

Preparation

Part Number: 00016-42116

Code: CM2



Kit Contents

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

Special Chemicals	Notes
Cleaner	Household Windex

Hardware Bag Contents

Item #	Quantity Req'd.	Description
1	1	T-tap Connectors, Red 3M™
2	2	Wire Cover; Short and Long
3	1	EC Wire Harness
4	6	Foam Tape
5	5	Wire Ties
6	1	Operation Instruction Card
7	1	Installation Instructions

General Applicability

All Models
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Recommended Sequence of Application

Item #	Accessory
1	TVIP
2	Satellite Receiver
3	Audio
4	EC Mirror

\*Mandatory

Additional Items Required For Installation

Item #	Quantity Req'd.	Description
1		

Conflicts

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Recommended Tools

Personal & Vehicle Protection	Notes
Blankets, Towels	
Special Tools	Notes
None	
Installation Tools	Notes
Screwdriver	Phillips #2
Ratchet	
Socket	10 mm
Torx Head Driver	T20
Pliers	Needle Nose
Nylon Panel Removal Tool	e.g. Panel Pry Tool #1 Toyota SST# 00002-06001-01
Dark Towel or Cloth	For Testing
Torque Wrench	41 kgf-cm (36 lbf-in)
Side Cutters	

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.

SPECIAL NOTE: Installation Sequences

After TMS and Safety mandated preparatory steps have been taken, the installation sequence is the suggested method for completing the accessory installation. In some instances the suggested sequence is written for one associate to install and in others the sequence is given as part of a team accessory installation. Unless otherwise stated in the document, the associates may perform the installation steps in any order to make the installation as efficient as possible while maintaining consistent quality.

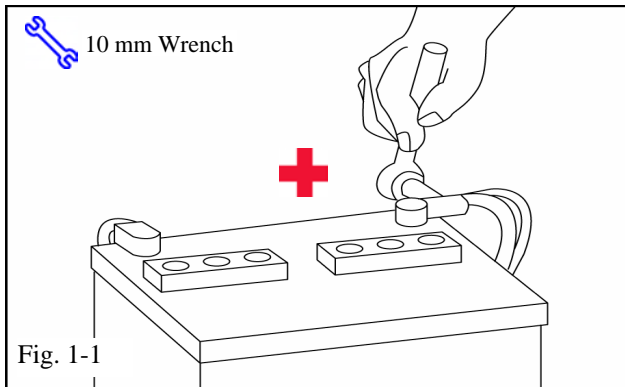
**Procedure**

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.

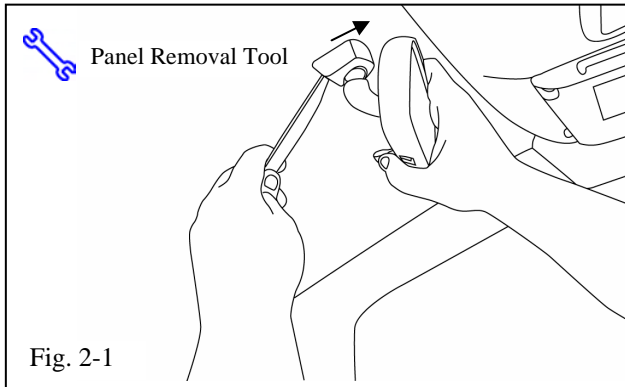
This document covers such items as:-

- 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.).



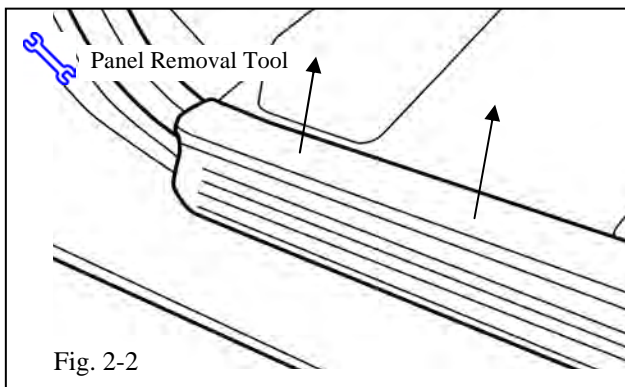
**1. Remove Battery Cable.**

-  (a) Protect fender before starting.
-  (b) Do not touch the positive terminal with any tool when removing cable.
- (c) Remove the negative battery cable. (Fig. 1-1)

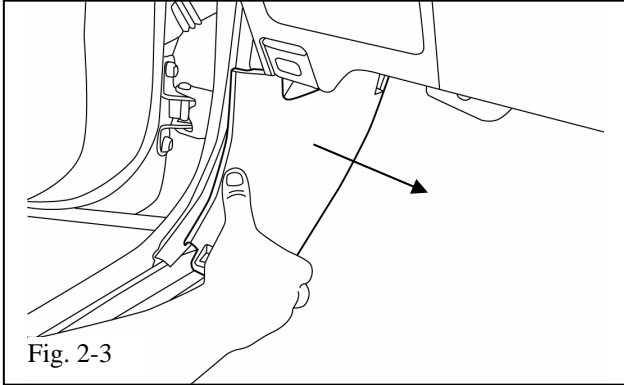


**2. Vehicle Disassembly.**

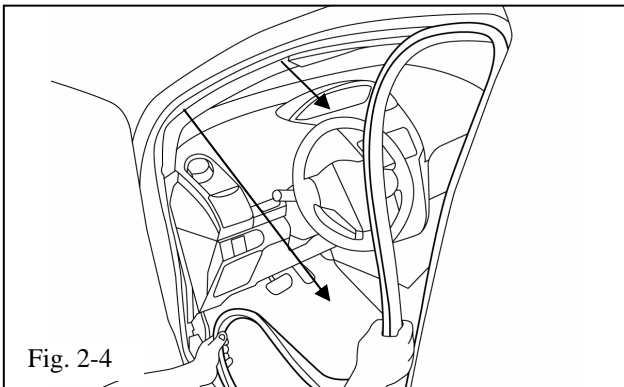
- (a) Remove OE mirror and discard.
  - (1) With panel removal tool, release locking tab on bottom of mirror and wiggle mirror upwards to release from windshield button. (Fig. 2-1)



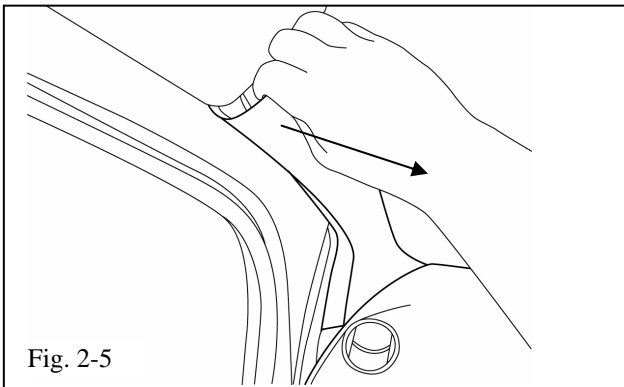
- (b) With a panel removal tool, pry upwards on driver-side scuff plate and remove. (Fig. 2-2)



(c) Grasp driver-side cowl cover and pull out to remove. (Fig. 2-3)

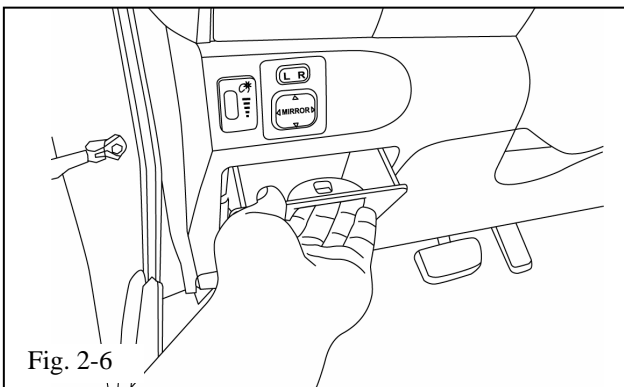


(d) Pull driver-side weather-seal down past top of A-pillar and out of the way of access to vehicle occupant compartment. (Fig. 2-4)

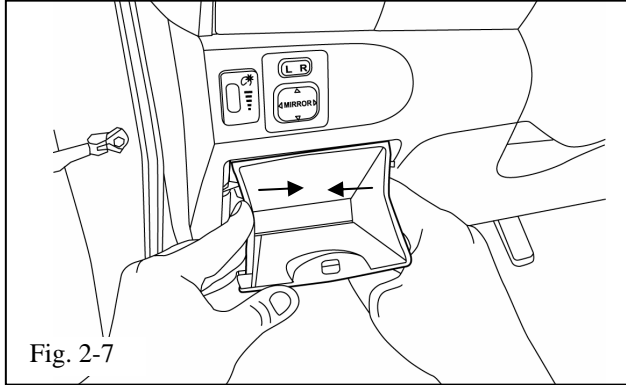


(e) Grasp top of driver-side A-pillar and pull towards inside of vehicle to release fasteners. (Fig. 2-5)

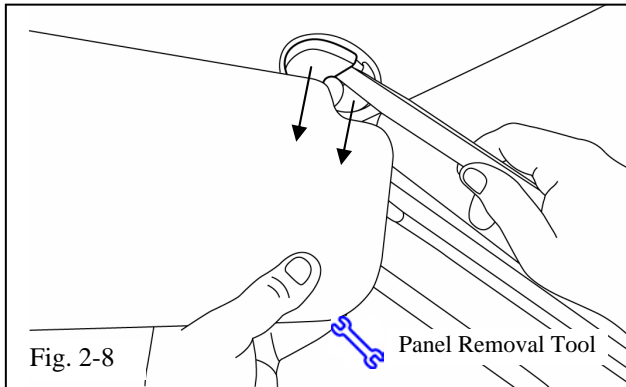
(f) Pull A-pillar towards rear of vehicle to remove base.



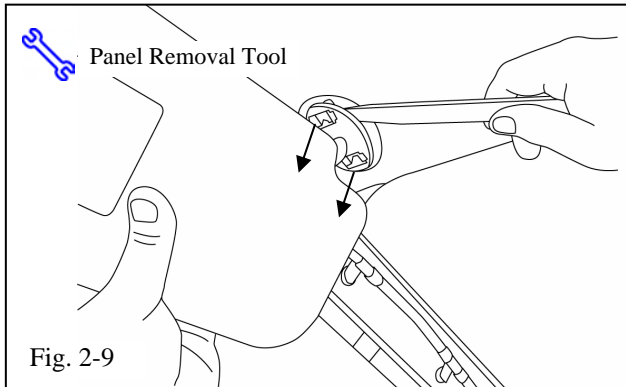
(g) Open dash storage compartment. (Fig. 2-6)



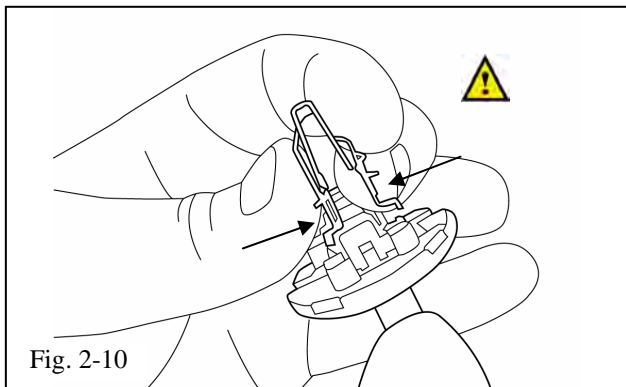
- (h) Push in on sides of dash storage compartment and pull outwards to release top guides. (Fig. 2-7)
- (i) Pull base of storage compartment outwards to disengage clips at bottom.




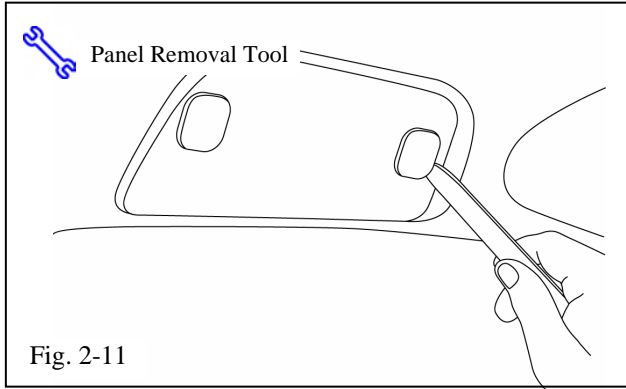
- (j) Using panel removal tool, pry visor mount cover off from visor mount. (Fig. 2-8)



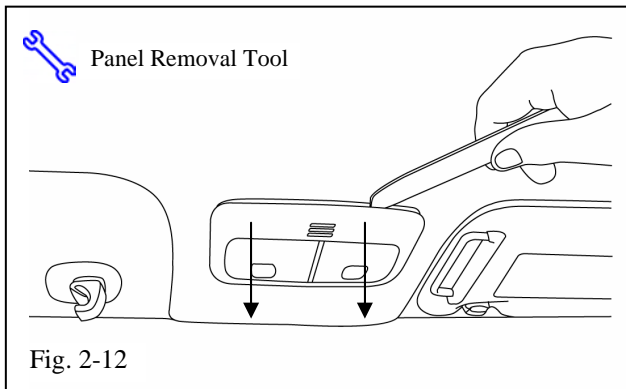
- (k) Using panel removal tool, pry downward on visor mount to disengage 2 clips. (Fig. 2-9)
- (l) Disconnect vanity light connector if equipped.



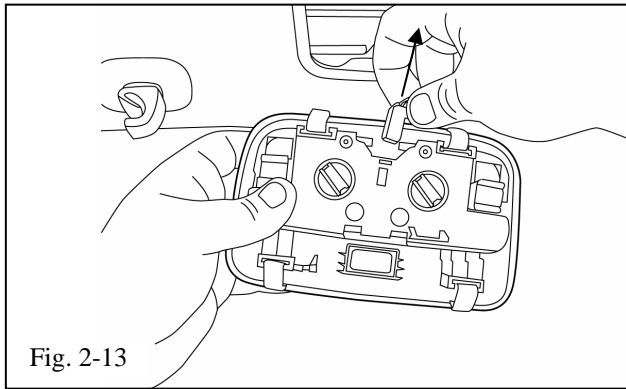
-  (l) If metal fastener clips remain in vehicle headliner, remove and reinsert into visor mount by squeezing sides of clips together and inserting into visor mount. (Fig. 2-10)



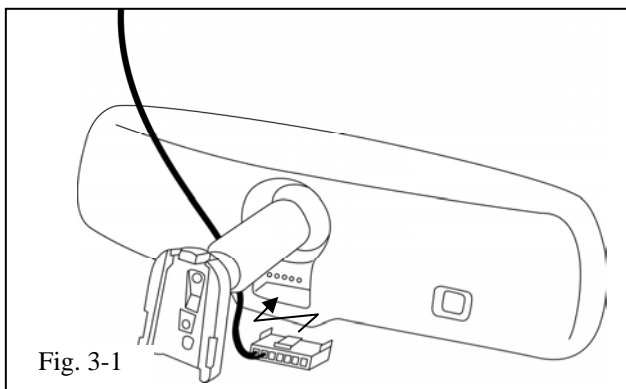
(m) Using panel removal tool, remove plastic headliner fasteners above driver-side door. (Fig. 2-11)



(n) Using panel removal tool, pry downwards on overhead dome-light assembly to remove. (Fig. 2-12)

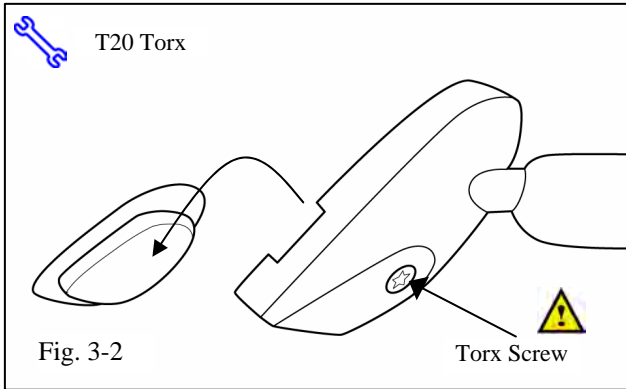


(o) Disconnect dome-light harness. (Fig. 2-13)



**3. Wire harness and mirror installation.**

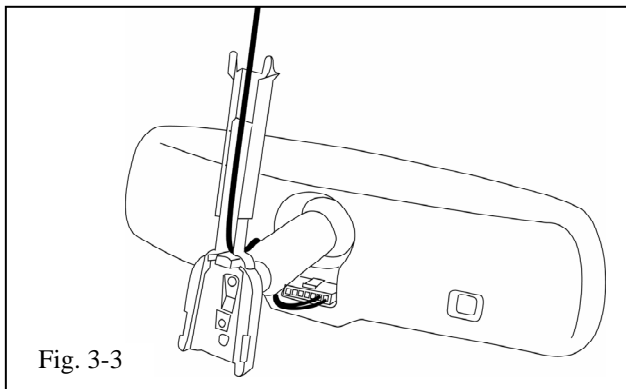
(a) Plug wire harness 10-pin connector into the back of mirror. (Fig. 3-1)



(b) Slide the EC mirror onto the mounting button on windshield. (Fig. 3-2)



(c) Tighten the screw in the mirror mounting bracket with torque wrench to 1.75 N-m (15.5 lbf-in).



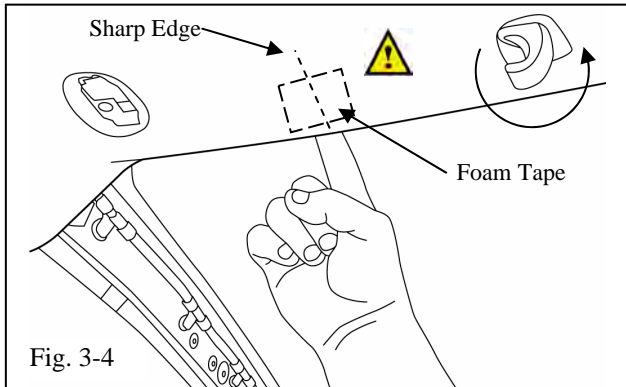
(d) Slide the wire harness cover over the wire harness and extend to completely cover wire harness. (Fig. 3-3)

**Note: Short wire cover should be used on Hatchback vehicles and long wire cover should be used on Sedans.**

(1) Be sure the bottom of cover is securely mounted to base.

(2) Be sure top of cover is fully extended into headliner.

(3) Be sure the mirror has full range of movement.

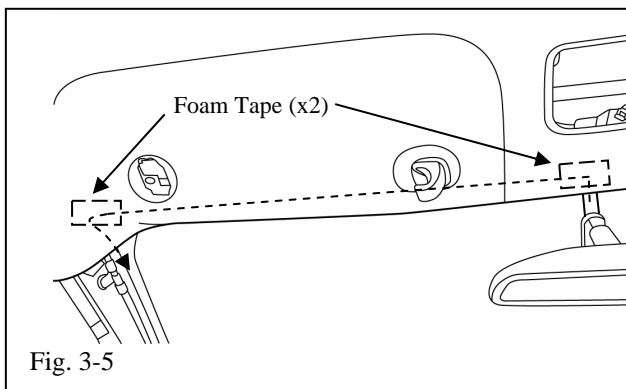


(e) Twist visor clip counter-clockwise to disengage from roof sheetmetal. (Fig. 3-4)

(f) Gently pull headliner down and locate sharp edge approximately mid-way between visor clip and visor mount opening. (Fig. 3-4)

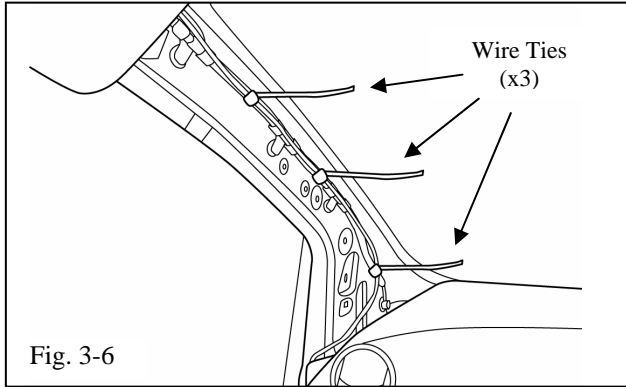


(1) Place 1 piece of foam tape over sharp edge to protect EC mirror harness.

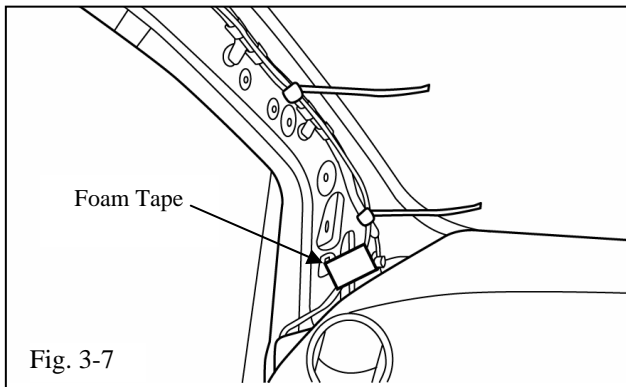


(g) Route EC mirror harness between headliner and roof, to top of A-pillar. (Fig. 3-5)

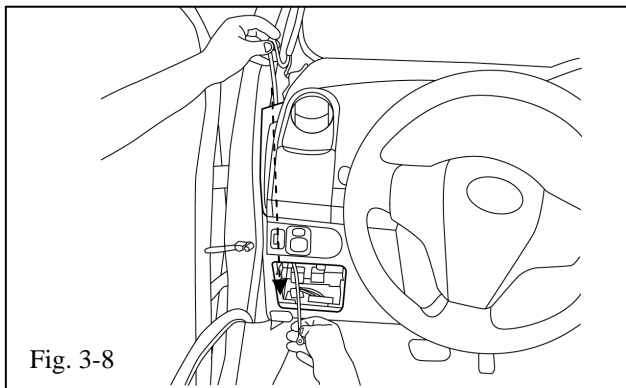
(1) Secure EC mirror harness to vehicle headliner with 2 pieces of foam tape.



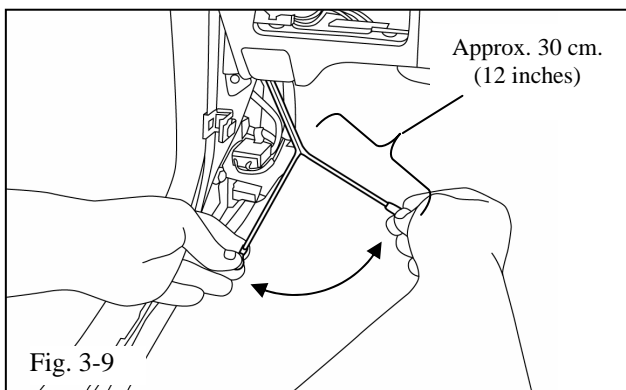
- (h) Route EC mirror harness down vehicle A-pillar, along OE harness. (Fig. 3-6)
- (1) Secure harness with 3 wire ties.



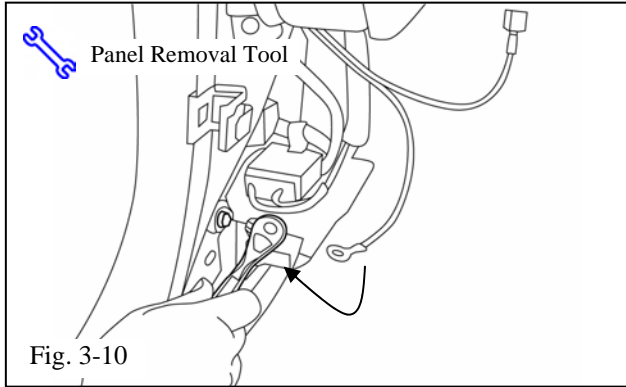
- (i) Secure EC mirror harness at base of A-pillar with 1 piece of foam tape. (Fig. 3-7)



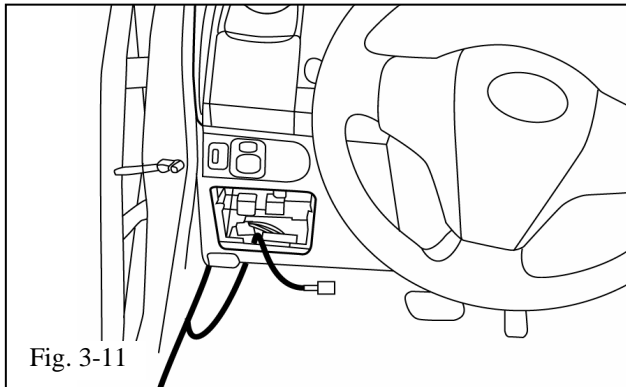
- (j) Route EC mirror harness through vehicle dash and into driver-side foot-well area. (Fig. 3-8)



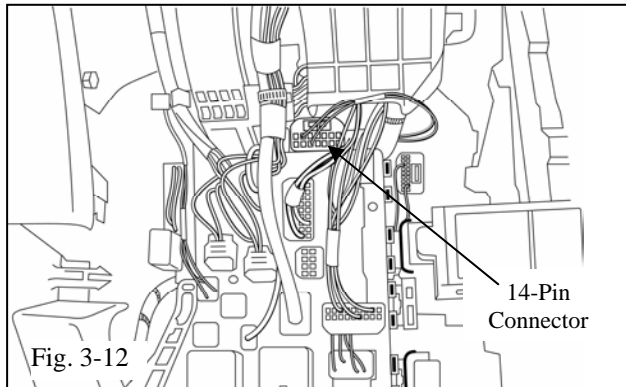
- (k) Separate the two wires of EC mirror harness by pulling apart approximately 30 cm (12 inches). (Fig. 3-9)



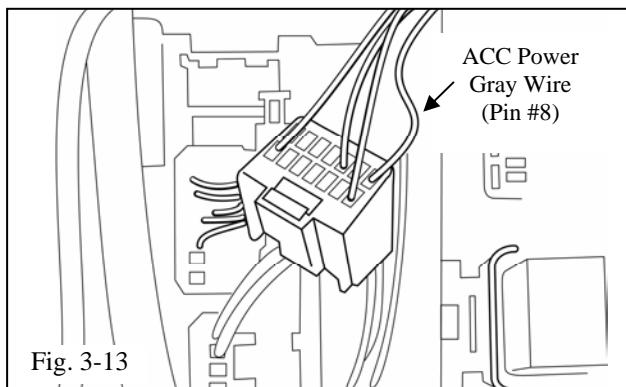
- (l) Locate 10mm ground bolt in driver-side cowl area and remove. (Fig. 3-10)
- (m) Attach EC mirror harness ring terminal to ground bolt and reinstall.



- (n) Route spade terminal wire of EC mirror harness upwards into dash storage compartment area. (Fig. 3-11)

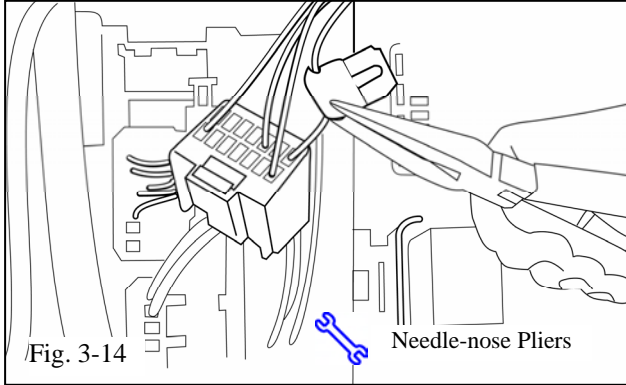


- (o) Looking inside storage compartment area, locate 14-pin connector in junction block. (Fig. 3-12)
- (1) Remove 14-pin connector.

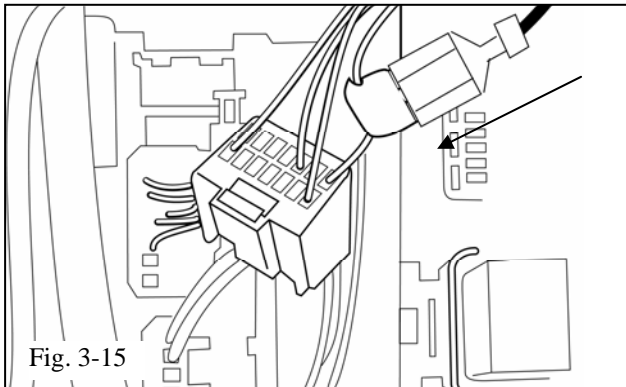


- (p) Identify ACC connection wire in the 14-pin connector. (Fig. 3-13)
- (1) Locate the GRAY wire in pin #8.

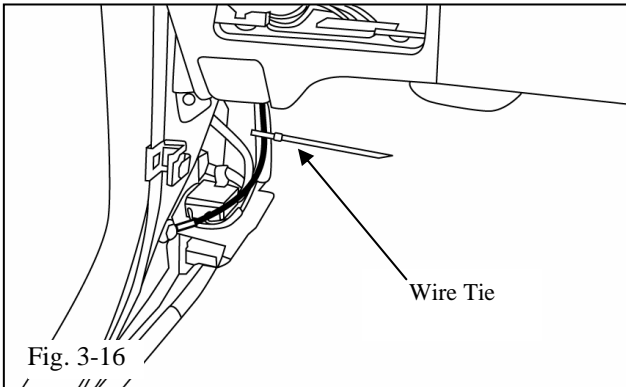




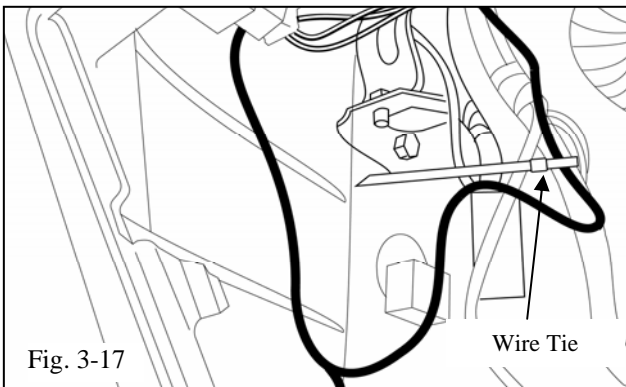
- (q) Attach T-tap connector to GRAY wire (pin #8) with needle-nose pliers. (Fig. 3-14)
- (r) Ensure both halves of T-tap connector are snapped together.



- (s) Plug the spade end of the EC mirror harness into T-tap connector. (Fig. 3-15)
- (t) Plug 14-pin connector back into power mirror control.



- (u) Secure EC mirror harness ground wire to OE wire bundle in cowl area with 1 tie wrap. (Fig. 3-16)



- (v) Secure EC mirror harness wire to OE harness inside dash storage compartment area. (Fig. 3-17)

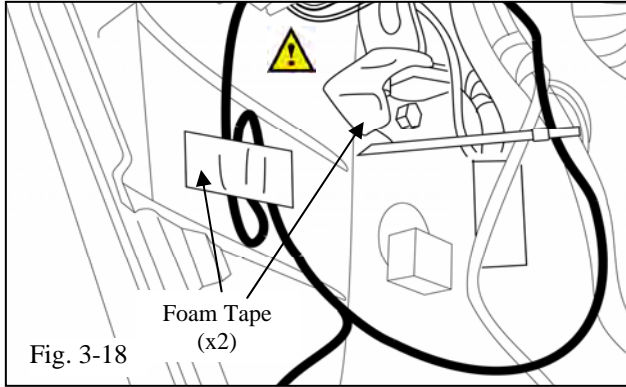



Fig. 3-18

- (w) Bundle any excess EC mirror harness wires and secure to inner dash area in dash storage compartment area with 1 piece of foam tape. (Fig. 3-18)

-  (x) Cover sharp edge of dash support bracket mount with 1 piece of foam tape. (Fig. 3-18)

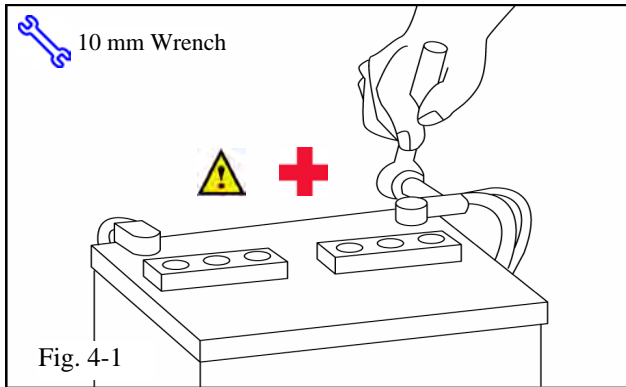



Fig. 4-1

**4. Reconnect Negative Battery Cable.**

-  (a) Reconnect the vehicle's negative battery cable. (Fig. 4-1)
- (1) Tighten the nut to 4.1 N-m (36 lbf-in).
- (2) Do not touch the positive terminal with any tool when replacing the cable.

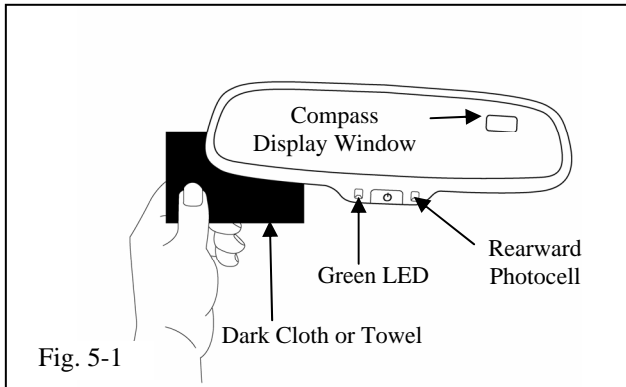


Fig. 5-1

**5. Testing.**

- (a) Turn ignition switch to ON.
- (b) With the vehicle in a fairly well lit area, perform the following test:
- (c) 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 with ambient light levels).

- (4) Remove the cover from the forward-looking light sensor and the mirror will begin to clear.
- (d) Compass Feature:
  - (1) Push and release the "On/Off" button in less than 3 seconds to toggle the directional heading display On and Off.
  - (2) Compass is enabled when a direction or a "C" appears in the mirror display window.
  - (3) Turn ignition OFF.

**6. Final Assembly.**

- (a) Place the operation instruction card in the vehicle glove box.
- (b) Remove fingerprints, smudges, dirt, etc. from mirror and windshield with Household Windex.
  - (1) When cleaning with Household Windex, follow the manufacturer's directions. Do not allow cleaner to air dry.
- (c) Verify each reinstalled component for proper fit and function.

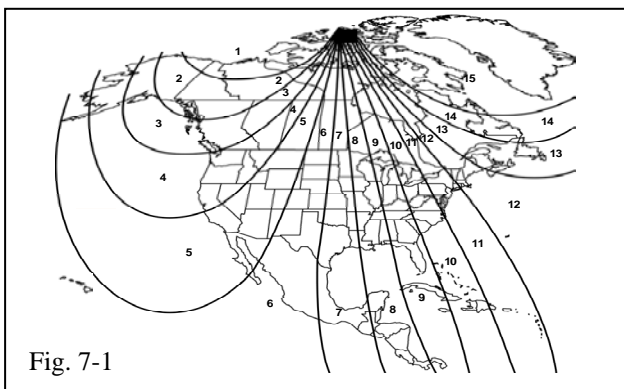


Fig. 7-1

**7. Compass Zone Setting.**

- (a) With display turned ON, push the mirror button for 3 seconds or until a number is displayed in the display window.
- (b) Refer to the Zone Map and toggle button until correct zone is displayed. (Fig. 7-1)
- (c) Release button.


- (d) The display will return to normal compass mode (showing either a "C" or a directional heading) within 10 seconds of no switch activity.

**8. Calibrate Compass.**

- (a) If a "C" is displayed in window, drive the vehicle in one circle at less than 5 mph.
- (b) Correct compass heading should now be displayed.

**NOTE:** Correct compass zone must be selected prior to compass calibration to ensure accurate calibration. If the vehicle is driven in a new zone, repeat zone selection procedure.

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><b>Vehicle should be in a fairly well lit area.</b></p> <p>Turn ignition (ACC power) to ON.</p> <p><b>Auto-dimming feature:</b></p> <p><input type="checkbox"/> Cover the forward-looking light sensor (located below the wire harness connection on the back of the mirror).</p> <p><b>Mirror clears:</b></p> <p><input type="checkbox"/> Remove cover from photocell.</p> <p><b>Compass Feature:</b></p> <p><input type="checkbox"/> Push the "ON/Off" Button.</p> <p><input type="checkbox"/> Operation Instruction Card</p>	<p>Verify green LED is on. If it is not ON press On / Off button - confirm LED is ON.</p> <p>Verify mirror darkens.</p> <p>Mirror returns to clear state.</p> <p>"C" or direction is displayed.</p> <p>Placed in the vehicle glove box.</p>
<p><u>Vehicle Function Checks</u></p> <p><input type="checkbox"/> Check dome light</p> <p> <input type="checkbox"/> Check battery negative cable</p>	<p>Verify dome light functions properly.</p> <p>Nut should be tightened to 4.1 N-m (36 lbf-inch).</p>