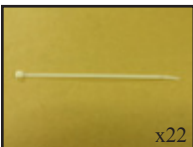
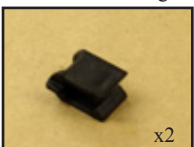


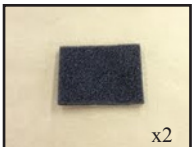



Part #: PT413-07130

Conflicts:

## Kit Contents:

Wire Tie	Pinch Weld Bridge	Attachment Pins	Scotchloks™	Foam Pad	Front Door Sill	Rear Door Sill
 x22	 x2	 x12	 x4	 x2	 x2	 x2

## Hardware Kit Contents

Item#	Quantity Reqd.	Description
1	22	Wire Tie
2	4	Scotchloks™
3	12	Attachment Pin
4	2	Pinch Weld Bridge
5	2	Foam Pad
6	2	Front Door Sills
7	2	Rear Door Sills

## Additional Items (may be required)

Item#	Quantity Reqd.	Description

Item#	Quantity Reqd.	Description

## Recommended Tools

Personal & Vehicle Protection	Description
Blankets	
Masking Tape	
Electrical tape	
Eye Protection	
Special Tools	
Nylon Panel Tool	
Installation Tools	
Torque Wrench	0-61 in-lbf
Phillips Screwdriver	
Socket wrench	
10 mm Socket	
Socket Extension	
Pliers	
Special Chemicals	

## Legend

**STOP:** Damage to the vehicle may occur. Do not proceed until process has been complied with.**CAUTION:** A process that must be carefully observed in order to reduce the risk of damage to the accessory/vehicle.**OPERATOR SAFETY:** Use caution to avoid risk of injury.**TOOLS & EQUIPMENT:** Used in Figures to call out the specific tools and equipment recommended for the 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.**VIDEO:** Video Available; click to Play

LED Lamp

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1. Vehicle Preparation.....	3
III. Checklist .....	13
IV. Accessory Function Checks.....	13
V. Vehicle Function Checks.....	13

Accessory Installation Practice (read before installation)

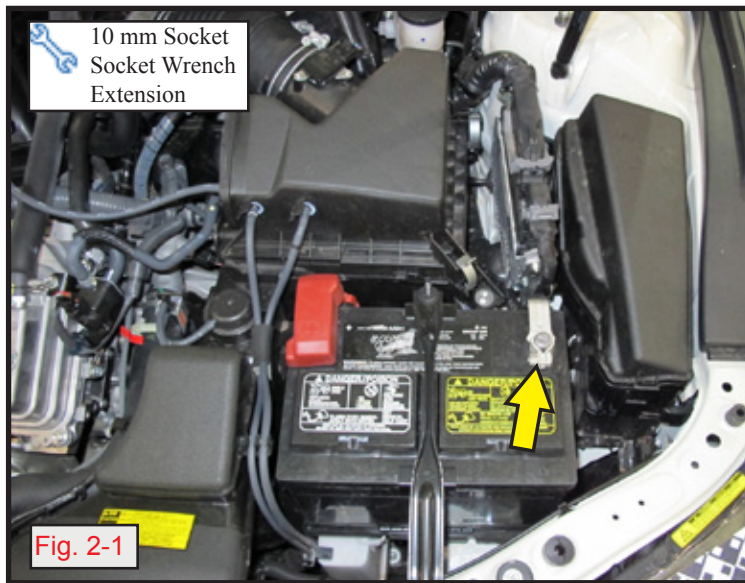
Care must be taken when installing this accessory to ensure damage does not occur to the vehicle. The installation of this accessory should follow approved guidelines to ensure a quality installation.

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, checking torque procedure, etc.)
- Vehicle Disassembly/Reassembly (panel removal, part storage, etc.)
- Electrical Component Disassembly/Reassembly (battery disconnection, connector removal, etc.)

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



### 1. Check Kit Contents

- a. Check kit for content and damage.

### 2. Vehicle Preparation

- a. Remove battery negative cable.

**+** CAUTION: Do not touch the positive terminal with any tool during removal

- b. Disconnect Battery

1. IMPORTANT-vehicle must be turned to "OFF" position before performing this step.



2. Remove negative lead from battery. Place battery lead so it does not come into contact with battery terminal. (Fig 2-1)

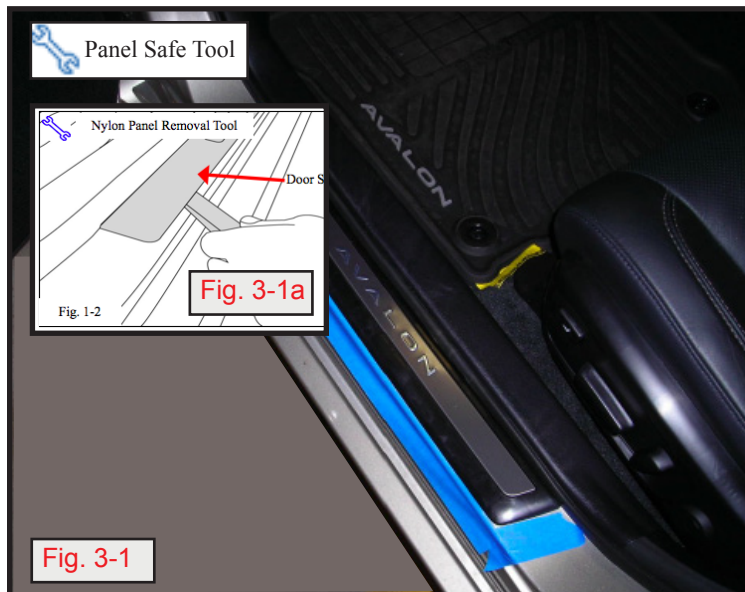
### 3. Remove Sill Plates

- a. Remove passenger and driver side front door sills.



1. Apply protective tape around sill plate. (Fig. 3-1)

2. Use a panel safe tool and remove factory door sills and discard. (Fig. 3-1a)

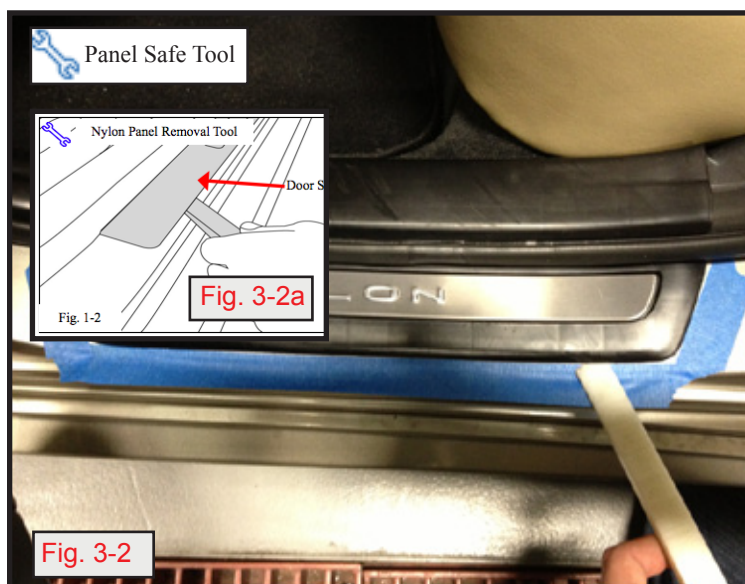


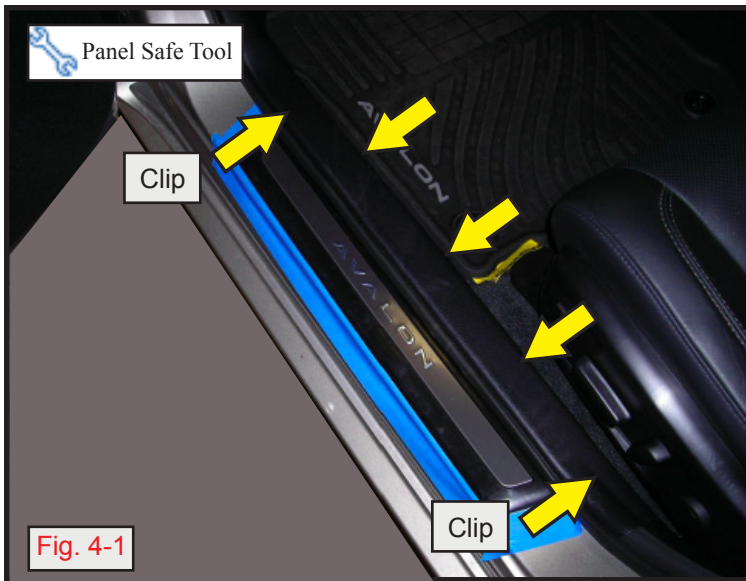
- b. Remove passenger and driver side rear door sills.



1. Apply protective tape around sill plate. (Fig. 3-2)


2. Use a panel safe tool and remove factory door sills and discard. (Fig. 3-2a)





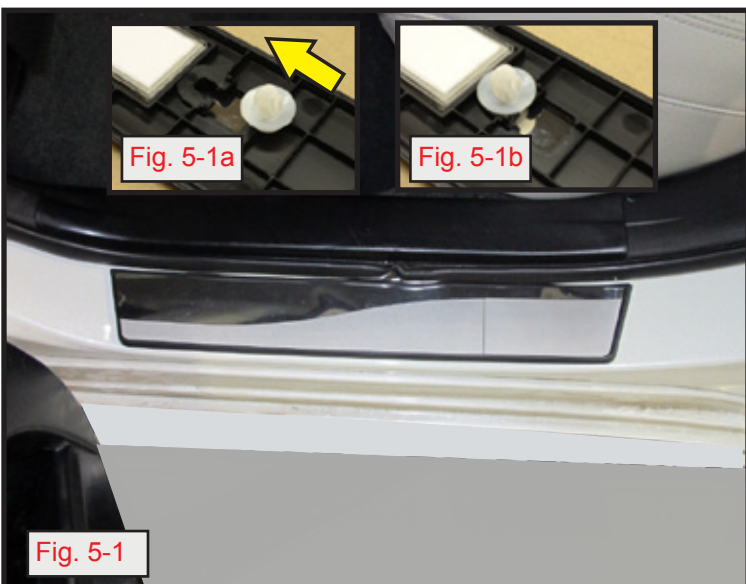
#### 4. Remove Front Passenger and Driver Side Rear Inner Door Sill Panels.

- a. Using a panel safe tool remove inner door sill panels. (Fig. 4-1)

 **CAUTION:** Do not break or bend bottom clips at either end of sill trim.



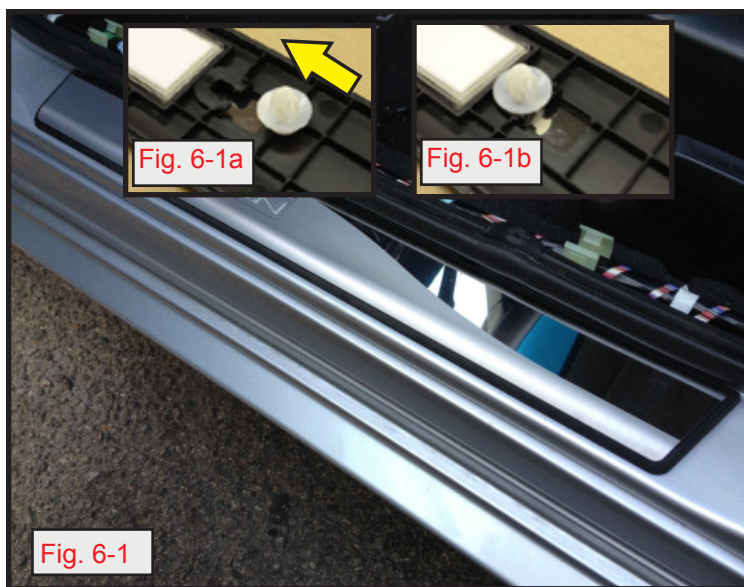
- b. Remove passenger and driver side access panels.
- c. Remove plastic nut by hand, if needed use a phillips screwdriver.
  1. Use panel safe tool to remove panel. (Fig. 4-2)
  2. If clips detach from panel, use clip extractor tool to remove clips from vehicle, inspect for damage, and re-attach to panel.



#### 5. Install Rear Door Sills

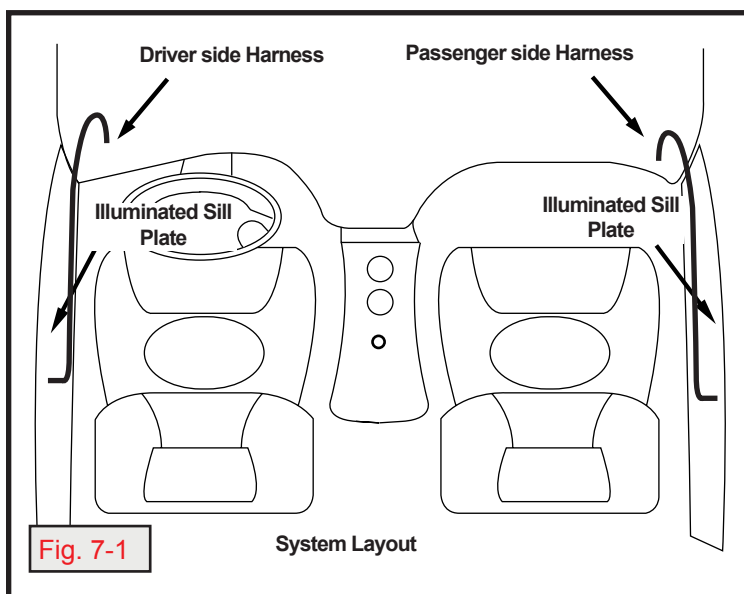
- a. Install passenger and driver side rear door sills. (Fig. 5-1)
  1. Install clips to sill by sliding on. (Fig. 5-1a)
  2. Make sure clips engage completely. (Fig. 5-1b)
  3. Firmly press door sill into place. (Fig. 5-1)





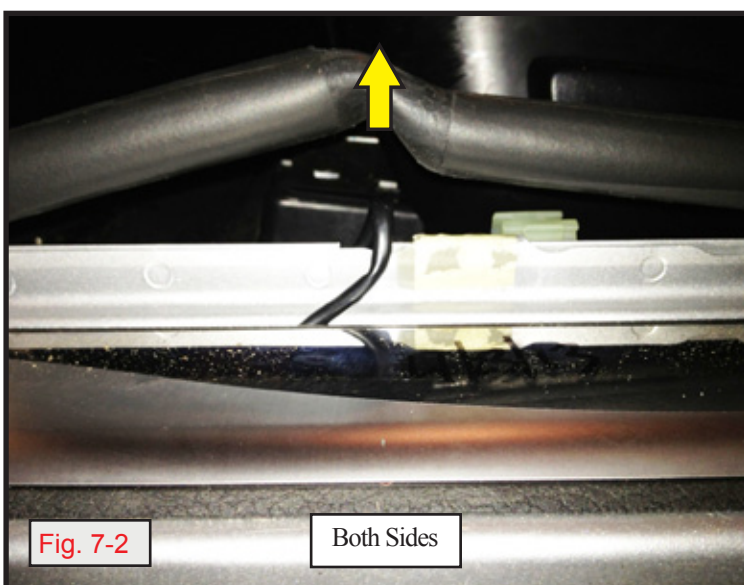
## 6. Install Front Illuminated Door Sills

- a. Install passenger and driver side illuminated front door sills. (Fig. 6-1)
  1. Install clips to sill by sliding on. (Fig. 6-1a)
  2. Make sure clips engage completely. (Fig. 6-1b)
  3. Firmly press door sill into place. (Fig. 6-1)

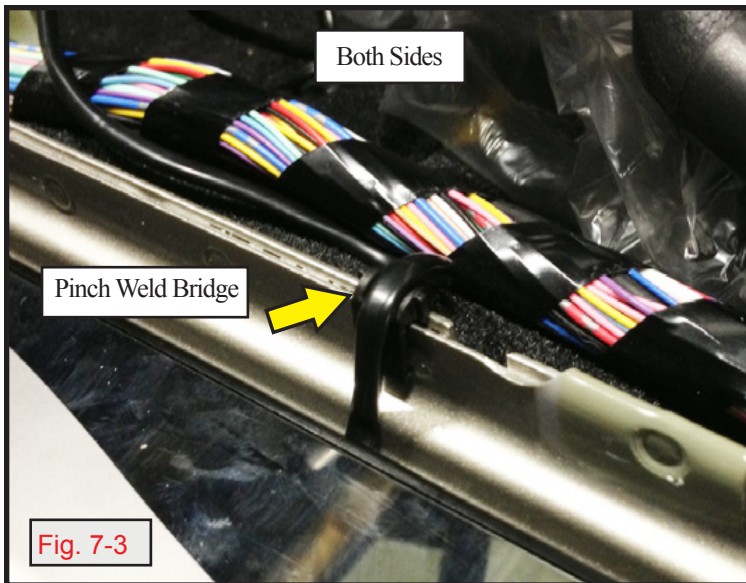


## 7. Route and Connect Harness

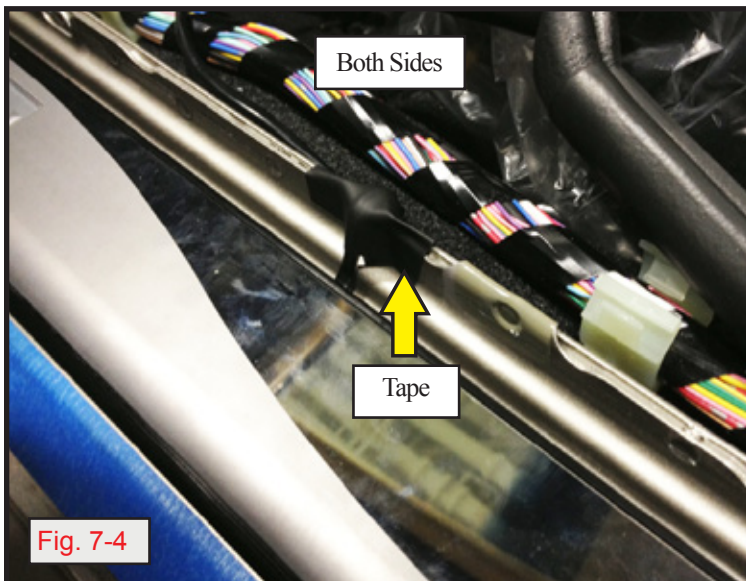
- a. Review overview of harness routing. (Fig. 7-1)



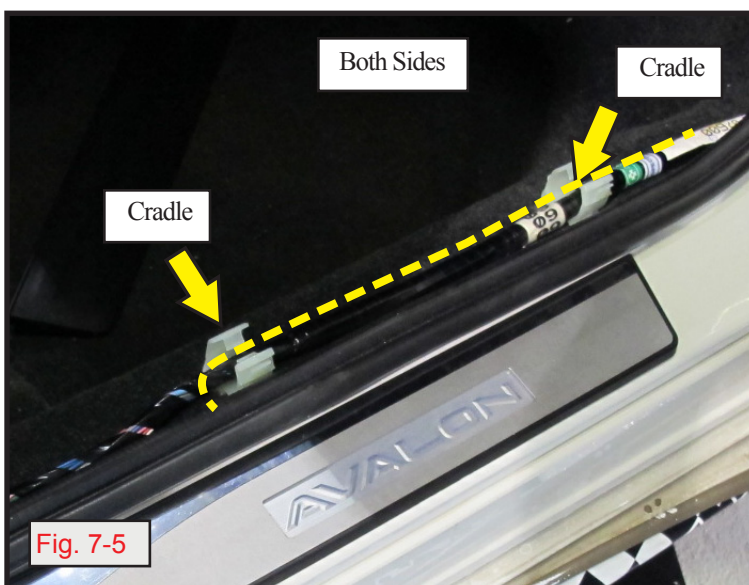
- b. Route harness over the pinch weld on both passenger and driver side.
  1. Remove weather seal from pinch weld. (Fig. 7-2)



- c. Install pinch weld bridge. (Fig. 7-3)
- d. Route harness over pinch weld on passenger and driver side.

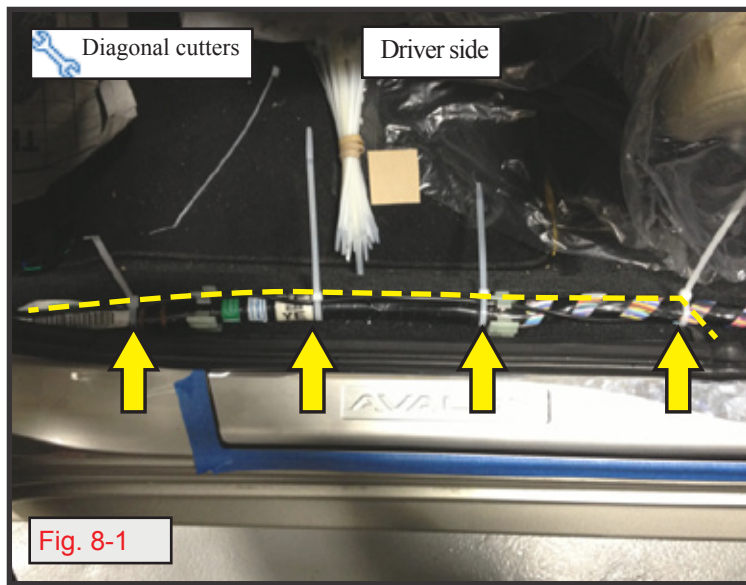


- e. Secure with electrical tape on passenger and driver side. (Fig. 7-4)
- f. Reinstall weather seal, make sure soft portion fits over clip assembly.



- g. Route lighting harness towards the front of the vehicle within two (2) existing harness cradles on passenger and driver side. (Fig. 7-5)



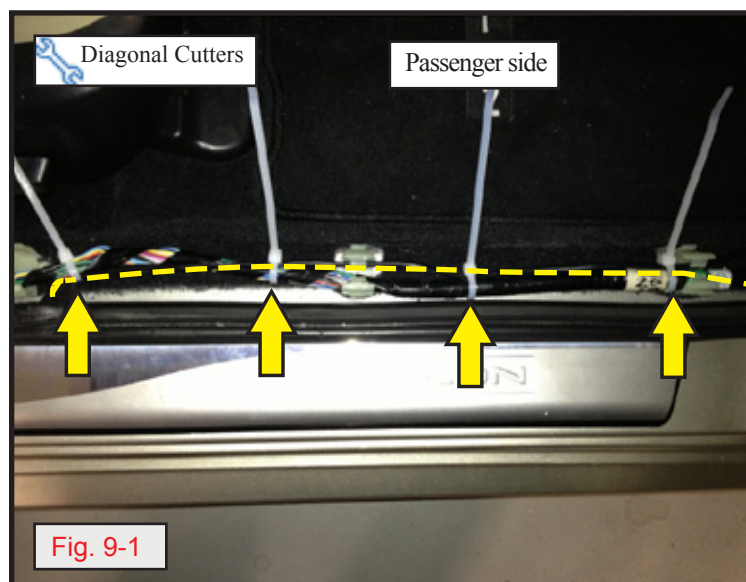


## 8. Driver Side Harness Routing

- a. Attach four (4) cable ties in the area indicated by arrows. (Fig. 8-1)
  1. Trim excess cable ties.

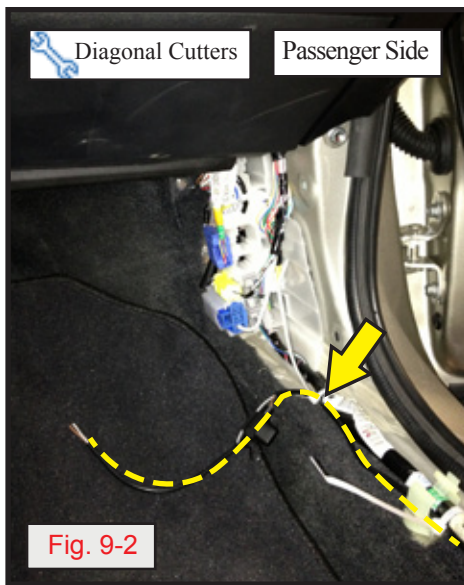


- b. Continue Routing harness towards front of vehicle.
- c. Attach one (1) cable tie in the area indicated by arrow. (Fig. 8-2)
  1. Trim excess cable ties.

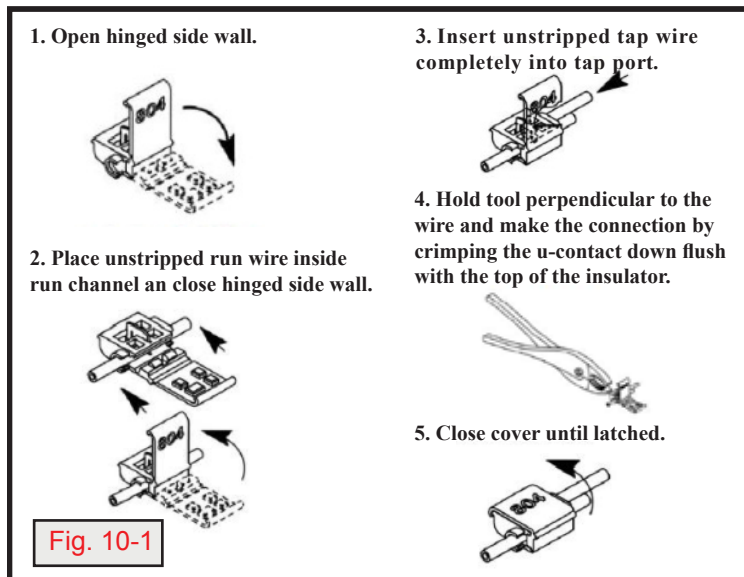


## 9. Passenger Side Harness Routing

- a. Attach four (4) cable ties in the area indicated by arrows. (Fig. 9-1)
  1. Trim excess cable ties.

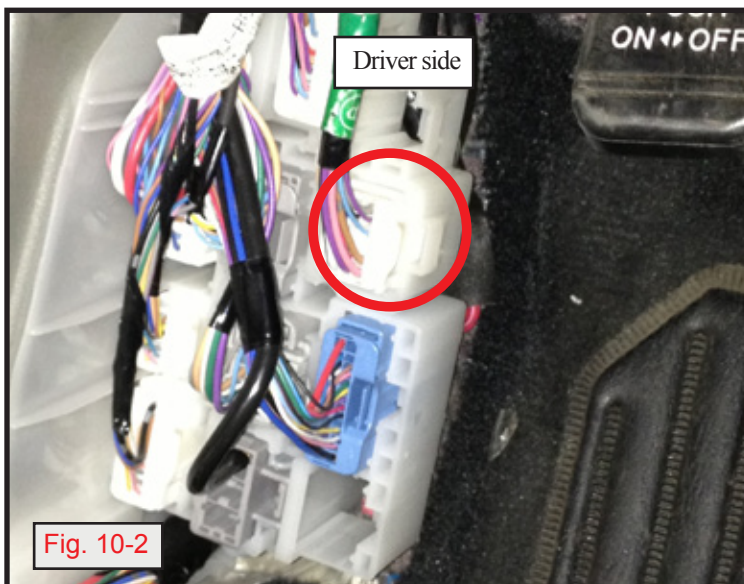


- b. Continue Routing harness towards front of vehicle.
- c. Attach one (1) cable tie in the area indicated by arrow. (Fig. 9-2)
1. Trim excess cable ties.



## 10. Connect To Power

- a. Review Fig. 10-1 on the correct use of Scotchlok™ connectors.

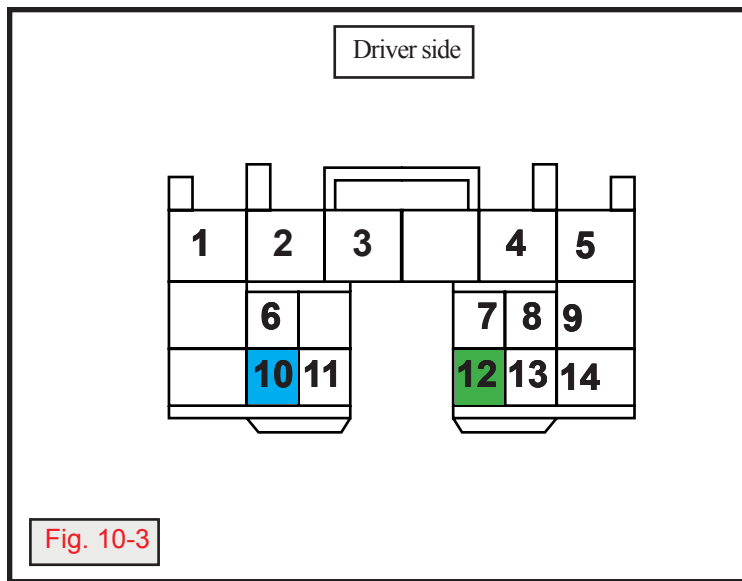


- b. Locate connector on driver (left) side kick panel connection block indicated by circle. (Fig. 10-2)
1. Remove connector from connector block.
2. Peel back approximately one (1) inch of electrical tape.



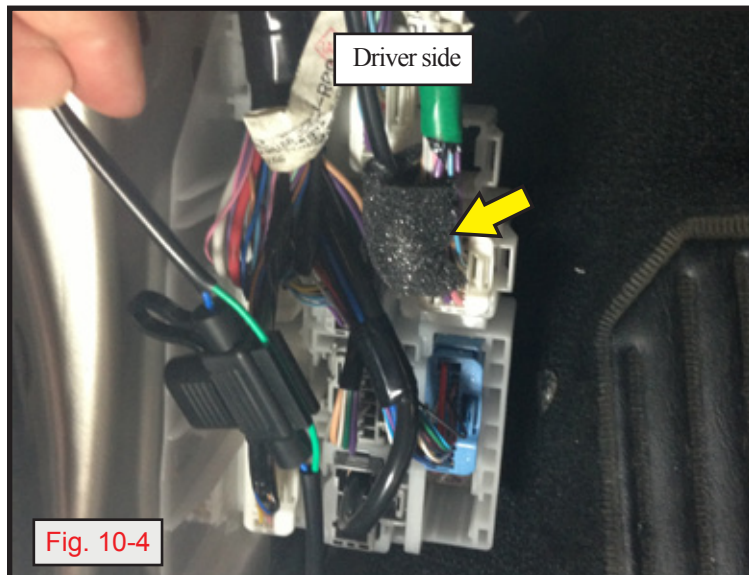
**CAUTION:** Do not use sharp objects that could damage the wire.



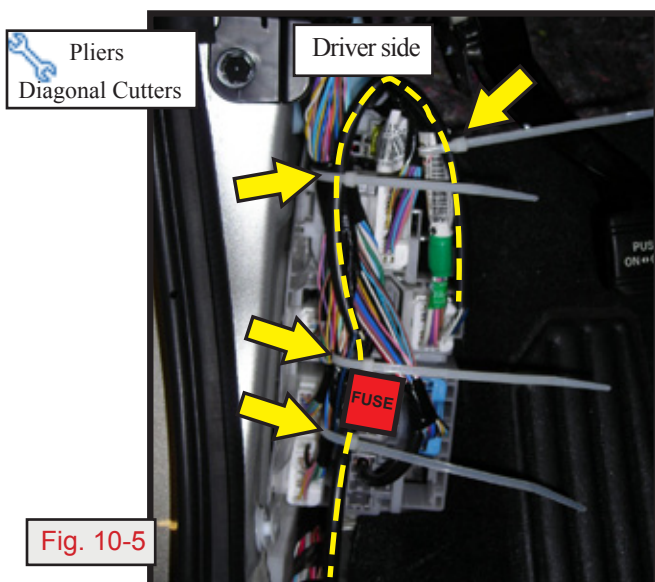


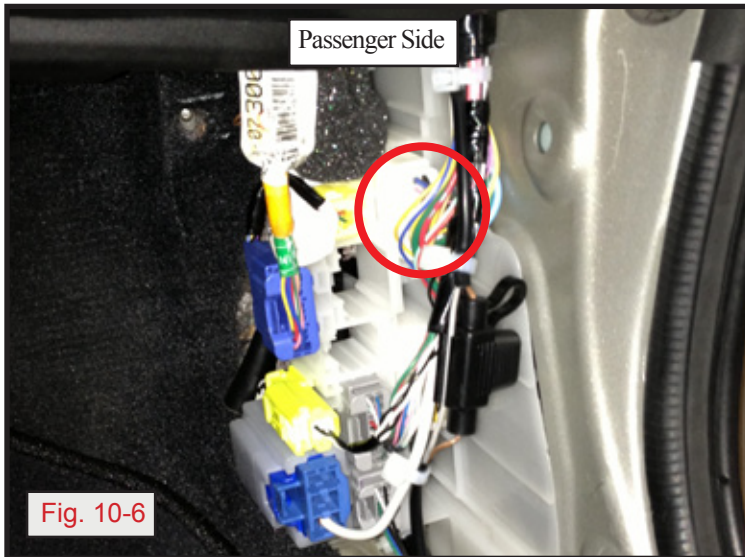
- c. Locate driver (left) side power.
  1. Positive + Locate pin 10 on connector (BLUE wire). (Fig. 10-3)
  2. Negative - Locate pin 12 on connector (GREEN wire). (Fig. 10-3)
- d. Connect sill plate harness to vehicle harness.
  1. Crimp BLUE wire of sill plate harness to BLUE wire of vehicle harness. (Fig. 10-3)
  2. Crimp GREEN wire of sill plate harness to GREEN wire of vehicle harness. (Fig. 10-3)

- e. Apply foam tape and reconnect to connector block. (Fig. 10-4)




- f. Attach four (4) cable ties in areas indicated by arrows. (Fig. 10-5)
  1. Place cable ties on either side of fuse holder. Verify fuse is accessible. (Fig. 10-5)
  2. Trim excess cable ties.

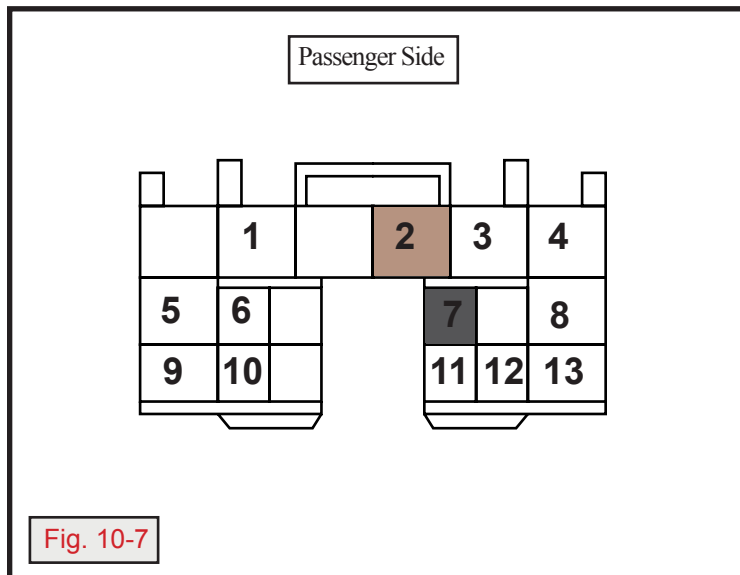




g. Locate connector on passenger (right) side kick panel connection block indicated by circle. (Fig. 10-6)

1. Remove connector from connector block.
2. Peel back approximately one (1) inch of electrical tape.

 **CAUTION:** Do not use sharp objects that could damage the wire.

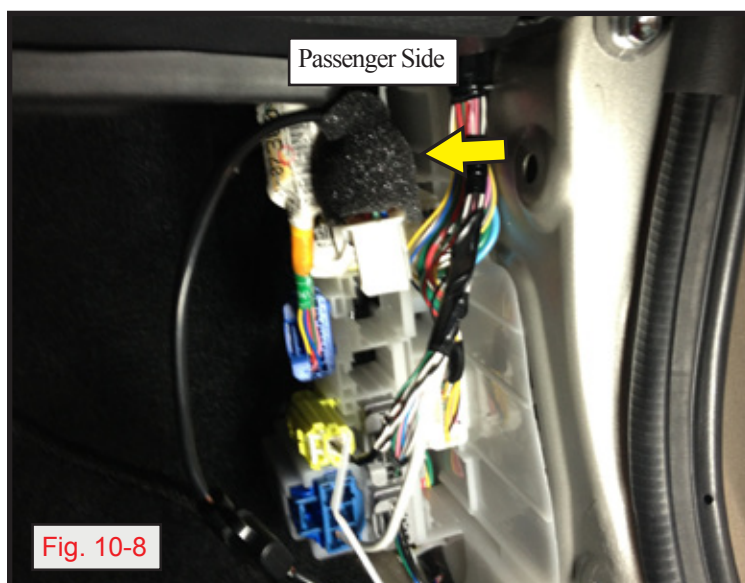


h. Locate passenger (right) side power.

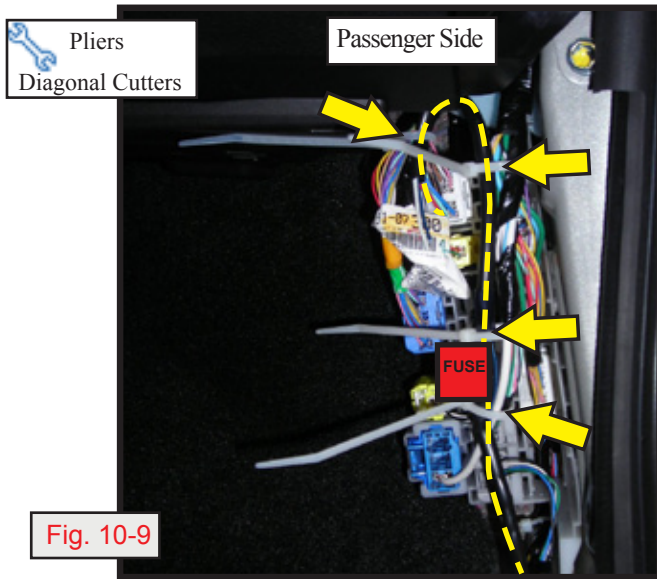
1. Positive + Locate pin 2 on Connector (BROWN wire). (Fig. 10-7)
2. Negative - Locate pin 7 on Connector (GRAY wire). (Fig. 10-7)

i. Connect sill plate harness to vehicle harness.

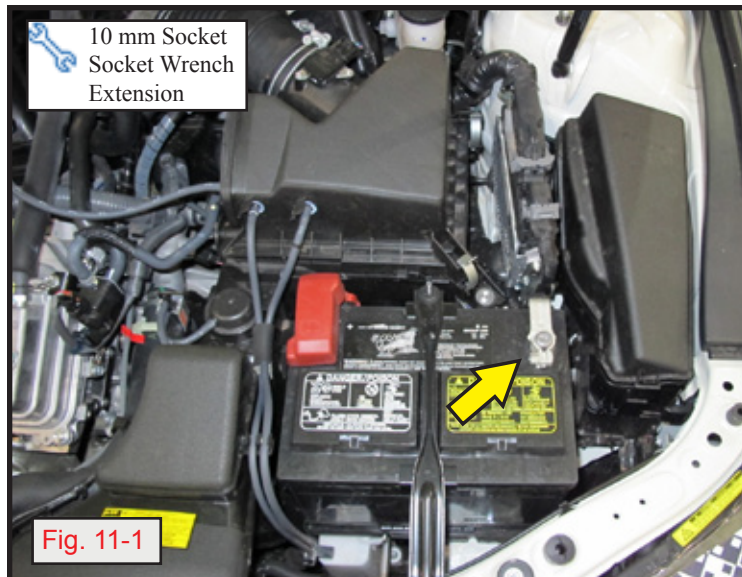
1. Crimp BROWN wire of sill plate harness to BROWN wire of vehicle harness. (Fig. 10-7)
2. Crimp GRAY wire of sill plate harness to GRAY wire of vehicle harness. (Fig. 10-7)





j. Apply foam tape and reconnect to connector block. (Fig. 10-8)




- k. Attach four (4) cable ties in areas indicated by arrows. (Fig. 10-9)
1. Place cable ties on either side of fuse holder. Verify fuse is accessible. (Fig. 10-9)
2. Trim excess cable ties.



## 11. TEST CONNECTIONS

- a. Temporarily reconnect battery.
-  b. Position the Negative Battery cable at the original factory location.
-  c. Tighten the nut to 61 in·lbf (6.9 N·m).
- d. Verify both door sills are turning on/off by pressing the passenger and driver side door switch. (Fig. 11-1)
- e. Disconnect negative lead.

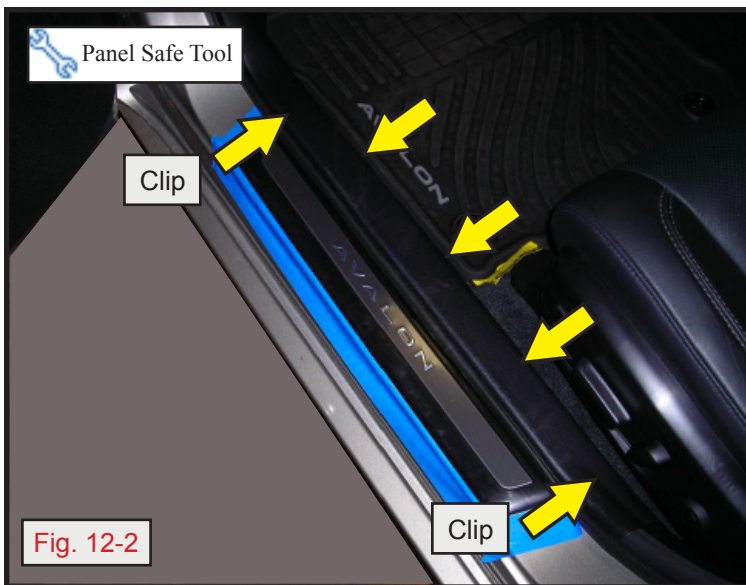
 **CAUTION:** Do not touch the positive terminal.



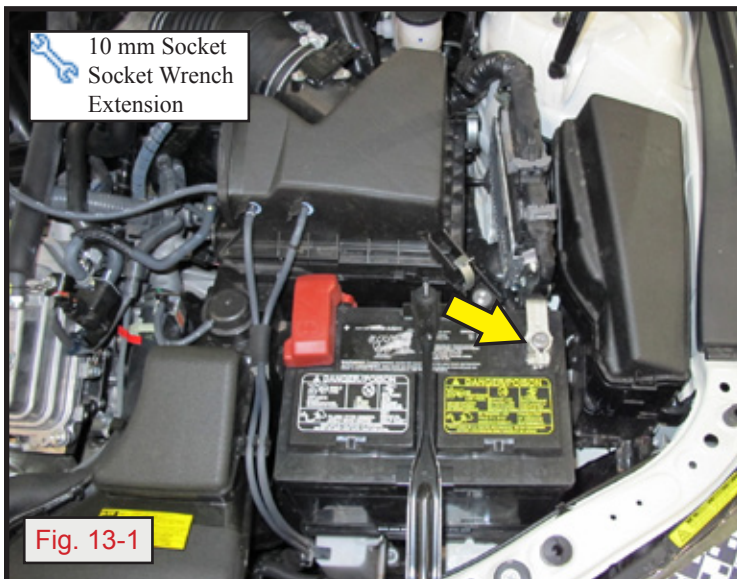
## 12. Reinstall Vehicle Panels

- a. Reinstall passenger and driver side Access panels.
1. Verify access panels are fully seated. (Fig. 12-1)
2. Install plastic nut indicated by arrow. (Fig. 12-1)








- b. Reinstall passenger and driver side sill trim. (Fig. 12-2)
- c. Make sure clips on either end of sill trim engage properly.



### 13. Complete the Installation

- a. Reconnect the battery. (Fig. 13-1)
-  b. Position the negative battery cable at the original factory location.
-  c. Tighten the nut to 48 in·lbf (5.4 N·m).
-  **CAUTION:** Do not touch the positive terminal.
- d. Remove protective covering (blue tape) from all four door sills

**TOYOTA AVALON/HV 2013 - ILLUMINATED DOOR SILLS**  
**CHECKLIST** – these points **MUST** be checked to ensure a quality installation.

**Accessory Function Checks**

Perform		Look For
1	Open door	Sill plates will illuminate
2		
3		
4		
5		
6		
7		
8		
9		
10		

**Vehicle Function Check**

	Function		Function
<input type="checkbox"/>		<input type="checkbox"/>	
<input type="checkbox"/>		<input type="checkbox"/>	
<input type="checkbox"/>		<input type="checkbox"/>	
<input type="checkbox"/>		<input type="checkbox"/>	

**Vehicle Appearance Check**

	Perform		Look For
<input type="checkbox"/>	Verify fit of sill plates		
<input type="checkbox"/>	Verify fit of access panels		
<input type="checkbox"/>	Verify fit of side sill trim		
<input type="checkbox"/>	After accessory installation and removal of protective cover(s), perform a visual inspection of the vehicle		Ensure no damage (including scuffs and scratches) was caused during the installation process.
			(For PPO installations, refer to TMS Accessory Quality Shipping Standard.)