

## Front Floor Console Cup Holder Illumination Lamp Package Installation

Table 1: [Cupholder Lighting Kit Contents](#)

Table 2: [Footwell Lighting Kit Contents](#)

Installation Instructions Part Number

22981049

Cupholder Lighting Kit Contents

Qty	Description
1	Lighting ECU
1	Cupholder LED's with Pigtail Harness
1	Switch with Pigtail Harness
1	8 - Way Connector (shipped loose)
1	Power Harness
1	Installation and Hardware Kit
1	Installation Instructions
1	Owner's Manual

Footwell Lighting Kit Contents

Qty	Description
1	Footwell LED's with Pigtail Wiring Harness
1	Footwell Specific Hardware Kit

### [Recommended Tools](#)

- Plastic Trim Removal Tool
- Drill with 1/8", 1/2" and 5/16" drill bits
- ¼ Drive Ratchet with 7 mm and 10 mm Sockets
- Center Punch/Awl
- T 15 and T 20 Torx bit
- 3/8" Gasket Punch
- Mallet

### Recommended Install Time

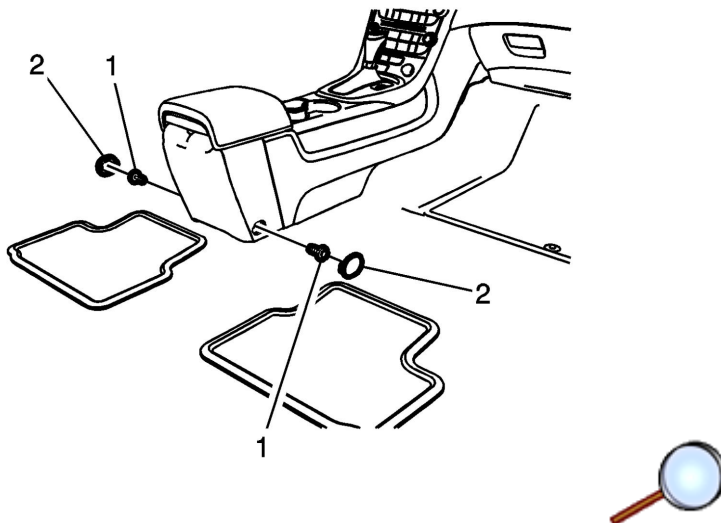
- Footwell only - 1.3 Hrs
- Footwell and Cupholder - 1.7 Hrs

### Installation Sequence

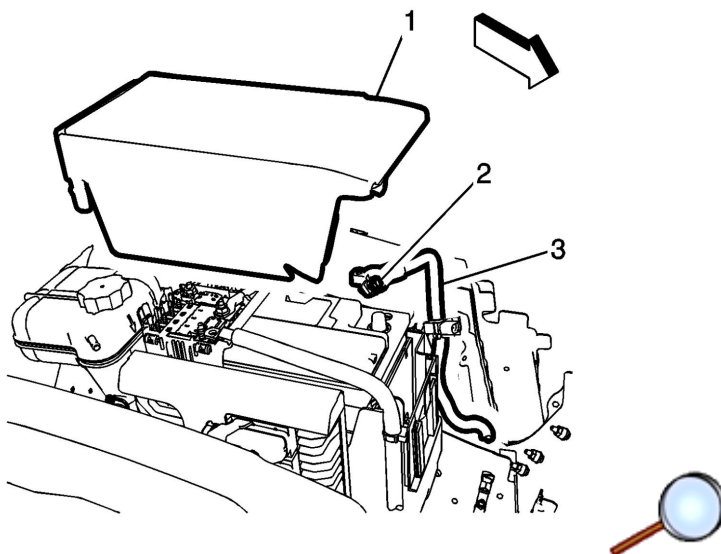
Note: Please review the entire procedure before trying to perform it.

Note: After safety mandated preparatory steps have been taken, the installation sequence is the suggested method for completing the accessory installation. In some instances, the suggested sequence is written for one associate to install and in others the sequence is given as part of a team accessory installation. Unless otherwise stated in the document, the associates may perform the installation steps in any order to make the installation as efficient as possible while maintaining consistent quality.

### Battery Disconnect



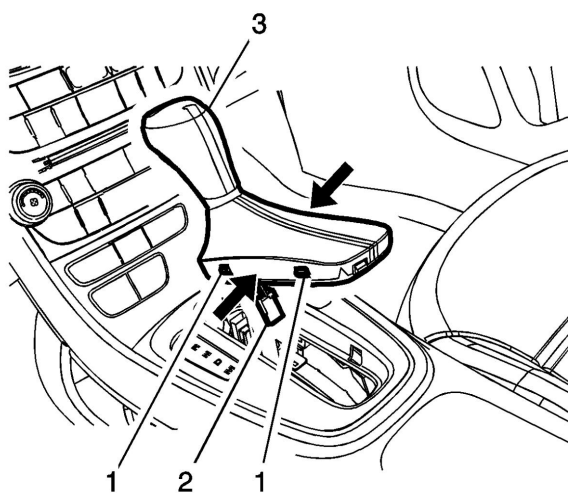
1. Move the driver and passenger seat forward and remove the rear console side covers (2) and fasteners (1).
2. Move the driver and passenger seat to the most rearward and low position.
3. Disable the SIR system. Refer to Vehicle Service Manual.



**Note:** Unless directed otherwise, the ignition and start switch must be in the OFF or LOCK position, and all electrical loads must be OFF before servicing any electrical component. Disconnect the negative battery cable to prevent an electrical spark should a tool or equipment come in contact with an exposed electrical terminal. Failure to follow these precautions may result in personal injury and/or damage to the vehicle or its components.

4. Record radio and engine oil life presets.
5. Turn off all lamps and accessories.
6. Place the ignition switch in the OFF position.
7. Remove the battery cover (1).
8. Loosen negative battery terminal fastener (2), and remove negative battery cable (3) from battery.

#### [Remove Front Floor Console \(Model Year 2013 Only\)](#)

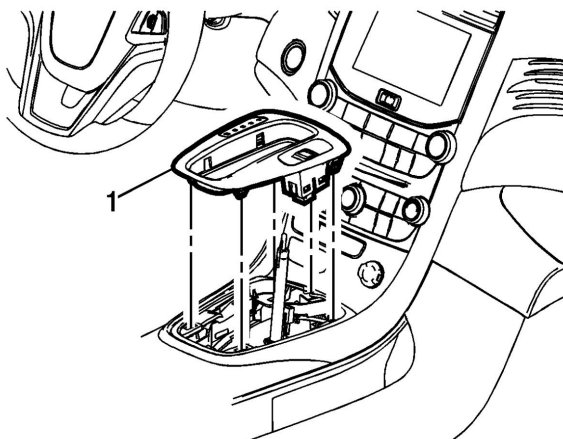


**Note:** Apply protective tape to the console around the shifter trim plate to prevent scratching.

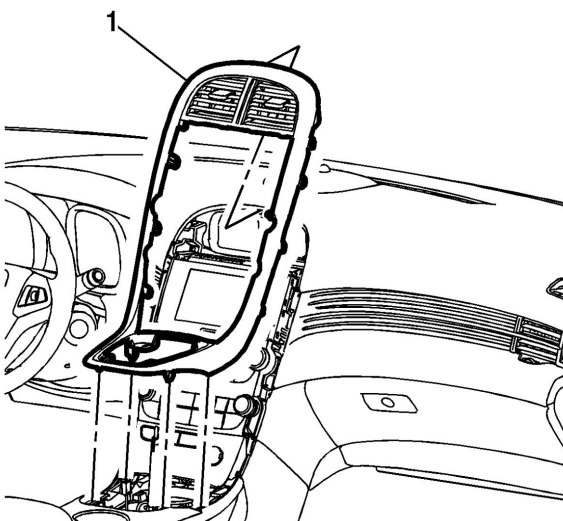
**Note:** The control lever boot and knob are removed as an assembly.

1. Using a flat-bladed plastic trim tool, release the retainer clips (1) securing the control lever boot.

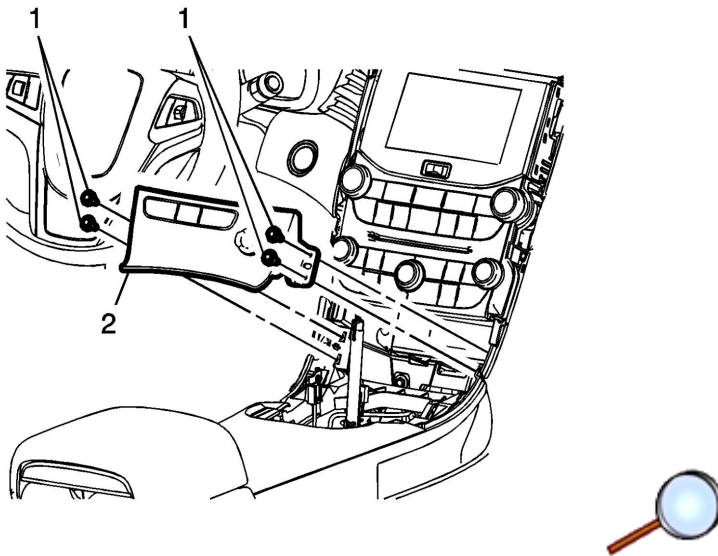
2. Disconnect the electrical connector (2), from the shifter boot assembly.
3. Pull upward and twist control lever knob (3) and remove shifter boot assembly.



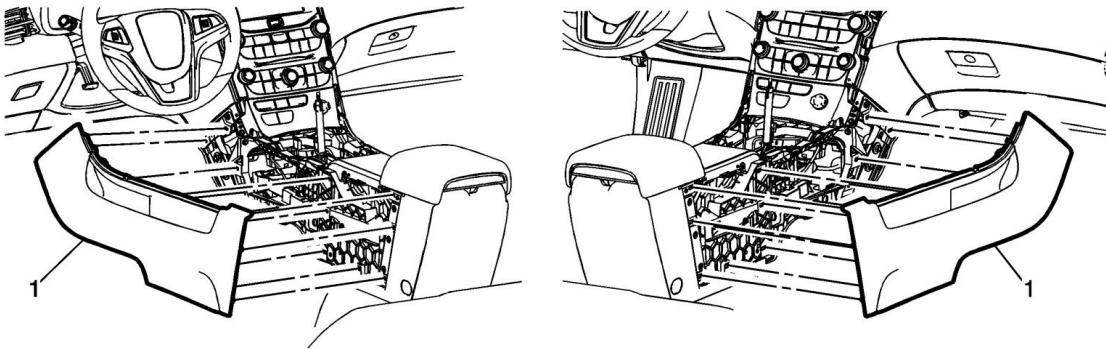
4. Using a flat-bladed plastic trim tool, release the retainer clips securing the automatic transmission control indicator bezel to the console assembly.
5. Disconnect electrical connectors and remove the automatic transmission control indicator bezel (1).



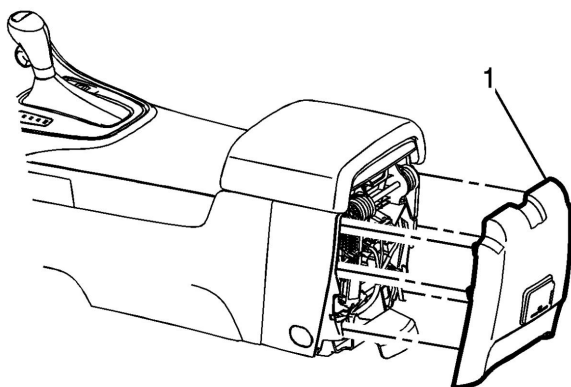
6. Starting at the top edge of the accessory bezel working down along each side, use a flat bladed plastic trim tool in order to release the retainer clips securing the accessory bezel to the instrument panel.
7. Remove the accessory bezel (1) from the instrument panel.



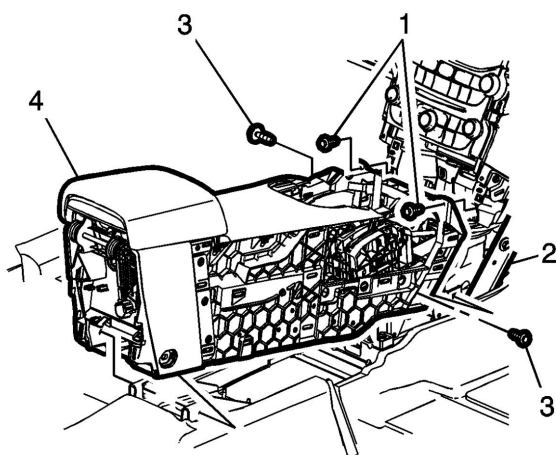
8. Remove the fasteners (1) from the instrument panel trim plate.
9. Disconnect electrical connectors and remove instrument panel trim plate (2) from instrument panel.



10. Using a flat bladed plastic trim tool, release the retainer clips securing the front floor console extension to the console assembly.
11. Disconnect electrical connectors, if equipped and remove the front floor console extensions (1) from the console.

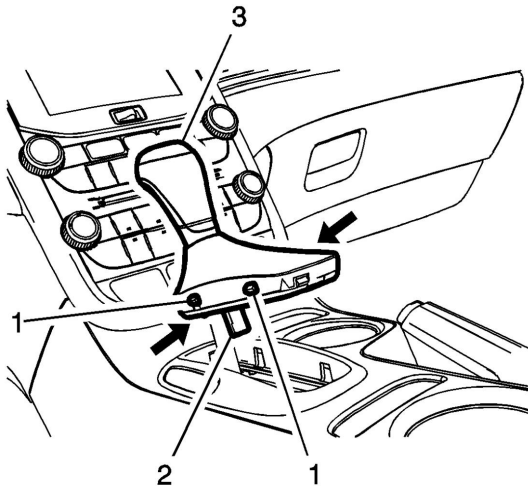


12. Using a flat bladed plastic trim tool, release the retainer clips securing the front floor console rear trim panel to the console assembly.
13. Disconnect electrical connections and remove the front floor console rear trim panel (1) from the console.



14. Remove the front upper console fasteners (1).
15. Remove the front side console fasteners (3).
16. Remove the right lower instrument panel brace (2) in order to access the console instrument panel connector.
17. Disconnect the electrical harnesses, connections and remove front floor console assembly (4).

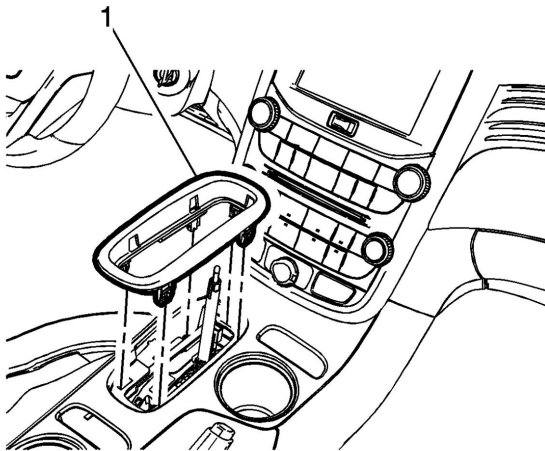
[Remove Front Floor Console \(Model Year 2014 and Newer\)](#)



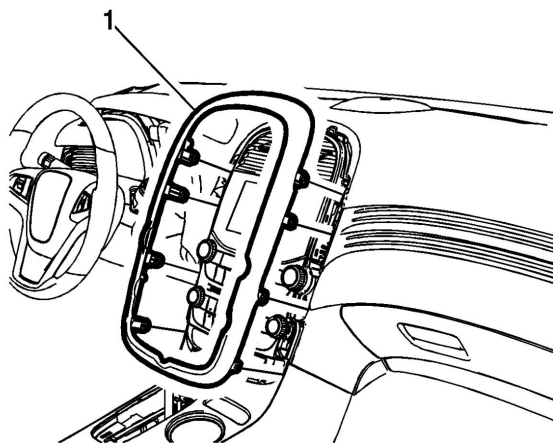
**Note:** Apply protective tape to the console around the shifter trim plate to prevent scratching.

**Note:** The control lever boot and knob are removed as an assembly.

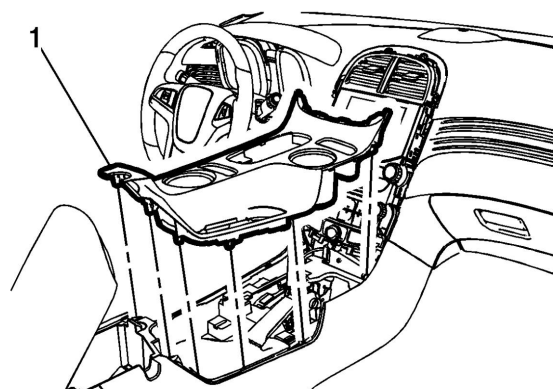
1. Using a flat-bladed plastic trim tool, release the retainer clips (1) securing the control lever boot.
2. Disconnect the electrical connector (2), from the shifter boot assembly.
3. Pull upward and twist control lever knob (3) and remove shifter boot assembly.



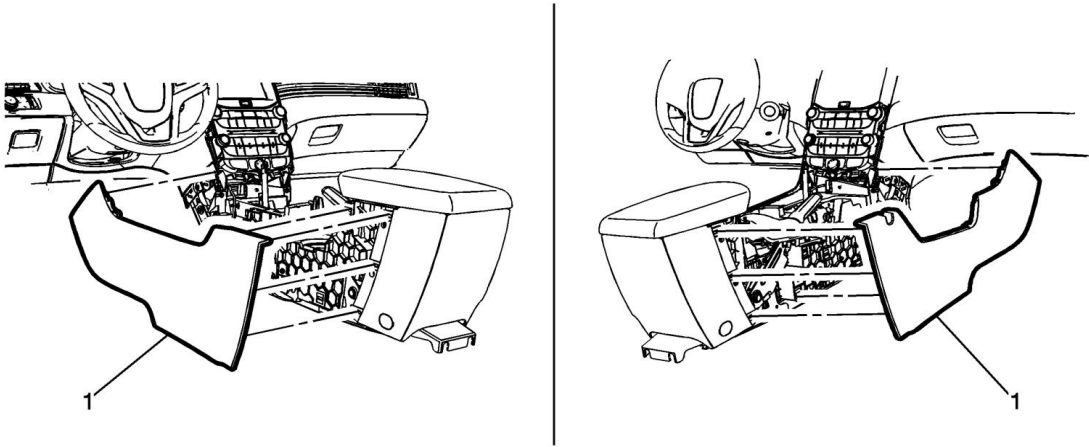
4. Using a flat-bladed plastic trim tool, release the retainer clips securing the automatic transmission control indicator bezel to the console assembly.
5. Disconnect electrical connectors and remove the automatic transmission control indicator bezel (1).



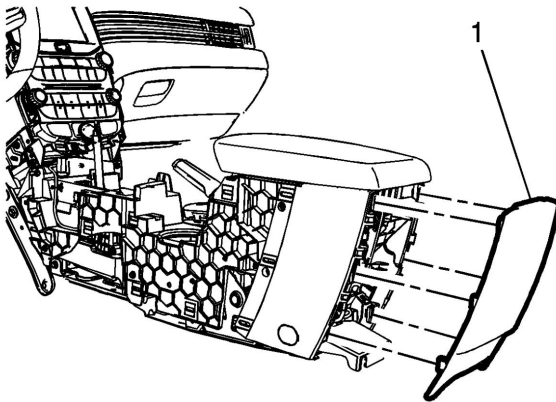
6. Starting at the top edge of the accessory bezel working down along each side, use a flat bladed plastic trim tool in order to release the retainer clips securing the accessory bezel to the instrument panel.
7. Remove the accessory bezel (1) from the instrument panel.



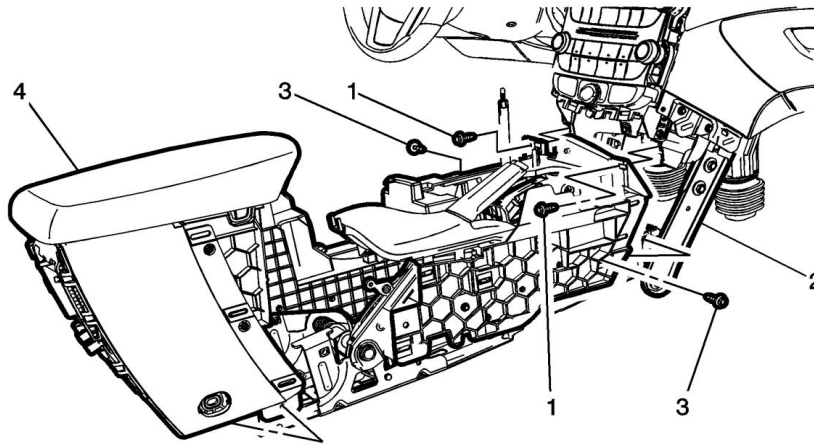
8. Using a flat bladed plastic trim tool, release the retaining clips securing the front floor console/cupholder trim panel to the console assembly.
9. Remove the front floor console/cupholder trim panel assembly (1) from the console.



10. Using a flat bladed plastic trim tool, release the retainer clips securing the front floor console extension to the console assembly.
11. Disconnect electrical connectors, if equipped and remove the front floor console extensions (1) from the console.

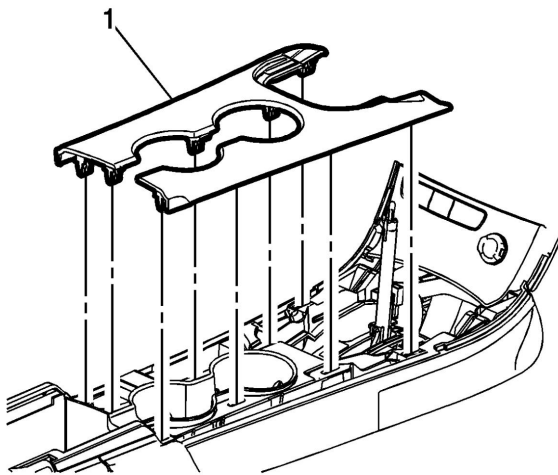


12. Using a flat bladed plastic trim tool, release the retainer clips securing the front floor console rear trim panel to the console assembly.
13. Disconnect electrical connections, if equipped and remove the front floor console rear trim panel (1) from the console.

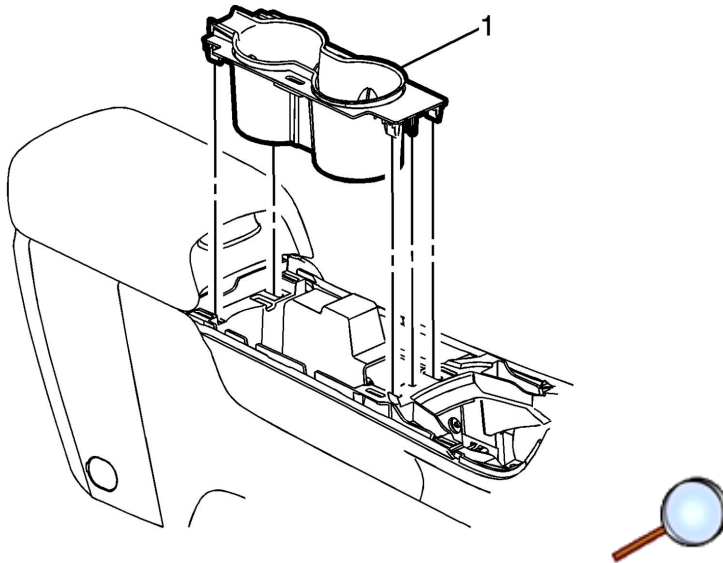


14. Remove the front upper console fasteners (1).
15. Remove the front side console fasteners (3).
16. Remove the right lower instrument panel brace (2) in order to access the console instrument panel connector.
17. Disconnect the electrical harnesses, connections and remove front floor console assembly (4).

[Remove Front Floor Console Cup Holder \(Model Year 2013 Only\)](#)



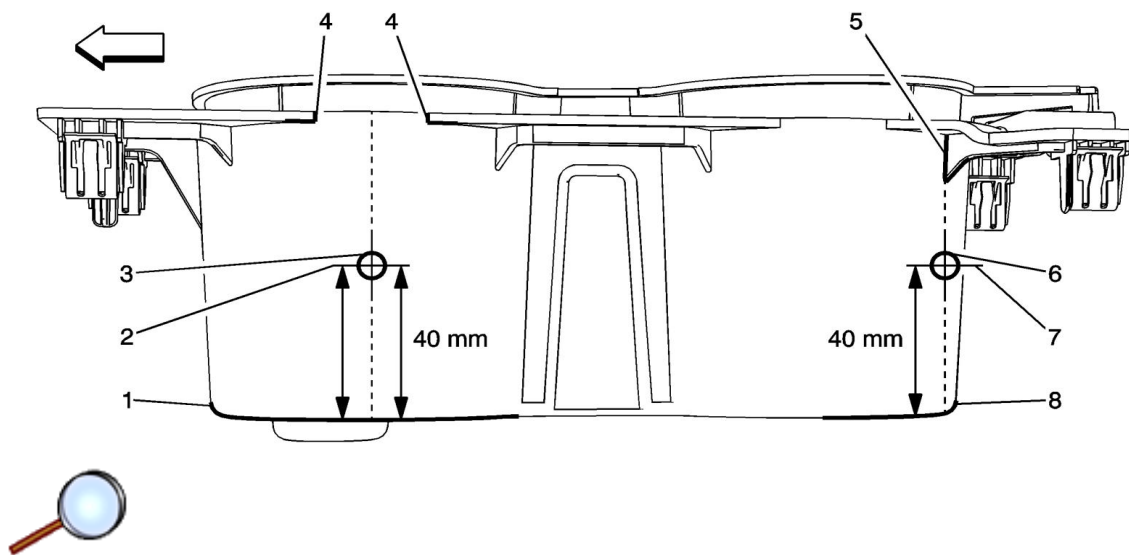
1. Using a flat bladed plastic trim tool, release the retaining clips securing the front floor console trim panel to the console assembly.
2. Remove the front floor console trim panel assembly (1) from the console.



3. Using a flat bladed plastic trim tool, release the retaining clips securing the front floor console cup holder to the console assembly.
4. Remove the front floor console cup holder (1) from the console.

#### [Install Cupholder Lamps \(Model Year 2013 Only\)](#)

Note: This section is for LS vehicles only.

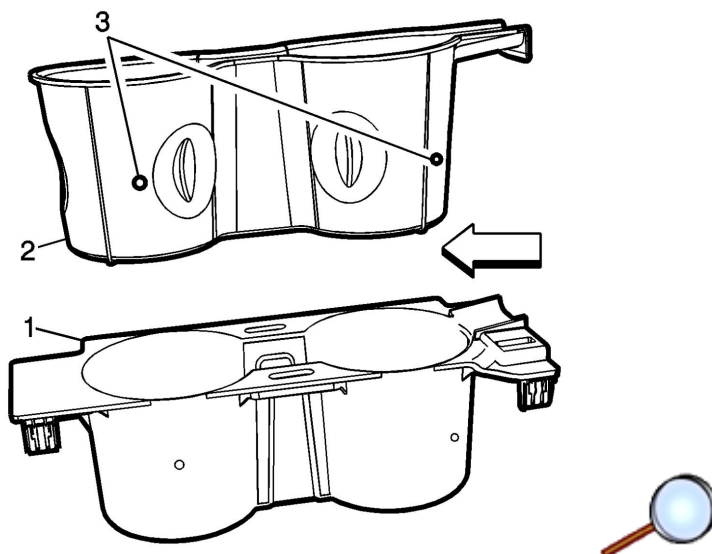


Note: Both LED's are to be mounted in the side wall of each cupholder, (left side of the cupholder insert).

1. For the forward cup, locate the center of the two ridges (4) near the top. Measure from the bottom of the cup (1) in between the two ridges up 40mm (2) and scribe a hole (3).
2. For the rearward cup, locate the rear rib (5) near the top. From the bottom of the cup (8) in line at the rear rib measure up 40mm (7) and scribe a hole (6).
3. For the forward cup, drill a 1/8" pilot hole through the plastic and the liner in the scribed area marked (3).

Note: Make sure the liner is pressed against the plastic for good alignment.

4. Place a drill or pin to hold the liner, and drill a 1/8" pilot hole in the scribed area marked (6) in the rearward cup.



5. Remove the liner (2) from the cupholder (1).

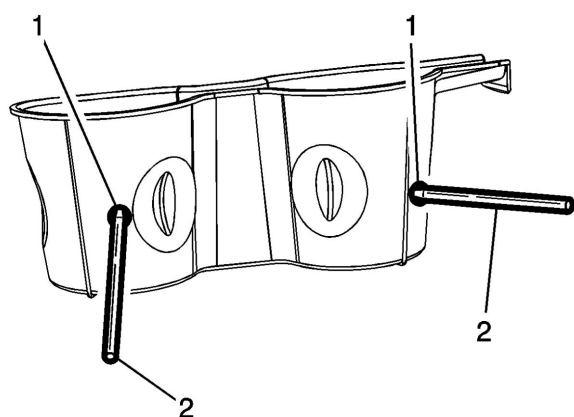
6. Drill out both pilot holes on cupholder using a 5/16" drill bit. De burr holes.

**Note:** Use caution not to oversize the holes.

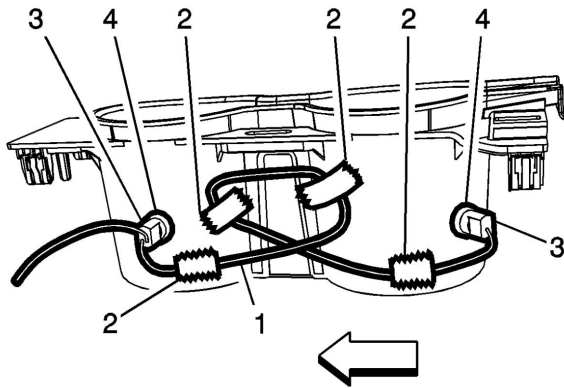
**Note:** Place the liner around a hard material that won't damage it.

**Note:** For a more finished look, please follow step 6.1. If a gasket punch is not available, follow step 6.2.

6.1. Center 3/8" gasket punch around each pilot hole (3) and punch hole. Place liner back in cupholder.



6.2. Place a pen (2) in pilot hole (1) and cut approximately 4mm around it with a sharp knife.



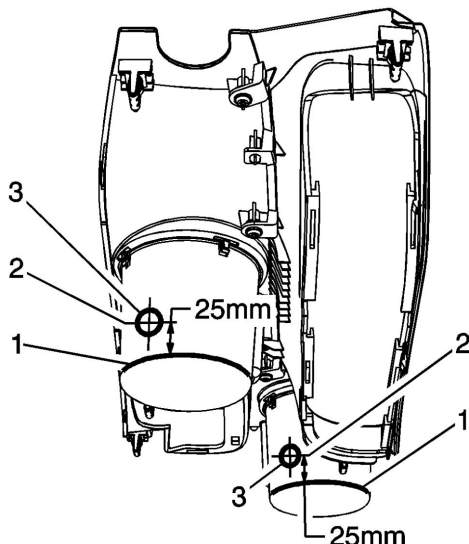
7. From inside of cupholder, insert a lens (3) through the drilled holes.

**Note:** Leave tape adhesive dot on lens. Install the single harness LED in the rear cupholder and the two harnesses LED in the front cupholder, given that one of the circuit wiring connects to the lighting box.

Use threadlock if tape adhesive is not strong enough.

8. Place serrated washer (4) to outside of cupholder over lens body.
9. From the outside of the cupholder, install the LED's onto the lenses. Turn the LED while holding the lens from the inside. LED's should firmly seat to the cupholder.
10. Secure excess harness (1) with tape (2) to the side of the cupholder.

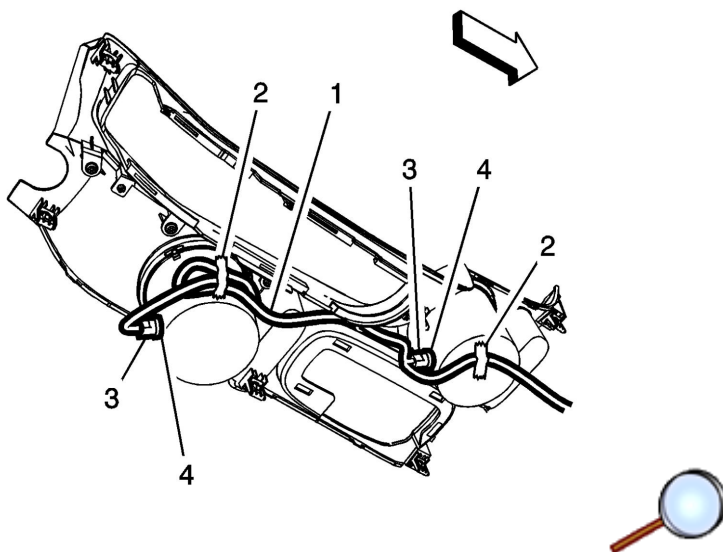
#### [Install Cupholder Lamps \(Model Year 2014 and Newer\)](#)



**Note:** Both LED's are to be mounted in the side wall of each cupholder, ( in the 7 o'clock position of each cupholder).

1. At the rear of each cup in the 7 o'clock position, measure from the bottom of the cup (1) up 25mm (2) and scribe a hole (3).
2. Drill a 1/8" pilot hole through the plastic in the scribed area marked (3).
3. Drill out both pilot holes on cupholder using a 5/16" drill bit. De burr holes.

Note: Use caution not to oversize the holes.



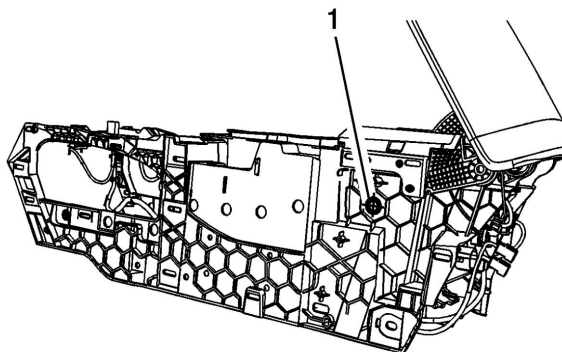
4. From inside of cupholder, insert a lens (3) through the drilled holes.

Note: Leave tape adhesive dot on lens. Install the single harness LED in the rear cupholder and the two harnesses LED in the front cupholder, given that one of the circuit wiring connects to the lighting box.

Use threadlock if tape adhesive is not strong enough.

5. Place serrated washer (4) to outside of cupholder over lens body.
6. From the outside of the cupholder, install the LED's onto the lenses. Turn the LED while holding the lens from the inside. LED's should firmly seat to the cupholder.
7. Secure excess harness (1) with tape (2) to the side of the cupholder.

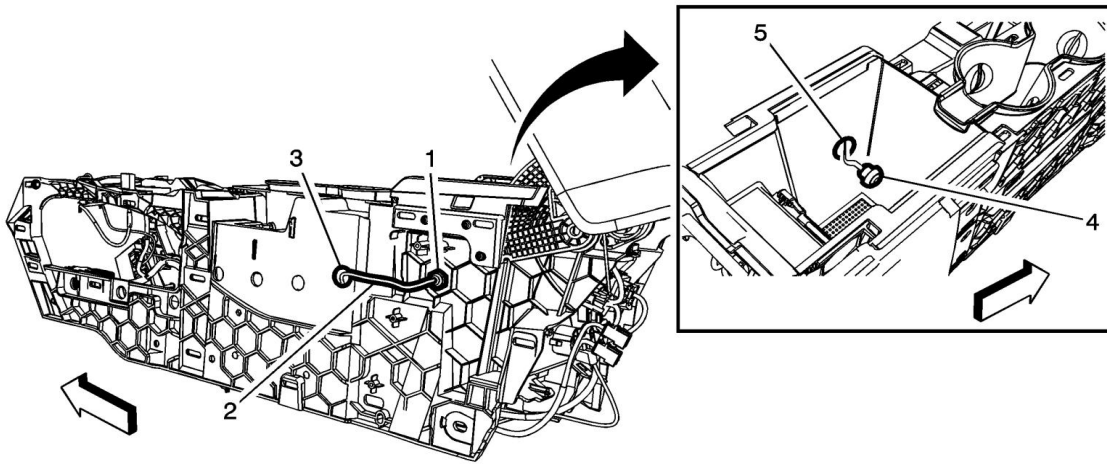
#### [Install Switch \(Model Year 2013 Only\)](#)



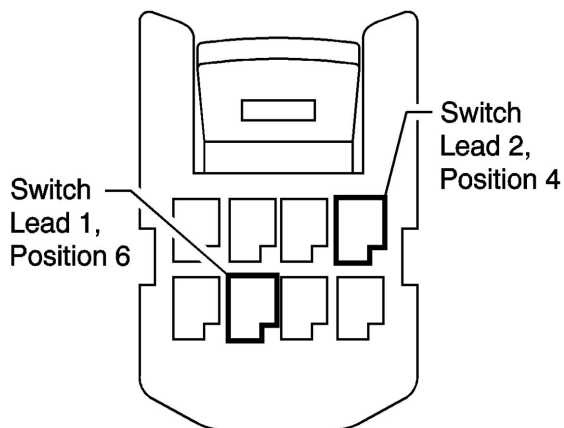
1. Scribe a mark in the area shown (1) on the side of the console.

Note: Use caution not to oversize holes.

Deburr hole and remove plastic debris.



2. With the LED switch in hand, remove the nut from the switch and wiring pigtail, keep gasket in place on switch.
3. Route pigtail switch harness (2) through the existing hole (3) in the side of the console and continue to route to the 1/2" hole drilled (5).
4. Insert the switch wiring and switch (4) through the hole (5).
5. Attach nut (1) to the backside of switch and securely tighten the switch to the console. Use wrench to snug the nut.

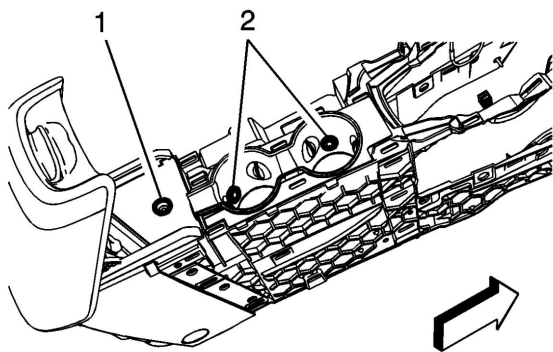


Viewed from the backside  
(wire side) of the connector



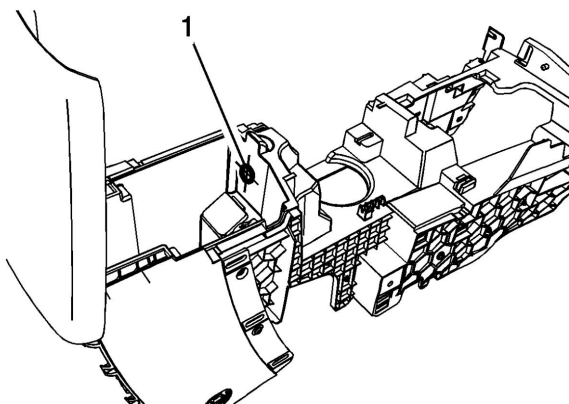
6. Insert bare terminals on ends of switch harness into cavities 4 and 6 of the WHITE 8-pin spare connector included in the switch package. Press down on the TPA on the top of the connector body to lock the terminals into the connector. Refer to connector cavity number as shown for proper terminal location.

**Note:** Either WHITE wire can be inserted into either cavity.



7. Once installed, this is how the cupholder LED's (2) and switch (1) should look.

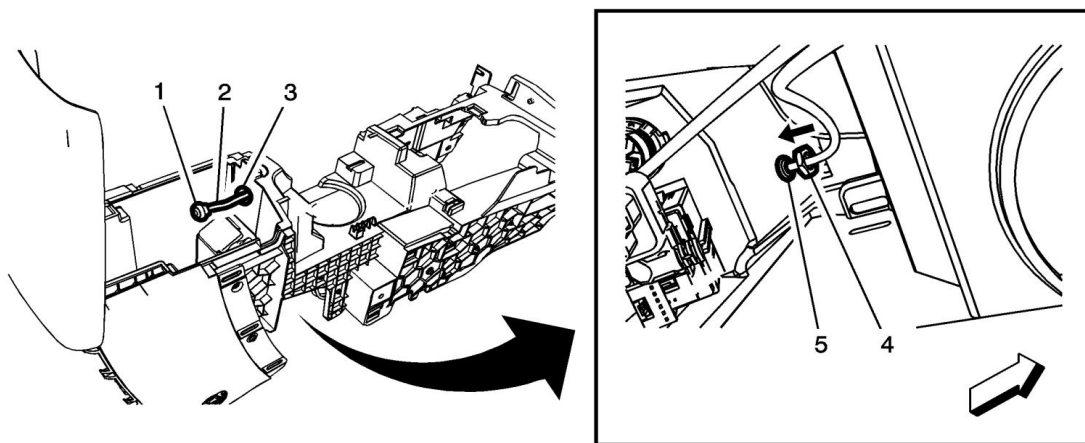
[Install Switch \(Model Year 2014 and Newer\)](#)



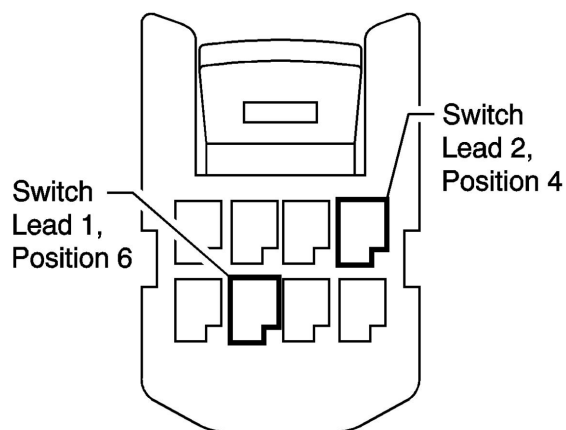
1. Scribe a mark in the area shown (1) on the inside compartment of the console.

**Note:** Use caution not to oversize holes.

Debur hole and remove plastic debris.



2. With the LED switch in hand, remove the nut from the switch and wiring pigtail, keep gasket in place on switch.
3. Insert the switch wiring (2) and switch (1) through 1/2" hole drilled (3).
4. Attach nut (4) to the backside of switch (5) and securely tighten the switch to the console. Use wrench to snug the nut.



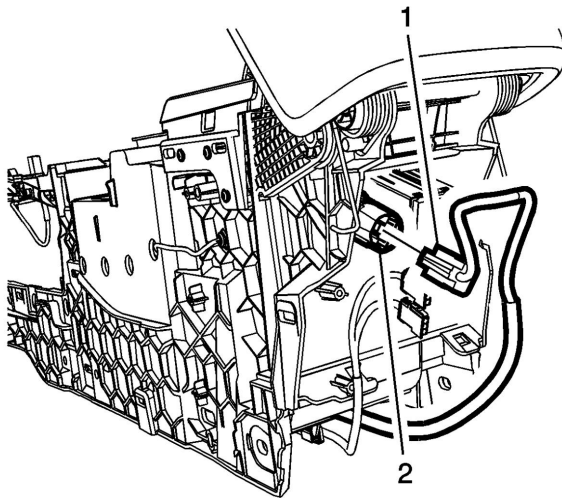
Viewed from the backside  
(wire side) of the connector



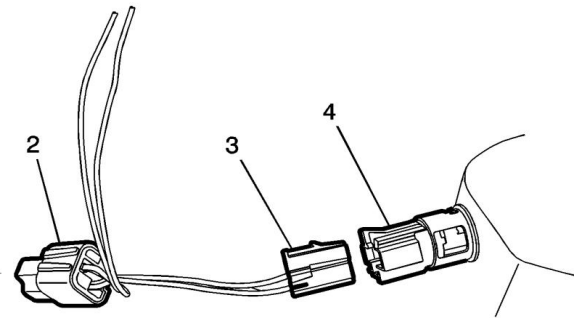
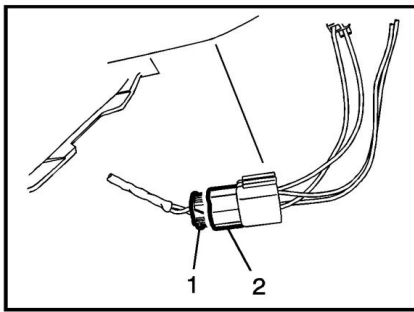
5. Insert bare terminals on ends of switch harness into cavities 4 and 6 of the WHITE 8-pin spare connector included in the switch package. Press down on the TPA on the top of the connector body to lock the terminals into the connector. Refer to connector cavity number as shown for proper terminal location.

**Note:** Either WHITE wire can be inserted into either cavity.

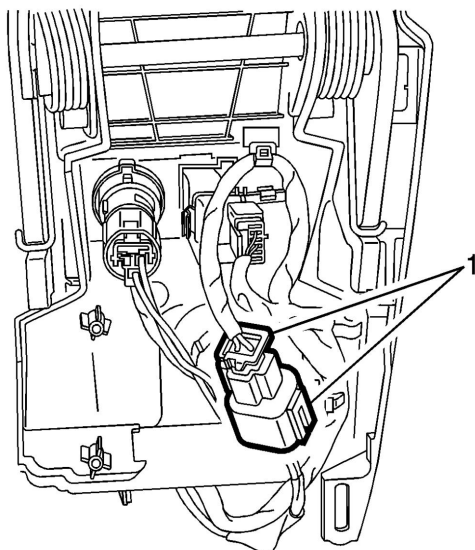
[Install Power Harness \(Model Year 2013 Only\)](#)



1. Disconnect the power harness connector (1) from the auxiliary power outlet connector (2).

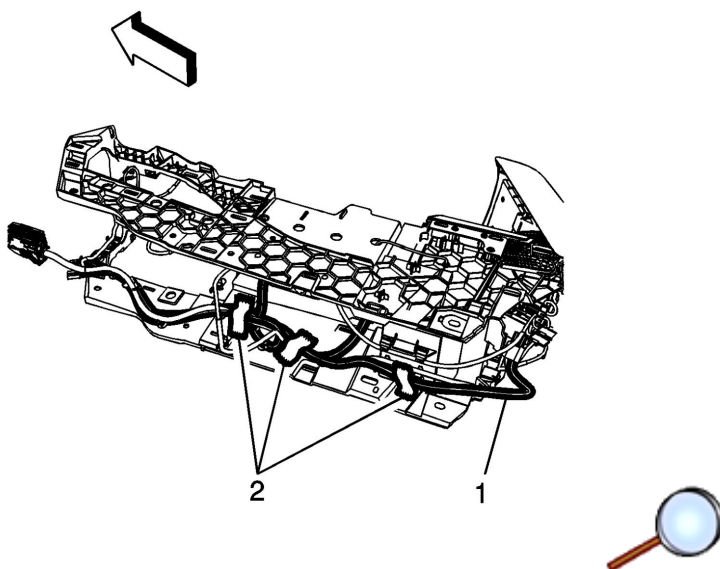


2. Connect the power harness connector (3) to the auxiliary power outlet (4)
3. Connect the power harness connector (2) to the auxiliary power outlet harness connector (1).



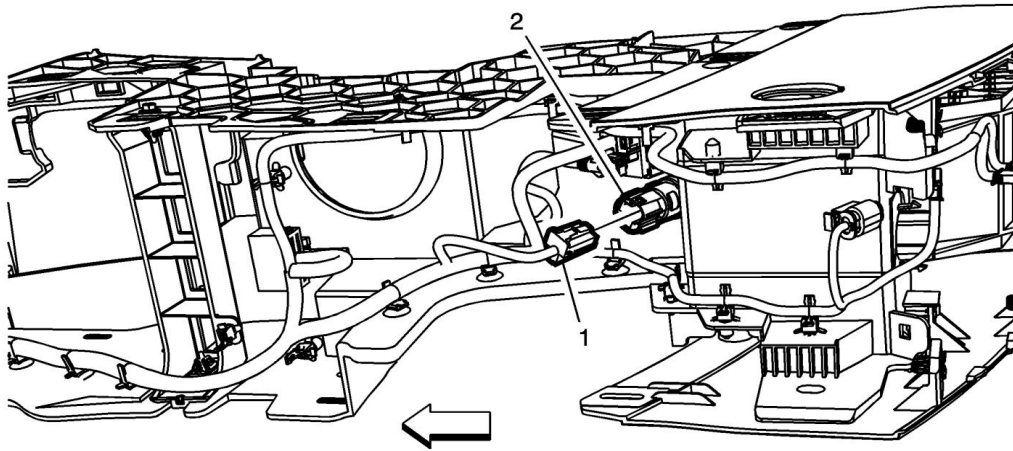
**Note:** Properly route the harness to eliminate pinching/chaffed wires.

4. Wrap the power harness and auxiliary power harness connectors (1) with foam tape.

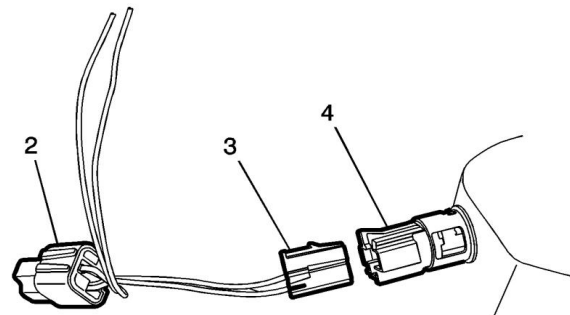
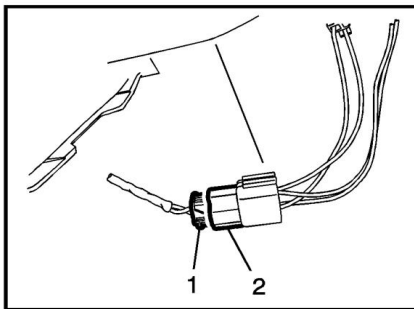


5. From the underside of front floor console, route the power harness, switch harness and cupholder LED harnesses (1) on the bottom surface of the cupholders, then along the inside surface of the console and secure with adhesive pads (2).

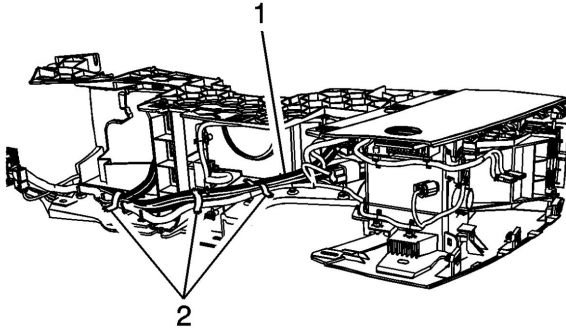
[Install Power Harness \(Model Year 2014 and Newer\)](#)



1. Disconnect the power harness connector (1) from the auxiliary power outlet connector (2).



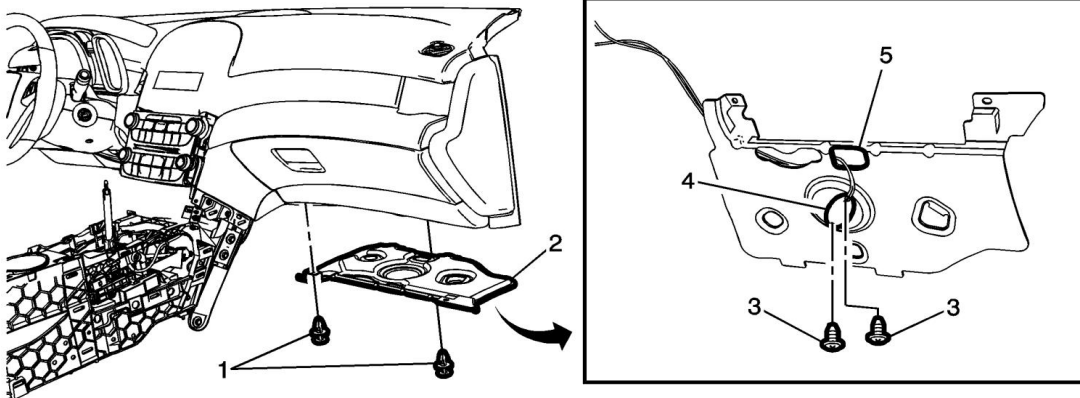
2. Connect the power harness connector (3) to the auxiliary power outlet (4)
3. Connect the power harness connector (2) to the auxiliary power outlet harness connector (1).



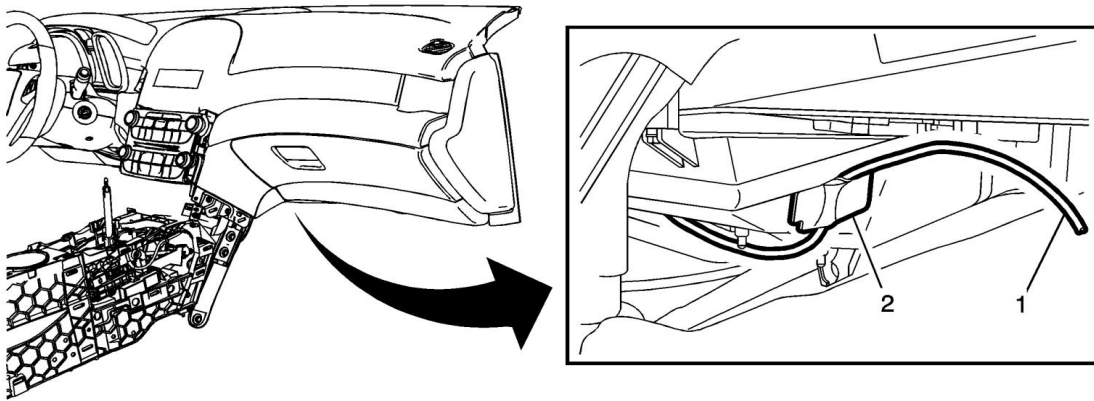
4. From the underside of front floor console, route the power harness, switch harness (1) along the inside surface of the console and secure with adhesive pads (2).

### Installation of Footwell Lighting

#### Install Right Side Illuminator

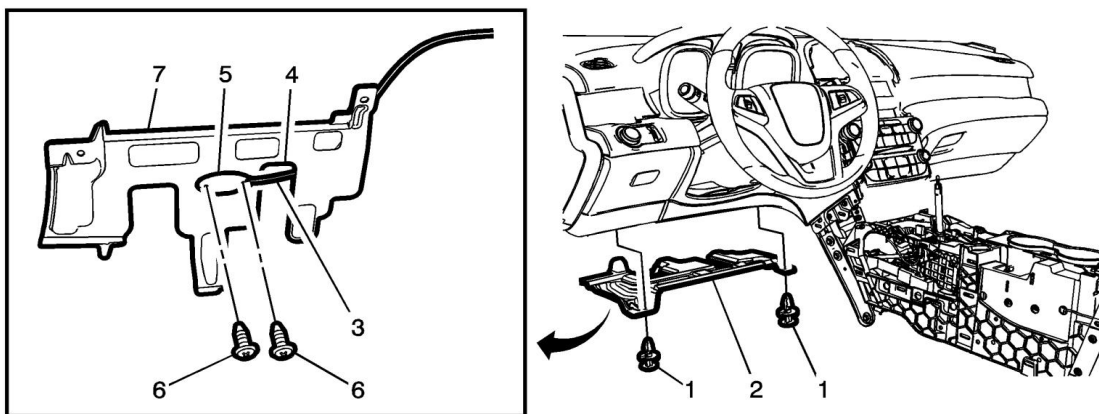


1. Remove the push-in retainers (1) from the right side instrument panel sound insulator (2). Remove the sound insulator panel (2).
- Note: Passenger side illuminator is the two wire illuminator.**
2. Route the wiring harness/illuminator assembly (4) through the hole (5) in the insulator panel.
3. Using the pull-tab, remove the tape liner from the back of the illuminator (4).
- Note: Avoid finger contact with the adhesive surface.**
4. Firmly press the illuminator (4) to the insulator panel to secure.
5. Secure the illuminator (4) to the panel using the two self-tapping screws (3).
6. Install the insulator panel.
7. Route the left side illuminator under the center of the instrument panel toward the left side insulator panel.

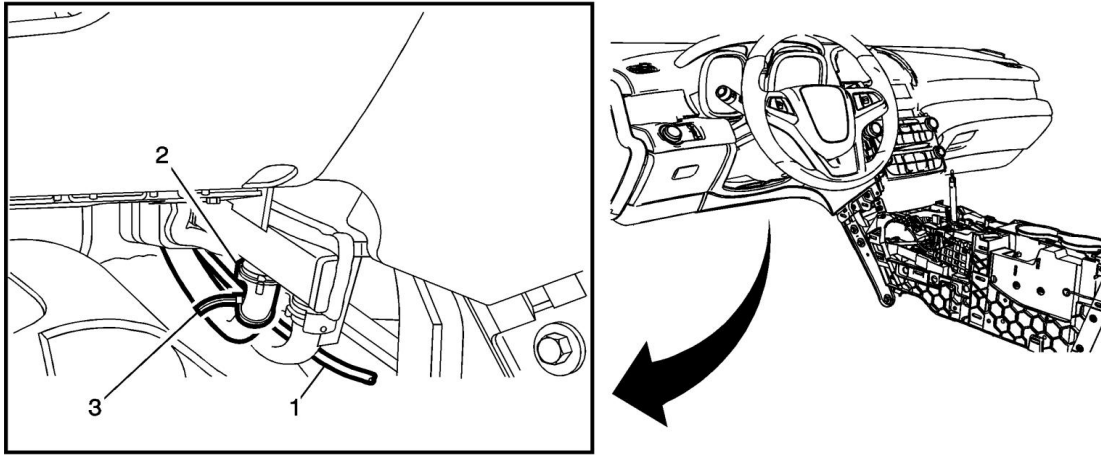


8. Secure wiring harness (1) to evaporator drain box with adhesive foam pad (2).

#### Install Left Side Illuminator



1. Remove the push-in retainers (1) and partially lower the left side instrument panel sound insulator (2).
2. Route the wiring harness/illuminator assembly (5) through the edge (4) in the insulator panel.
3. Using the pull-tab, remove the tape liner from the back of the illuminator (5).
- Note: Avoid finger contact with the adhesive surface.**
4. Firmly press the illuminator (5) to the insulator panel (7) to secure.
5. Secure the illuminator (5) to the panel using the two self-tapping screws (6).
6. Secure the wiring harness (3) by wrapping a foam pad around sound proofing and secure with cable tie.
7. Install the insulator panel.

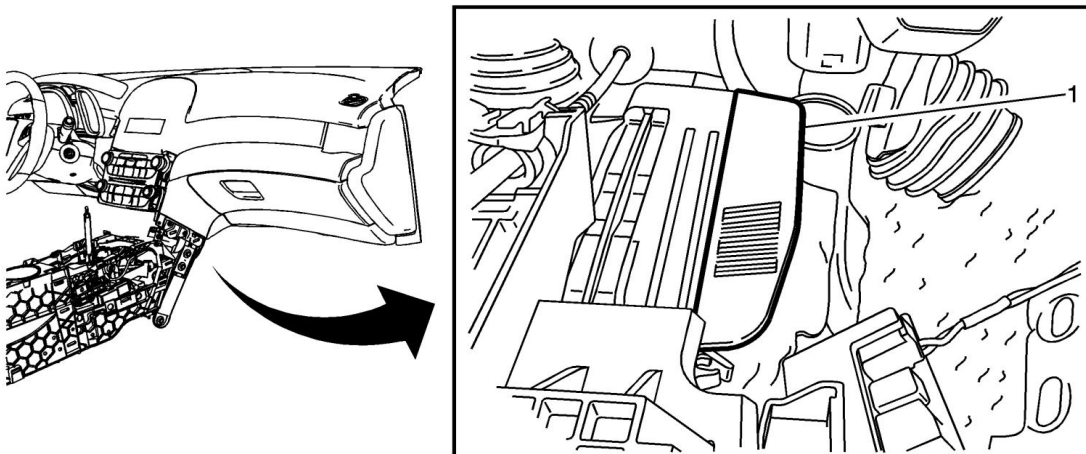


8. Secure wiring harness (1) with cable tie (3) to coolant line (2).

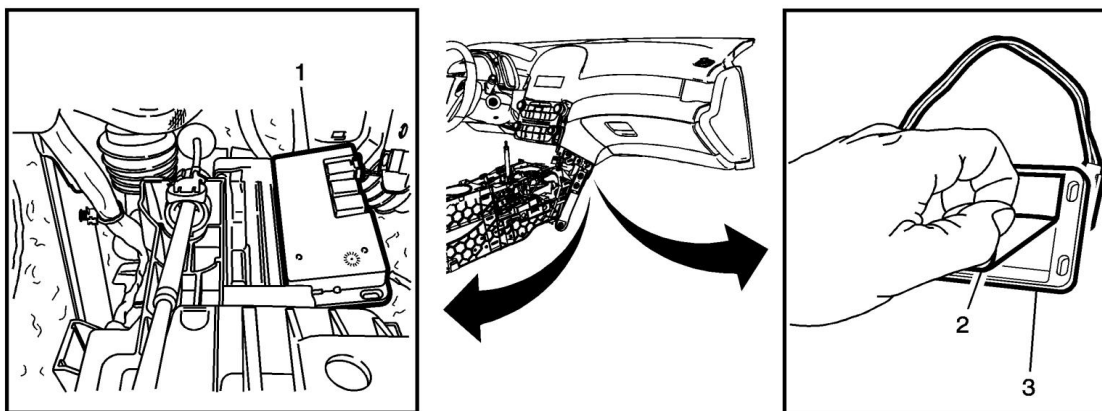
### Install Lighting Control Module

1. Finish routing the following harness connectors toward the right side metal instrument panel support leg:
  - Power/ground harness
  - Cupholder lamp harness (if installed)
  - Switch harness
  - Footwell lamp harness
2. Connect all connectors to the lighting control module. Reconnect console harness to instrument panel harness.
3. Connect negative battery cable and place ignition on (engine off) position. Test the system functionality before mounting the control module.

**Note:** Refer to owner's manual card.



4. Inspect and clean the flat surface of connector bracket (1) using a clean cloth and alcohol.



5. Remove adhesive liner (2) from the control module (3).
6. Align the module (1) against the connector rib and press firmly on the module while supporting the bracket underneath.
7. Tuck excess wire in console and secure with foam tape and reinstall right instrument panel brace.

#### Reassemble vehicle

1. Reinstall the front floor console assembly and previously removed trim components.
2. Connect negative battery cable.
3. Enable the SIR system. Refer to Vehicle Service Manual.
4. Test the LED lighting system per owner's manual instructions.