

Part Number: PT942-53140

Kit Contents

Item #	Quantity Reqd.	Description
1	2	Front Door Sills
2	2	Rear Door Sills
3	1	Hardware Bag

Hardware Bag Contents - 1

Item #	Quantity Reqd.	Description
1	4	T-Tap Connectors
2	20	Lock Ties
3	4	Foam Tape
4	2	LED Light Engine

Conflicts

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Recommended Tools

Personal & Vehicle Protection	Notes
Safety Goggles	
Seat Covers	
Floor Protectors	
Special Tools	Notes
None	
Installation Tools	Notes
Screwdriver	Phillips, #2
Nylon Panel Removal Tool	e.g. Panel Pry Tool #1 Toyota SST # 00002-06001-01
Side Cutters	To Trim Wire Ties
Long Nose Pliers	For Cowl Panel Clips
Pliers	For Wire Taps
Torque Wrench/10mm Socket	For Battery
10mm Wrench	
Special Chemicals	Notes
Cleaner	Approved Cleaner

General Applicability

Note:-

Recommended Sequence of Application


Item #	Accessory
1	
2	


*Mandatory


Vehicle Service Parts (may be required for reassembly)


Item #	Quantity Reqd.	Description
1		
2		
3		


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.



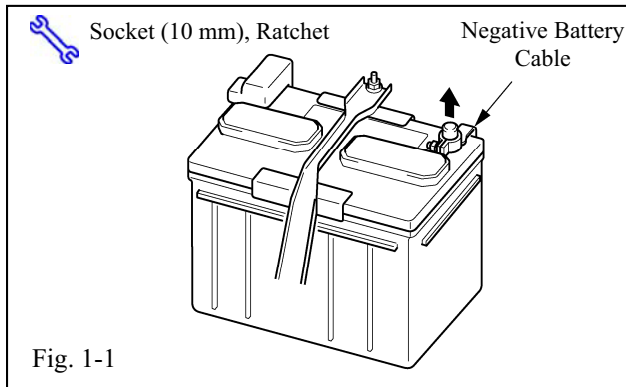
Care must be taken when installing this accessory to ensure damage does not occur to the vehicle. The installation of this accessory should follow approved guidelines to ensure a quality installation.

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.



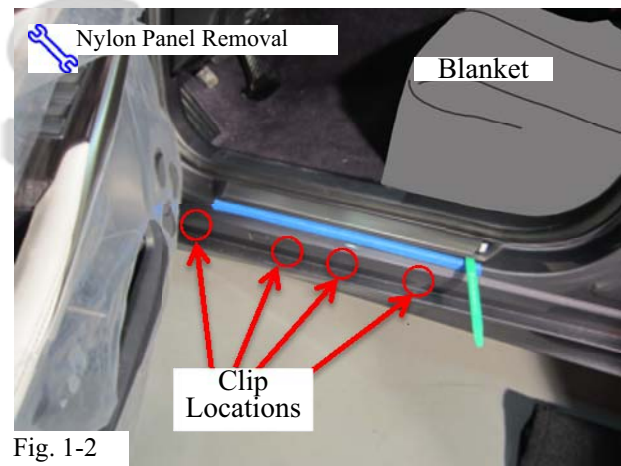
1 Vehicle Disassembly



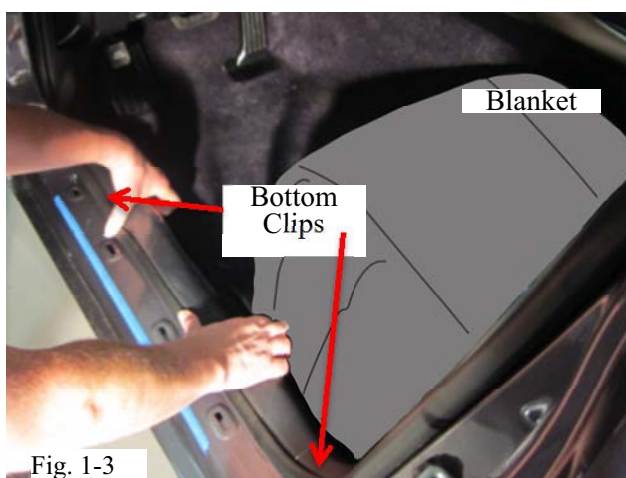
- a) Set parking brake.
- b) Remove the negative battery cable.
(Fig. 1-1)



- (1) Protect the fender before starting.
- (2) Do not touch the positive terminal with any tool when removing cable.



- c) Install masking tape on the front doorsill edge on the driver side of the vehicle.
(Fig. 1-2)
- d) Remove the front driver side doorsill trim piece. Use a nylon panel removal tool to carefully lift the doorsill trim piece to disengage the four (4) clips. Remove the masking tape. Make sure there is no tape residue remaining. (Fig. 1-2)



- e) Remove the front driver's inner door sill trim. (Fig. 1-3)



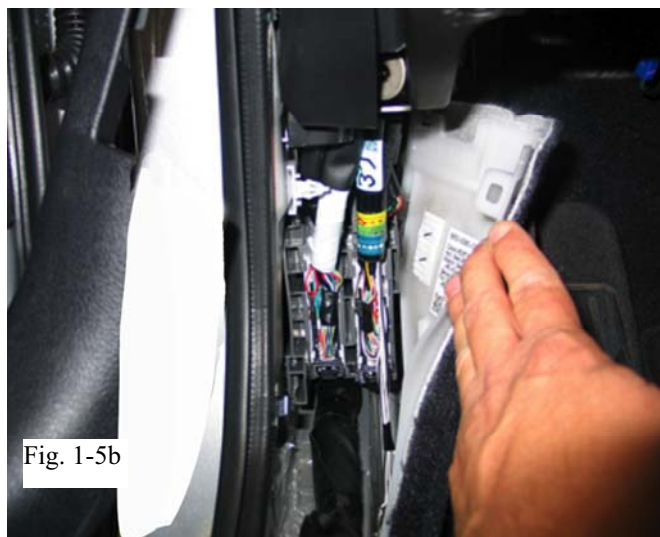
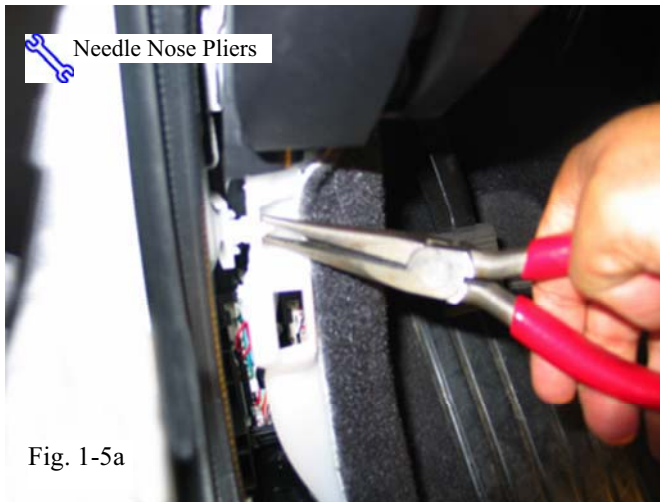
Caution: Do not bend or break bottom clips at either end of sill trim.



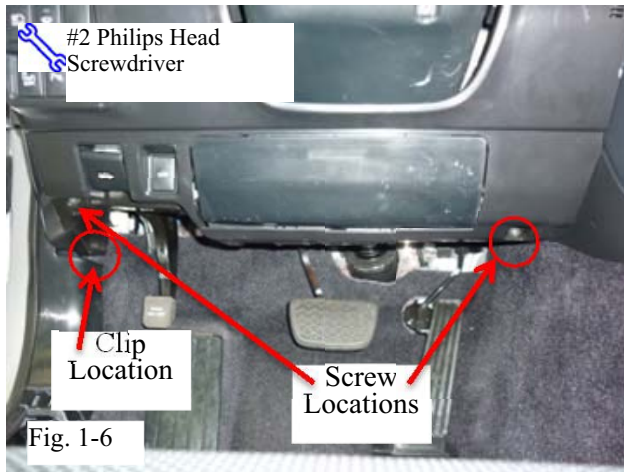
- f) Remove the kick panel trim piece from vehicle by pulling rearward to disengage the four (4) clips while holding the weather strip at clip locations. (Fig. 1-4)

⚠ Note: Do not remove the weather strip.

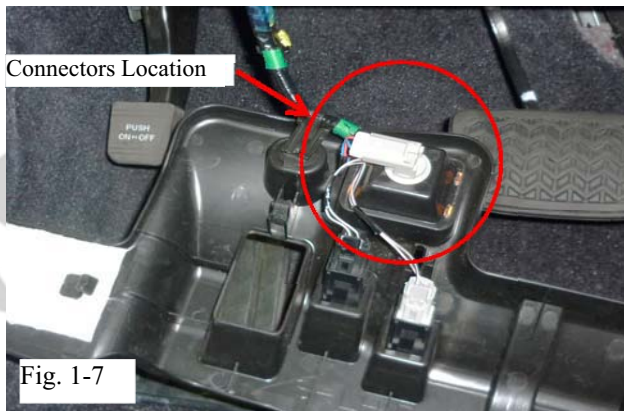
Caution: Do not pull the weather strip off! (Hold the weather strip at clip area while pulling back kick panel.)



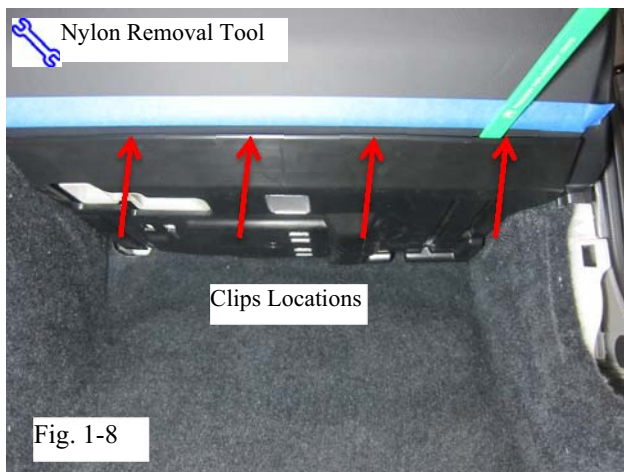
- g) Apply parking brake to ease access to kick panel. Disengage the clip on the carpeted kick panel by squeezing it together with needle nose pliers, and pulling kick panel towards interior of vehicle. (Fig. 1-5a & Fig. 1-5b)



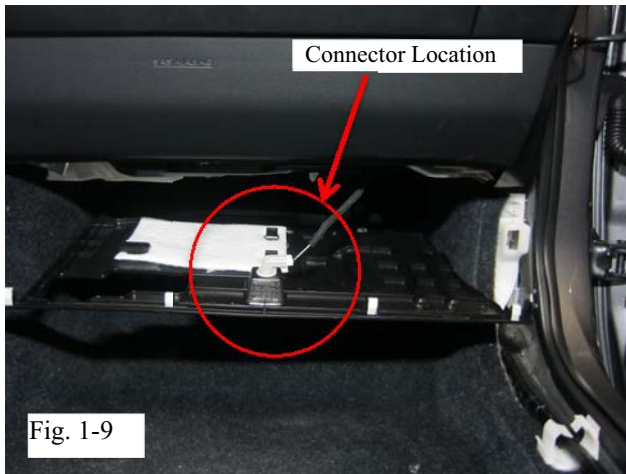
- h) Remove the two screws and release one clip from the driver side under dash trim panel. (Fig 1-6)



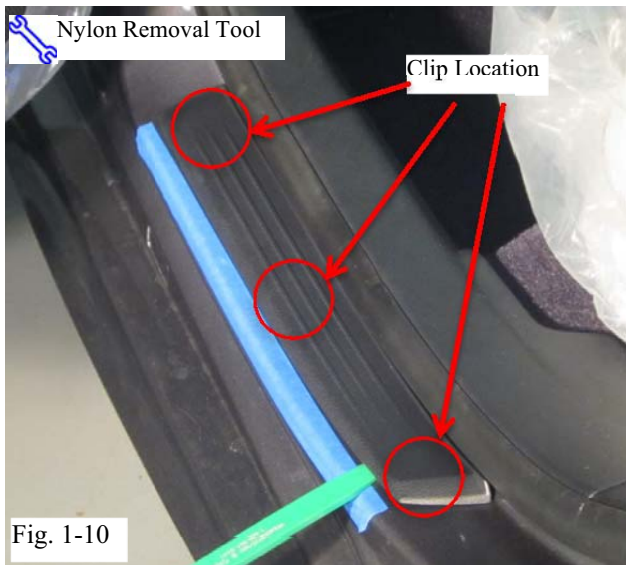
- i) Pull down the driver side under dash trim panel to expose the foot light connector and disengage connector forwards. (Fig 1-7)
- j) Disconnect TPMS connector and remove panel from vehicle.
- k) Repeat steps 1(c) through 1(g) on the passenger side of the vehicle.



- l) Place masking tape, unless protected on the bottom edge of the passenger side knee panel. Using a nylon removal tool, release the 4 clips as shown on the lower trim panel. (Fig. 1-8)



m) Lower the panel to expose the foot light connector. Disengage the connector and remove the panel. Remove the masking tape. Make sure there is no tape residue remaining (Fig. 1-9)



n) Install masking tape on the rear doorsill edge on the driver side of the vehicle. (Fig. 1-10)

n) Use a nylon panel removal tool to carefully lift the doorsill trim piece to disengage the three (3) clips. (Fig. 1-10)

o) Remove masking tape. Make sure there is no tape residue remaining.

p) Repeat 1(m) through 1(o) on the passenger side of the vehicle.

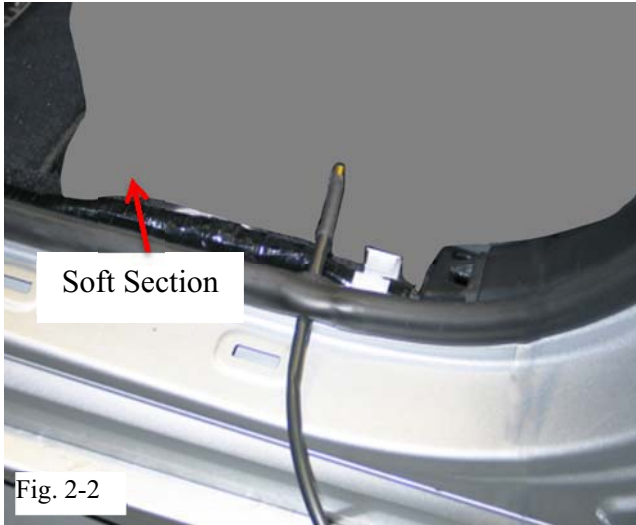
2. Accessory Installation

Note: Door sills are identified on the bottom with an “R” and “L” label respectively.

a) Install driver side rear doorsill by engaging the three (3) clips. Press firmly, in each of the clip locations, to make sure the clips are fully engaged. (Fig. 2- 1)

b) Repeat on passenger side.



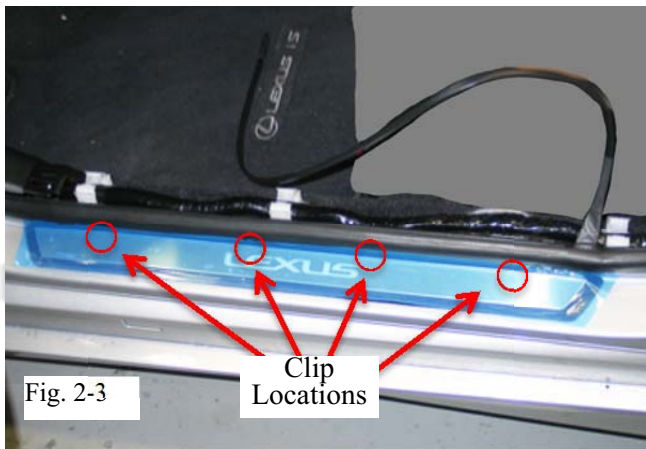


Drivers Side

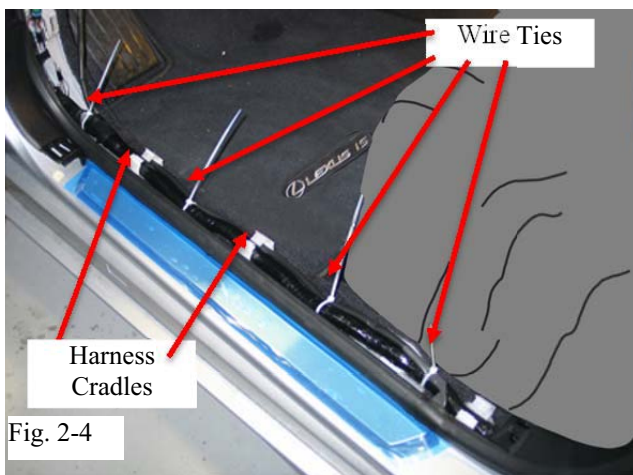
- c) Locate the soft portion of the weather seal at rear of the driver side door opening; it is located aft of the rear clip hole. Route the harness, attached to the door sill, through the soft portion of the seal. Pull the harness completely through the seal. (Fig. 2-2)



Caution: Do not lift up or remove the weather strip.



- d) Install the illuminated doorsill by engaging the four (4) clips. Press down firmly in each of the clip locations to make sure the clips are fully engaged. (Fig. 2-3)



- e) Route door sill harness forward through the two (2) existing harness cradles, along the outside edge of the vehicle harness, and secure with four (4) wire ties, as shown. (Fig. 2-4)



Fig. 2-5

- f) Insert optical wire harness from door sill into opening on electronics module until it clicks into place. Lightly tug on wire harness to insure it is locked in. (Fig. 2-5)

CAUTION: Once locked, the optical cable can no longer be removed.

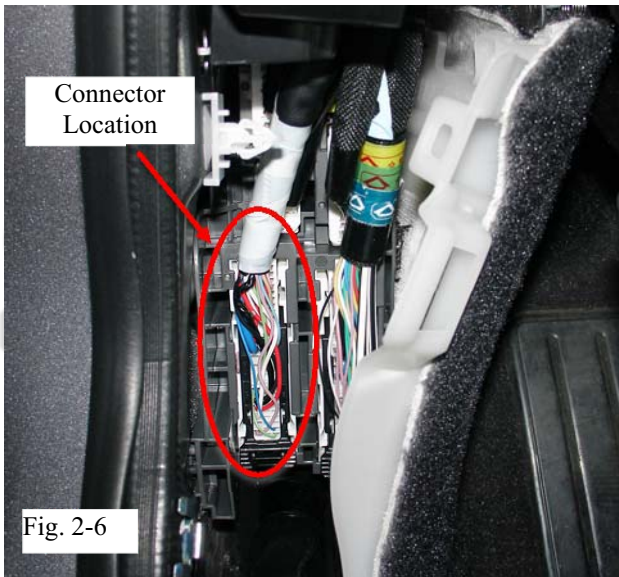


Fig. 2-6

- g) Locate the 67 pin connector on the driver side kick panel connector block as shown. (Fig. 2-6)

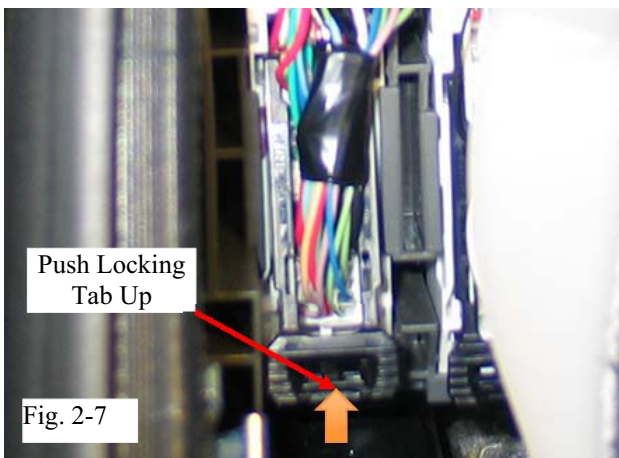


Fig. 2-7

- h) Remove connector from connector block by pushing locking tab up and pulling black lock mechanism out as shown. (Fig. 2-7)
- i) Remove black locking mechanism from body of connector.

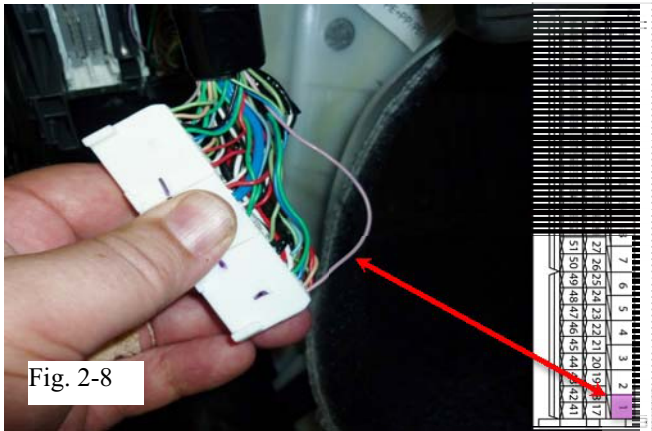


Fig. 2-8

- j) Locate the violet wire (CTY [-], pin 19) as shown. (Fig. 2-8)

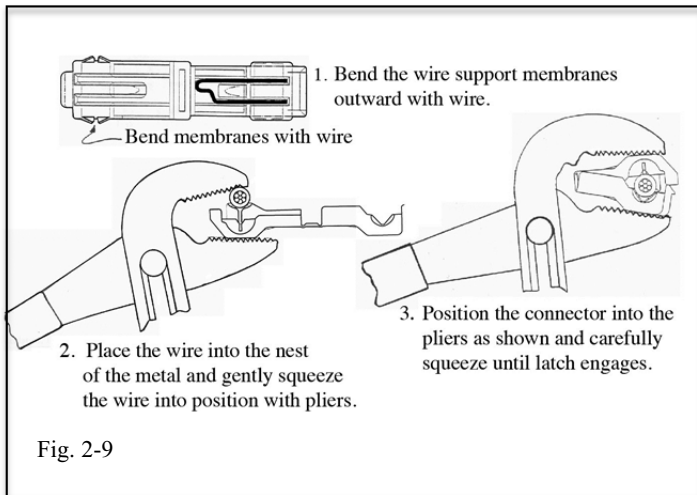


Fig. 2-9

- k) Review instructions on how to properly use wire taps, as shown. (Fig. 2-9)

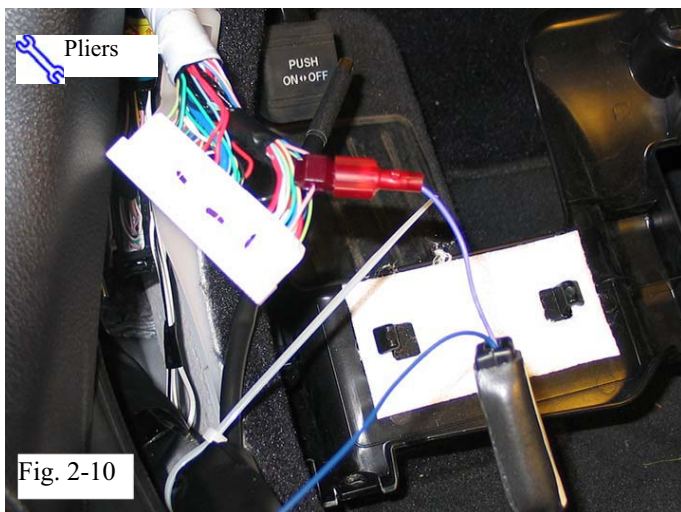
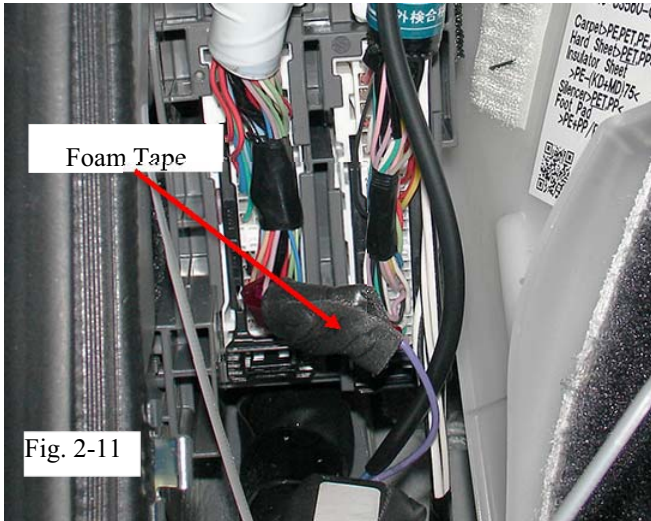


Fig. 2-10

- l) Apply a wire tap to the violet wire and connect violet wire from electronics module to wire tap. (Fig. 2-10)

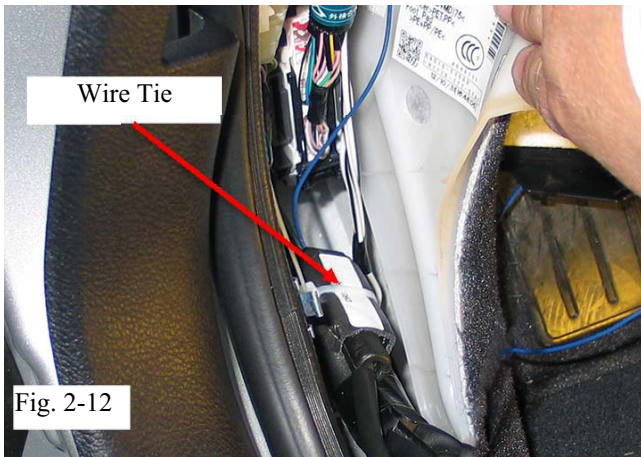


- m) Apply foam tape over wire tap and spade connector. Reattach black lock mechanism and reconnect to connector block.

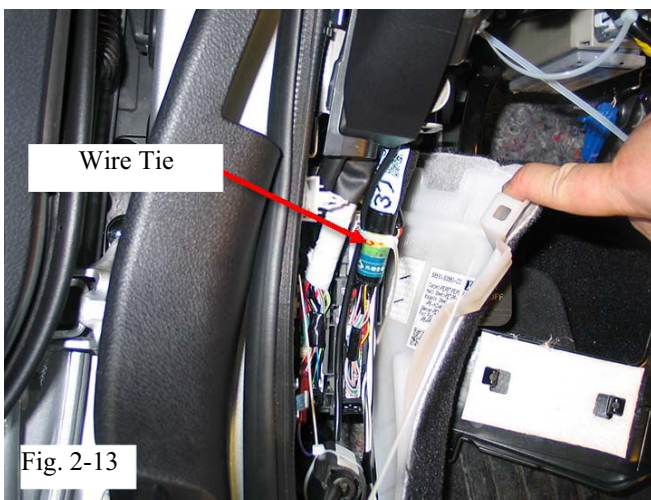


(Fig. 2-11)

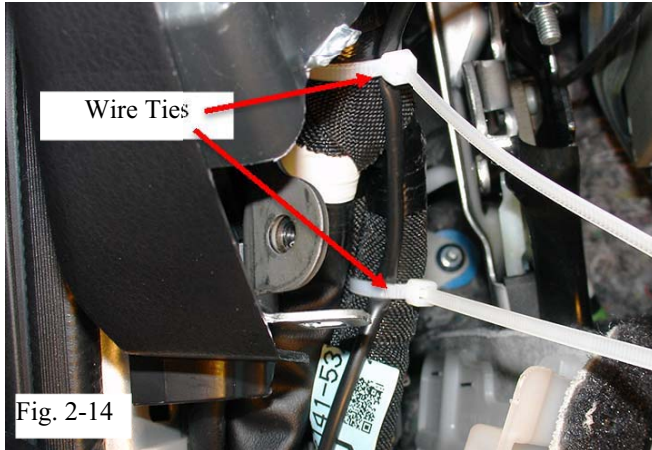
CAUTION: Make sure connector lock engages securely.



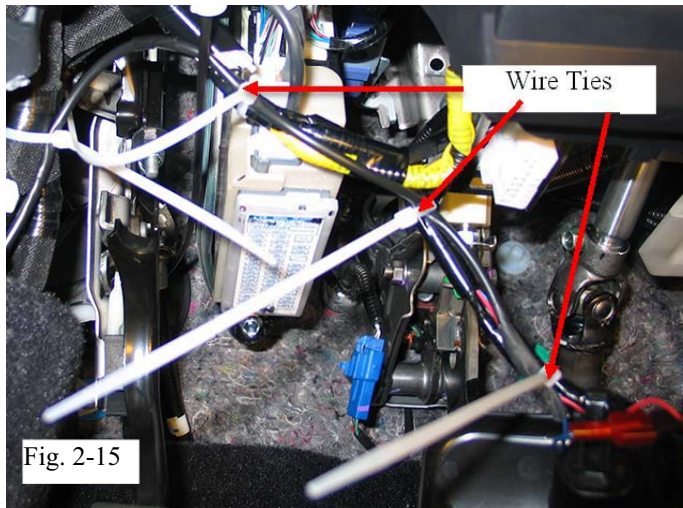
- n) Secure electronics module and harness to existing vehicle harness with one (1) wire tie as shown. (Fig. 2-12)



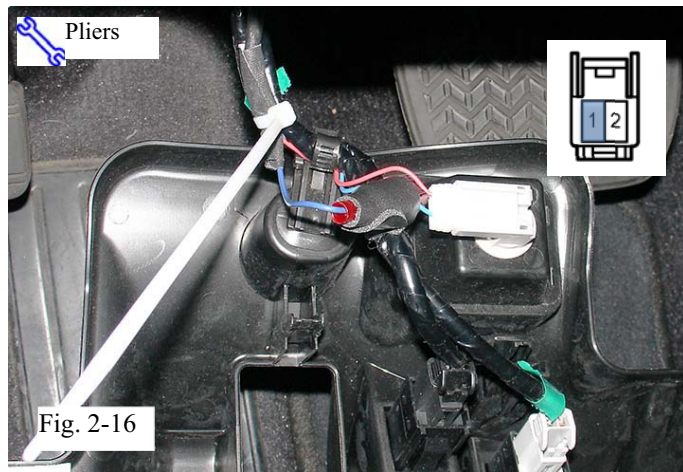
- o) Run long (blue) wire from electronics module up along vehicle wire harness and secure with one (1) wire tie as shown. (Fig. 2-13)



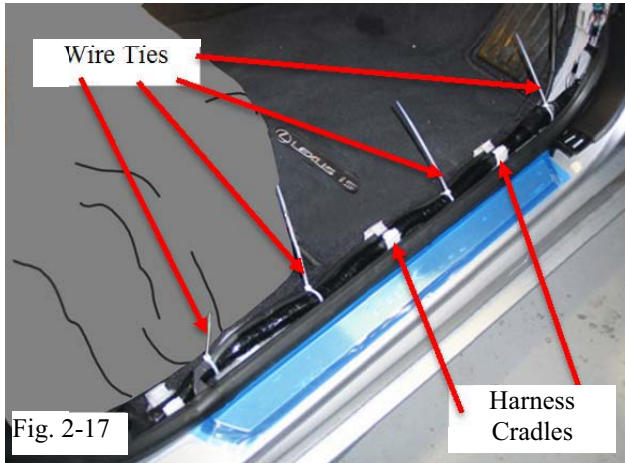
- p) Continue running wire up and secure with two (2) more wire ties as shown. (Fig. 2-14)



- q) Continue running wire along foot lamp harness and secure with three (3) wire ties as shown. Make sure you go above hood release cable. (Fig. 2-15)

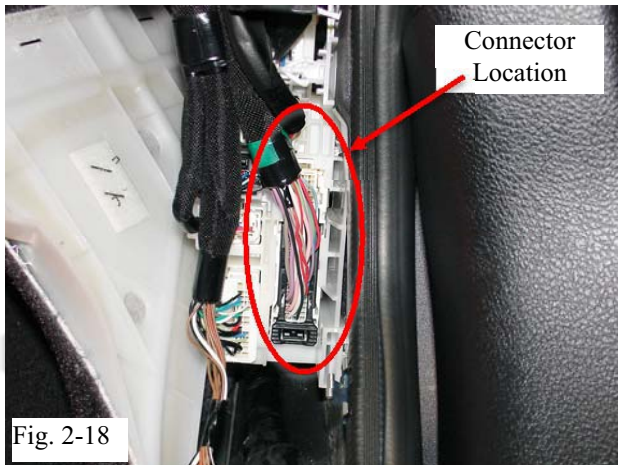


- r) Locate the blue wire (B[+], pin 1) on the driver side foot lamp connector as shown, apply a wire tap and connect the blue wire from the electronics module. Wrap wire tap and spade connector with foam tape and reconnect to foot lamp. (Fig.2-16)

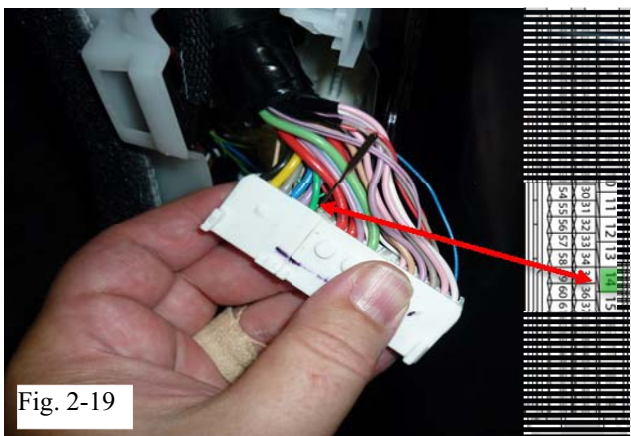


Passenger Side

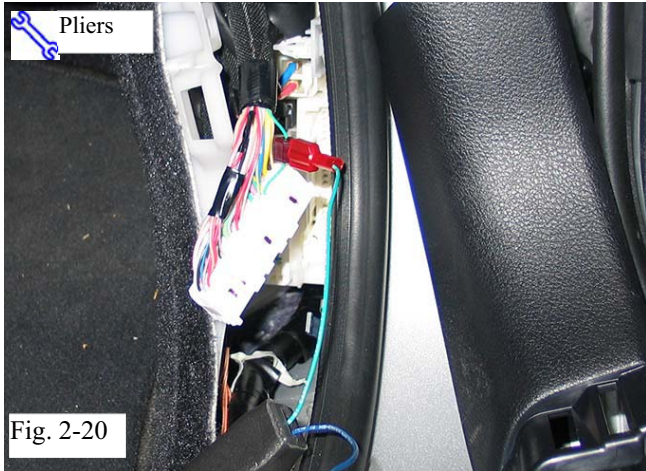
- s) Route door sill harness forward through the two (2) existing harness cradles, along the outside edge of the vehicle harness, and secure with four (4) wire ties, as shown, then insert optical wire harness from door sill into opening on electronics module as performed on driver side. (Fig. 2-17)



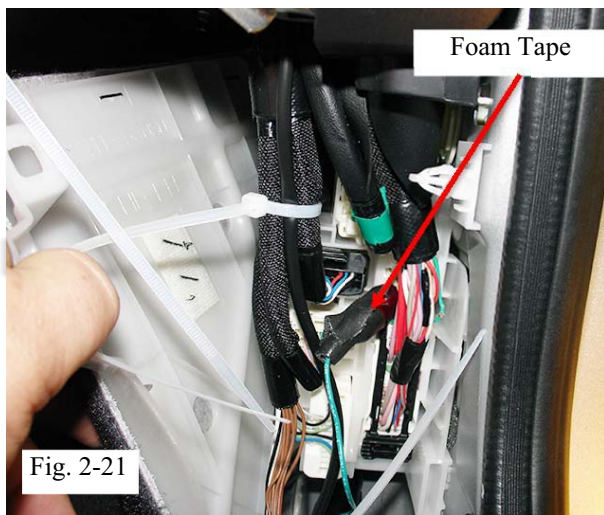
- t) Locate the 64 pin connector on the passenger side kick panel connector block as shown and. (Fig. 2-18)
- u) Remove from connector block as in step 2(h) and remove black locking mechanism from body of connector.



- v) Locate the green wire (CTY [-], pin 6) as shown. (Fig. 2-19)



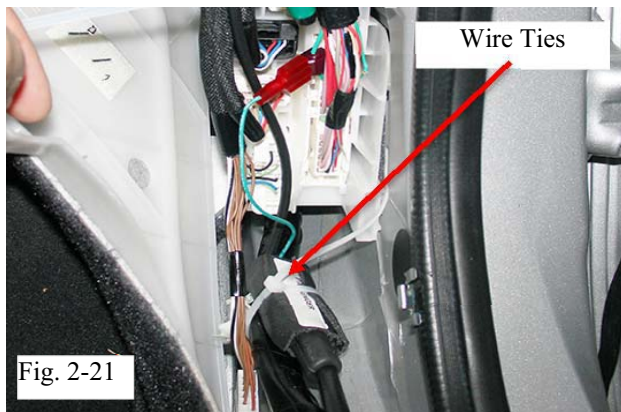
- w) Apply a wire tap to the green wire and connect green wire from electronics module to wire tap. (Fig. 2-20)



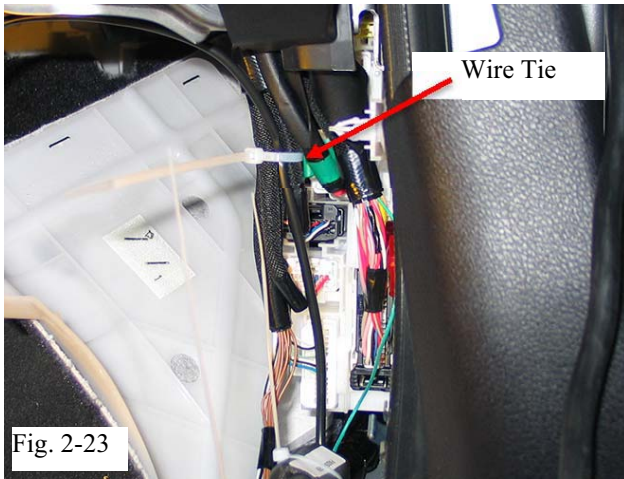
- x) Apply foam tape over wire tap and spade connector. Reattach black lock mechanism and reconnect to connector block. (Fig. 2-21)



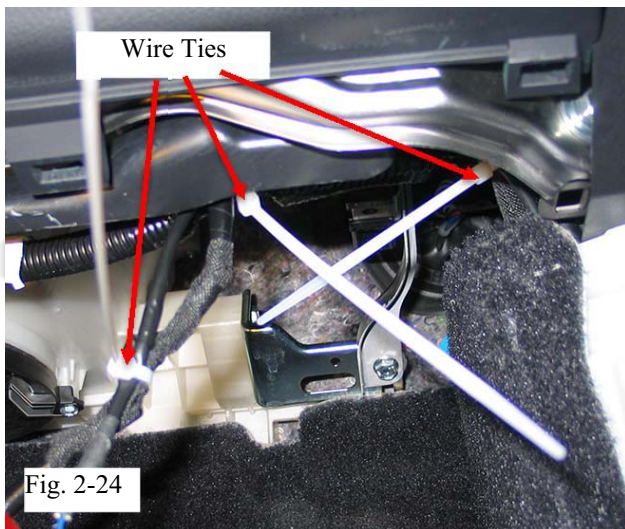
CAUTION: Make sure connector lock engages securely.



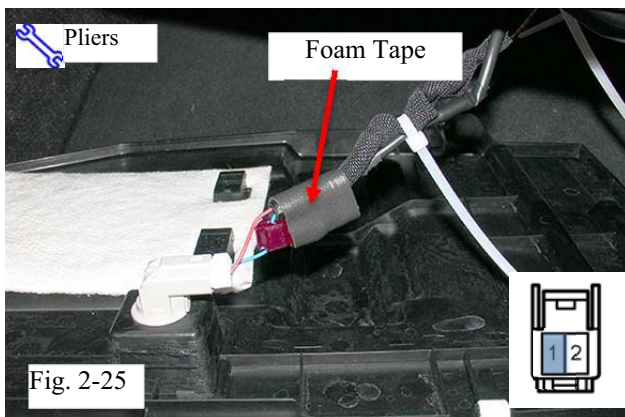
- y) Secure electronics module and harness to existing vehicle harness with one (1) wire tie as shown. (Fig. 2-22)



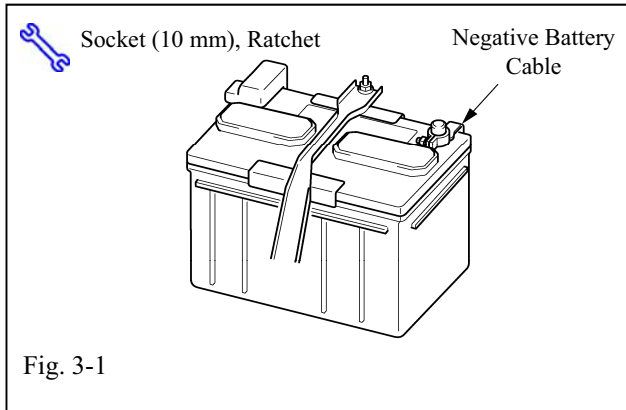
- z) Run long (blue) wire from electronics module up along vehicle wire harness and secure with one (1) wire tie as shown. (Fig. 2-22)



- aa) Continue running wire up and along foot lamp harness and secure with three (3) wire ties as shown. (Fig. 2-24)



- bb) Locate the blue wire (B[+], pin 1) on the passenger side foot lamp connector as shown, apply a wire tap and connect the blue wire from the electronics module. Align spade connector with wire harness and wrap wire tap and spade connector with foam tape and reconnect to foot lamp. (Fig. 2-25)
- cc) Trim all wire ties to length.



3. In Process Functional Test.

- a) Temporarily reconnect battery negative cable and install DCC cut fuse if necessary.
- b) Turn ignition key to ACC position.
- c) Confirm that illuminated doorsills function properly.
 - i. Door Open – Front Door Sills are illuminated.
 - ii. Door Closed – Front Door Sills are not illuminated.
- d) Disconnect battery negative cable and remove DCC cut fuse if installed in step a).

4. Reassemble Vehicle

- a) Reassemble Vehicle in opposite order that it was disassembled.
 - b) Reconnect the negative terminal back to its original position.
 - i. Tighten the nut with 6.0 N-m (53 lbf-in) of torque.
- ⚠ Torque: 6.0 N-m (53 lbf-in)**
- ii. Be careful not to touch the positive battery terminal.
 - c) Clean up and remove any trash.

Checklist - these points **MUST** be checked to ensure a quality installation.

Check:

Accessory Function Checks

Illuminated Door Sills

Look For:

*Verify the proper operation of the Illuminated Door Sills.

Door Open – Front Door Sills are illuminated.

Door Closed – Front Door Sills are not illuminated.

Vehicle Function Checks

Dome Light

Foot well lighting

Pre-Collision Sensor Switch

(The PCS Switch is located on the lower front kick panel on driver’s side. The light is located on the main dash cluster)

Proper operation of the dome light.

Proper operation of the foot well lighting.

- **Disable** the PCS switch to verify the warning light comes on.
- **Enable** the PCS switch and verify the warning light goes off.

Horn

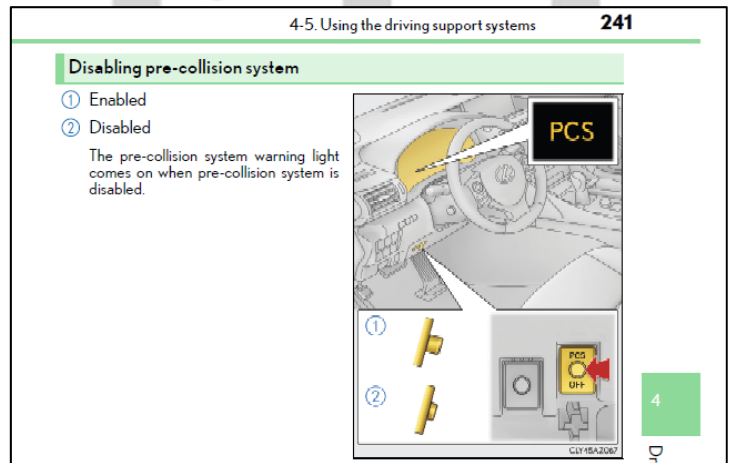
Park Brake Light

Reverse Lights

Proper operation of the horn.

Apply the Park Brake and confirm the Brake dash light comes on. (Leave the park brake on for the next step.)

Start the vehicle and move the shift lever into reverse. **With the Park Brake applied**, confirm the reverse lights come on.



Checklist - these points **MUST** be checked to ensure a quality installation.

Check:

High Beam dash light

Signal Lights

Hazard Lights

12v/cigarette outlet

Dimmer Switch

Audio

HVAC

Steering Controls

Skid Control (TRAC/VSC)

(The TRAC system switch is located near the shift lever. The light is located on the main dash cluster)

Look For:

Turn on the headlights, activate the high beams and verify the high beam dash light comes on.

Proper operation of the Signal Lights.

Proper operation of the Hazard Lights.

Proper operation of the outlet.

Proper operation of the Dimmer switch.

Proper operation of the Audio system.

Proper operation of the HVAC system.

Proper operation of the Steering Controls.

- Turn the TRAC system **off** and verify the warning light comes on.
- Turn the TRAC system **on** and verify the warning light goes off.

236 4-5. Using the driving support systems

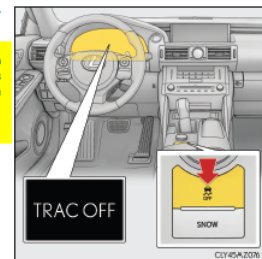
Disabling the TRAC/VSC systems

If the vehicle gets stuck in fresh snow or mud, the TRAC and VSC systems may reduce power from the engine to the wheels. Pressing VSC OFF switch to turn the system off may make it easier for you to rock the vehicle in order to free it.

■ **Turning off the TRAC system only**

To turn the TRAC system off, quickly press and release the switch.

The "TRAC OFF" will be shown on the multi-information display. Press the switch again to turn the system back on.



Vehicle Appearance Check

After accessory installation and removal of protective cover(s), perform a visual inspection.

Ensure no damage (including scuffs and scratches) was caused during the installation process.

(For PPO installations, refer to TMS Accessory Quality Shipping Standard.)