

2013 Chevrolet Colorado

Submodel: | Engine Type: | Liters:

Fuel Delivery: | Fuel:



Air Inlet Grille Panel Extension Replacement

Callout

Component Name

Air Inlet Grille Panel Extension

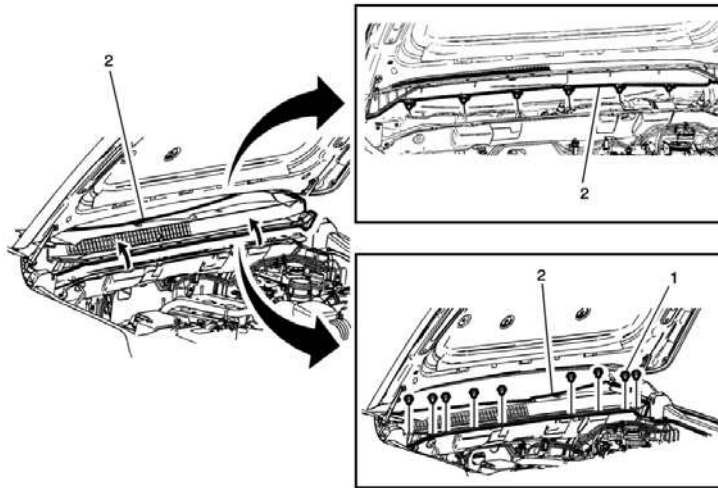
1

Procedure

Grasp the grille panel extension and disengage the retainers from the rear edge of the fender and edge of the air inlet panel.

2013 Chevrolet Colorado

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



Air Inlet Grille Panel Replacement

Callout	Component Name
Preliminary Procedure	

1. Remove the wiper arms. Refer to Windshield Wiper Arm Replacement.
2. Remove the hood rear seal. Refer to Hood Rear Seal Replacement.

1 Air Inlet Grille Panel front Push-In Retainer (Qty: 12)

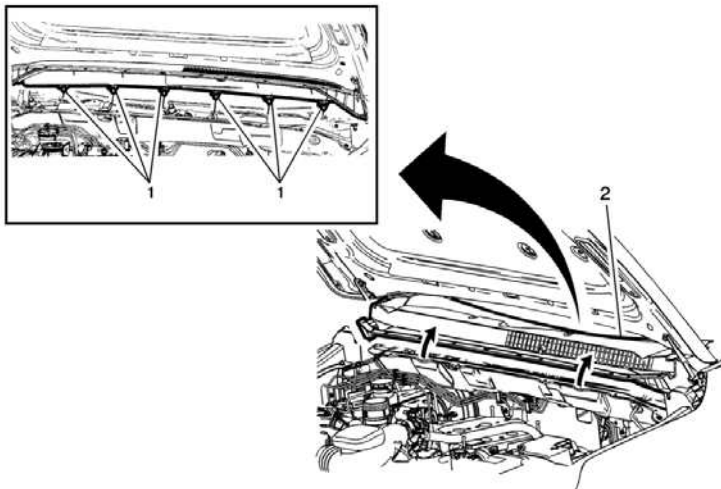
Air Inlet Grille Panel

Procedure

- 2
 1. Disconnect the windshield washer hose.
 2. Lift up the front edge of the air inlet grille panel.
 3. Use a suitable plastic tool to release the air inlet grille panel retainers.
 4. Transfer parts as needed.

2013 Chevrolet Colorado

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



Air Inlet Grille Panel Replacement

Callout

Component Name

Preliminary Procedure

1. Remove the wiper arms. Refer to Windshield Wiper Arm Replacement.
2. Remove the air inlet grille panel extension. Refer to Air Inlet Grille Panel Extension Replacement.
3. Remove the hood rear seal. Refer to Hood Rear Seal Replacement.

Air Inlet Grille Panel front Push-In Retainer (Qty: 6)

1

Procedure

Use a suitable plastic tool to release the air inlet grille panel retainers.

Air Inlet Grille Panel

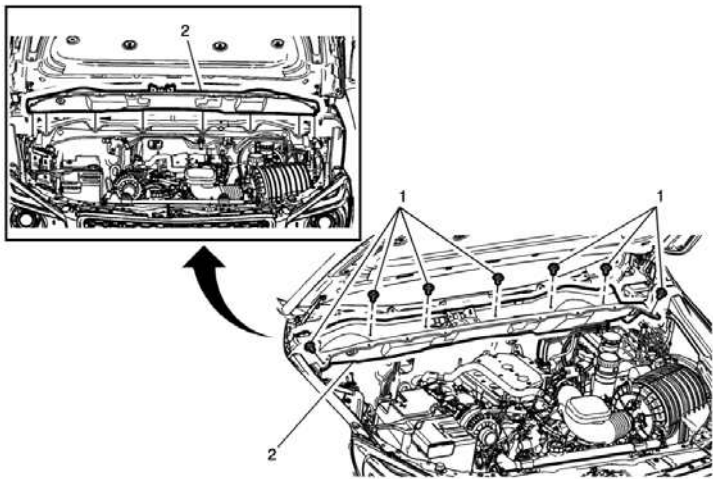
Procedure

2

1. Disconnect the windshield washer hose.
2. Lift up the front edge of the air inlet grille panel.
3. Transfer parts as needed.

2013 Chevrolet Colorado

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



Cowl Front Panel Replacement

Callout	Component Name
Preliminary Procedures	

1. Remove the windshield wiper transmission. Refer to Windshield Wiper Transmission Replacement.
2. Remove the hood rear corner seals. Refer to Hood Rear Corner Seal Replacement.

Cowl Front Panel Bolt (Qty: 7)

Caution: Refer to Fastener Caution.

Procedure

1. Disconnect the windshield washer hose from the cowl front panel.

Tighten

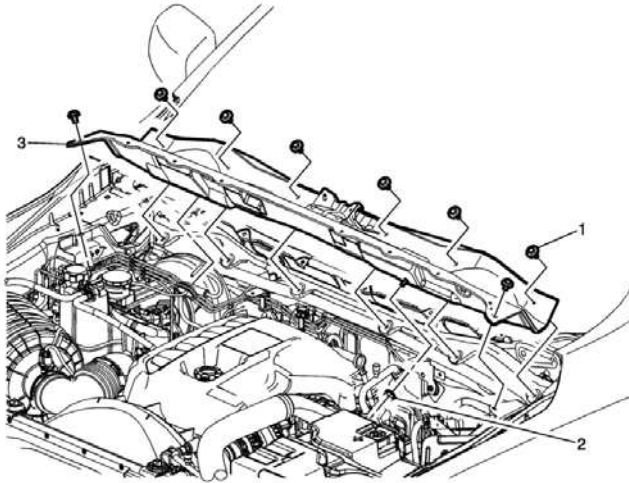
9 Y (80 lb in)

Cowl Front Panel

2. **Procedure**
Ensure all seals are in place before installation of the cowl front panel.

2013 Chevrolet Colorado

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

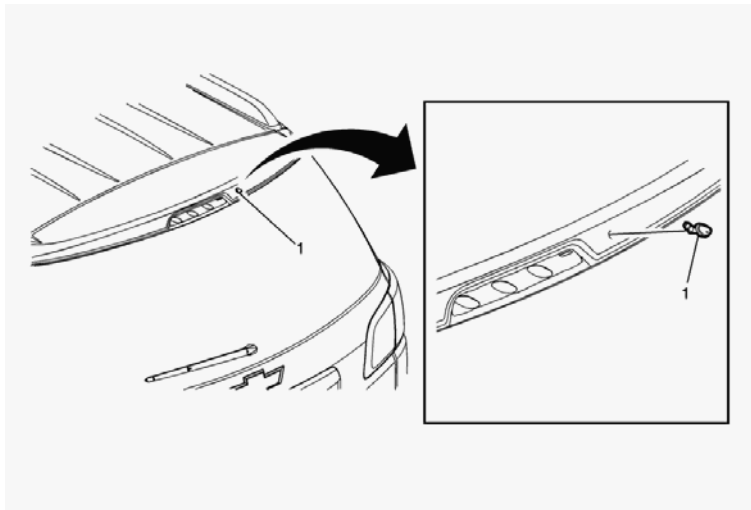


Cowl Front Panel Replacement

Callout	Component Name
Preliminary Procedures	
1.	Remove the windshield wiper transmission. Refer to Windshield Wiper Transmission Replacement.
2.	Remove the hood rear corner seals. Refer to Hood Rear Corner Seal Replacement.
	Cowl Front Panel Bolt (Qty: 8)
1	Caution: Refer to Fastener Caution.
	Tighten
	9 Y (80 lb in)
	Air Conditioning Compressor Hose Clip Nut
2	Procedure
	Remove the air conditioning compressor hose clip nut from the cowl front panel stud. Refer to Fastener Tightening Specificati
	Cowl Front Panel
	Procedure
3	1. Disconnect the windshield washer hose from the cowl front panel.
	2. Disconnect the engine wiring harness grommet from the cowl front panel.
	3. Ensure all seals are in place before installation of the cowl front panel.

2013 Chevrolet Colorado

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



Rear Window Washer Nozzle Replacement

Callout

Component Name

Preliminary Procedure

Remove the high mount stop lamp. Refer to High Mount Stop Lamp Replacement.

Rear Window Washer Nozzle

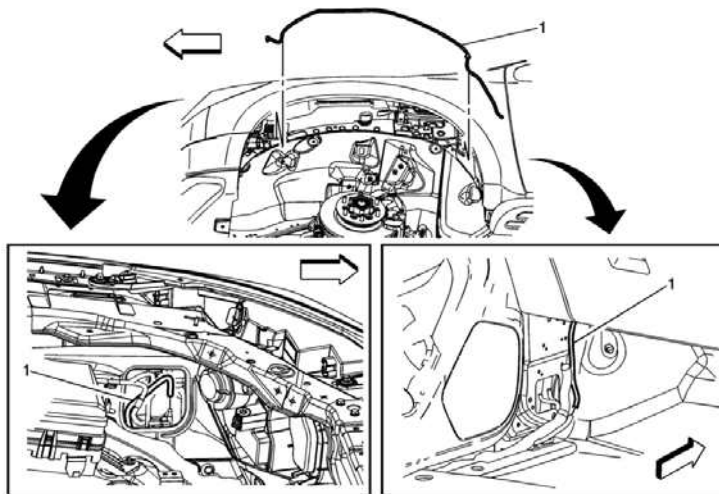
Procedure

1

1. Access the rear window washer nozzle hose through the high mount stop lamp hole and disconnect from the rear window washer nozzle spout.
2. Using a suitable tool depress the two tabs and remove the rear washer nozzle from the liftgate.

2013 Chevrolet Colorado

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



Rear Window Washer Solvent Container Hose Replacement

Callout

Component Name

Preliminary Procedures

1. Remove the front wheelhouse liner. Refer to Front Wheelhouse Liner Replacement.
2. Remove the body hinge pillar trim. Refer to Body Hinge Pillar Trim Replacement.
3. Open and support the hood.

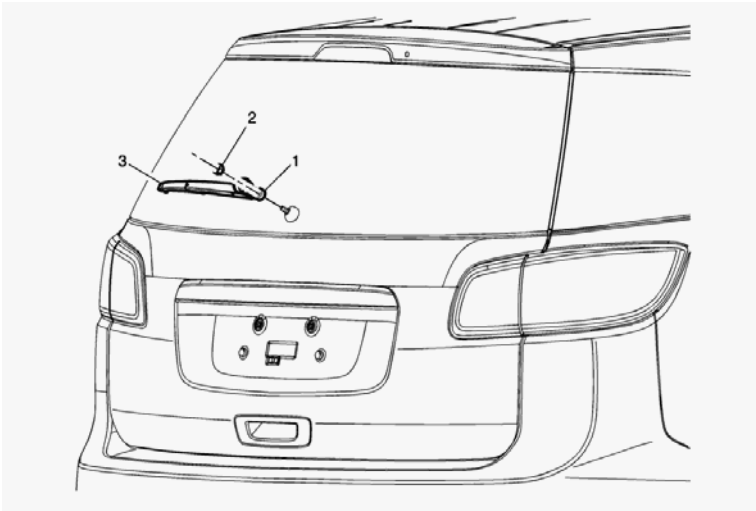
Rear Window Washer Solvent Container Hose

Procedure

1. From engine compartment disconnect rear window washer solvent container hose from windshield washer pump.
2. From inside the vehicle disconnect rear window washer solvent container hose from the hose and electrical harness assembly.
3. Remove the rear window washer solvent container hose grommet from the side panel inner lower reinforcement.
4. Remove rear window washer solvent container hose from vehicle.

2013 Chevrolet Colorado

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



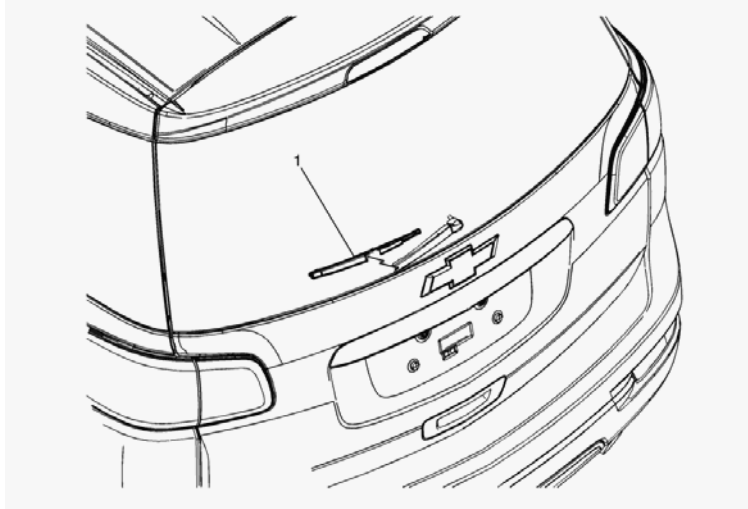
Rear Window Wiper Arm Replacement

Callout	Component Name
1	Rear Window Wiper Arm Finish Cap Note: Release and pivot the cap from the rear wiper arm.
2	Rear Window Wiper Arm Nut Caution: Refer to Fastener Caution. Tighten 9 Y (80 lb in) Rear Window Wiper Arm
3	Procedure 1. Using the rod puller remove the rear wiper arm from the pivot shaft. 2. Use a soft wire brush to clean the knurls on the rear wiper motor pivot shaft. 3. Ensure the rear window wiper motor is in the PARK position. 4. Electrically PARK, the rear window wiper motor pivot shaft. 5. Install the rear window wiper arm. 6. Position the tip of the wiper blade between the lines in the rear window blackout area. 7. Hold the arm into position while securing the nut. 8. Perform a wet-wipe and re-check the wiper blade alignment position.

2013 Chevrolet Colorado

Submodel: | Engine Type: | Liters:

Fuel Delivery: | Fuel:



Rear Window Wiper Blade Replacement

Callout

Rear Window Wiper Blade

Component Name

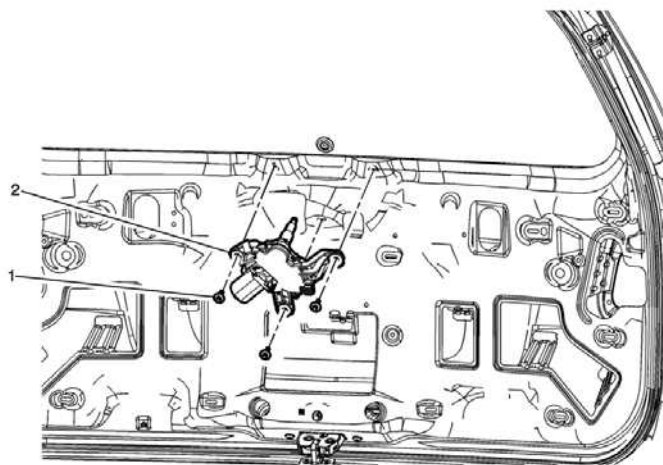
Procedure

1

1. Lift the rear window wiper arm OFF the rear window.
2. Depress the small square box at the end of the wiper arm.
3. Slide the rear window wiper arm blade away from the wiper motor pivot shaft.
4. Carefully place the rear window wiper arm on the rear window.
5. Slide the NEW rear window wiper blade into the wiper arm and a audible click is heard when secure.

2013 Chevrolet Colorado

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



Rear Window Wiper Motor Replacement

Callout Preliminary Procedures

Component Name

1. Remove the rear window wiper arm. Refer to Rear Window Wiper Arm Replacement.
2. Remove the rear liftgate lower trim finish panel. Refer to Liftgate Lower Trim Finish Panel Replacement.

Rear Window Wiper Motor Bolt (Qty: 3)

1

Caution: Refer to Fastener Caution.

Tighten

3.5 Y (31 lb in)

Rear Window Wiper Motor

Procedure

2

1. Disconnect the electrical connector from the rear wiper motor.
2. Slightly pull the rear window wiper motor from the rear window wiper motor grommet.
3. Remove the rear window wiper motor from the vehicle.
4. Check the wiper motor grommets, if dry, replace the grommets with new ones.

2013 Chevrolet Colorado

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

Wiper/Washer System Components

The wiper/washer system consists of the following electrical components:

- Windshield Wiper Relay
- Windshield Wiper Speed Control Relay
- Windshield Washer Pump Relay
- Windshield Washer Pump
- Windshield Wiper Motor
- Windshield Wiper/Washer Switch
- Windshield Wiper Motor Fuse
- Windshield Washer Pump Fuse
- Body Control Module (BCM)
- Rear Wiper Motor
- Rear Wiper Motor Fuse
- Rear Wiper Relay
- Rear Washer Pump Relay
- Rear Washer Pump Fuse

Windshield Wiper System

The body control module (BCM) determines the front wiper/wash system mode of operation by monitoring several signals from the Windshield Wiper/Washer Switch as indicated in the wiper switch.

The Windshield Wiper/Washer Switch receives a reference ground signal from the BCM. Each input of the BCM provides a switched battery-powered wiper/washer switch output signal it receives. All the BCM inputs are recognized as active when the wiper switch provides a path to the reference ground. The first signal received by the BCM is the result of 6 resistors in the front wiper switch configured as a resistor ladder network. This signal is a BCM analog to digital input. Depending on the function selected (High, Low, Intermittent 1 thru 5, Mist, Off), the Windshield Wiper/Washer Switch routes a different set of resistors into the circuit resulting in different voltages appearing on the BCM A/D input. By monitoring this voltage, the BCM determines how to control the wiper motor On/Off Relay. It should be noted that High, Low, and Mist all have the same value on this signal circuit. The second signal received by the BCM is from the front wiper switch is active only when the front wiper switch is in the high speed wiper position. When the wiper switch is not in the high speed position, the switch is open and the signal circuit is pulled to battery by the BCM. When the wiper switch is in the high speed position, the switch pulls the circuit low. The BCM determines how to control the Wiper high/low speed relay from this input. The third signal received from the front wiper switch is from the windshield wash control switch. When the washer switch is not active the switch is open and the signal circuit is pulled to battery by the BCM. When the washer switch is active, the switch pulls the circuit low. The BCM controls the windshield wash and windshield wash activated wiper operation based on the washer switch input.

The BCM controls Windshield Wiper Motor operation through two output signals and the monitoring of one input signal. The two outputs (one high side drive) are used to control two external wiper motor relays: Windshield Wiper Motor on/off relay: which provides the wiper motor with battery power. Wiper high/low speed relay: when activated by a low side drive signal (ground) from the BCM, it switches the power supplied by the wiper motor relay to the motors high speed input. When left deactivated, the normally closed contacts connect the power supplied by the wiper motors on/off relay to the motors low speed input. The input used by the BCM is from the park switch located in the wiper motor assembly. When the wiper blades are in the park position, the wiper park switch is open and the circuit is pulled up to battery by the BCM. When the wiper blades are in the park position at the windshield, the wiper park switch closes to ground pulling the park signal circuit low.

To initiate low speed operation, the BCM only energizes the front Windshield Wiper Motor on/off relay. This allows battery voltage from the wiper motor to be applied through the switched contacts of the wiper motor on/off relay, through the normally closed contacts of the wiper high/low speed relay, to the control circuit of the windshield wiper motor.

Redundant high speed switch pass through. The BCM provides redundant circuitry which places battery power on its wiper motor on/off relay on activation of its low assertion high speed wiper switch input. The BCM shall be capable of doing this, even if the module has lost all microprocessor power. Redundant circuit shall supply power while in the RUN and CRANK power modes. However, while in the CRANK power mode, the pass through is disabled. If the BCM is NOT in a computer operating properly state.

To initiate high speed operation, the BCM energizes both the Windshield Wiper Motor on/off relay and the wiper high/low speed relay. This allows battery voltage from the wiper fuse to be applied through the switched contacts of the wiper motor on/off relay, through the switched contacts of the wiper high/low speed relay, to the high speed control circuit of the windshield wiper motor.

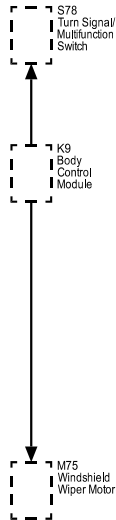
Parking the wiper motor. In order to perform an accurate read of the park switch and to ensure the wipers will come to rest while still in the park position, the wipers only occur while in a low speed wiper mode. This requires that if the wipers are performing a high speed wiper operation at the time required to park, the BCM shall transition the Wipers to low speed by deactivating the wiper high/low relay before attempting to park. In order to do this, the BCM monitors the park circuit until the park switch pulls the park circuit to ground. At this time, the BCM will immediately deactivate the wiper high/low relay. The relay contacts will switch back to their normally closed position and will apply ground to the wiper motor power inputs through the normally closed contacts of the wiper high/low relay. This deactivates and dynamically brakes the wiper motor in the park position. When the wiper switch is turned off position while the wiper motor is somewhere in mid-cycle, the BCM will continue to operate the motor until the wipers reach the park position. If running the wiper motor and does not see a state transition of the park switch after 8 s, the wipers will stop immediately when the wiper switch is turned off. If the ignition is turned OFF while the wipers are in mid-cycle, the wipers will stop immediately, regardless of position. The BCM will park the wipers when the ignition is turned ON.

The windshield wiper system MIST operation is identical to LOW speed operation, except that the MIST switch is a press and release type switch. When the wiper switch is moved to the MIST position and released, low speed wiper motor operation is started and will continue until 1 cycle is complete. When the wiper switch is moved to the MIST position and held, the wiper motor will operate in the LOW speed mode until the switch is released.

Windshield wiper intermittent operation is a low speed wiper motor function with a variable delay interval between the wiper motor cycles. The delay is controlled by the front wiper control switches intermittent 1 through intermittent 5 settings. The wiper operation is as follows:

1. The BCM will initiate a single wipe by activating its windshield wiper ON/OFF relay output.
2. At the completion of a single wipe, the BCM will park the wipers as described above.
3. The BCM will then pause the wipers in their park position for the time duration associated with intermittent delay switch setting.
4. When the delay time expires repeat Steps 1 and 3 until the system is turned off or taken out of intermittent mode. If the wiper switch is longer delay interval to a shorter delay interval, the BCM will command an immediate wipe cycle and reset the delay timer to the short

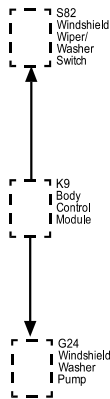
Intermittent wiper operation may be vehicle speed sensitive. When enabled, the speed compensated intermittent feature causes the intermittent intervals to become shorter as a function of increased speed. As vehicle speed is reduced the intervals will become closer to the predetermined



Windshield Washer System

The BCM controls the windshield wash operation and windshield wash activated wiper operation. When the BCM detects the activation of the windshield wash control switch, it activates its washer pump relay drive output which supplies battery power to the coil of the washer pump relay. The relay, which switches battery power to the pump motor. The BCM will also activate continuous low speed windshield wipes as described above. Upon deactivation of the windshield wash control switch, the body control module (BCM) shall deactivate the wash motor and will also park the wiper in its park position unless the drip wipe feature is enabled. On some vehicles the drip wipe feature will be enabled and cause the system to provide continuous wiping of the windshield after the switch has been released and fluid is no longer being applied. The windshield washer switch feature may also have a stuck switch. When enabled, activation of the wash feature shall be limited to 10 seconds.

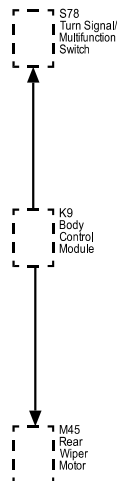
On vehicles with the Rear Wash feature a single reversing wash motor may be utilized for both the front and rear wash operation. In this system the reversing wash motor is operated in one direction to spray fluid on the front windshield and then operated in the reverse direction to spray fluid on the rear window. The reversing wash motor is controlled through two High Side Drive outputs. One controls the Windshield Wiper Motor Relay and one controls the Rear Wipe



Rear Wiper System

On vehicles equipped with a Rear Wiper, the BCM determines the Rear Wipe/Wash System Mode of Operation by monitoring the multiplexed Windshield Wiper/Washer Switch. The Rear Wiper Relay uses a reference ground signal from the BCM. The BCM provides a switched Battery to the Wiper Relay switch output signal it receives. All the BCM inputs are recognized as active when the Rear Wiper Relay switch provides a path to ground signal. The Rear Wiper/Washer signal received by the BCM is the result of 3 resistors in the Windshield Wiper/Washer Switch configured ladder network. This signal is connected to a BCM Analog to Digital Input which also provides a switched Battery pull-up for the circuit. Depending on the selected (Low, Intermittent, Off, Wash), the Rear Wiper Control Switch connects a different set of resistors into the circuit resulting in different voltage levels on the BCM A/D input. By monitoring this voltage, the BCM determines how to control the Rear Wiper Relay and the Rear Washer Relay.

The BCM Controls the single speed Rear Wiper Motor by its Active High output to the external Rear Wiper Relay. When the BCM activates its output, it supplies Battery to the coil of the relay, the relay energizes, allowing Battery voltage from the fuse to be applied through the switched contacts of the Relay to the Rear Wiper Motors control input. The motor then operates continuously at low speed. The BCM does not control the parking of the Rear Wiper. When the BCM deactivates its output, the contacts of the Rear Wiper Relay switch back to ground which will be used by the wiper for its internal park switch and circuitry will sustain motor operation until the wiper arm has returned to its Park position.



Rear Wash

When the Body Control Module detects that the Rear wiper/washer switch has activated the momentary Wash switch, it activates a High Side Relay that supplies Battery to the coil of the Rear Washer Pump Relay. This energizes the Relay, which switches Battery Power to the Washer Pump Motor. The BCM software will attempt to detect a stuck Rear Wash Switch condition if the Rear Wash Motor Relay Output has been continuously active for 10 seconds or more. Upon detecting this condition, the BCM will fail soft the state of the Rear Wash Control to Inactive. This shall cause the System to perform as if the momentary Wash control had been released.

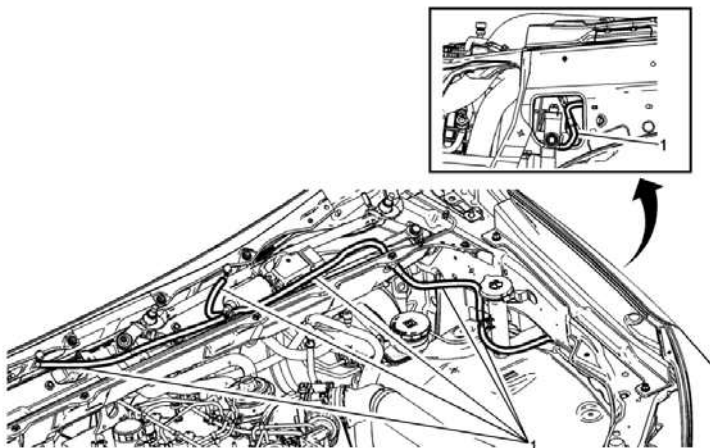
S78
Turn Signal/
Multifunction
Switch

K9
Body
Control
Module

G19
Rear
Window
Washer
Pump

2013 Chevrolet Colorado

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



Windshield Washer Nozzle Hose Replacement

Callout

Component Name

Preliminary Procedures

1. Remove the air inlet grille panel. Refer to Air Inlet Grille Panel Replacement.
2. Disconnect the windshield washer nozzle hose from the windshield washer pump. Refer to Windshield Washer Pump Replacement.

Windshield Washer Nozzle Hose

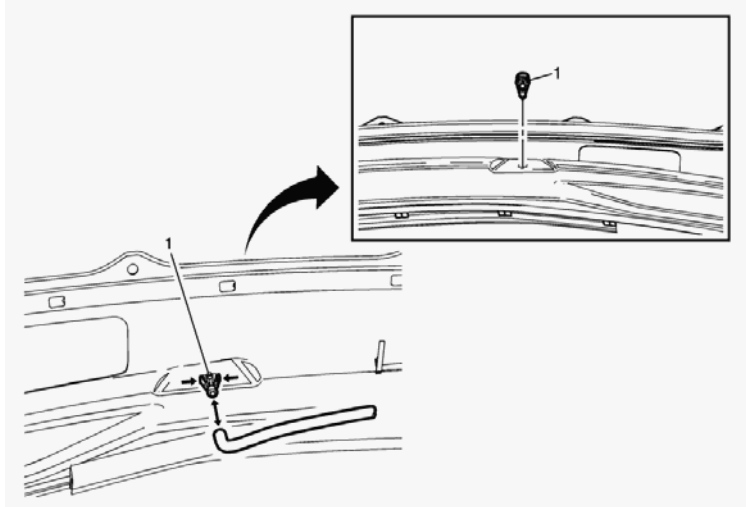
Procedure

1

1. Disconnect the windshield washer nozzle hose grommet from the cowl panel and pull the washer nozzle hose through the hole.
2. Remove the washer nozzle hose from the vehicle.

2013 Chevrolet Colorado

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



Windshield Washer Nozzle Replacement

Callout

Component Name

Preliminary Procedure

Remove the air inlet grille panel. Refer to Air Inlet Grille Panel Replacement.

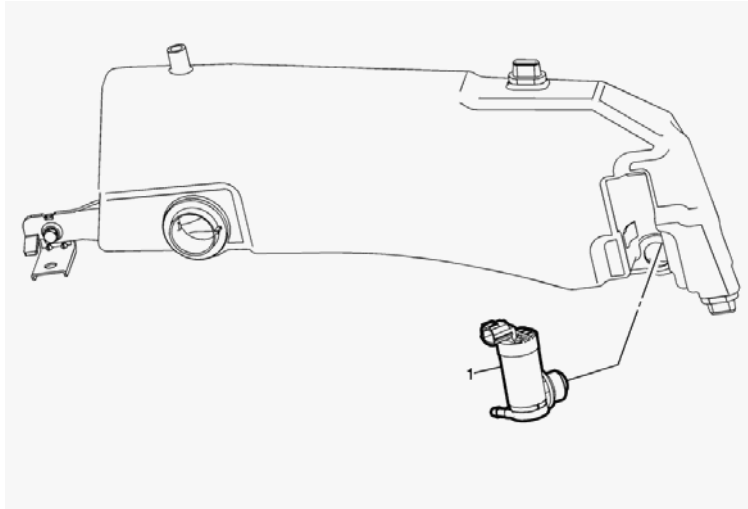
Windshield Washer Nozzle

Procedure

1. Disconnect the windshield washer hose at the washer nozzle being serviced.
2. Compress the locking tabs on the washer nozzle.
3. Push the washer nozzle outward from the air inlet grille panel.
4. Remove the windshield washer nozzle from the air inlet grille panel.

2013 Chevrolet Colorado

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



Windshield Washer Pump Replacement

Callout

Component Name

Preliminary Procedure

Remove the left front wheelhouse liner. Refer to Front Wheelhouse Liner Replacement.

Windshield Washer Pump

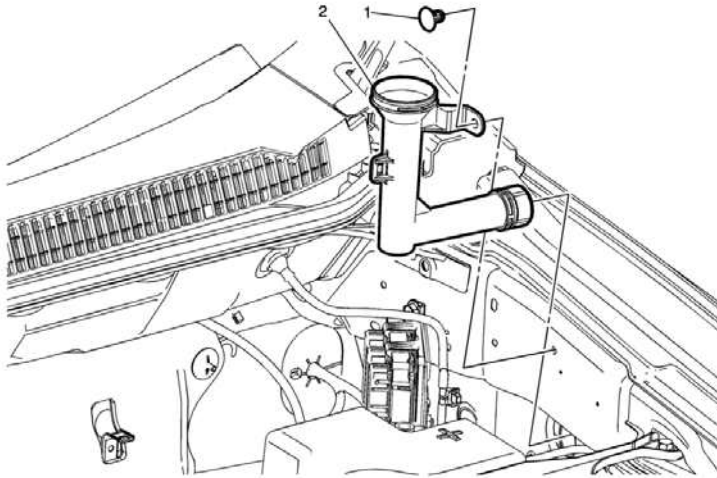
Procedure

1

1. Place a clean suitable drain pan under the windshield washer pump container area to recover the windshield washer solvent when the windshield washer pump is removed.
2. Using 2 flat-bladed tools, place the blades under the windshield washer pump seal on each side of the washer pump.
3. Twist the 2 flat-bladed tools in opposite directions to lift and disengage the washer pump from the windshield washer solvent container.
4. Remove and discard the windshield washer pump seal and replace with NEW.

2013 Chevrolet Colorado

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



Windshield Washer Solvent Container Filler Tube Replacement

Callout

Component Name

Preliminary Procedure

Place a clean suitable container under the left front wheelhouse of the vehicle to contain lost windshield washer solvent when servicing the windshield washer container filler tube.

- 1 Windshield Washer Solvent Container Filler Tube Push-in Retainer

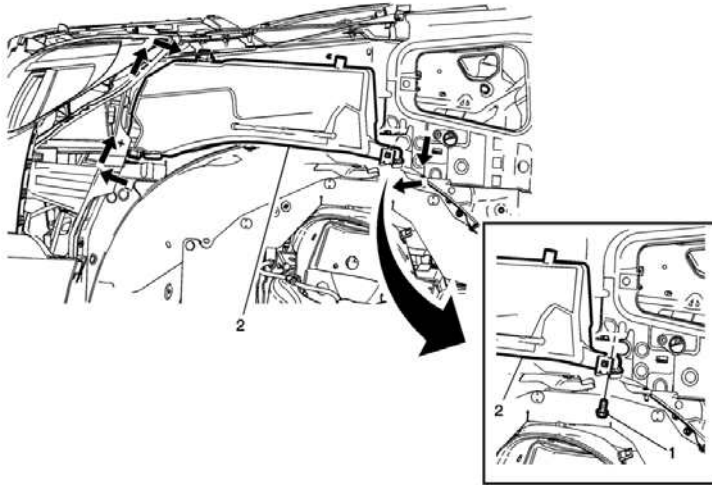
Windshield Washer Solvent Container Filler Tube

Procedure

- 2
1. Disconnect the washer hose from the filler tube.
 2. Turn the windshield washer filler tube counterclockwise and pull to disengage from the washer solvent container.
 3. Upon assembly, use full strength windshield washer solvent fluid on the filler tube neck as a lubricant on the seal for installation into the washer solvent container.
 4. Slowly fill the windshield washer solvent container while inspecting for any leakage at the filler tube neck connection.

2013 Chevrolet Colorado

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



Windshield Washer Solvent Container Replacement

Callout Preliminary Procedures

Component Name

1. Remove the left front wheelhouse liner. Refer to Front Wheelhouse Liner Replacement.
2. Remove the windshield washer solvent container filler tube. Refer to Windshield Washer Solvent Container Filler Tube Replacement.

1 Windshield Washer Solvent Container Bolt

Caution: Refer to Fastener Caution.

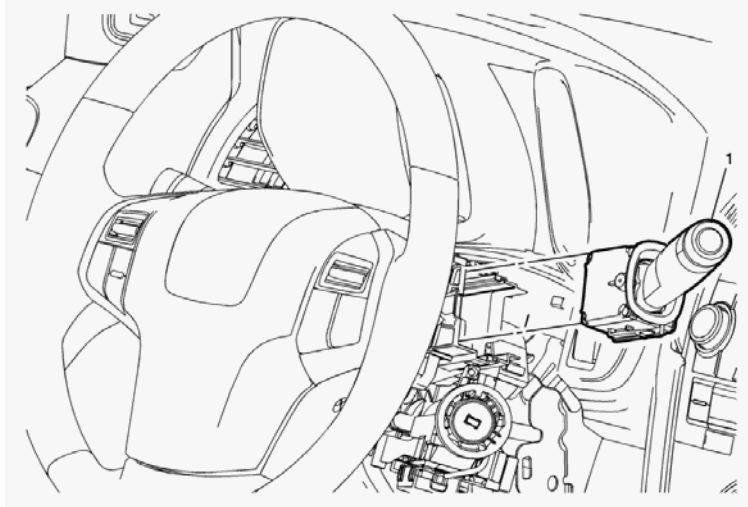
Windshield Washer Solvent Container

Procedure

- 2
 1. Rotate the windshield washer solvent container rearward and downward in order to release the washer container from retainer brackets attached to the side panel.
 2. Disconnect the electrical connector from the washer pump.
 3. Disconnect the windshield washer nozzle hose from the washer pump.
 4. Transfer parts if needed.
 5. Fill the windshield washer solvent container with new washer solvent.
 6. Inspect the windshield washer system for proper operation.

2013 Chevrolet Colorado

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



Windshield Wiper and Washer Switch Replacement

Callout

Component Name

Preliminary Procedure

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

Windshield Wiper and Washer Switch

Procedure

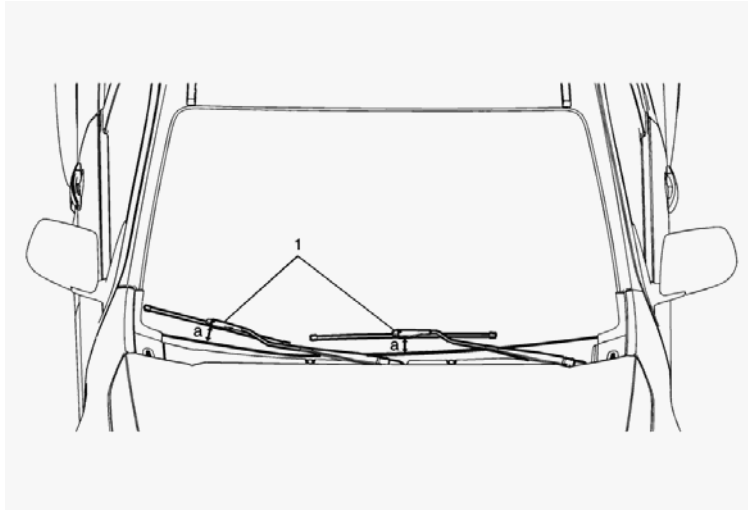
1

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

2013 Chevrolet Colorado

Submodel: | Engine Type: | Liters:

Fuel Delivery: | Fuel:



Windshield Wiper Arm Adjustment

Callout

Component Name

Windshield Wiper Arm

Procedure

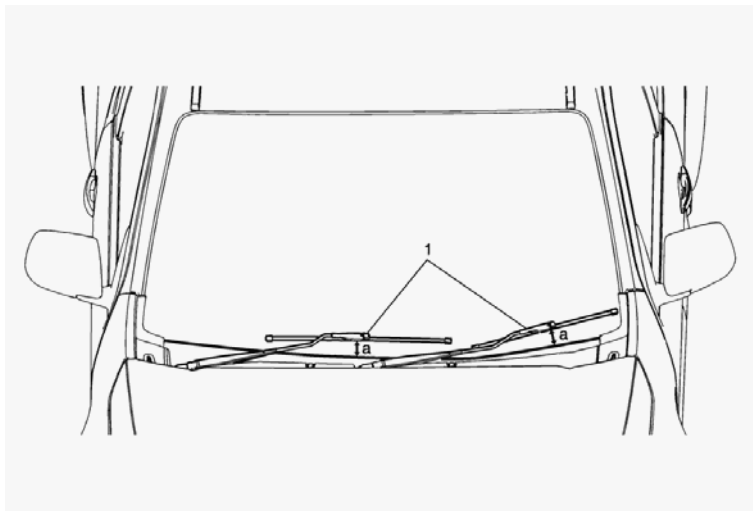
1

1. Lubricate the windshield with washer fluid.
2. Run the wipers then turn off the wipers.
3. Ensure the wipers are in the full park position.
4. Inspect the wipers for proper position of **45 mm (1 3/4 in)(a)** from the wiper blade element to the molding on the air inlet grille panel.
5. Realign the wiper arm to **45 mm (1 3/4 in)(a)** if required. Refer to Windshield Wiper Arm Replacement.

2013 Chevrolet Colorado

Submodel: | Engine Type: | Liters:

Fuel Delivery: | Fuel:



Windshield Wiper Arm Adjustment

Callout

Component Name

Windshield Wiper Arm

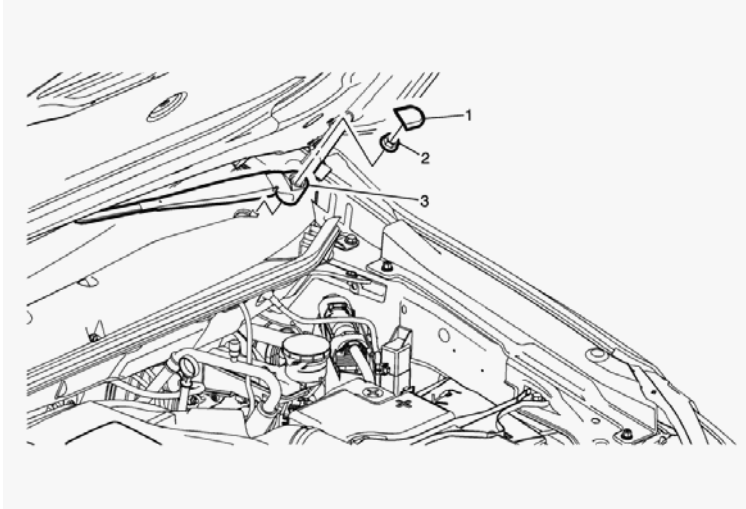
Procedure

1

1. Lubricate the windshield with washer fluid.
2. Run the wipers then turn off the wipers.
3. Ensure the wipers are in the full park position.
4. Inspect the wipers for proper position of **45 mm (1 3/4 in)(a)** from the wiper blade element to the molding on the air in grille panel.
5. Realign the wiper arm to **45 mm (1 3/4 in)(a)** if required. Refer to Windshield Wiper Arm Replacement.

2013 Chevrolet Colorado

Submodel: | Engine Type: | Liters:
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Windshield Wiper Arm Replacement

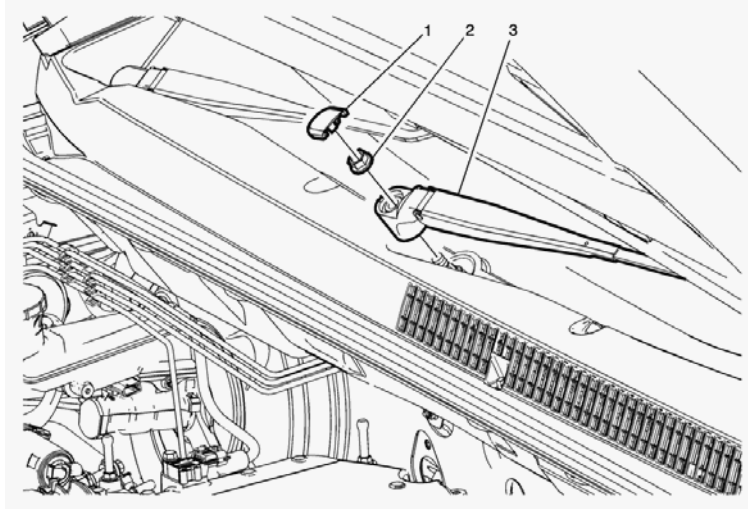
Callout

Component Name

- | | |
|---|---|
| 1 | <p>Windshield Wiper Arm Nut Cap</p> <p>Procedure</p> <p>Use a small flat-bladed tool to release the finish cap from the wiper arm assembly.</p> |
| 2 | <p>Windshield Wiper Arm Nut</p> <p>Caution: Refer to Fastener Caution.</p> <p>Tighten</p> <p>25 Y (18 lb ft)</p> |
| 3 | <p>Windshield Wiper Arm</p> <p>Procedure</p> <ol style="list-style-type: none">1. Remove the wiper arm from the pivot shaft.2. Clean the pivot shaft knurls with a soft wire brush before installing a new wiper arm.3. Adjust the wiper arms. Refer to Windshield Wiper Arm Adjustment. |

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Fuel Delivery: | Fuel:



Windshield Wiper Arm Replacement

Callout

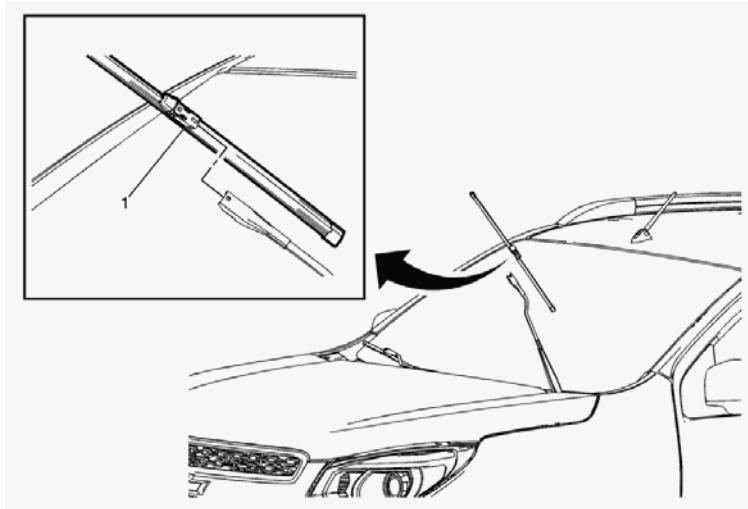
Component Name

- | | |
|---|---|
| 1 | Windshield Wiper Arm Nut Cap
Procedure
Use a small flat-bladed tool to release the finish cap from the wiper arm assembly. |
| 2 | Windshield Wiper Arm Nut
Caution: Refer to Fastener Caution.
Tighten
25 Y (18 lb ft)
Windshield Wiper Arm
Procedure |
| 3 | <ol style="list-style-type: none">1. Remove the wiper arm from the pivot shaft.2. Clean the pivot shaft knurls with a soft wire brush before installing a new wiper arm.3. Adjust the wiper arms. Refer to Windshield Wiper Arm Adjustment. |

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Submodel: | Engine Type: | Liters:

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Windshield Wiper Blade Replacement

Callout

Component Name

Windshield Wiper Blade Assembly

Procedure

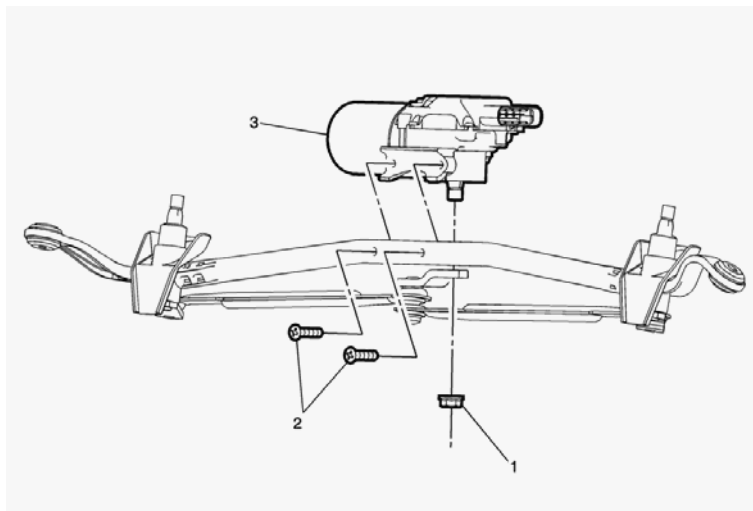
1

1. Reposition the wiper arm to the service position.
2. Depress the locking tab on the wiper blade and slide the wiper blade from the arm.
3. Position the new wiper blade to the end of the wiper arm.
4. Slide the blade into position until fully seated.
5. Reposition the wiper arm from the service position.
6. Inspect the wiper arm for proper operation.

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Fuel Delivery: | Fuel:



Windshield Wiper Motor Replacement

Callout

Component Name

Preliminary Procedure

Remove the windshield module. Refer to Windshield Wiper Transmission Replacement.

Windshield Motor Crank Arm Nut

Caution: Refer to Fastener Caution.

1

Tighten

32 Y (24 lb ft)

Windshield Wiper Motor Bolt (Qty: 2)

2

Tighten

8.5 Y (75 lb in)

3

Windshield Wiper Motor

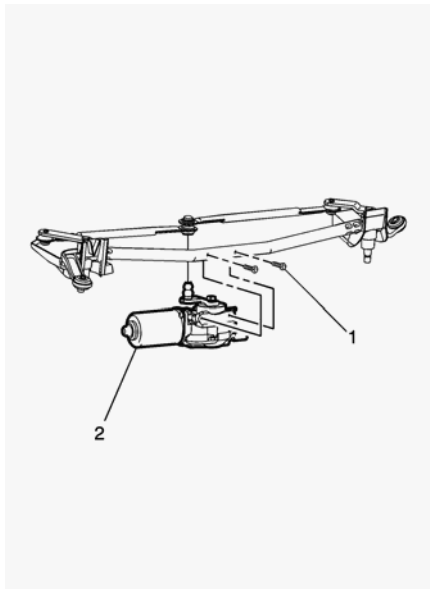
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Fuel Delivery: | Fuel:

Removal Procedure

1. Remove the windshield wiper transmission. Refer to Windshield Wiper Transmission Replacement.



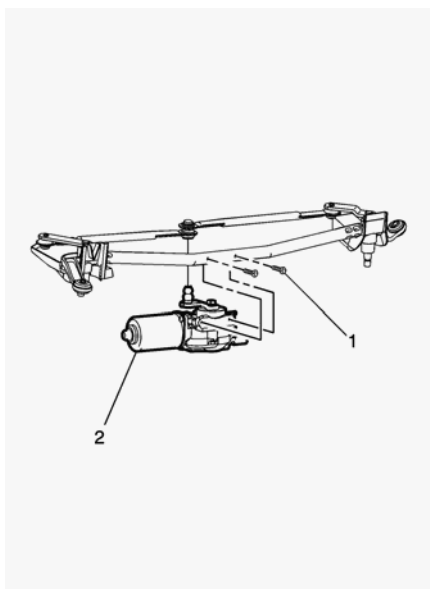
2. Remove the windshield wiper motor crank arm nut (1).
3. Remove the windshield wiper motor bolts (2).
4. Remove the windshield wiper motor from the wiper transmission.

Installation Procedure

1. Connect the wiring harness to the wiper motor.

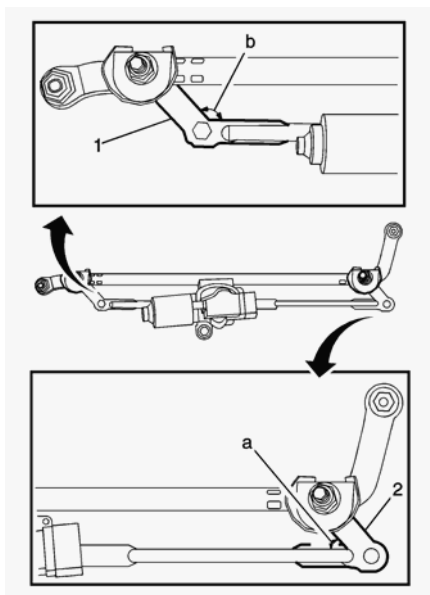
Note: Do not assemble the wiper motor to the transmission arms.

2. Turn the ignition on and set the wiper switch to one cycle, to reset the wiper motor to the wiper motor initial position.



Caution: Refer to Fastener Caution.

3. Position the windshield wiper motor (3) to the wiper transmission.
4. Install the wiper motor bolts (2) and tighten to **8.5 Y (75 lb in)**.
5. Install the windshield wiper motor crank arm nut (1).

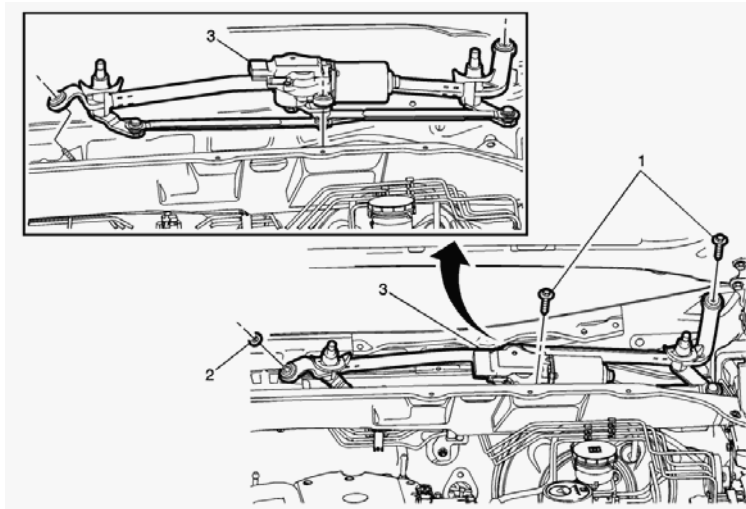


Note: Ensure the wiper motor will not rotate and loose the reference points.

6. Ensure the windshield wiper motor crank arm is in the correct position, (1) to -135.0027 degrees (b) and (2) to -48.9469 degrees (a), use appropriate tool
7. Install the windshield wiper transmission. Refer to Windshield Wiper Transmission Replacement.

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Fuel Delivery: | Fuel:



Windshield Wiper Transmission Replacement

Callout

Component Name

Preliminary Procedure

Remove the air inlet grille panel. Refer to Air Inlet Grille Panel Replacement.

Windshield Wiper Transmission Bolt (Qty: 2)

Caution: Refer to Fastener Caution.

1

Tighten

5 Y (44 lb in)

Windshield Wiper Transmission Nut

Procedure

2

Tighten

5 Y (44 lb in)

Windshield Wiper Transmission

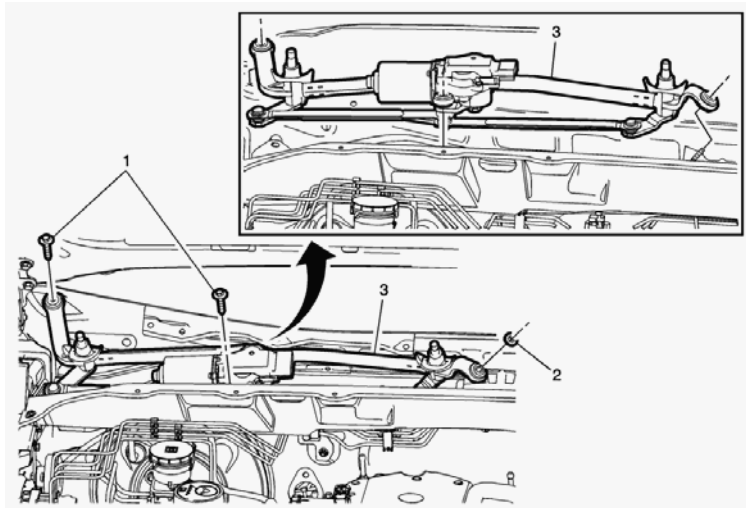
Procedure

3

1. Disconnect the electrical connector from the wiper motor.
2. Rotate the rearward edge of the transmission from the wiper unit brackets.
3. Lift the wiper transmission assembly upward and rotate the wiper transmission forward out of the plenum.
4. Remove the wiper transmission assembly from the vehicle.
5. Remove and transfer the windshield wiper motor, if needed. Refer to Windshield Wiper Motor Replacement.

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



Windshield Wiper Transmission Replacement

Callout

Component Name

Preliminary Procedure

Remove the air inlet grille panel. Refer to Air Inlet Grille Panel Replacement.

Windshield Wiper Transmission Bolt (Qty: 2)

1 **Caution:** Refer to Fastener Caution.

Tighten

5 Y (44 lb in)

Windshield Wiper Transmission Nut

2 **Tighten**

5 Y (44 lb in)

Windshield Wiper Transmission

Procedure

- 3
1. Disconnect the electrical connector from the wiper motor.
 2. Rotate the rearward edge of the transmission from the wiper unit brackets.
 3. Lift the wiper transmission assembly upward and rotate the wiper transmission forward out of the plenum.
 4. Remove the wiper transmission assembly from the vehicle.
 5. Remove and transfer the windshield wiper motor, if needed. Refer to Windshield Wiper Motor Replacement.