Part Number: PT374-02090

Kit Contents

Item #	Quantity Reqd.	Description
1	1	AD Mirror Assembly w/ PRNDL
2	1	Hardware bag

Hardware Bag Contents

Item #	Quantity Reqd.	Description
1	2	T-tap Connectors, Red 3M™
2	1	Wire Cover (short)
3	1	Wire Cover (long)
4	1	EC Wire Harness
5	9	Foam Tape
6	6	Wire Ties, small
7	1	Corrugated tubing
8	1	Operation Instruction Card

Additional Items Required For Installation

Item #	Quantity Reqd.	Description

Conflicts

None

Recommended Tools

Personal & Vehicle Protection	**Notes**
Blankets, Towels	
Special Tools	**Notes**
None	
Installation Tools	**Notes**
Ratchet	
Socket	10 mm
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 lbf-in (5.4 N-m)
Masking tape	
Electrical tape	
Special Chemicals	**Notes**
Cleaner	VDC approved

General Applicability

All 2008 and newer xB models.

Recommended Sequence of Application

Item #	Accessory
1	Security System
2	RES
3	Auto-Dimming Mirror
4	Satellite Radio
5	Overhead Console

*Mandatory

Vehicle Service Parts (may be required for reassembly)

Item #	Quantity Reqd.	Description
1	As necessary	A-Pillar clip – see EPC for current part number
1	1	74318-52020-B1, Driver side visor clip cover

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 Scion dealer for a copy of this document.

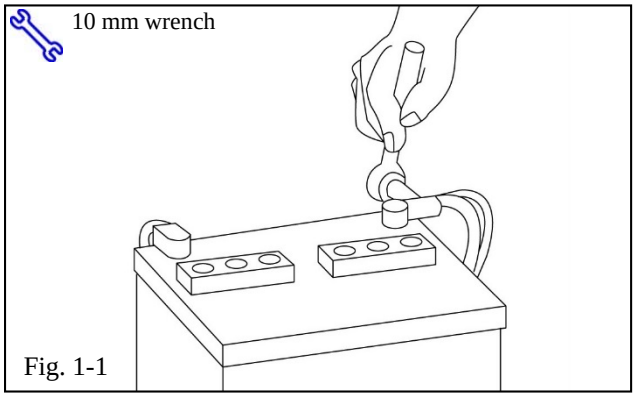


Fig. 1-1

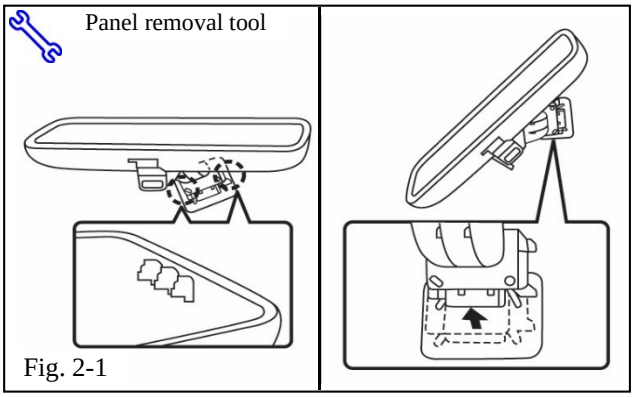
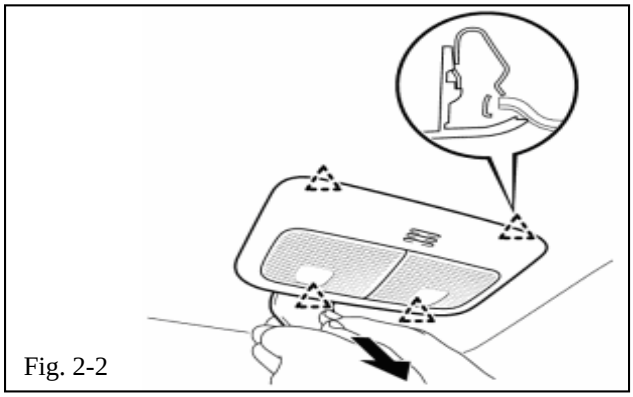


Fig. 2-1


Fig. 2-2

1. Remove the Battery Cable.

(a) Protect the fender before starting.

(b) Remove the negative battery cable (Fig. 1-1).

NOTE: Do not touch the positive terminal with any tool when removing cable.

2. Disassemble the Vehicle.

(a) Remove the OE mirror.

(1) Disengage the two claws and remove the mirror cover from the mirror base (Fig. 2-1).

(2) Pull the lever in the direction indicated by the arrow and slide the inner rear view mirror assembly upward to remove it (Fig. 2-1).

(b) Use a panel removal tool to remove the overhead console from the headliner (Fig. 2-2).

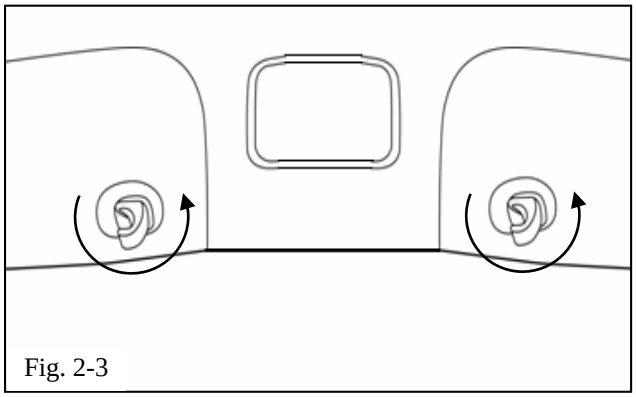


Fig. 2-3

(c) Remove both driver side and passenger side sun visor clips by rotating them counterclockwise about 45° (Fig. 2-3).

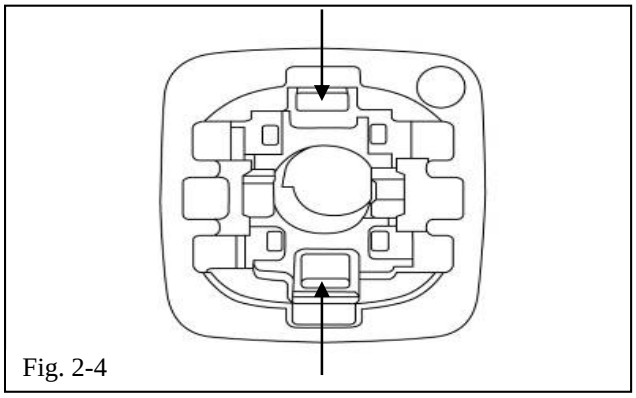


Fig. 2-4

(d) Remove both driver side and passenger side visor clip bases by pressing in on the two inner tabs (Fig. 2-4).

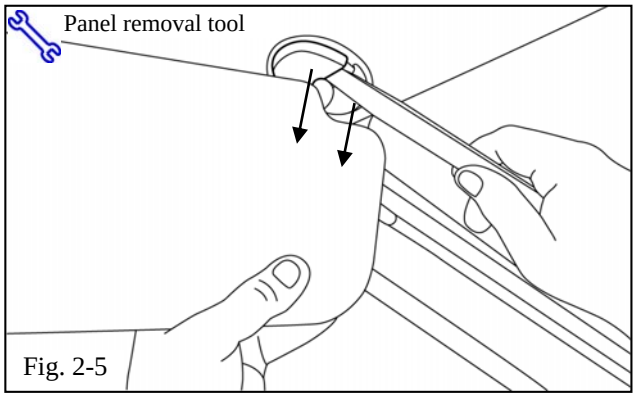


Fig. 2-5

(e) Use a panel removal tool to pry the DRIVER SIDE visor mount cover off of the visor mount (Fig. 2-5).

NOTE: DO NOT fully remove the cover.

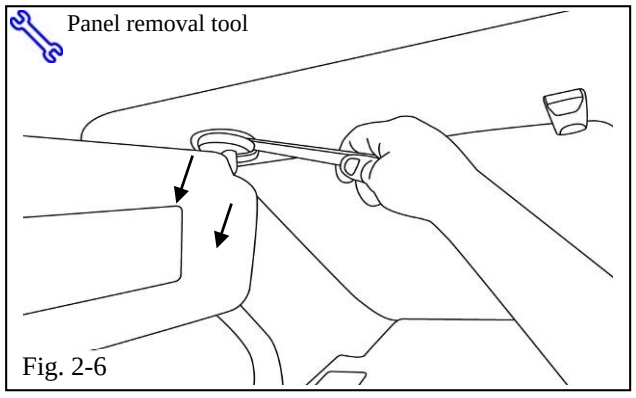
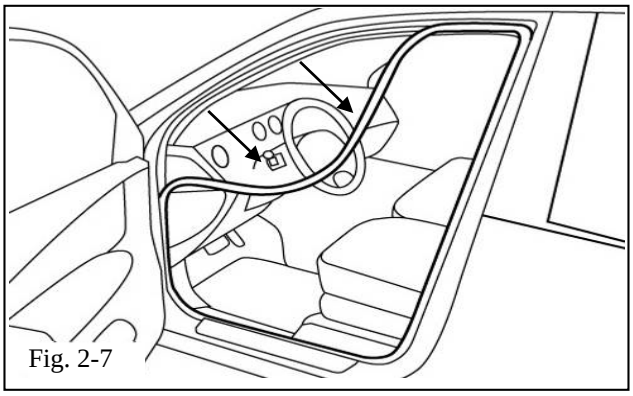


Fig. 2-6

(f) Use a panel removal tool to pry downward on the visor mount to disengage the two (2) clips (Fig. 2-6).


Fig. 2-7

(g) Pull weather-stripping down past top of A-pillar. (Fig. 2-7)

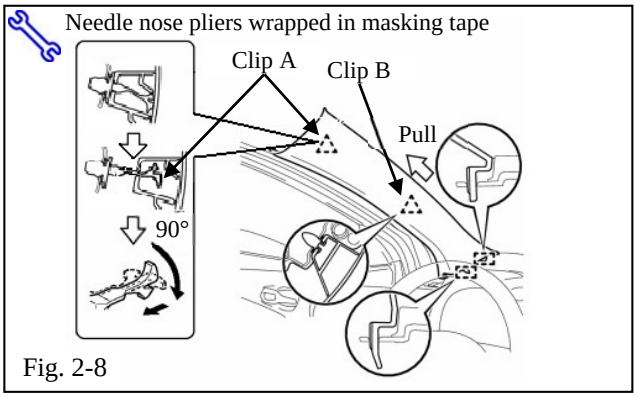


Fig. 2-8

(h) Detach the A-pillar garnish from the body.

(1) Starting from the top, pull the A pillar garnish outward so that clip B detaches, the base of clip A detaches and the tip of clip A locks in the pillar garnish's hole (Fig. 2-8).

(2) Put masking tape around the jaws of the needle-nose pliers to prevent clip damage.

(3) Use needle-nose pliers to rotate the center portion of clip A 90°, then pull the pillar garnish to release the tip of clip A from the pillar garnish (Fig. 2-8).

(4) DO NOT remove clip A from the A-pillar body. If clip A is damaged (i.e. scarred) or removed from the body, replace it with a new clip. Confirm the latest clip part number on the electronic parts catalog.

(5) Pull the pillar garnish in the direction indicated by the arrow in the illustration to detach the claws (Fig. 2-8).

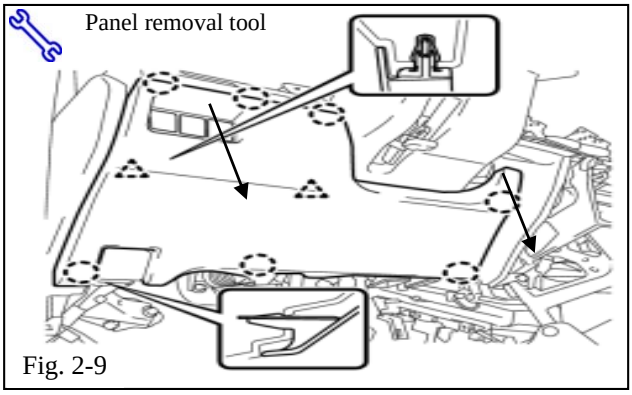


Fig. 2-9

(i) Use a panel removal tool to remove the lower dash panel by pulling outwards (Fig. 2-9).

(j) Remove any connectors connected to the lower IP.

3. Install the T-taps.

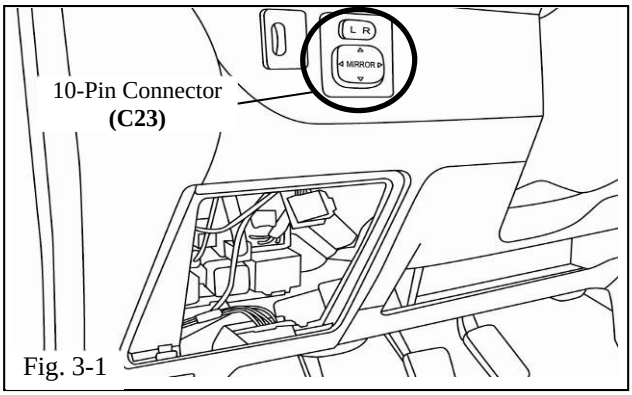


Fig. 3-1

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

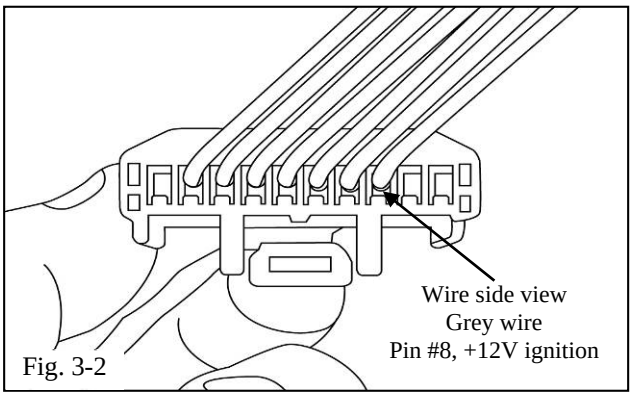


Fig. 3-2

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

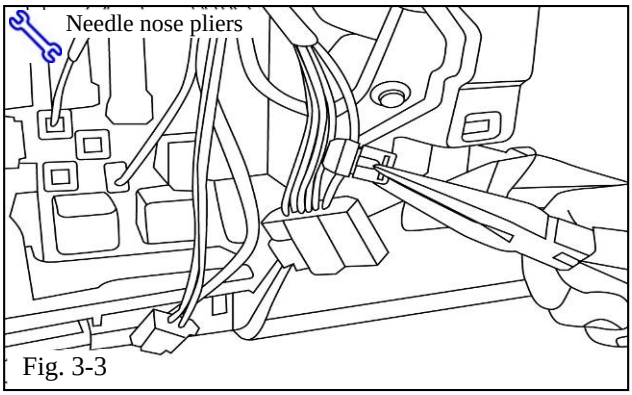


Fig. 3-3

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

⚠ **NOTE:** Ensure both halves of the T-tap connector are snapped together.

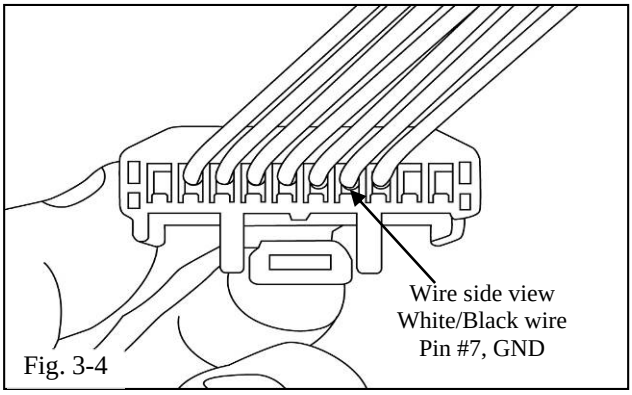


Fig. 3-4

(d) Locate the WHITE/BLACK wire in pin #7 on the 10 pin connector (Fig. 3-4).

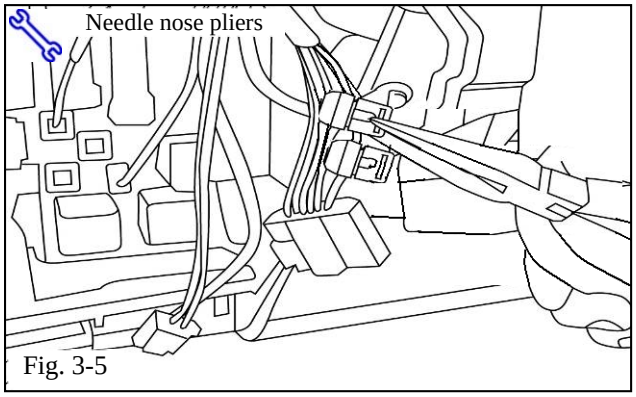


Fig. 3-5

(e) Use needle-nose pliers to attach a T-tap connector about 1.5 inches from the connector to the WHITE/BLACK wire (pin #7) on the 10 pin connector (Fig. 3-5).

NOTE: Ensure both halves of the T-tap connector are snapped together.

4. Install the Auto-Dimming Mirror.

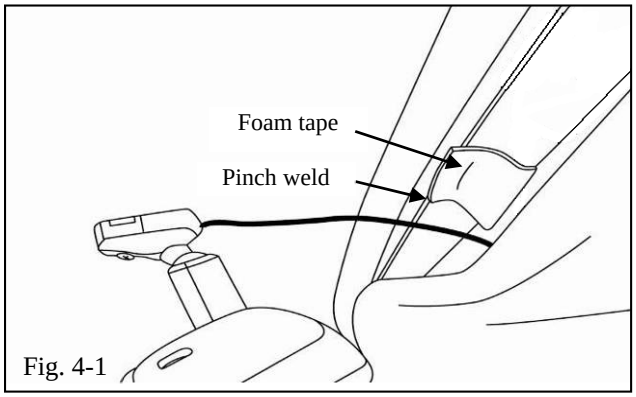


Fig. 4-1

(a) Apply one (1) piece of foam tape to the pinch weld between the windshield and the headliner above the center of the mirror (Fig. 4-1).

NOTE: Do not use excessive force when pulling the headliner as this may cause the headliner to crease.

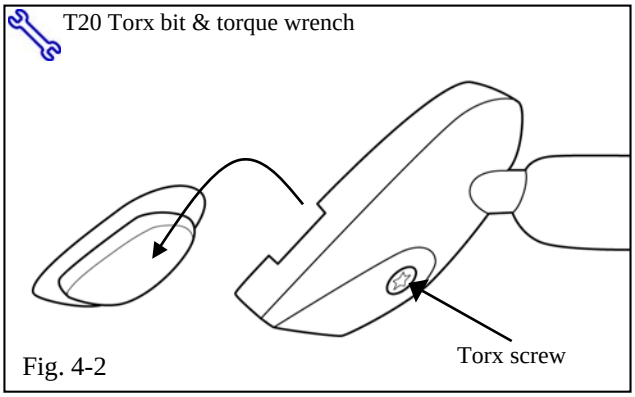


Fig. 4-2

(b) Slide the EC mirror onto the mounting button on the windshield (Fig. 4-2).

(c) Use a torque wrench to tighten the screw in the mirror mounting bracket to 1.75 N-m (15.5 lbf-in).

Torque: 1.75 N-m (15.5 lbf-in)

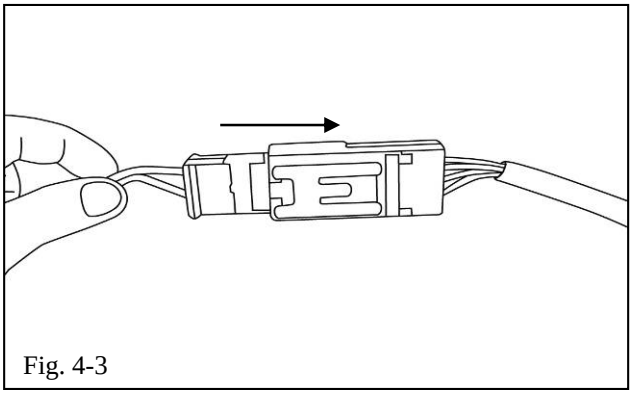


Fig. 4-3

(d) Plug the auto-dimming wire harness 2-pin connector into the 2-pin mirror harness (Fig. 4-3).

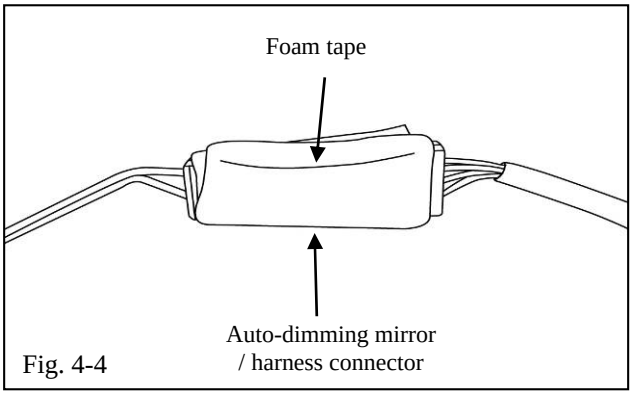


Fig. 4-4

(e) Wrap one (1) piece of foam tape around the auto-dimming mirror connector and the auto-dimming harness connector (Fig. 4-4).

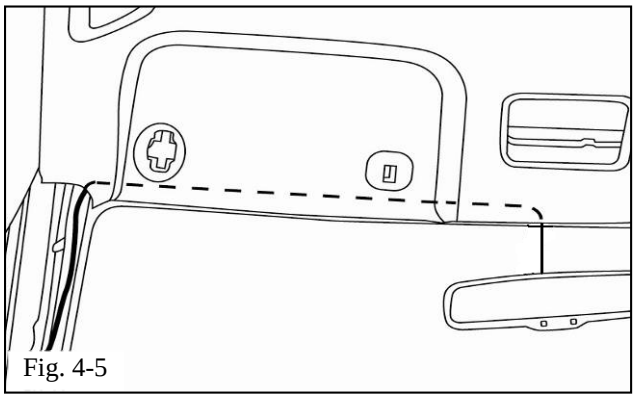


Fig. 4-5

(f) Route the wire along the bottom curve of the headliner toward the A-pillar (Fig. 4-5).

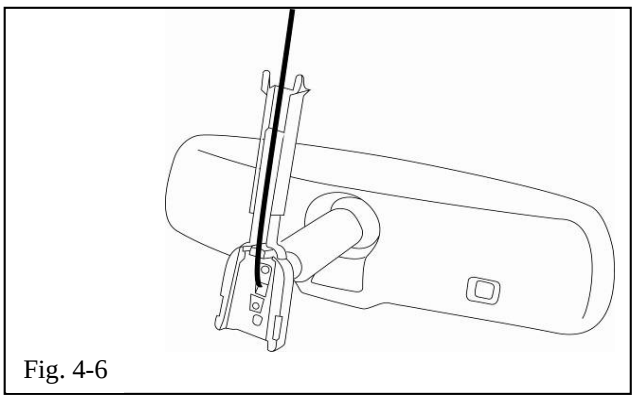


Fig. 4-6

(g) Install the SHORT wire harness cover over the wire harness (Fig. 4-6).

(1) Seat the bottom cover to the mirror.

(2) Extend the top of the cover fully into headliner.

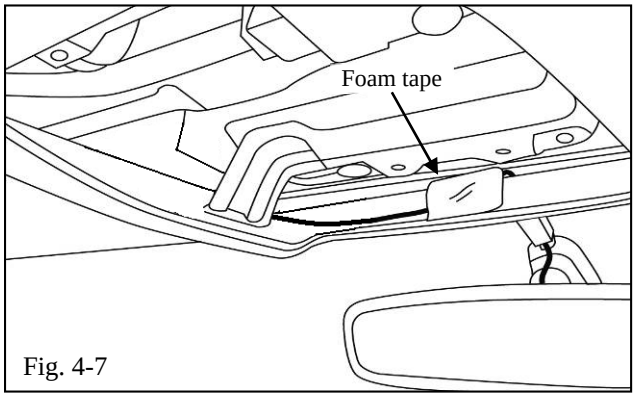


Fig. 4-7

(h) Secure the harness to the front center of the headliner with one (1) piece of foam tape (Fig. 4-7).

NOTE: Make sure the wire is secured within an inch of the front headliner lip.

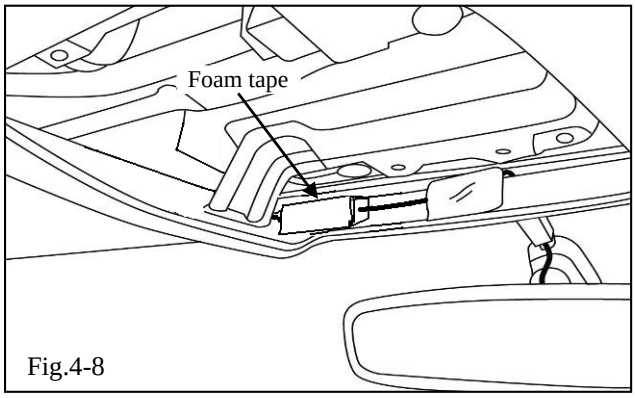


Fig.4-8

(i) Secure the connector to an open area to the left and toward the front of the center of the headliner with one (1) piece of foam tape (Fig. 4-8).

(1) Make sure the connector is secured within an inch of the front headliner lip.

(2) Ensure the auto-dimming harness connector does not cause interference with the headliner and roof of the vehicle.

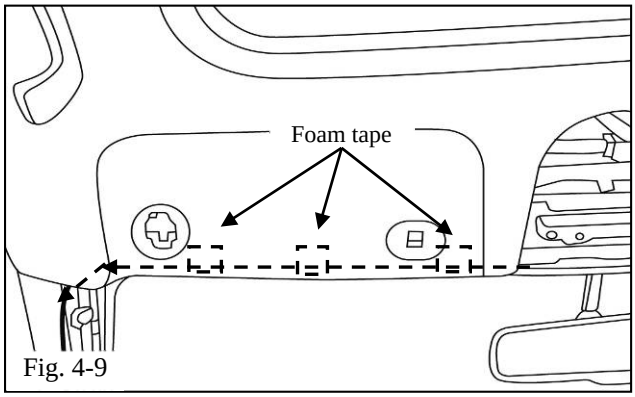


Fig. 4-9

(j) Secure the harness in the driver side visor area to the headliner with three (3) pieces of foam tape in the locations shown (Fig. 4-9).

NOTE: Make sure the wire harness does not block any of the visor mounting holes.

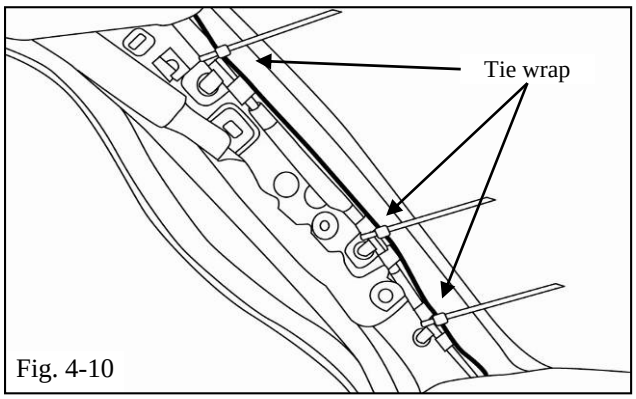


Fig. 4-10

(k) Route the auto-dimming mirror harness down the vehicle A-pillar above the OE harness. Secure the wire harness to the OE harness in front and above each wire clip with three (3) tie wraps (Fig. 4-10).

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

STOP (2) Do not wire tie to the sunroof drain tube (if equipped).

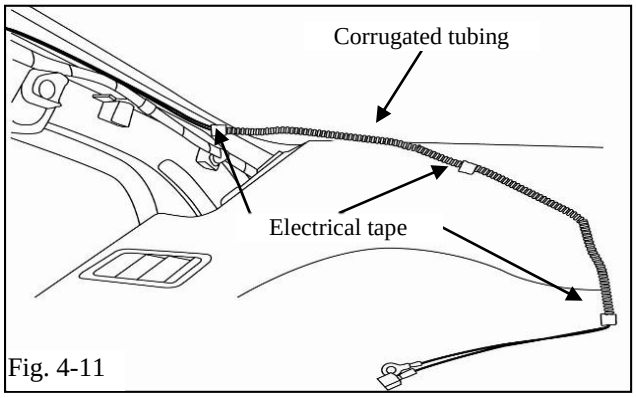


Fig. 4-11

(l) Apply corrugated tube to the remaining portion of the wire about 3 inches from the last wire tie (Fig. 4-11). Use electrical tape to secure the tube to the wire at the top, in the middle and at the bottom of the tube.

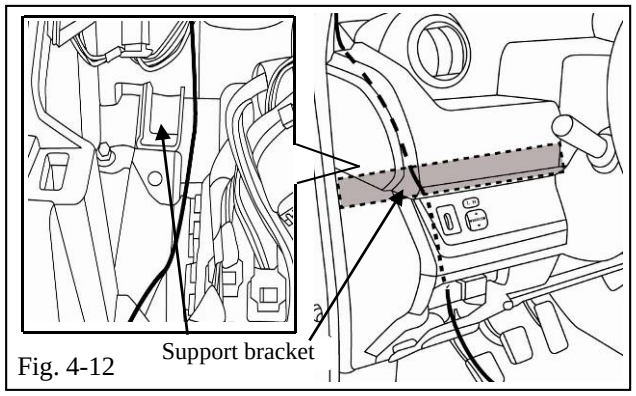


Fig. 4-12

(m) Carefully route the harness through the center dash panel, in front of the support bar and to the front of the junction block (Fig. 4-12).

⚠ **NOTE:** Use care when routing through the center dash, as there are many sharp edges.

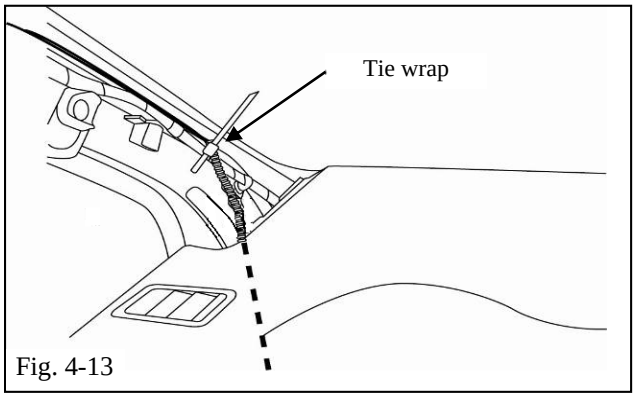


Fig. 4-13

(n) Secure the corrugated tube to the OE harness clip at the bottom of the A pillar with one (1) tie wrap (Fig. 4-13).

(o) Use an approved cleaner to clean the support bar surface to the right of the bracket.

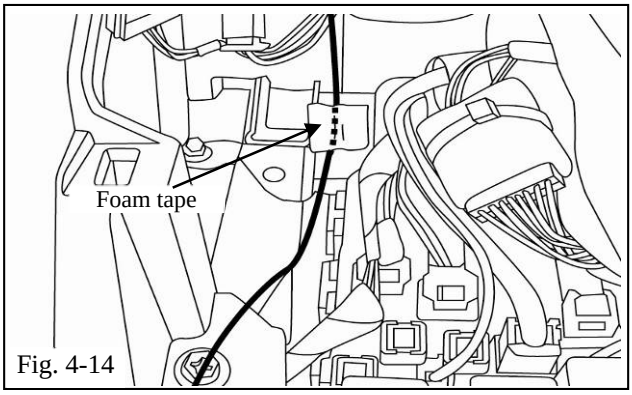
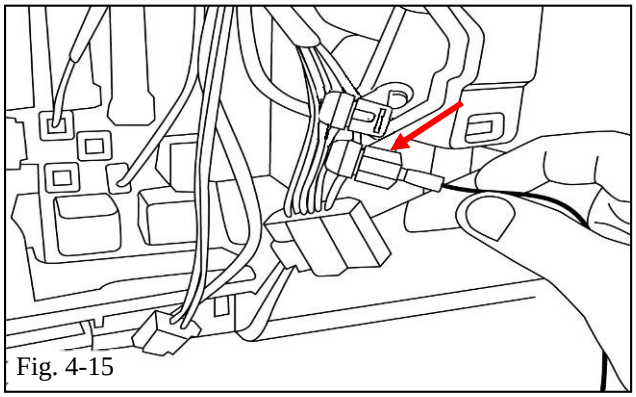


Fig. 4-14

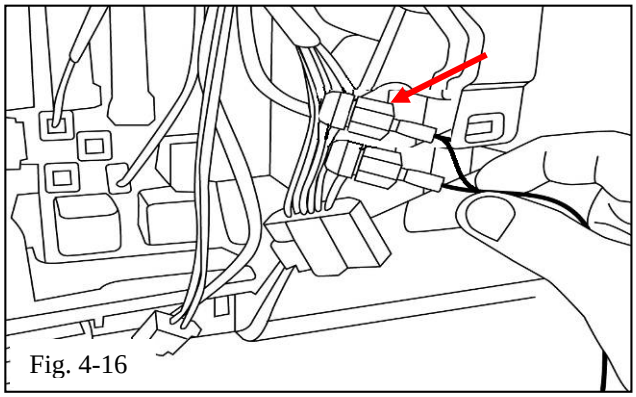
(p) Secure the auto-dimming mirror harness corrugated tube to the support bar with one (1) piece of foam tape (Fig. 4-14).

⚠ **NOTE:** Make sure the wire harness between the A pillar and support bar is not loose and will not rattle.


Fig. 4-15

(q) Plug the BLACK/RED wire spade end of the auto-dimming mirror harness into the T-tap connector on the GREY wire (Fig. 4-15).

⚠ **NOTE:** Ensure that the spade end is properly seated in the T-tap.


Fig. 4-16

(r) Plug the BLACK wire spade end of the auto-dimming mirror harness into the T-tap connector on the WHITE/BLACK wire (Fig. 4-16).

⚠ **NOTE:** Ensure that the spade end is properly seated in the T-tap.

(s) Reconnect the Outer Mirror Switch connector.

(t) Bundle any excess wire and secure it to the OE harness on the junction block with (2) tie wraps (Fig. 4-17).

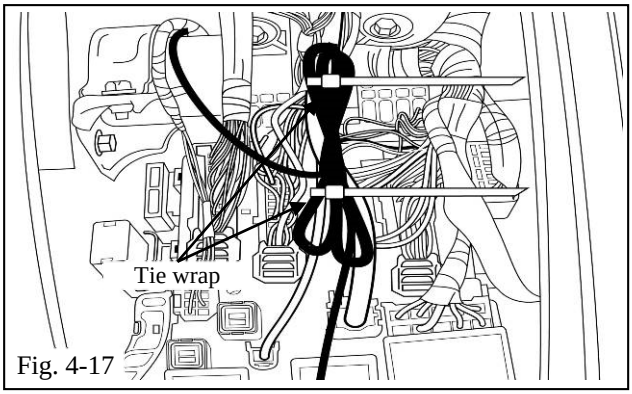


Fig. 4-17

5. Test the Mirror.

(a) If it is not installed, install the short pin located in the engine compartment fuse box.

(b) Temporarily reconnect the vehicle's negative battery cable.

(c) Turn the ignition switch to ON.

(d) With the vehicle in a fairly well-lit area, perform the following test:

(e) 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/Off" button for 3 seconds or until the LED is illuminated.

(2) Cover the forward-looking light sensor located on the back of the mirror with a dark cloth or towel (Fig. 5-1).

(3) In a few seconds, the mirror will begin to darken (time may vary depending on ambient light levels).

(4) Remove the cover from the forward-looking light sensor and the mirror will begin to clear.

(f) Shift light feature:

(1) With the ignition ON, cover the forward-looking light sensor on the back of the mirror. Low-level ambient lighting should be visible from the bottom of the mirror (Fig. 5-2).

(2) Turn the ignition OFF.

(g) Disconnect the negative battery terminal.

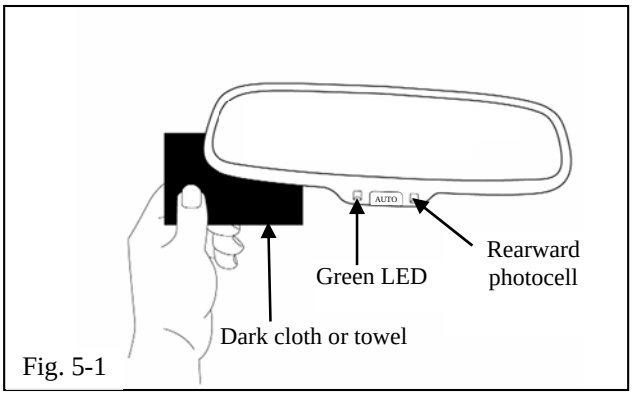


Fig. 5-1

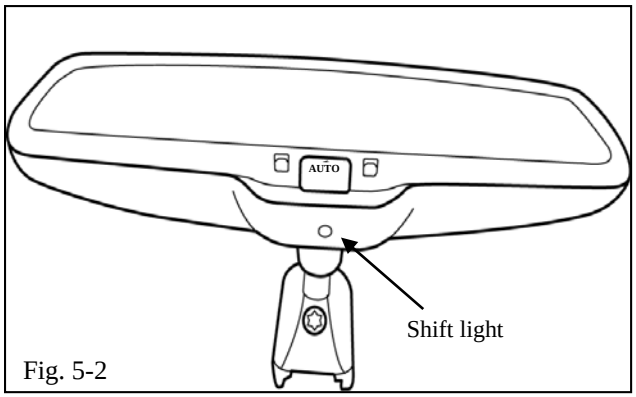


Fig. 5-2

Needle nose pliers wrapped in masking tape

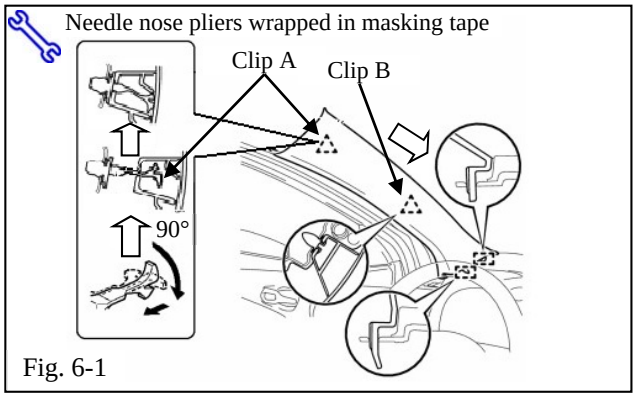


Fig. 6-1

6. Complete the Installation.

(a) Trim the excess off of all of the tie wraps.

(b) Reinstall the driver side sun visor assembly, visor clip and hinge cover.

(c) Reconnect the overhead console connector and install the overhead console.

(d) Reinstall the driver side lower instrument panel.

NOTE: Be sure to reconnect any disconnected connectors.

(e) Reinstall the A pillar garnish (Fig. 6-1).

(1) Inspect the upper A pillar clip, clip A. If it is damaged, replace it. Confirm the latest clip part number on the electronic parts catalog.

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

(3) Insert the tip of clip A into the pillar garnish's hole and use needle-nose pliers wrapped in masking tape to rotate the tip 90°.

NOTE: Make sure the clip is in the proper orientation.

(4) Ensure that clip A 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 clip A and clip B.

(f) Reinstall the weather seal.

(g) Ensure the components are securely fastened and do not interfere with the existing OE or auto-dimming harnesses.

(h) Place the operation instruction card in the vehicle glove box.

(i) Remove fingerprints, smudges, dirt, etc. from the mirror and windshield with a VDC approved cleaner.

(j) Verify each reinstalled component for proper fit and function.

7. Reconnect the Negative Battery Cable.

(a) Reconnect the vehicle's negative battery cable (Fig. 7-1).

(1) Tighten the nut to 5.4 N-m (48 lbf-in).

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

(2) Do not touch the positive terminal with any tool when replacing the cable.

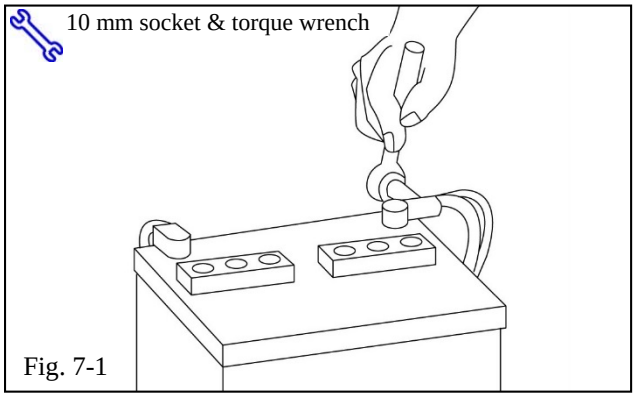


Fig. 7-1

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.	
Turn ignition (ACC power) to ON	Verify green LED is on. If it is not ON press On / Off 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.
Shift light feature:	
☐ Turn ignition ON, cover forward-looking light sensor and observe shift-light	Light is visible from bottom of mirror.
☐ Operation instruction card	Placed in the vehicle glove box.
Vehicle Function Checks	
☐ Check dome light	Verify dome light functions properly
☐ Check sunroof if equipped.	Verify sunroof functions properly
☐ Check power mirrors	Verify power mirrors function properly
☐ Check TPMS if equipped	Verify TPMS functions properly
☐ Check security system if equipped	Verify security system works properly
☐ Check traction control if equipped	Verify the traction control functions properly

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