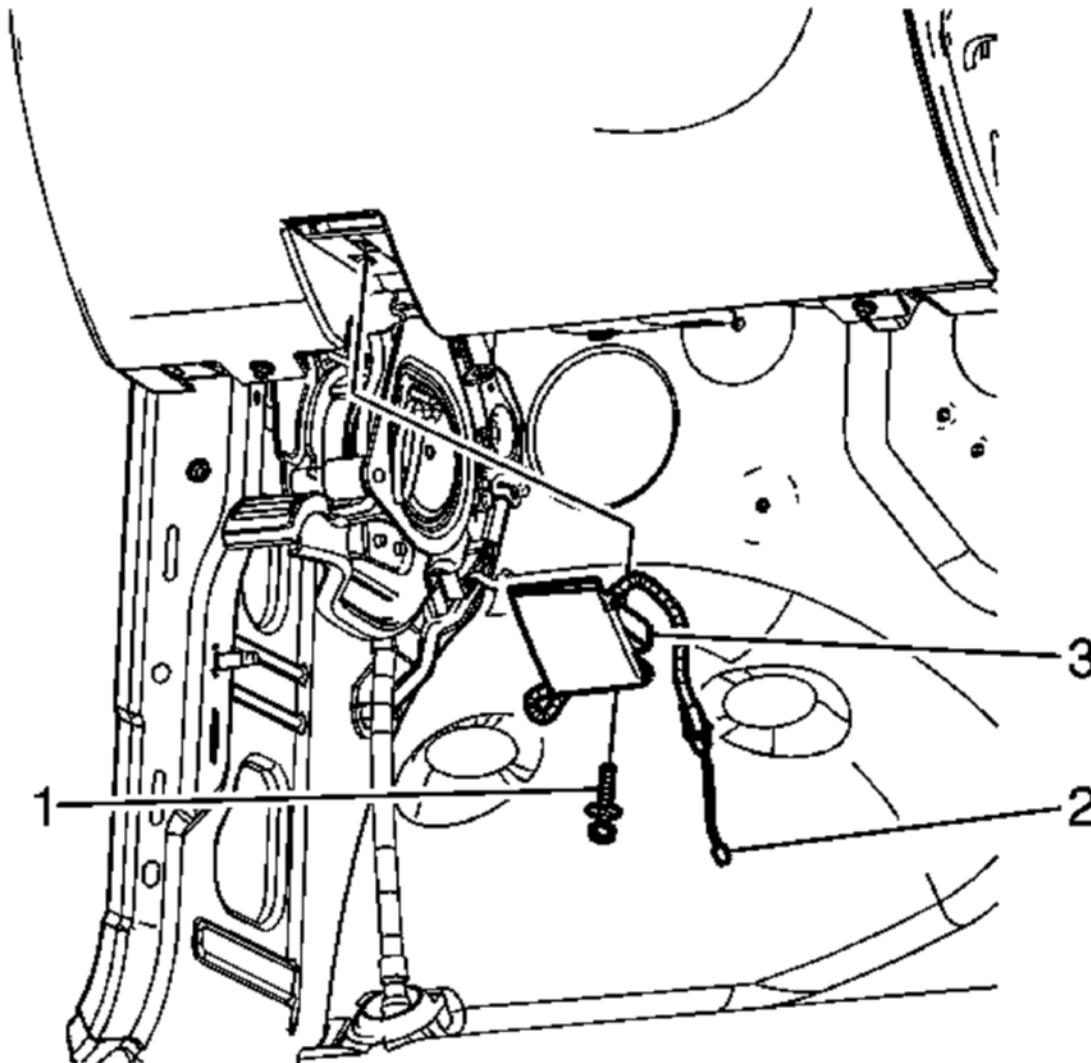


Fig. 3: Park Brake Release Handle Assembly & Components
Courtesy of GENERAL MOTORS CORP.

Park Brake Release Handle Assembly Replacement

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

PARK BRAKE 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** .

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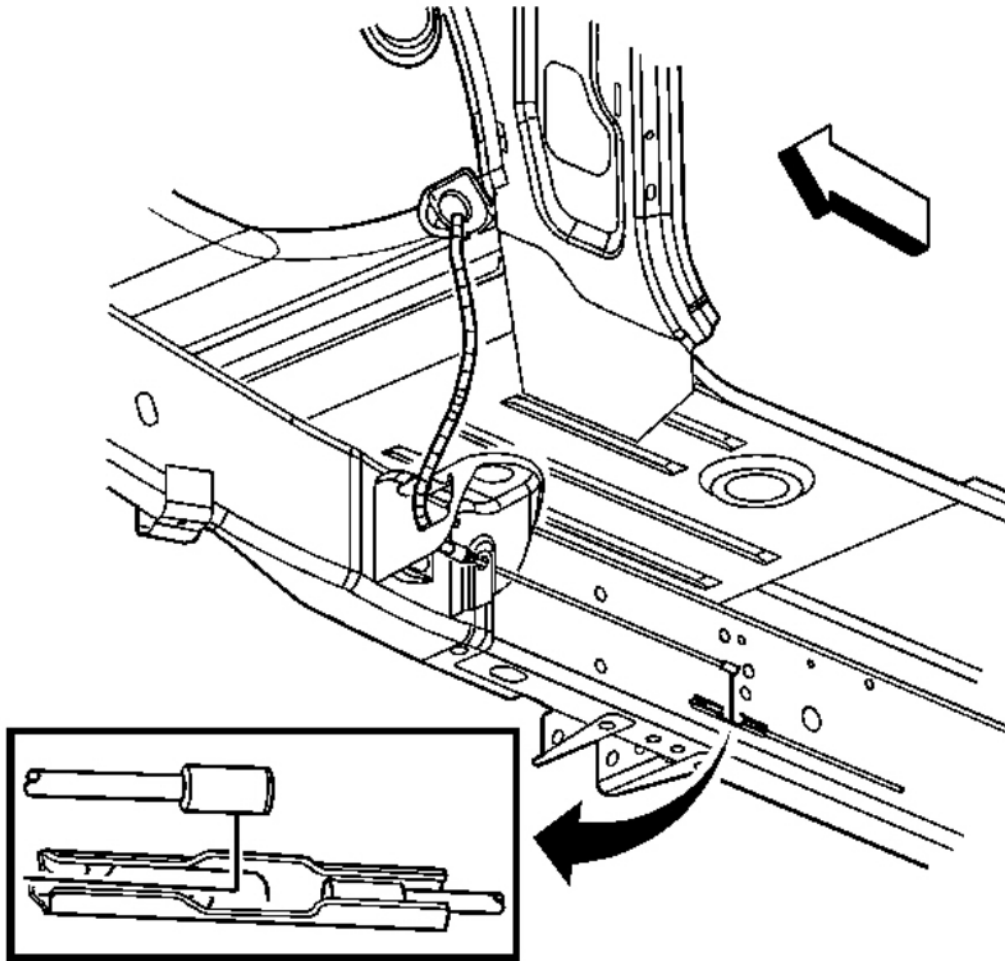


Fig. 4: View Of Park Brake Cable - Front/Intermediate
Courtesy of GENERAL MOTORS CORP.

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.

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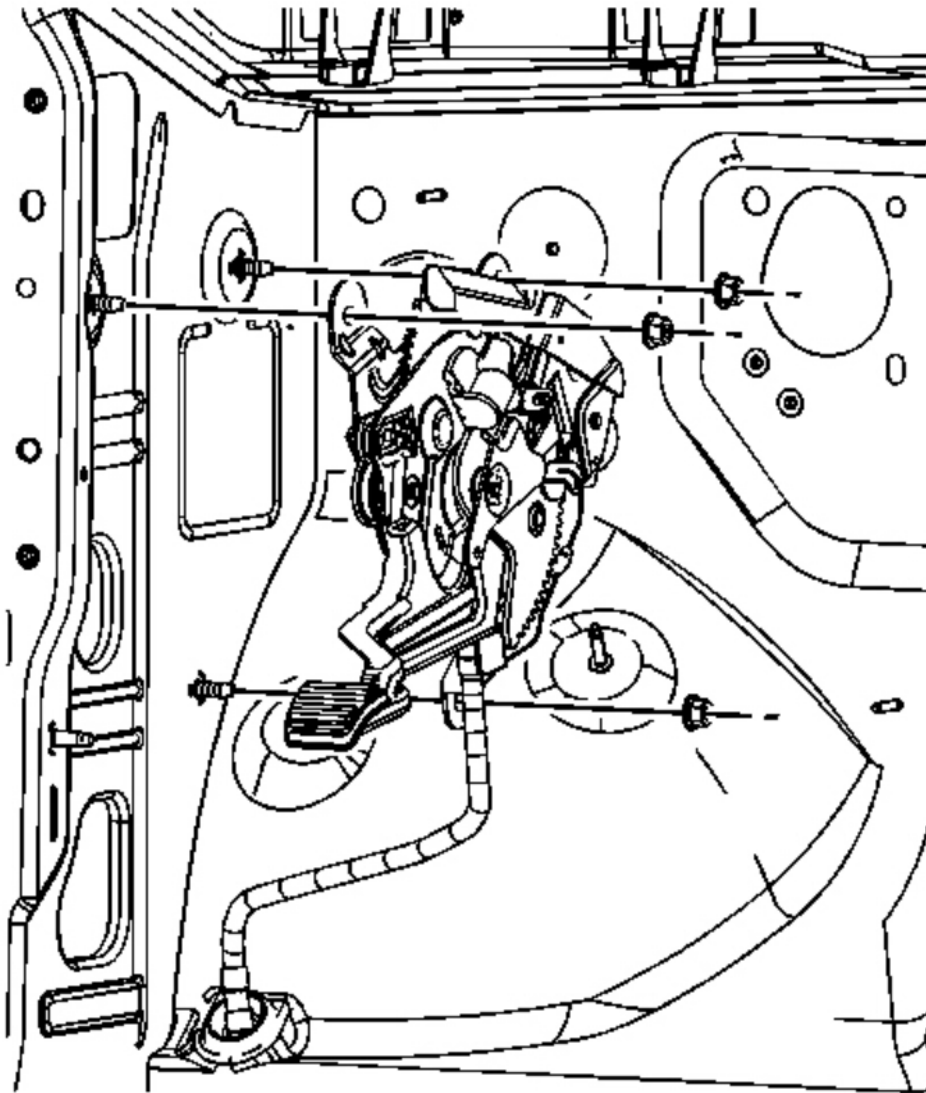


Fig. 5: View Of Park Brake Lever Mounting Nuts
Courtesy of GENERAL MOTORS CORP.

10. Remove the park brake lever mounting nuts.

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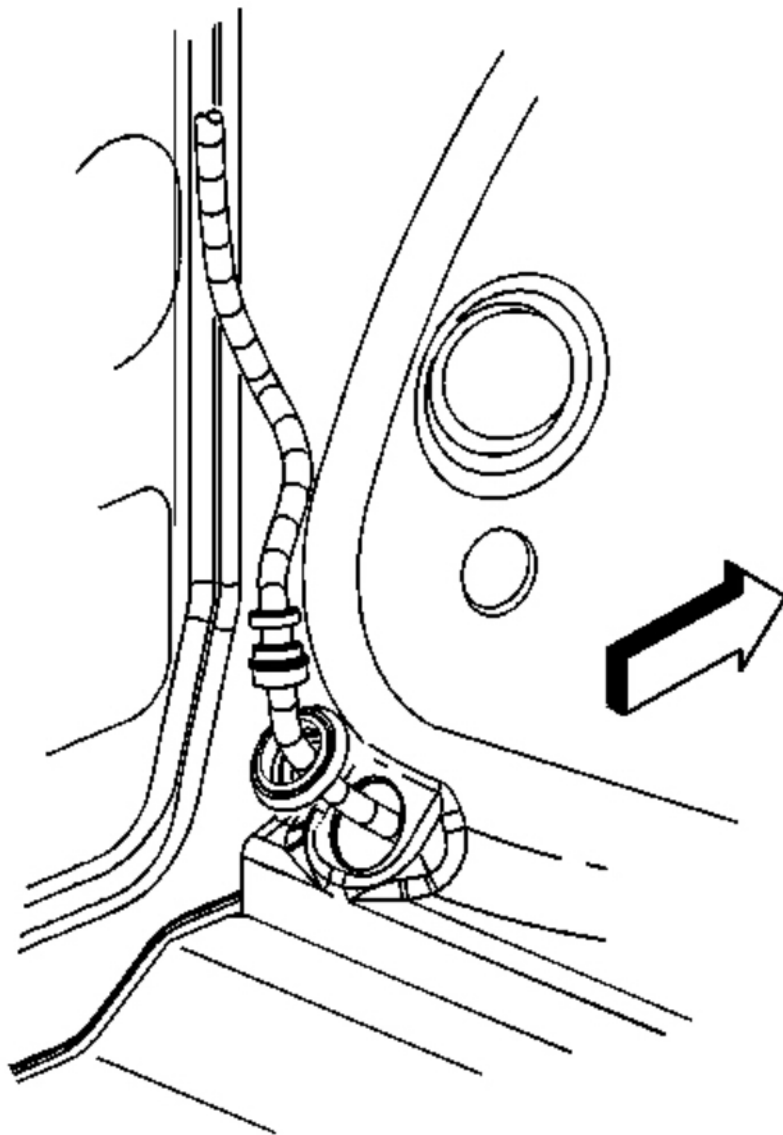


Fig. 6: Front Park Brake Cable Grommet
Courtesy of GENERAL MOTORS CORP.

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.

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Installation Procedure

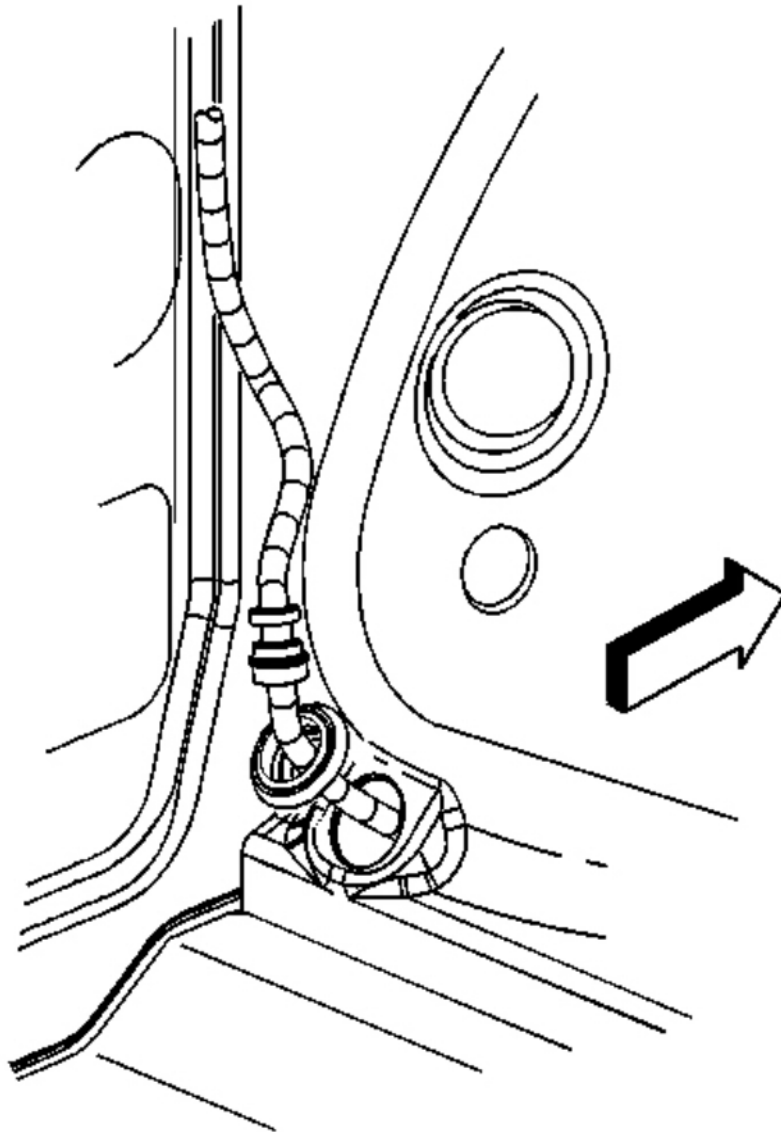


Fig. 7: Front Park Brake Cable Grommet
Courtesy of GENERAL MOTORS CORP.

IMPORTANT: Ensure the grommet for the front park brake cable is properly seated in the front floor panel.

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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.

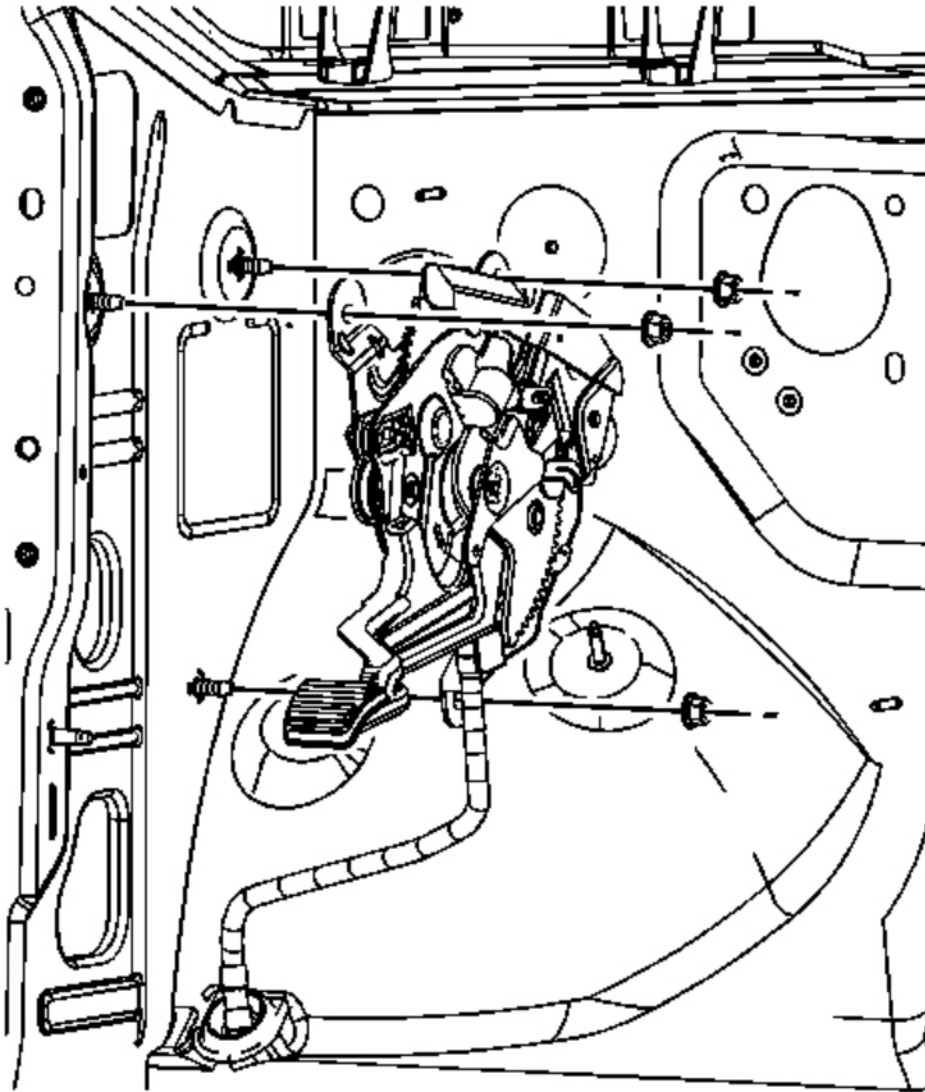


Fig. 8: View Of Park Brake Lever Mounting Nuts
Courtesy of GENERAL MOTORS CORP.

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

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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.

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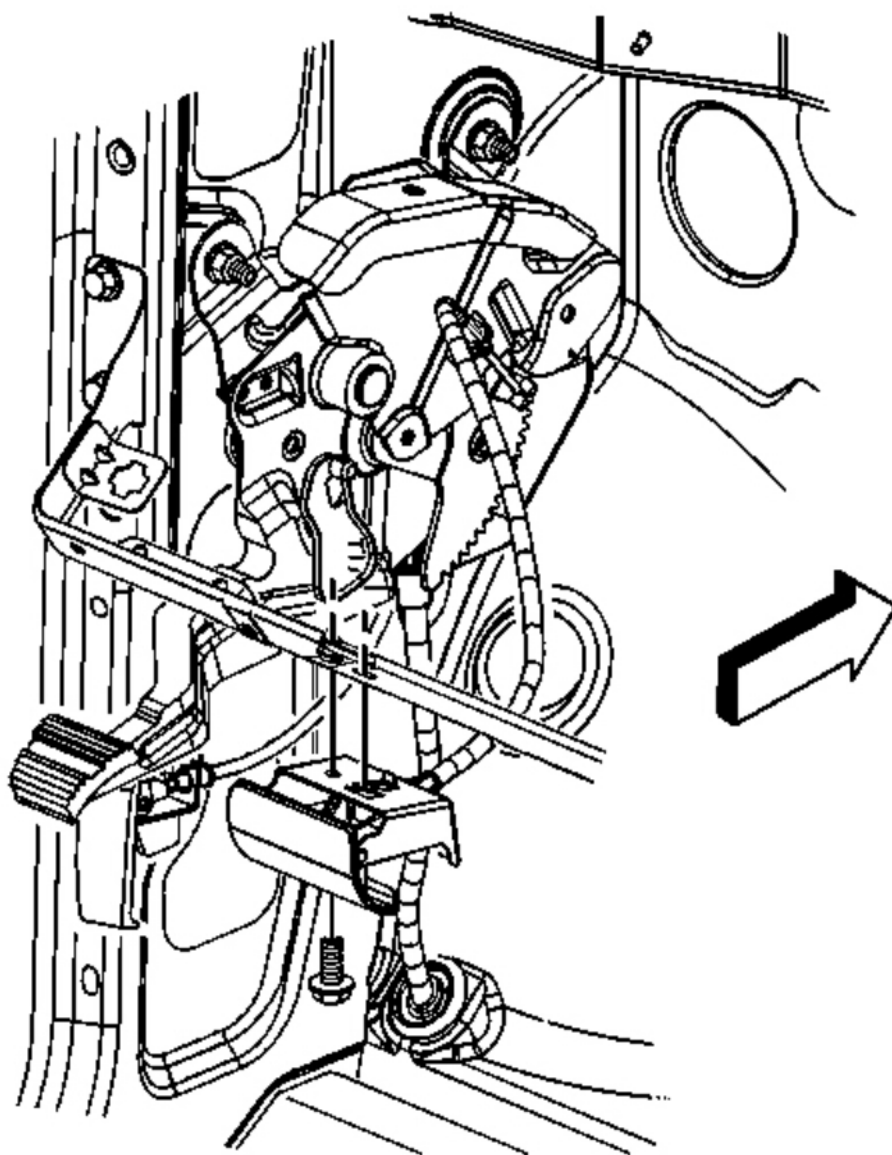


Fig. 9: View Of Park Brake Release Lever Handle & Bolt
Courtesy of GENERAL MOTORS CORP.

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.

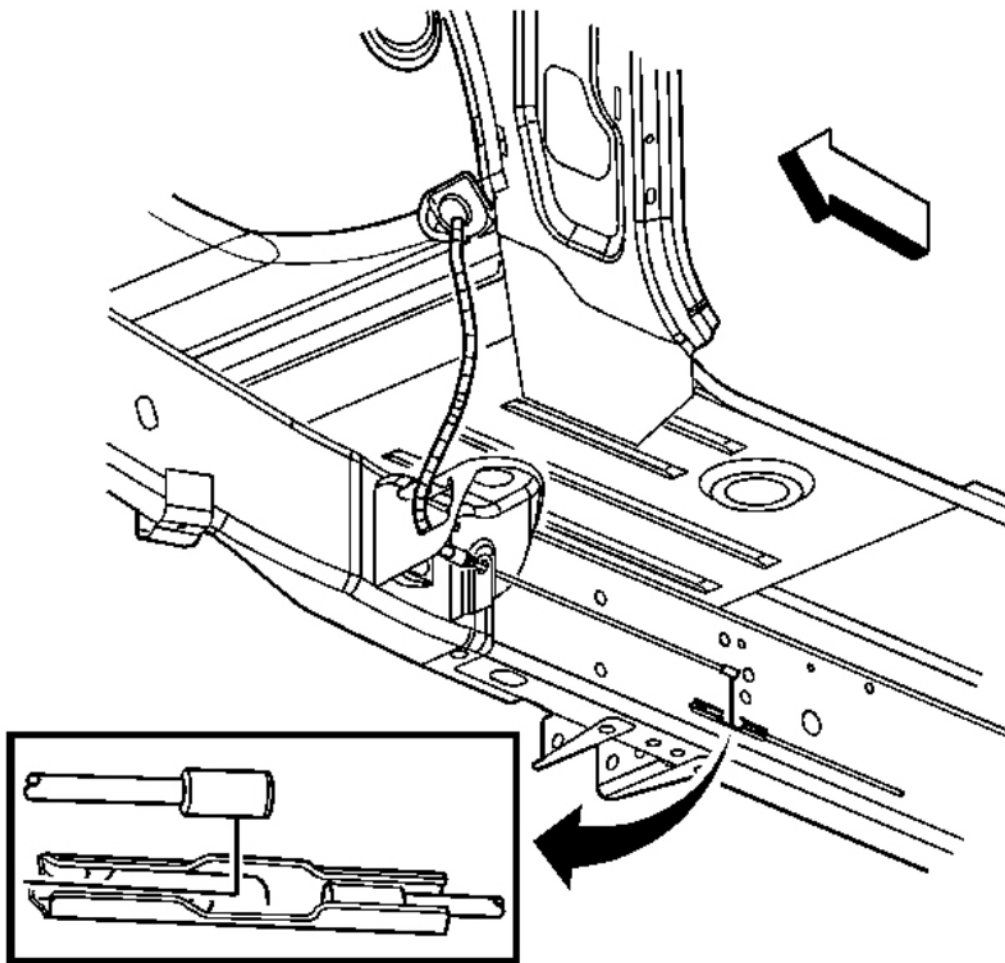


Fig. 10: View Of Park Brake Cable - Front/Intermediate
Courtesy of GENERAL MOTORS CORP.

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

PARK BRAKE WARNING LAMP SWITCH REPLACEMENT

Removal Procedure

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

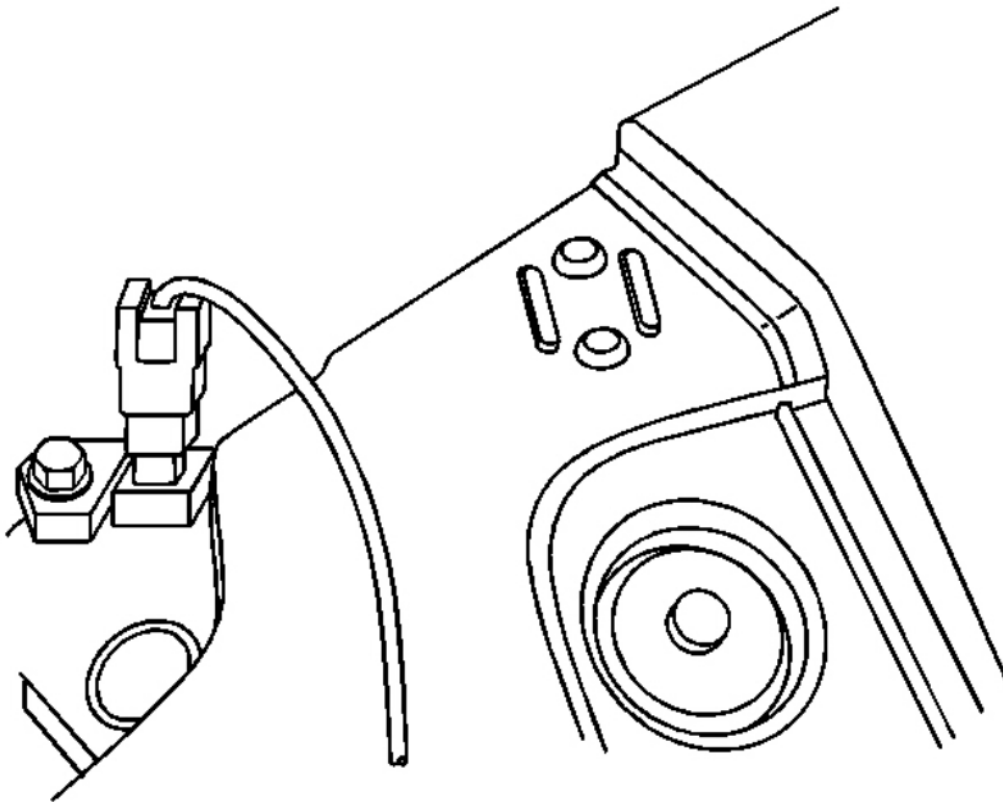


Fig. 11: Park Brake Warning Lamp Switch Electrical Connector
Courtesy of GENERAL MOTORS CORP.

1. Disconnect the negative battery cable. Refer to **Battery Negative Cable Disconnection and Connection** .

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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. Remove the park brake warning lamp switch electrical connector.

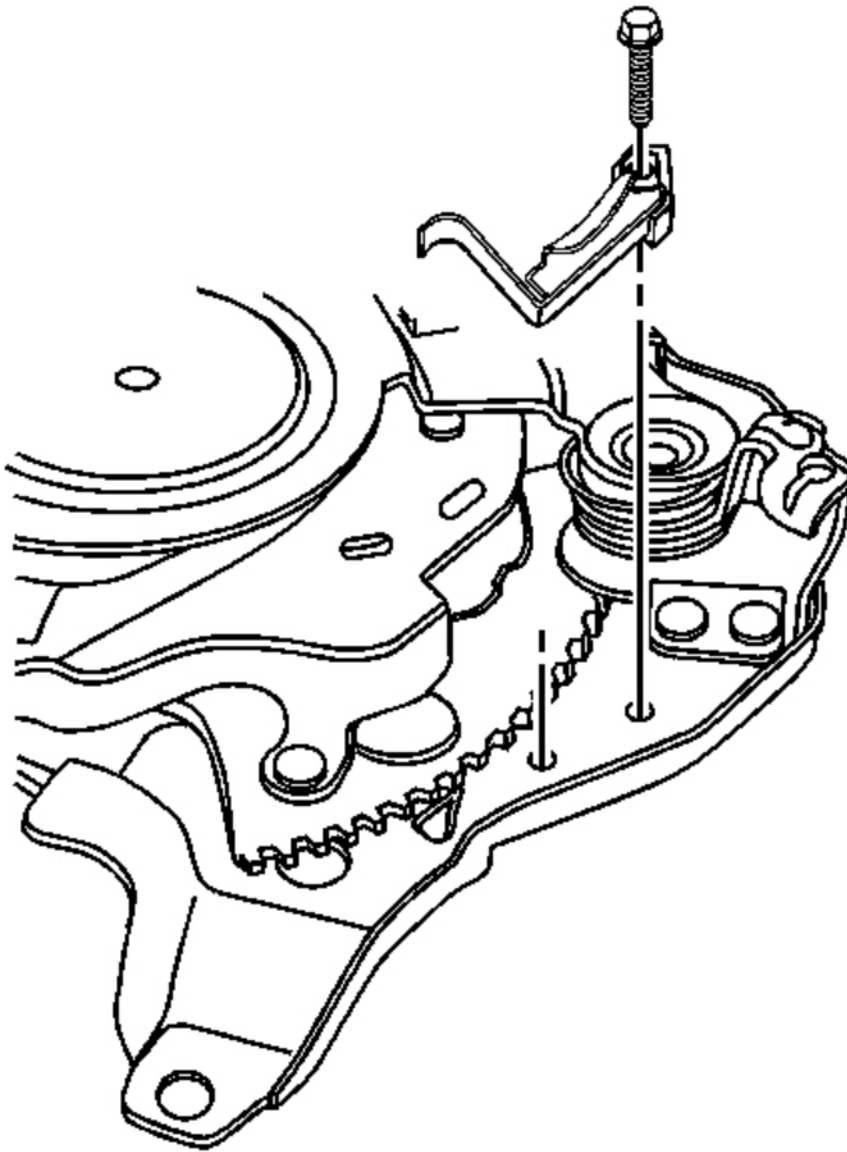


Fig. 12: Park Brake Warning Lamp Switch Mounting Bolt

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Courtesy of GENERAL MOTORS CORP.

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

Installation Procedure

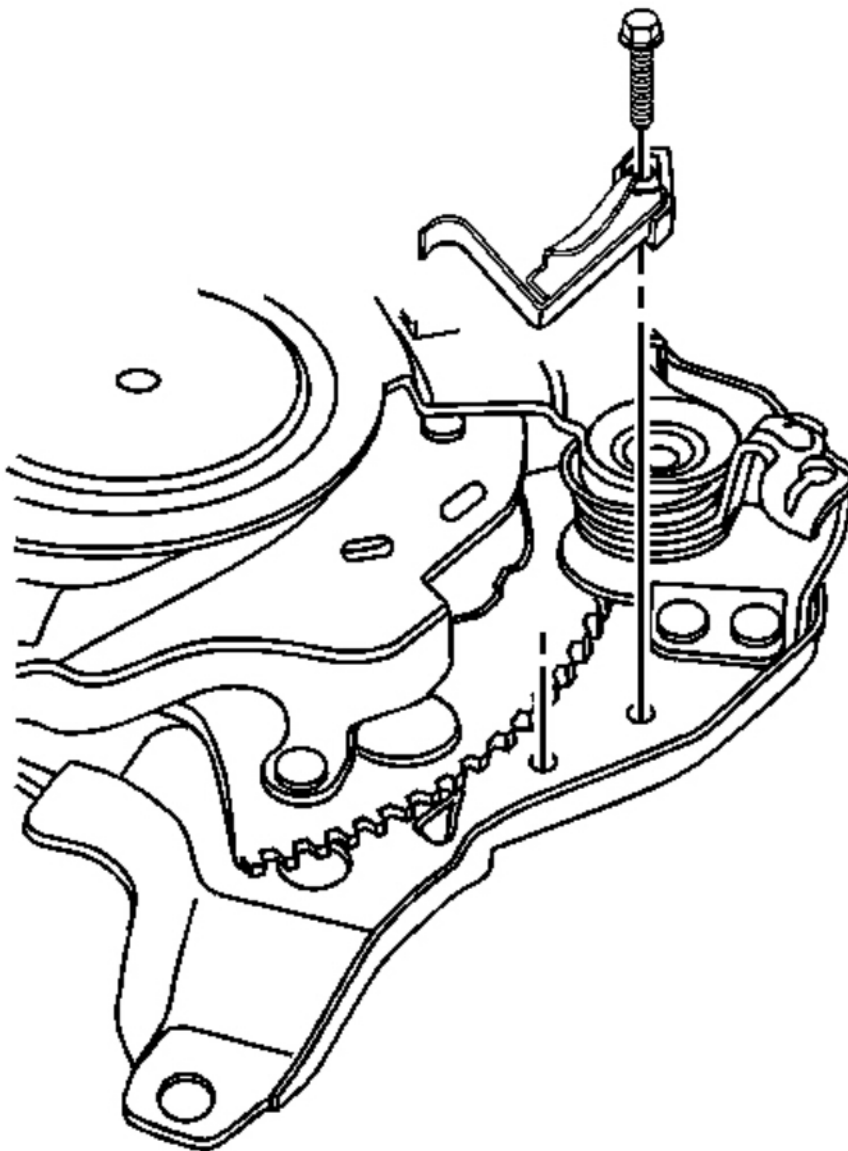


Fig. 13: Park Brake Warning Lamp Switch Mounting Bolt
Courtesy of GENERAL MOTORS CORP.

1. Install the park brake warning lamp switch.

NOTE: Refer to Fastener Notice .

2. Install the park brake warning lamp switch mounting bolt.

Tighten: Tighten the bolt to 3 N.m (25 lb in).

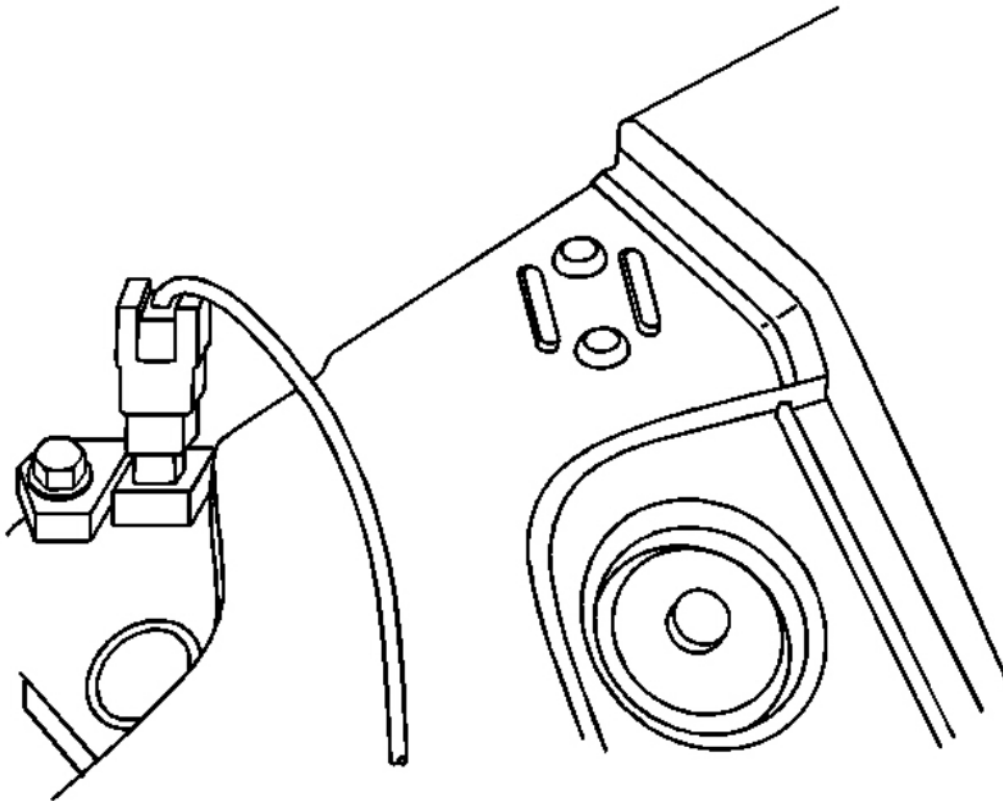


Fig. 14: Park Brake Warning Lamp Switch Electrical Connector
Courtesy of GENERAL MOTORS CORP.

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 .

PARK BRAKE CABLE REPLACEMENT - LEFT REAR

Removal Procedure

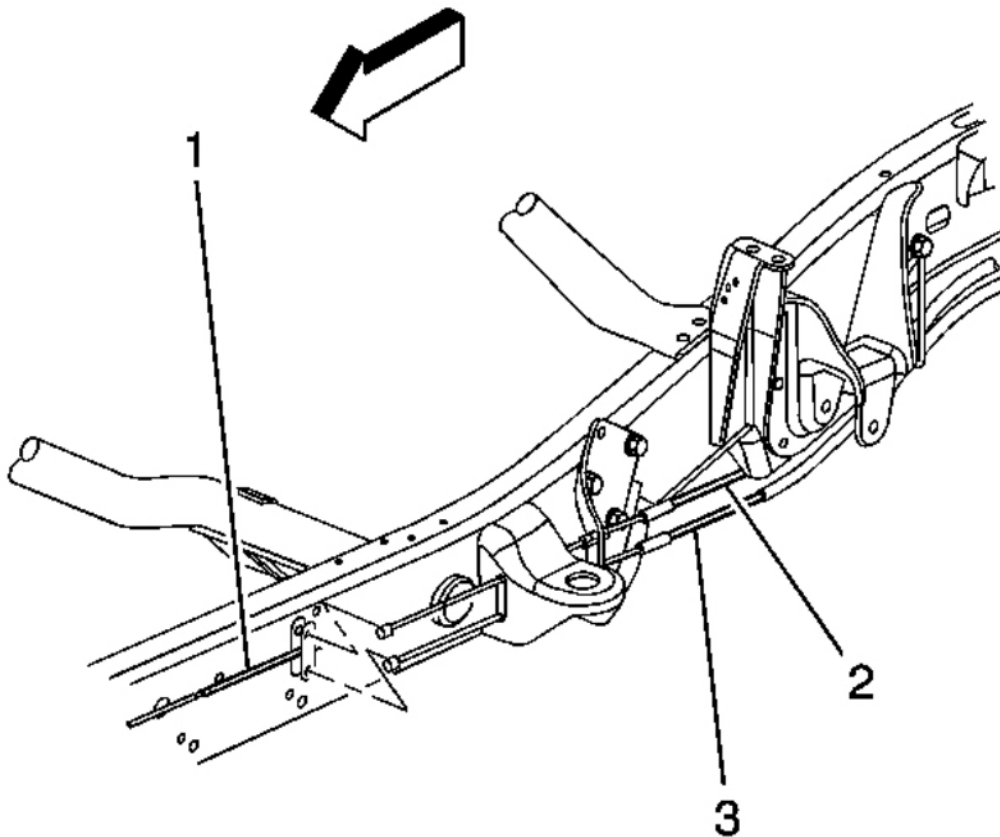


Fig. 15: Park Brake Cables At Equalizer Bar
Courtesy of GENERAL MOTORS CORP.

1. Ensure the park brake is released.
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 rear park brake cable (3) from the equalizer on the intermediate park brake cable (1).

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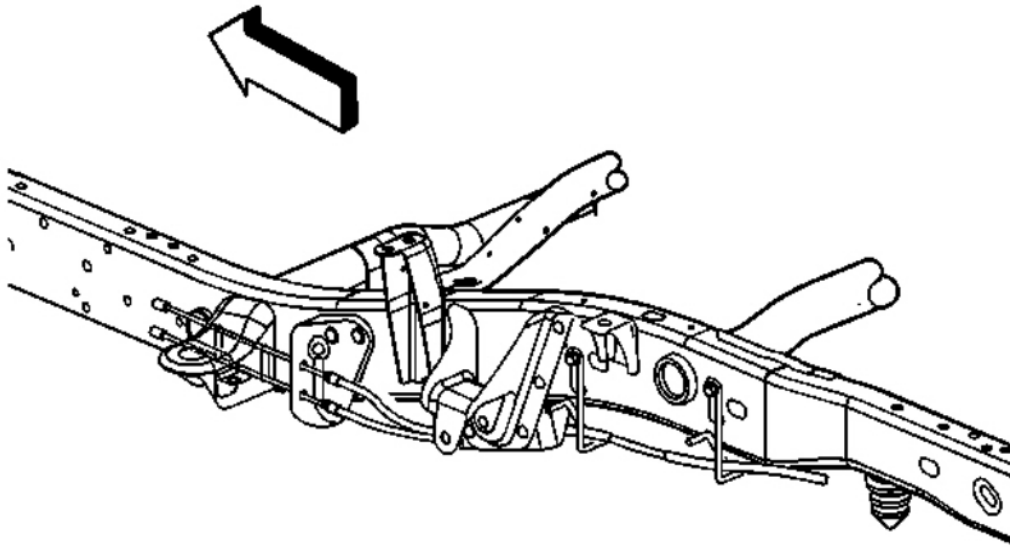


Fig. 16: View of Park Brake Cable & Mounting Bracket
Courtesy of GENERAL MOTORS CORP.

5. Remove the park brake cable from the mounting bracket by depressing the locking tabs.

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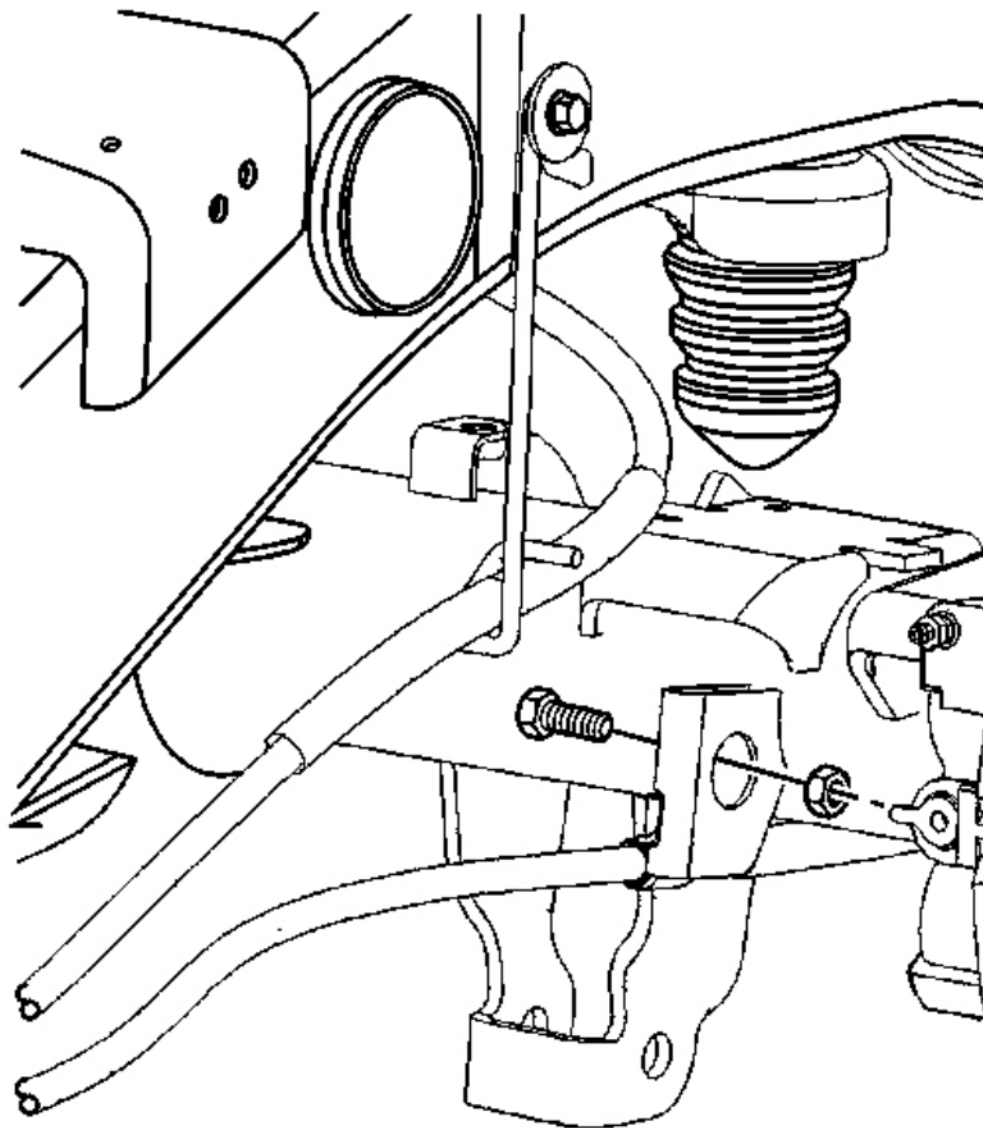


Fig. 17: Park Brake Cable, Shock Absorber Bracket & Bolt - Left Rear (w/o NYS)
Courtesy of GENERAL MOTORS CORP.

6. Remove the nut and bolt securing the park brake cable to the rear axle housing bracket (2500 series).
7. Release the park brake cable from the park brake cable guides on the vehicle frame.

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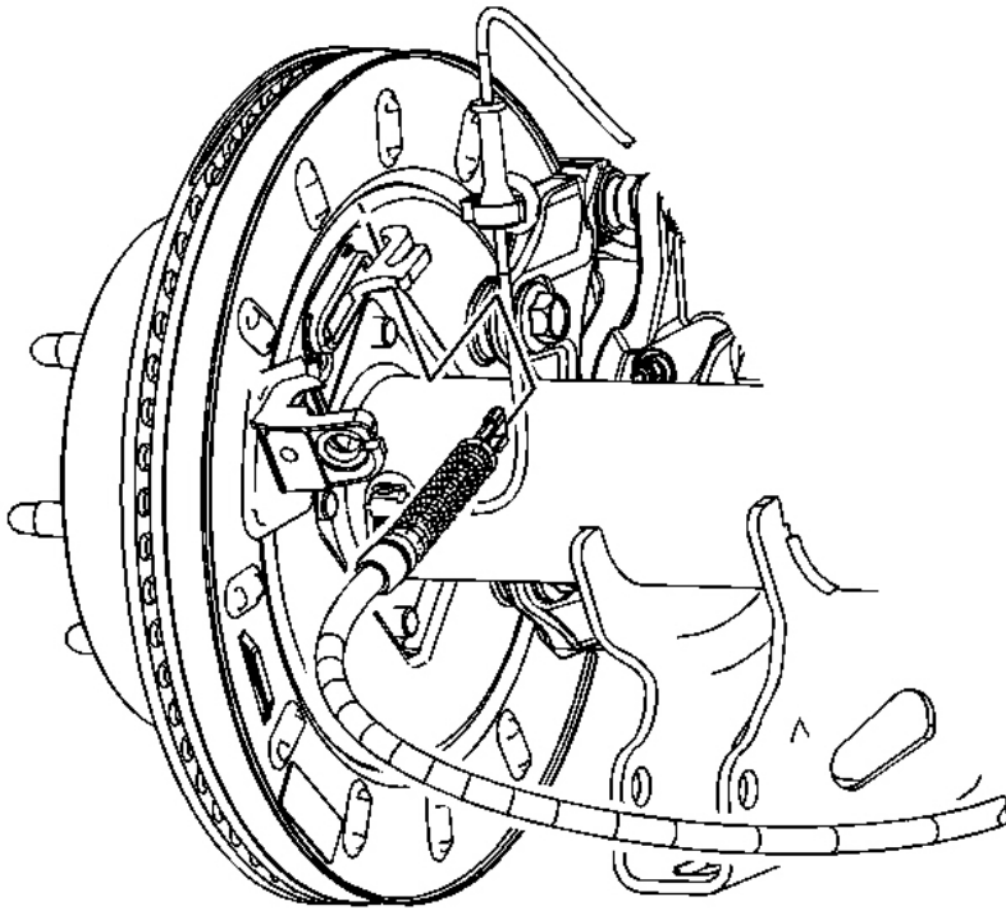


Fig. 18: View Of Park Brake Cable & Actuator Lever
Courtesy of GENERAL MOTORS CORP.

8. Remove the park brake cable from the actuator lever.
9. Remove the park brake cable from the backing plate by depressing the locking tabs.
10. Remove the park brake cable.

Installation Procedure

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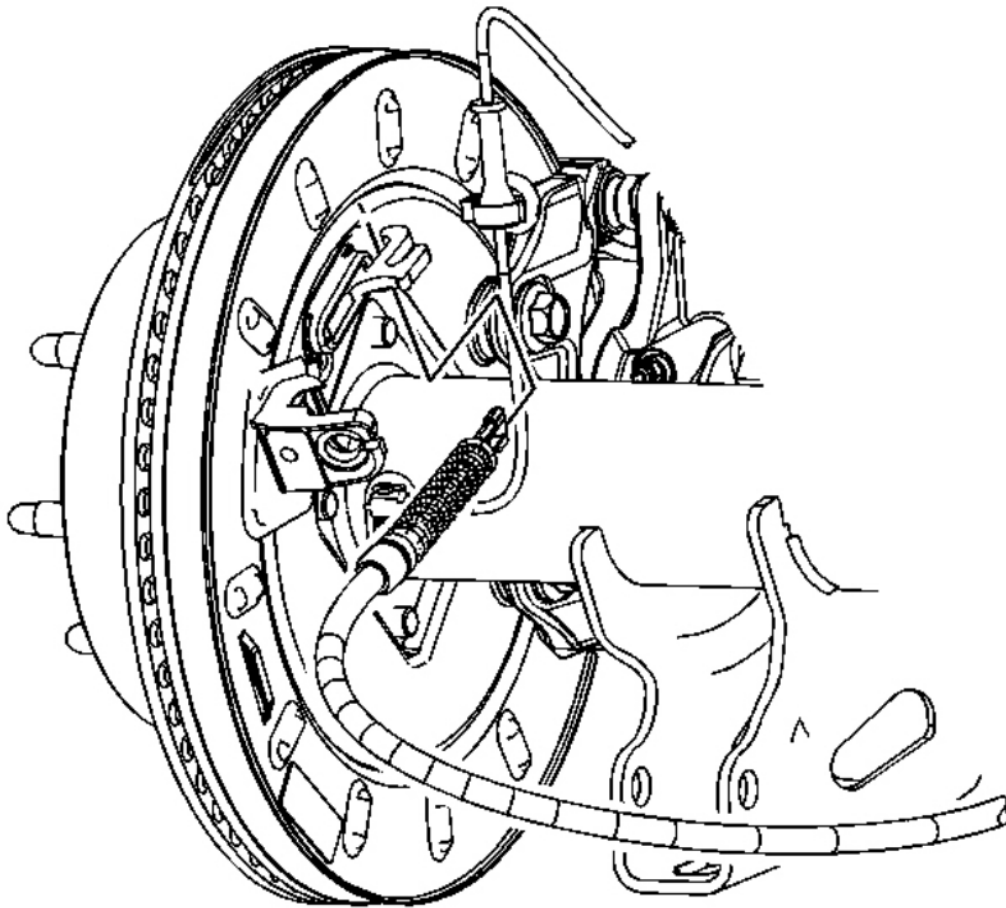


Fig. 19: View Of Park Brake Cable & Actuator Lever
Courtesy of GENERAL MOTORS CORP.

1. Install the cable taking care to correctly route the cable through the guides and the body mounts.
2. Install the cable to the backing plate by pressing the cable into place until the tabs lock into place.
3. Install the cable to the actuator lever.

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2007 BRAKES Park Brake - Avalanche, Escalade, Suburban, Tahoe & Yukon

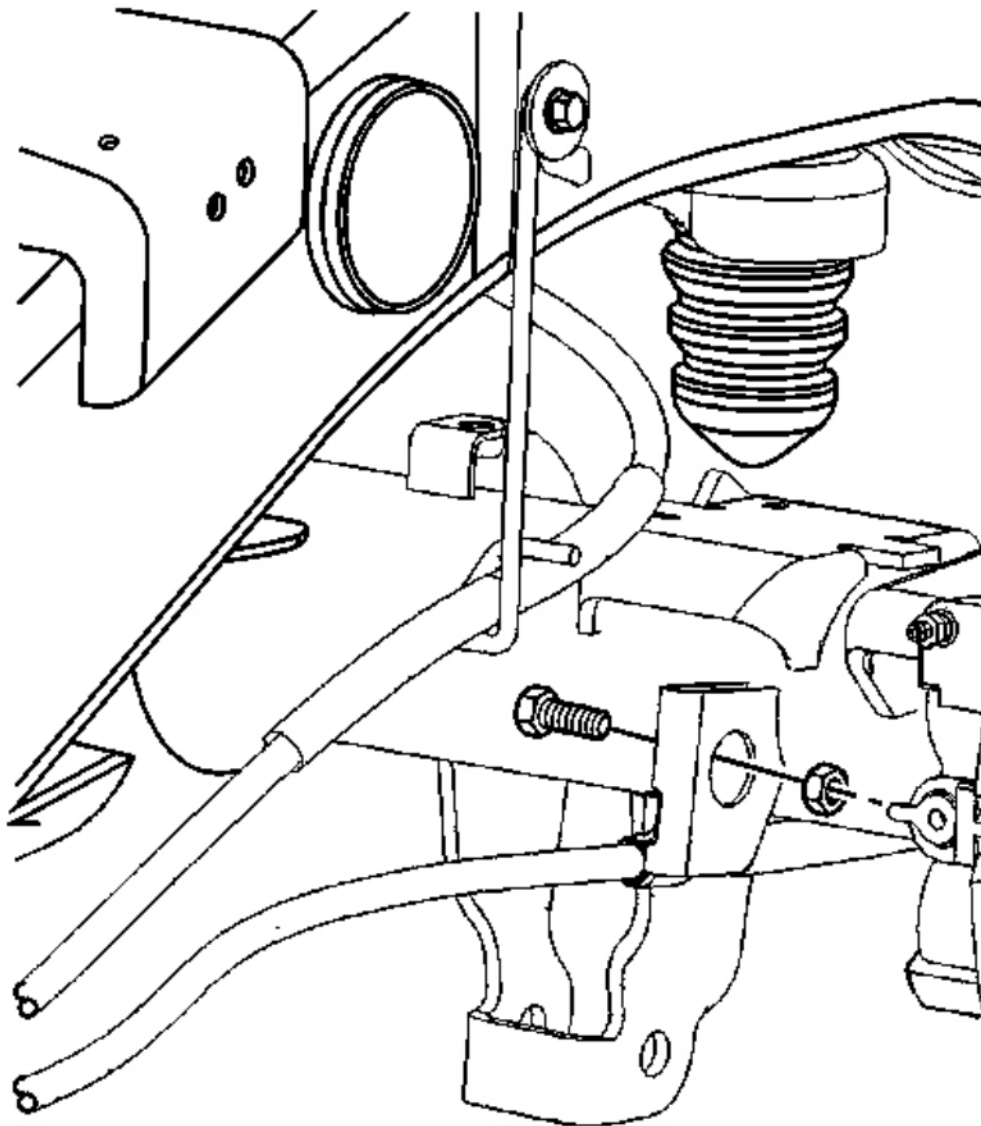


Fig. 20: Park Brake Cable, Shock Absorber Bracket & Bolt - Left Rear (w/o NYS)
Courtesy of GENERAL MOTORS CORP.

NOTE: Refer to Fastener Notice .

4. Position the park brake cable to the rear axle bracket and install the bolt and nut (2500 series).

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

5. Position the park brake cable to the cable guides on the vehicle frame.

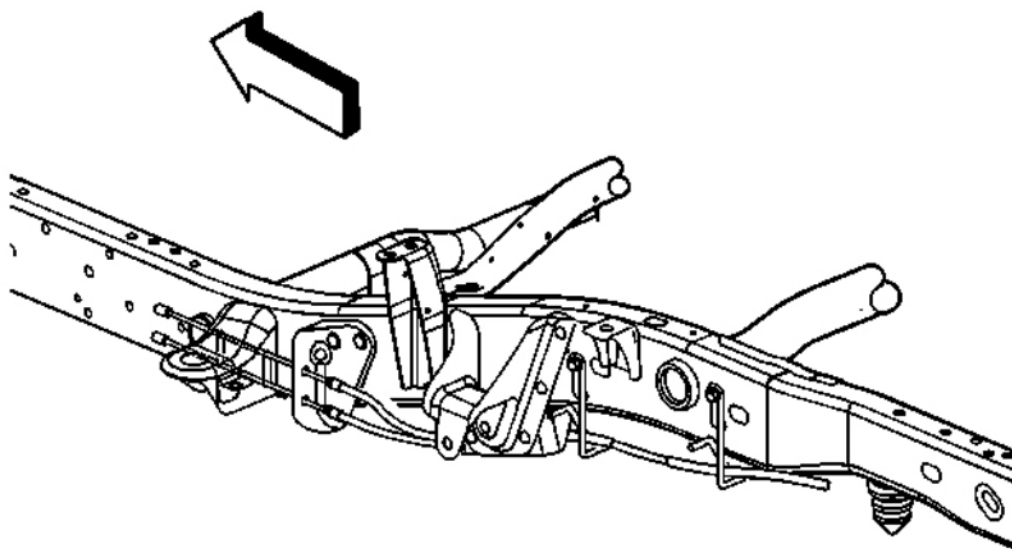


Fig. 21: View of Park Brake Cable & Mounting Bracket
Courtesy of GENERAL MOTORS CORP.

6. Install the cable to the mounting bracket until the tabs lock into place.

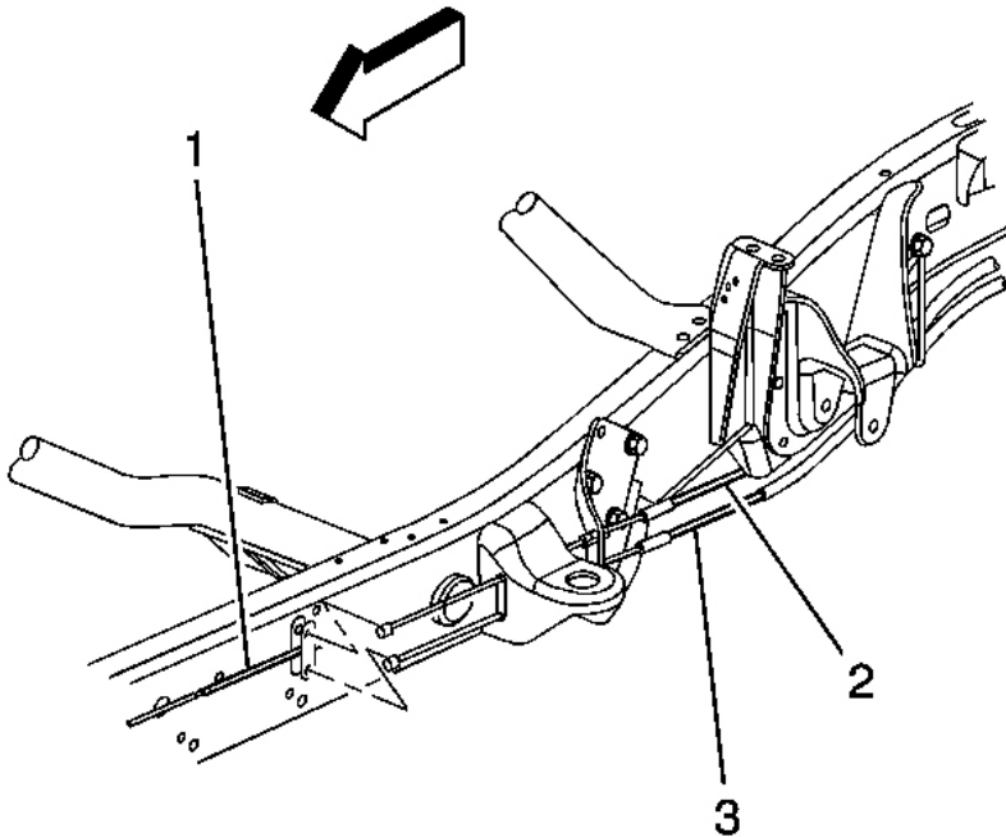


Fig. 22: Park Brake Cables At Equalizer Bar
Courtesy of GENERAL MOTORS CORP.

7. Connect the left rear park brake cable (3) to the intermediate park brake cable (1) equalizer.
8. Lower the vehicle. Refer to **Lifting and Jacking the Vehicle** .
9. Enable the park brake cable automatic adjuster. Refer to **Parking Brake Cable Adjuster Enabling**.
10. Adjust the park brake. Refer to **Park Brake Adjustment**.

PARK BRAKE CABLE REPLACEMENT - RIGHT REAR

Removal Procedure

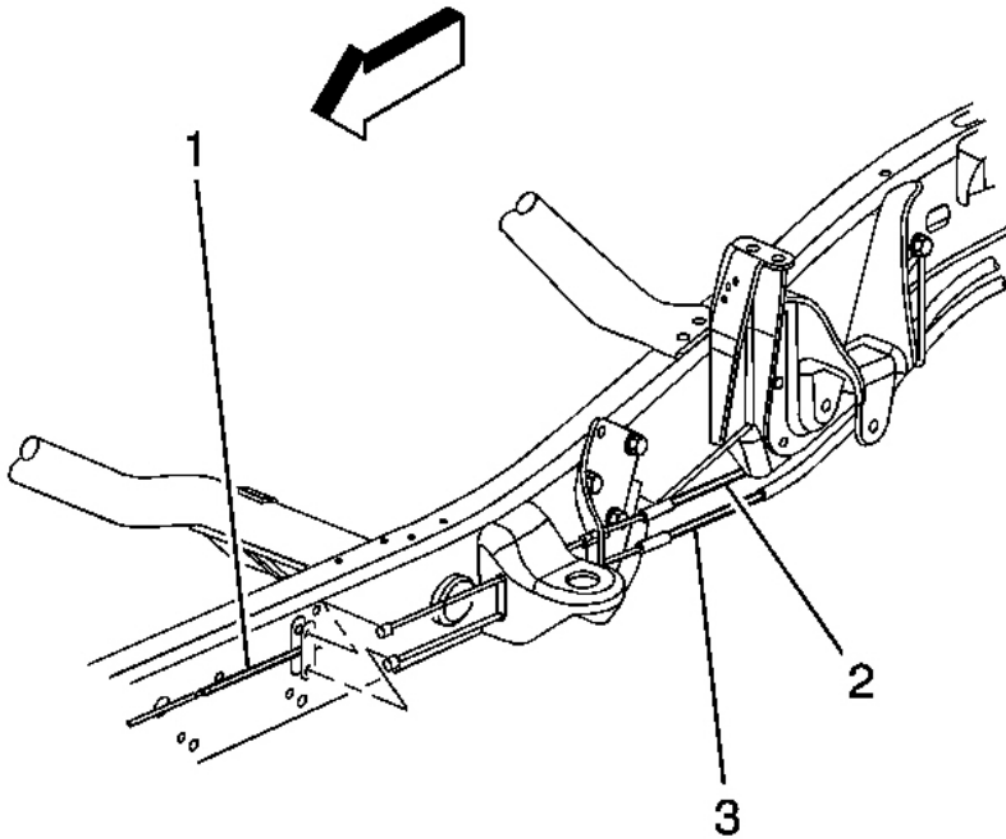


Fig. 23: Park Brake Cables At Equalizer Bar
Courtesy of GENERAL MOTORS CORP.

1. Ensure the park brake is released.
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 rear park brake cable (2) from the equalizer on the intermediate park brake cable (1).

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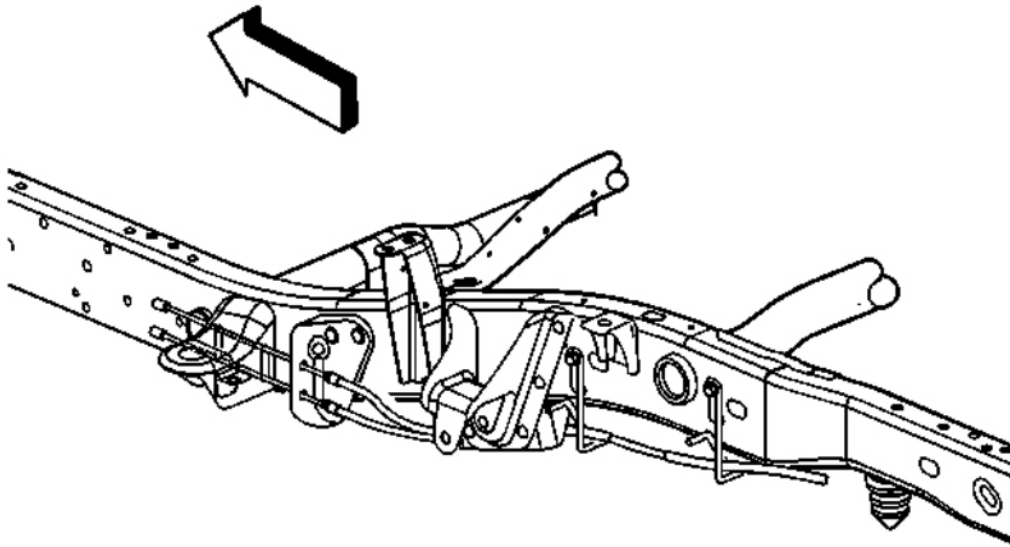


Fig. 24: View of Park Brake Cable & Mounting Bracket
Courtesy of GENERAL MOTORS CORP.

5. Remove the park brake cable from the mounting bracket by depressing the locking tabs.
6. Release the park brake cable from the park brake cable guides on the vehicle frame.

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2007 BRAKES Park Brake - Avalanche, Escalade, Suburban, Tahoe & Yukon

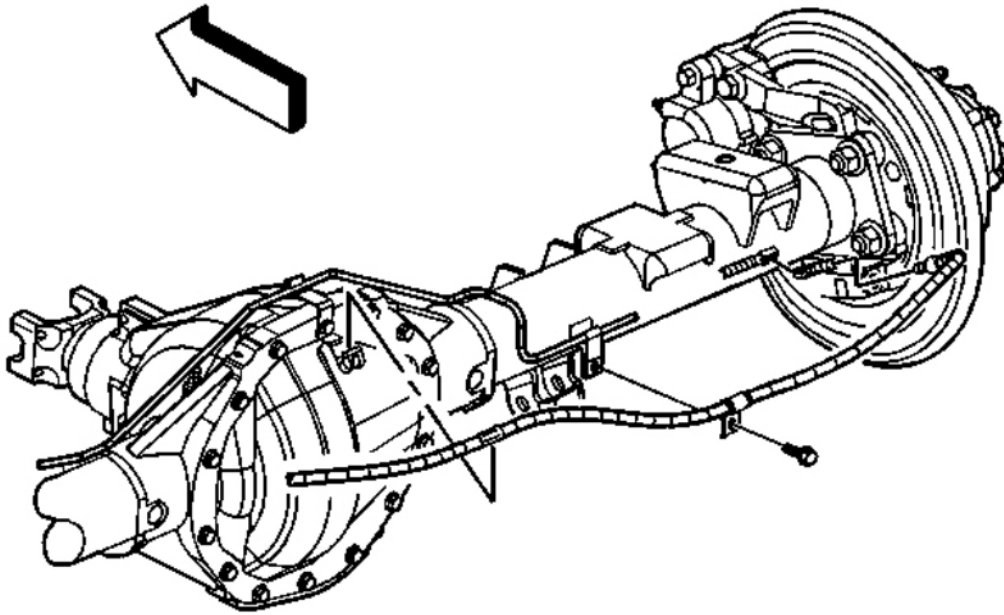


Fig. 25: Identifying Right Park Brake Cable & Differential Clip
Courtesy of GENERAL MOTORS CORP.

7. Remove the bolt from the rear axle clip (2500 series).
8. Release the park brake cable from the differential clip (2500 series).

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2007 BRAKES Park Brake - Avalanche, Escalade, Suburban, Tahoe & Yukon

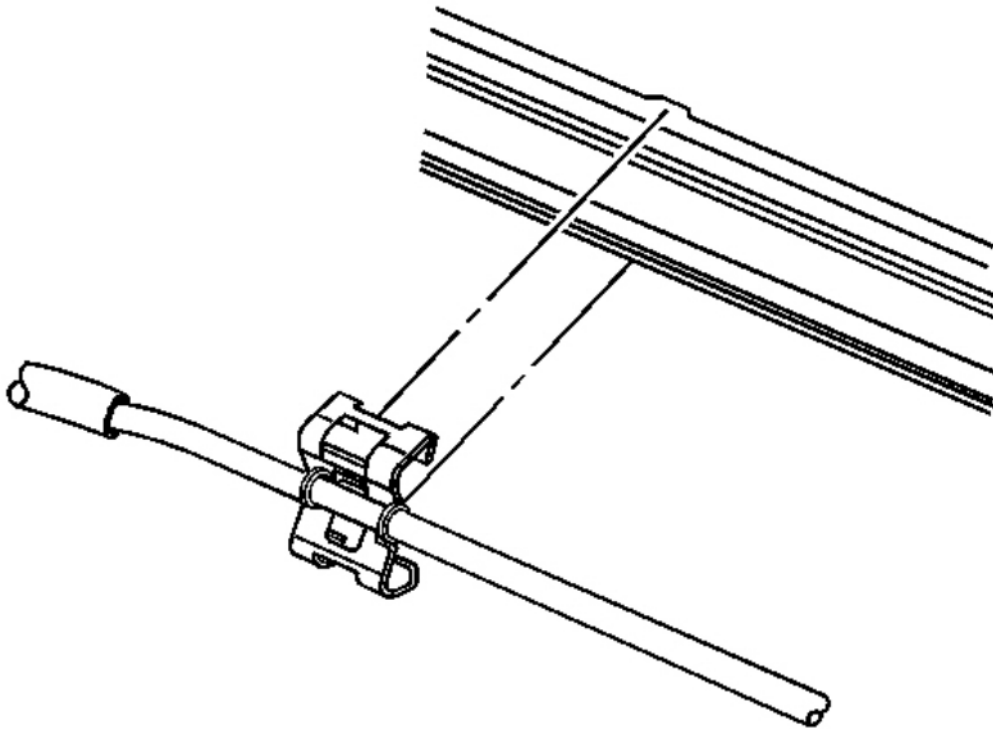


Fig. 26: View Of Park Brake Cable & Cable Guides (W/O RPO NYS - 15 Series)
Courtesy of GENERAL MOTORS CORP.

9. Remove the park brake cable from the track bar clips (1500 series).

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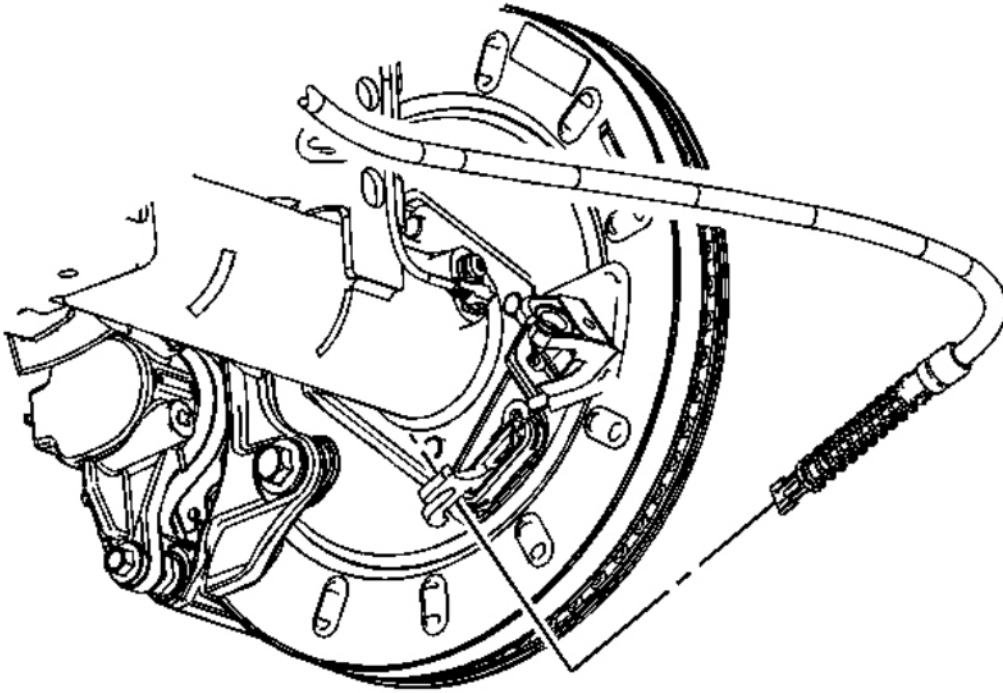


Fig. 27: View Of Correct Park Brake Cable Route
Courtesy of GENERAL MOTORS CORP.

10. Remove the park brake cable from the actuator lever.
11. Remove the cable from the backing plate by depressing the locking tabs.
12. Remove the cable from the retaining bracket.
13. Remove the park brake cable.

Installation Procedure

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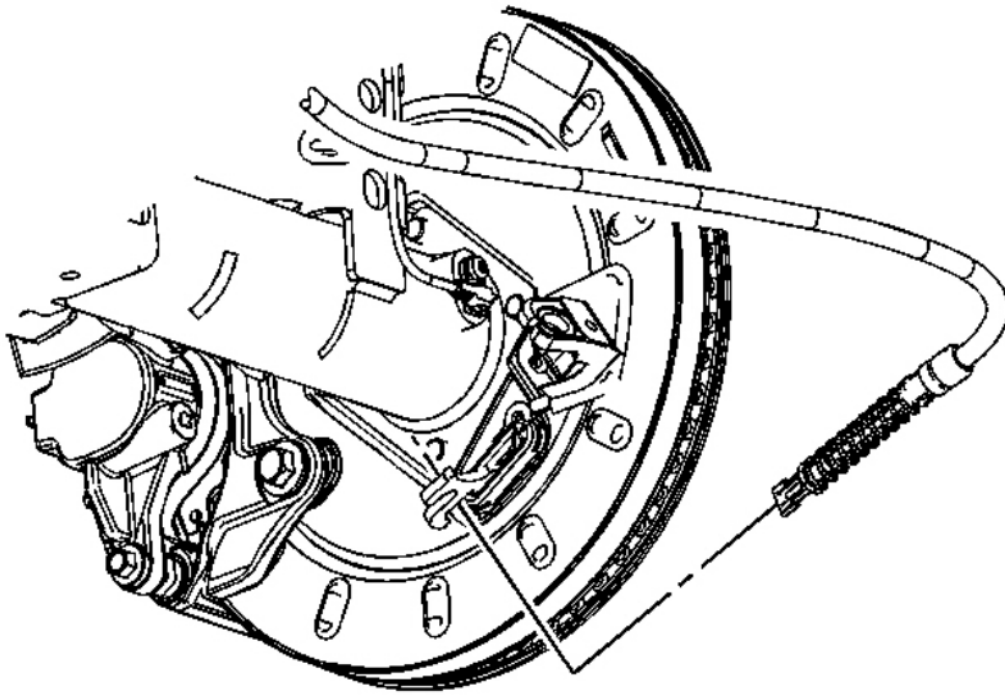


Fig. 28: View Of Correct Park Brake Cable Route
Courtesy of GENERAL MOTORS CORP.

1. Install the park brake cable taking care to correctly route the cable through the guides and the body mounts.
2. Install the park brake cable to the backing plate by pressing the cable into place until the tabs lock into place.
3. Install the cable to the actuator lever.

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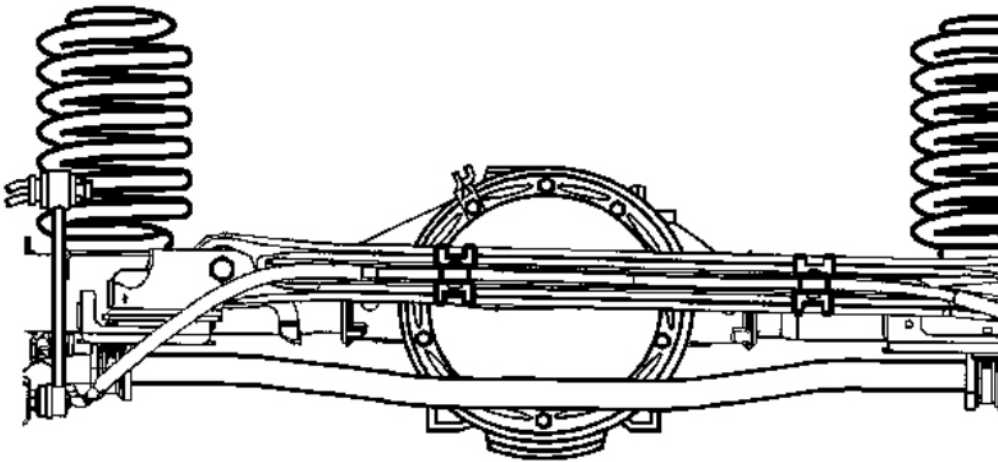


Fig. 29: View Of Park Brake Cable & Clips To Track Bar (W/O RPO NYS - 15 Series)
Courtesy of GENERAL MOTORS CORP.

4. Install the park brake cable to the track bar and secure in place with the clips. Verify the clips are installed between the locators on the track bar (1500 series).
5. Position the park brake cable to the cable guides on the vehicle frame.

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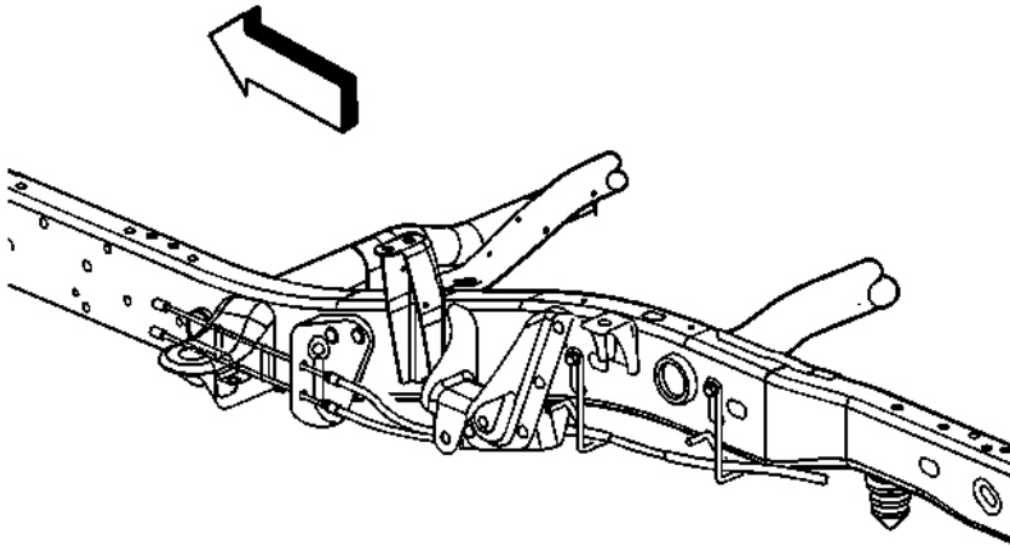


Fig. 30: View of Park Brake Cable & Mounting Bracket
Courtesy of GENERAL MOTORS CORP.

6. Install the park brake cable to the mounting bracket until the tabs lock into place.

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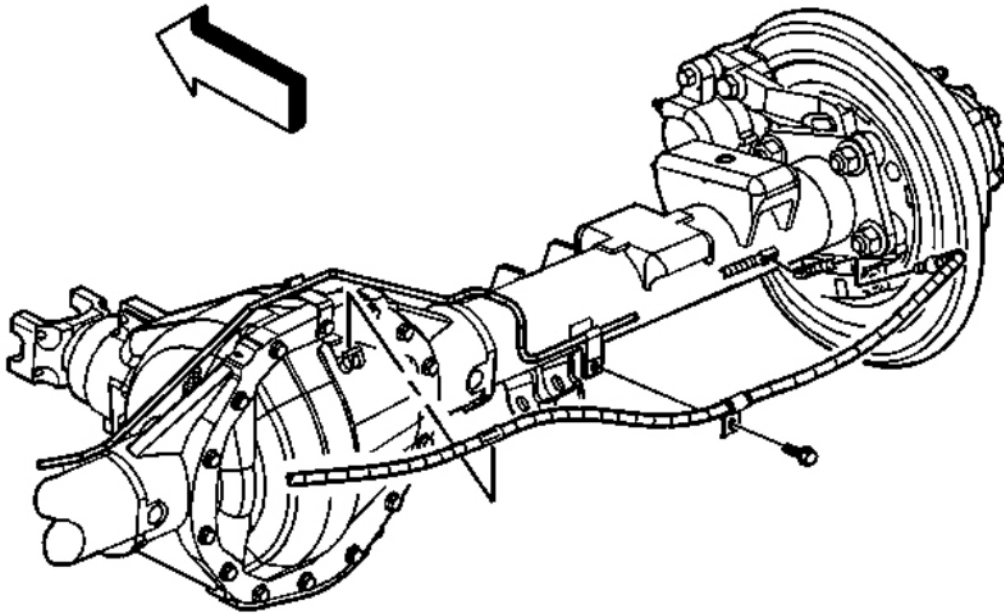


Fig. 31: Identifying Right Park Brake Cable & Differential Clip
Courtesy of GENERAL MOTORS CORP.

NOTE: Refer to Fastener Notice .

7. Install the bolt to the rear axle cable clip (2500 series).

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

IMPORTANT: After installing the cable to the rear axle holding clip, verify the clip is securely retaining the cable. If not, crimp the clip by hand taking care not to pinch or kink the cable.

8. Install the cable to the differential clip (2500 series).

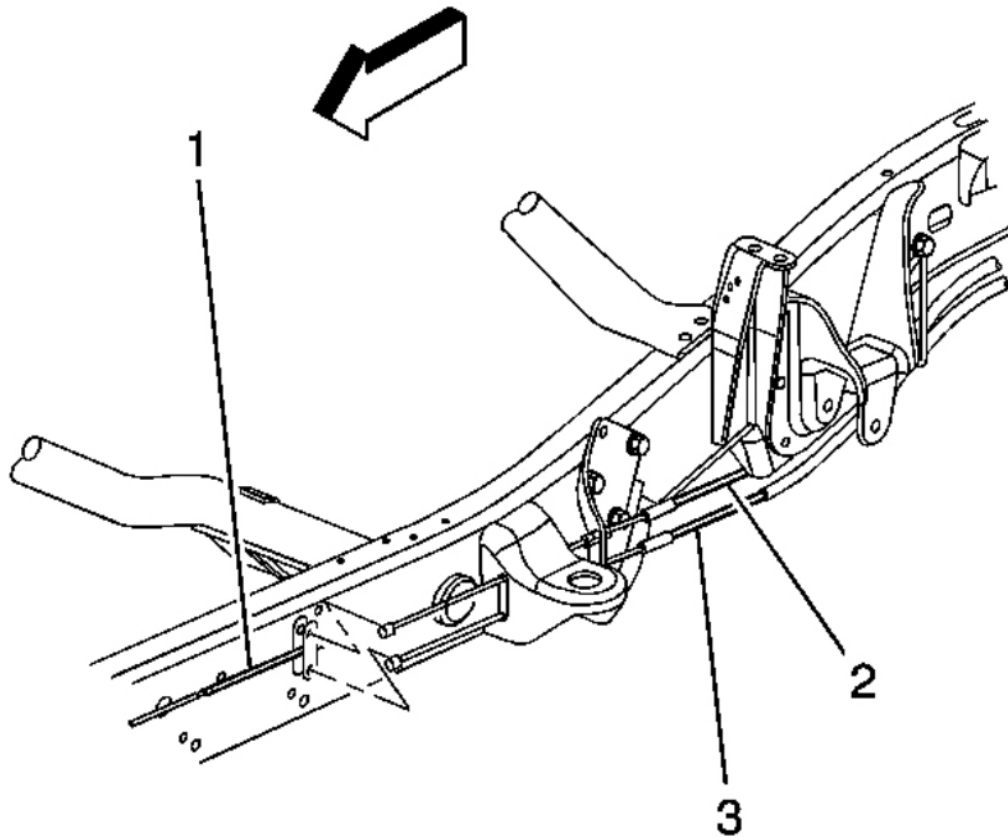


Fig. 32: Park Brake Cables At Equalizer Bar
Courtesy of GENERAL MOTORS CORP.

9. Connect the right rear park brake cable (2) to the intermediate park brake cable (1) equalizer.
10. Lower the vehicle. Refer to **Lifting and Jacking the Vehicle** .
11. Enable the park brake cable automatic adjuster. Refer to **Parking Brake Cable Adjuster Enabling**.
12. Adjust the park brake. Refer to **Park Brake Adjustment**.

PARK BRAKE CABLE GUIDE REPLACEMENT

Removal Procedure

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

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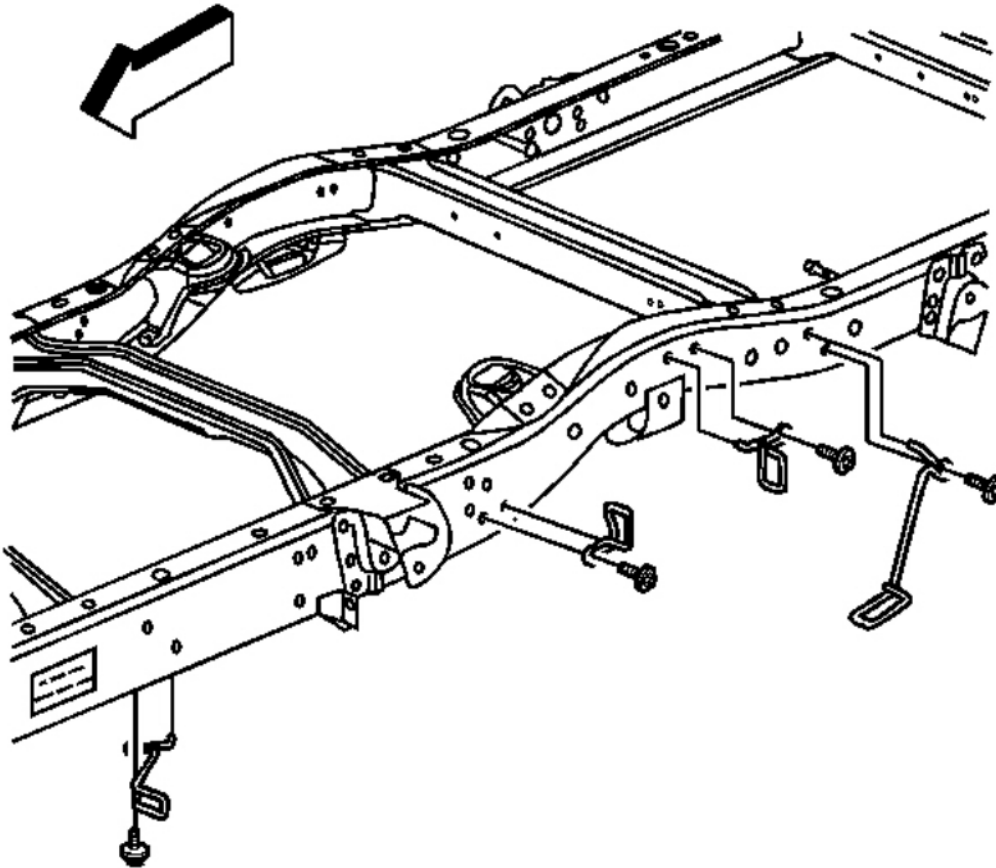


Fig. 33: View Of Park Brake Cable Guide Bolt (Cutaway Vehicle)
Courtesy of GENERAL MOTORS CORP.

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

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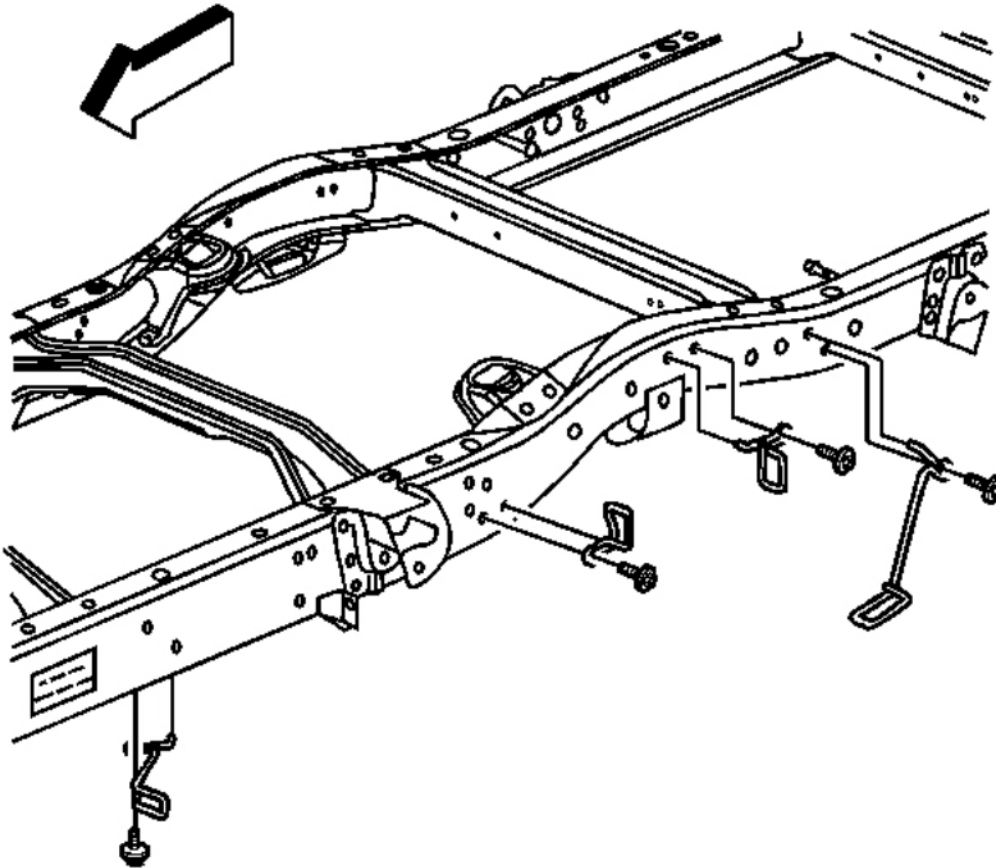


Fig. 34: View Of Park Brake Cable Guide Bolt (Cutaway Vehicle)
Courtesy of GENERAL MOTORS CORP.

NOTE: Refer to Fastener Notice .

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

Tighten: Tighten the bolt to 12 N.m (13 lb ft).

4. Remove the safety stands.
5. 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.

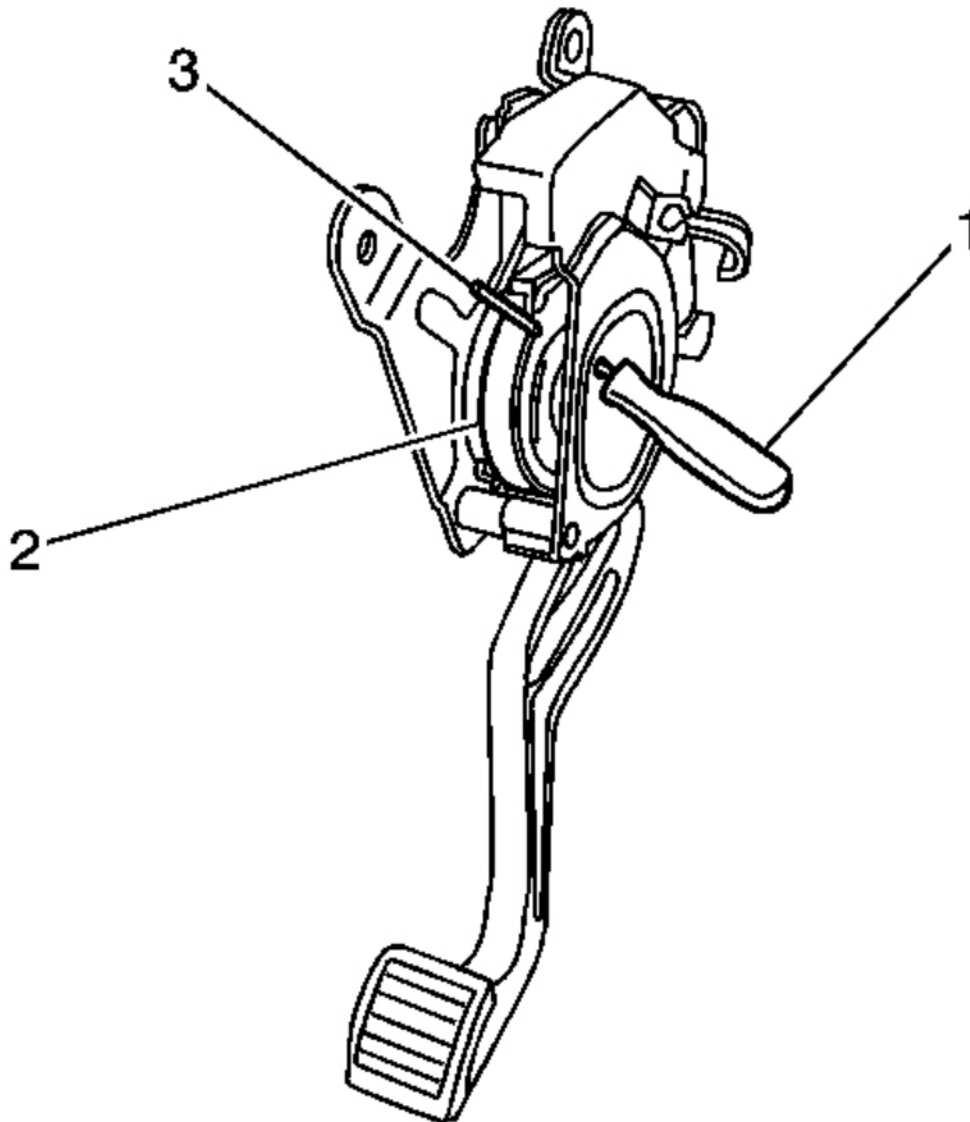


Fig. 35: Screwdriver, Pedal Drum & Pedal Assembly
Courtesy of GENERAL MOTORS CORP.

1. Raise and support the vehicle. Refer to **Lifting and Jacking the Vehicle** .
2. Hold the pedal in the FULL upward position.

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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.

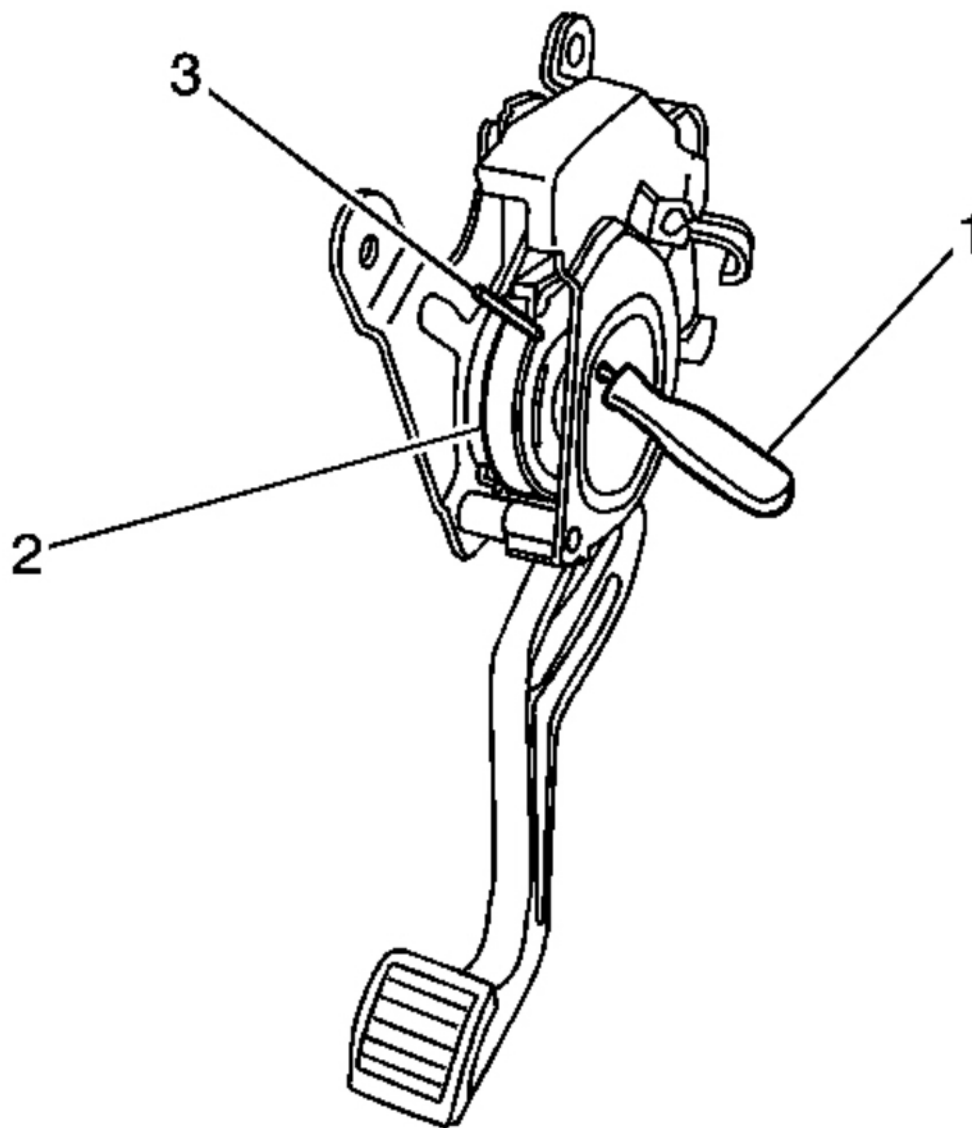


Fig. 36: Screwdriver, Pedal Drum & Pedal Assembly
Courtesy of GENERAL MOTORS CORP.

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.

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5. Release the park brake pedal.
6. Lower the vehicle.
7. Apply and release the park brake pedal 3 times.

PARKING BRAKE ACTUATOR REPLACEMENT (1500 SERIES)

Removal Procedure

CAUTION: Refer to Brake Dust Caution .

1. Release the park brake.
2. Disable the park brake cable automatic adjuster. Refer to Parking Brake Cable Adjuster Disabling.

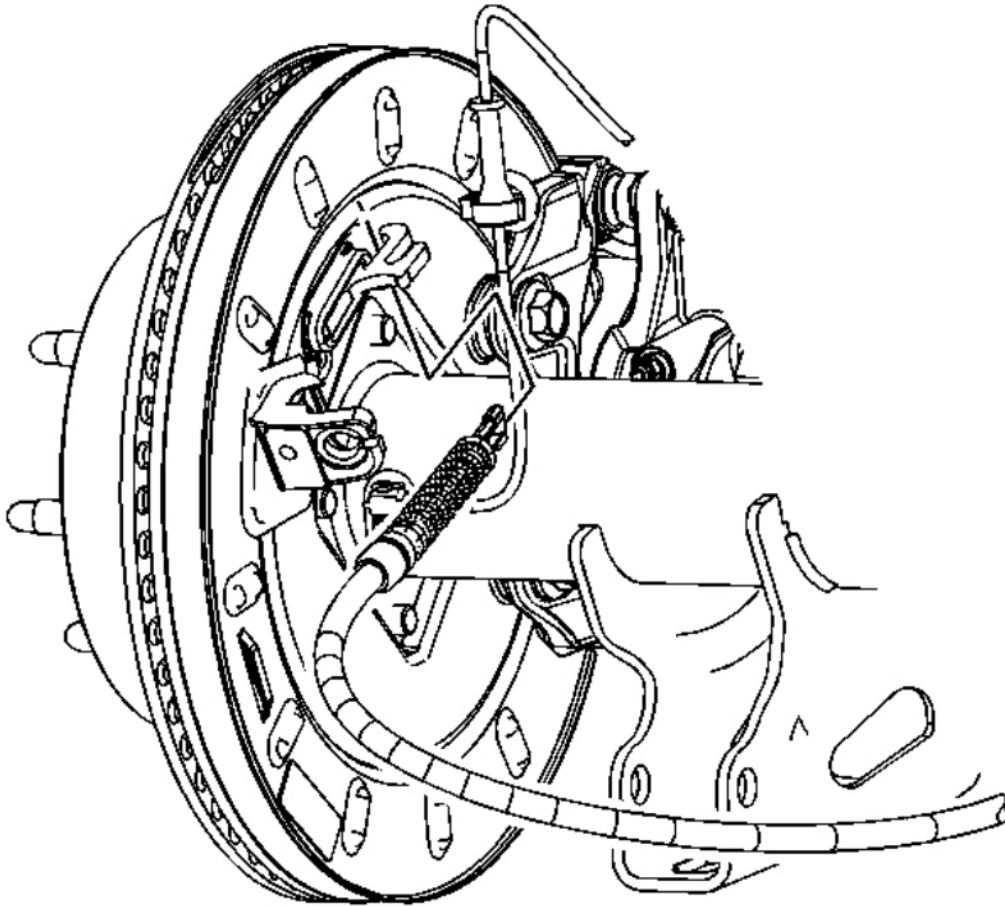


Fig. 37: View Of Park Brake Cable & Actuator Lever
Courtesy of GENERAL MOTORS CORP.

3. Disconnect the park brake cable from the park brake actuator lever.
4. Remove the park brake shoe. Refer to **Park Brake Shoe Replacement (1500 Series)** or **Park Brake Shoe Replacement (2500 Series)**.
5. Remove the park brake actuator adjuster wheel, pin and lever from the backing plate.

Installation Procedure

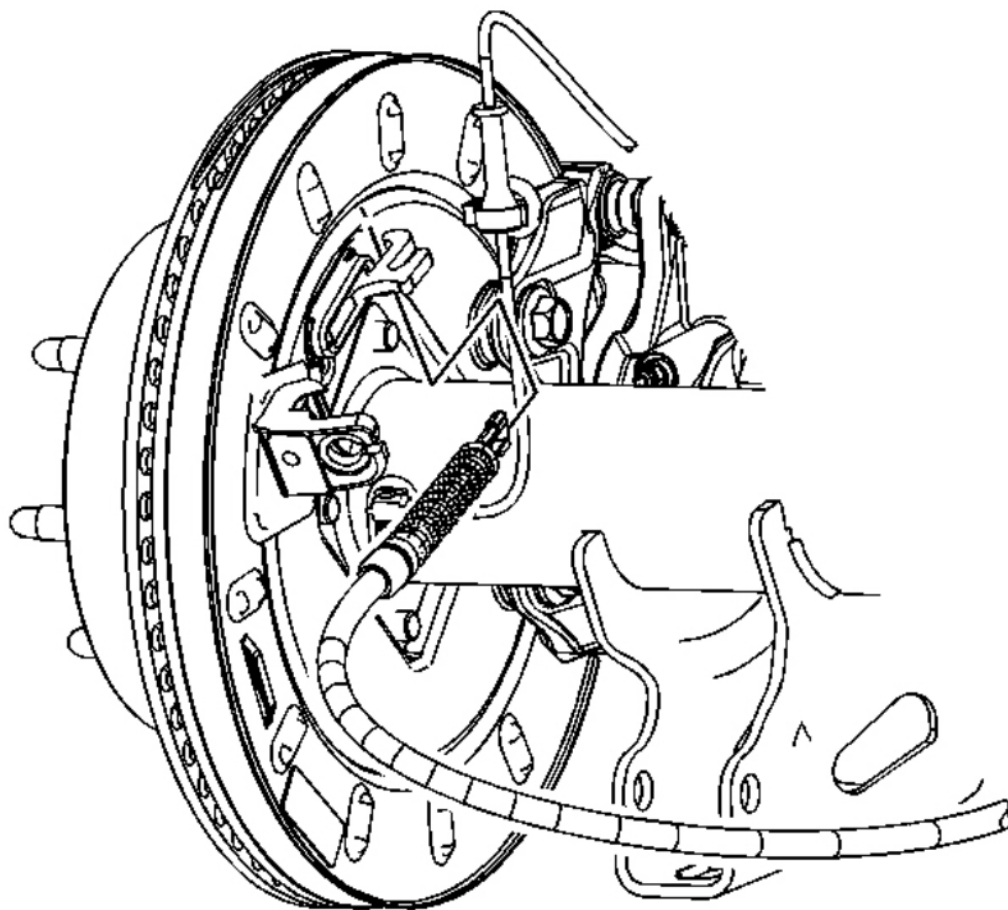


Fig. 38: View Of Park Brake Cable & Actuator Lever
Courtesy of GENERAL MOTORS CORP.

1. Install the park brake actuator lever, pin and adjuster wheel to the backing plate.
2. Install the park brake shoe. Refer to **Park Brake Shoe Replacement (1500 Series)** or **Park Brake Shoe Replacement (2500 Series)**.
3. Adjust the park brake shoe. Refer to **Park Brake Adjustment**.
4. Install the rear park brake cable to the park brake actuator lever.
5. Install the park brake cable to the mounting bracket until the locking tabs snap into place.
6. Enable the park brake cable automatic adjuster. Refer to **Parking Brake Cable Adjuster Enabling**.
7. Apply and release the park brake lever 3 times.

PARKING BRAKE ACTUATOR REPLACEMENT (2500 SERIES)

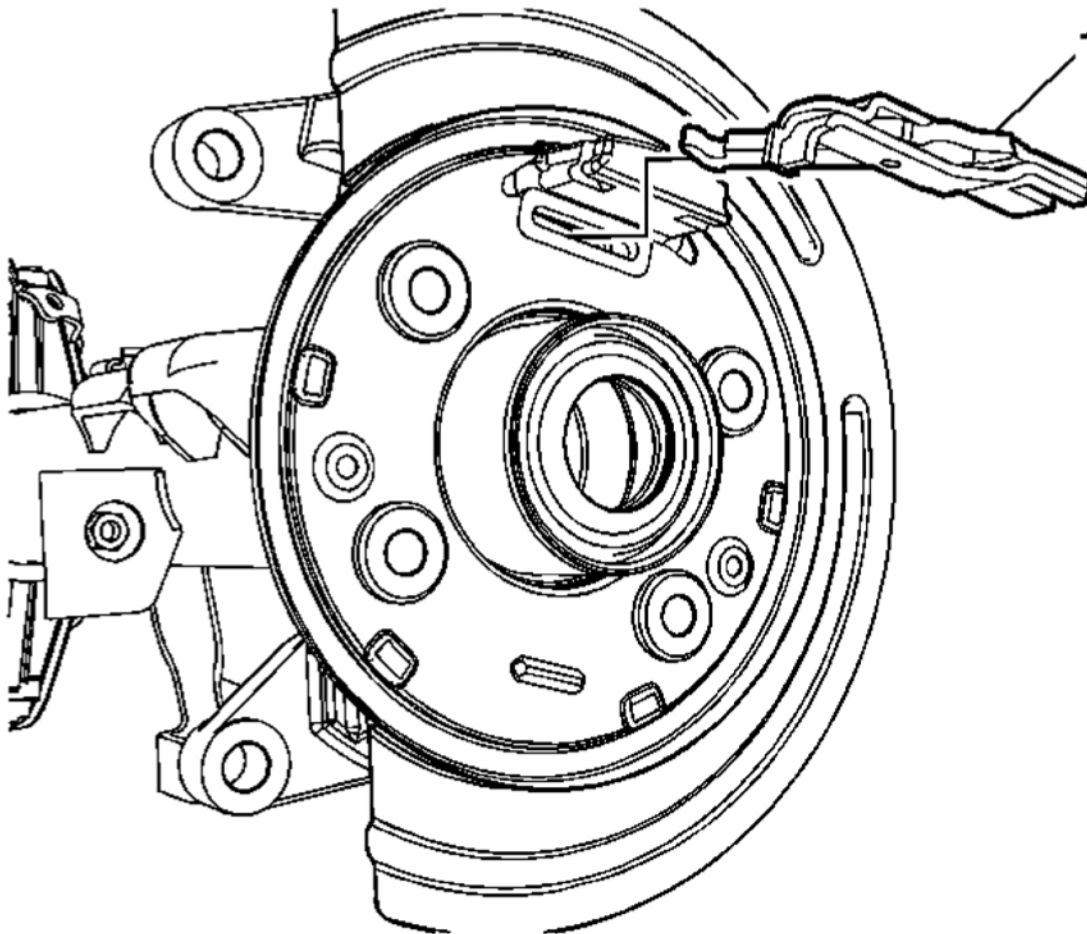


Fig. 39: View Of Park Brake Shoe Actuator
Courtesy of GENERAL MOTORS CORP.

Parking Brake Actuator Replacement (2500 Series)

Callout	Component Name
CAUTION: Refer to <u>Brake Dust Caution</u> .	
Preliminary Procedures	
1. Raise and support the vehicle. Refer to <u>Lifting and Jacking the Vehicle</u> . 2. Remove the park brake shoes. Refer to <u>Park Brake Shoe Replacement (1500 Series)</u> or <u>Park Brake Shoe Replacement (2500 Series)</u> . 3. Disable the park brake cable automatic adjuster. Refer to <u>Parking Brake Cable Adjuster Disabling</u> . 4. Disconnect the park brake cable from the actuator.	
	Actuator, Park Brake Shoe

1

Tip: Enable the park brake cable automatic adjuster. Refer to Parking Brake Cable Adjuster Enabling.

PARK BRAKE BACKING PLATE REPLACEMENT

CAUTION: Refer to Brake Dust Caution .

Removal Procedure

1. Disable the park brake cable automatic adjuster. Refer to Parking Brake Cable Adjuster Disabling.

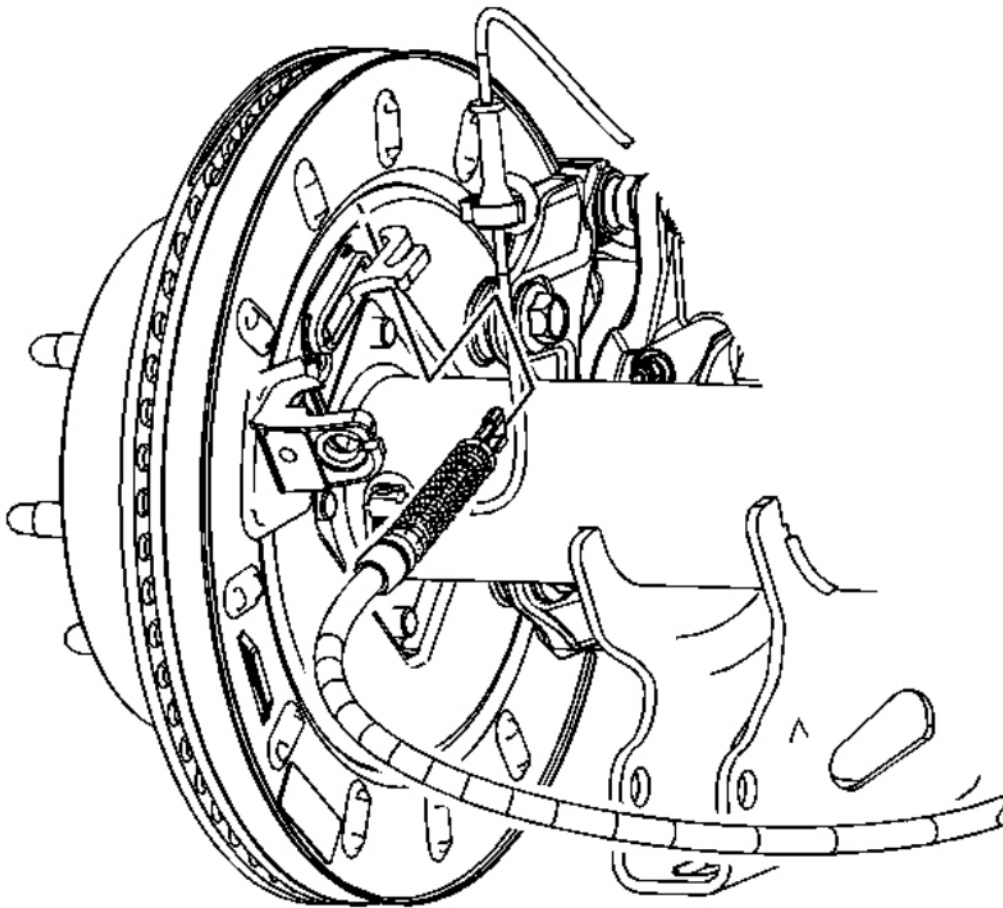


Fig. 40: View Of Park Brake Cable & Actuator Lever
Courtesy of GENERAL MOTORS CORP.

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2. Disconnect the park brake cable from the park brake actuator lever.
3. Remove the park brake shoe. Refer to **Park Brake Shoe Replacement (1500 Series)** or **Park Brake Shoe Replacement (2500 Series)**.
4. Remove the rear axle shaft. Refer to **Rear Axle Shaft Replacement (8.6, 9.5 LD Axle)** or **Rear Axle Shaft Replacement (9.5 HD Axle)**.

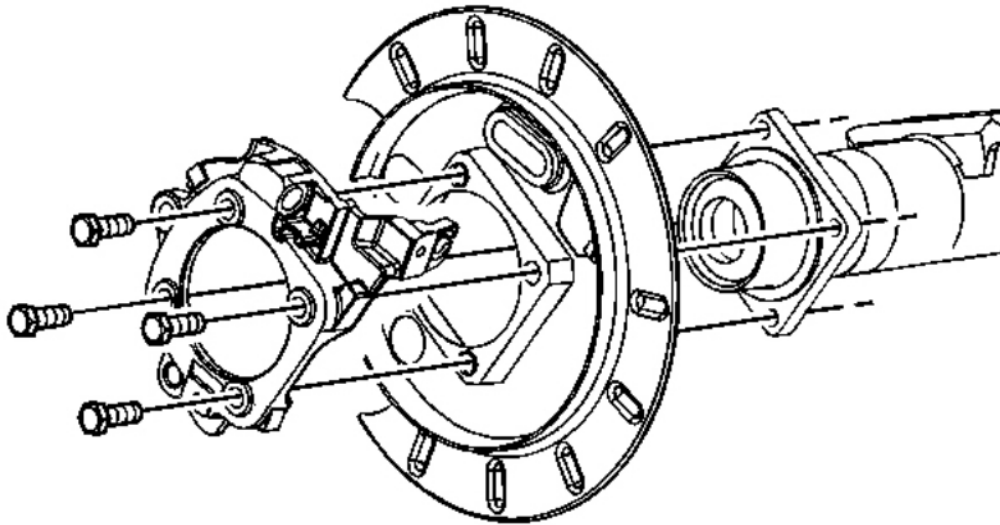


Fig. 41: Park Brake Backing Plate & Bolts
Courtesy of GENERAL MOTORS CORP.

5. Remove the park brake backing plate bolts.
6. Remove the park brake backing plate from the disc brake backing plate.

Installation Procedure

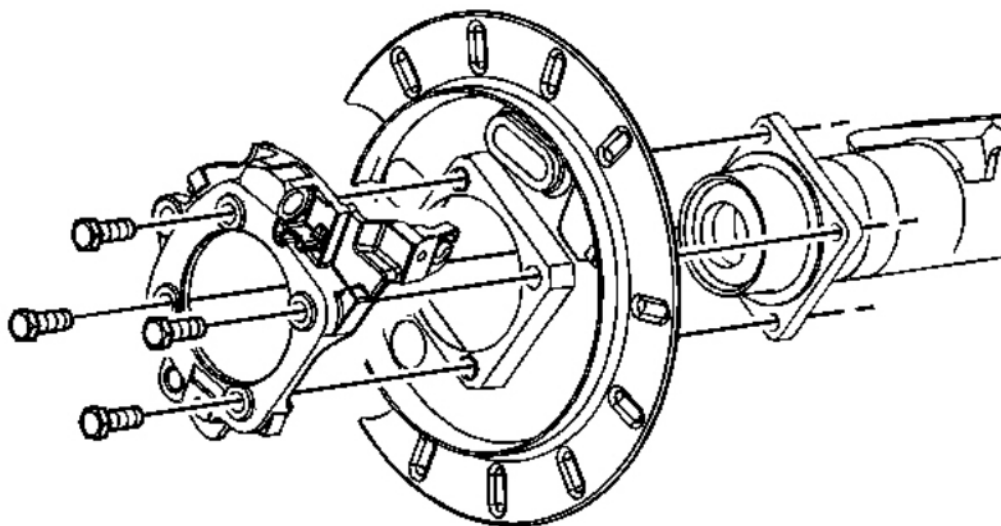


Fig. 42: Park Brake Backing Plate & Bolts
Courtesy of GENERAL MOTORS CORP.

1. Install the park brake backing plate to the disc brake backing plate.
2. Perform the following procedure before installing the park brake backing plate bolts.
 1. Remove all traces of the original adhesive patch.
 2. Clean the threads of the bolt with brake parts cleaner or the equivalent and allow to dry.
 3. Apply Threadlocker GM P/N 12345493 (Canadian P/N 10953488) to the threads of the bolt.

NOTE: Refer to Fastener Notice .

3. Install the park brake backing plate bolts.

Tighten: Tighten the bolts to 135 N.m (100 lb ft).

4. Install the rear axle shaft. Refer to Rear Axle Shaft Replacement (8.6, 9.5 LD Axle) or Rear Axle Shaft Replacement (9.5 HD Axle) .
5. Install the park brake shoe. Refer to Park Brake Shoe Replacement (1500 Series) or Park Brake Shoe Replacement (2500 Series).

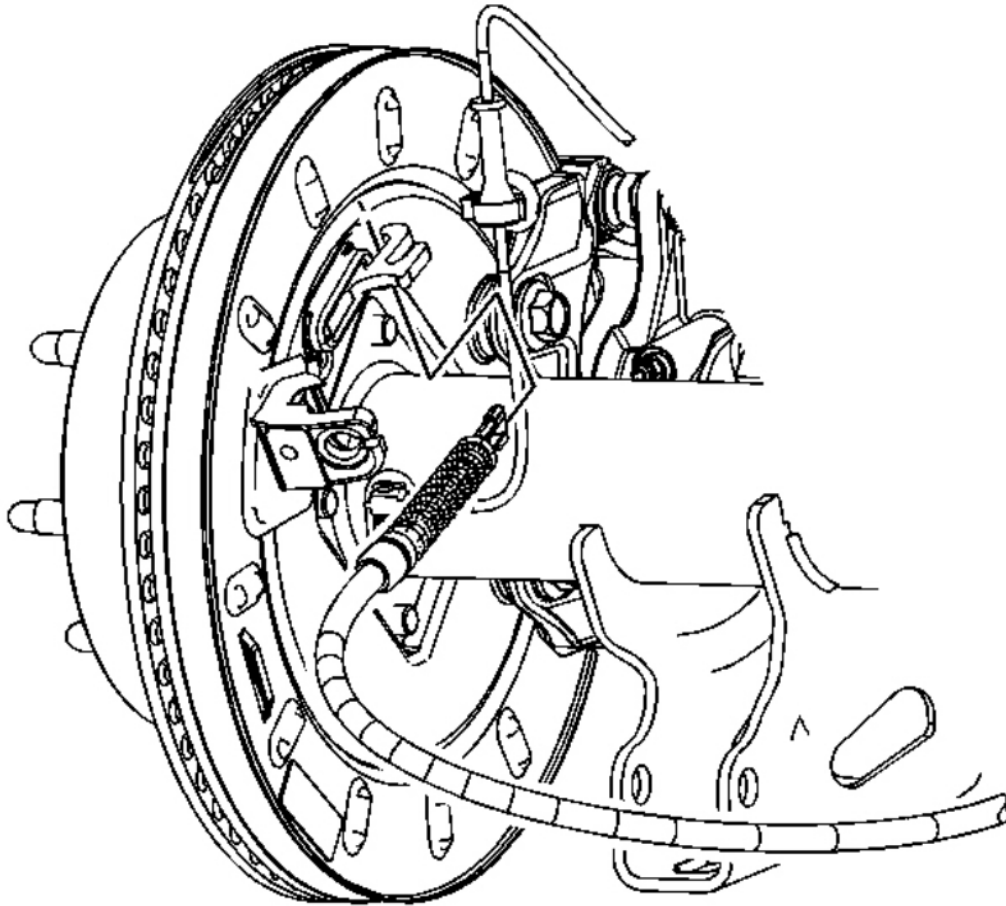


Fig. 43: View Of Park Brake Cable & Actuator Lever
Courtesy of GENERAL MOTORS CORP.

6. Connect the park brake cable to the park brake actuator lever.
7. Enable the park brake cable automatic adjuster. Refer to **Parking Brake Cable Adjuster Enabling**.
8. Adjust the park brake shoe. Refer to **Park Brake Adjustment**.

PARK BRAKE ADJUSTMENT

Tools Required

J 21177-A Drum-to-Brake Shoe Clearance Gage. See **Special Tools**.

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.

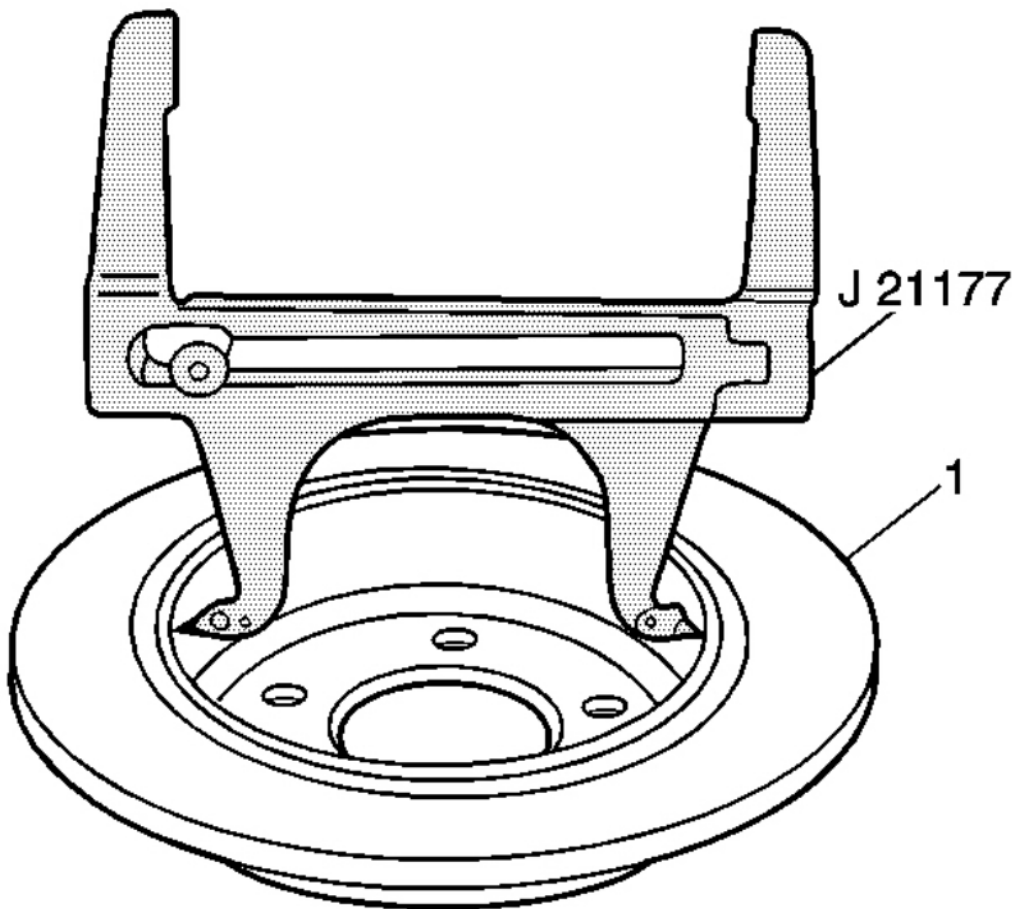


Fig. 44: Measuring Inside Of Rotor
Courtesy of GENERAL MOTORS CORP.

1. Set the J 21177-A so that it contacts the inside diameter of the rotor. See Special Tools.

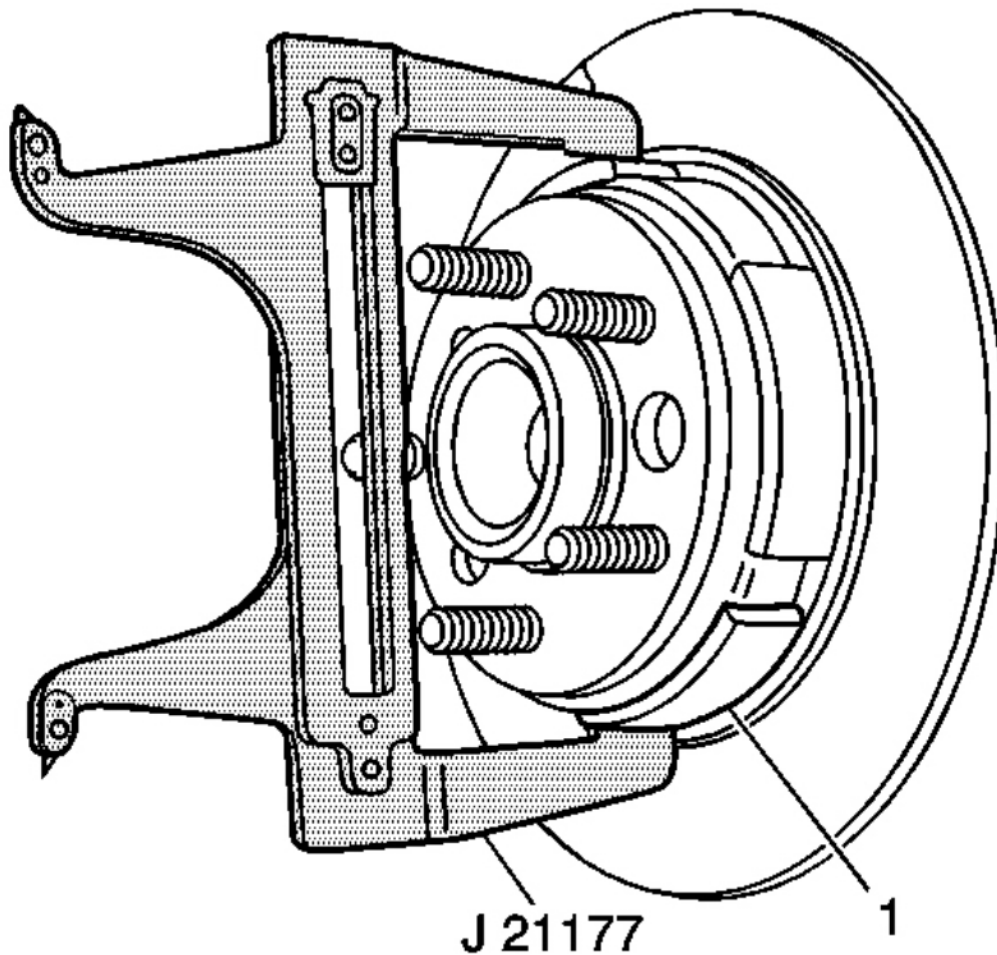


Fig. 45: Adjusting Parking Brake Shoes Using Special Tool
Courtesy of GENERAL MOTORS CORP.

2. Position the **J 21177-A** over the shoe and the lining at the widest point. See **Special Tools**.
3. Turn the adjuster nut until the lining just contacts the **J 21177-A** . See **Special Tools**.
4. Repeat steps 1-3 for the opposite side.
5. The clearance between the park brake shoe and the rotor is 0.6604 mm (0.026 in).

Park Brake Cable Tension Adjustment

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

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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

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

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

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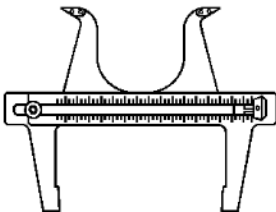
System Operation

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

Special Tools

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