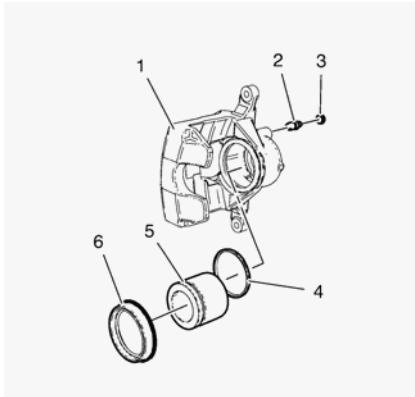


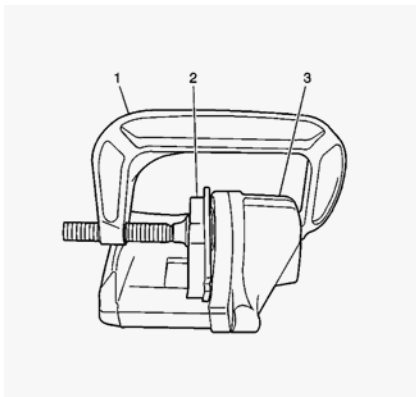
2013 Chevrolet Colorado

Submodel: | Engine Type: | Liters:
Fuel Delivery: | Fuel:



Warning: Refer to Brake Dust Warning.

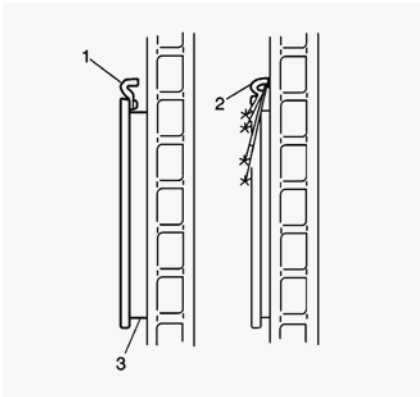
1. Inspect the brake caliper housing (1) for cracks, excess wear, and/or damage. If any of these conditions are present, the brake caliper requires replacement.
 2. Inspect the brake caliper bleeder valve (2) for damage and/or excessive corrosion. If any of these conditions exist, the brake caliper bleeder valve requires replacement.
 3. Ensure the brake caliper bleeder valve cap (3) is installed.
 4. Inspect the caliper piston seal (4) and the caliper piston (5).
- Lift the inner edge of the dust seal (6)
 - Inspect the caliper piston for damage and/or excessive corrosion
 - Inspect for brake fluid leakage from the caliper piston seal
 - . If any of these conditions are present, the brake caliper requires overhaul or replacement.
 - Inspect the dust seal for the following conditions:
 - Cracks, tears, cuts, deterioration and/or improper seating in the caliper body
 - Brake fluid leakage around the dust seal
 - . If any of these conditions are present, the brake caliper requires overhaul or replacement.



- Position a large C-clamp (1) against a block of wood or discarded brake pad (2) and over the brake caliper housing (3).
- Using the C-clamp, slowly compress the piston into the brake caliper bore.
- The movement of the caliper piston should be smooth even.
- If the caliper piston does not move or is difficult to fully compress, the brake caliper requires overhaul or replacement.

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Warning: Refer to Brake Dust Warning.

1. Inspect the disc brake pads at regular intervals, or whenever the tire and wheel assemblies are removed from the vehicle.
2. If replacement is necessary, always replace disc brake pads in axle sets.
3. Inspect both edges of the disc brake pad friction surfaces (3). The highest rate of wear normally occurs at the trailing edge of the disc brake pad.
4. Inspect the thickness of the disc brake pads (3) in order to ensure that they have not worn prematurely. The disc brake pad wear should be even per axle set.
5. Both front and rear disc brake pads have integral, audible wear sensors (1). When the disc brake pad wear reaches the minimum allowable thickness, the wear sensor contacts the disc brake rotor (2). The wear indicator will then produce an audible, high-pitched warning noise during wheel rotation.
6. Replace the disc brake pads when the friction surface (3) is worn to within 0.76 mm (0.030 in) of the mounting plates.
7. Remove the brake calipers and inspect the friction surfaces of the inner and outer disc brake pads to ensure that they are level. Place the disc brake pads together and measure the gap between the surfaces. If more than 0.13 mm (0.005 in) gap exists midway between the length of the brake pads, replace the disc brake pads.
8. Verify that any disc brake pad shims that may be required are in place and not damaged or excessively corroded. Replace any missing or damaged shims in order to preserve proper disc brake performance.
9. Replace the disc brake pads if any have separated from the mounting plates.
10. Inspect the disc brake pads friction surfaces for cracks, fractures, or damage which may cause noise or otherwise impair disc brake performance.

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Special Tools

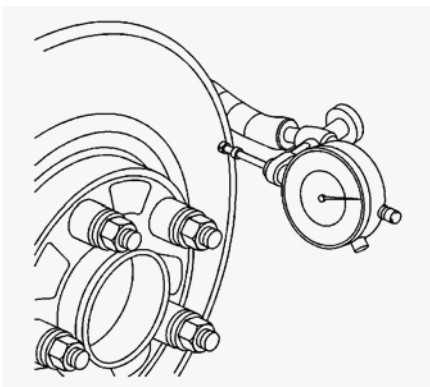
GE-8001 Dial Indicator Set

For equivalent regional tools, refer to Special Tools.

Warning: Refer to Brake Dust Warning.

Note:

- Brake rotor assembled lateral runout (LRO) exceeding the maximum allowable specification can cause thickness variation to develop in the brake usually between 4 800–11 300 km (3,000–7,000 mi).
- Brake rotor thickness variation **MUST** be checked **BEFORE** checking for assembled lateral runout (LRO). Thickness variation exceeding the max acceptable level can cause brake pulsation. Refer to Brake Rotor Thickness Variation Measurement.
 1. If the brake rotor has been **REFINISHED** or **REPLACED** with a new rotor, proceed to step 7.
 2. If the brake rotor meets the following criteria, proceed to step 3.
 - The rotor is within specifications and is being **REUSED**.
 - The rotor has **NOT** been refinished.
 - The rotor does **NOT** exhibit thickness variation exceeding the maximum allowable level.



- Mount a dial indicator, *GE-8001* Dial Indicator Set, or equivalent, to the vehicle and position the indicator button so it contacts the brake rotor from 90 degree angle, approximately 13 mm (0.5 in) from the outer edge of the rotor.
- Measure and record the assembled LRO of the brake rotor.

1. Rotate the rotor until the lowest reading is displayed on the indicator dial, then set the dial to zero.
2. Rotate the rotor until the highest reading is displayed on the dial.
3. Mark the location of the high spot relative to the nearest wheel stud, or studs.
4. Measure and record the amount of LRO.

- Compare the brake rotor assembled LRO to the following specification:

Specification

Brake rotor maximum allowable assembled lateral runout: 0.075 mm (0.003 in)

- If the brake rotor assembled LRO exceeds the specification, refinish the rotor to ensure true parallelism. Refer to Brake Rotor Refinishing. After rotor, proceed to step 14.
- Mount a dial indicator, *GE-8001* Dial Indicator Set, or equivalent, to the steering knuckle and position the indicator button so it contacts the brake surface at a 90 degree angle, approximately 13 mm (0.5 in) from the outer edge of the rotor.
- Measure and record the assembled LRO of the brake rotor.

1. Rotate the rotor until the lowest reading is displayed on the indicator dial, then set the dial to zero.
2. Rotate the rotor until the highest reading is displayed on the dial.
3. Mark the location of the high spot relative to the nearest wheel stud, or studs.
4. Measure and record the amount of LRO.

- Compare the brake rotor assembled LRO to the following specification:

Specification

Brake rotor maximum allowable assembled lateral runout: 0.075 mm (0.003 in)

- If the brake rotor assembled LRO measurement exceeds the specification, bring the LRO to within specifications.

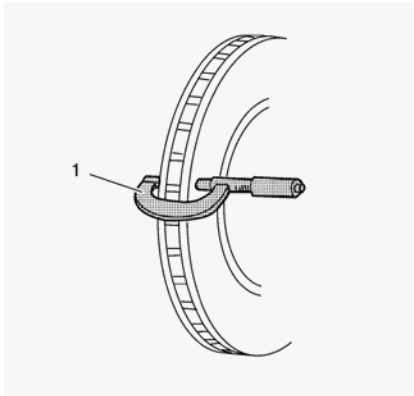
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Warning: Refer to Brake Dust Warning.

1. If the inboard friction surface of the brake rotor is not accessible, reposition and support the caliper with the brake pads. Refer to Front Disc Brake Pads Replacement and/or Rear Disc Brake Pads Replacement.
2. Clean the friction surfaces of the brake rotor with denatured alcohol, or an equivalent approved brake cleaner.
3. Inspect the friction surfaces of the brake rotor for the following Braking Surface Conditions:
 - Heavy rust and/or pitting
 - Light surface rust can be removed with an abrasive disc. Heavy surface rust and/or pitting must be removed by refinishing the rotor.
 - Cracks and/or heat spots
 - Excessive blueing discoloration
- If the friction surfaces of the brake rotor exhibit one or more of the Braking Surface Conditions, the rotor requires refinishing or replacement.



- Using a micrometer (1) calibrated in thousandths-of-a-millimeter, or ten-thousandths-of-an-inch, measure and record the scoring depth of any grooves on the rotor friction surfaces.
- Compare the groove scoring depth recorded to the following specification:

Specification

Brake rotor maximum allowable scoring: 1.50 mm (0.059 in)

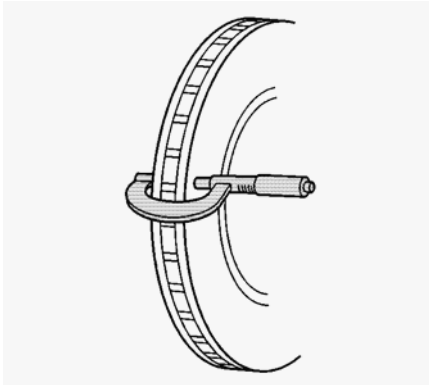
- If the brake rotor scoring depth exceeds the specification, or if an excessive amount of scoring is present, the rotor requires refinishing or replacement.

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Warning: Refer to Brake Dust Warning.



1. Clean the brake pad lining contact surface of the brake rotor with denatured alcohol or an equivalent brake cleaner.
2. Using a micrometer calibrated in ten-thousandths of a millimeter or ten-thousandths of an inch, measure and record the lowest thickness of the four or more points, equally spaced around the rotor.

Ensure that the measurements are only taken within the brake pad lining contact area and that the micrometer is positioned the same distance outside edge of the rotor for each measurement.

3. Compare the lowest thickness measurement recorded to the specifications. Refer to Disc Brake Component Specifications.
4. If the lowest thickness measurement of the brake rotor is above the brake rotor minimum thickness specification; the rotor may be refinished upon the surface and wear conditions which may be present.
5. If the lowest thickness measurement of the brake rotor is below the minimum thickness specification; the rotor requires replacement.

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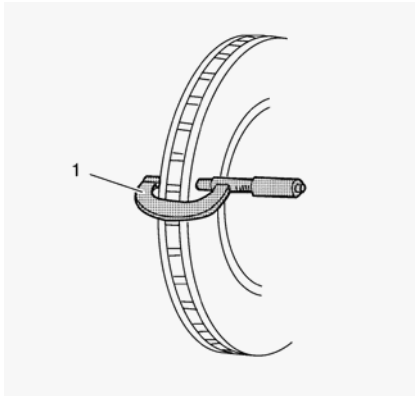
Submodel: | **Engine Type:** | **Liters:**

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Warning: Refer to Brake Dust Warning.

Note: Any disc brake rotor that exhibits thickness variation exceeding the maximum acceptable level must be refinished or replaced. Thickness variation exceeding the maximum acceptable level can cause brake pulsation.

1. If the inboard friction surface of the brake rotor is not accessible, reposition and support the caliper with the brake pads. Refer to Front Disc Brake Pads Replacement and/or Rear Disc Brake Pads Replacement.
2. Clean the friction surfaces of the brake rotor with denatured alcohol, or an equivalent approved brake cleaner.



3. Using a micrometer (1) calibrated in thousandths-of-a-millimeter, or ten-thousandths-of-an-inch, measure and record the thickness of the brake rotor at more points, evenly spaced around the rotor.

Ensure that the measurements are only taken within the friction surfaces and that the micrometer is positioned the same distance from the edge of the rotor, about 13 mm (½ in), for each measurement.
4. Calculate the difference between the highest and lowest thickness measurements recorded to obtain the amount of thickness variation.
5. Compare the thickness variation measurement to the following specification:
Specification
Brake rotor maximum allowable thickness variation: 0.025 mm (0.001 in)

Note: Whenever a brake rotor is refinished or replaced, the assembled lateral runout (LRO) of the rotor must be measured to ensure optimum performance of the disc brakes.

6. If the brake rotor thickness variation measurement exceeds the specification, the rotor requires refinishing or replacement.

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Warning: Road test a vehicle under safe conditions and while obeying all traffic laws. Do not attempt any maneuvers that could jeopardize vehicle control. Failure to adhere to these precautions could lead to serious personal injury and vehicle damage.

Burnishing the brake pads and brake rotors is necessary in order to ensure that the braking surfaces are properly prepared after service has been performed on the disc brake system.

This procedure should be performed whenever the disc brake rotors have been refinished or replaced, and/or whenever the disc brake pads have been replaced.

1. Select a smooth road with little or no traffic.
2. Accelerate the vehicle to 48 km/h (30 mph).

Note: Use care to avoid overheating the brakes while performing this step.

3. Using moderate to firm pressure, apply the brakes to bring the vehicle to a stop. Do not allow the brakes to lock.
4. Repeat steps 2 and 3 until approximately 20 stops have been completed. Allow sufficient cooling periods between stops in order to properly burnish the brake pads and rotors.

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Note: Do NOT refinish the brake rotors in order to correct any of the following complaints:

- Growl or squeal brake noise
- Premature brake lining wear
- Cosmetic or superficial corrosion of the rotor braking surface
- Rotor discoloration

Refinish the brake rotors ONLY when 1 or more of the following conditions exist:

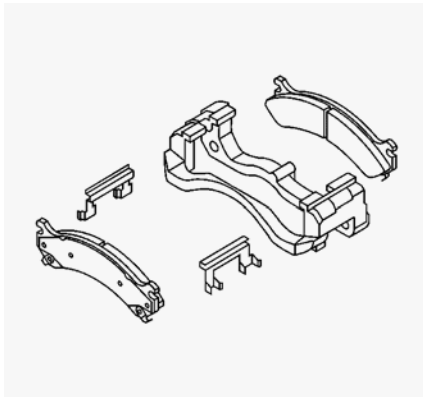
- Groove depth in excess of specification
 - Severe scoring of the rotor braking surface
 - Brake pulsation caused by the following:
 - Lateral runout in excess of specification
 - Brake rotor thickness variation in excess of specification
 - Corrosion or pitting that is deeper than the rotor braking surface
1. Use a micrometer in order to measure the thinnest point of the brake rotor. If the thinnest point of the brake rotor exceeds the brake rotor minimum thickness, do NOT refinish the brake rotor. Replace the brake rotor.
 2. Refinish the brake rotor. Refer to the brake lathe manufacturer's operating instructions.
- Note:** Failure to obtain the best possible braking surface finish may cause the vehicle to stop with difficulty.
3. After machining the rotor, use 120 grit aluminum oxide sandpaper and a non-directional rotor finisher, if available, in order to create a non-directional braking surface.
 4. Clean the braking surfaces with denatured alcohol and allow to dry.

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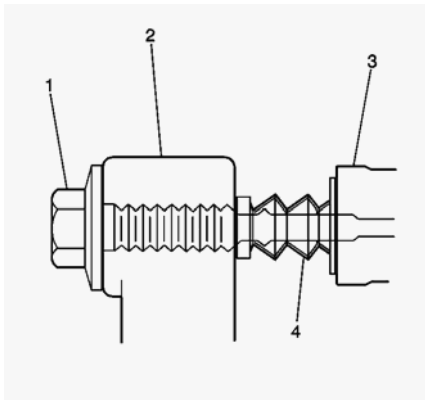
Submodel: | **Engine Type:** | **Liters:**
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Warning: Refer to Brake Dust Warning.

1. Inspect the fluid level in the brake master cylinder reservoir.
2. If the brake fluid level is midway between the maximum–full point and the minimum allowable level then no brake fluid needs to be removed from the reservoir before proceeding.
3. If the brake fluid level is higher than midway between the maximum–full point and the minimum allowable level then remove brake fluid to the minimum allowable level before proceeding.
4. Raise and support the vehicle. Refer Lifting and Jacking the Vehicle.
5. Remove the tire and wheel assembly. Refer to Tire and Wheel Removal and Installation.



6. Grasp the brake caliper housing and try to move the brake caliper housing up/down and forward/reverse in relation to the brake caliper mounting bracket. If excessive looseness is observed the brake caliper bracket bushings and/or the brake caliper mounting bolts may need to be replaced.
 7. Compress the front caliper pistons.
- Install a large C-clamp over the top of the caliper housing and against the back of the outboard pad.
 - Slowly tighten the C-clamp until the pistons are pushed completely into the caliper bores.
 - Remove the C-clamp from the caliper.
 - With the pistons compressed into the caliper bores, grasp the brake caliper housing and slide it back and forth on the brake caliper mounting bracket to ensure smooth operation. If the brake caliper housing slide force is high or the brake caliper housing does not slide smoothly, inspect the brake caliper mounting bracket bushings for wear or damage. If wear or damage conditions are found, replacement of the brake caliper mounting bracket bushings is necessary.
 - Remove the brake caliper mounting bolts from the brake caliper mounting bracket and support the brake caliper using heavy mechanics wire. Disconnect the hydraulic brake hose from the caliper. Refer to Front Brake Caliper Replacement.
 - Remove the disc brake pads from the brake caliper mounting bracket.
 - Inspect the disc brake pad mounting hardware for the following:
 - Missing mounting hardware
 - Excessive corrosion
 - Bent mounting tabs
 - Looseness at the brake caliper mounting bracket
 - Looseness at the disc brake pads
 - Excessive contaminants in the brake caliper mounting bracket surface and threads.
 - If any of the conditions listed are found, the disc brake pad mounting hardware requires replacement.
 - Ensure the disc brake pads are held firmly in place on the brake caliper mounting bracket, yet slide easily on the mounting hardware without binding.



- Inspect the caliper bolts (1) for the following:

- Binding
- Seizing
- Looseness in the brake caliper mounting bracket (3)
- Bent or damaged brake caliper mounting bolts
- Cracked or torn boots (4)
- Missing boots
- Bent or damaged brake caliper mounting bracket (3)
 - If any of the conditions listed are found then the brake caliper mounting hardware requires replacement.
 - Install the disc brake pads to the brake caliper mounting bracket.
 - Install the disc brake caliper to the brake caliper mounting bracket. Refer to Front Brake Caliper Replacement.

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System Component Description

The disc brake system consists of the following:

Disc Brake Pads

Applies mechanical output force from hydraulic brake calipers to the friction surfaces of brake rotors.

Disc Brake Rotors

Uses mechanical output force applied to friction surfaces from disc brake pads to slow speed of tire and wheel assembly rotation.

Disc Brake Pad Hardware

Secures disc brake pads firmly in proper relationship to hydraulic brake calipers; enables sliding motion of brake pads when mechanical output force is applied.

Disc Brake Caliper Hardware

Provides mounting for hydraulic brake caliper, secures caliper firmly in proper relationship to caliper bracket; enables sliding motion of brake caliper to brake pads when mechanical output force is applied.

System Operation

Mechanical output force is applied from the hydraulic brake caliper pistons to the inner brake pads. As the pistons press the inner brake pads outward, the caliper housings draw the outer brake pads inward, allowing the output force to be equally distributed. The brake pads then apply the output force to the friction surfaces on both sides of the brake rotors, which slows the rotation of the tire and wheel assemblies. The proper function of both the brake pad and brake caliper hardware is essential to the even distribution of braking force.

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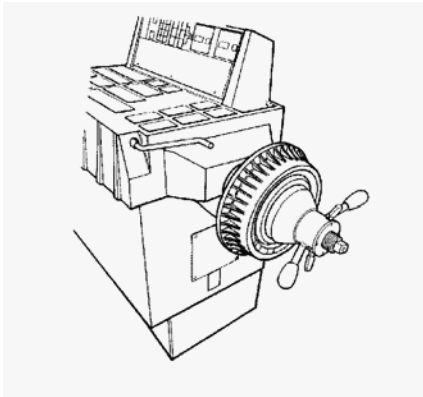
1. Support the vehicle drive axle on a suitable hoist. Refer to Lifting and Jacking the Vehicle.
2. Remove the tire and wheel assemblies from the drive axle. Refer to Tire and Wheel Removal and Installation.

Warning: Refer to Work Stall Test Warning.

3. Reinstall the wheel nuts in order to retain the brake rotors.
4. Run the vehicle at the concern speed while inspecting for the presence of the vibration.

Caution: Do not depress the brake pedal with the brake rotors and/or the brake drums removed, or with the brake calipers repositioned away from the rotors, or damage to the brake system may result.

5. If the vibration is still present, remove the rotors from the drive axle, then run the vehicle back to the concern speed.
6. If the vibration is eliminated when the brake rotors are removed from the drive axle, repeat the test with one rotor installed at a time. Replace causing or contributing to the vibration concern.



7. If a brake rotor was replaced as a result of following the previous steps, or if necessary to confirm the results obtained during the previous steps, check the non-drive axle components, perform the following:
 1. Mount the brake rotor/drum on a balancer in the same manner as a tire and wheel assembly.
- Note:** Check brake rotors/drums for static imbalance only; ignore the dynamic imbalance readings.
2. Inspect the rotor/drum for static imbalance.

There is not a set tolerance for brake rotor/drum static imbalance. However, any brake rotor/drum measured in this same manner which is over 21 g (?) the potential to cause or contribute to a vibration. Rotors/drums suspected of causing or contributing to a vibration should be replaced. Any rotor/drum should be checked for imbalance in the same manner.

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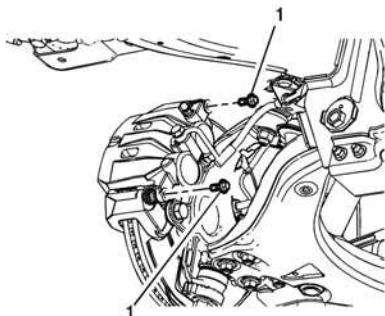
Submodel: | Engine Type: | Liters:

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Removal Procedure

Warning: Refer to Brake Dust Warning.

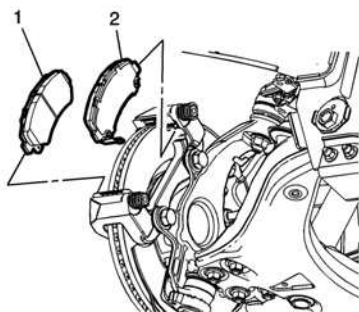
1. Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle.
2. Remove the tire and wheel assembly. Refer to Tire and Wheel Removal and Installation.



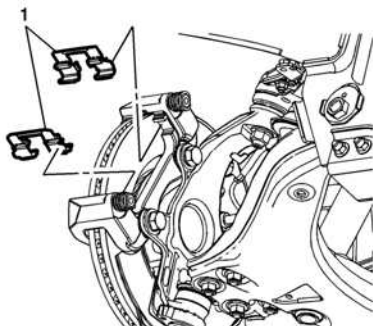
3. Remove the brake caliper guide pin bolts (1).

Caution: Support the brake caliper with heavy mechanic wire, or equivalent, whenever it is separated from its mount and the hydraulic fl hose is still connected. Failure to support the caliper in this manner will cause the flexible brake hose to bear the weight of the caliper, w damage to the brake hose and in turn may cause a brake fluid leak.

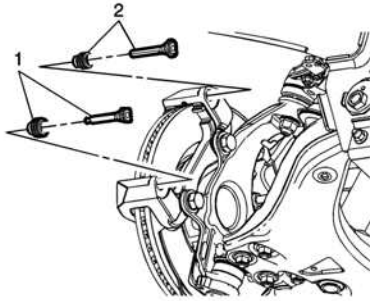
4. Without disconnecting the brake hose, remove and support the brake caliper with heavy mechanics wire.



5. Remove the outer disc brake pad (1).
6. Remove the inner disc brake pad (2).

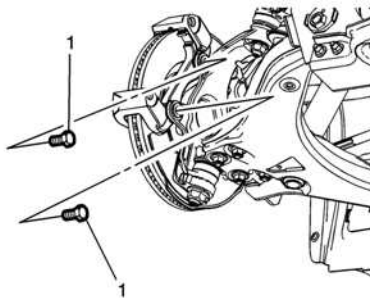


7. Remove the disc brake pad springs (1).



Note: The brake caliper guide pins are different and must be installed in the same location.

8. Remove the lower brake caliper guide pin and seal (1).
9. Remove the upper brake caliper guide pin and seal (2).



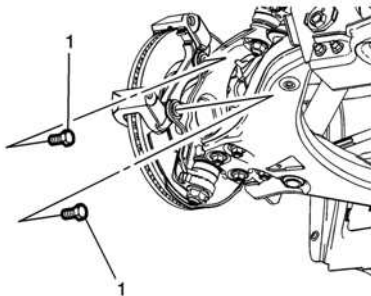
10. Remove the brake caliper bracket bolts (1).
11. Remove the brake caliper bracket.

Installation Procedure

1. Using a stiff brush, remove any debris and corrosion from the brake pad spring contact area of the brake caliper bracket.
2. Install the brake caliper bracket.

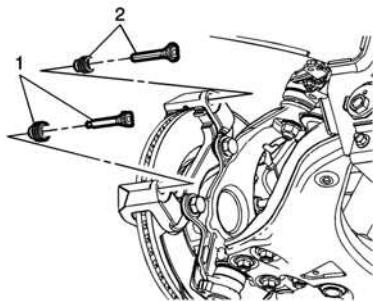
Note: If reusing the brake caliper bracket bolts, the threads of the brake caliper bracket bolts and the threads of the steering knuckle must be cleaned of any residue and debris prior to application of threadlocker in order to ensure proper adhesion and fastener retention.

3. If reusing the brake caliper bracket bolts, prepare the bracket bolts and threaded holes of the steering knuckle for assembly:
 - Thoroughly clean the residue from the guide pin bolt threads by using denatured alcohol or equivalent and allow to dry.
 - Thoroughly clean the residue from the threaded holes of the steering knuckle by using denatured alcohol or equivalent and allow to dry.
 - Apply threadlocker to 2/3 of the threaded length of the brake caliper bracket bolts. Ensure there are no gaps in the threadlocker along the area of the bolt. Refer to Adhesives, Fluids, Lubricants, and Sealers.



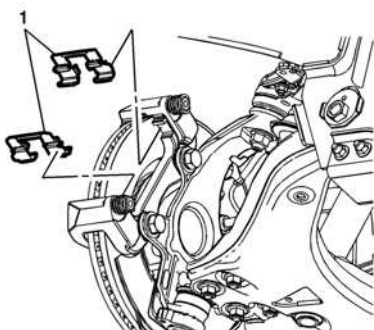
Caution: Refer to Fastener Caution.

- Install the brake caliper bracket bolts (1) and tighten to **225 Y (166 lb ft)**.
- Apply a light coat of high temperature silicone brake lubricant to the brake caliper guide pins.

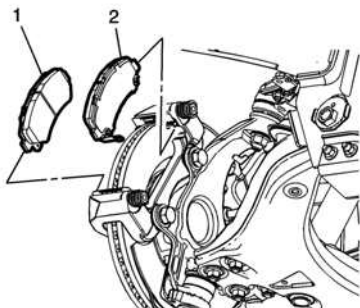


Note: The brake caliper guide pins are different and must be installed in the same location.

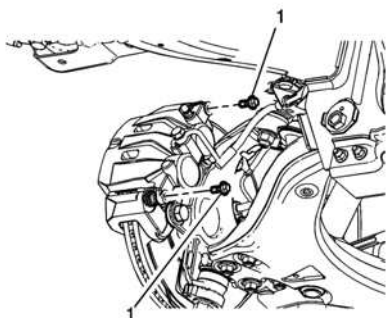
- Install the lower brake caliper guide pin and seal (1).
- Ensure the brake caliper guide pin seal is fully seated in the groove of the brake caliper guide pin.
- Install the upper brake caliper guide pin and seal (2).
- Ensure the brake caliper guide pin seal is fully seated in the groove of the brake caliper guide pin.



- Install the disc brake pad springs (1).



- Install the outer disc brake pad (1).
- Install the inner disc brake pad (2).
- Position the brake caliper to the brake caliper bracket.



- Install the brake caliper guide pin bolts (1) and tighten to **36 Y (27 lb ft)**.
- Install the tire and wheel assembly. Refer to Tire and Wheel Removal and Installation.
- With the engine OFF, gradually apply the brake pedal to approximately 2/3 of its travel distance.
- Slowly release the brake pedal.
- Wait 15 seconds, then repeat steps 17-18 until the brake pedal remains high and firm. This will properly seat the brake caliper pistons and

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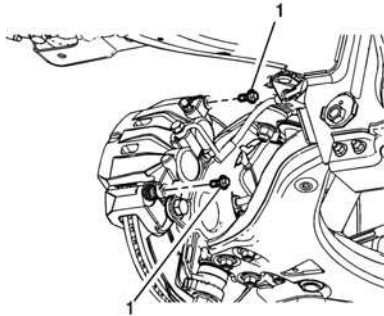
Submodel: | Engine Type: | Liters:

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Removal Procedure

Warning: Refer to Brake Dust Warning.

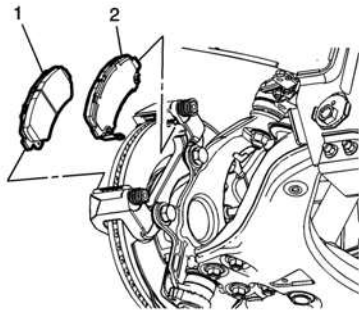
1. Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle.
2. Remove the tire and wheel assembly. Refer to Tire and Wheel Removal and Installation.



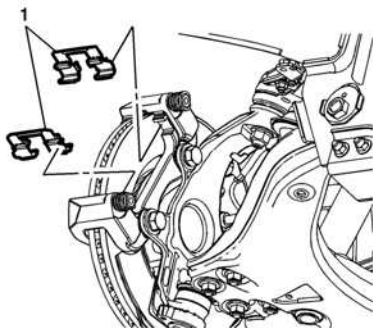
3. Remove the brake caliper guide pin bolts (1).

Caution: Support the brake caliper with heavy mechanic wire, or equivalent, whenever it is separated from its mount and the hydraulic fl hose is still connected. Failure to support the caliper in this manner will cause the flexible brake hose to bear the weight of the caliper, w damage to the brake hose and in turn may cause a brake fluid leak.

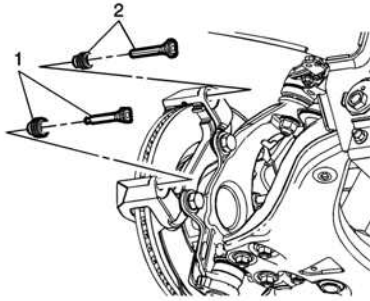
4. Without disconnecting the brake hose, remove and support the brake caliper with heavy mechanics wire.



5. Remove the outer disc brake pad (1).
6. Remove the inner disc brake pad (2).



7. Remove the disc brake pad springs (1).

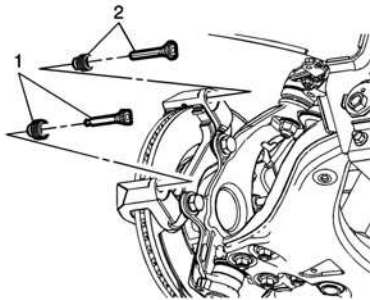


Note: The brake caliper guide pins are different and must be installed in the same location.

8. Remove the lower brake caliper guide pin and seal (1).
9. Remove the upper brake caliper guide pin and seal (2).

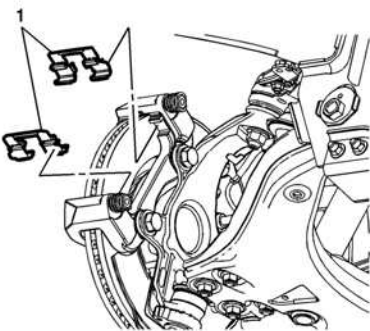
Installation Procedure

1. Apply a light coat of high temperature silicone brake lubricant to the brake caliper guide pins.

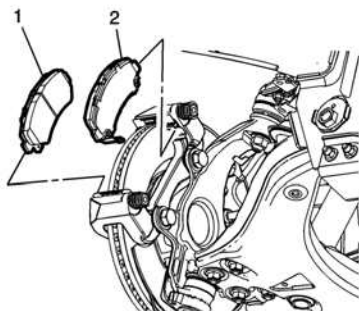


Note: The brake caliper guide pins are different and must be installed in the same location.

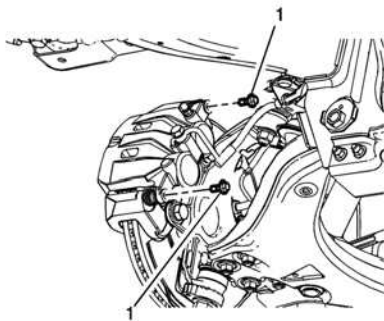
2. Install the lower brake caliper guide pin and seal (1).
3. Ensure the brake caliper guide pin seal is fully seated in the groove of the brake caliper guide pin.
4. Install the upper brake caliper guide pin and seal (2).
5. Ensure the brake caliper guide pin seal is fully seated in the groove of the brake caliper guide pin.



6. Install the disc brake pad springs (1).



7. Install the outer disc brake pad (1).
8. Install the inner disc brake pad (2).
9. Position the brake caliper to the brake caliper bracket.



Caution: Refer to Fastener Caution.

10. Install the brake caliper guide pin bolts (1) and tighten to **36 Y (27 lb ft)**.
11. Install the tire and wheel assembly. Refer to Tire and Wheel Removal and Installation.
12. With the engine OFF, gradually apply the brake pedal to approximately 2/3 of its travel distance.
13. Slowly release the brake pedal.
14. Wait 15 seconds, then repeat steps 12-13 until the brake pedal remains high and firm. This will properly seat the brake caliper pistons ;

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Submodel: | Engine Type: | Liters:

Fuel Delivery: | Fuel:

Warning: Refer to Brake Fluid Irritant Warning.

Caution: Refer to Brake Fluid Effects on Paint and Electrical Components Caution.

Disassembly Procedure

Warning: Do not place fingers in front of the caliper piston(s) in an attempt to catch or protect it when applying compressed air. The piston(s) could be blown out, even with the padding provided, it may be damaged.

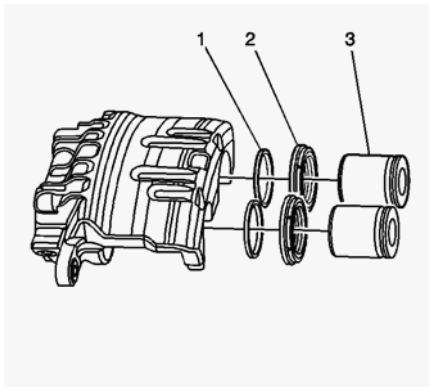
Note:

- Replace all the components included in the repair kits used to service this brake caliper.
- Lubricate the rubber parts with GM approved brake fluid from a clean, sealed brake fluid container to make assembly easier.
- If any hydraulic component is removed or disconnected, it may be necessary to bleed all or part of the brake system.
- The torque values specified are for dry, non-lubricated fasteners.
- Perform the service operations on a clean bench, free from all mineral oil materials.

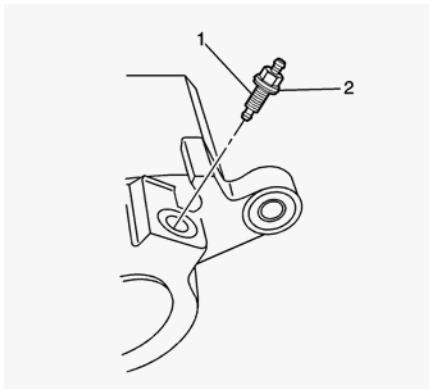
1. Remove the brake caliper from the vehicle. Refer to Front Brake Caliper Replacement.
2. Drain the brake fluid from the brake caliper.

Caution: Use clean cloths to pad interior of caliper housing during piston removal. Use just enough air to ease the pistons out of the bore and could result in serious bodily injury.

3. Place a 25 mm (1 in) block of wood between the caliper and the piston.
4. Install a large C-clamp over the body of the brake caliper with the C-clamp ends against the rear of the caliper body and against the block of wood.
5. Carefully remove the brake caliper piston by directing low pressure compressed air into the brake caliper inlet hole.
6. Remove the C-clamp from the caliper.
7. Remove the block of wood from the caliper.
8. Install clean cloths to pad the interior of the caliper housing between the remaining caliper piston and the caliper body.
9. To cover the open caliper bore, place a 25 mm (1 in) block of wood between the caliper body and the brake caliper dust boot seal.
10. Install a large C-clamp over the body of the brake caliper with the C-clamp ends against the rear of the caliper body and against the block of wood.
11. Carefully remove the brake caliper piston by directing low pressure compressed air into the brake caliper inlet hole.
12. Remove the C-clamp from the caliper.
13. Remove the block of wood from the caliper.



14. Remove the piston dust boot seals (2) from the seal counter-bores in the brake caliper and discard the boot seals.
15. Using a small wooden or plastic tool, remove the piston seals (1) from the brake caliper bores and discard the piston seals.

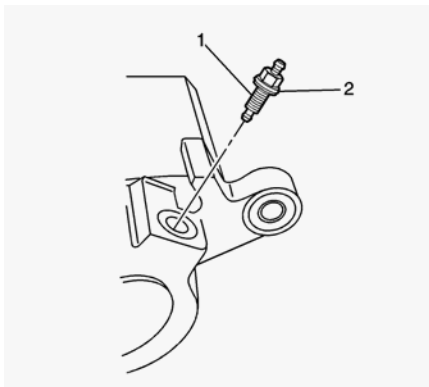


16. Remove the brake caliper bleeder valve cap.
17. Remove the brake caliper bleeder valve (1).
18. Clean the brake caliper piston bores and seal counter-bores with denatured alcohol, or equivalent.

Note: Do not use abrasives to clean the brake caliper pistons.

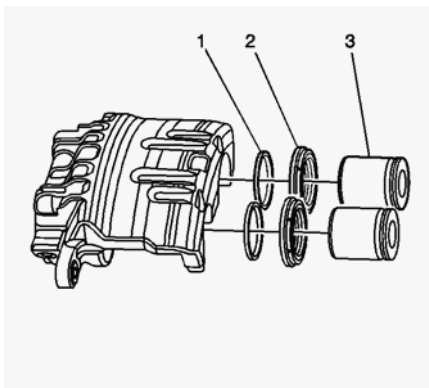
19. Clean the brake caliper pistons with denatured alcohol, or equivalent.
20. Dry the caliper piston bores and counter-bores with non-lubricated, filtered compressed air.
21. Dry the brake caliper pistons with non-lubricated, filtered compressed air.
22. Inspect the caliper bores for cracks, scoring, pitting, excessive corrosion.
23. If light corrosion is present in the caliper bores, attempt to remove the imperfection with a fine emery paper. If the imperfection cannot replace the caliper assembly.
24. If cracks, scoring, pitting, and excessive corrosion are present in the caliper bores, replace the caliper assembly.
25. Inspect the caliper pistons for cracks, scoring, and damage. Replace the caliper pistons if any of these conditions exist.

Assembly Procedure

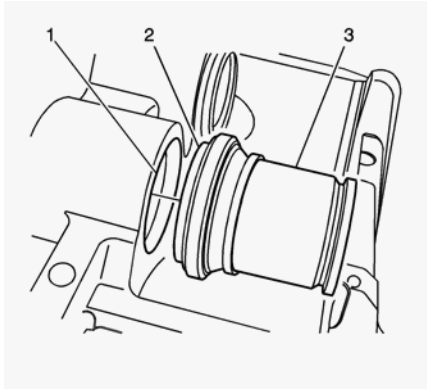


Caution: Refer to Fastener Caution.

1. Install the brake caliper bleeder valve (1) and tighten to **12 Y (106 lb in)**.
2. Install the brake caliper bleeder valve cap.



3. Lubricate the new piston seals (1) with GM approved brake fluid from a clean, sealed brake fluid container.
4. Install lubricated piston seals into the brake caliper bore seal grooves.
5. Make sure the seals are not twisted.



6. Install the piston dust boot (2) over the end of the piston (3) so that the fold will face toward the brake caliper housing piston bore open
7. Seat the caliper dust boot into the brake caliper bore groove (1) and slide the piston into the brake caliper bore.
8. Using your fingers, carefully push the piston to the bottom of the brake caliper bore.
9. Ensure the caliper dust boot is properly seated into the piston groove and into the groove in the brake caliper bore.
10. Repeat steps 3-9 for the remaining piston.
11. Install the brake caliper to the vehicle. Refer to Front Brake Caliper Replacement.

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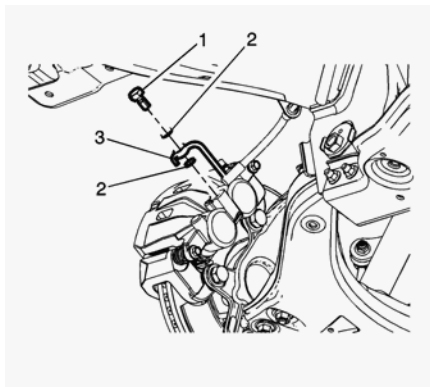
Fuel Delivery: | Fuel:

Removal Procedure

Warning: Refer to Brake Dust Warning.

Warning: Refer to Brake Fluid Irritant Warning.

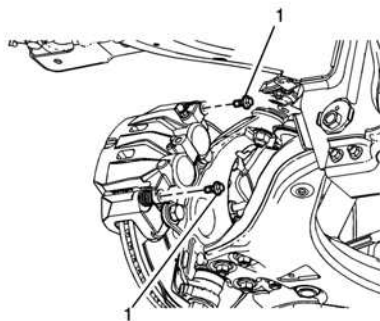
1. Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle.
2. Remove the tire and wheel assembly. Refer to Tire and Wheel Removal and Installation.



3. Remove the brake hose fitting bolt (1).

Note: Do not reuse the brake hose fitting gaskets.

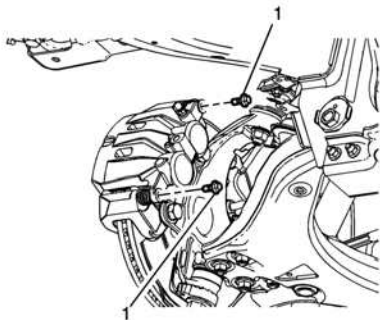
4. Remove and discard the brake hose fitting gaskets (2) from the brake hose fitting (3).
5. Plug the brake hose fitting to prevent brake fluid loss and contamination.



6. Remove the brake caliper guide pin bolts (1).
7. Remove the brake caliper.

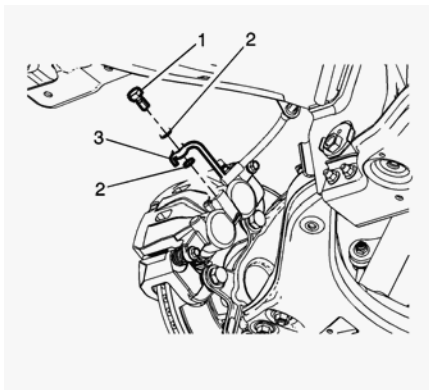
Installation Procedure

1. Install the brake caliper.



Caution: Refer to Fastener Caution.

2. Install the brake caliper guide pin bolts (1) and tighten to **36 Y (27 lb ft)**.



3. Assemble the brake hose fitting bolt (1) and the new brake hose fitting gaskets (2) to the brake hose fitting (3).
4. Install the brake hose fitting assembly to the brake caliper and tighten the fitting bolt to **34 Y (25 lb ft)**.
5. Bleed the hydraulic brake system. Refer to Hydraulic Brake System Bleeding.
6. Install the tire and wheel assembly. Refer to Tire and Wheel Removal and Installation.

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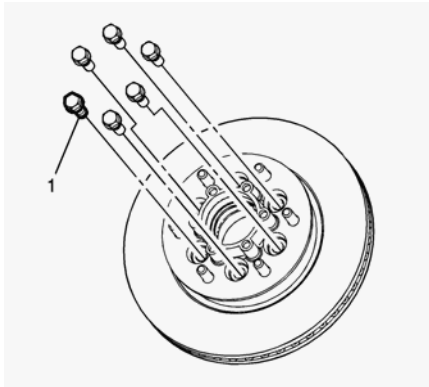
Submodel: | Engine Type: | Liters:

Fuel Delivery: | Fuel:

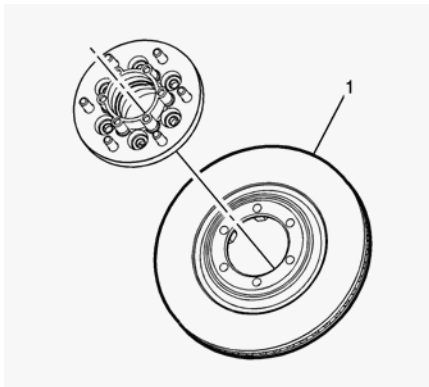
Removal Procedure

Warning: Refer to Brake Dust Warning.

1. Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle.
2. Remove the tire and wheel assembly. Refer to Tire and Wheel Removal and Installation.
3. Remove the front wheel bearing and hub assembly. Refer to Front Wheel Hub, Bearing, and Seal Replacement.

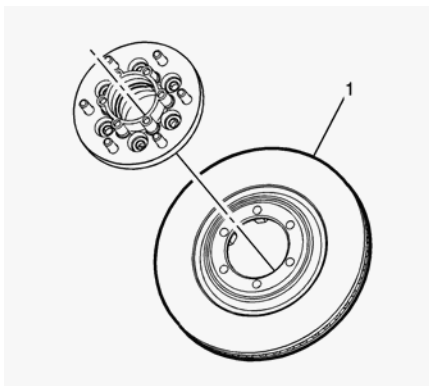


4. Remove the front brake rotor bolts (1).

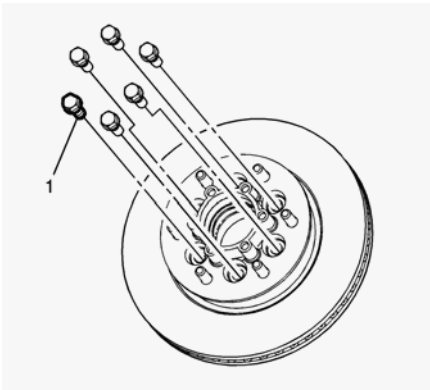


5. Remove the front brake rotor (1).
6. Remove any debris or corrosion from the front brake rotor and wheel hub mating surfaces.

Installation Procedure



1. Install the front brake rotor (1).



Caution: Refer to Fastener Caution.

2. Install the front brake rotor bolts (1) and tighten to **103 Y (76 lb ft)**.
3. Install the front wheel bearing and hub assembly. Refer to Front Wheel Hub, Bearing, and Seal Replacement.
4. Install the tire and wheel assembly. Refer to Tire and Wheel Removal and Installation.

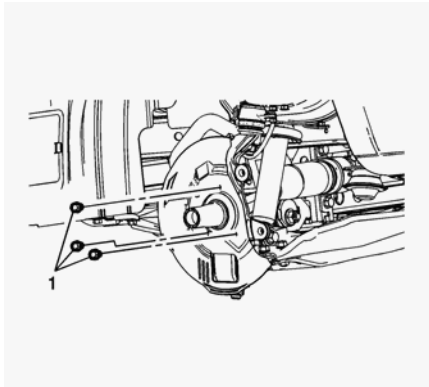
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Submodel: | **Engine Type:** | **Liters:**
Fuel Delivery: | **Fuel:**

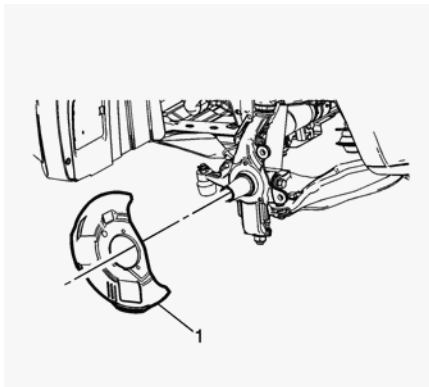
Removal Procedure

Warning: Refer to Brake Dust Warning.

1. Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle.
2. Remove the tire and wheel assembly. Refer to Tire and Wheel Removal and Installation.
3. Remove the front wheel bearing and hub assembly. Refer to Front Wheel Hub, Bearing, and Seal Replacement.

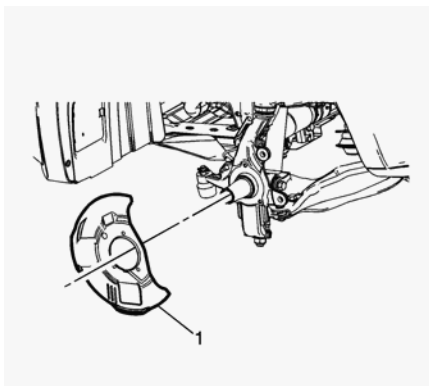


4. Remove the front brake shield bolts (1).

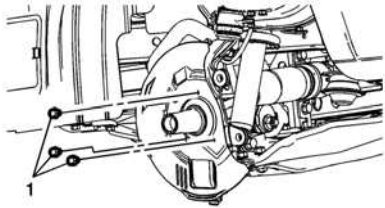


5. Remove the front brake shield (1).
6. Remove any debris or corrosion from the front brake shield and steering knuckle mating surfaces.

Installation Procedure



1. Install the front brake shield (1).



Caution: Refer to Fastener Caution.

2. Install the front brake shield bolts (1) and tighten to **13 Y (115 lb in)**.
3. Install the front wheel bearing and hub assembly. Refer to Front Wheel Hub, Bearing, and Seal Replacement.
4. Install the tire and wheel assembly. Refer to Tire and Wheel Removal and Installation.

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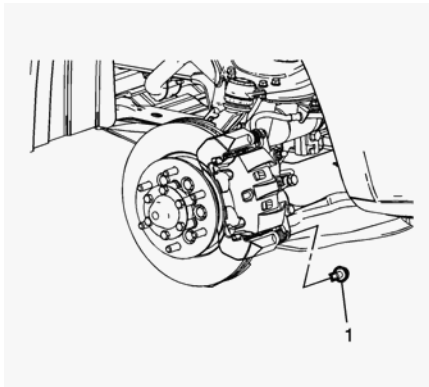
Submodel: | Engine Type: | Liters:

Fuel Delivery: | Fuel:

Removal Procedure

Warning: Refer to Brake Dust Warning.

1. Inspect the fluid level in the master cylinder reservoir.
2. If the brake fluid is midway between the maximum full point and the minimum allowable level, no brake fluid needs to be removed from before proceeding.
3. If the brake fluid is higher than midway between the maximum full point and the minimum allowable level, remove brake fluid to the mi before proceeding.
4. Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle.
5. Remove the tire and wheel assembly. Refer to Tire and Wheel Removal and Installation.
6. Install a large C-clamp over the body of the brake caliper with the C-clamp ends against the rear of the caliper body and against the oi pad.
7. Tighten the C-clamp evenly until the caliper pistons are compressed into the caliper bore.



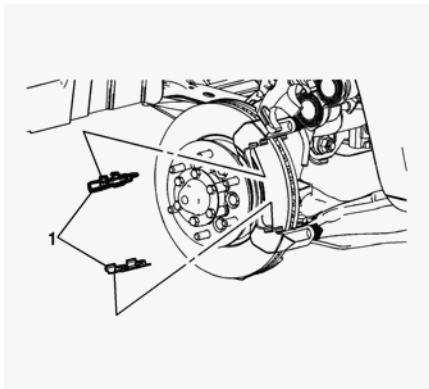
8. Remove the lower brake caliper guide pin bolt (1).

Caution: Support the brake caliper with heavy mechanic wire, or equivalent, whenever it is separated from its mount and the hydraulic fl hose is still connected. Failure to support the caliper in this manner will cause the flexible brake hose to bear the weight of the caliper, w damage to the brake hose and in turn may cause a brake fluid leak.

9. Pivot the brake caliper (1) upward and support with heavy mechanics wire.

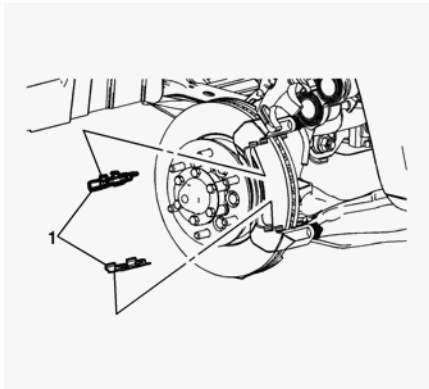


10. Remove the outer disc brake pad (1).
11. Remove the inner disc brake pad (2).



12. Remove the disc brake pad springs (1).
13. If installing new disc brake pads, discard the disc brake pad springs.
14. Thoroughly clean the brake caliper bracket mating surfaces and, if reusing the brake pads, clean the brake pad shims with denatured ; to dry.

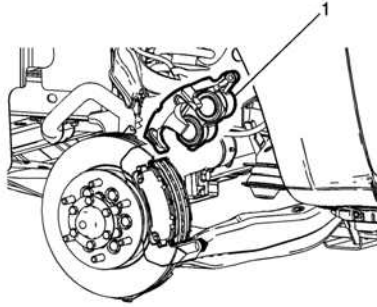
Installation Procedure



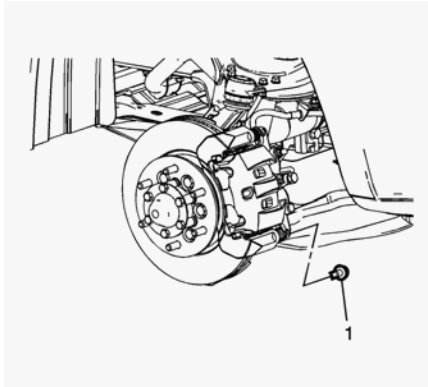
1. Install the disc brake pad springs (1).



2. Install the outer disc brake pad (1).
3. Install the inner disc brake pad (2).



4. Position the brake caliper (1) to the installed brake caliper bracket.



Caution: Refer to Fastener Caution.

5. Install the lower brake caliper guide pin bolt (1) and tighten to **36 Y (27 lb ft)**.
6. Install the tire and wheel assembly. Refer to Tire and Wheel Removal and Installation.
7. With the engine OFF, gradually apply the brake pedal approximately 2/3 of its travel distance.
8. Slowly release the brake pedal.
9. Wait 15 seconds then repeat steps 7-8 until a firm brake pedal is obtained. This will properly seat the brake caliper pistons and the brake pads.
10. Fill the master cylinder reservoir to the proper level. Refer to Master Cylinder Reservoir Filling.
11. Burnish the brake pads and rotors. Refer to Brake Pad and Rotor Burnishing.

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System Component Description

The park brake system consists of the following:

Park Brake Lever Assembly

Receives and transfers park brake system apply input force from driver to park brake cable system.

Releases applied park brake system when the lever is returned to the at-rest rest position.

Park Brake Cables

Transfers input force received from park brake lever, 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.

An auto adjust spring is used to remove the slack in the park brake cables.

Park Brake Actuator/Adjuster

Uses multiplied input force from apply lever via the cables to expand park brake shoe toward the friction surface of the drum-in-hat portion of the rear brake rotor.

Threaded park brake actuators/adjusters 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 (Rear Disc, Drum-In-Hat System)

Applies mechanical output force from park brake actuator/adjuster 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 lever assembly being raised, 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/adjusters 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 lever assembly releases an applied park brake system when the lever is returned to the at-rest rest position.

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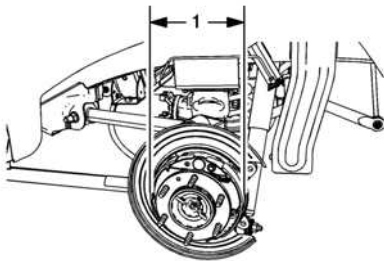
Special Tools

CH-230-A Gauge

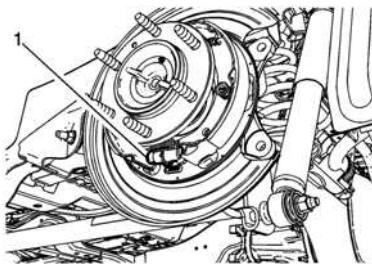
For equivalent regional tools refer to Special Tools.

Park Brake Shoe Adjustment

1. Apply and fully release the parking brake several times.
2. Verify that the parking brake lever releases completely.
3. Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle.
4. Remove the rear tire and wheel assemblies. Refer to Tire and Wheel Removal and Installation.
5. Remove the rear brake rotors. Refer to Rear Brake Rotor Replacement.
6. Set the outside diameter measurement of the CH-230-A Gauge to **209.5 mm (8 in)**.
7. Tighten the set screw of the CH-230-A Gauge.



8. Position the CH-230-A Gauge over the park brake shoes diameter (1).

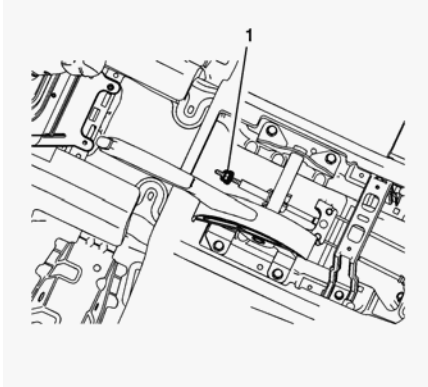


9. Rotate the adjuster (1) until the park brake shoes contact the CH-230-A Gauge.
10. Repeat steps 6 through 9 for the opposite park brake shoe assembly.
11. Install the rear brake rotors. Refer to Rear Brake Rotor Replacement.
12. Install the rear tire and wheel assemblies. Refer to Tire and Wheel Removal and Installation.
13. Lower the vehicle enough to allow access to the parking brake lever assembly, and the rear tire and wheel assemblies are free to rotate.
14. Perform the Parking Brake Lever Adjustment procedure.

Park Brake Lever Adjustment

1. Turn the ignition to ON with the engine OFF.
2. Verify the red BRAKE warning lamp is not illuminated.
3. If the red BRAKE warning lamp is illuminated, verify the following:

- The parking brake lever is in the fully released position and against the stop.
- There is no slack in the parking brake cables.
 - If the red BRAKE warning lamp remained illuminated and there were no other visible causes, refer to Symptoms - Hydraulic Brakes.
 - Turn the ignition to OFF.
 - Remove the front floor console, if equipped. Refer to Front Floor Console Replacement.
 - If equipped with bench seat, remove the passenger seat. Refer to Driver or Passenger Seat Removal and Installation.



- Loosen the parking brake cable adjustment nut (1) enough to completely relieve tension on the parking brake cables.
- Ensure there is no park brake shoe drag after the park brake shoe adjustment by rotating the rear tire and wheel assemblies.
- If drag exists, re-center the park brake shoes and perform the park brake shoe adjustment again.
- Raise the parking brake lever 4 detent positions.

Caution: Refer to Fastener Caution.

- Tighten the parking brake cable nut until the slack in the parking brake cables is removed.
- Raise the parking brake lever an additional 4 detent positions.
- Attempt to rotate the rear tire and wheel assemblies. There should be no forward or rearward rotation.
- Fully release the parking brake lever.
- Verify the parking brake is released by rotating the rear tire and wheel assemblies.
- The tire and wheel assemblies should rotate freely and exhibit no park brake shoe drag.
- If the rear tire and wheel assemblies do not rotate freely, repeat the parking brake cable adjustment procedure.
- Raise the parking brake lever 8 detent positions.
- Attempt to rotate the rear tire and wheel assemblies. There should be no forward or rearward rotation.
- If equipped with bench seat, install the passenger seat. Refer to Driver or Passenger Seat Removal and Installation.
- Install the front floor console, if equipped. Refer to Front Floor Console Replacement.
- Release the parking brake lever.

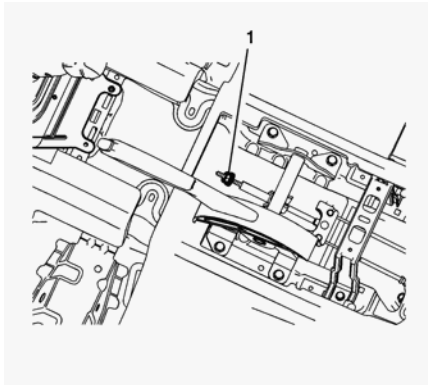
2013 Chevrolet Colorado

Submodel: | Engine Type: | Liters:

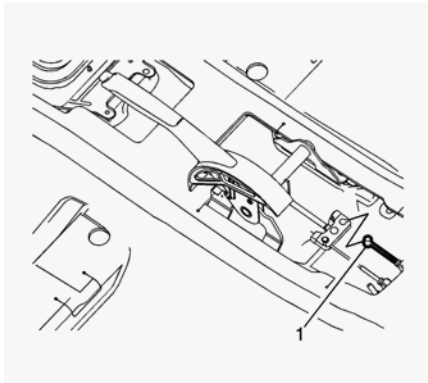
Fuel Delivery: | Fuel:

Removal Procedure

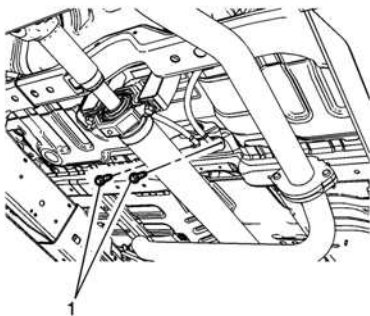
1. Remove the front floor console, if equipped. Refer to Front Floor Console Replacement.
2. If equipped with bench seat, remove the passenger seat. Refer to Driver or Passenger Seat Removal and Installation.
3. Place the parking brake lever in the fully released position.



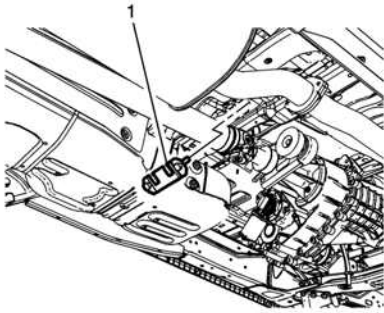
4. Using only hand tools, completely loosen the parking brake cable adjuster nut (1).



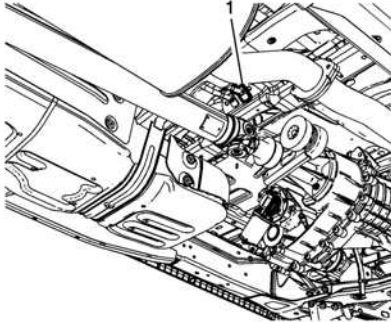
5. Disconnect the right rear parking brake cable fitting (1) from the parking brake lever equalizer.
6. Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle.



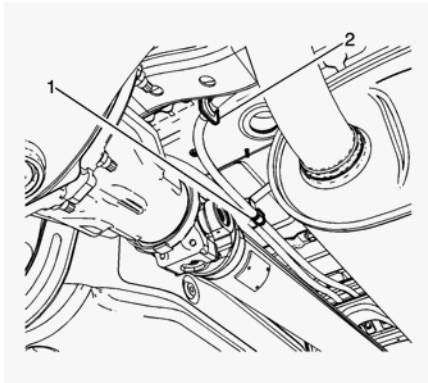
7. Remove the parking brake cable retaining plate bolts (1).



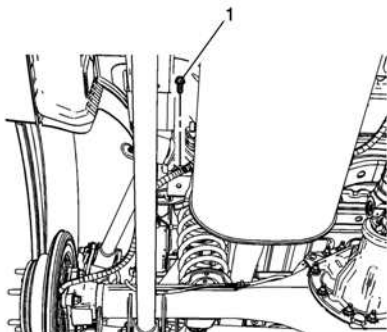
8. Remove the parking brake cable retaining plate (1).



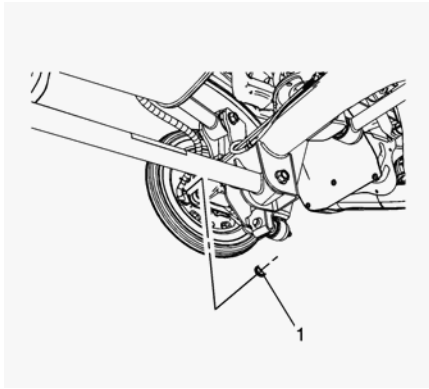
9. Release the right rear parking brake cable pass through grommet (1).



10. Release the right rear parking brake cable from the retaining bracket (1).
11. Release the right rear parking brake cable from the routing bracket (2).



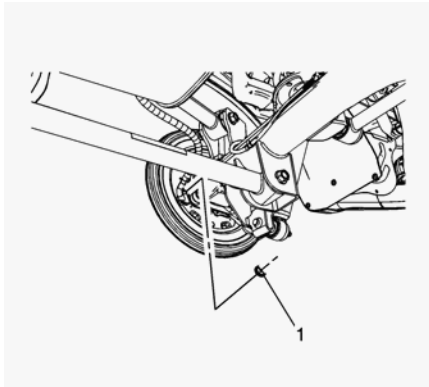
12. Remove the right rear parking brake cable bracket bolt (1).



13. Remove the right rear parking brake cable nut (1).
14. Remove the right parking brake shoes. Refer to Brake Shoe Replacement.
15. Pull the right rear parking brake cable assembly through the rear brake backing plate.

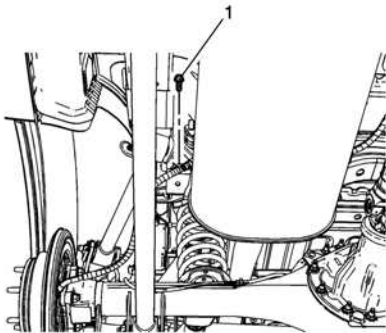
Installation Procedure

1. Install the right rear parking brake cable through the rear brake backing plate.

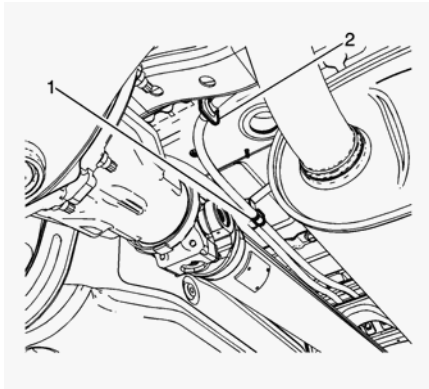


Caution: Refer to Fastener Caution.

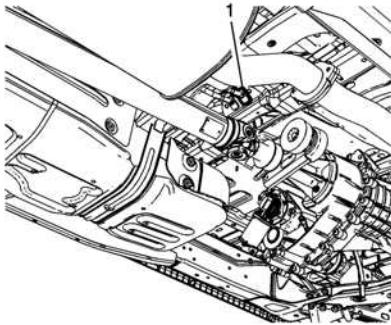
2. Install the right rear parking brake cable nut (1).
3. Install the right parking brake shoes. Refer to Brake Shoe Replacement.



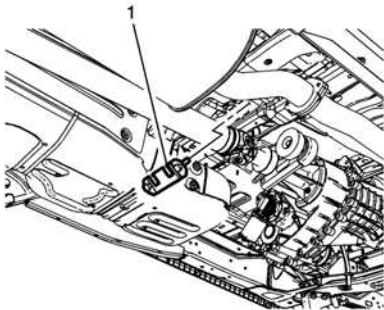
4. Install the right rear parking brake cable bracket bolt (1) and tighten to **22 Y (16 lb ft)**.



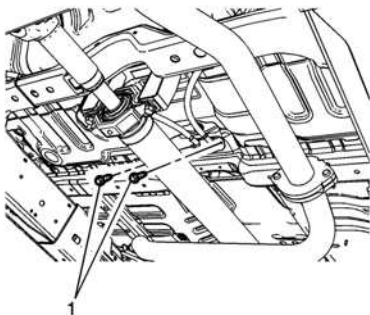
5. Install the right rear parking brake cable to the retaining bracket (1).
6. Install the right rear parking brake cable to the routing bracket (2).



7. Install the right rear parking brake cable pass through grommet (1).



8. Install the parking brake cable retaining plate (1).
9. Install the right rear tire and wheel assembly. Refer to Tire and Wheel Removal and Installation.



10. Install the parking brake cable retaining plate bolts (1) and tighten to **22 Y (16 lb ft)**.
11. Lower the vehicle.



12. Connect the right rear parking brake cable fitting (1) to the parking brake lever equalizer.
13. Adjust the parking brake. Refer to Parking Brake Adjustment.
14. If equipped with bench seat, Install the passenger seat. Refer to Driver or Passenger Seat Removal and Installation.
15. Install the front floor console, if equipped. Refer to Front Floor Console Replacement.

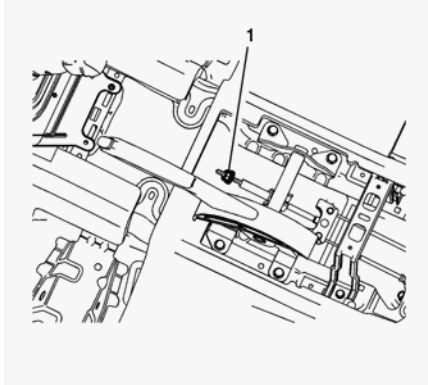
2013 Chevrolet Colorado

Submodel: | Engine Type: | Liters:

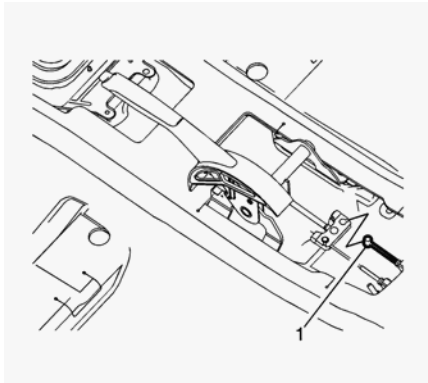
Fuel Delivery: | Fuel:

Removal Procedure

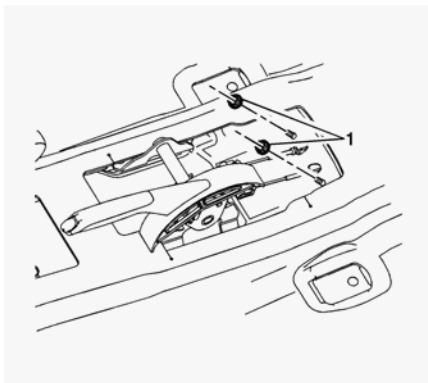
1. Remove the front floor console, if equipped. Refer to Front Floor Console Replacement.
2. If equipped with bench seat, remove the passenger seat. Refer to Driver or Passenger Seat Removal and Installation.
3. Place the parking brake lever in the fully released position.



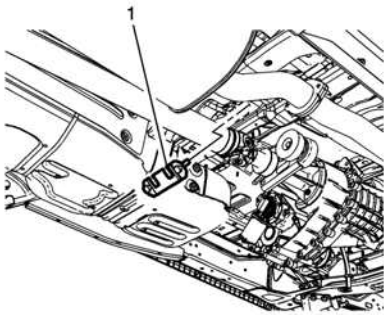
4. Using only hand tools, completely loosen the parking brake cable adjuster nut (1).



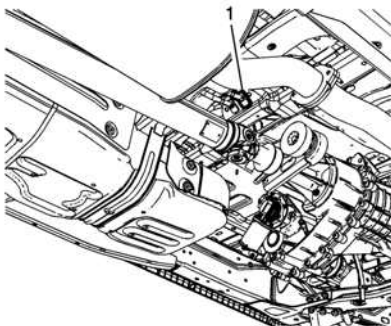
5. Disconnect the right rear parking brake cable fitting (1) from the parking brake lever equalizer.



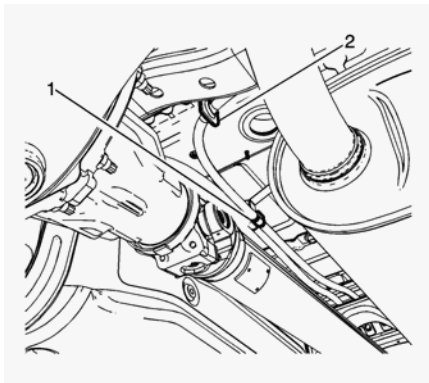
6. Remove the parking brake cable retainer plate nuts (1).
7. Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle.



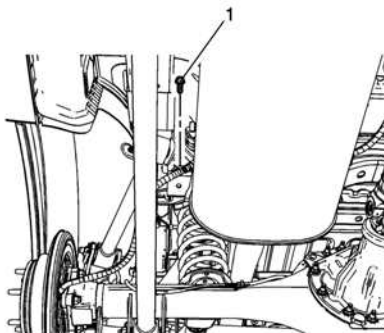
8. Remove the parking brake cable retaining plate (1).



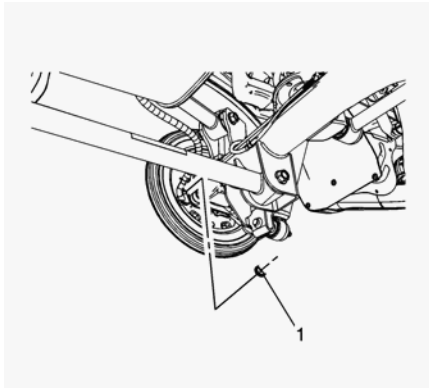
9. Release the right rear parking brake cable pass through grommet (1).



10. Release the right rear parking brake cable from the retaining bracket (1).
11. Release the right rear parking brake cable from the routing bracket (2).



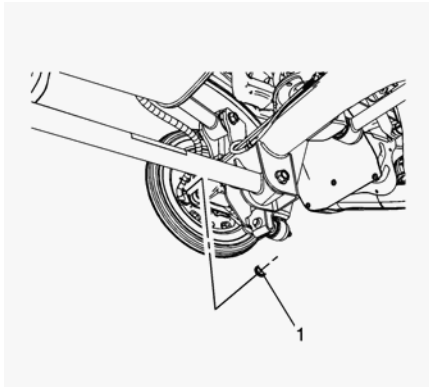
12. Remove the right rear parking brake cable bracket bolt (1).



13. Remove the right rear parking brake cable nut (1).
14. Remove the right parking brake shoes. Refer to Brake Shoe Replacement.
15. Pull the right rear parking brake cable assembly through the rear brake backing plate.

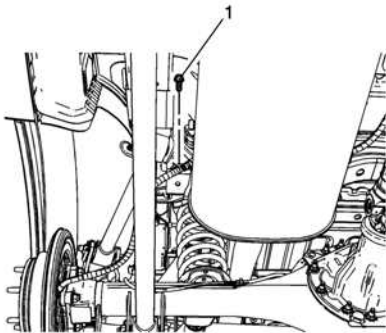
Installation Procedure

1. Install the right rear parking brake cable through the rear brake backing plate.

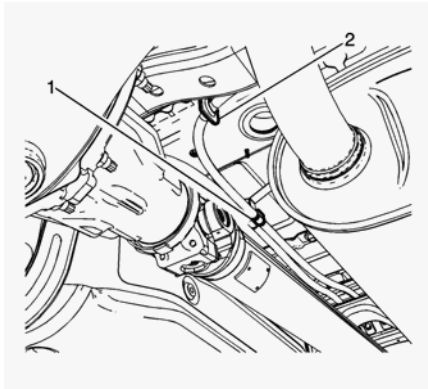


Caution: Refer to Fastener Caution.

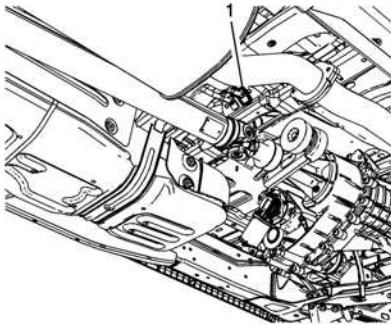
2. Install the right rear parking brake cable nut (1).
3. Install the right parking brake shoes. Refer to Brake Shoe Replacement.



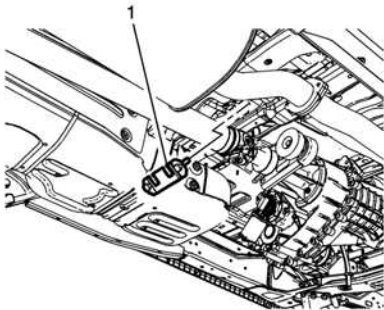
4. Install the right rear parking brake cable bracket bolt (1) and tighten to **22 Y (16 lb ft)**.



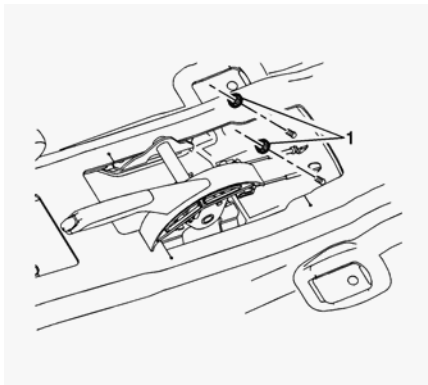
5. Install the right rear parking brake cable to the retaining bracket (1).
6. Install the right rear parking brake cable to the routing bracket (2).



7. Install the right rear parking brake cable pass through grommet (1).



8. Install the parking brake cable retaining plate (1).
9. Install the right rear tire and wheel assembly. Refer to Tire and Wheel Removal and Installation.
10. Lower the vehicle.



11. Install the parking brake cable retainer plate nuts (1) and tighten to **25 Y (18 lb ft)**.



12. Connect the right rear parking brake cable fitting (1) to the parking brake lever equalizer.
13. Adjust the parking brake. Refer to Parking Brake Adjustment.
14. If equipped with bench seat, Install the passenger seat. Refer to Driver or Passenger Seat Removal and Installation.
15. Install the front floor console, if equipped. Refer to Front Floor Console Replacement.

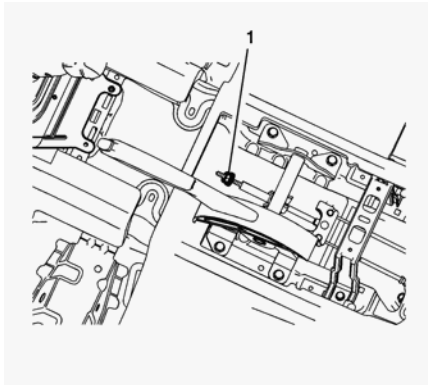
2013 Chevrolet Colorado

Submodel: | Engine Type: | Liters:

Fuel Delivery: | Fuel:

Removal Procedure

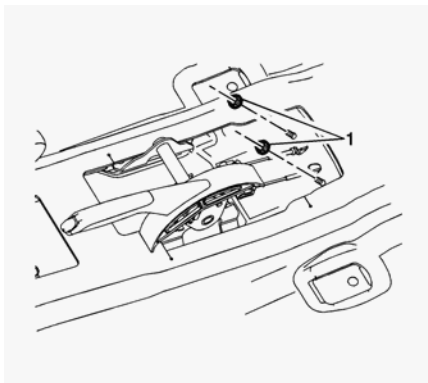
1. Remove the front floor console, if equipped. Refer to Front Floor Console Replacement.
2. If equipped with bench seat, remove the passenger seat. Refer to Driver or Passenger Seat Removal and Installation.
3. Place the parking brake lever in the fully released position.



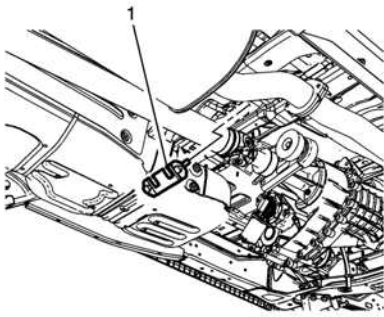
4. Using only hand tools, completely loosen the parking brake cable adjuster nut (1).



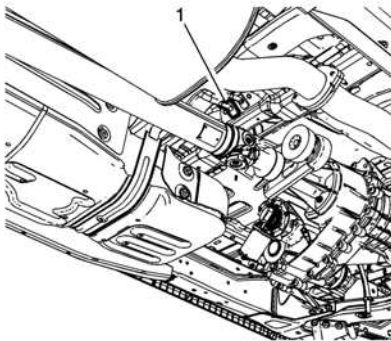
5. Disconnect the left rear parking brake cable fitting (1) from the parking brake lever equalizer.



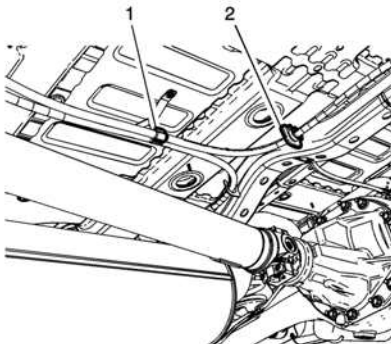
6. Remove the parking brake cable retainer plate nuts (1).
7. Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle.



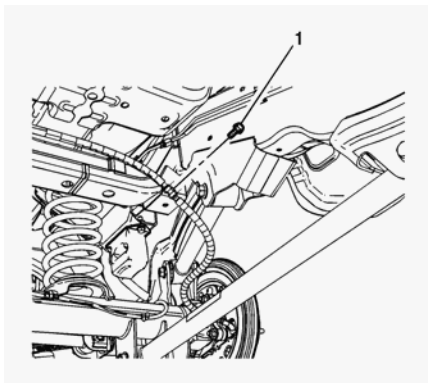
8. Remove the parking brake cable retaining plate (1).



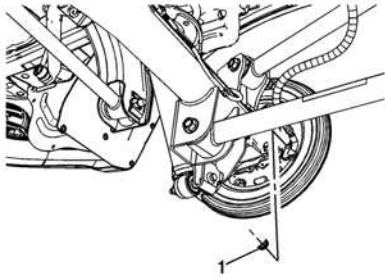
9. Release the left rear parking brake cable pass through grommet (1).
10. Remove the fuel tank. Refer to Fuel Tank Replacement.



11. Release the left rear parking brake cable from the retaining bracket (1).
12. Release the left rear parking brake cable from the routing bracket (2).



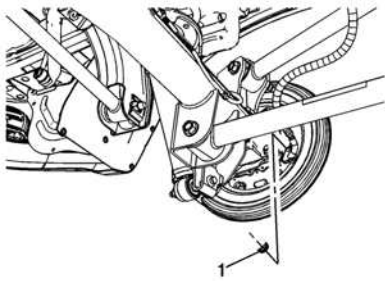
13. Remove the left rear parking brake cable bracket bolt (1).



14. Remove the left rear parking brake cable nut (1).
15. Remove the left parking brake shoes. Refer to Brake Shoe Replacement.
16. Pull the left rear parking brake cable assembly through the rear brake backing plate.

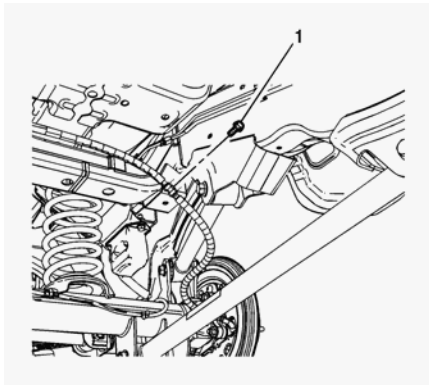
Installation Procedure

1. Install the left rear parking brake cable through the rear brake backing plate.

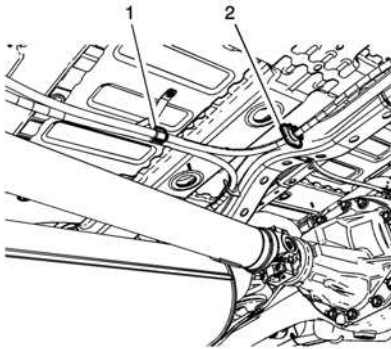


Caution: Refer to Fastener Caution.

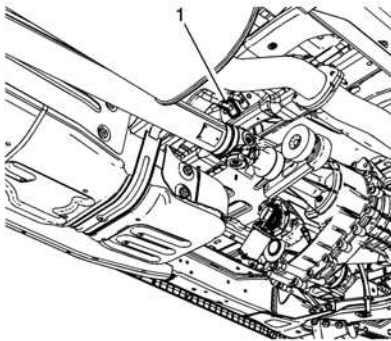
2. Install the left rear parking brake cable nut (1).
3. Install the left parking brake shoes. Refer to Brake Shoe Replacement.



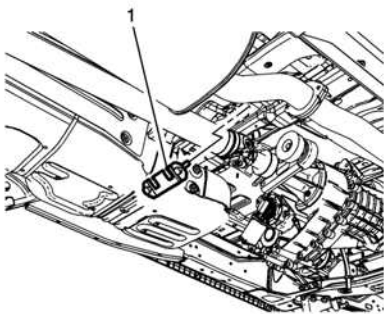
4. Install the left rear parking brake cable bracket bolt (1) and tighten to **22 Y (16 lb ft)**.



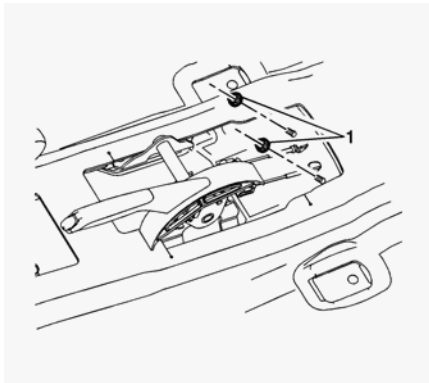
5. Install the left rear parking brake cable to the retaining bracket (1).
6. Install the left rear parking brake cable to the routing bracket (2).
7. Install the fuel tank. Refer to Fuel Tank Replacement.



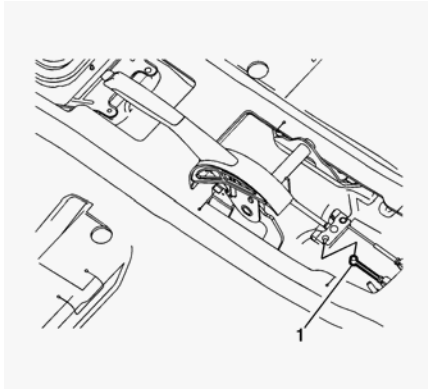
8. Install the left rear parking brake cable pass through grommet (1).



9. Install the parking brake cable retaining plate (1).
10. Install the left rear tire and wheel assembly. Refer to Tire and Wheel Removal and Installation.
11. Lower the vehicle.



12. Install the parking brake cable retainer plate nuts (1) and tighten to **25 Y (18 lb ft)**.



13. Connect the left rear parking brake cable fitting (1) to the parking brake lever equalizer.
14. Adjust the parking brake. Refer to Parking Brake Adjustment.
15. If equipped with bench seat, Install the passenger seat. Refer to Driver or Passenger Seat Removal and Installation.
16. Install the front floor console, if equipped. Refer to Front Floor Console Replacement.

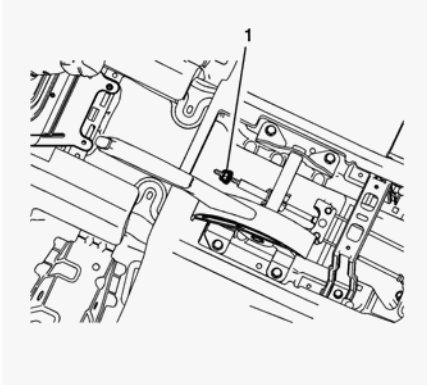
2013 Chevrolet Colorado

Submodel: | Engine Type: | Liters:

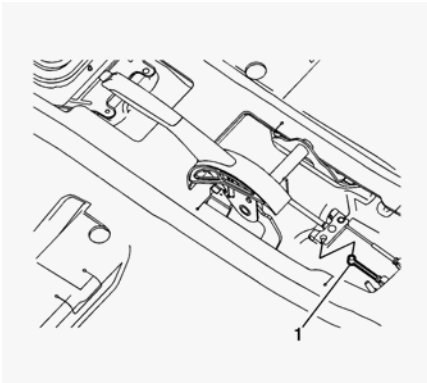
Fuel Delivery: | Fuel:

Removal Procedure

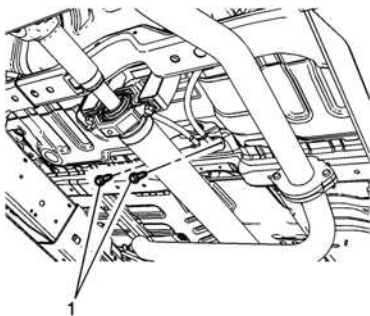
1. Remove the front floor console, if equipped. Refer to Front Floor Console Replacement.
2. If equipped with bench seat, remove the passenger seat. Refer to Driver or Passenger Seat Removal and Installation.
3. Place the parking brake lever in the fully released position.



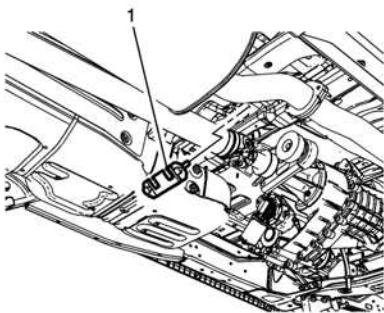
4. Using only hand tools, completely loosen the parking brake cable adjuster nut (1).



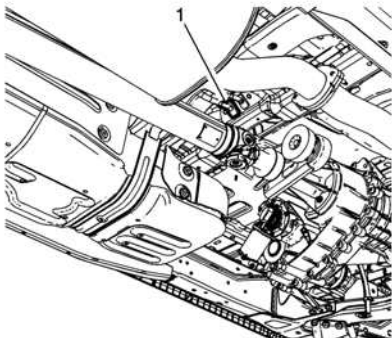
5. Disconnect the left rear parking brake cable fitting (1) from the parking brake lever equalizer.
6. Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle.



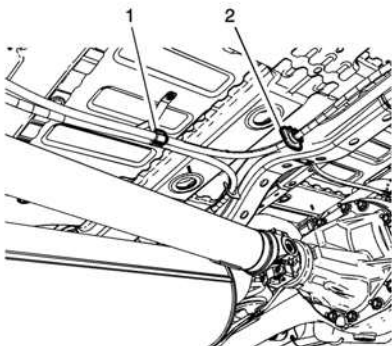
7. Remove the parking brake cable retaining plate bolts (1).



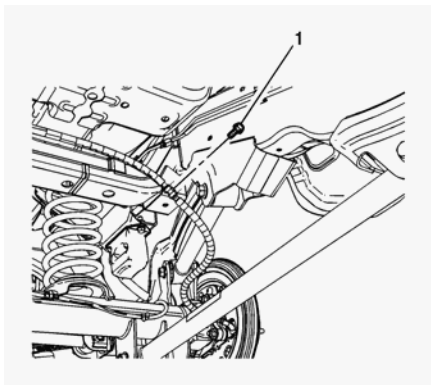
8. Remove the parking brake cable retaining plate (1).



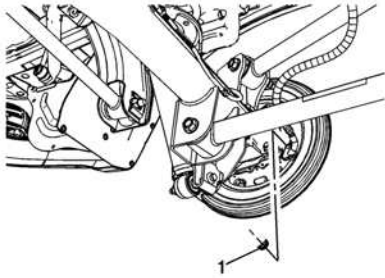
9. Release the left rear parking brake cable pass through grommet (1).
10. Remove the fuel tank. Refer to Fuel Tank Replacement.



11. Release the left rear parking brake cable from the retaining bracket (1).
12. Release the left rear parking brake cable from the routing bracket (2).



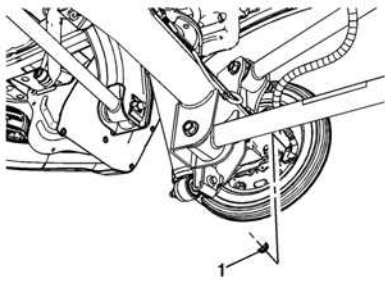
13. Remove the left rear parking brake cable bracket bolt (1).



14. Remove the left rear parking brake cable nut (1).
15. Remove the left parking brake shoes. Refer to Brake Shoe Replacement.
16. Pull the left rear parking brake cable assembly through the rear brake backing plate.

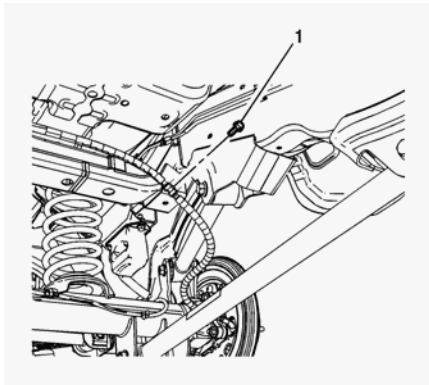
Installation Procedure

1. Install the left rear parking brake cable through the rear brake backing plate.

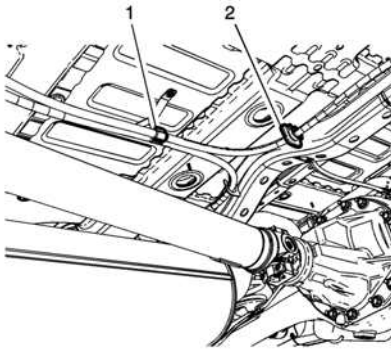


Caution: Refer to Fastener Caution.

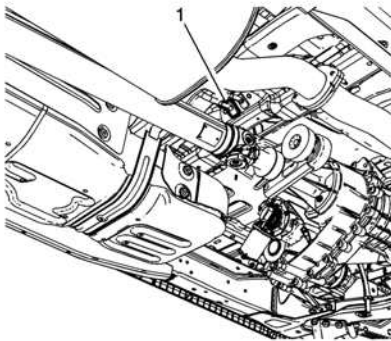
2. Install the left rear parking brake cable nut (1).
3. Install the left parking brake shoes. Refer to Brake Shoe Replacement.



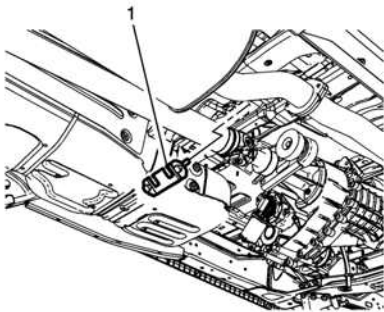
4. Install the left rear parking brake cable bracket bolt (1) and tighten to **22 Y (16 lb ft)**.



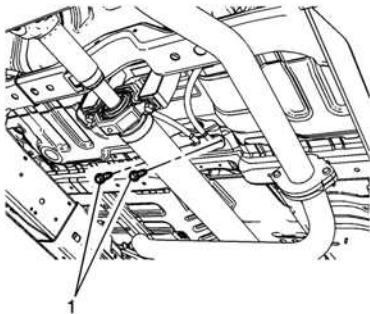
5. Install the left rear parking brake cable to the retaining bracket (1).
6. Install the left rear parking brake cable to the routing bracket (2).
7. Install the fuel tank. Refer to Fuel Tank Replacement.



8. Install the left rear parking brake cable pass through grommet (1).

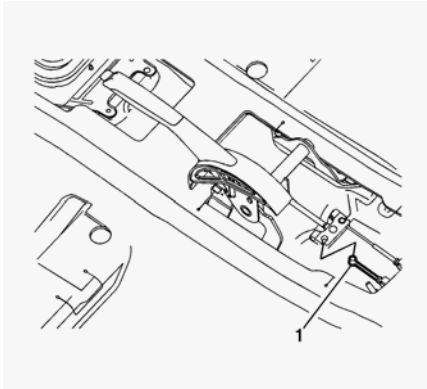


9. Install the parking brake cable retaining plate (1).
10. Install the left rear tire and wheel assembly. Refer to Tire and Wheel Removal and Installation.



11. Install the parking brake cable retaining plate bolts (1) and tighten to **22 Y (16 lb ft)**.

12. Lower the vehicle.



13. Connect the left rear parking brake cable fitting (1) to the parking brake lever equalizer.
14. Adjust the parking brake. Refer to Parking Brake Adjustment.
15. If equipped with bench seat, Install the passenger seat. Refer to Driver or Passenger Seat Removal and Installation.
16. Install the front floor console, if equipped. Refer to Front Floor Console Replacement.

2013 Chevrolet Colorado

Submodel: | **Engine Type:** | **Liters:**

Fuel Delivery: | **Fuel:**

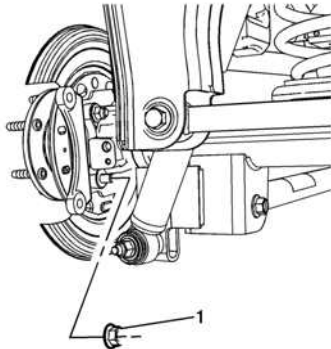
Special Tools

- J-42129 Wheel Hub Puller
- GE-02619-A Slide Hammer

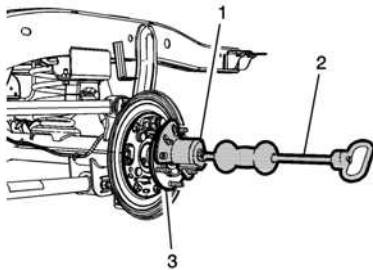
For equivalent regional tools, refer to Special Tools.

Removal Procedure

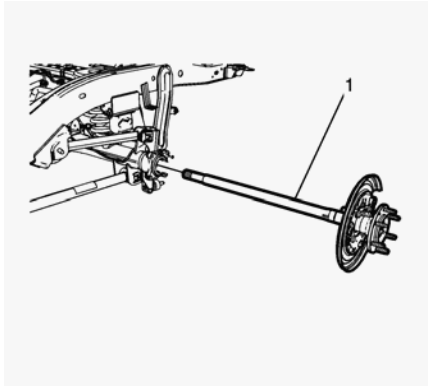
1. Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle.
2. Remove the tire and wheel assembly. Refer to Tire and Wheel Removal and Installation.
3. Remove the rear wheel speed sensor, if equipped. Refer to Rear Wheel Speed Sensor Replacement.
4. Remove the parking brake shoes. Refer to Parking Brake Shoe Replacement.



5. Remove the 4 axle bolts (1) from the axle housing.



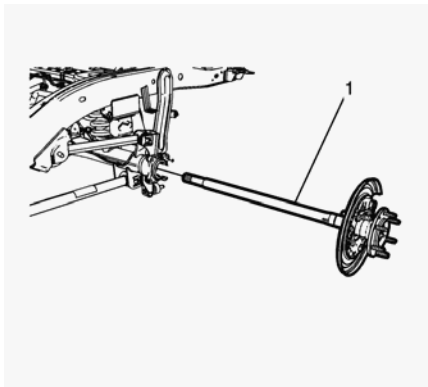
6. Using the GE-02619-A hammer (2) and the J-42129 puller (1), dis-engage the rear axle (3).
7. Remove the GE-02619-A hammer (2) and the J-42129 puller (1) from the rear axle (3).



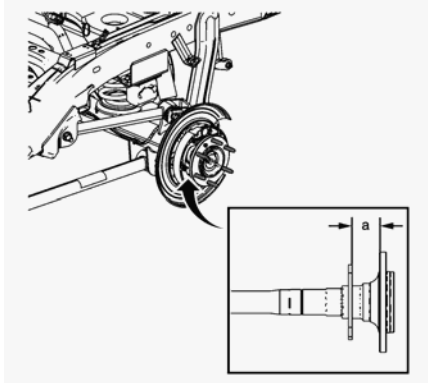
8. Remove the rear axle (1) from the vehicle.

9. If removing the rear axle shaft for service, remove the rear axle shaft seal and bearing. Refer to Rear Axle Shaft Seal and Bearing Re

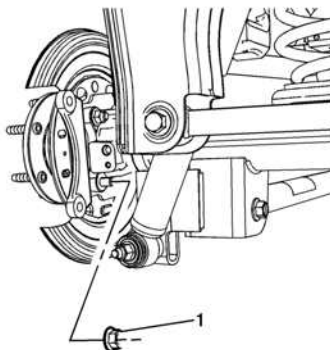
[Installation Procedure](#)



1. Install the rear axle shaft (1) in the rear axle housing.



2. Check the rear axle bearing endplay (a). Ensure that it does not exceed **0.4 mm (0.016 in)**



Caution: Refer to Fastener Caution.

3. Install the 4 rear axle shaft nuts (1) and tighten to **84 Y 62 lb ft**).
4. Install the rear wheel speed sensor, if equipped. Refer to Rear Wheel Speed Sensor Replacement.
5. Install the parking brake shoes. Refer to Parking Brake Shoe Replacement.
6. Install the tire and wheel assembly. Refer to Tire and Wheel Removal and Installation.
7. Remove the support and lower the vehicle

2013 Chevrolet Colorado

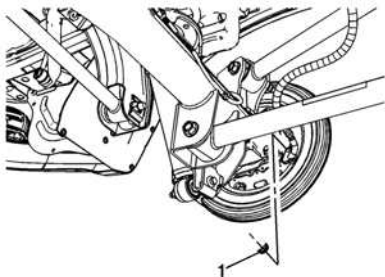
Submodel: | Engine Type: | Liters:

Fuel Delivery: | Fuel:

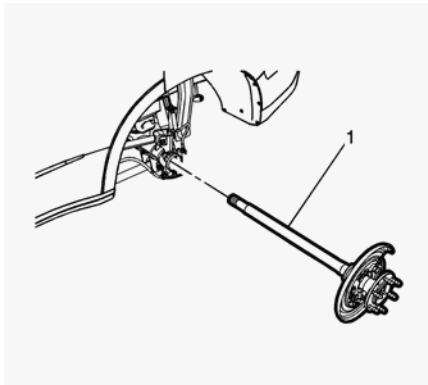
Removal Procedure

Warning: Refer to Brake Dust Warning.

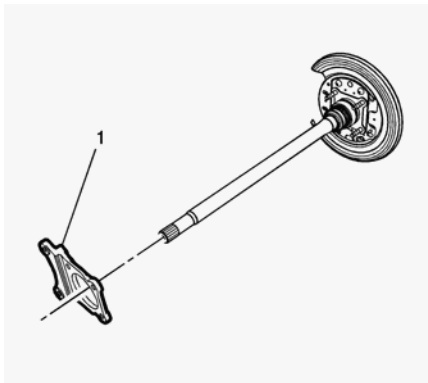
1. Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle.
2. Remove the tire and wheel assembly. Refer to Tire and Wheel Removal and Installation.
3. Remove the parking brake shoes. Refer to Parking Brake Shoe Replacement.



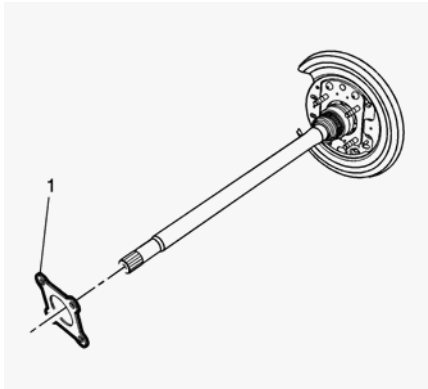
4. Remove the parking brake cable nut (1). Refer to Parking Brake Rear Cable Replacement - Left Side or Parking Brake Rear Cable Replacement - Right Side.



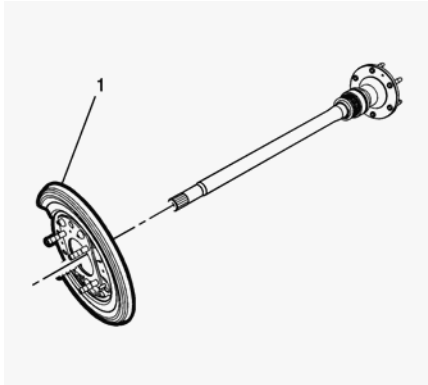
5. Remove the rear axle shaft (1). Refer to Rear Axle Shaft Replacement.



6. Remove the rear disc brake caliper anchor plate (1).
7. Remove the rear axle shaft seal and bearing. Refer to Rear Axle Shaft Seal and/or Bearing Replacement.

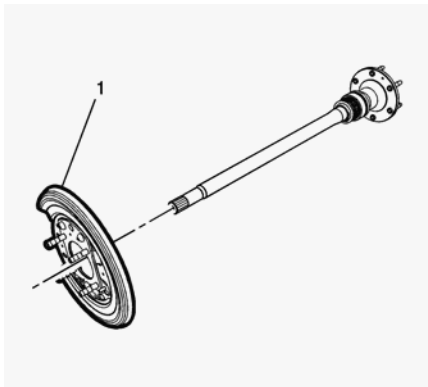


8. Remove the rear axle housing gasket (1).
9. Inspect the rear axle housing gasket for damage and replace, if necessary.

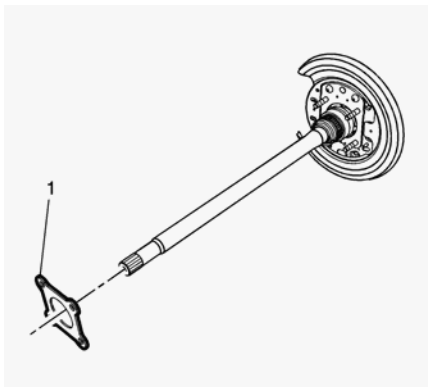


10. Remove the rear brake backing plate (1) from the rear axle shaft.

[Installation Procedure](#)

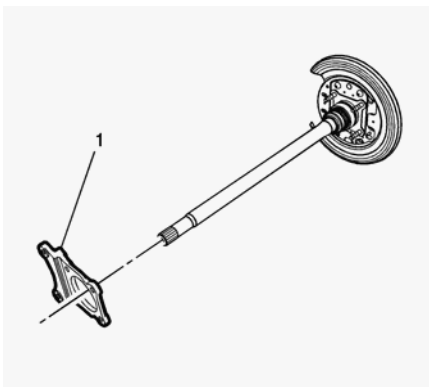


1. Install the rear brake backing plate (1) to the rear axle shaft.

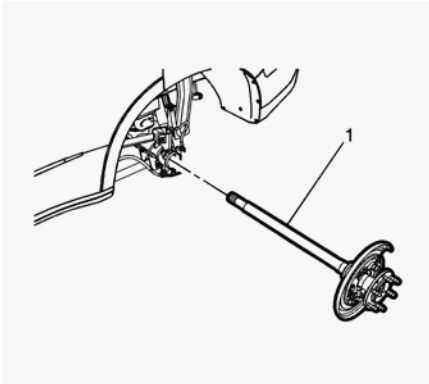


2. Install the rear axle housing gasket (1).

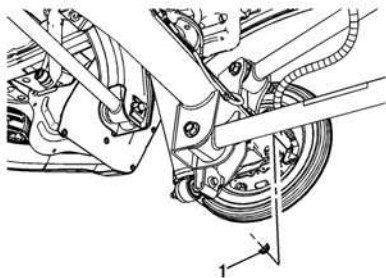
3. Install the rear axle shaft seal and bearing. Refer to Rear Axle Shaft Seal and/or Bearing Replacement.



4. Install the rear disc brake caliper anchor plate (1).



5. Install the rear axle shaft (1). Refer to Rear Axle Shaft Replacement.



6. Route the parking brake cable through the rear brake backing plate and install the parking brake cable nut (1). Refer to Parking Brake Cable Replacement - Left Side or Parking Brake Rear Cable Replacement - Right Side.
7. Install the parking brake shoes. Refer to Parking Brake Shoe Replacement.
8. Install the tire and wheel assembly. Refer to Tire and Wheel Removal and Installation.

2013 Chevrolet Colorado

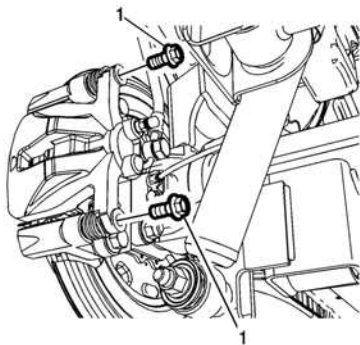
Submodel: | Engine Type: | Liters:

Fuel Delivery: | Fuel:

Removal Procedure

Warning: Refer to Brake Dust Warning.

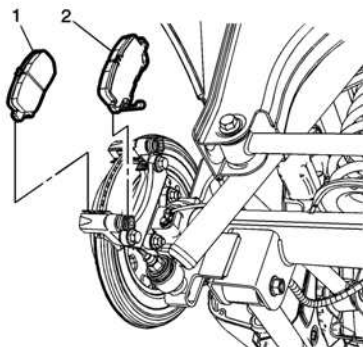
1. Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle.
2. Remove the tire and wheel assembly. Refer to Tire and Wheel Removal and Installation.



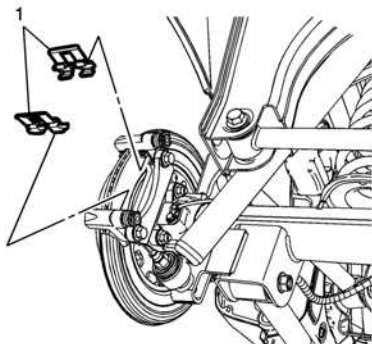
3. Remove the brake caliper guide pin bolts (1).

Caution: Support the brake caliper with heavy mechanic wire, or equivalent, whenever it is separated from its mount and the hydraulic fl hose is still connected. Failure to support the caliper in this manner will cause the flexible brake hose to bear the weight of the caliper, w damage to the brake hose and in turn may cause a brake fluid leak.

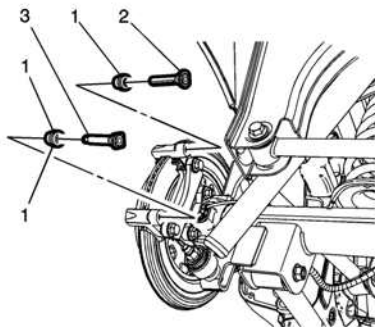
4. Remove the disc brake caliper and support with heavy mechanics wire or equivalent.



5. Remove the outer disc brake pad (1).
6. Remove the inner disc brake pad (2).

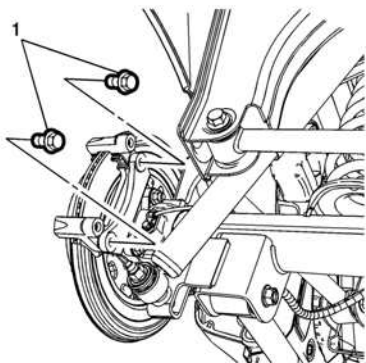


7. Remove the disc brake pad springs (1).



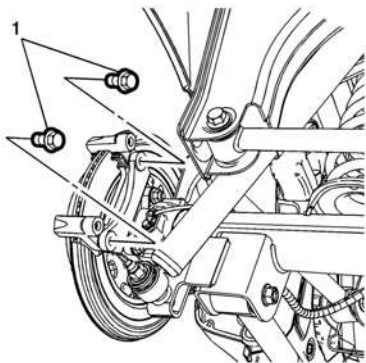
Note: The upper and lower brake caliper guide pins are different. Note the location of the guide pins for correct installation.

8. Remove the disc brake caliper guide pin seals (1), upper guide pin (1), and lower guide pin (3).



9. Remove the disc brake caliper bracket bolts (1).
10. Remove the disc brake caliper bracket.

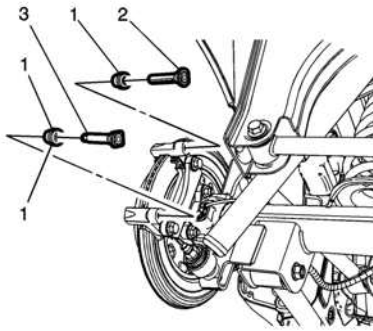
Installation Procedure



1. Install the disc brake caliper bracket.

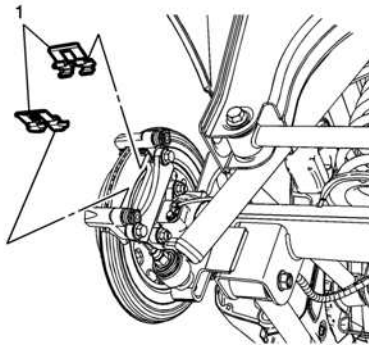
Caution: Refer to Fastener Caution.

2. Install the disc brake caliper bracket bolts (1) and tighten to **120 Y (89 lb ft)**.

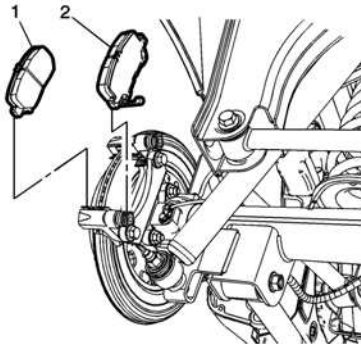


Note: The upper and lower brake caliper guide pins are different. Note the location of the guide pins for correct installation.

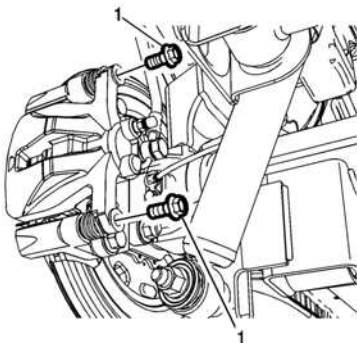
3. Install the disc brake caliper guide pin seals (1), upper guide pin (1), and lower guide pin (3).



4. Install the disc brake pad springs (1).



5. Install the outer disc brake pad (1).
6. Install the inner disc brake pad (2).
7. Install the disc brake caliper.



8. Install the brake caliper guide pin bolts (1) and tighten to **31 Y (23 lb ft)**.
9. Install the tire and wheel assembly. Refer to Tire and Wheel Removal and Installation.

2013 Chevrolet Colorado

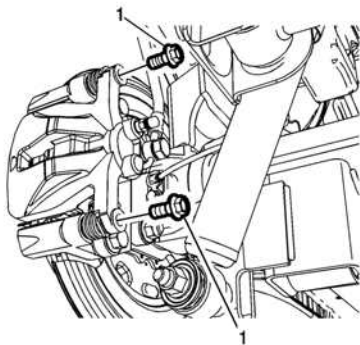
Submodel: | Engine Type: | Liters:

Fuel Delivery: | Fuel:

Removal Procedure

Warning: Refer to Brake Dust Warning.

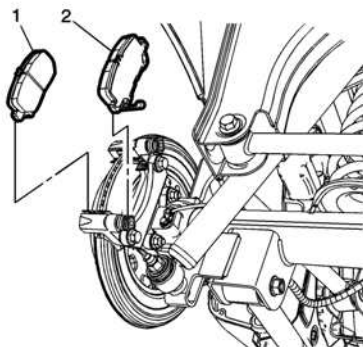
1. Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle.
2. Remove the tire and wheel assembly. Refer to Tire and Wheel Removal and Installation.



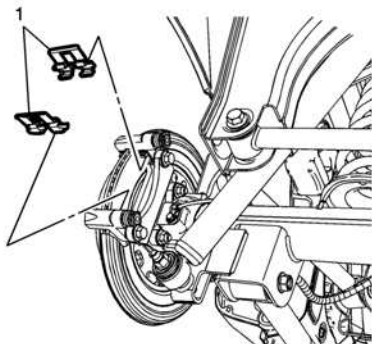
3. Remove the brake caliper guide pin bolts (1).

Caution: Support the brake caliper with heavy mechanic wire, or equivalent, whenever it is separated from its mount and the hydraulic fl hose is still connected. Failure to support the caliper in this manner will cause the flexible brake hose to bear the weight of the caliper, w damage to the brake hose and in turn may cause a brake fluid leak.

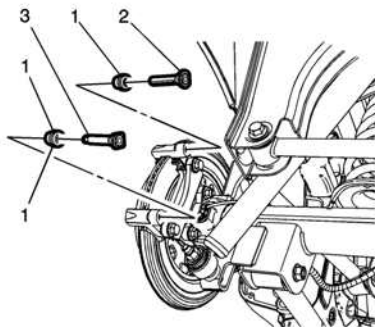
4. Remove the brake caliper and support with heavy mechanics wire or equivalent.



5. Remove the outer brake pad (1).
6. Remove the inner brake pad (2).



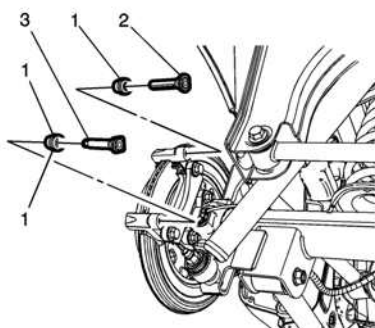
7. Remove the brake pad springs (1).



Note: The upper and lower brake caliper guide pins are different. Note the location of the guide pins for correct installation.

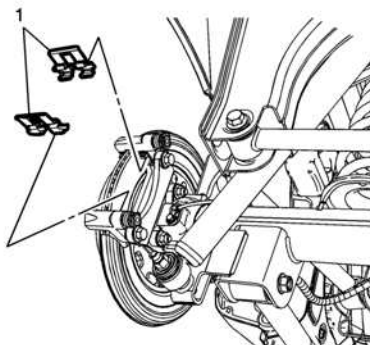
8. Remove the disc brake caliper guide pin seals (1), upper guide pin (1), and lower guide pin (3).

Installation Procedure

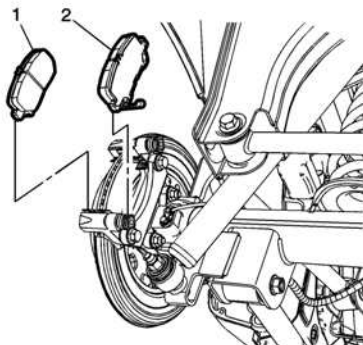


Note: The upper and lower brake caliper guide pins are different. Note the location of the guide pins for correct installation.

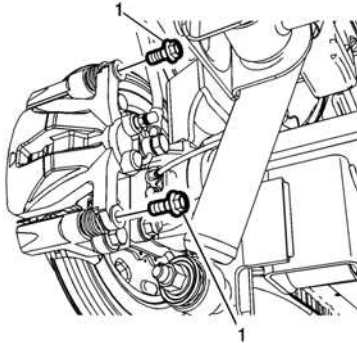
1. Install the disc brake caliper guide pin seals (1), upper guide pin (1), and lower guide pin (3).



2. Install the brake pad springs (1).



3. Install the outer brake pad (1).
4. Install the inner brake pad (2).
5. Install the brake caliper to the brake caliper bracket.



Caution: Refer to Fastener Caution.

6. Install the brake caliper guide pin bolts (1) and tighten to **31 Y (23 lb ft)**.
7. Install the tire and wheel assembly. Refer to Tire and Wheel Removal and Installation.

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Submodel: | Engine Type: | Liters:

Fuel Delivery: | Fuel:

Warning: Refer to Brake Fluid Irritant Warning.

Warning: Refer to Brake Dust Warning.

Caution: Refer to Brake Fluid Effects on Paint and Electrical Components Caution.

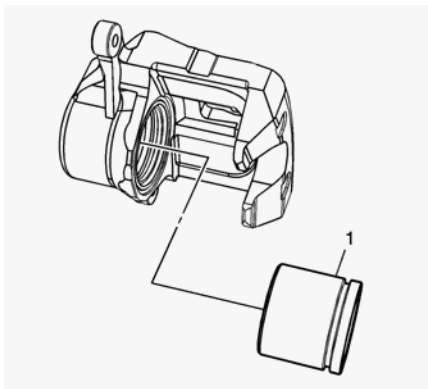
Disassembly Procedure

Warning: Do not place fingers in front of the caliper piston(s) in an attempt to catch or protect it when applying compressed air. The piston(s) could force and could result in serious bodily injury.

Note:

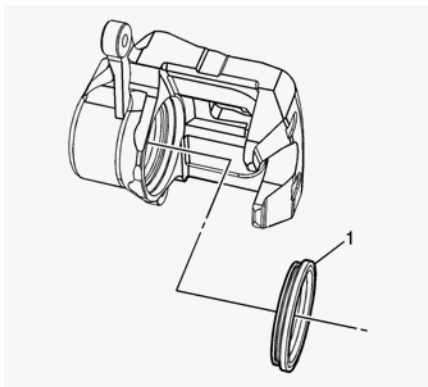
- Replace all the components included in the repair kits used to service this brake caliper.
- Lubricate the rubber parts with GM approved brake fluid from a clean, sealed brake fluid container to make assembly easier.
- If any hydraulic component is removed or disconnected, it may be necessary to bleed all or part of the brake system.
- The torque values specified are for dry, non-lubricated fasteners.
- Perform the service operations on a clean bench, free from all mineral oil materials.

1. Remove the brake caliper from the vehicle. Refer to Rear Brake Caliper Replacement.
2. Drain the brake fluid from the brake caliper.

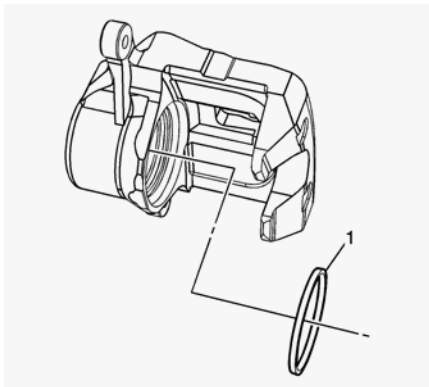


Caution: Use clean cloths to pad interior of caliper housing during piston removal. Use just enough air to ease the pistons out of the bore. If the pistons are blown out, even with the padding provided, it may be damaged.

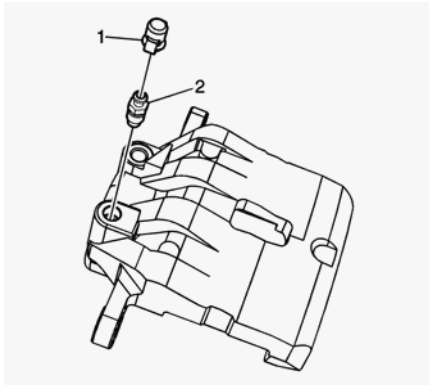
3. Place a 25 mm (1 in) block of wood between the caliper housing and the piston.
4. Install a large C-clamp over the body of the brake caliper with the C-clamp ends against the rear of the caliper body and against the block of wood.
5. Carefully remove the brake caliper piston (1) by directing low pressure compressed air into the brake caliper inlet hole.
6. Remove the C-clamp from the caliper.
7. Remove the block of wood from the caliper.



8. Remove the piston dust boot seal (1) from the seal counterbore in the brake caliper and discard the dust boot seal.



9. Using a small wooden or plastic tool, remove the piston seal (1) from the brake caliper bore and discard the piston seal.

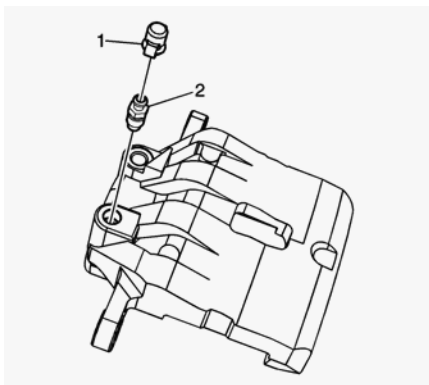


10. Remove the brake caliper bleeder valve cap (1) and bleeder valve (2).

Note: Do not use abrasives to clean the brake caliper pistons.

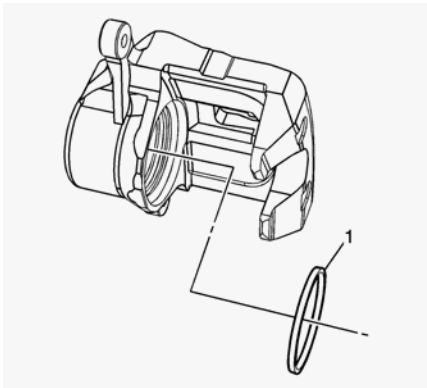
11. Inspect the brake caliper mounting bracket guide surfaces for corrosion and wear. Remove and replace the brake caliper mounting bracket if worn.
12. Clean the brake caliper piston bores and seal counterbore with denatured alcohol, or equivalent.
13. Clean the brake caliper piston with denatured alcohol, or equivalent.
14. Dry the caliper piston bore and counterbore with non-lubricated, filtered air.
15. Dry the brake caliper piston with non-lubricated, filtered air.
16. Inspect the caliper bore for cracks, scoring, pitting, excessive corrosion.
17. If light corrosion is present in the caliper bore, attempt to remove the imperfection with a fine emery paper. If the imperfection cannot be removed, replace the caliper assembly.
18. If cracks, scoring, pitting, and excessive corrosion are present in the caliper bore, replace the caliper assembly.
19. Inspect the caliper piston for cracks, scoring, and/or damage. Replace the caliper piston if any of these conditions exist.

Assembly Procedure



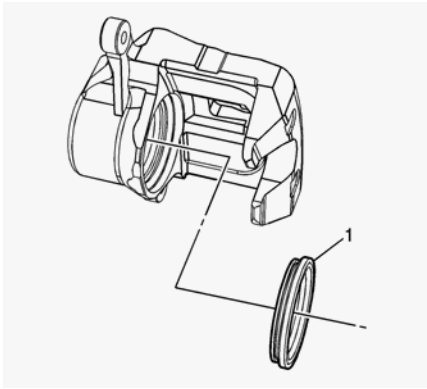
Caution: Refer to Fastener Caution.

1. Install the brake caliper bleeder valve (2) and tighten to **12 Y (106 lb in)**.
2. Install the brake caliper bleeder valve cap (1).



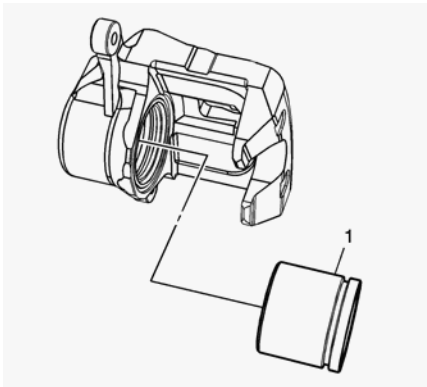
3. Lubricate the new piston seal (1) with GM approved brake fluid from a clean, sealed brake fluid container.
4. Install lubricated piston seal into the brake caliper bore seal groove.

Ensure the seal is not twisted.



5. Install the piston dust boot seal (1) to the caliper.

Ensure the seal is seated evenly and completely into the groove in the caliper housing.



6. Place the caliper piston into the caliper housing by carefully lifting the edge of the dust boot seal.
7. Carefully push the piston (1) squarely into the brake caliper bore.
8. Ensure the caliper dust boot is properly seated into the piston groove and into the groove in the brake caliper bore.
9. Install the brake caliper to the vehicle. Refer to Rear Brake Caliper Replacement.

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Submodel: | Engine Type: | Liters:

Fuel Delivery: | Fuel:

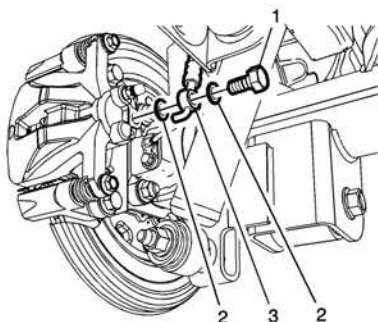
Removal Procedure

Warning: Refer to Brake Dust Warning.

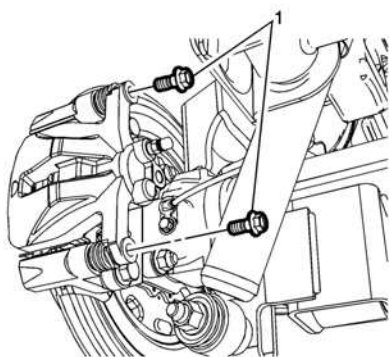
Warning: Refer to Brake Fluid Irritant Warning.

Caution: Refer to Brake Fluid Effects on Paint and Electrical Components Caution.

1. Inspect the fluid level in the brake master cylinder reservoir.
2. If the brake fluid level is midway between the maximum full point and the minimum allowable level, no brake fluid needs to be removed from the reservoir before proceeding.
3. If the brake fluid level is higher than midway between the maximum full point and the minimum allowable level, remove brake fluid to the minimum allowable level before proceeding.
4. Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle.
5. Remove the tire and wheel assembly. Refer to Tire and Wheel Removal and Installation.
6. Install a C-clamp against the outer brake pad and the rear of the brake caliper body.
7. Slowly tighten the C-clamp until the brake caliper piston is compressed into the brake caliper bore.



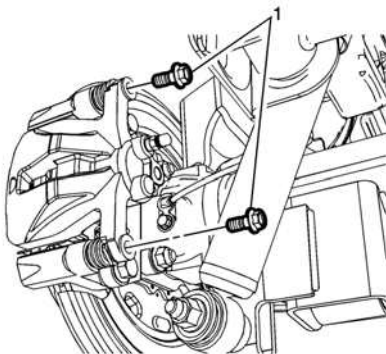
8. Remove the brake hose fitting bolt (1).
9. Remove the brake hose fitting gaskets (2) and the brake hose (3).
10. Discard the brake hose fitting gaskets.



11. Remove the brake caliper guide pin bolts (1).
12. Remove the brake caliper.

Installation Procedure

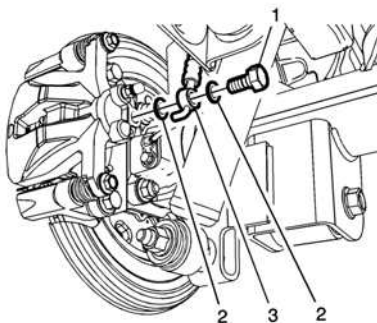
1. Install the brake caliper.



Caution: Refer to Fastener Caution.

Note: The brake caliper guide pin bolts must be replaced any time they are removed.

2. Install the brake caliper guide pin bolts (1) and tighten to **31 Y (23 lb ft)**.



3. Assemble the brake hose fitting bolt (1) and 2 new brake hose fitting gaskets (2) to the brake hose (3).
4. Install the brake hose assembly to the caliper and tighten the fitting bolt to **34 Y (25 lb ft)**.
5. Bleed the hydraulic brake system. Refer to Hydraulic Brake System Bleeding.
6. Install the tire and wheel assembly. Refer to Tire and Wheel Removal and Installation.
7. With the engine OFF, gradually apply the brake pedal to approximately $\frac{2}{3}$ of its travel distance.
8. Slowly release the brake pedal.
9. Wait 15 seconds, then repeat steps 7 and 8 until a firm brake pedal apply is obtained. This will properly seat the brake caliper pistons.
10. Fill the brake master cylinder reservoir to the proper level. Refer to Master Cylinder Reservoir Filling.

2013 Chevrolet Colorado

Submodel: | Engine Type: | Liters:
Fuel Delivery: | Fuel:

Special Tools

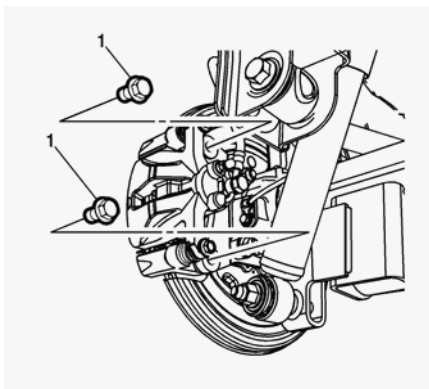
- CH-41013 Rotor Resurfacing Kit
- CH-42450-A Wheel Hub Resurfacing Kit

For equivalent regional tools, refer to Special Tools.

[Removal Procedure](#)

Warning: Refer to Brake Dust Warning.

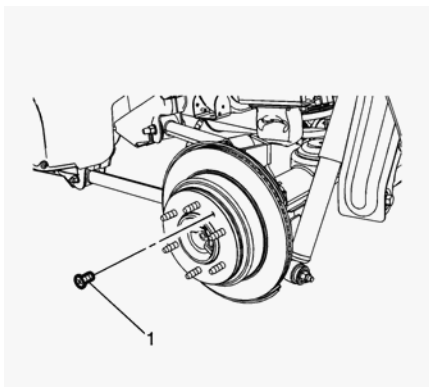
1. Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle.
2. Remove the tire and wheel assembly. Refer to Tire and Wheel Removal and Installation.



3. Remove the disc brake caliper bracket bolts (1).

Caution: Support the brake caliper with heavy mechanic wire, or equivalent, whenever it is separated from its mount and the hydraulic fluid hose is still connected. Failure to support the caliper in this manner will cause the flexible brake hose to bear the weight of the caliper, with damage to the brake hose and in turn may cause a brake fluid leak.

4. Remove the disc brake caliper and bracket assembly and support with heavy mechanics wire or equivalent.

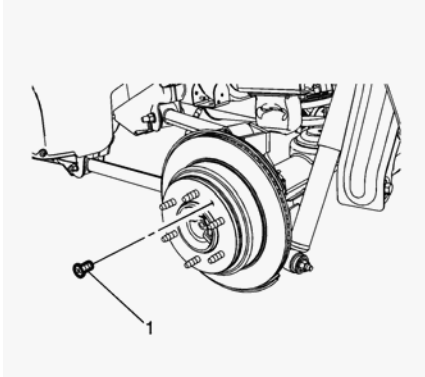


5. Remove the disc brake rotor bolt (1).
6. Remove the disc brake rotor.

[Installation Procedure](#)

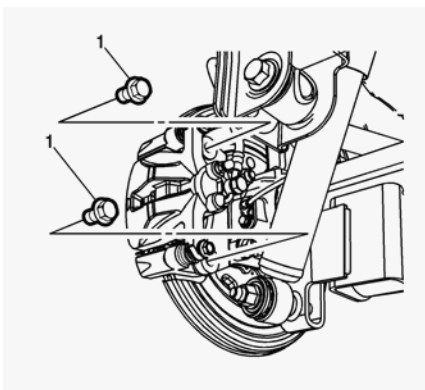
Note: Whenever the brake rotor has been separated from the hub/axle flange, any rust or contaminants should be cleaned from the hub/axle flange and rotor mating surfaces. Failure to do this may result in excessive assembled lateral runout (LRO) of the brake rotor, which could lead to brake pulsation.

1. Using the CH-42450-A Wheel Hub Resurfacing Kit, thoroughly clean any rust or corrosion from the mating surface of the hub/axle flange.
2. Using the CH-41013 Rotor Resurfacing Kit, thoroughly clean any rust or corrosion from the mating surface and mounting surface of the rotor.
3. Inspect the mating surfaces of the hub/axle flange and the rotor to ensure there are no foreign particles or debris remaining.
4. Install the disc brake rotor.



Caution: Refer to Fastener Caution.

5. Install the disc brake rotor bolt (1) and tighten to **9 Y (80 lb in)**.
6. Install the disc brake caliper and bracket assembly.



7. Install the disc brake caliper bracket bolts (1) and tighten to **120 Y (89 lb ft)**.
8. Inspect the parking brake adjustment. Refer to Parking Brake Adjustment.
9. Install the tire and wheel assembly. Refer to Tire and Wheel Removal and Installation.
10. If the brake rotor was refinished or replaced, or if new brake pads were installed, burnish the pads and rotors. Refer to Brake Pad and Burnishing.

2013 Chevrolet Colorado

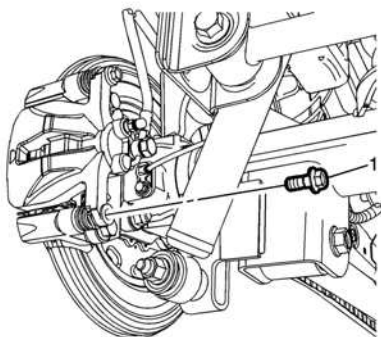
Submodel: | Engine Type: | Liters:

Fuel Delivery: | Fuel:

Removal Procedure

Warning: Refer to Brake Dust Warning.

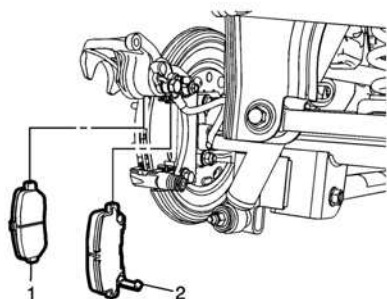
1. Inspect the fluid level in the brake master cylinder reservoir.
2. If the brake fluid level is midway between the maximum full point and the minimum allowable level, no brake fluid needs to be removed from the reservoir before proceeding.
3. If the brake fluid level is higher than midway between the maximum full point and the minimum allowable level, remove brake fluid to the minimum allowable level before proceeding.
4. Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle.
5. Remove the tire and wheel assembly. Refer to Tire and Wheel Removal and Installation.
6. Install a C-clamp against the outer brake pad and the rear of the brake caliper body.
7. Slowly tighten the C-clamp until the brake caliper pistons are compressed into the brake caliper bores.



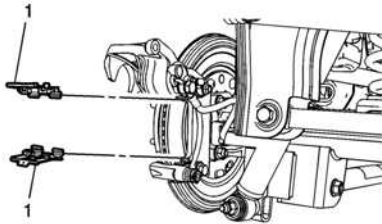
8. Remove the lower brake caliper guide pin bolt (1).

Caution: Support the brake caliper with heavy mechanic wire, or equivalent, whenever it is separated from its mount and the hydraulic flexible brake hose is still connected. Failure to support the caliper in this manner will cause the flexible brake hose to bear the weight of the caliper, which may cause damage to the brake hose and in turn may cause a brake fluid leak.

9. Rotate the brake caliper upward and support with heavy mechanics wire or equivalent.



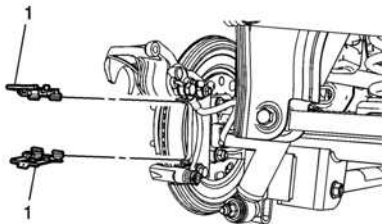
10. Remove the outer brake pad (1).
11. Remove the inner brake pad (2).



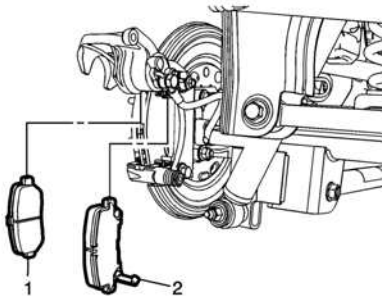
12. Remove the brake pad springs (1).

Installation Procedure

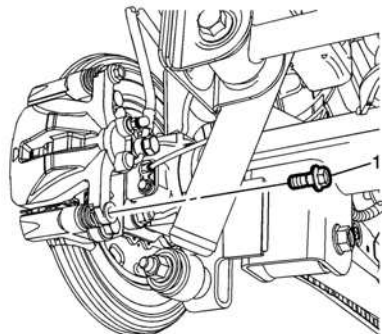
1. Clean the brake pad spring contact points on the brake caliper bracket of any corrosion or debris.



2. Install the brake pad springs (1).



3. Install the outer brake pad (1).
4. Install the inner brake pad (2).
5. Rotate the brake caliper to the installed position.

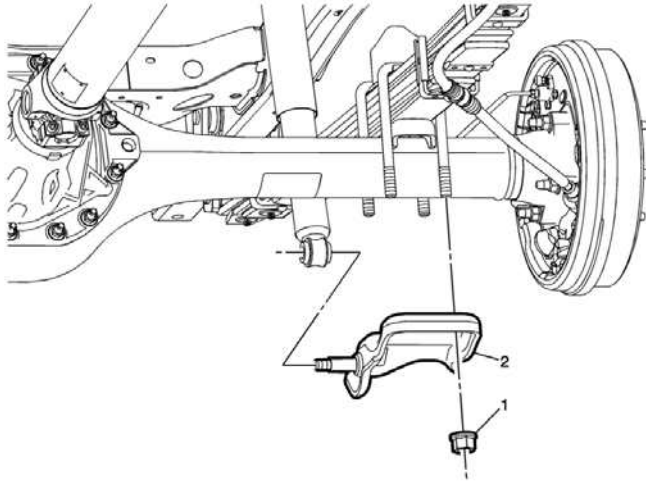


Caution: Refer to Fastener Caution.

6. Install the brake caliper guide pin bolt (1) and tighten to **31 Y (23 lb ft)**.
7. Install the tire and wheel assembly. Refer to Tire and Wheel Removal and Installation.
8. With the engine OFF, gradually apply the brake pedal to approximately 2/3 of its travel distance.
9. Slowly release the brake pedal.
10. Wait 15 seconds, then repeat steps 8 and 9 until a firm brake pedal apply is obtained. This will properly seat the brake caliper pistons.
11. Fill the brake master cylinder reservoir to the proper level. Refer to Master Cylinder Reservoir Filling.
12. Burnish the pads and rotors. Refer to Brake Pad and Rotor Burnishing.

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Submodel: | Engine Type: | Liters:
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Rear Spring Anchor Plate Replacement

Callout

Component Name

Preliminary Procedure

Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle.

Rear Spring Anchor Plate Nut (Qty: 4)

Caution: Refer to Fastener Caution.

Procedure

- 1
 1. Using a hydraulic jack stand, support the rear axle.
 2. Remove the lower shock absorber nut. Refer to Shock Absorber Replacement.

Tighten

78 Y (56 lb ft)

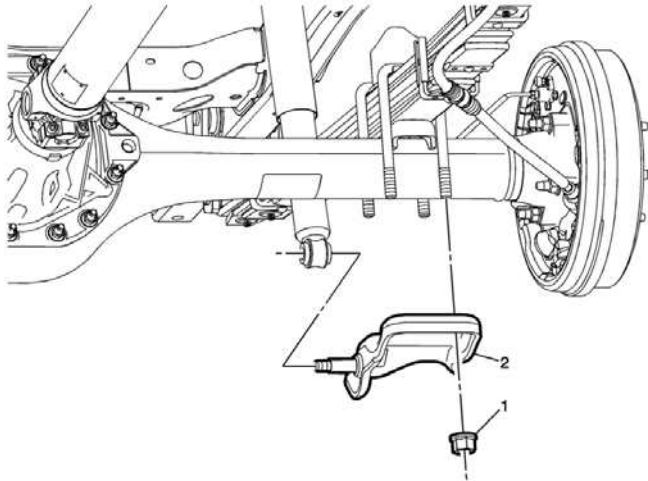
Rear Spring Anchor Plate

- 2
 - Procedure**

Replace the u-bolts or the bumper if either are found to be damaged or excessively worn.

2013 Chevrolet Colorado

Submodel: | **Engine Type:** | **Liters:**
Fuel Delivery: | **Fuel:**



Rear Spring Anchor Plate Replacement

Callout

Component Name

Preliminary Procedure

Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle.

Rear Spring Anchor Plate Nut (Qty: 4)

Caution: Refer to Fastener Caution.

Procedure

- 1
 1. Using a hydraulic jack stand, support the rear axle.
 2. Remove the lower shock absorber nut. Refer to Shock Absorber Replacement.

Tighten

120 Y (89 lb ft)

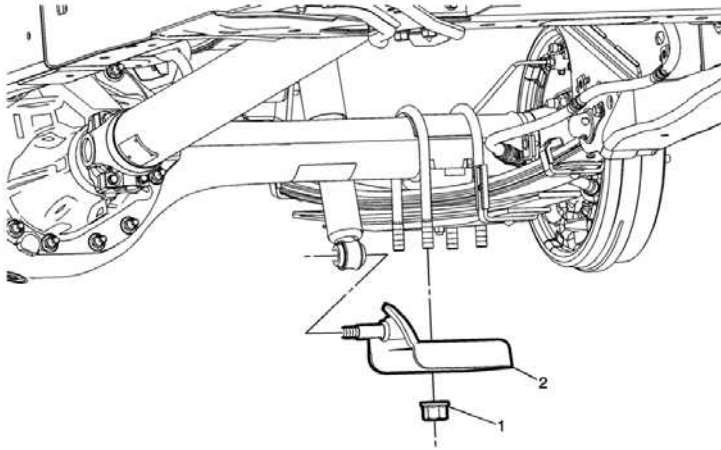
Rear Spring Anchor Plate

- 2
 - Procedure**

Replace the u-bolts or the bumper if either are found to be damaged or excessively worn.

2013 Chevrolet Colorado

Submodel: | Engine Type: | Liters:
Fuel Delivery: | Fuel:



Rear Spring Anchor Plate Replacement

Callout

Component Name

Preliminary Procedure

Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle.

Rear Spring Anchor Plate Nut (Qty: 4)

Caution: Refer to Fastener Caution.

Procedure

- 1
 1. Using a hydraulic jack stand, support the rear axle.
 2. Remove the lower shock absorber nut. Refer to Shock Absorber Replacement.

Tighten

78 Y (56 lb ft)

Rear Spring Anchor Plate

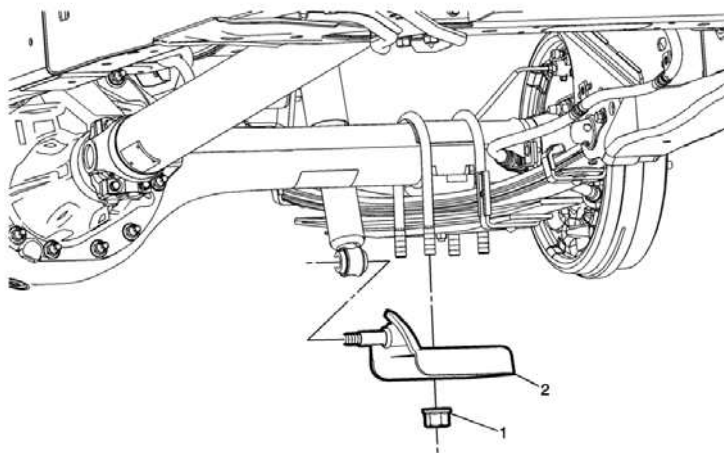
- 2
 - Procedure**

Replace the u-bolts if found to be damaged or excessively worn.

2013 Chevrolet Colorado

Submodel: | Engine Type: | Liters:

Fuel Delivery: | Fuel:



Rear Spring Anchor Plate Replacement

Callout

Component Name

Preliminary Procedure

Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle.

Rear Spring Anchor Plate Nut (Qty: 4)

Caution: Refer to Fastener Caution.

Procedure

1

1. Using a hydraulic jack stand, support the rear axle.
2. Remove the lower shock absorber nut. Refer to Shock Absorber Replacement.

Tighten

120 Y (89 lb ft)

Rear Spring Anchor Plate

2

Procedure

Replace the u-bolts if found to be damaged or excessively worn.

2013 Chevrolet Colorado

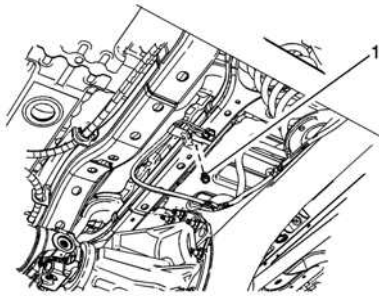
Submodel: | Engine Type: | Liters:
Fuel Delivery: | Fuel:

Removal Procedure

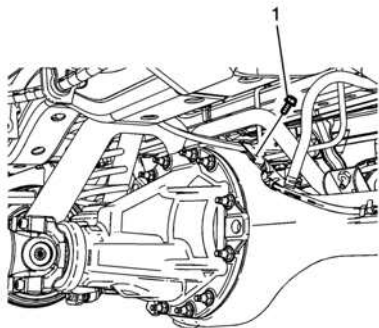
Warning: Refer to Brake Dust Warning.

Note: The left and right rear wheel speed sensor is replaced as an assembly.

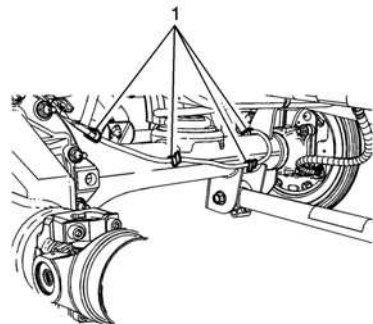
1. Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle.



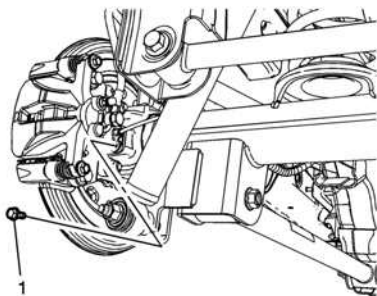
2. Disconnect the wheel speed sensor harness electrical connector.
3. Remove the wheel speed sensor harness bracket bolt (1) from the vehicle floor pan.



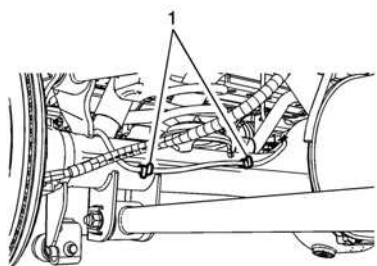
4. Remove the wheel speed sensor harness bracket bolt (1) from the rear axle housing.



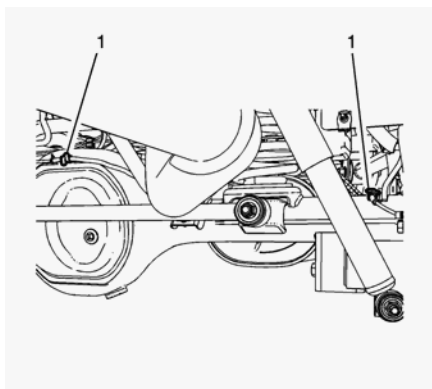
5. Release the left wheel speed sensor harness clip (1).



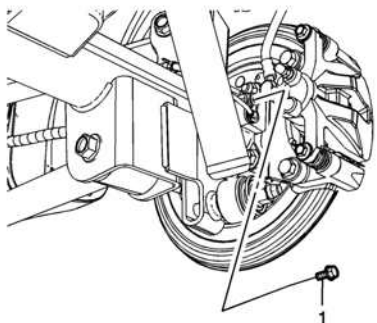
6. Thoroughly clean the wheel speed sensor mounting area of the rear axle of any dirt and debris.
7. Remove the left rear wheel speed sensor bolt (1).
8. Carefully remove the wheel speed sensor from the rear axle by pulling straight outward.



9. Release the right wheel speed sensor harness from the rear axle clips (1).



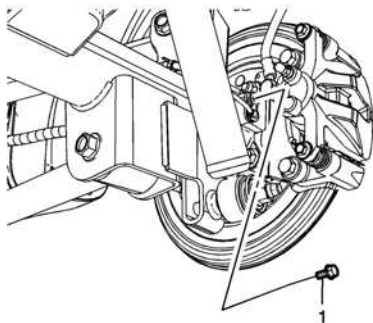
10. Release the right wheel speed sensor harness from the rear axle clips (1).



11. Thoroughly clean the wheel speed sensor mounting area of the rear axle of any dirt and debris.
12. Remove the right rear wheel speed sensor bolt (1).
13. Carefully remove the wheel speed sensor from the rear axle by pulling straight outward.
14. Remove the wheel speed sensor harness assembly.

Installation Procedure

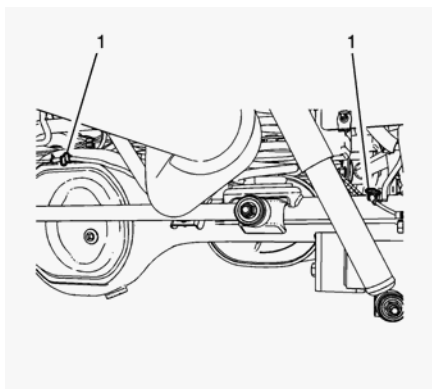
1. Install the wheel speed sensor harness assembly.



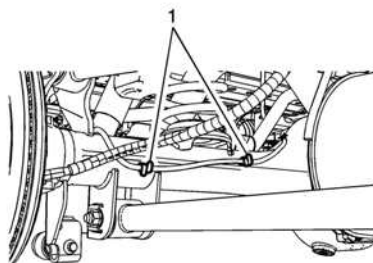
2. Install the right rear wheel speed sensor to the rear axle.

Caution: Refer to Fastener Caution.

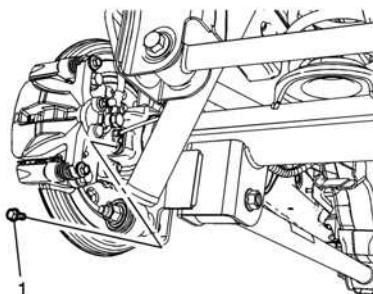
3. Install the right rear wheel speed sensor bolt (1) and tighten to 11 Y (97 lb in).



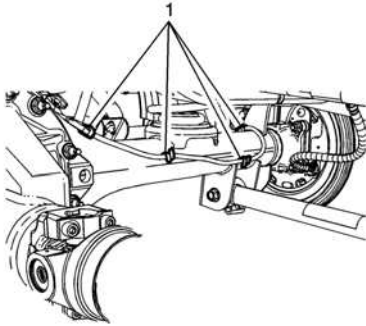
4. Install the right wheel speed sensor harness to the rear axle clips (1).



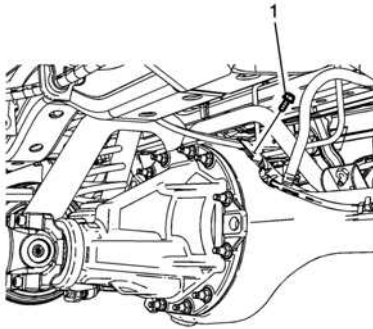
5. Install the right wheel speed sensor harness to the rear axle clips (1).



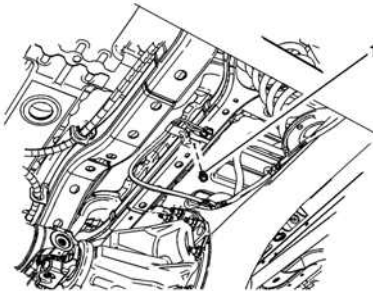
6. Install the left rear wheel speed sensor bolt (1) and tighten to **11 Y (97 lb in)**.



7. Install the left wheel speed sensor harness clip (1).



8. Install the wheel speed sensor harness bracket bolt (1) and tighten to **11 Y (97 lb in)**.
9. Install the right wheel speed sensor harness clip (2).



10. Install the wheel speed sensor harness bracket bolt (1) and tighten to **11 Y (97 lb in)**.
11. Connect the wheel speed sensor harness electrical connector.

2013 Chevrolet Colorado

Submodel: | Engine Type: | Liters:
Fuel Delivery: | Fuel:

Illustration



Tool Number/ Description

GE 8001

J 8001

MKM 571 B

Dial Indicator Set