

Part Number: PT942-02140

Kit Contents

Item #	Quantity Req.	Description
1	1	Illuminated Scuff plate, Front Right Hand
2	1	Illuminated Scuff plate, Front Left Hand
3	1	Door Scuff plate, Rear Right Hand
4	1	Door Scuff plate, Rear Left Hand
5	1	Hardware Kit

Hardware Bag Contents

Item #	Quantity Req.	Description
1	2	T-Tap Connectors
2	23	10" Wire Ties
3	4	Tape, Foam 25 x 50 mm
4	2	Tape, Foam 65 x 50 mm
5	1	LED Light Engine

Additional Items Required For Installation

Item #	Quantity Req.	Description
1		
2		
3		

Conflicts

Door Sill Enhancements, PT228-02140

Recommended Sequence of Application

Item #	Accessory
1	
2	
3	

*Mandatory

Vehicle Service Parts (may be required for reassembly)

Item #	Quantity Req.	Description
1		
2		
3		

General Applicability

All 2017 and newer Corolla models


Note


For left hand drive vehicles:
Left side = Driver side
Right side = Passenger side


Recommended Tools


Personal & Vehicle Protection	Notes
Safety Glasses	
Safety Gloves	Optional
Blankets	
Part Boxes	
Special Tools	Notes
Nylon Panel Removal Tool	
Installation Tools	Notes
Wrench	10mm
Pliers	For T-Taps
Side Cutters	For Wire Ties
Torque Wrench	5.4N-m (48 lbf-in)
Clean Cloth	For cleaning pinch weld
Screwdriver	#2 Phillips Head
Hard Rubber Hand Roller	Press pad 1" to 3" wide
Special Chemicals	Notes
Cleaner	Mild, water based, solvent-free, all-purpose


Legend


 **STOP:** Damage to the vehicle may occur. Do not proceed until process has been complied with.

 **OPERATOR SAFETY:** Use caution to avoid risk of injury.

 **CAUTION:** A process that must be carefully observed in order to reduce the risk of damage to the accessory/vehicle and to ensure a quality installation.

 **TOOLS & EQUIPMENT:** Used in Figures calls out the specific tools and equipment recommended for this process.

 **REVISION MARK:** This mark highlights a change in installation with respect to previous issue.

 **SAFETY TORQUE:** This mark indicates that torque is related to safety.



Care must be taken when installing this accessory to ensure damage does not occur to the vehicle. The installation of this accessory should follow approved guidelines to ensure a quality installation.

These guidelines can be found in the "Accessory Installation Practices" document.

This document covers such items as:-

- Vehicle Protection (use of covers and blankets, cleaning chemicals, etc.).
- Safety (eye protection, rechecking torque procedure, etc.).
- Vehicle Disassembly/Reassembly (panel removal, part storage, etc.).
- Electrical Component Disassembly/Reassembly (battery disconnection, connector removal, etc.).

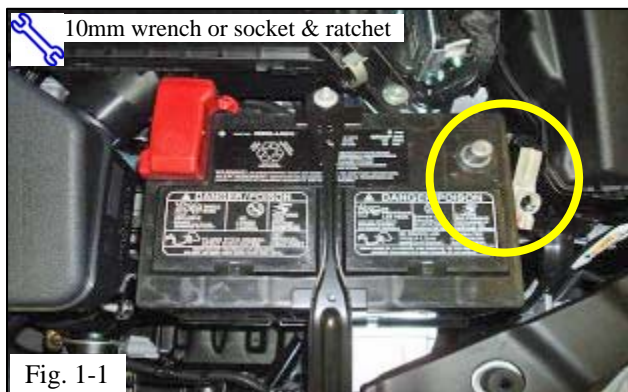
Please see your Toyota dealer for a copy of this document.

1. Prepare for the Installation.

- (a) Inspect all kit components and check for damage or missing parts.
- (b) Locate and remove the negative battery terminal.

(1) Use a 10mm wrench or socket to remove the negative battery terminal and set it aside (Fig. 1-1).

- +** (2) Do not touch the positive terminal with any part of the tool when removing cable.



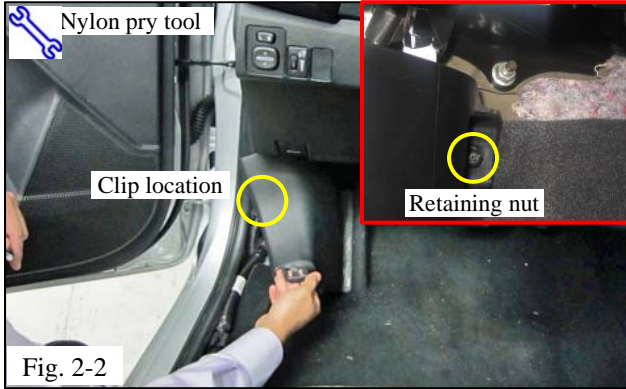
2. Disassemble the Vehicle.

If present, remove any existing door sill covers using the standard process for removing double sided taped-on parts/badges.

⚠ NOTE: Unless otherwise specified, the procedure for the driver and passenger sides is the same.

(a) Disengage the 2 claws on the inside bottom of the scuff plate to remove the front left and front right inner door scuff plates (Fig. 2-1).

⚠ NOTE: If necessary, use a nylon pry tool to disengage the 4 clips.



(b) Remove the front left and front right cowl side covers (Fig. 2-2).

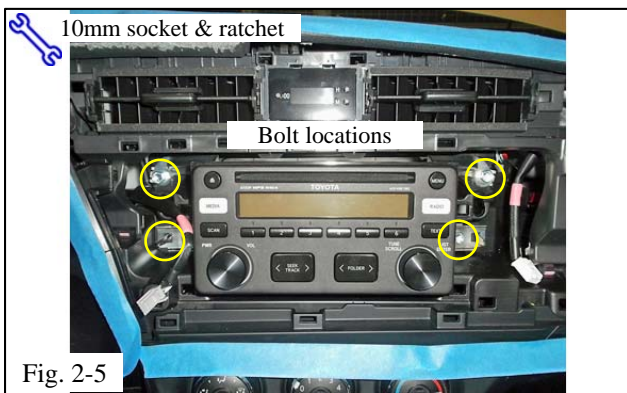
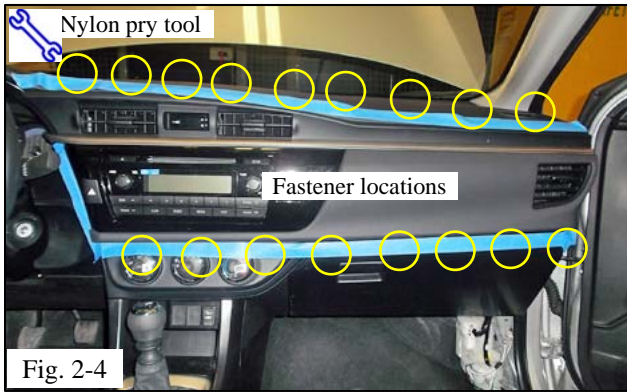
(1) Remove the retaining nut.

(2) Pull the cover straight away from the body to detach 1 clip in the direction of the arrows. Use a nylon pry tool if necessary.

(3) If a clip is stuck to the body after removal, remove the clip and reattach it to the cowl cover.



(c) Detach the front left and front right weather seal from the bottom pinch weld (Fig. 2-3).



(d) Remove the passenger side instrument panel (Fig. 2-4).

- (1) Apply protective tape.
- (2) Use a panel removal tool at the 26 clip locations.
- (3) Disconnect the connectors for the passenger side airbag.

(e) Remove the radio.

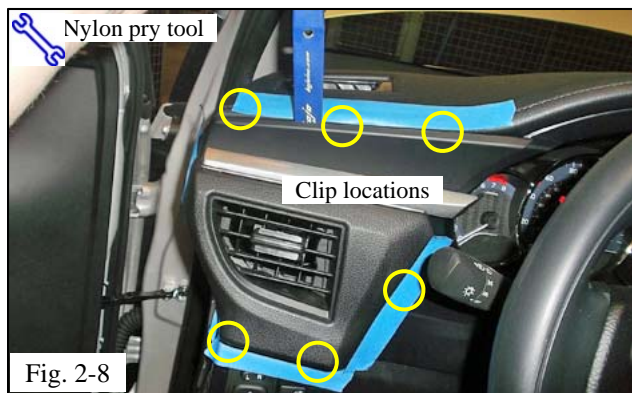
- (1) Remove the 4 bolts (Fig. 2-5).
- (2) Remove the radio and disconnect all connectors.

(f) Remove the glove box.

- (1) Press the retaining clips together to detach the glove box damper (Fig. 2-6).

- (2) Press the sides of the glove box inward and release the glove box stops (Fig. 2-7).

- (3) Pull the glove box off of the hinges.



(g) Remove the driver side air vent.

- (1) Apply protective tape.
- (2) Use a nylon pry tool to remove the 6 clips (Fig. 2-8).

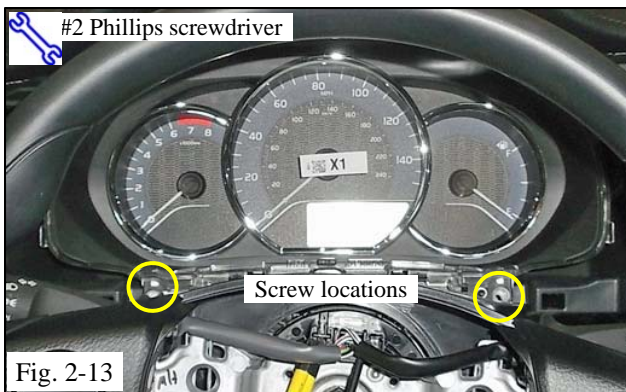
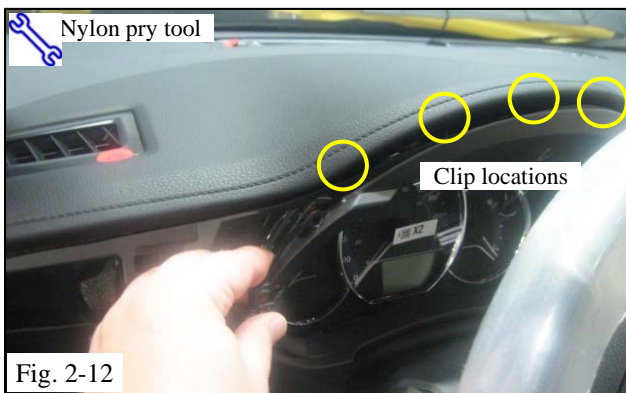
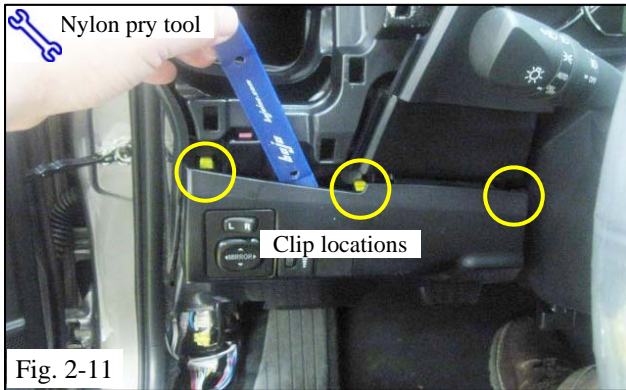


(h) Remove the driver side lower instrument panel.

- (1) Use a nylon pry tool to remove the right most knock out (Fig. 2-9).



- (2) Remove the screw behind the knock out (Fig. 2-10).



(3) Use a nylon pry tool to disengage the 7 clips and pull from the top (Fig. 2-11).

(4) Disconnect the dimmer and mirror switches.

(i) Remove the instrument cluster bezel.

(1) Lower the steering wheel and pull it out as far as it will go.

(2) Use a nylon pry tool to release the 4 clips and remove the instrument cluster bezel (Fig. 2-12).

(j) Remove the instrument cluster.

(1) Remove the two screws at the bottom left and right (Fig. 2-13).

(2) Place a protective cloth between the steering wheel and the instrument cluster (Fig. 2-14).

(3) Fold/pull the cluster forward.

(4) Disconnect the 2 connectors.

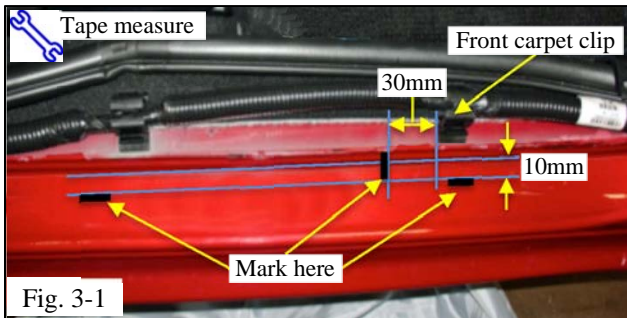
(5) Carefully slide the cluster out towards the left (driver) side of vehicle.

3. Install the Illuminated Door Sills.

- (a) Clean the passenger side door sill area and installation fixture with VDC approved cleaner.

STOP NOTE: The work area, door sills, and vehicle door surface temperature must be at least 60°F (16°C)

- (b) Measure 10mm from the outside edge of the pinch weld and mark two areas left and right (Fig. 3-1).
- (c) Measure 30mm from the rear edge of the front carpet clip towards the back of the vehicle and mark the pinch weld (Fig. 3-1).



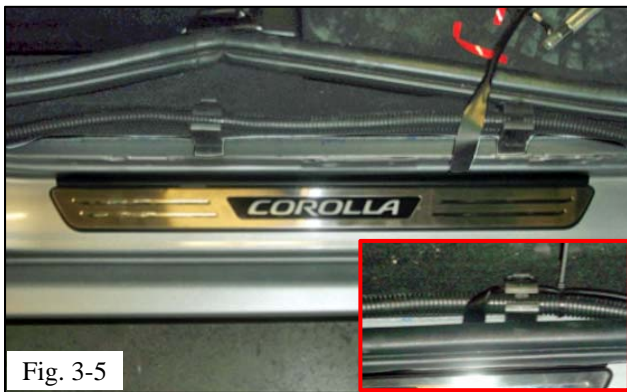
- (d) Apply a strip of masking tape (1) along the inside edge of the rocker, with its outer edge at the 10mm marks (Fig. 3-2).
- (e) Apply a second piece of masking tape (2) with its back edge at the 30mm mark (Fig. 3-2).
- (f) Remove the adhesive protective film/tape.
- (g) Place the rear edge of the door sill against the edge of the masking tape (1, Fig. 3-3).

STOP NOTE: DO NOT DROP THE DOOR SILL ONTO THE VEHICLE.

- (h) Slide the door sill to align the cable with the edge of the masking tape (2, Fig. 3-3).

CAUTION: The door sills are marked left and right. If the door sill wire lines up with the soft part of the weather strip then they are reversed!

- (i) Place the door sill protector on the vehicle sill (Fig. 3-3).
- (j) Use a roller to fully wet out the adhesive.



(k) Remove the masking tape.

(l) Snap the bottom of the cable hider into the rear of the door sill protector (Fig. 3-4).

⚠ NOTE: Push the top of the hider piece until and an audible snap is heard.

(m) Ensure the cable hider is properly aligned. Pull back the cable hider, being careful not to disengage it from the door sill protector. Remove the 4 adhesive protectors and attach the cable hider against the vehicle.

(n) Route the wire over the pinch weld and reinstall the weather seal over the wire (Fig. 3-5).

(o) Route the optical cable along the existing harness and harness holder (circle, Fig. 3-6) towards the junction blocks in the kick panel.

(p) Secure the cable with 3 wire ties (arrows, Fig. 3-6).

(q) Repeat Step 3 on the driver side.

4. Connect and Route the Door Sill Wiring.

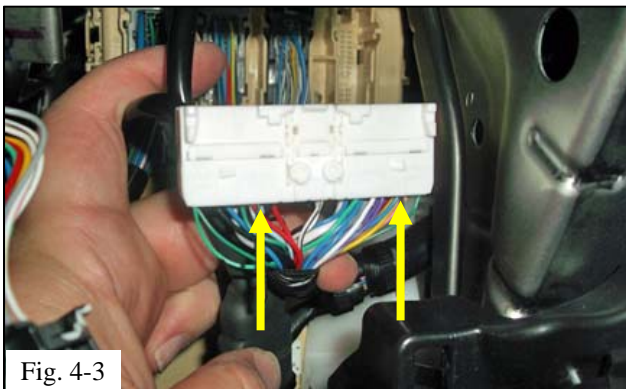
- (a) Locate the right side connector (white, already removed for clarity) on the junction block below the steering column (circle, Fig. 4-1).



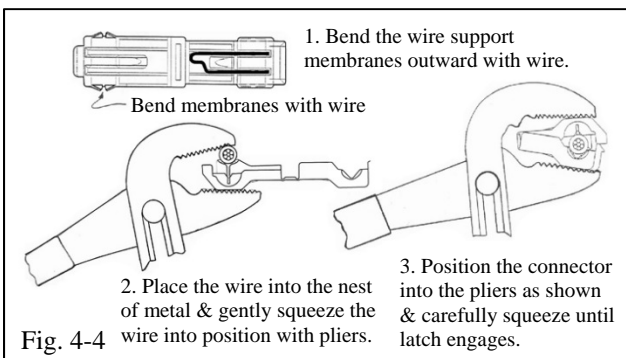
- (b) Unlock the yellow security lock (arrow, Fig. 4-1) and remove the connector from the junction block (Fig. 4-2).

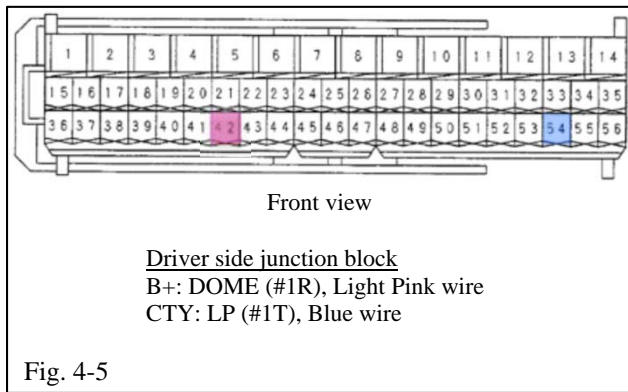


- (c) Remove the grey connector lock from the connector body to access the light pink and blue wires indicated by the arrows (Fig. 4-3).

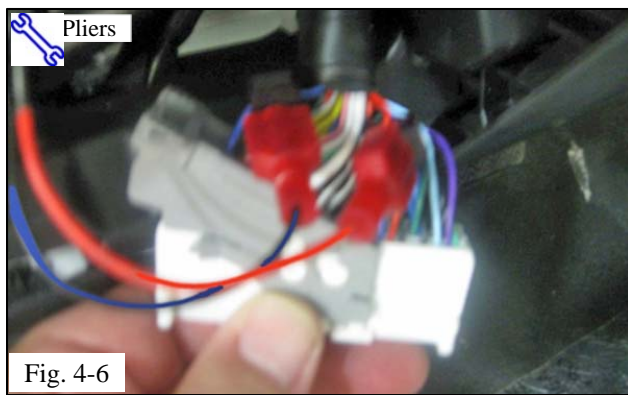


- (d) Review Fig. 4-4 for applying the wire taps.

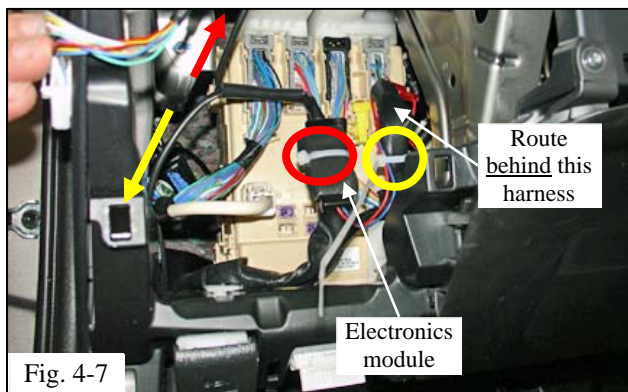




- (e) Locate the light pink (Pin 42) and blue (Pin 54) wires (Fig. 4-5). Install a T-tap connector to each wire.



- (f) Connect the door sill electronics package red wire to the T-tap on the connector's light pink wire (Fig. 4-6).
- (g) Connect the door sill electronics package blue wire to the T-tap on the connector's blue wire (Fig. 4-6).
- (h) Reinstall the grey connector lock and reconnect the connector to the connector block.



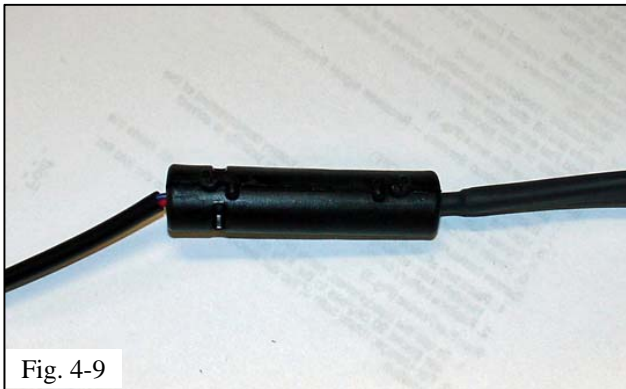
- (i) Replace the yellow lock back in its original position.
- (j) Route the electrical wires (Fig. 4-7).
 - (1) Wire tie the electronics module to the vehicle wire harness (red circle).
 - (2) Apply an additional wire tie as indicated by the yellow circle.
 - (3) Route the short LED wire down and towards the driver side cowl area connector block (yellow arrow).
 - (4) Route the long LED wire up towards the driver side vent and instrument panel area (red arrow).

(k) Route the driver side electrical wires.

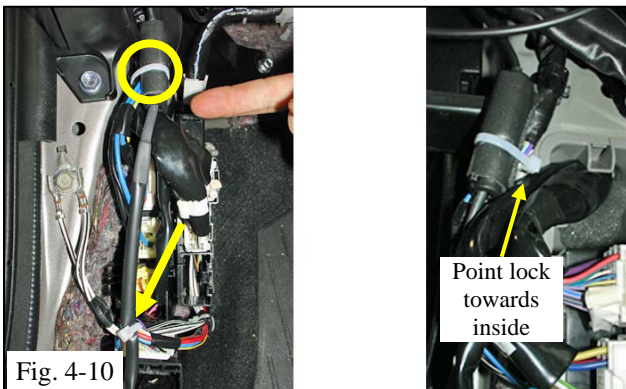
(1) Line up the light engine protective sleeve on the electronics package short wire to the optical wire from the driver side door sill (Fig. 4-8).



(2) Insert the optical wire into the opening until you hear a click sound (Fig. 4-9). Slightly pull on the optical wire to ensure it is properly connected.

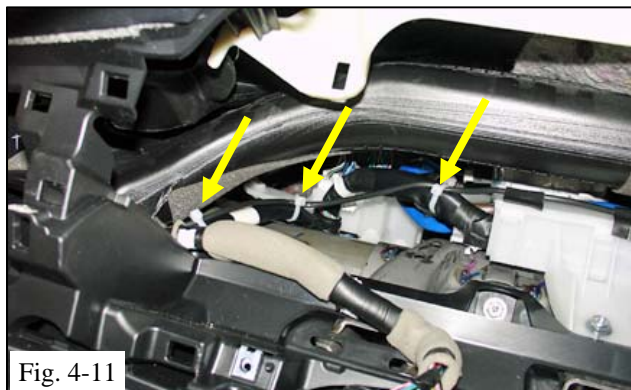


(3) Wrap foam tape around the protective sleeve and secure it to the existing harness with 1 wire tie (circle, Fig. 4-10). Point the lock portion of the wire tie towards the front of the vehicle to avoid potential contact with the cowl panel.



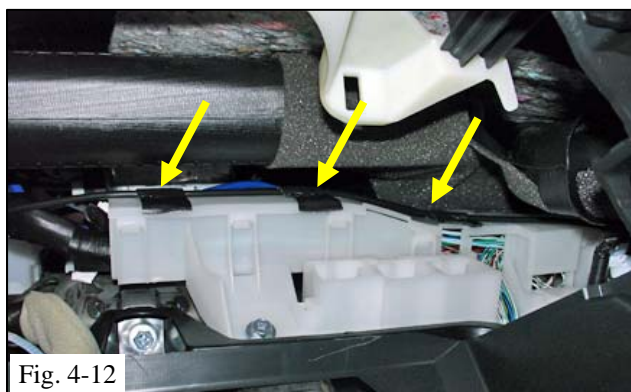
(4) Add an additional wire tie to secure the harness (arrow, Fig. 4-10).

⚠ CAUTION: Do not attach the harness to the yellow air bag wire.

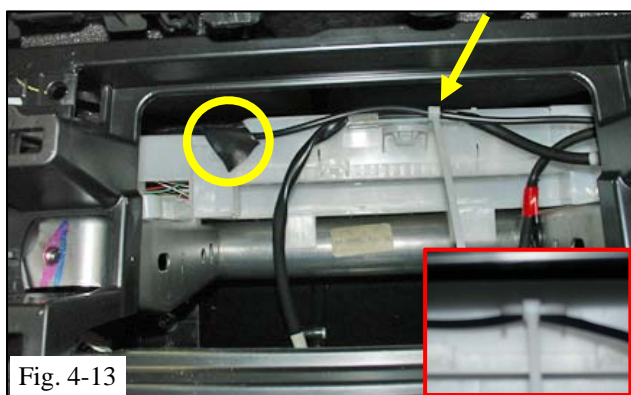


(1) Route the passenger side electrical wires.

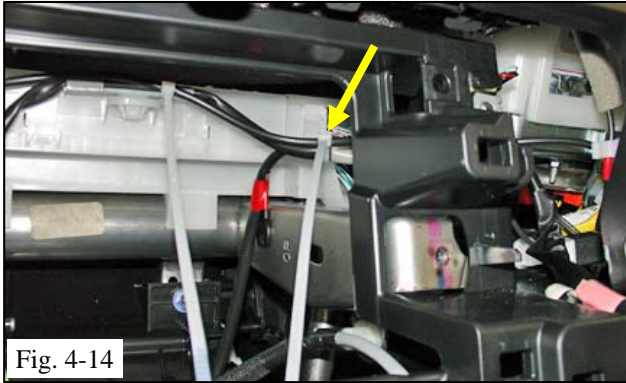
(1) Route the long LED wire from the electronics package along the existing harness behind the instrument panel and secure it with 3 wire ties (Fig. 4-11).



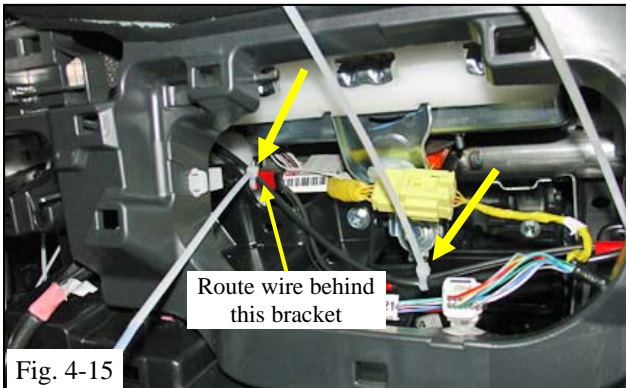
(2) Continue routing the wire along the plastic harness carrier and secure it with 3 pieces of foam tape (Fig. 4-12).



(3) Route the wire behind the radio opening and secure it to the harness, or the carrier bracket if no harness is present (see inset), with 1 wire tie (arrow) and 1 piece of tape (circle, Fig. 4-13).

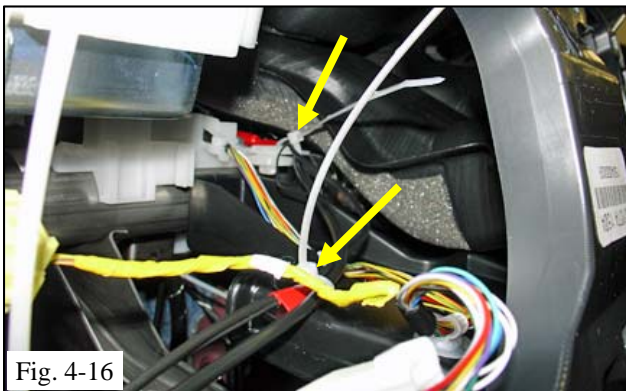


- (4) Secure the LED harness to the vehicle harness with 1 wire tie at the left side of the radio opening (Fig. 4-14).



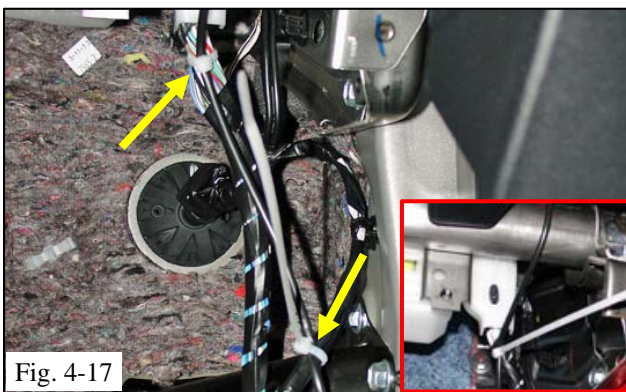
- (5) Route the long LED wire into the passenger side instrument panel opening and secure it to the existing harness with 2 wire ties (Fig. 4-15).

CAUTION: Do not attach the harness to the yellow air bag wire.

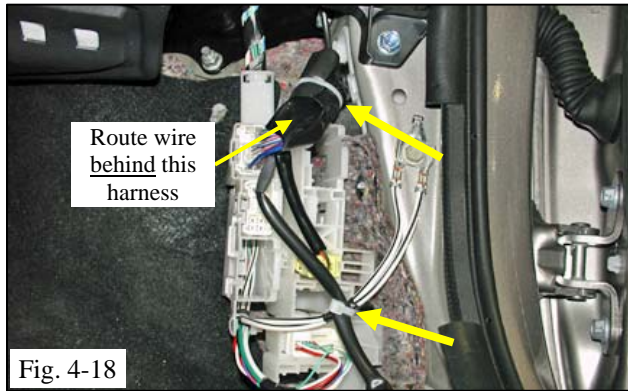


- (6) Continue routing the wire along the existing harness inside the passenger side instrument panel opening and secure it with 2 wire ties (Fig. 4-16).

CAUTION: Do not attach the harness to the yellow air bag wire. Route the door sill wire under this wire.



- (7) Route the LED wire down along the existing harness behind the glove box opening, in front of the instrument panel support tube (see insert picture), and towards the passenger side cowl connector block. Secure it with 2 wire ties (Fig. 4-17).



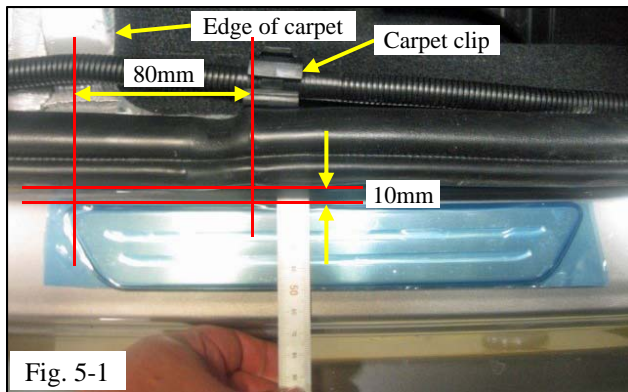
(8) Connect the long LED wire to the optical wire from the passenger side door sill using the same procedure used in Steps 4(k)(1) and 4(k)(2) on the driver side.

(9) Wrap the connection with foam tape and secure it to the existing harness with 1 wire tie (upper arrow). Add an additional wire tie (lower arrow, Fig. 4-18).

(m) Trim all wire tie excess.

5. Install the Rear Door Sills.

(a) Use the rear installation fixtures to install the rear door sills following the same procedure as in Steps 3(a) through 3(k) (Fig. 5-1).



6. Perform a Function Test.

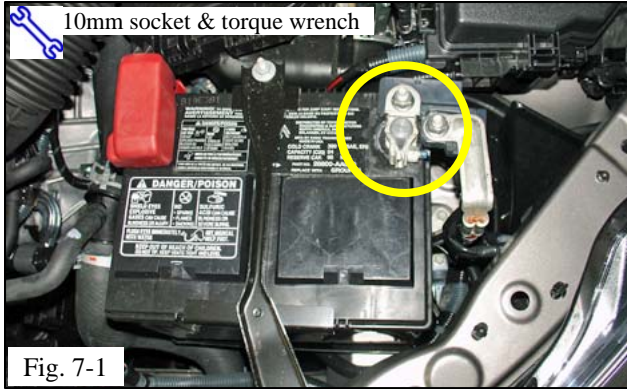
(a) Temporarily reconnect the negative battery terminal. If required, install the short pin.

(b) Press the front door courtesy switches to check the function of the front door scuff plates.

(1) The door sill light should be on with the door(s) open (Fig. 6-1).

(2) The door sill light should turn off after 15 seconds when all of the door courtesy switches are pressed.





7. Complete the Installation.

- (a) Reassemble the vehicle by reversing Step 2.
- (b) Reconnect the negative battery cable (Fig. 7-1).
 - (1) Position the negative battery cable at the original factory position.

+ **CAUTION:** Do not touch the positive battery terminal with any tool when replacing the cable.

- (2) Tighten the nut with 5.4 N-m (48 lbf-in) of torque.

S **Torque: 5.4 N-m (48 lbf-in)**

- (c) Perform any accessory or vehicle function checks.
- (d) If required, replace the short pin to its original position.
- (e) Clean up and remove any trash.
- (f) Operator Safety Warning (if applicable.)
- (g) First process step.

TOYOTA COROLLA 2017 - ILLUMINATED DOOR SILLS
 Checklist - these points **MUST** be checked to ensure a quality installation.

<u>Check:</u>	<u>Look For:</u>
<p><u>Accessory Function Checks</u></p> <p><input type="checkbox"/> Door sill fit</p> <p><input type="checkbox"/> Open the front doors</p> <p><input type="checkbox"/> Press the courtesy switch</p>	<p>No uneven gaps around the edges; clips securely fastened</p> <p>Front door sill lights turn on</p> <p>Front door sill lights turn off for each side</p>
<p><u>Vehicle Function Checks</u></p> <p><input type="checkbox"/> Door courtesy lights</p> <p><input type="checkbox"/> Radio</p> <p><input type="checkbox"/> Power mirrors</p> <p><input type="checkbox"/> Dimmer</p> <p><input type="checkbox"/> Instrument cluster</p> <p><input type="checkbox"/> Hazard switch</p> <p><input type="checkbox"/> Passenger airbag indicator</p>	<p>Front door courtesy lights operate normally</p> <p>Radio functions normally</p> <p>Mirrors function normally</p> <p>Dimmer functions normally</p> <p>Instrument cluster functions normally</p> <p>Hazard switch function normally</p> <p>Passenger airbag indicator light turns on</p>
<p><u>Vehicle Appearance Check</u></p> <p><input type="checkbox"/> After accessory installation and removal of protective cover(s), perform a visual inspection.</p>	<p>Ensure no damage (including scuffs and scratches) was caused during the installation process. (For PPO installations, refer to TMS Accessory Quality Shipping Standard.)</p>