

2013 Chevrolet Colorado

Submodel: | Engine Type: | Liters:

Fuel Delivery: | Fuel:

Removal Procedure

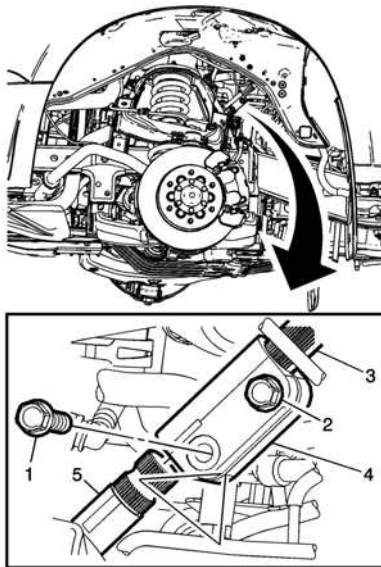
Caution: With wheels of the vehicle facing straight ahead, secure the steering wheel utilizing steering column anti-rotation pin, steering column lock strap to prevent rotation. Locking of the steering column will prevent damage and a possible malfunction of the SIR system. The steering column must be secured in position before disconnecting the following components:

- The steering column
- The intermediate shaft(s)
- The steering gear

After disconnecting these components, do not rotate the steering wheel or move the front tires and wheels. Failure to follow this procedure may cause the SIR coil assembly to become un-centered and cause possible damage to the SIR coil. If you think the SIR coil has become un-centered, refer to your specific SIR coil's centering procedure to re-center SIR Coil.

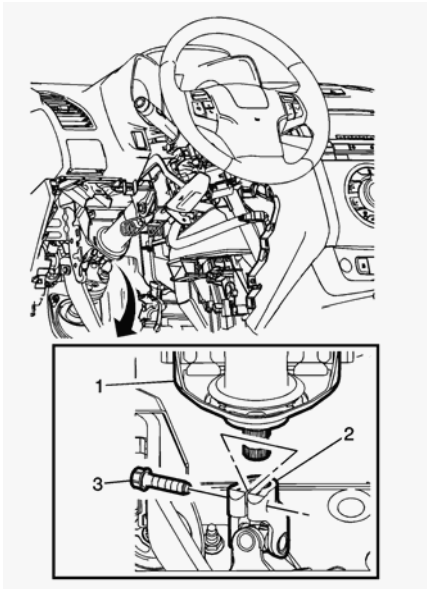
Note: If the intermediate steering shaft clamp is disconnected from the intermediate steering shaft for any reason, all of the old grease must be removed from the clamp and the shaft. Both the intermediate steering shaft clamp and intermediate steering shaft clamp upper bolt must be replaced with new parts only. After all parts have been installed and all fasteners have been tightened to specification, NEW high pressure grease must be applied to the unpainted, serrated area of the intermediate steering shaft. If the old grease is not removed completely or the NEW high pressure grease is not applied before all fasteners are tightened to specification, a false reading can occur.

1. With the steering wheel in the straight ahead position, LOCK the steering column.
2. Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle.
3. Remove the driver's side front tire and wheel assembly. Refer to Tire and Wheel Removal and Installation.

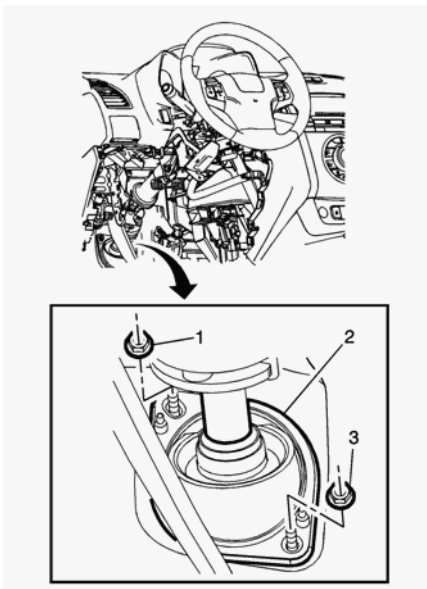


4. Place match marks on the following parts:

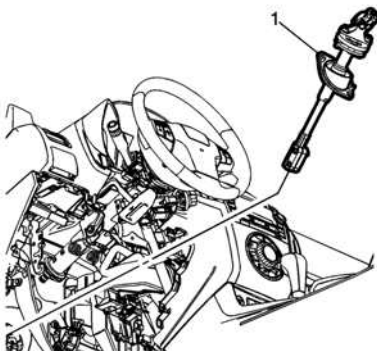
- The intermediate steering shaft (3)
- The intermediate steering shaft clamp (4)
- The lower steering shaft (5)
- Loosen the intermediate steering shaft clamp upper bolt (2).
- Remove the intermediate steering shaft clamp lower bolt (1).
- Disconnect the intermediate steering shaft clamp from the lower steering shaft.
- Remove the driver's side instrument lower panel. Refer to Instrument Lower Panel Replacement.



- Place match marks on the intermediate steering shaft (2) and steering column shaft.
- Remove the intermediate steering shaft upper bolt (3).
- Disconnect the intermediate steering shaft from the steering column shaft.



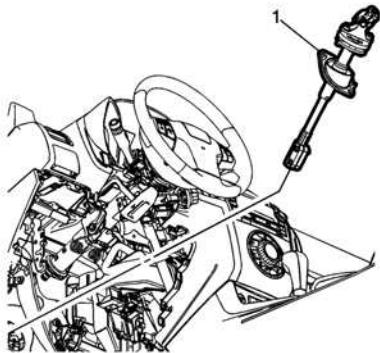
- Remove the 2 intermediate steering shaft boot nuts (1, 3).
- Disconnect the steering column dash seal (2) from the dash panel.



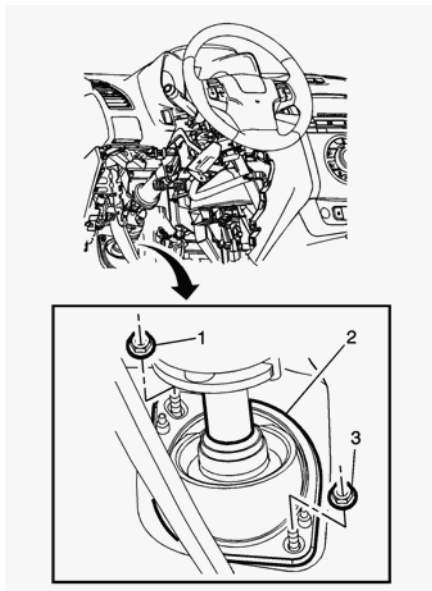
- Remove the intermediate steering shaft (1) from the vehicle.
- Transfer components as necessary.

Installation Procedure

1. If you are replacing the intermediate steering shaft, copy the match marks from the old parts to the new parts.



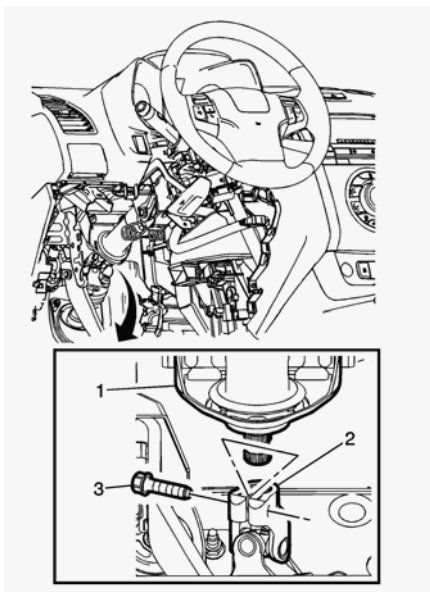
2. Position the intermediate steering shaft (1) in the vehicle.



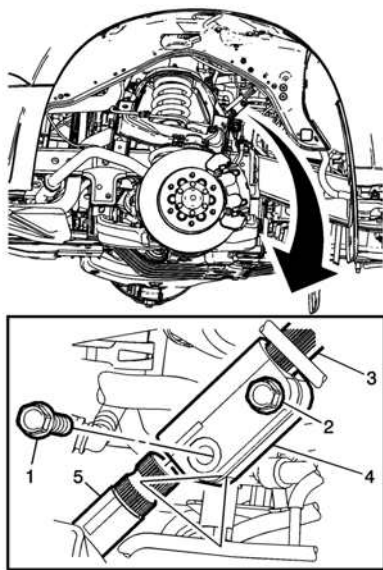
3. Connect the steering column dash seal (2) to the dash panel.

Caution: Refer to Fastener Caution.

4. Install the 2 intermediate steering shaft boot nuts (1, 3) and tighten to 7 Y (62 lb in).



5. Align the match marks and connect the intermediate steering shaft (2) to the steering column shaft.
6. Install the intermediate steering shaft upper bolt (3) and tighten to **31 Y (23 lb ft)**.
7. Install the driver's side instrument lower panel. Refer to Instrument Lower Panel Replacement.



8. Align the match marks and connect the intermediate steering shaft clamp (4) to the lower steering shaft (5).
9. Install the intermediate steering shaft clamp lower bolt (1) and tighten to **31 Y (23 lb ft)**.
10. Tighten the intermediate steering shaft clamp upper bolt (2) to **31 Y (23 lb ft)**.
11. Install the driver's side front tire and wheel assembly. Refer to Tire and Wheel Removal and Installation.

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Removal Procedure

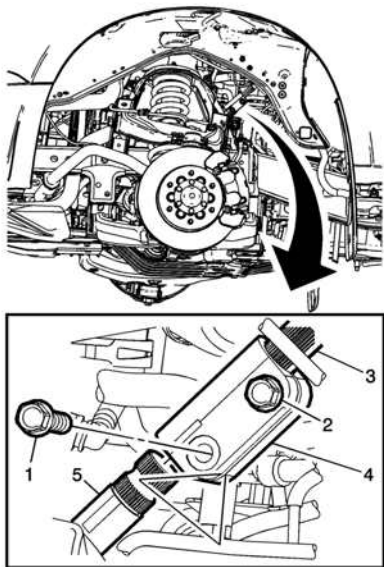
Caution: With wheels of the vehicle facing straight ahead, secure the steering wheel utilizing steering column anti-rotation pin, steering column lock strap to prevent rotation. Locking of the steering column will prevent damage and a possible malfunction of the SIR system. The steering column must be secured in position before disconnecting the following components:

- The steering column
- The intermediate shaft(s)
- The steering gear

After disconnecting these components, do not rotate the steering wheel or move the front tires and wheels. Failure to follow this procedure may cause the SIR coil assembly to become un-centered and cause possible damage to the SIR coil. If you think the SIR coil has become un-centered, follow your specific SIR coil's centering procedure to re-center SIR Coil.

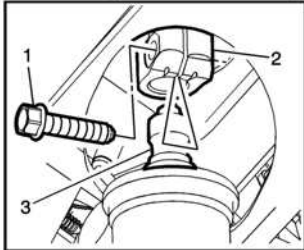
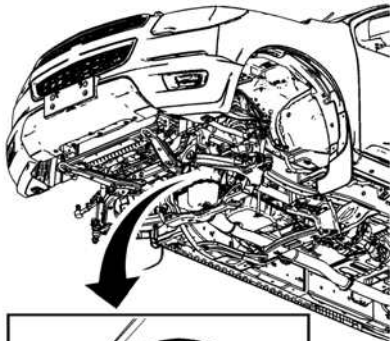
Note: If the intermediate steering shaft clamp is disconnected from the intermediate steering shaft for any reason, all of the old grease must be removed off of the clamp and the shaft. Both the intermediate steering shaft clamp and intermediate steering shaft clamp upper bolt must be replaced with new parts only. After all parts have been installed and all fasteners have been tightened to specification, NEW high pressure grease must be applied to the unpainted, serrated area of the intermediate steering shaft. If the old grease is not removed completely or the NEW high pressure grease is not applied before all fasteners are tightened to specification, a false reading can occur.

1. With the steering wheel in the straight ahead position, LOCK the steering column.
2. Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle.
3. Remove the front tire and wheel assemblies. Refer to Tire and Wheel Removal and Installation.
4. Remove the driver's side engine lower front splash shield. Refer to Engine Lower Front Splash Shield Replacement.
5. If equipped with 4WD and LHD, remove the front differential carrier assembly. Refer to Differential Carrier Assembly Replacement.

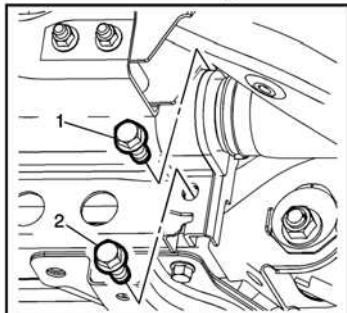
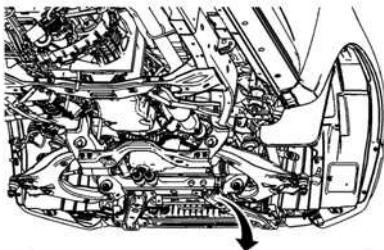


6. Place match marks on the following parts:

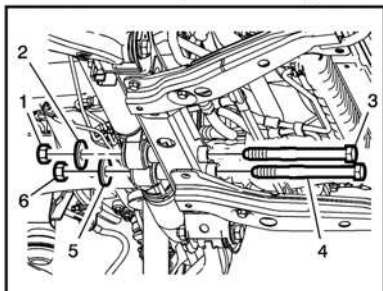
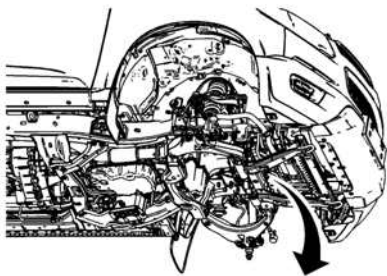
- The intermediate steering shaft (3)
- The intermediate steering shaft clamp (4)
- The lower steering shaft (5)
- Disconnect the intermediate steering shaft clamp from the lower steering shaft. Refer to Intermediate Steering Shaft Replacement.



- Place match marks on the lower steering shaft (2) and steering gear pinion shaft (3).
- Remove the intermediate steering shaft lower bolt (1).
- Disconnect the lower steering shaft from the steering gear pinion shaft.

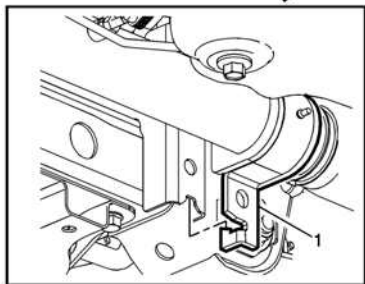
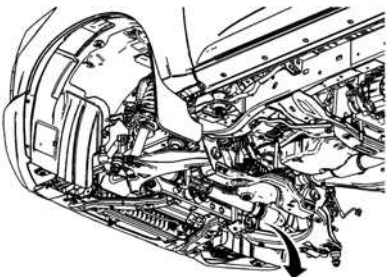


- Remove the 2 steering gear bolts (1, 2) from the passenger's side of the steering gear.

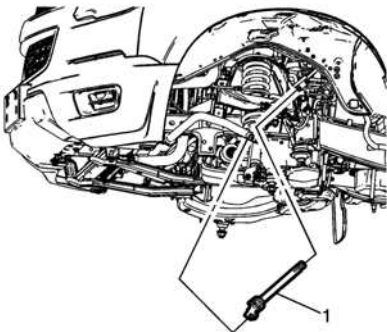


- Remove the following components from the driver's side of the steering gear:

1. The 2 steering gear nuts (1, 6)
2. The 2 steering gear washers (2, 5)
3. The 2 steering gear bolts (3, 4)



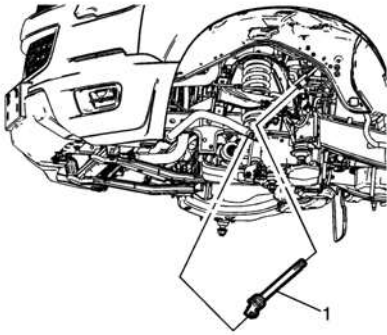
- Disconnect the steering gear bracket hook (1) from the bracket.
- Lower the steering gear in order to gain access to the lower steering shaft.



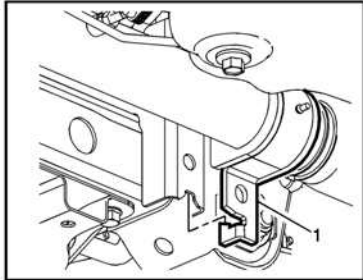
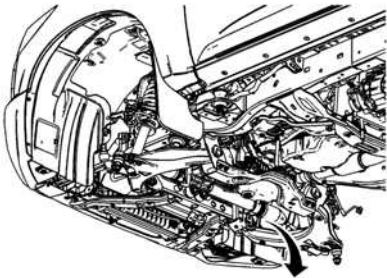
- Remove the lower steering shaft (1) from the vehicle.

Installation Procedure

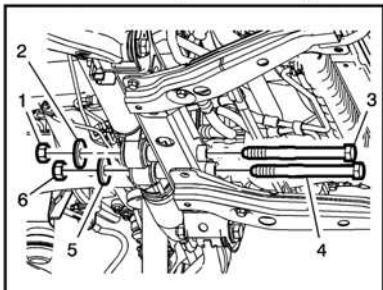
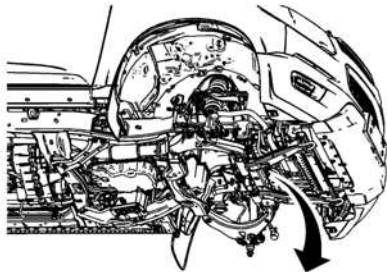
1. If you are replacing the intermediate steering shaft, copy the match marks from the old parts to the new parts.



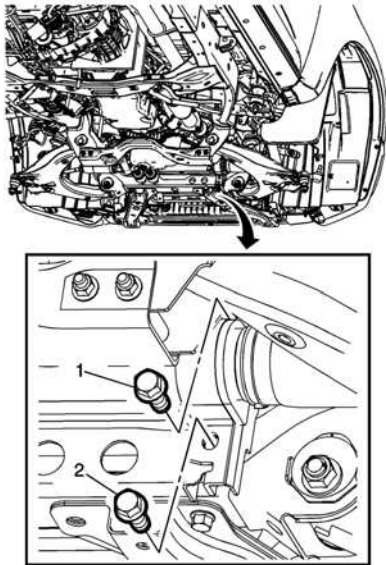
2. Position the lower steering shaft (1) in the vehicle.



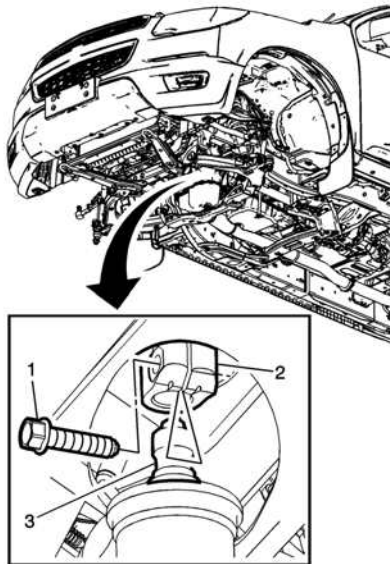
3. Connect the steering gear bracket hook (1) to the bracket.



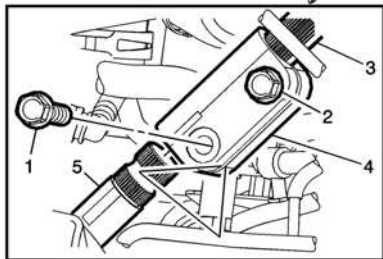
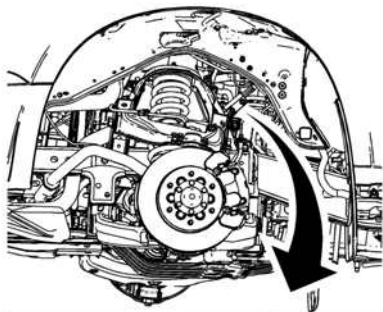
4. Install the fasteners (1, 2, 3, 4, 5, 6) to the driver's side of the vehicle. Refer to Steering Gear Replacement.



5. Install the 2 steering gear bolts to the passenger's side of the vehicle. Refer to Steering Gear Replacement.



6. Align the match marks and connect the lower steering shaft (2) to the steering gear pinion shaft (3).
- Caution:** Refer to Fastener Caution.
7. Install the intermediate steering shaft lower bolt (1) and tighten to **31 Y (23 lb ft)**.



8. Align the match marks and connect the intermediate steering shaft clamp (4) to the lower steering shaft (5).
9. Install the intermediate steering shaft clamp bolts. Refer to Intermediate Steering Shaft Replacement.
10. If equipped with 4WD and LHD, install the front differential carrier assembly. Refer to Differential Carrier Assembly Replacement.
11. Install the driver's side engine lower front splash shield. Refer to Engine Lower Front Splash Shield Replacement.
12. Install the front tire and wheel assemblies. Refer to Tire and Wheel Removal and Installation.

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Removal Procedure

Caution: With wheels of the vehicle facing straight ahead, secure the steering wheel utilizing steering column anti-rotation pin, steering column lock strap to prevent rotation. Locking of the steering column will prevent damage and a possible malfunction of the SIR system. The steering column must be secured in position before disconnecting the following components:

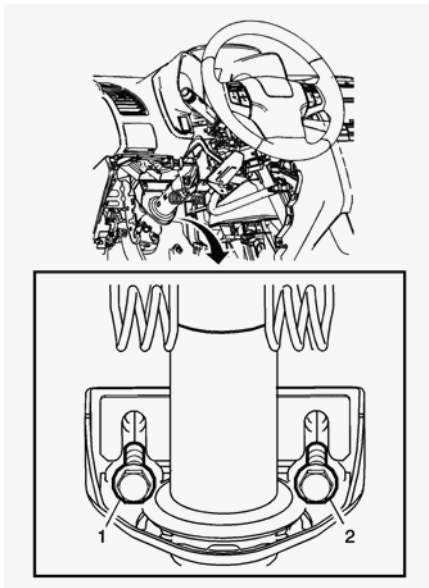
- The steering column
- The intermediate shaft(s)
- The steering gear

After disconnecting these components, do not rotate the steering wheel or move the front tires and wheels. Failure to follow this procedure will cause the SIR coil assembly to become un-centered and cause possible damage to the SIR coil. If you think the SIR coil has become un-centered, refer to your specific SIR coil's centering procedure to re-center SIR Coil.

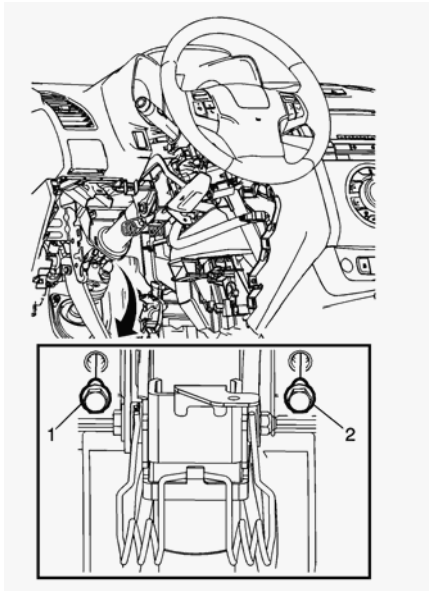
1. With the steering wheel in the straight ahead position, LOCK the steering column.
2. Remove the steering column trim covers. Refer to Steering Column Trim Cover Replacement.
3. Remove the driver's side instrument lower panel. Refer to Instrument Lower Panel Replacement.
4. Disconnect any electrical connectors as necessary.
5. Place match marks on the intermediate steering shaft and steering column shaft.
6. Disconnect the intermediate steering shaft from the steering column shaft. Refer to Intermediate Steering Shaft Replacement.

Caution: Do not support the steering column by only the lower or upper support bracket. Damage to the column lower bearing adapter could occur.

7. Support the steering column.



8. Remove the 2 lower steering column bolts (1, 2).



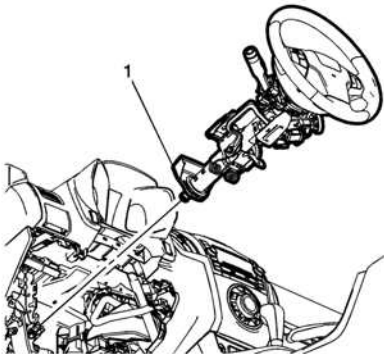
9. Remove the 2 upper steering column bolts (1, 2).

Caution: Once the steering column is removed from the vehicle, the column is extremely susceptible to damage. Dropping the column end could collapse the steering shaft or loosen the plastic injections, which maintain column rigidity. Leaning on the column assembly or jacket to bend or deform. Any of the above damage could impair the columns collapsible design. Do NOT hammer on the end of the shaft. Hammering could loosen the plastic injections, which maintain column rigidity. If you need to remove the steering wheel, refer to the Steering Wheel Replacement procedure in this section.

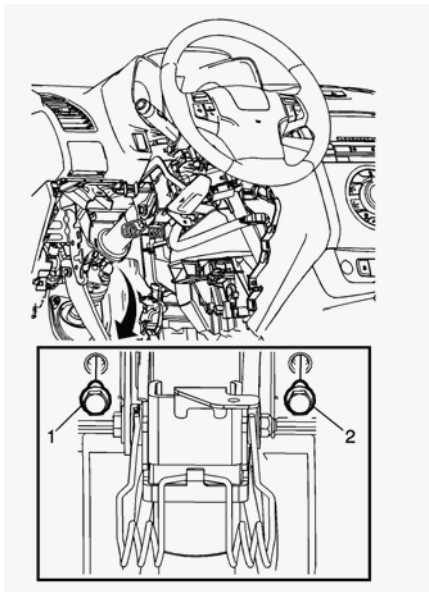
10. Remove the steering column assembly (1) from the vehicle.
11. Transfer components as necessary.

Installation Procedure

1. If you are replacing the steering column or the intermediate steering shaft, copy the match marks from the old parts to the new parts.



2. Position the steering column assembly (1) in the vehicle.

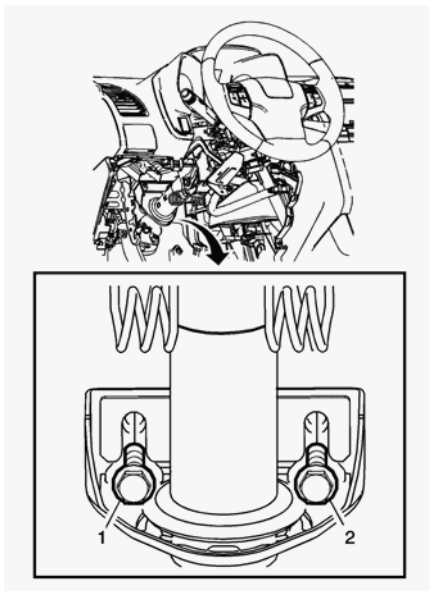


Warning: In order to ensure the intended function of the steering column in a vehicle during a crash and in order to avoid personal injury perform the following:

- Tighten the steering column lower fasteners before you tighten the steering column upper fasteners. Failure to do this can damage the steering column.
- Tighten the steering column fasteners to the specified torque. Overtightening the upper steering column fasteners could affect the steering column collapse.

Caution: Ensure all fasteners are securely seated before applying needed torque. Failure to do so may result in component damage or steering column.

3. Install, but do not tighten, the 2 upper steering column bolts (1, 2).



Caution: Refer to Fastener Caution.

4. Install the 2 lower steering column bolts (1, 2) and tighten to **22 Y (16 lb ft)**.
5. Tighten the 2 upper steering column bolts to **22 Y (16 lb ft)**.
6. Align the match marks and connect the intermediate steering shaft to the steering column shaft. Refer to Intermediate Steering Shaft
7. Connect any electrical connectors as necessary.
8. Install the driver's side instrument lower panel. Refer to Instrument Lower Panel Replacement.
9. Install the steering column trim covers. Refer to Steering Column Trim Cover Replacement.

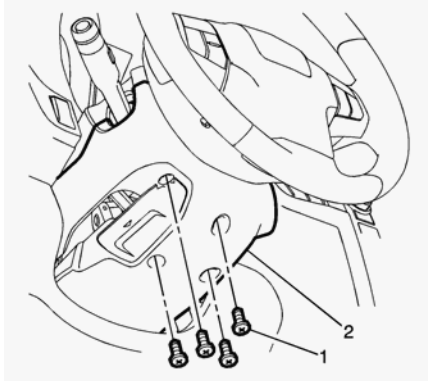
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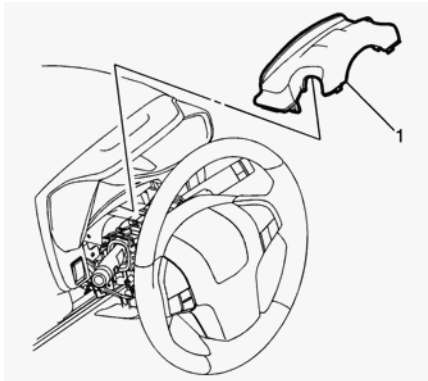
Fuel Delivery: | Fuel:

Removal Procedure

1. Tilt and telescope the steering column to the lowest and the most rearward position.



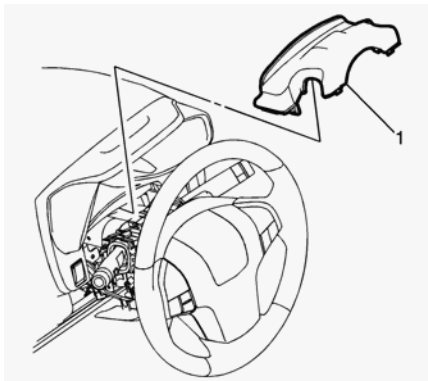
2. Remove the 4 steering column trim cover bolts (1) from the steering column lower trim cover (2).



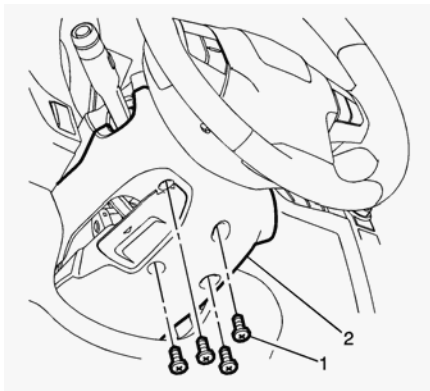
3. Disengage the steering column upper trim cover (1) from the steering column lower trim cover.
4. Remove the steering column upper trim cover from the steering column.
5. Maneuver the steering column lower trim cover around the tilt lever in order to remove the cover from the steering column.

Installation Procedure

1. Maneuver the steering column lower trim cover around the tilt lever and position the cover on the steering column.



2. Position the steering column upper trim cover (1) on the steering column.
3. Engage the steering column upper trim cover to the steering column lower trim cover.



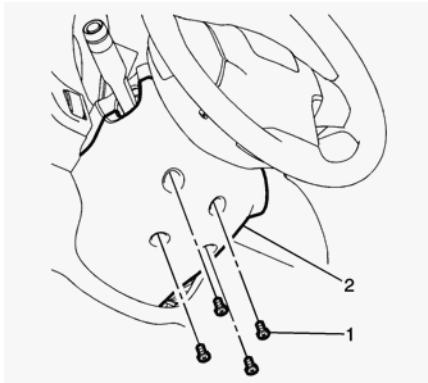
Caution: Refer to Fastener Caution.

4. Install the 4 steering column trim cover bolts (1) to the steering column lower trim cover (2).

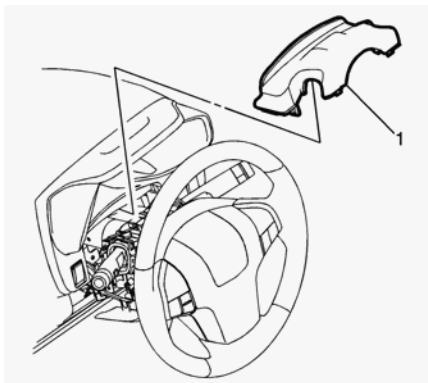
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Removal Procedure

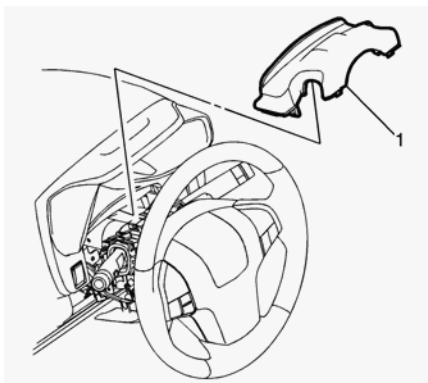


1. Remove the 4 steering column trim cover bolts (1) from the steering column lower trim cover (2).

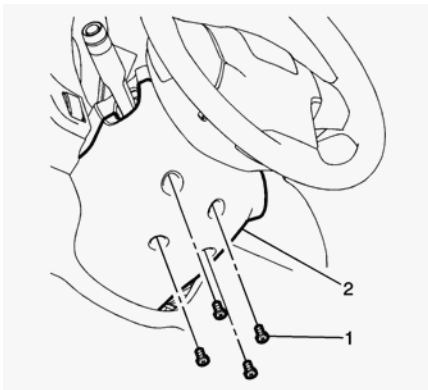


2. Disengage the steering column upper trim cover (1) from the steering column lower trim cover.
3. Remove the steering column upper trim cover from the steering column.

Installation Procedure



1. Position the steering column upper trim cover (1) on the steering column.
2. Engage the steering column upper trim cover to the steering column lower trim cover.

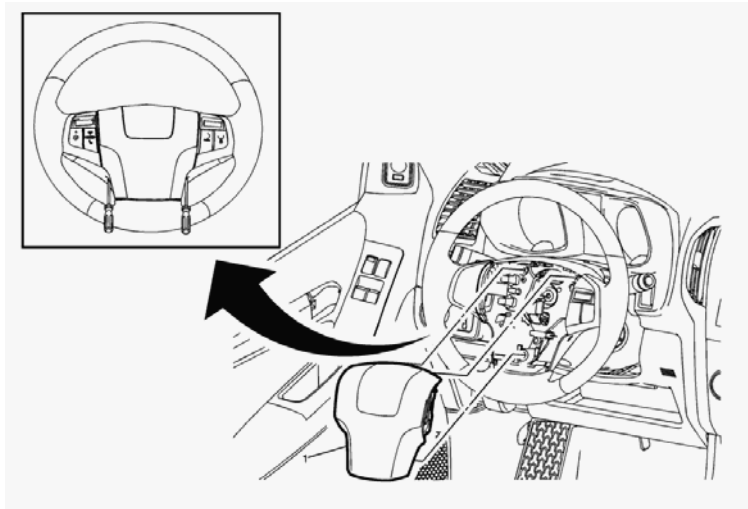


Caution: Refer to Fastener Caution.

3. Install the 4 steering column trim cover bolts (1) to the steering column lower trim cover (2).

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Steering Wheel Horn Cap Replacement

Callout

Component Name

Steering Wheel Horn Cap

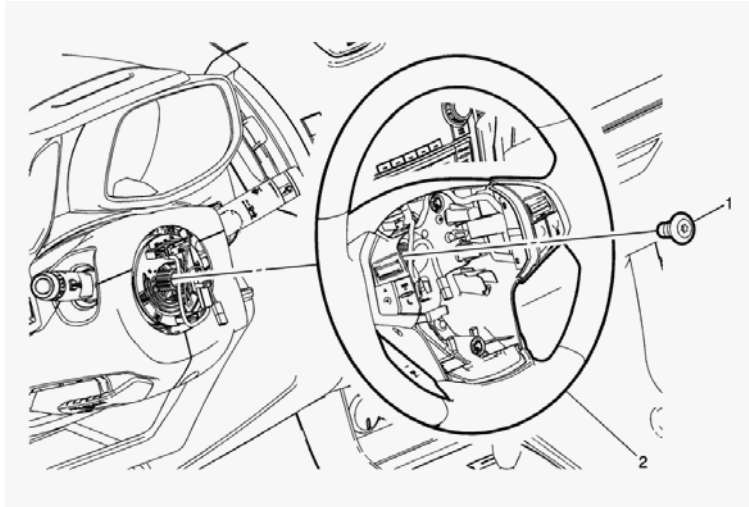
Procedure

1

1. Using a blunt ended tool, push the spring fastener inward through the access hole located on the side of the steering wheel by pulling the tool outwards.
2. Keeping the tool inserted, repeat the step for the other opening.
3. Disconnect the electrical connectors.

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Steering Wheel Replacement

Callout

Component Name

Preliminary Procedure

1. If equipped with AK5, remove the steering wheel airbag. Refer to Steering Wheel Airbag Replacement.
2. If not equipped with AK5, remove the steering wheel horn cap. Refer to Steering Wheel Horn Cap Replacement.
3. If necessary, place match marks on the steering wheel and steering column shaft.

Steering Wheel Bolt

Caution: Refer to Fastener Caution.

1

Tighten

35 Y (26 lb ft)

Steering Wheel

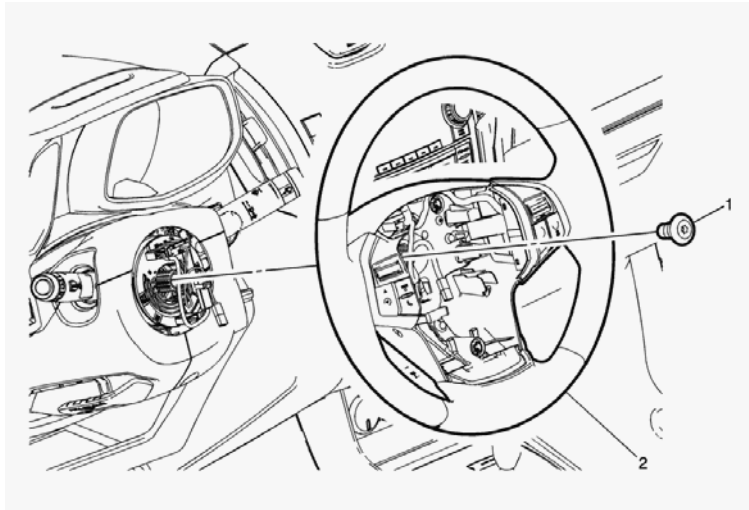
Procedure

2

1. Disconnect any electrical connectors as necessary.
2. Loosen the steering wheel bolt until 2 to 3 threads are left engaged.
3. Wiggle the steering wheel until the steering wheel disengages completely.
4. Remove the steering wheel bolt.
5. Remove the steering wheel.
6. Copy the match marks from the old steering wheel to the new steering wheel.
7. Transfer any components as necessary.

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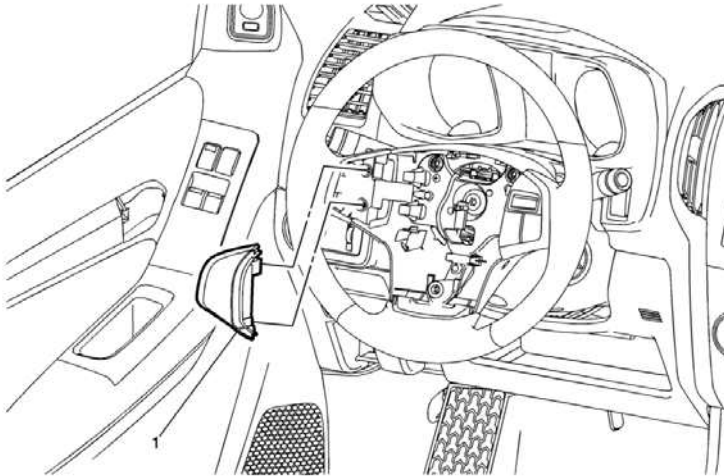


Steering Wheel Replacement

Callout	Component Name
Preliminary Procedure	
1. If equipped with AK5, remove the steering wheel inflatable restraint module. Refer to Steering Wheel Airbag Replacement. 2. If not equipped with AK5, remove the steering wheel horn cap. Refer to Steering Wheel Horn Cap Replacement. 3. If necessary, place match marks on the steering wheel and steering column shaft.	
	Steering Wheel Bolt
1	Caution: Refer to Fastener Caution.
	Tighten
	35 Y (26 lb ft)
	Steering Wheel
	Procedure
2	1. Disconnect any electrical connectors as necessary. 2. Loosen the steering wheel bolt until 2 to 3 threads are left engaged. 3. Wiggle the steering wheel until the steering wheel disengages completely. 4. Remove the steering wheel bolt. 5. Remove the steering wheel. 6. Copy the match marks from the old steering wheel to the new steering wheel. 7. Transfer any components as necessary.

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Steering Wheel Spoke Cover Replacement

Callout

Component Name

Preliminary Procedure

Remove the steering wheel airbag. Refer to Steering Wheel Airbag Replacement.

Steering Wheel Spoke Cover

1

Procedure

Using the appropriate tool, separate the cover from the steering wheel.

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The steering wheel and column have the following 4 primary functions:

- Vehicle steering
- Vehicle security
- Driver convenience
- Driver safety

Vehicle Steering

The steering wheel is the first link between the driver and the vehicle. The steering wheel is fastened to a steering shaft within the steering column. At the lower end of the steering column, the intermediate steering shaft connects the steering column to the steering gear.

Vehicle Security

The steering wheel and column may have theft deterrent components mounted and designed into the steering column.

Driver Convenience

The steering wheel and column may have driver controls attached for convenience and comfort.

Driver Safety

The steering column has safety features to protect the driver.

Energy-Absorbing Steering Column

The energy-absorbing steering column compresses in the event of a front-end collision, which reduces the chance of injury to the driver. The energy-absorbing feature, collapsible steering shaft, and break away mounting features help reduce the injury in the event of an accident.

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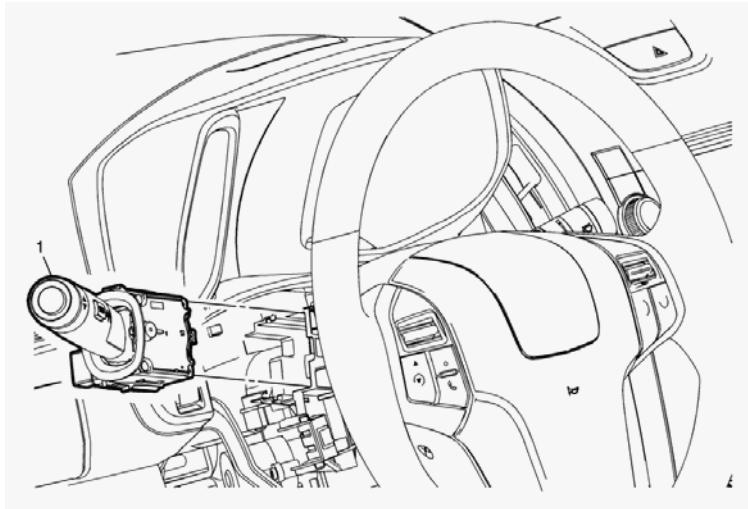
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Caution: Do not hold the steering wheel in the full turn position longer than 5 seconds, as damage to the steering pump may result.

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Turn Signal Multifunction Switch Replacement

Callout

Component Name

Preliminary Procedure

Remove the steering column trim covers. Refer to Steering Column Trim Cover Replacement.

Turn Signal Multifunction Switch

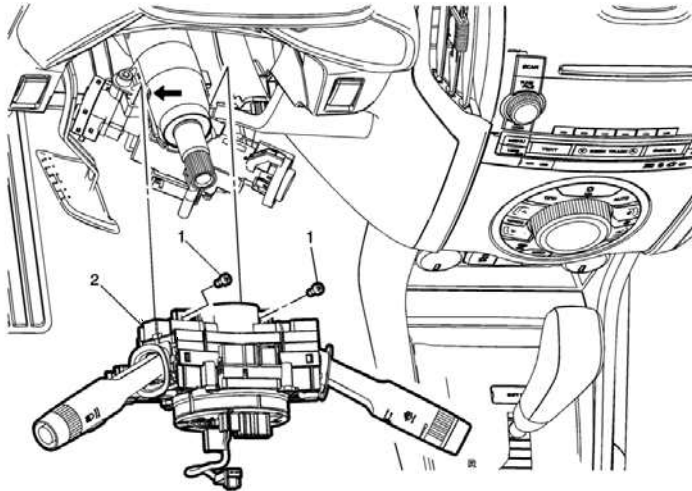
Procedure

1

1. Disconnect any electrical connectors as necessary.
2. Release the plastic retaining tabs and remove the turn signal multifunction switch from the turn signal switch bracket

2013 Chevrolet Colorado

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



Turn Signal Switch Bracket Replacement

Callout

Component Name

Preliminary Procedure

Remove the steering wheel. Refer to Steering Wheel Replacement.

1

Turn Signal Switch Bracket Fastener (Qty: 2)

Caution: Refer to Fastener Caution.

Turn Signal Switch Bracket

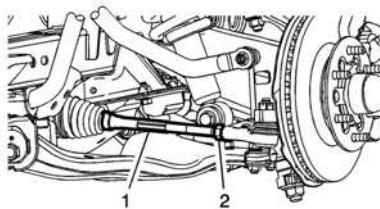
Procedure

2

1. Disconnect any electrical connectors as necessary.
2. Release the plastic retaining tabs and remove the turn signal switch bracket from the steering column.
3. Transfer any components as necessary.

2013 Chevrolet Colorado

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1. Loosen the tie rod nut (2).
2. Rotate the tie rod (1) the required toe specification setting. Refer to Wheel Alignment Measurement.

Caution: Refer to Fastener Caution.

3. Tighten the jam nut on the tie rod to **70 Y (52 lb ft)**.
4. Check the toe setting after tightening.
5. Re-adjust the toe setting if necessary.