

Toyota

Prius

2010-

EC Rearview Mirror w/Home Link

Part Number: 00016-47100

Accessory Code: CM6



Conflicts

Vehicles with OE auto dimming mirror

Kit Contents

Item #	Quantity Req'd.	Description
1	1	AD Mirror Assembly w/ Homelink®
2	1	Hardware bag

Hardware Bag Contents

Item #	Quantity Req'd.	Description
1	3	T-tap Connectors, Red 3M™
2	1	Wire Cover
3	1	EC Wire Harness
4	9	Foam Tape
5	8	Wire Ties, small

Additional Items Required For Installation

Item #	Quantity Req'd.	Description

Recommended Tools

Personal & Vehicle Protection	Notes
Blankets, Towels	
Special Tools	Notes
Installation Tools	Notes
Ratchet	
Socket	10 mm
Screwdriver	Phillip's #2
Torx Head Driver	T20
Pliers	Needle Nose
Side cutters	
Nylon Panel Removal Tool	e.g. Panel Pry Tool #1 Toyota SST# 00002-06001-01
Dark Towel or Cloth	For Testing
Torque Wrench	48 in-lbs
Masking tape	
Electrical tape	
Wire fishing tool	(Optional)

Special Chemicals	Notes
Cleaner	VDC approved

General Applicability

All

Recommended Sequence of Application

Item #	Accessory
1	EC Rearview Mirror

*Mandatory

Vehicle Service Parts (may be required for reassembly)

Item #	Quantity Req'd.	Description

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.

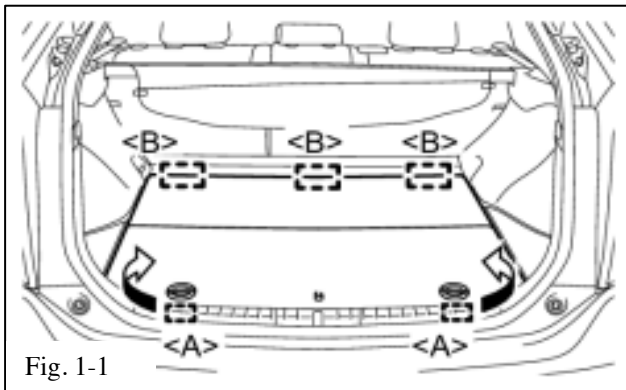
Procedure

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.).



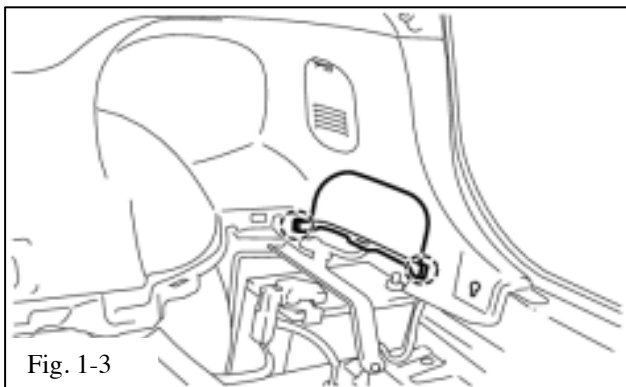
1. Remove Battery Cable.



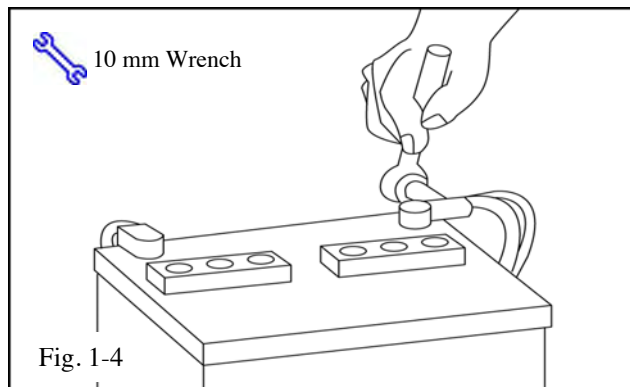
- (a) Protect fender before starting.
- (b) Disengage the two (2) guides <A> as shown in the illustration. (Fig. 1-1)
- (c) Disengage the three (3) guides and remove the floor board. (Fig. 1-1)
- (d) Remove the rear deck floor box.



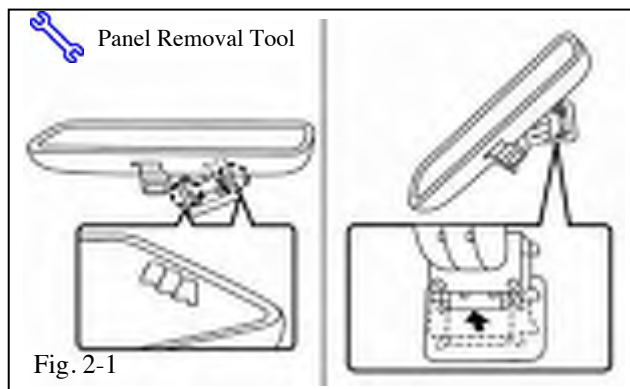
- (e) Disengage the two (2) guides and remove the right rear floor board. (Fig. 1-2)



- (f) Disengage the 2 claws and remove the rear floor board plate upper. (Fig. 1-3)

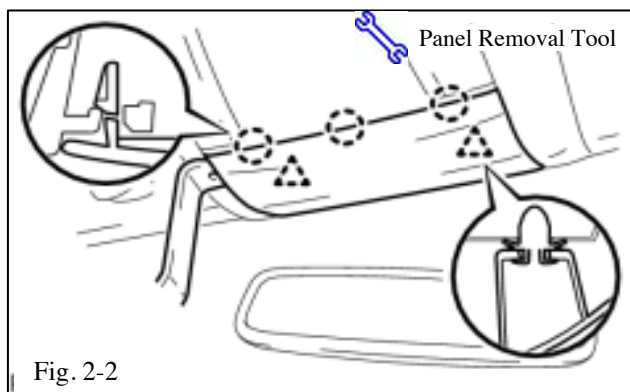


- + (g) Do not touch the positive terminal with any tool when removing cable.
- (h) Remove the negative battery cable.
(Fig. 1-4)

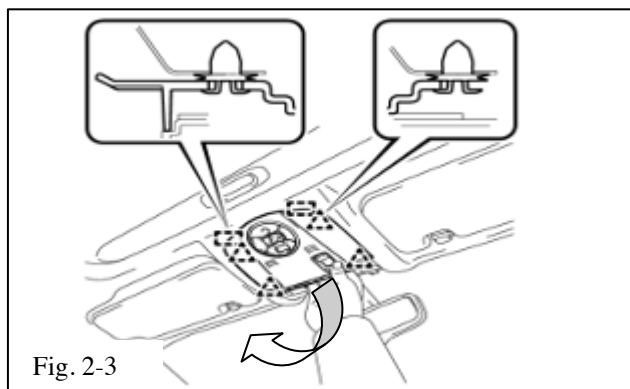


2. Vehicle Disassembly.

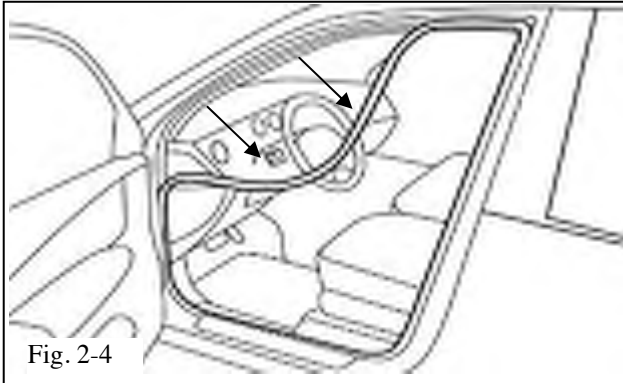
- (a) Remove the OE mirror.
 - (1) Disengage the two (2) claws and remove the mirror cover from the mirror base.
(Fig. 2-1)
 - (2) Pull the lever in the direction indicated by the arrow shown in the illustration and slide the inner rear view mirror assembly upward to remove it. (Fig. 2-1)



- (b) Using panel removal tool, disengage the three (3) claws and two (2) clips, and remove the roof top molding. (Fig. 2-2)



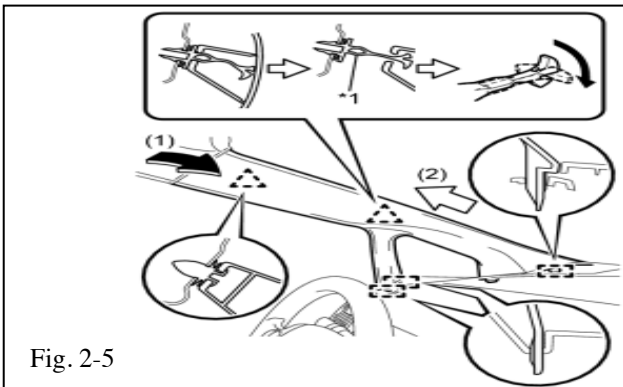
- (c) Using panel removal tool, remove map light assembly from headliner. (Fig. 2-3)
 - (1) Disconnect the map light connector.



(d) Pull weather-stripping down past top of A-pillar garnish. (Fig. 2-4)

(e) Detach A-pillar garnish from body.

(1) Pull the upper part of the garnish toward the inside of the cabin and disengage the two (2) clips. (Fig. 2-5)



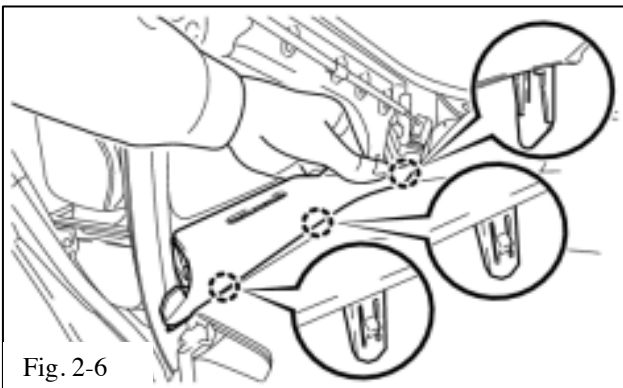
(2) Note the orientation of the clip.

(3) Rotate the center portion of the clip 90°, then pull the pillar garnish to release the tip of the clip from the pillar garnish. (Fig. 2-5)

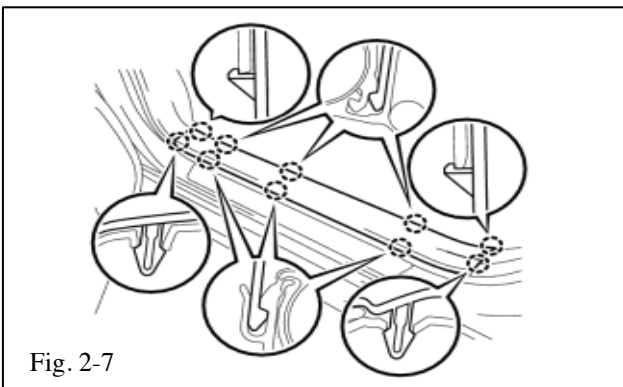
(1) If using needle-nose pliers to twist the clip, put masking tape around the jaws to prevent clip damage.

(4) **DO NOT** remove the clip from the A-pillar body. If the clip shows any signs of damage or is removed from the body, replace with a new clip.

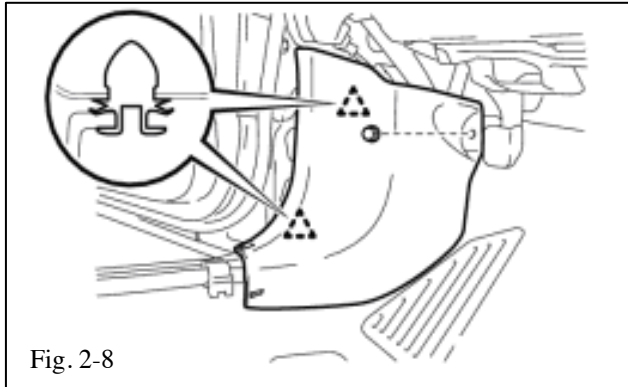
(5) Disengage the three (3) guides and remove the front pillar garnish. (Fig. 2-5)



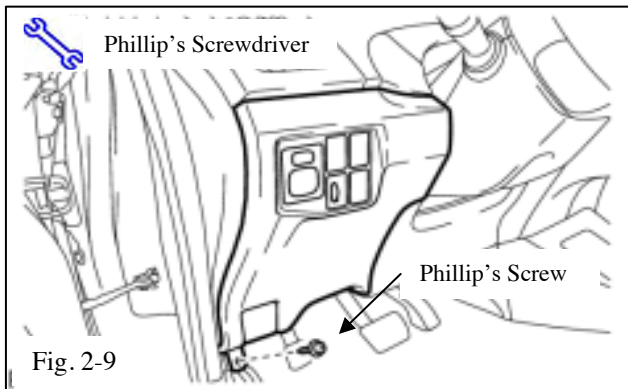
(f) Disengage the three (3) claws and front pillar garnish corner piece as shown in illustration. (Fig. 2-6)



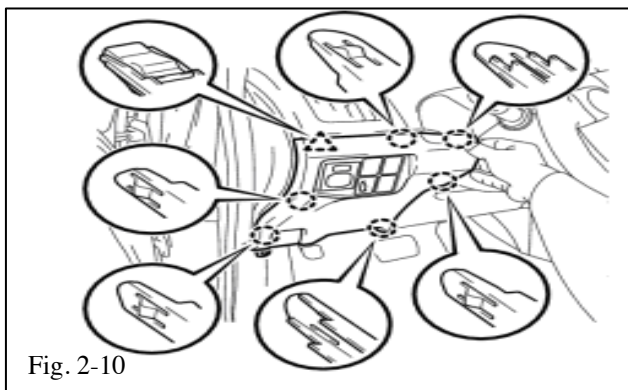
(g) Remove the driver side inner door scuff plate. (Fig. 2-7)



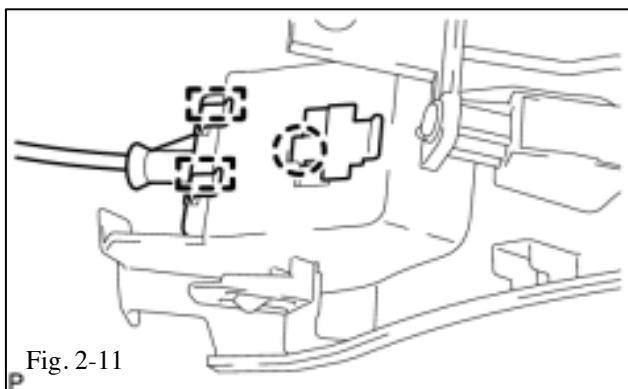
- (h) Remove the driver side cowl cover.
(Fig. 2-8)



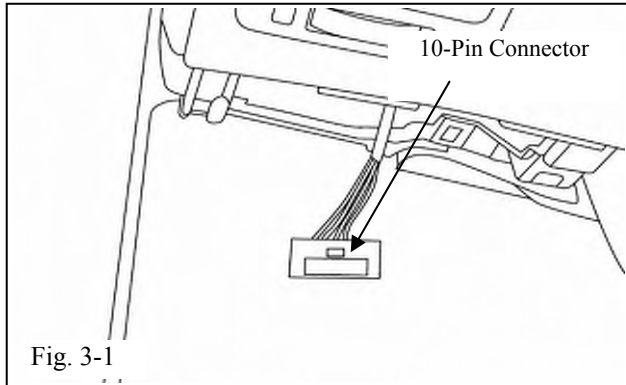
- (i) Remove the Lower IP panel.
(1) Remove the Phillip's screw from the lower IP as shown in illustration.
(Fig. 2-9)



- (2) Disengage the six (6) claws and clip as shown in the illustration. (Fig. 2-10)
(3) Disconnect any connectors connected to the lower IP.

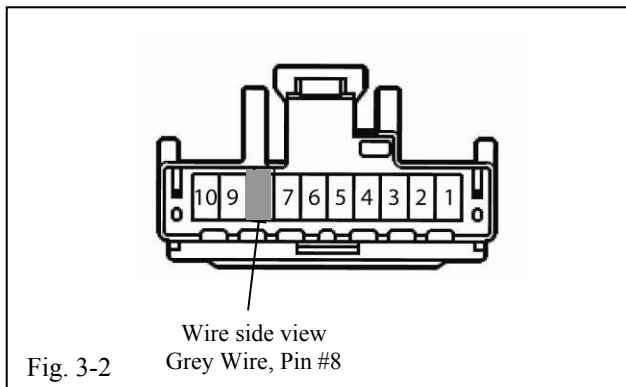


- (4) Disengage the claw and 2 guides and disconnect the hood lock control cable.
(Fig. 2-11)

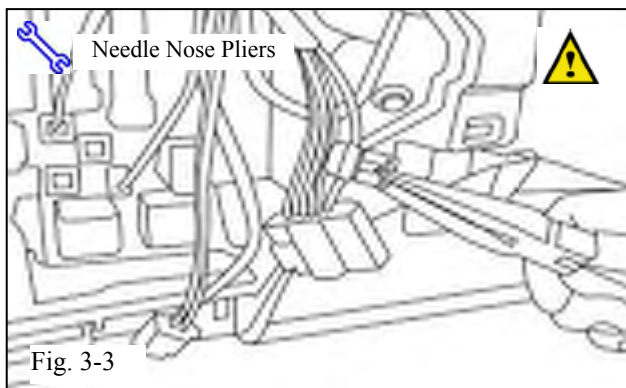


3. Install T-Taps.

- (a) Locate the disconnected 10 pin Outer Mirror Switch connector. (Fig. 3-1)



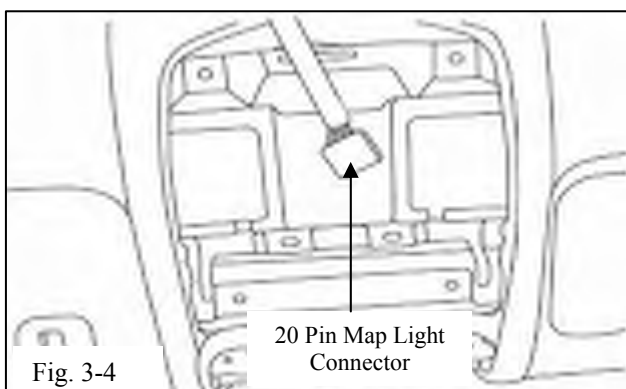
- (b) Locate the GREY wire in pin #8 on the 10 pin connector. (Fig. 3-2)



- (c) Attach T-tap connector to GREY wire (pin #8) on the 10 pin connector with needle nose pliers about 1 inch from the connector. (Fig. 3-3)

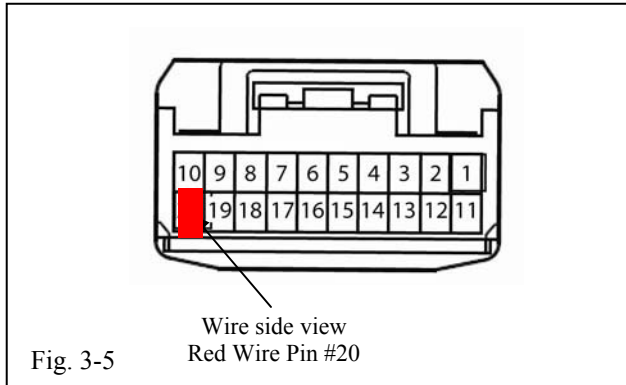


- (1) Ensure both halves of T-tap connector are snapped together.



- (d) Locate the disconnected 20 pin Map Light connector (non sunroof models) or the disconnected 24 pin Map Light connector (sunroof models). (Fig. 3-4)

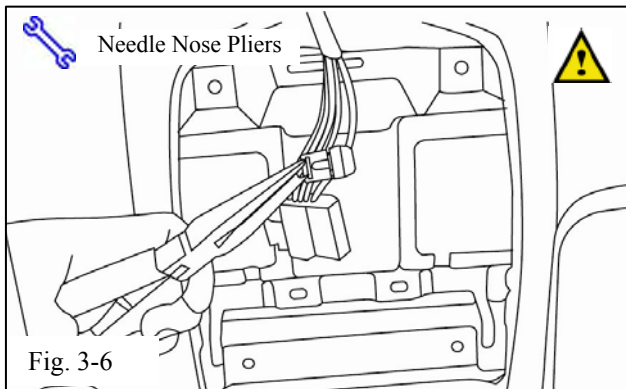
- (1) Cut a 1 inch slit in the wire cover to expose the wires.



For non-sunroof vehicle's begin on step (e).

For sunroof vehicle's, skip to step (i).

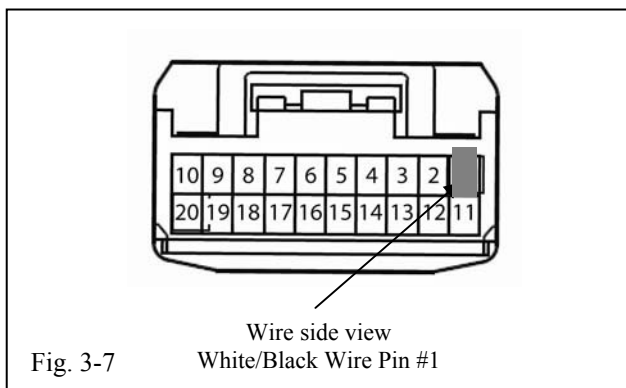
- (e) Locate the RED wire in pin #20 on the 20 pin connector. (Fig. 3-5)



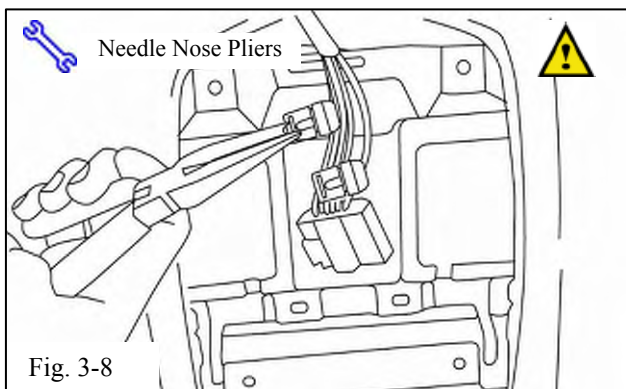
- (f) Attach T-tap connector to RED wire (pin #20) on the 20 pin connector with needle nose pliers about 1 inch from the connector. (Fig. 3-6)



- (1) Ensure both halves of T-tap connector are snapped together.



- (g) Locate the WHITE / BLACK wire in pin #1 on the 20 pin connector. (Fig. 3-7)

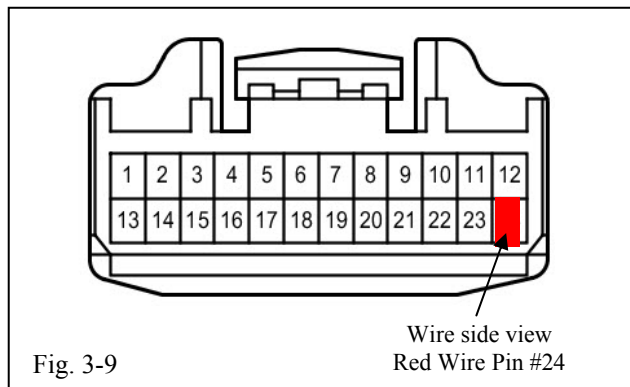


- (h) Attach T-tap connector to WHITE / BLACK wire (pin #1) on the 20 pin connector with needle nose pliers about 1 inch from the connector. (Fig. 3-8)

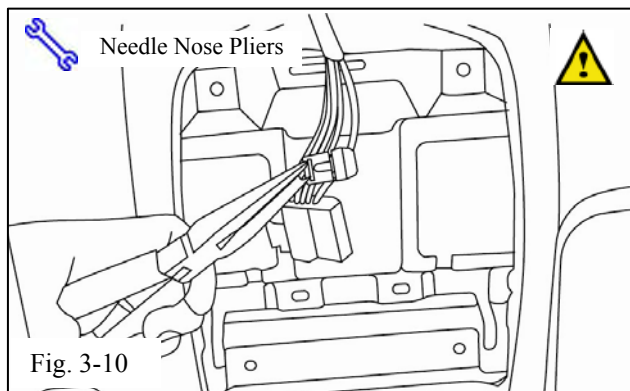


- (1) Ensure both halves of T-tap connector are snapped together.

Skip to step 4.

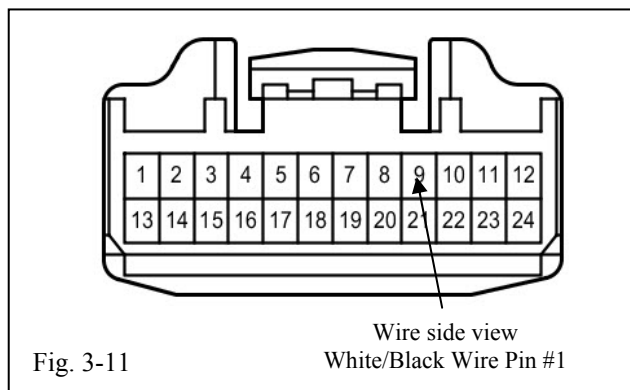


- (i) Locate the RED wire in pin #24 on the 24 pin connector. (Fig. 3-9)

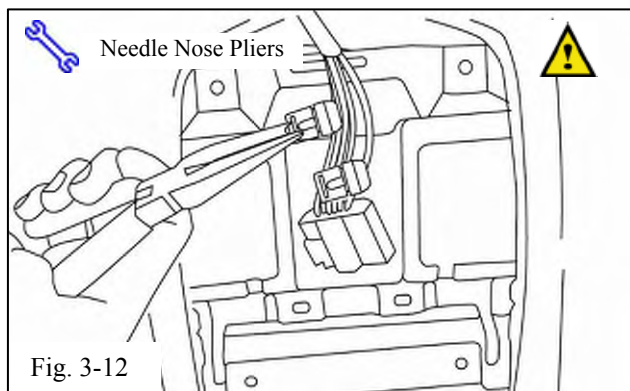


- (j) Attach T-tap connector to RED wire (pin #24) on the 24 pin connector with needle nose pliers about 1 inch from the connector. (Fig. 3-10)

- ⚠ (1) Ensure both halves of T-tap connector are snapped together.

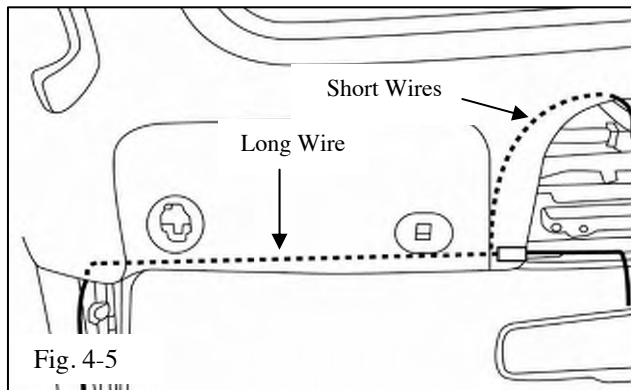


- (k) Locate the WHITE / BLACK wire in Pin #9 on the 24 pin connector. (Fig. 3-11)

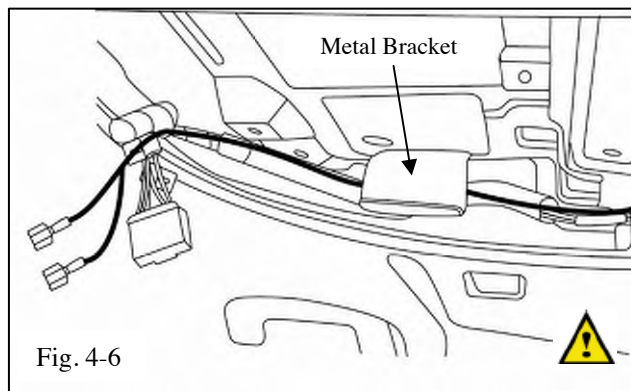


- (l) Attach T-tap connector to WHITE / BLACK wire (pin #9) on the 24 pin connector with needle nose pliers about 1 inch from the connector. (Fig. 3-12)

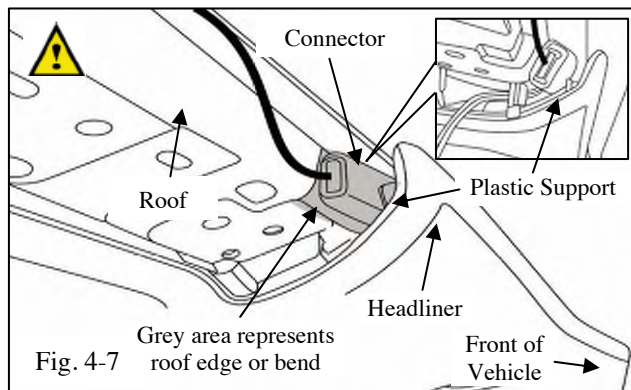
- ⚠ (1) Ensure both halves of T-tap connector are snapped together.



- (1) Route the longer wire harness toward the A-pillar along the bottom curve of the head liner. (Fig. 4-5)

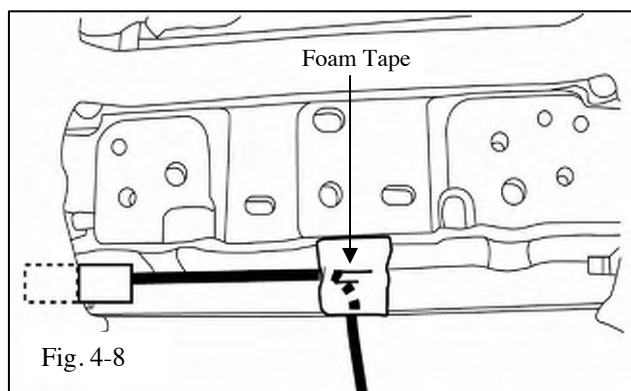


- (2) Route the shorter harness to the rear of the overhead console opening toward the overhead console connector. (Fig. 4-6)
- (3) Make sure the harness is routed behind the metal bracket located on the drive side of the console opening. (Fig. 4-6)



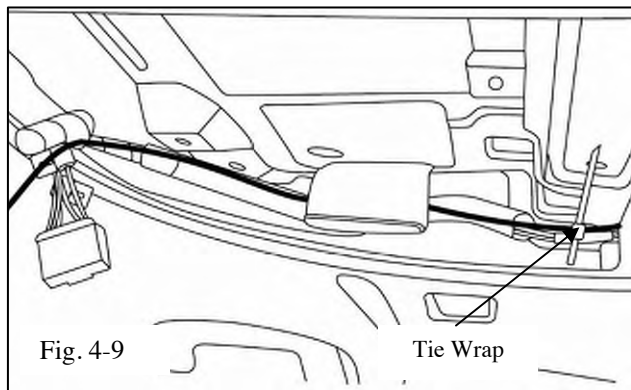
- (4) Position the EC mirror connector in-between the headliner and the plastic support. (Fig. 4-7)

- (1) The connector should sit snugly between the headliner and the roof edge when the headliner is in the installed position.

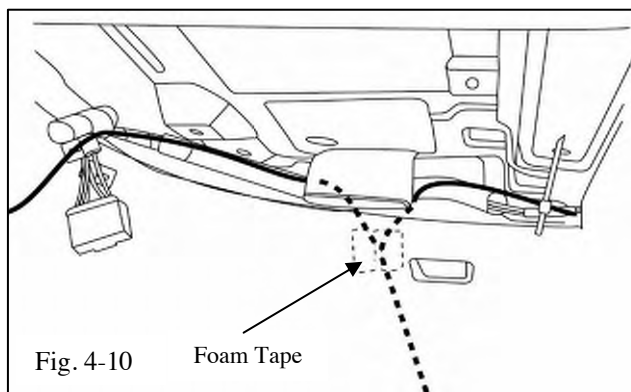


- (2) Make sure the connector is oriented so the headliner can be installed properly without any gaps.

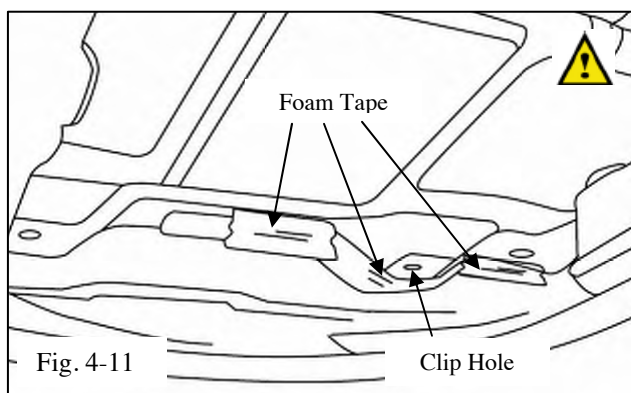
- (e) Secure the EC harness to the center of the inside edge of the roof with one (1) piece of foam tape. (Fig. 4-8)



- (f) Secure the short harness to the OE harness with one (1) tie wrap as shown. (Fig. 4-9)



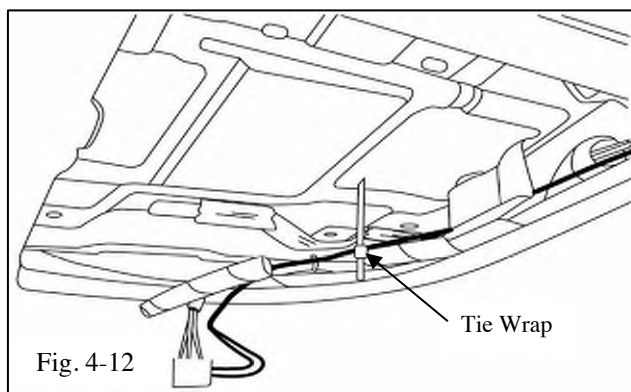
- (g) Secure the short harness to the OE harness on top of the headliner with one (1) piece of foam tape. (Fig. 4-10)
- (1) The harness should be secured with the foam where the OE harness splits into a Y.



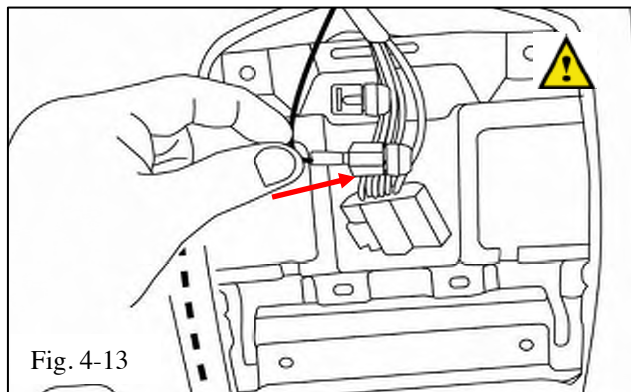
- (h) Clean the bracket area to the rear of the overhead console opening with a VDC approved cleaner.
- (i) Cover the sharp edges of the overhead roof with three (3) pieces of foam tape as shown. (Fig. 4-11)



- (1) Make sure the clip hole is not covered.



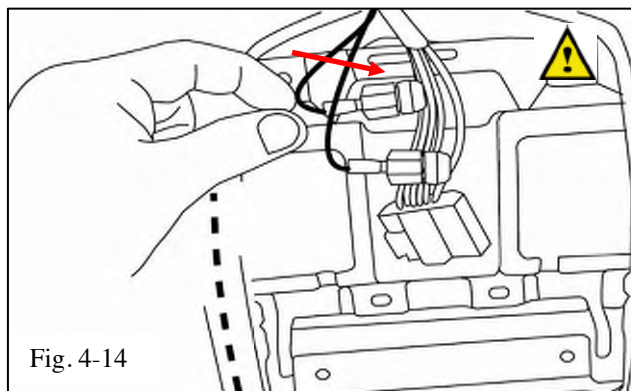
- (j) Secure the short harness to the OE harness with one (1) tie wrap as shown. (Fig 4-12)



- (k) Plug the BLACK / RED wire spade end of the EC mirror harness into T-tap connector on the RED wire. (Fig. 4-13)



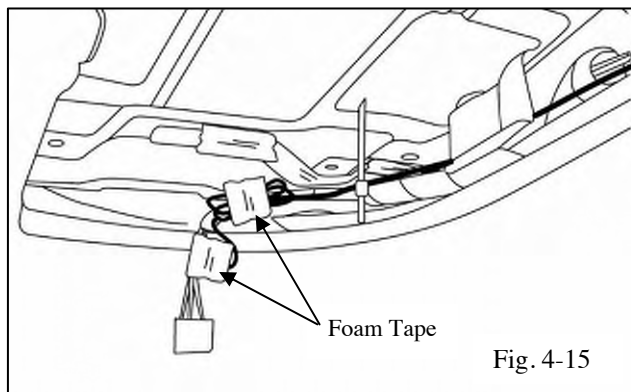
- (1) Ensure that the spade end is properly seated into the T-tap.



- (l) Plug the BLACK wire spade end of the EC mirror harness into T-tap connector on the WHITE / BLACK wire. (Fig. 4-14)

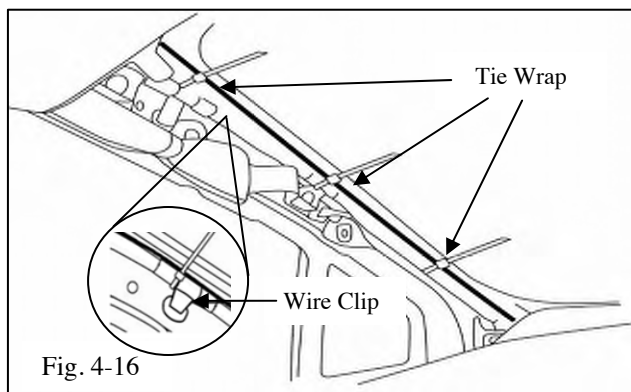


- (1) Ensure that the spade end is properly seated in the T-tap.



- (m) Bundle any excess wire and secure it to the OE harness with one (1) piece of foam tape as shown. (Fig. 4-15)

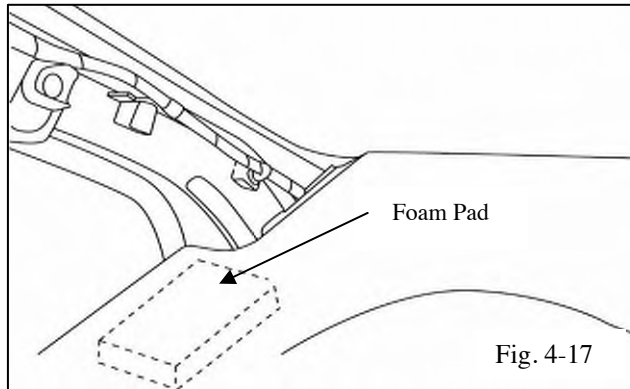
- (n) Put one (1) piece of foam tape around the two T-taps.



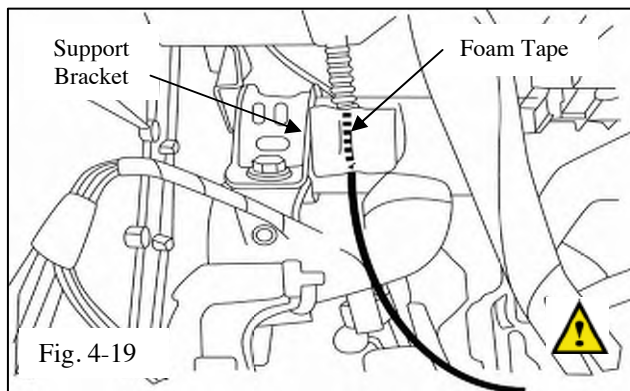
- (o) Route harness down vehicle A-pillar above the OE harness. Secure the wire harness to the OE harness using three (3) tie wraps in front of each wire clip. (Fig. 4-16)



- (1) Verify mirror harness will not interfere with airbag deployment.



- (p) Temporarily remove foam pad from under dash, near A-pillar, in order to route harness. (Fig. 4-17)



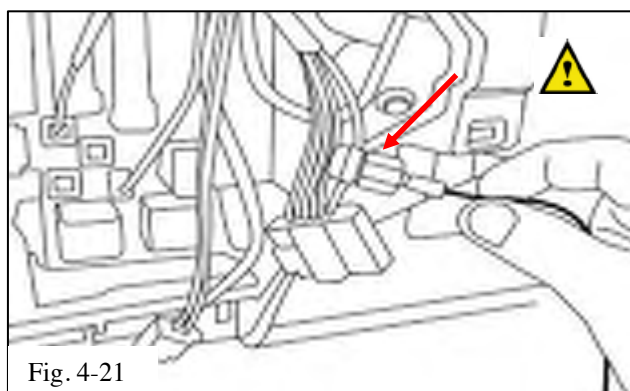
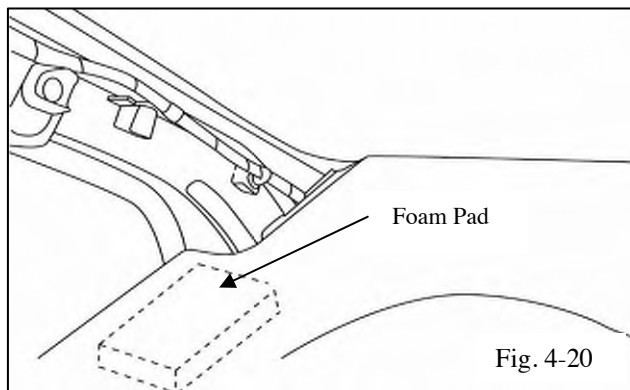
- (q) Carefully route harness through center dash panel, over the support bar. If necessary, use a wire fish tool. Clean the support bar with a VDC approved cleaner and secure the harness to the support bar using one (1) piece of foam tape.



- (1) Use care when routing through the center dash, as there are many sharp edges. (Fig. 4-19)

- (2) Make sure the harness between the A pillar and support bar is not loose and will not cause rattle noise.

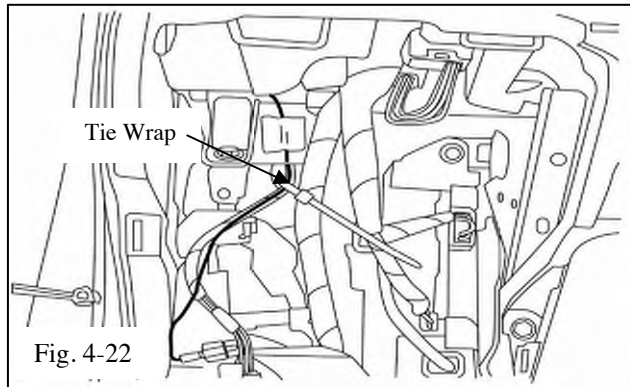
- (3) Reinstall the foam pad to its original position near the A pillar. (Fig. 4-20)



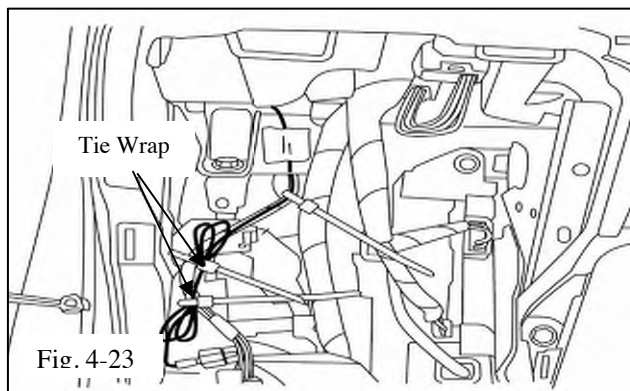
- (r) Plug the BLACK wire spade end of the EC mirror harness into T-tap connector on the GREY wire. (Fig. 4-21)



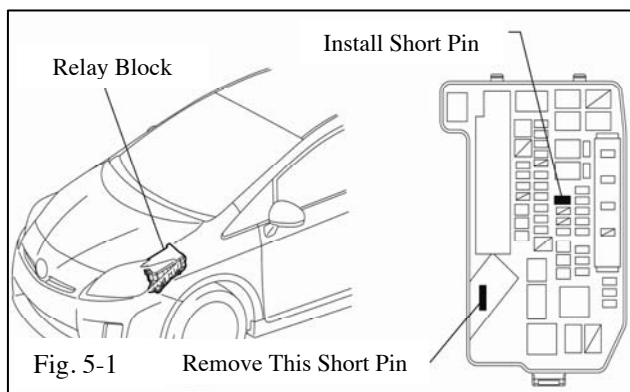
- (1) Ensure that the spade end is properly seated in the T-tap.



- (s) Secure the harness to the OE harness with one (1) tie wrap as shown. (Fig. 4-22)

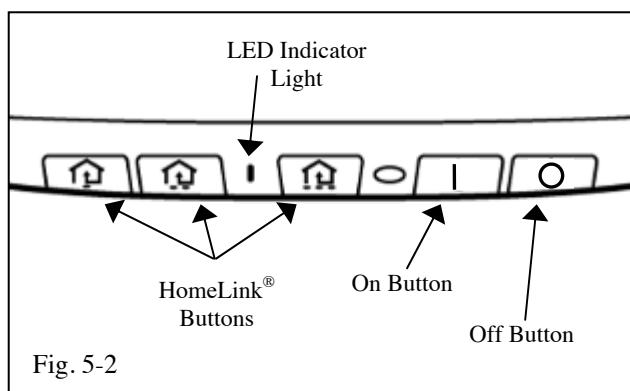


- (t) Bundle the excess harness and secure it to the Outer Mirror Switch harness as shown with two (2) tie wraps. (Fig. 4-23)



5. Testing.

- (a) If necessary, install the short pin located in the engine compartment relay block. (Fig. 5-1)
- (b) Temporarily reconnect the negative battery terminal.
- (c) HomeLink® Feature:

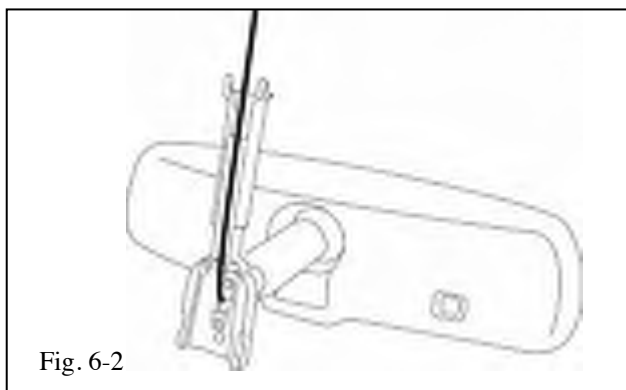
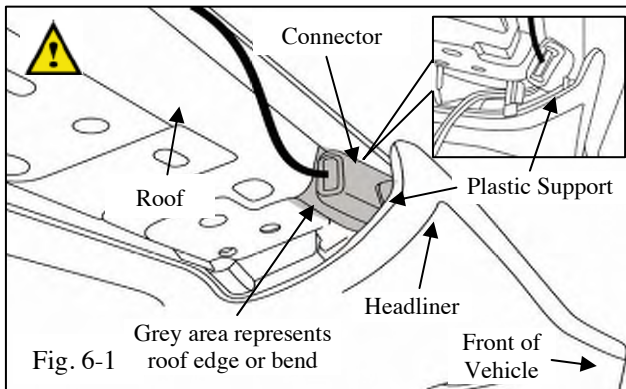
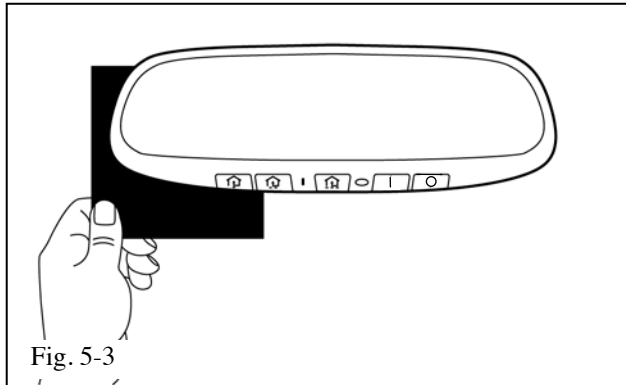


- (1) Push in HomeLink® switches, one at a time. Verify that the LED Indicator light is red when each switch is pushed. (Fig. 5-2)

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NOTE: The owner of the vehicle will need to program HomeLink®. See the HomeLink® programming instructions or visit the HomeLink® website at www.homelink.com.

- (d) Turn ignition switch to ON.



- (e) With the vehicle in a fairly well lit area, perform the following test:
- (f) Auto Dimming Feature:
 - (1) To make sure the auto-dimming feature is on, verify that the LED indicator light is on. If it is not on, push the "On" button to turn the LED on.
 - (2) Cover the forward-looking light sensor located on the back of the mirror with a dark cloth or towel. (Fig. 5-3)
 - (3) In a few seconds, the mirror will begin to darken (time may vary with ambient light levels).
 - (4) Remove the cover from the forward-looking light sensor and the mirror will begin to clear.
- (g) Turn the ignition OFF.
- (h) Disconnect the negative battery terminal.

6. Final Assembly.

- (a) Trim excess off all tie wraps.
- (b) Re-install the driver side sun visor assembly, visor clip, and hinge cover.
 - (1) Make sure the EC mirror connector is properly positioned between the headliner and the roof edge so there are no gaps when reinstalling the headliner. (Fig. 6-1)
- (c) Reconnect the map light connector and install the overhead console.
- (d) Re-install roof top molding.
- (e) Install the wire cover over the EC mirror wire harness. (Fig. 6-2)
 - (1) Seat the bottom of the cover securely to base.

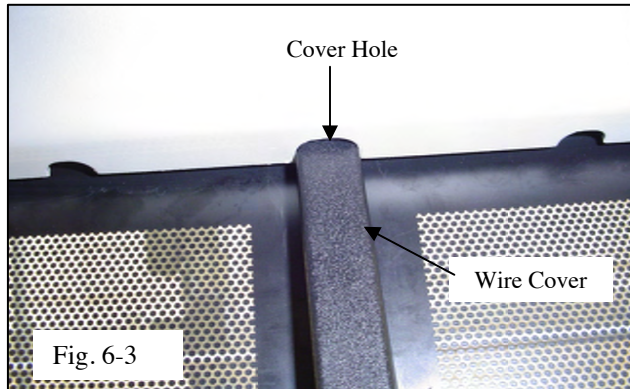


Fig. 6-3

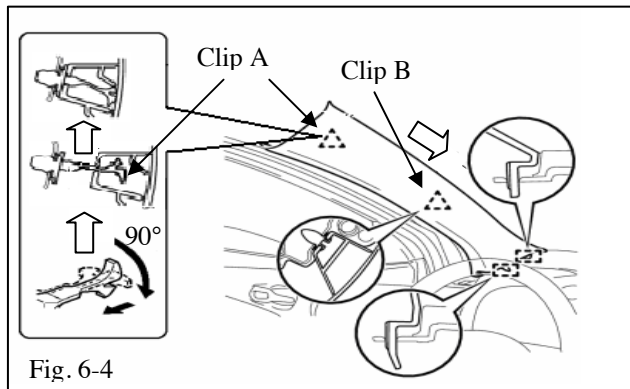


Fig. 6-4

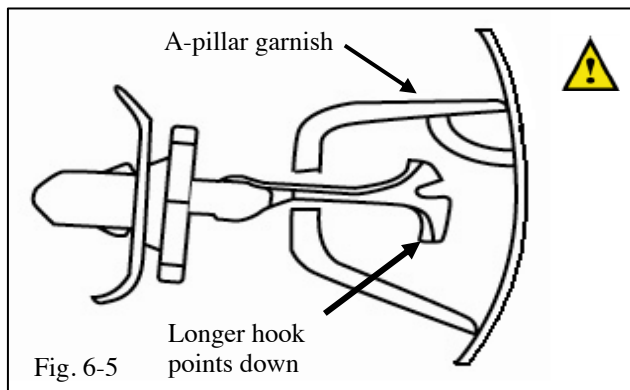


Fig. 6-5

- (2) Extend the top of the cover fully into headliner.
- (3) For vehicle's that have access holes cut into the molding, ensure the wire cover is placed through the hole and butted up against the cover. (Fig. 6-3)

(f) Re-install the driver side IP.

(1) Reconnect any disconnected connectors.

(2) Reattach the hood cable.

(g) Re-install the driver side cowl cover.

(h) Re-install the driver side door scuff plate.

(i) Re-install front pillar garnish corner piece.

(j) Re-install the A pillar garnish.

(1) Inspect the center clip. If it is damaged, replace it.

(2) Set the claws of the lower A pillar garnish into the upper IP.

(3) Insert the tip of clip A into the pillar garnish's hole and rotate the tip of the clip 90°. If necessary, use needle-nose pliers with taped jaws to prevent clip damage. (Fig. 6-4)



(1) Make sure the clip is in the proper orientation. (Fig. 6-5)



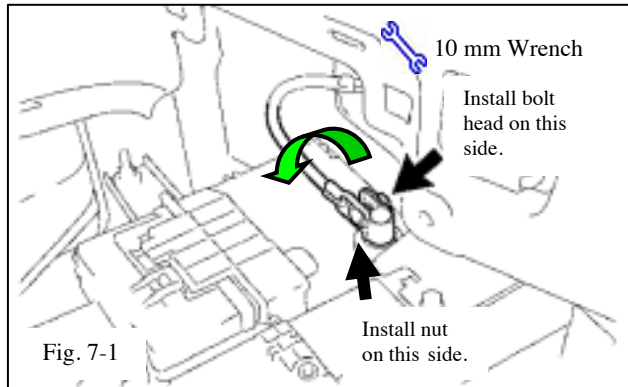
(4) Ensure that the clip is properly secure in the A pillar garnish, and that the clip is properly engaged in the garnish when in the deployed position.



(5) Before installing the A pillar garnish, be sure the air bag or wire harnesses will not get pinched or tangled.


(6) Push the pillar garnish toward the vehicle body to attach the base of the center clip.

(k) Reinstall the weather seal.



- (l) Ensure components are securely fastened and do not interfere with existing OE or EC harnesses.
- (m) Remove fingerprints, smudges, dirt, etc. from mirror and windshield with a VDC approved cleaner.
- (n) Verify each reinstalled component for proper fit and function.

7. Reconnect Negative Battery Cable.

- (a) Remove and reverse the direction of the bolt and nut from the negative battery terminal so that the nut can be accessed with a torque wrench. (Fig. 7-1)
- (b) Tighten the negative battery cable.
 - (1) Position the negative battery cable at the original factory position.
 - (2) Tighten the nut with 5.4 N-m (48 lbf-in) of torque.
-  (3) Do not touch the positive battery terminal with any tool when replacing the cable.
- (c) Re-install rear floor board plate upper.
- (d) Re-install the right rear floor board.
- (e) Re-install the rear deck floor box.
- (f) Re-install the rear floor board.
- (g) Perform vehicle function checks.

VEHICLE FUNCTION CHECK

AFTER ALL PANELS, COVERS, AND COMPONENTS HAVE BEEN REINSTALLED, THAT WERE REMOVED, TEST THOROUGHLY, ALL MECHANICAL AND ELECTRICAL COMPONENTS DISCONNECTED AND OR REMOVED FROM THE VEHICLE DURING THE INSTALLATION OF THIS ACCESSORY.

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

Check:

Look For:

Accessory Function Checks

Vehicle should be in a fairly well lit area.

Homelink® feature:

- ☐ Push in Homelink® switches with key in AND out of the key slot.
- ☐ Turn ignition (ACC power) to ON.

Verify LED indicators turn red.

Verify green LED is on. If it is not ON press On button - confirm LED is ON.

Auto-dimming feature:

- ☐ Cover the forward-looking light sensor (located below the wire harness connection on the back of the mirror).

Verify mirror darkens.

Mirror clears:

- ☐ Remove cover from photocell.

Mirror returns to clear state.

Vehicle Function Checks

- ☐ Check map lights.
- ☐ Check power outside mirrors.
- ☐ Check security system if equipped.
- ☐ Check dimmer switch.
- ☐ Check driver side visor lamp.
- ☐ Check function of the hood latch cable.

Verify map lights function properly.

Verify power mirrors function properly.

Verify security system works properly.

Verify dimmer switch functions properly.

Verify drive side visor lamp functions

Verify hood latch operates properly.