

# Off Road Lamp Package Installation

## Installation Instructions Part Number

86292138

### Kit Contents

QTY	Description
4	Wheel Liner Lamp
1	Harness Assembly
1	Front Wheel Liner Template - LH
1	Front Wheel Liner Template - RH
1	Rear Wheel Liner Template - LH (SUV)
1	Rear Wheel Liner Template - RH (SUV)
1	Rear Wheel Liner Template - LH (Pickup)
1	Rear Wheel Liner Template - RH (Pickup)
1	Installation Instructions

### Tools Required

#### Drill

5.5mm (7/32") drill bit

6mm (1/4") drill bit

16mm (5/8") drill bit

### Preliminary Procedures

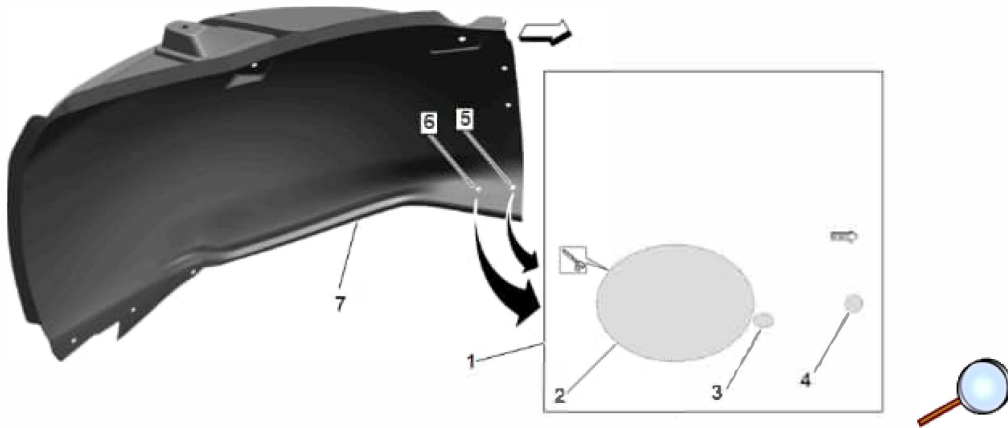
**Note:** This accessory requires the installation of Spot Lamp Kit and must be purchased separately.

1. Install the Spot Lamp Kit, if not equipped. Refer to [Spot Lamp Kit Installation](#) in Vehicle Accessory Installation Manual.
2. Read all instructions before performing procedure.
3. Inspect KIT to verify all parts are included.

### Procedure

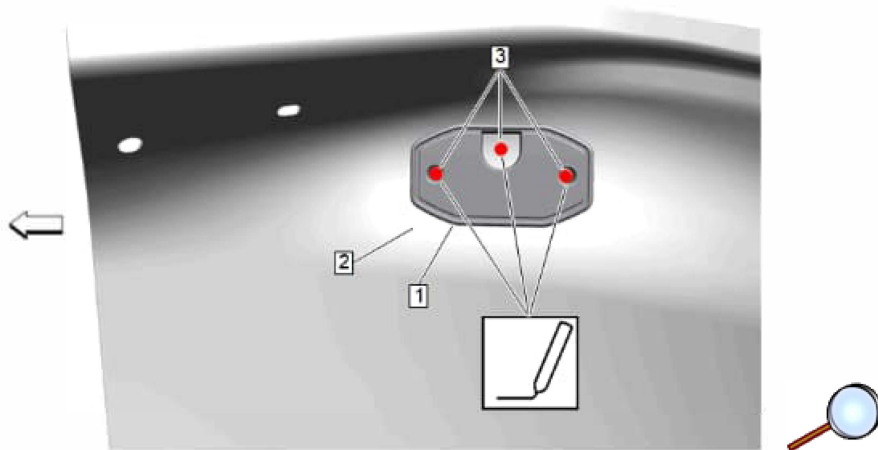
1. Remove the front wheelhouse rear liner, left and right sides. Refer to [Front Wheelhouse Rear Liner Replacement](#) in Vehicle Service Installation Manual.
2. Remove the rear wheelhouse liner, left and right sides. Refer to [Rear Wheelhouse Liner Replacement](#) in Vehicle Service Manual.

### 3. Front Wheelhouse Rear Liner Lamp Install:

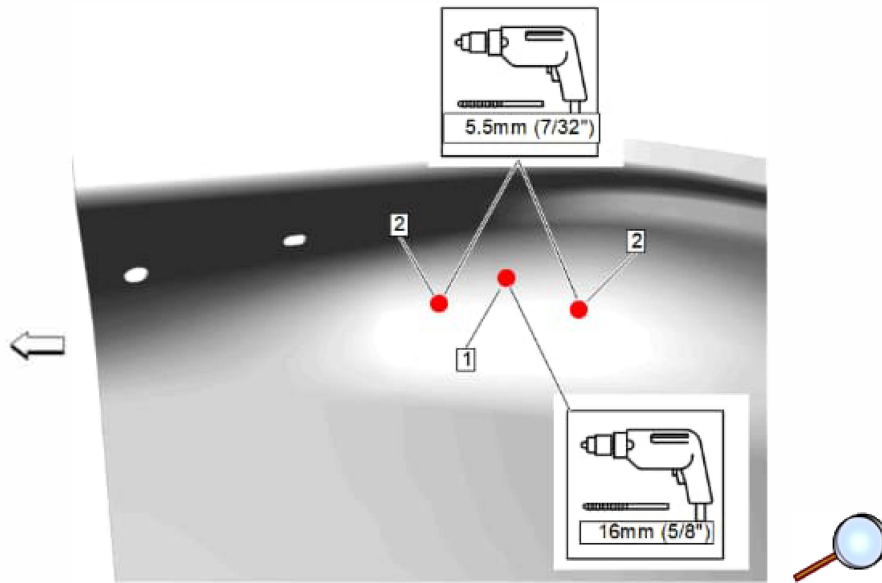


**Note:** Left hand side shown, right hand side similar.

- 3.1. Select the appropriate template. Cut out and remove the shaded area (2) on the template (1).
- 3.2. On the underside of left front wheelhouse rear liner (7), place the appropriate template (1) by lining template location (4) to the hole (5) on the liner and the other template location (3) to the other hole (6) on the liner.



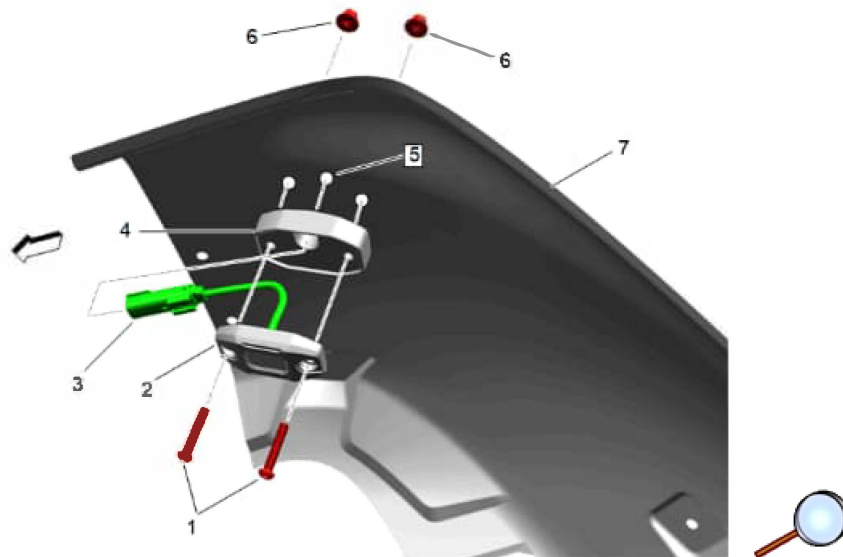
- 3.3. While holding the template in position, place the rubber lamp mounting pad (1) to the inside of the wheelhouse liner (2) inside the previously cut out area of template. The mounting pad (1) should align with the curvature of the liner. Mark the three holes (3) of mounting pad with paint pen in the center of openings. Remove the mounting pad and template.



**Caution:** Always check scale, size and position of all templates before drilling. Failing to do so may cause damage to the vehicle, misalignment of components or the inability to install the accessory.

3.4. Using the outer paint pen marks (2) on the inside of liner, drill a hole using a 5.5mm (7/32") drill bit.

3.5. Using the center paint pen mark (1) on the inside of liner, drill a hole using a 16mm (5/8") drill bit.



3.6. Align the lamp (2) to the pad (4) while routing the harness (3) through center hole (5) of liner (7).

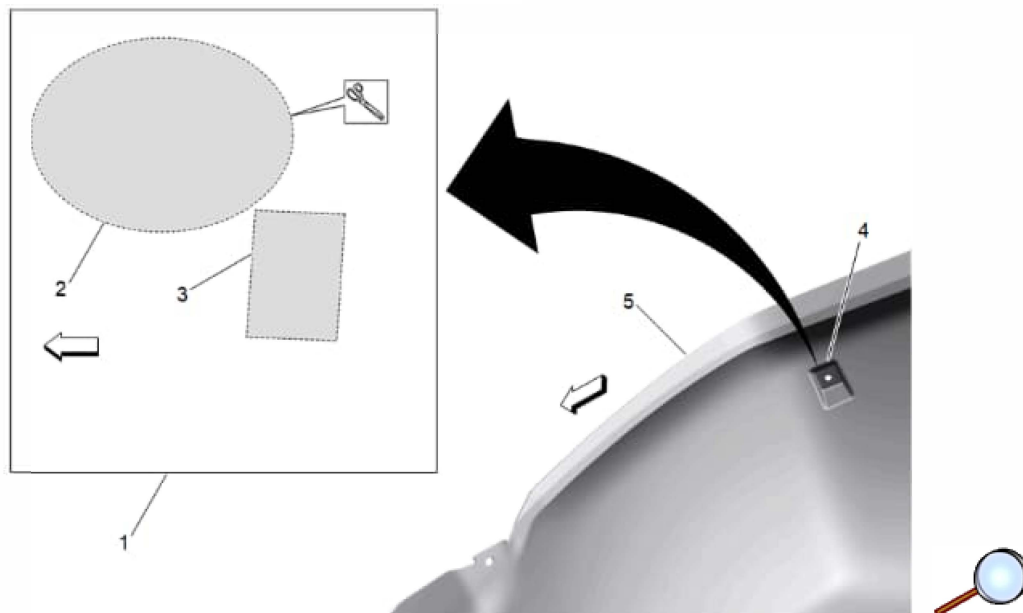
**Caution:** Use the correct fastener in the correct location. Replacement fasteners must be the correct part number for that application. Fasteners requiring replacement or fasteners requiring the use of thread locking compound or sealant are identified in the service procedure. Do not use paints, lubricants, or corrosion inhibitors on fasteners or fastener joint surfaces unless specified. These coatings affect fastener torque and joint clamping force and may damage the fastener. Use the correct tightening sequence and specifications when installing fasteners in order to avoid damage to parts and systems.

**Note:** Do not over torque the nuts.

3.7. Secure the lamp to the liner (7) with the provided bolts (1) and nuts (6). Tighten the nuts to 2 N.m (1.5 lb ft).

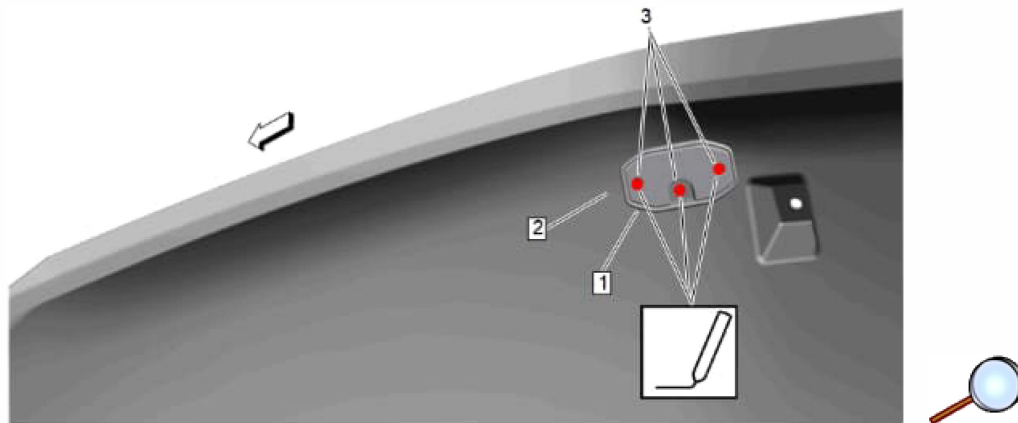
3.8. Repeat steps 3.1. to 3.7. for opposite side.

**Note:** If working on Pickup version proceed to step 5.  
4. Rear Wheelhouse Liner Lamp Install - SUV:

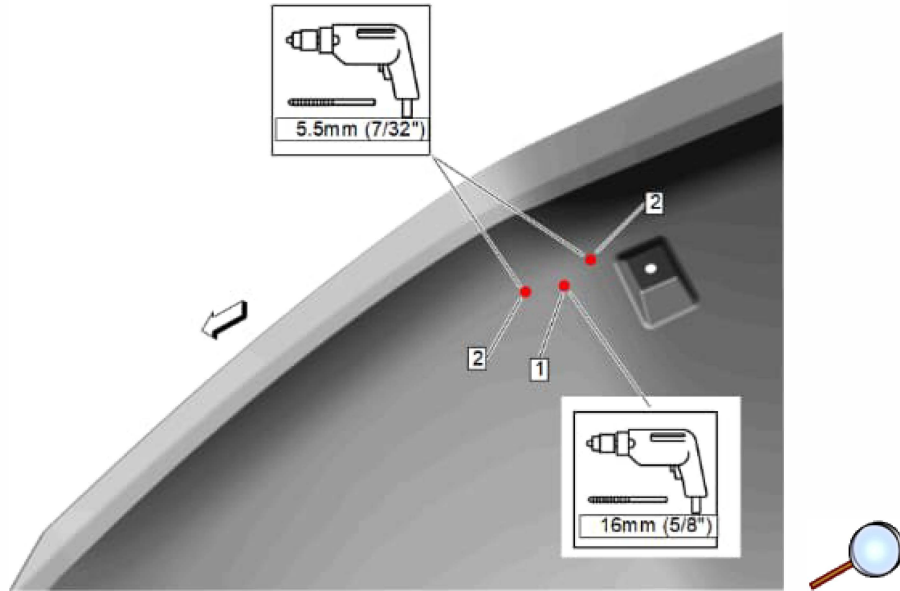


**Note:** Left hand side shown, right hand side similar.

- 4.1. Select the appropriate template. Cut out and remove the shaded area (2) on the template (1).
- 4.2. On the inside left rear wheelhouse liner (5), place the appropriate template (1) by lining template location (3) to the locator (4) on the liner.



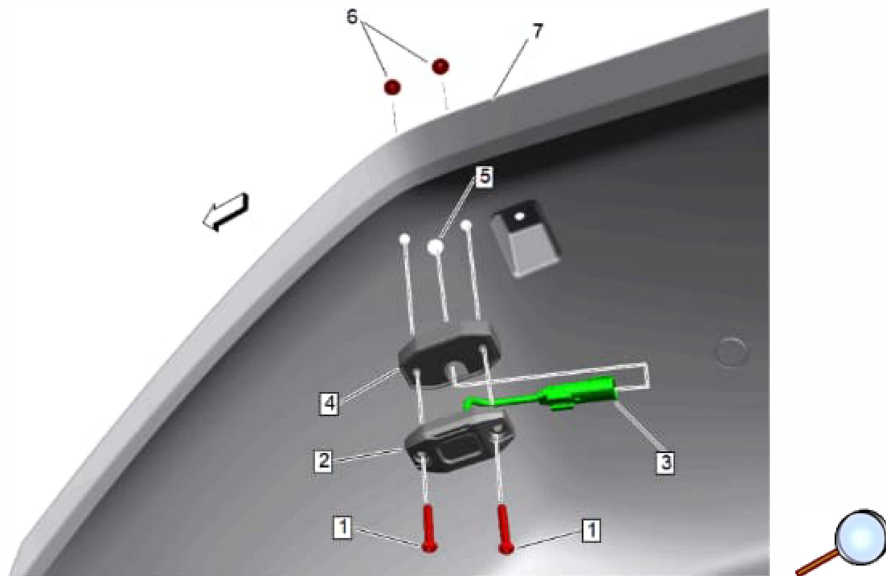
- 4.3. While holding the template in position, place the rubber lamp mounting pad (1) to the inside of the wheelhouse liner (2) inside the previously cut out area of template. The mounting pad (1) should align with the curvature of the liner. Mark the three holes (3) of mounting pad with paint pen in the center of openings. Remove the mounting pad and template.



**Caution:** Always check scale, size and position of all templates before drilling. Failing to do so may cause damage to the vehicle, misalignment of components or the inability to install the accessory.

4.4. Using the outer paint pen marks (2) on the inside of liner, drill a hole using a 5.5mm (7/32") drill bit.

4.5. Using the center paint pen mark (1) on the inside of liner, drill a hole using a 16mm (5/8") drill bit.



4.6. Align the lamp (2) to the pad (4) while routing the harness (3) through center hole (5) of liner (7).

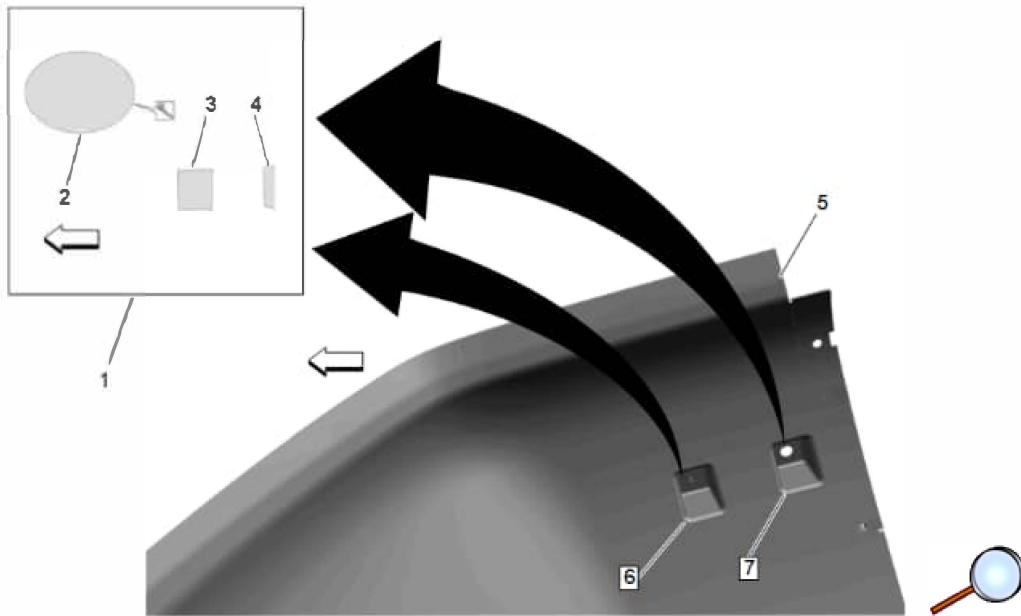
**Caution:** Use the correct fastener in the correct location. Replacement fasteners must be the correct part number for that application. Fasteners requiring replacement or fasteners requiring the use of thread locking compound or sealant are identified in the service procedure. Do not use paints, lubricants, or corrosion inhibitors on fasteners or fastener joint surfaces unless specified. These coatings affect fastener torque and joint clamping force and may damage the fastener. Use the correct tightening sequence and specifications when installing fasteners in order to avoid damage to parts and systems.

**Note:** Do not over torque the nuts.

4.7. Secure the lamp to the liner (7) with the provided bolts (1) and nuts (6). Tighten the nuts to 2 N.m (1.5 lb ft).

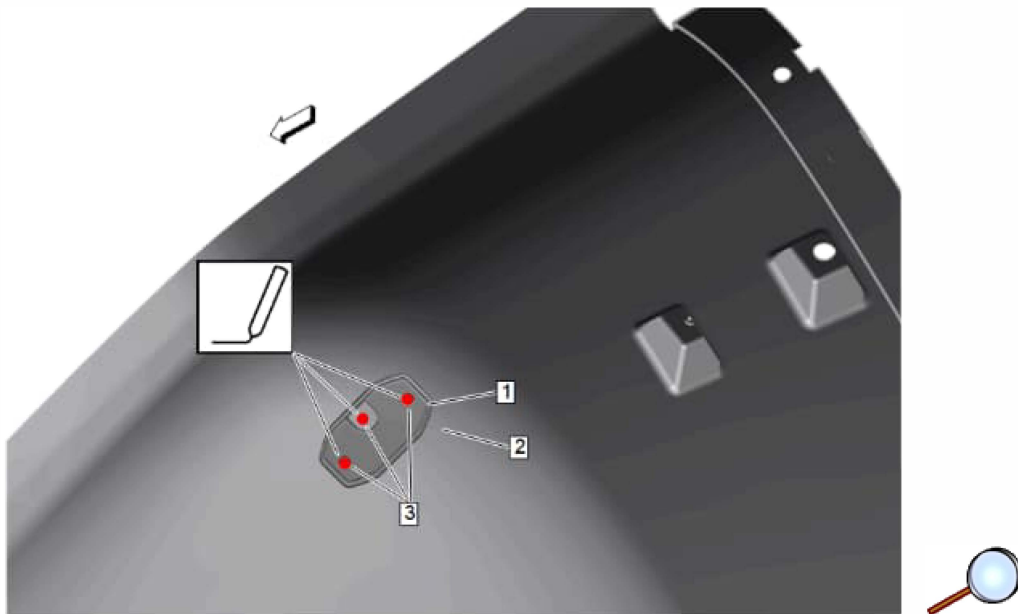
4.8. Repeat steps 4.1. to 4.7. for opposite side. Continue to step 6.

## 5. Rear Wheelhouse Liner Lamp Install - Pickup:

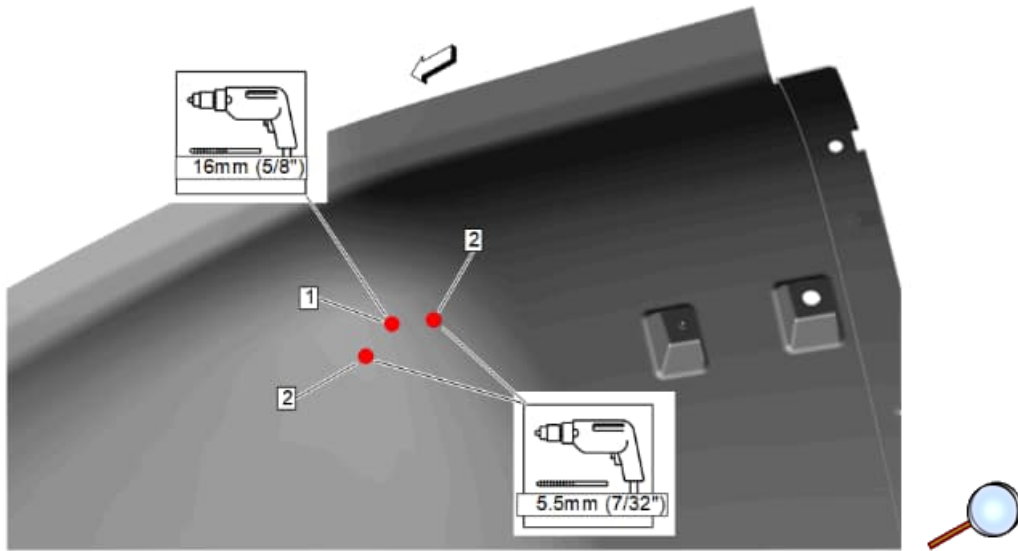


**Note:** Left hand side shown, right hand side similar.

- 5.1. Select the appropriate template. Cut out and remove the shaded area (2) on the template (1).
- 5.2. On the inside left rear wheelhouse liner (5), place the appropriate template (1) by lining template location (3) to the locator (6) and template location (4) to the locator (7) of the liner.



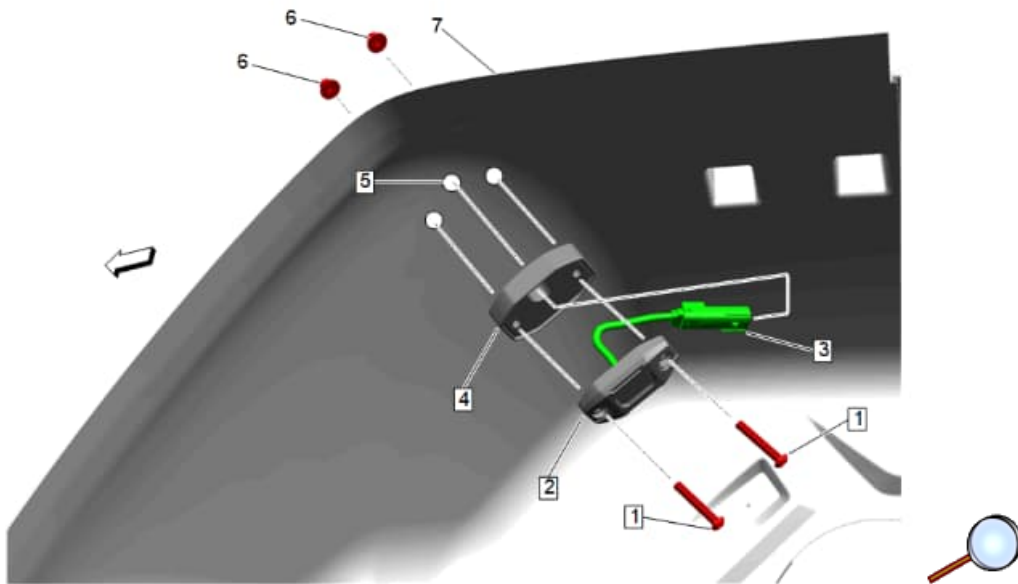
- 5.3. While holding the template in position, place the rubber lamp mounting pad (1) to the inside of the wheelhouse liner (2) inside the previously cut out area of template. The mounting pad (1) should align with the curvature of the liner. Mark the three holes (3) of mounting pad with paint pen in the center of openings. Remove the mounting pad and template.



**Caution:** Always check scale, size and position of all templates before drilling. Failing to do so may cause damage to the vehicle, misalignment of components or the inability to install the accessory.

5.4. Using the outer paint pen marks (2) on the inside of liner, drill a hole using a 5.5mm (7/32") drill bit.

5.5. Using the center paint pen mark (1) on the inside of liner, drill a hole using a 16mm (5/8") drill bit.



5.6. Align the lamp (2) to the pad (4) while routing the harness (3) through center hole (5) of liner (7).

**Caution:** Use the correct fastener in the correct location. Replacement fasteners must be the correct part number for that application. Fasteners requiring replacement or fasteners requiring the use of thread locking compound or sealant are identified in the service procedure. Do not use paints, lubricants, or corrosion inhibitors on fasteners or fastener joint surfaces unless specified. These coatings affect fastener torque and joint clamping force and may damage the fastener. Use the correct tightening sequence and specifications when installing fasteners in order to avoid damage to parts and systems.

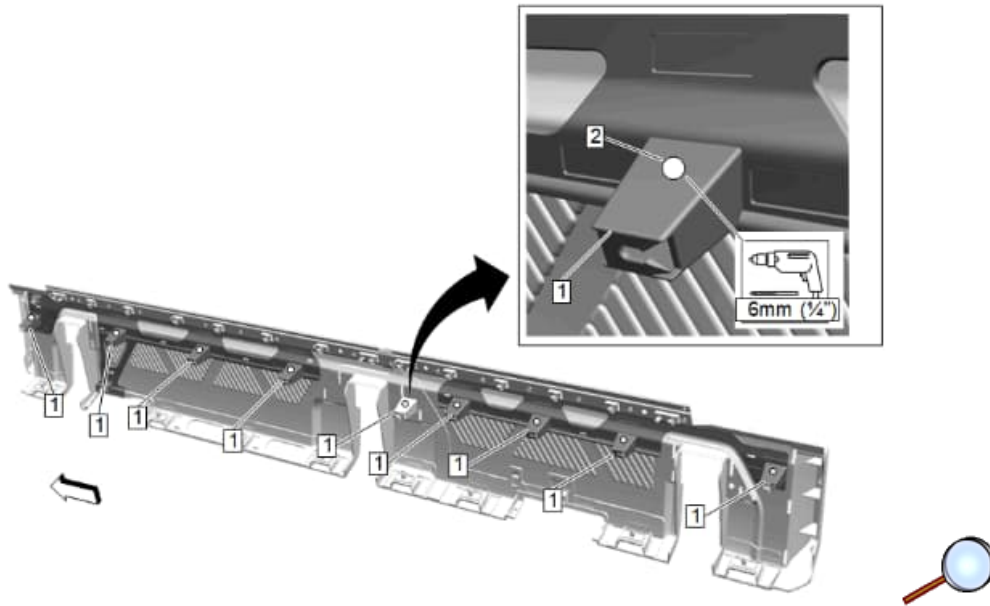
**Note:** Do not over torque the nuts.

5.7. Secure the lamp to the liner (7) with the provided bolts (1) and nuts (6). Tighten the nuts to 2 N.m (1.5 lb ft).

5.8. Repeat steps 5.1. to 5.7. for opposite side. Continue to step 6.

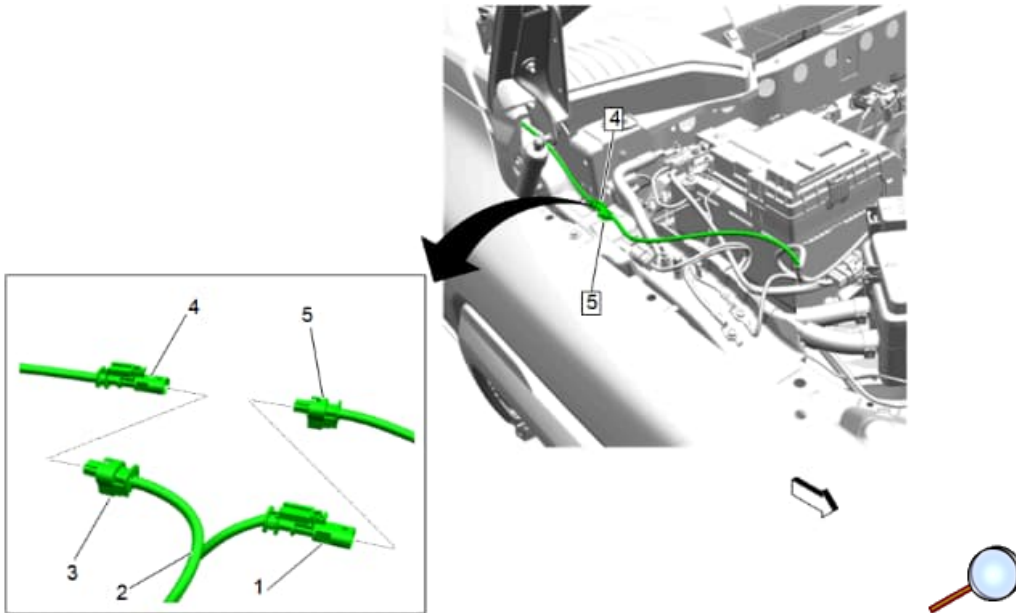
6. Remove the right front rocker panel molding. Refer to [Rocker Panel Front Molding Replacement](#) in Vehicle Service Manual.

7. Remove the right rear rocker panel molding. Refer to [Rocker Panel Rear Molding Replacement](#) in Vehicle Service Manual.



**Note:** Replace broken clips on rocker panel moldings as necessary.

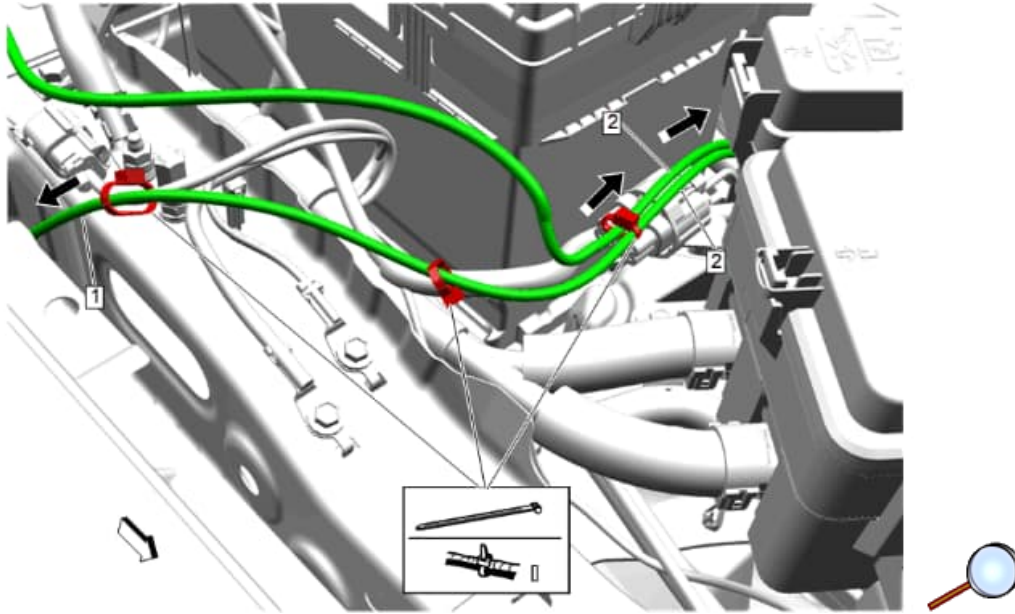
8. Using a 6mm (1/4") drill, drill holes (2) into the upper areas (1) of the front and rear rocker panel moldings. Place rocker panel moldings aside.
9. Remove the front trim finish compartment. Refer to [Front Trim Finish Compartment Replacement](#) in Vehicle Service Manual.



10. On the passenger side of the vehicle, disconnect the spot lamp connector (4) from the power harness connector (5).

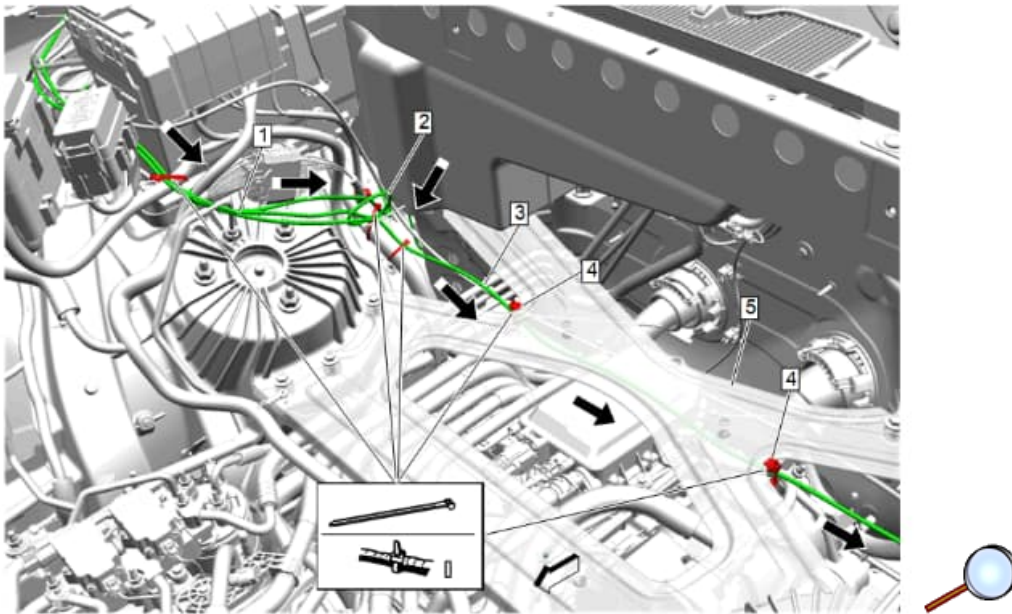
**Note:** Make sure harness does not come in contact with any sharp edges or moving parts.

11. Locate the harness provided in kit (2) and connect one end of connector (3) to the spot lamp connector (4) and the other connector (1) to the power harness connector (5). Make sure connectors are fully seated.



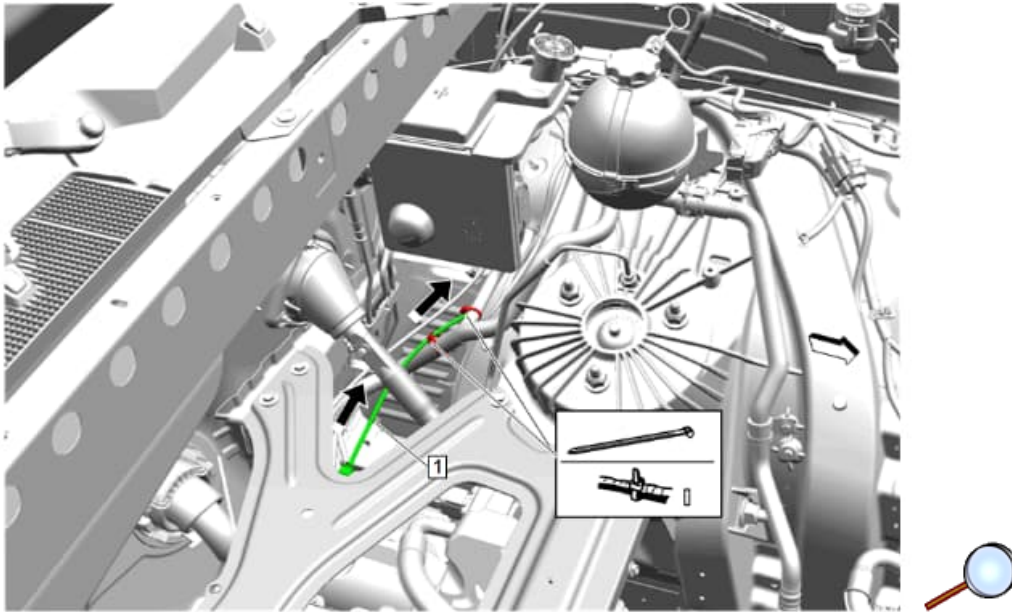
**Note:** Make sure harness does not come in contact with any sharp edges or moving parts.

12. Begin routing the accessory harness (2) from the spot lamp along the existing harness between the battery and fuse block. Route the shorter branch of harness (1) towards the passenger front wheel well area. Secure accessory harness to existing harness with supplied tie straps in the areas shown. Trim excess of tie straps.



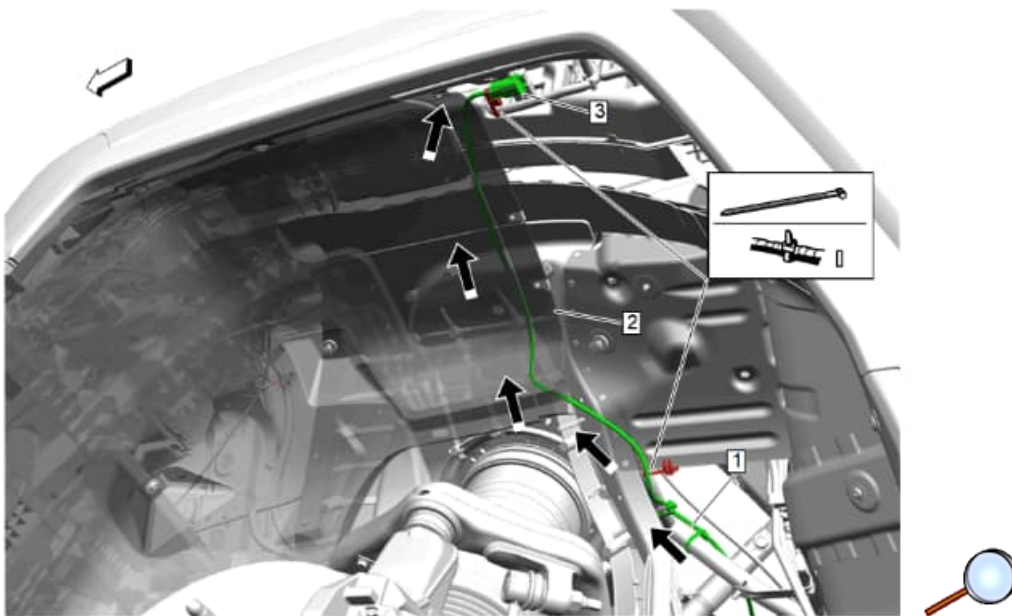
**Note:** Make sure harness does not come in contact with any sharp edges or moving parts.

13. Continue routing accessory harness (1) around the battery. Route the longer branch of accessory harness (2) below the battery towards the passenger side wheel well area. Route the next shorter branch of accessory harness (3) below the support brace (5) towards the driver side wheel well area. Secure the harness (3) to the support brace with supplied edge biter (4) tie straps. Secure harness areas (1), (2) and (3) to existing harness with supplied tie straps in the areas shown. Trim excess off tie straps.



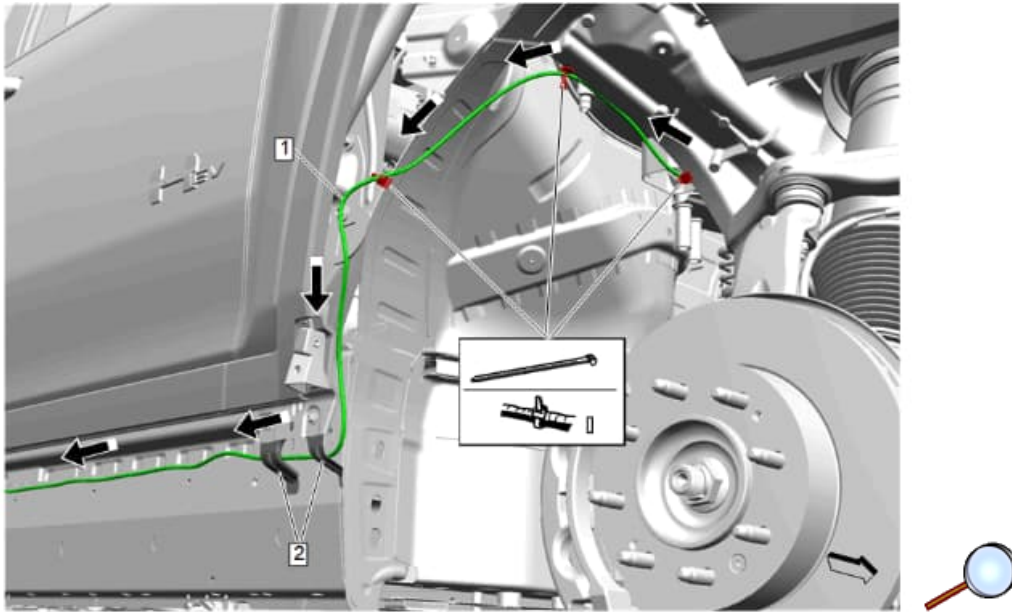
**Note:** Make sure harness does not come in contact with any sharp edges or moving parts.

14. Continue routing shorter branch of harness (1) from support brace below steering shaft along exist harness towards driver side wheel well. Secure accessory harness to existing harness with supplied tie straps in areas shown. Trim excess off tie straps.



**Note:** Make sure harness does not come in contact with any sharp edges or moving parts.

15. Continue to route the accessory harness (1) into the driver side wheel well area. Route the harness with connector (3) above the front section of wheel house panel (2). Secure the harness with supplied tie straps in the areas shown. Trim excess off tie straps.

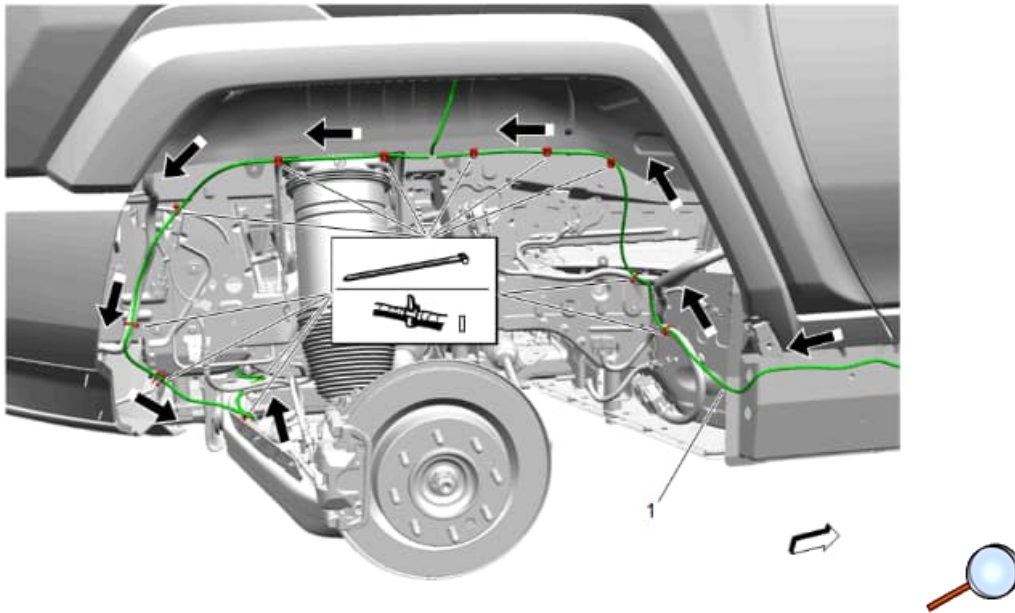


**Note:** Make sure harness does not come in contact with any sharp edges or moving parts.

16. Move onto the passenger side and continue to route the longer branch of accessory harness (1) into the passenger side wheel well area. Route the harness through the lower fender loops (2) along the rocker panel towards the rear of the vehicle. Secure the harness with supplied tie straps in the areas shown of the front wheel well area. Trim excess off tie straps.

**Note:** If working on Pickup version proceed to step 18.

17. **Rocker Panel Harness Routing - SUV:**

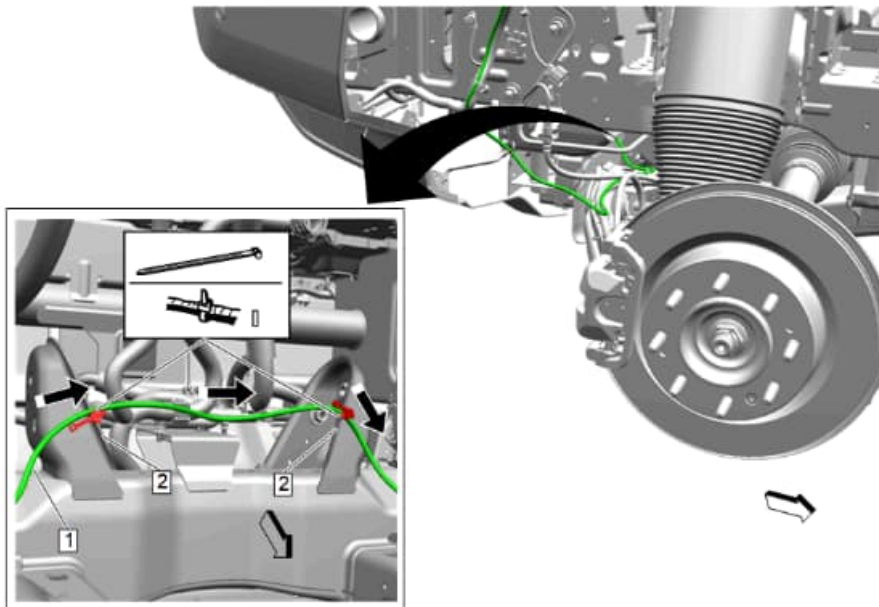


**Note:** Make sure harness does not come in contact with any sharp edges or moving parts.

- 17.1. Continue to route the harness (1) along the passenger side rocker panel making sure to leave some extra slack in harness to attach harness to rocker panels in later steps.

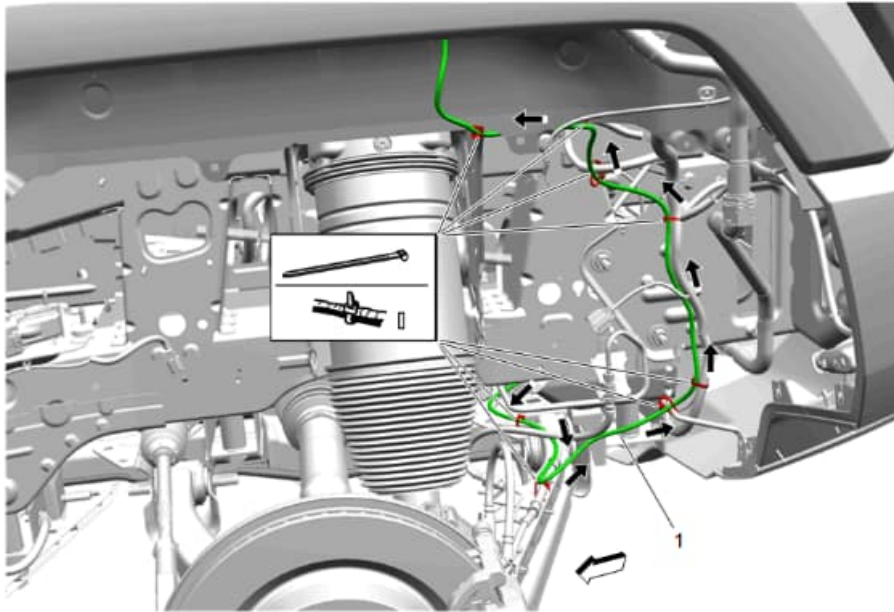
**Note:** Make sure harness does not come in contact with any sharp edges or moving parts.

- 17.2. Continue routing harness (1) along existing harness, up and along the rear wheel well area then towards the driver side of vehicle. Secure the harness with supplied tie straps in the areas shown of the rear wheel well area. Trim excess off tie straps.



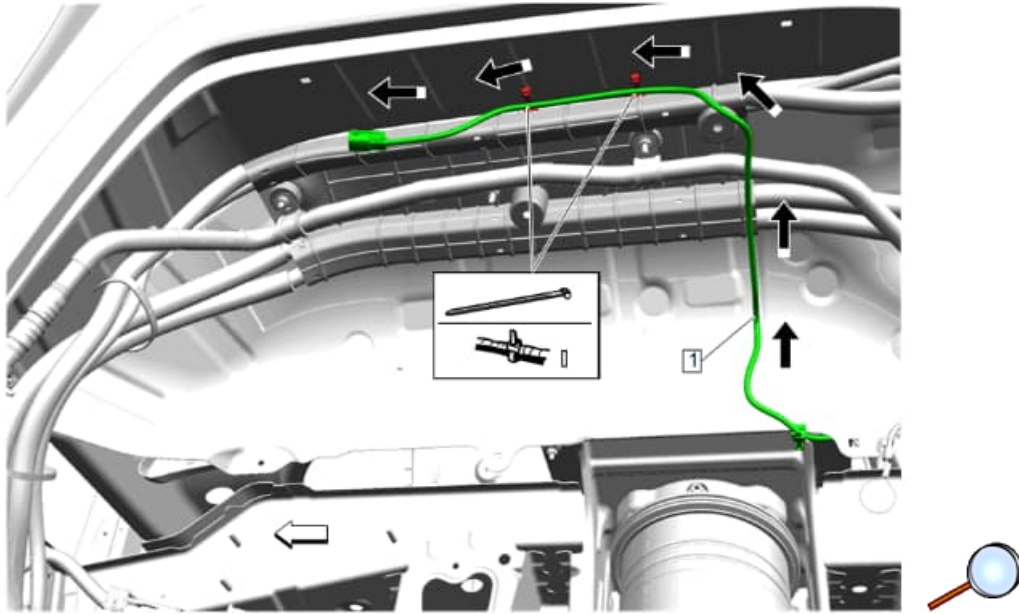
**Note:** Make sure harness does not come in contact with any sharp edges or moving parts.

- 17.3. Continue to route the harness (1) from the passenger side toward the drivers side, securing the harness (1) to the rear suspension cross mount (2) with supplied tie straps. Trim excess off tie straps.



**Note:** Make sure harness does not come in contact with any sharp edges or moving parts.

- 17.4. Continue to route the harness (1) from the rear suspension cross mount toward the drivers side, routing the harness along the existing harness up towards the upper wheel well area. Secure the harness with supplied tie straps in the areas shown of the rear wheel well area. Trim excess off tie straps.

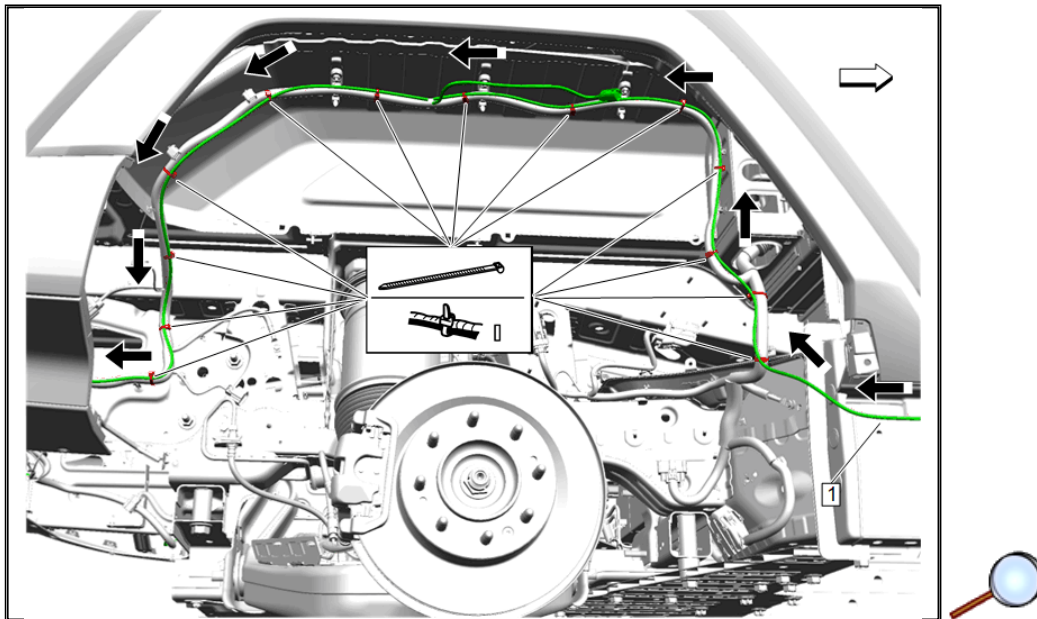


**Note:** Make sure harness does not come in contact with any sharp edges or moving parts.

17.5. Continue routing the harness (1) into the upper wheel well area. Secure the harness with supplied tie straps in the areas shown of the rear wheel well area. Trim excess off tie straps.

17.6. Continue to step 19.

#### 18. Rocker Panel Harness Routing - Pickup:

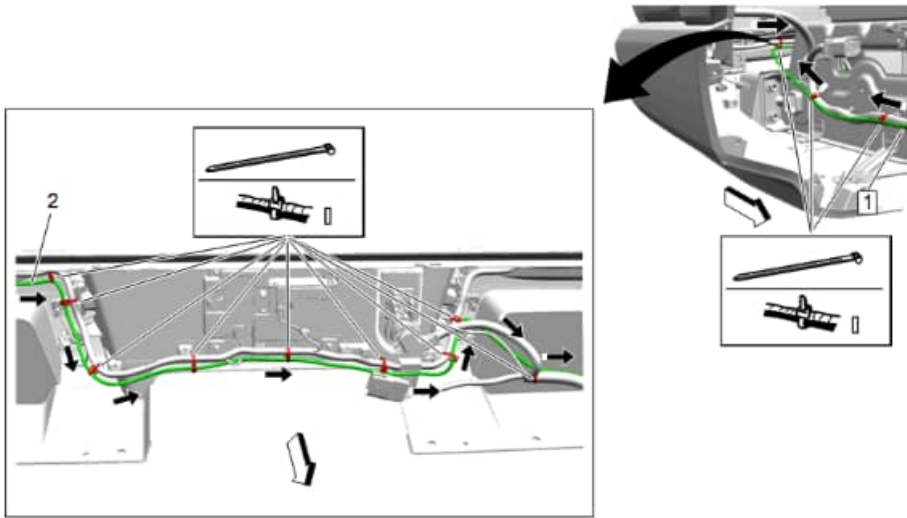


**Note:** Make sure harness does not come in contact with any sharp edges or moving parts.

18.1. Continue to route the harness (1) along the passenger side rocker panel making sure to leave some extra slack in harness to attach harness to rocker panels in later steps.

**Note:** Make sure harness does not come in contact with any sharp edges or moving parts.

18.2. Continue routing harness (1) along existing harness, up and along the rear wheel well area then towards the driver side of vehicle. Secure the harness with supplied tie straps in the areas shown of the rear wheel well area. Trim excess off tie straps.

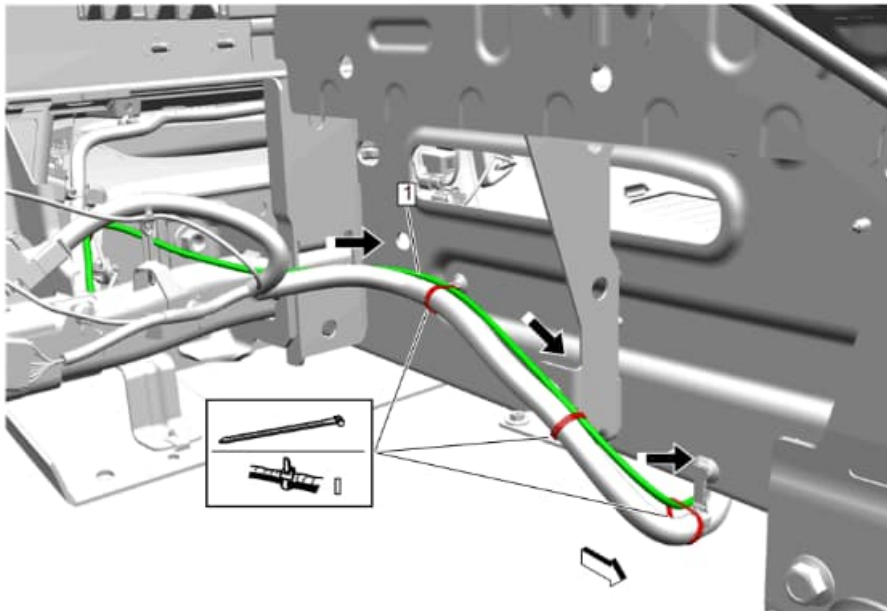


**Note:** Make sure harness does not come in contact with any sharp edges or moving parts.

18.3. Continue to route the harness (1) from the passenger side toward the drivers side along the trailer hitch harness. Secure the harness with supplied tie straps in the areas shown of the lower rear wheel well area. Trim excess off tie straps.

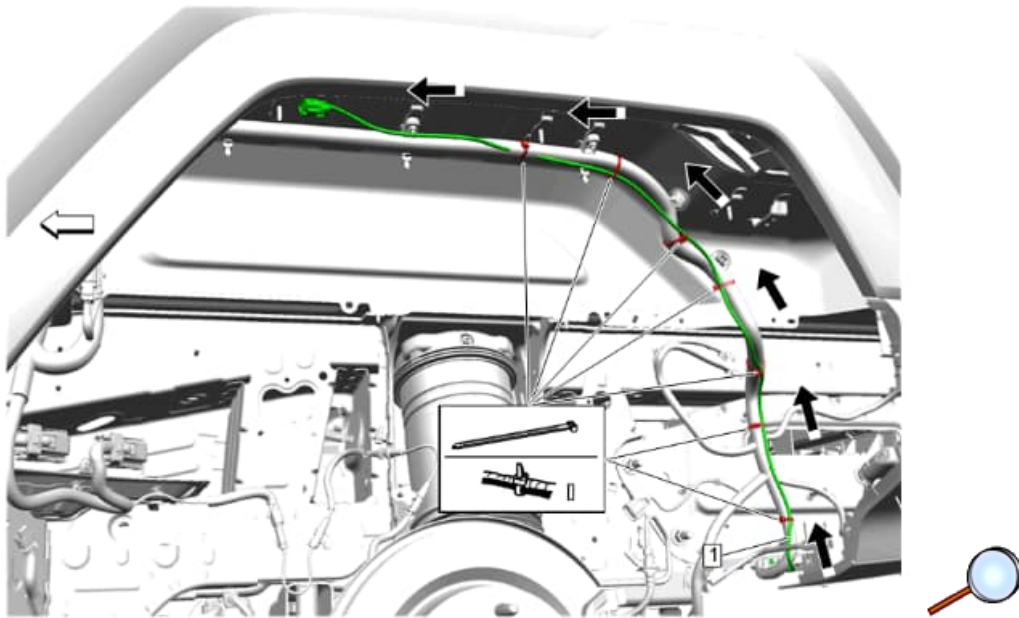
**Note:** Make sure harness does not come in contact with any sharp edges or moving parts.

18.4. Continue to route the harness (2) along the trailer hitch harness towards the driver side. Secure the harness with supplied tie straps in the areas shown. Trim excess off tie straps.



**Note:** Make sure harness does not come in contact with any sharp edges or moving parts.

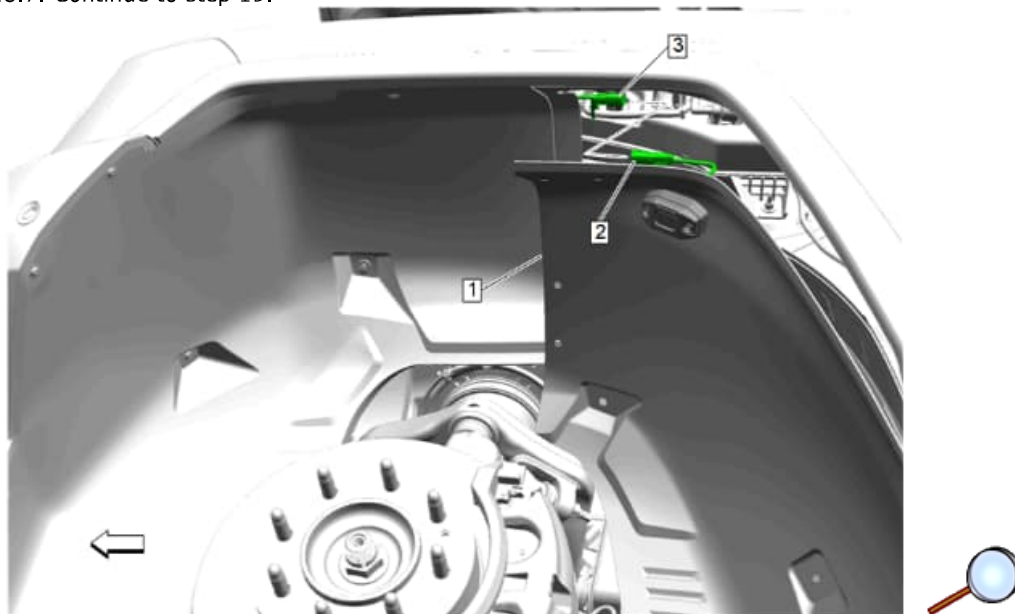
18.5. Continue routing the harness (1) along the existing harness towards the drivers wheel well area. Secure the harness with supplied tie straps in the areas shown. Trim excess off tie straps.



**Note:** Make sure harness does not come in contact with any sharp edges or moving parts.

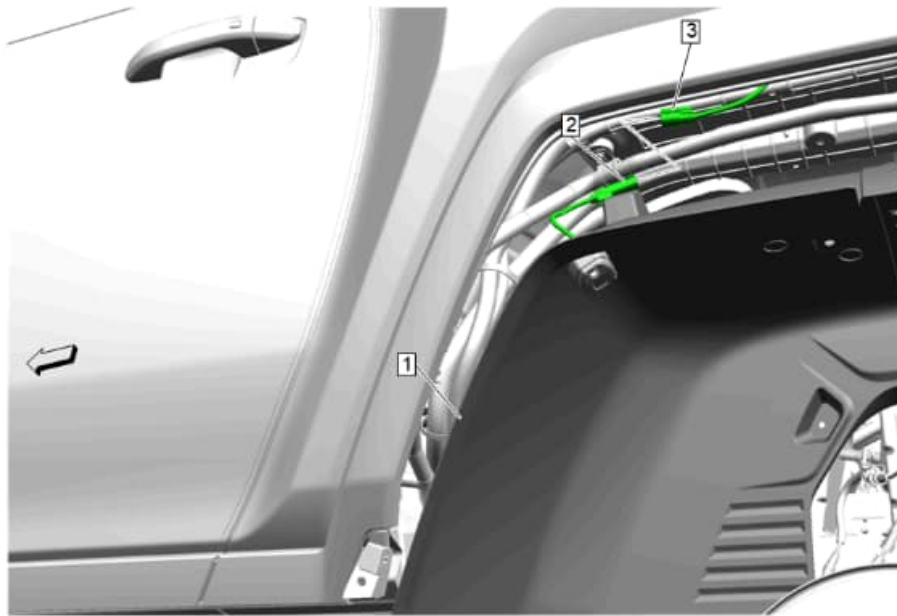
18.6. Continue routing the harness (1) into the upper wheel well area along the existing harness. Secure the harness with supplied tie straps in the areas shown. Trim excess off tie straps.

18.7. Continue to step 19.



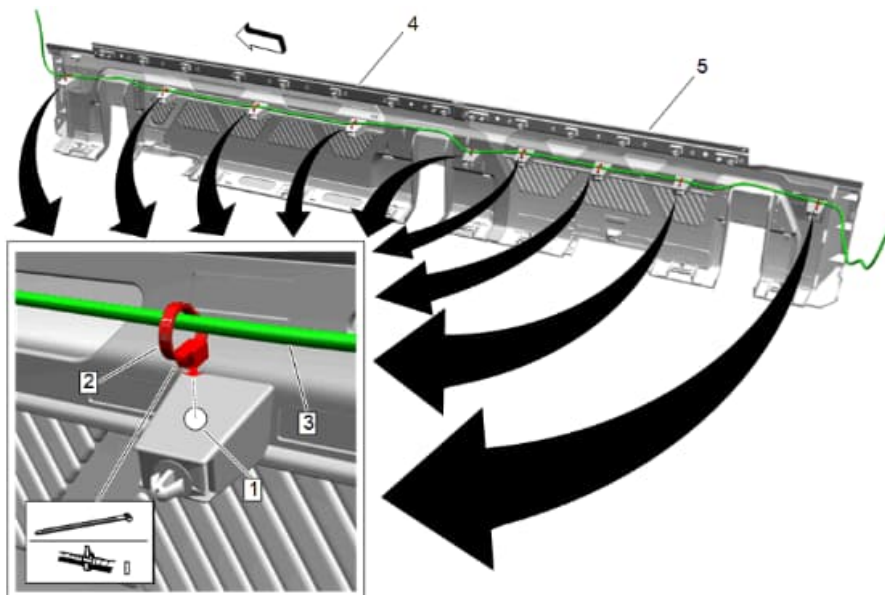
**Note:** Driver side shown, passenger side similar.

19. Temporarily position the driver front rear wheel house panel (1) to the vehicle and connect the lamp connector (2) to the lamp harness connector (3). Make sure connectors are fully engaged. Repeat step for opposite side.



**Note:** Driver side shown, passenger side similar.

20. Temporarily position the driver rear wheel house panel (1) to the vehicle and connect the lamp connector (2) to the lamp harness connector (3). Make sure connectors are fully engaged. Repeat step for opposite side.
21. Verify and confirm operation of lamps on virtual switches.



**Note:** Make sure harness does not come in contact with any sharp edges or moving parts.

22. With the aid of an assistant, position the front (4) and rear (5) passenger side rocker panel moldings to the vehicle and attach the accessory harness (3) to the previously drilled holes (1) with supplied fir tree tie straps (2). Trim excess off tie straps.
23. Reinstall the right front rocker panel molding. Refer to [Rocker Panel Front Molding Replacement](#) in Vehicle Service Manual.
24. Reinstall the right rear rocker panel molding. Refer to [Rocker Panel Rear Molding Replacement](#) in Vehicle Service Manual.
25. Reinstall the front wheelhouse rear liner, left and right sides. Refer to [Front Wheelhouse Rear Liner Replacement](#) in Vehicle Service Installation Manual.
26. Reinstall the rear wheelhouse liner, left and right sides. Refer to [Rear Wheelhouse Liner Replacement](#) in Vehicle Service Manual.
27. Reinstall the front trim finish compartment. Refer to [Front Trim Finish Compartment Replacement](#) in Vehicle Service Manual.