



**GENUINE ACCESSORIES
INSTALLATION INSTRUCTIONS**

PART NUMBERS:

0000-8F-N01 Electrochromic Mirror w/ Rear Camera Display
0000-8F-N04 Rear Camera Display Installation Kit

APPLICABLE MODELS:

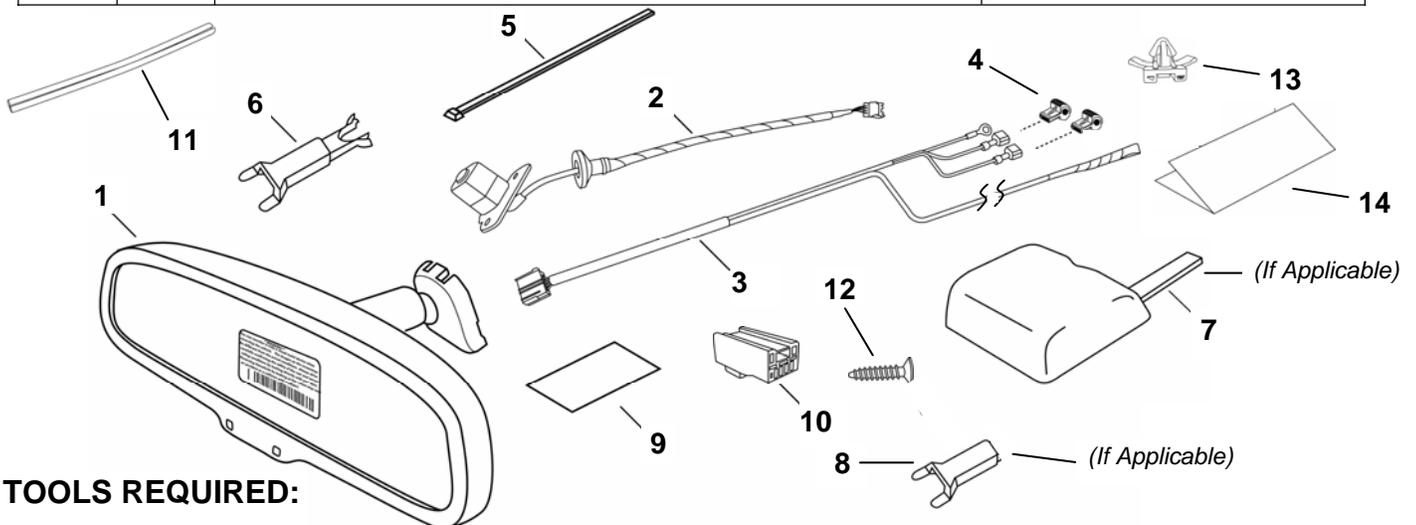
2007 > Mazda CX-9

REQUIRED COMPONENTS:

ITEM	QTY	DESCRIPTION	SERVICE PART NUMBER
1	1	Mirror Assembly with Rear Camera Display	0000-8F-N01

INSTALLATION KIT COMPONENTS:

2	1	Camera	0000-8F-N07
--	1	Wire Harness Kit Assembly	0000-8F-N06
3	1	Harness Assembly – Power, Ground, Rev, Video	--
4	2	Wire Tap	--
5	31	Tie Wrap	--
6	1	Wire Cover	--
7	1	Rain Sensor Cover	--
8	1	Upper Wire Cover	--
9	11	Foam Tape	--
10	1	Harness Connector	--
11	1	Foam Wrap	--
12	2	Screw (8-18 x ½)	--
13	1	Through Clip	--
14	1	User Guide	--



TOOLS REQUIRED:

Clean Rag	Electrical Tape	14mm Socket	Dremel Tool with:	OEM Mirror Removal Tool
Fiberstick	#T20 Torx	Drill with:	13/16" Cutting Tool	(Ref. page 4, step e) and
Pliers	Ratchet	1/8" Drill Bit	Cable Routing Tool	page 29 of instructions)
Wire Cutters	10mm Socket	4mm Screwdriver	Phillip's Screwdriver	

INSTALLATION PRECAUTIONS / NOTES:

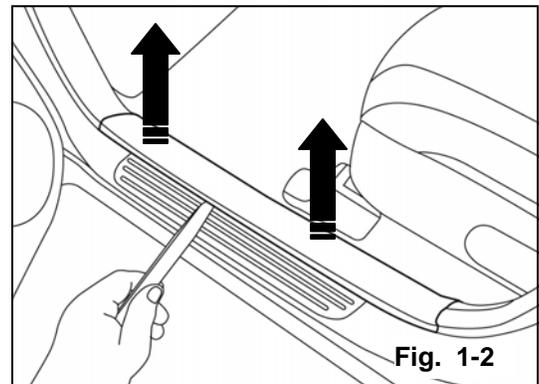
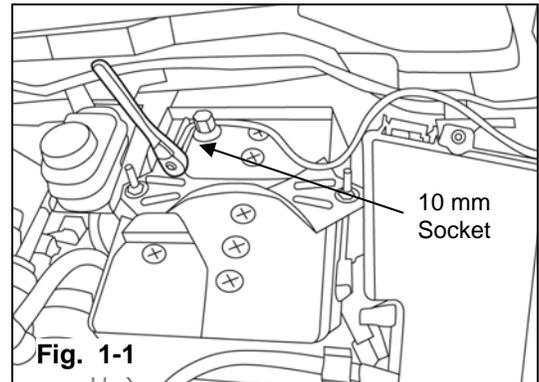
- Do not use excessive force when removing OE mirror from windshield.
- Do not place wire harness against objects with sharp edges that may cause electrical shorting.
- On vehicles equipped with “A” pillar air bag, verify mirror harness path remains clear of air bag. Harness should follow, and be tied to existing OEM wiring with tie wraps.
- Verify that power harness path will not interfere with brake, clutch, emergency brake or air bag operation. Use tie wraps to hold the wiring away from critical locations.

1. Perform the following pre-installation steps:
2. Place kit components on a clean, padded surface and inspect for damage or defects.
3. Record customer’s programmed radio stations (if applicable).

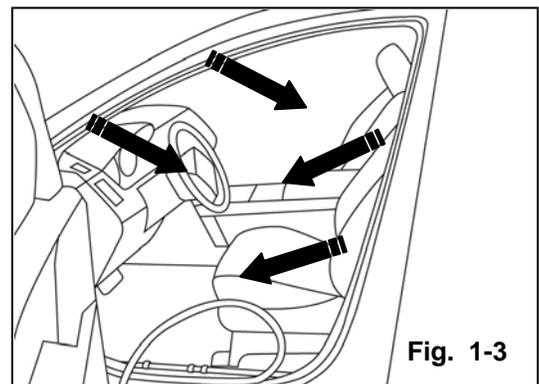
1

Preparation

1. Disconnect negative battery terminal.
 - a) Using 10mm socket, remove negative battery terminal. (Fig. 1-1)
2. Remove driver-side scuff plate.
 - a) Use fiberstick to disengage clips. (Fig. 1-2)

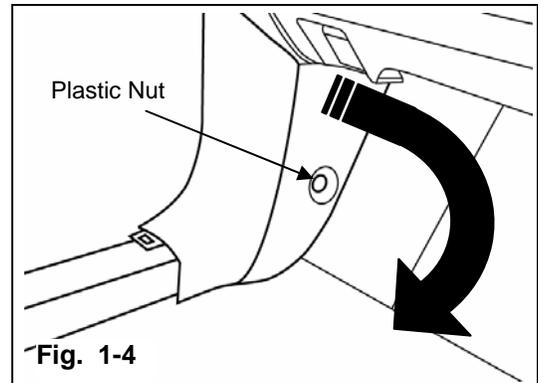


3. Remove driver-side door seal.
 - a) Pull back past top of A-pillar and B-pillar trims. (Fig. 1-3)



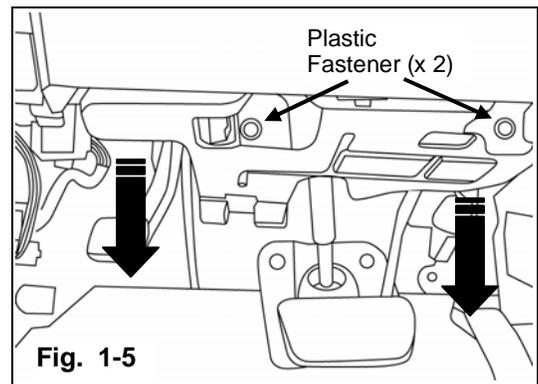
4. Remove driver-side kick plate.

- a) Unscrew plastic nut.
- b) Grasp kick plate at rear and pull out towards passenger-side of vehicle. (Fig. 1-4)



5. Remove lower dash cover from driver-side footwell area.

- a) Remove two (2) plastic fastener's. (Fig. 1-5)
- b) Grasp rear of cover and pull down to release. (Fig. 1-5)



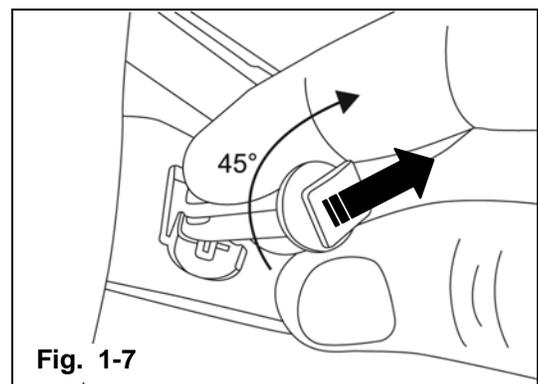
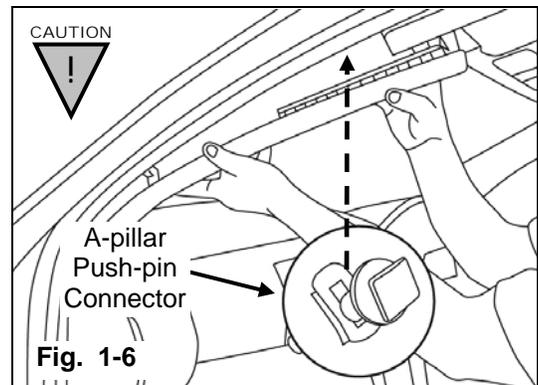
6. Remove A-pillar trim.

CAUTION



Do not use excessive force. A-pillar connector could be damaged.

- a) Pull out the top portion of A-pillar trim toward passenger-side of vehicle until A-pillar push-pin connector is extended approximately 1/2". (Fig. 1-6)
- b) Grasp A-pillar trim with both hands then slide upward, to slide off from A-pillar push-pin connector. (Fig. 1-6)
- c) After A-pillar trim is detached from push-pin, pull firmly to detach lower clips.
- d) Rotate the extended portion of the A-pillar push-pin connector 45 degrees and remove pin from A-pillar. (Fig. 1-7)



- e) Reinstall push-pin in A-pillar trim into proper position to secure. **(Fig. 1-8)**

NOTE

Reinstalling pin into A-pillar trim will ease re-installation of trim.

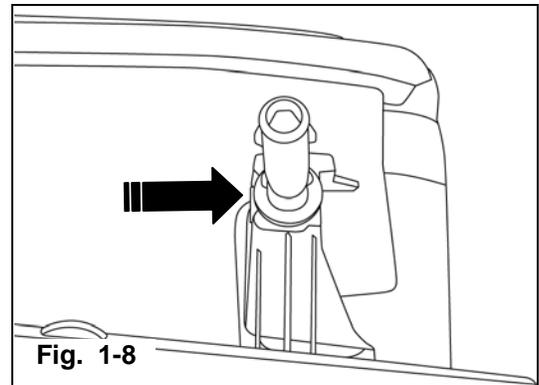


Fig. 1-8

7. Remove OE mirror.

FOR VEHICLES WITH RAIN SENSOR, START AT STEP (7a).

FOR VEHICLES WITHOUT RAIN SENSOR, SKIP TO STEPS (7j) AND (7k).

- a) Insert 4mm screwdriver in slot at the bottom of the OE rain-sensor cover. **(Fig. 1-9)**
- b) Twist the head of the screwdriver to disengage the two halves of the cover. **(Fig. 1-9)**

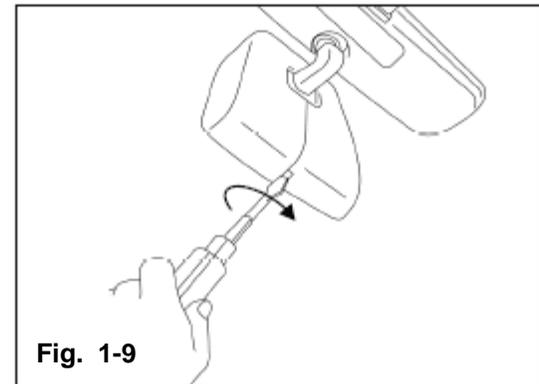


Fig. 1-9

CAUTION

Do not damage rain sensor assembly during removal from windshield. If sensor tabs are broken, windshield replacement will be required.

- c) Using 4mm Screwdriver, slide the two (2) locking tabs downward on the rain-sensor. **(Fig. 1-10)**

CAUTION

Ensure both tabs are fully extended downward.

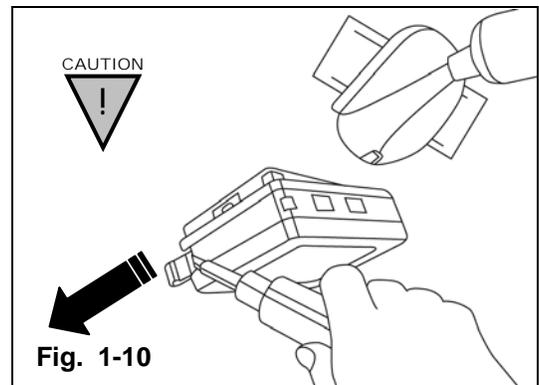


Fig. 1-10

- d) Insert fiberstick at corner of rain-sensor and gently twist and pry downward to remove. Excessive force will damage or break windshield. **(Fig. 1-11)**

NOTE

One half of rain-sensor will remain mounted to windshield.

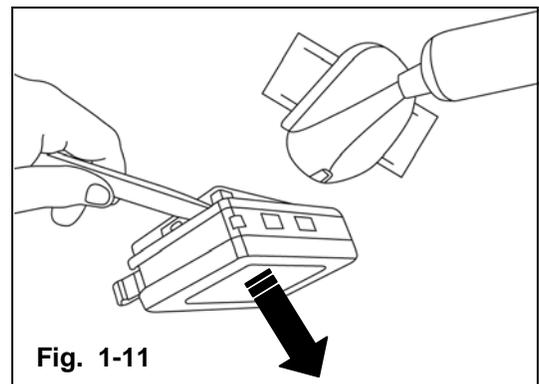


Fig. 1-11

- e) To complete removal of OEM mirror, it is easier to use special tool shown on page 30 of instructions. Figure 1-12 shows mirror removal using special tool.

CAUTION



Do not pry or damage rain-sensor during mirror removal.

CAUTION



Do not damage or use excessive force on inner components of rain-sensor unit. Damaging rain-sensor unit will require replacement of the entire windshield.

- f) Insert OEM mirror removal tool into notch at bottom of mirror mount and slide upward between windshield mounting button and mirror mount. **(Fig. 1-12)**

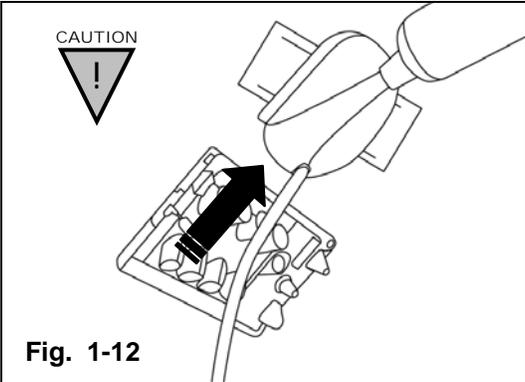


Fig. 1-12

- g) Push on locking tab while performing the next step. **(Fig. 1-13)**
- h) Grasp mirror head and gently wiggle it while pulling upwards to slide mirror off from windshield button.
- i) Carefully reinstall rain-sensor, ensuring both locking tabs are secured, and rain-sensor harness connector is plugged in.

Proceed to 2 - EC Mirror Installation

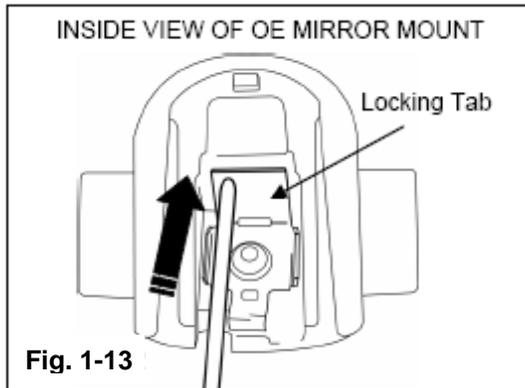


Fig. 1-13

- j) Insert 4mm screwdriver into notch at bottom of mirror mount and slide upward between windshield mounting button and mirror mount. **(Fig. 1-14)**
- k) Grasp mirror head and gently wiggle it while pulling upwards to slide mirror off from windshield button.

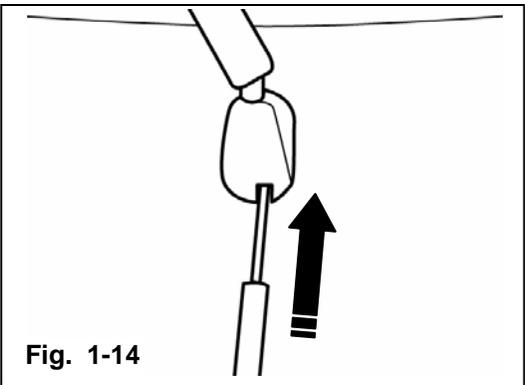


Fig. 1-14

2 EC Mirror Installation

1. Install EC mirror harness in headliner.

FOR VEHICLES WITH RAIN SENSOR, START AT STEP (1a).

FOR VEHICLES WITHOUT RAIN SENSOR, SKIP TO STEP (6a) THROUGH STEP (8a)

- a) Using fiberstick, route a portion of EC mirror harness into headliner to secure in place. **(Fig. 2-1)**
- b) Route connector end of harness out from headliner at the same point as rain-sensor harness. **(Fig. 2-1)**

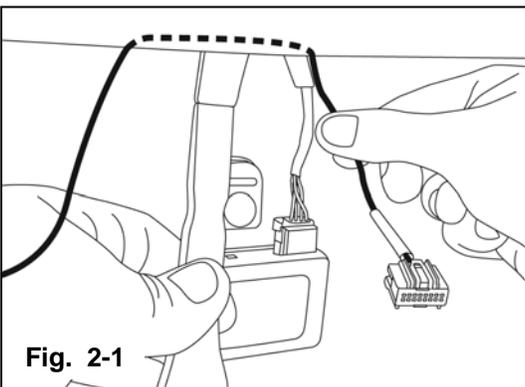
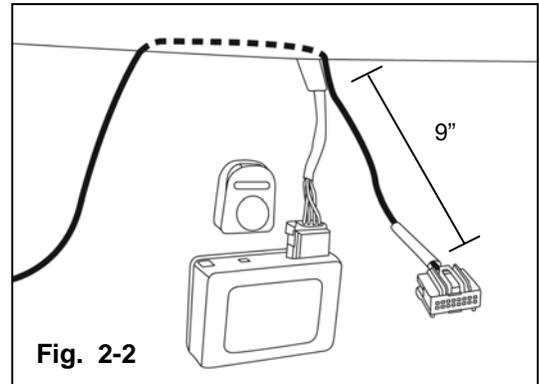


Fig. 2-1

- c) Pull approximately 9 inches of EC mirror harness down from headliner (measuring from headliner to end of connector). **(Fig. 2-2)**

NOTE

Adequate amount of EC harness is necessary for proper installation.

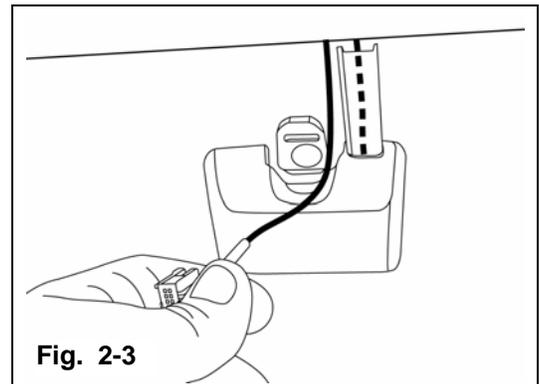


2. Install supplied rain-sensor cover.

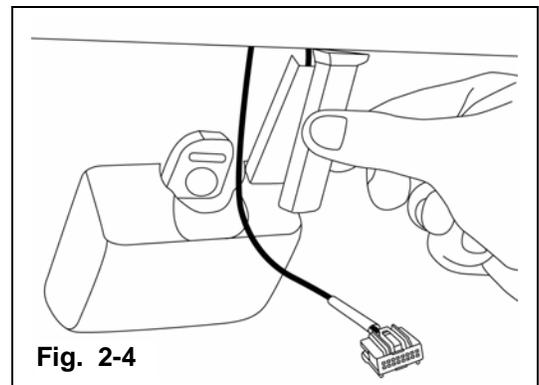
- a) Snap supplied rain-sensor cover over rain-sensor and rain-sensor harness. **(Fig. 2-3)**

NOTE

Ensure rain-sensor cover is fully secured.

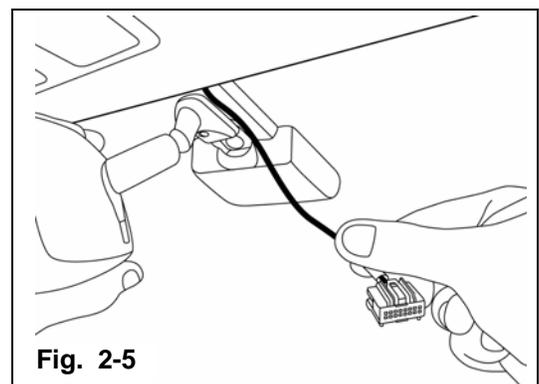


- b) Slide upper portion of wire cover up to headliner so the "forks" are held by the headliner and snap over rain-sensor cover base. **(Fig. 2-4)**

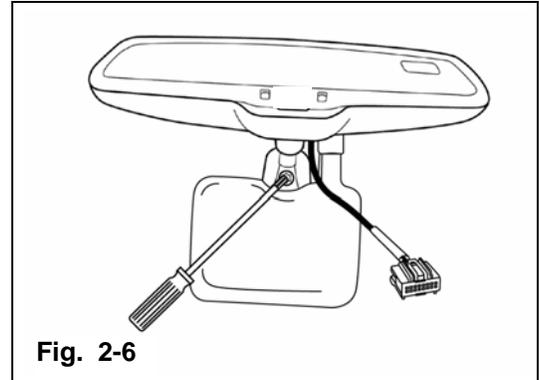


3. Attach EC mirror.

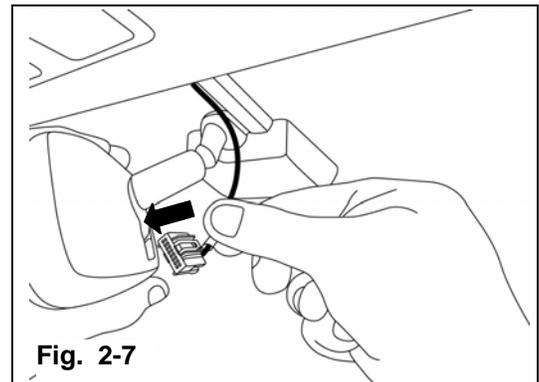
- a) Pull EC mirror harness towards passenger side of vehicle, so it is clear of mirror mounting button. **(Fig. 2-5)**
- b) Hold the mirror head and slide the mount downwards as far as possible over the windshield button, until fully seated. **(Fig. 2-5)**



- c) Using a #T20 Torx, tighten the mirror mounting bracket screw to 1.3 ft-lbs (17.8 kg-cm). **(Fig. 2-6)**



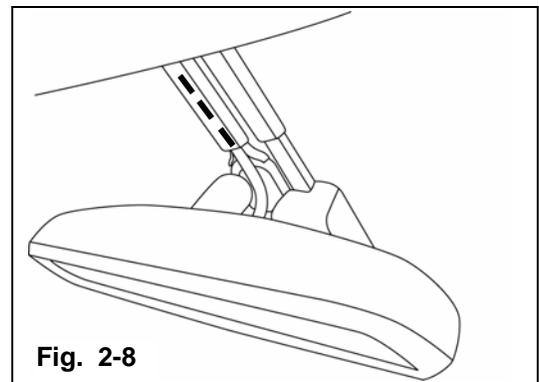
- 4. Plug 16-pin connector into back of EC mirror. **(Fig. 2-7)**



- 5. Install EC wire cover.

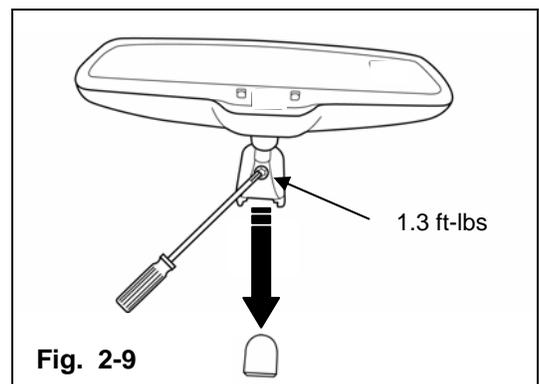
- a) Route power harness into groove of wire cover and attach wire cover to mirror base. **(Fig. 2-8)**
- b) Slide upper portion of wire cover up to headliner so the “forks” are held by the headliner. **(Fig. 2-8)**

Proceed to 3 – Route EC Mirror Harness with Video Cable to Vehicle Power

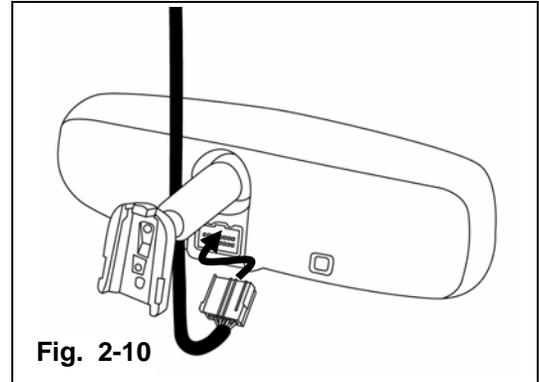


- 6. Attach EC mirror.

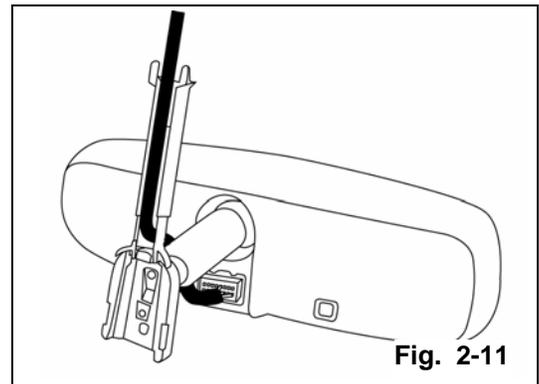
- a) Hold the mirror head and slide the mount downwards as far as possible over the windshield button, until fully seated. **(Fig. 2-9)**
- b) Using a #T20 Torx, tighten the mirror mounting bracket screw to 1.3 ft-lbs (17.8 kg-cm). **(Fig. 2-9)**



7. Plug 16-pin connector into back of EC mirror. (Fig. 2-10)

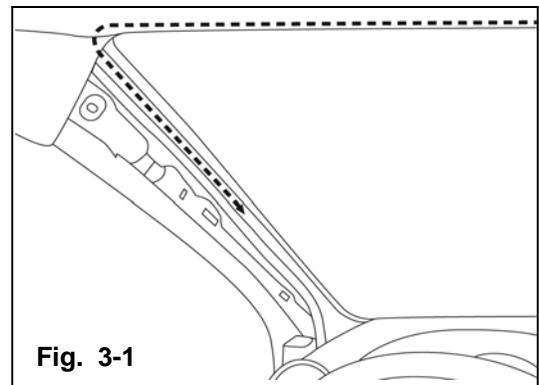


8. Route EC harness from mirror to headliner.
 - a) Route power harness into groove of wire cover and attach wire cover to mirror base. (Fig. 2-11)
 - b) Slide upper portion of wire cover up to headliner so the “forks” are held by the headliner. (Fig. 2-11)



3 Route EC Mirror Harness with Video Cable to Vehicle Power

1. Route EC harness to driver-side A-pillar.
 - a) Route power harness between vehicle headliner and roof to top of driver-side A-pillar area. (Fig. 3-1)

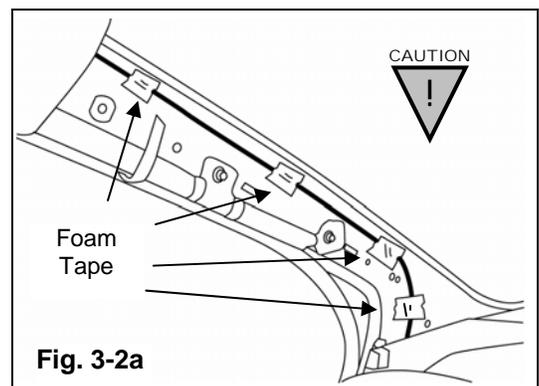


2. Route EC harness with vehicle cable down driver-side A-pillar.

FOR VEHICLES WITHOUT OEM HARNESS IN A-PILLAR, REFER TO (Fig. 3-2a)

IF OEM HARNESS IS PRESENT, SKIP TO NEXT STEP. (Fig. 3-2b)

- a) Route harness down A-pillar and secure with four (4) pieces of foam tape as shown. (Fig. 3-2a)



CAUTION
 Verify mirror harness path is clear of air bag (if equipped).

- b) Route harness down A-pillar and secure with three (3) tie wraps and one (1) piece of foam tape as shown. **(Fig. 3-2b)**

CAUTION



Verify mirror harness path is clear of air bag (if equipped).

CAUTION

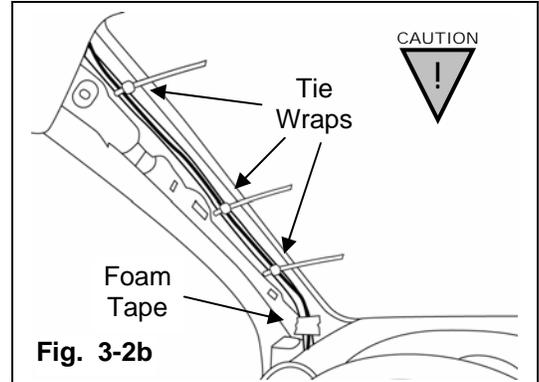


Do not secure harness to plastic drain tube.

CAUTION

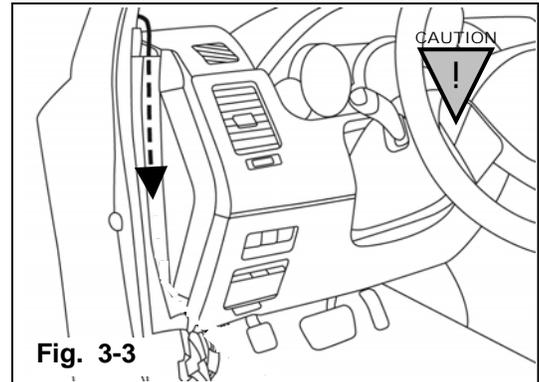


Routing of the video cable and removal of excess slack is extremely important to allow for adequate amount of cable at the rear of the vehicle.



3. Route EC harness with video cable to driver-side kick-plate area.

- a) Route EC harness with video cable through driver-side outer dash panel by tucking the harness between the outer dash panel and door jam. Following this routing will allow harness to be directly above the BCM. **(Fig. 3-3)**

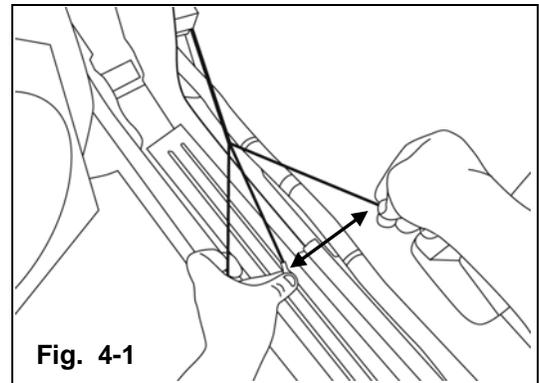


4

Connect Harness Power, Ground, and Reverse Input

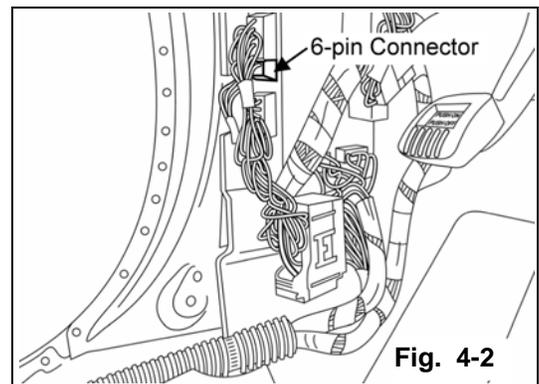
1. Separate EC harness power, ground, and reverse input wires (black wires).

- a) Pull power, ground, and reverse input wires apart (approx. 18 inches). **(Fig. 4-1)**

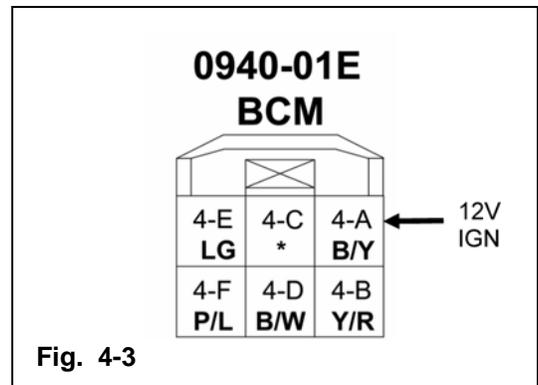


2. Attach wire tap connector to +12V ignition.

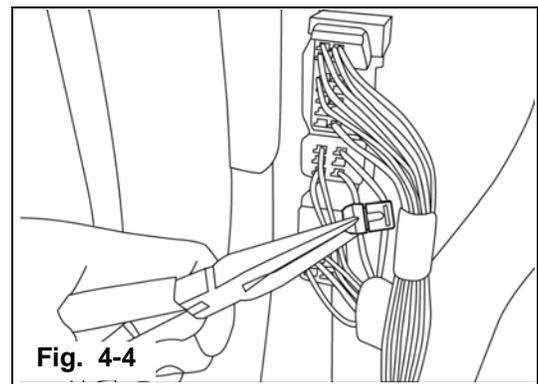
- a) Locate the 6-pin connector (0940-01E) in junction block in the driver-side kick plate area. **(Fig. 4-2)**



- b) Locate the **Black / Yellow-striped wire** in **pin #4-A** of the 6-pin connector. (Fig. 4-3)



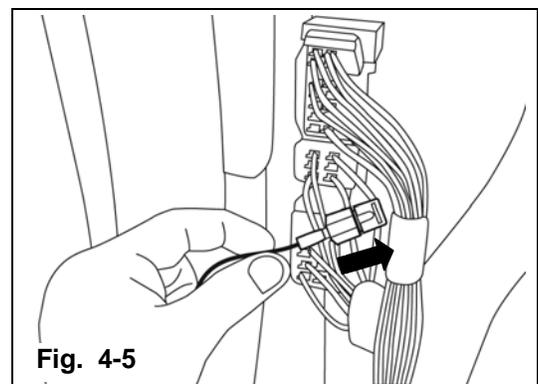
- c) Attach wire tap connector to **Black / Yellow-striped wire** in **pin #4A**, of the 6-pin connector. (Fig. 4-4)



3. Connect EC power harness to +12V ignition.

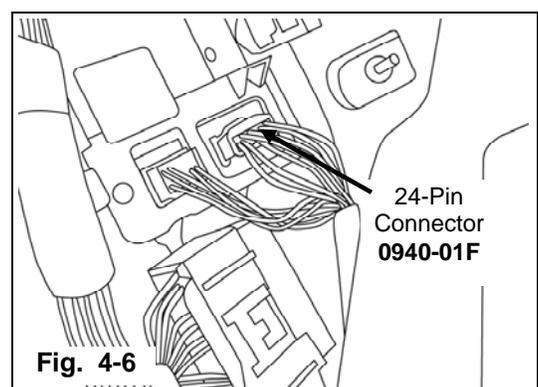
- a) Insert male spade terminal of **Black / White-striped wire** of power harness wire into opening of wire tap on the **Black / Yellow-striped wire**. (Fig. 4-5)

NOTE
 Ensure male spade connector is fully inserted into wire tap.

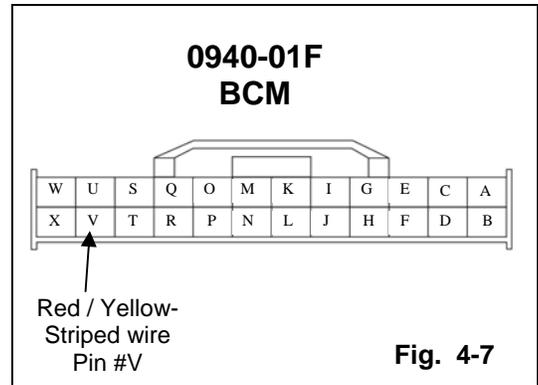


4. Attach wire tap connector to reverse input.

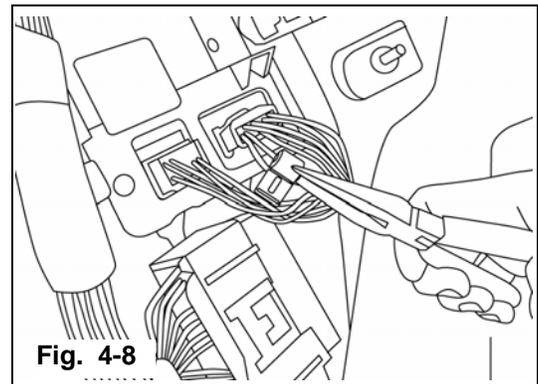
- a) Locate the BCM 24-pin connector (**0940-01F**) in junction block on driver-side kick plate area. (Fig. 4-6)



- b) Locate the **Red / Yellow-striped wire** in **pin # V** of the 24-pin connector. (Fig. 4-7)



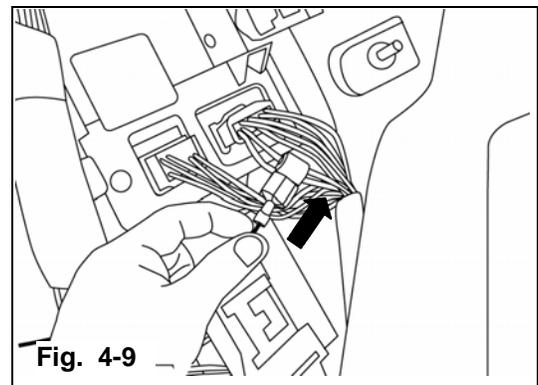
- c) Attach wire tap connector to **Red / Yellow-striped wire** in **pin # V**, of the 24-pin connector. (Fig. 4-8)



5. Connect EC power harness to reverse input.

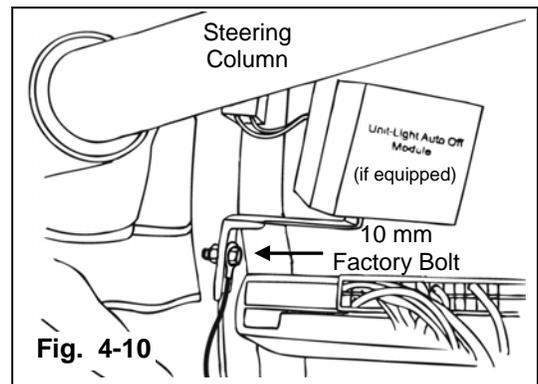
- a) Insert male spade terminal of **Black wire** of power harness into opening of wire tap on the **Red / Yellow-striped wire**. (Fig. 4-9)

NOTE
 Ensure male spade connector is fully inserted into wire tap.

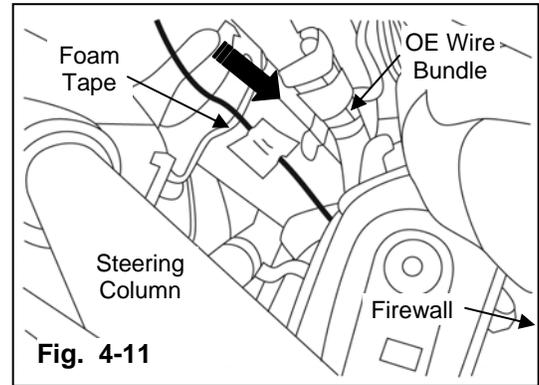


6. Connect EC power harness to ground.

- a) Locate the 10mm factory bolt, mounted high up under the dash, near the vehicle's dashwall, supporting the optional factory "Unit – Light Auto Off" module. (Fig. 4-10)
- b) Using a 10mm socket, remove bolt.
- c) Place ground ring from EC power harness, over bolt and re-install bolt. (Fig. 4-10)
- d) Tighten bolt to 78-121 in. lbs.

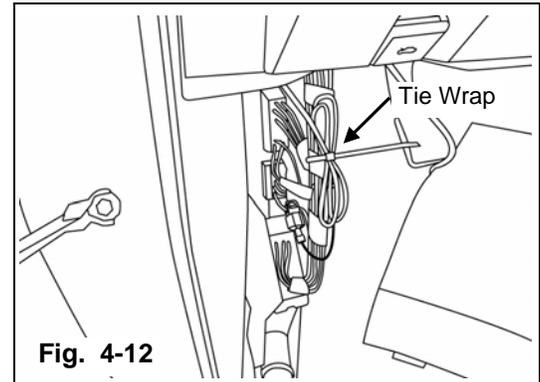


- e) Route EC ground wire toward OE wire bundle and secure with one (1) piece of foam tape to under dash tubing. **(Fig. 4-11)**



7. Secure remaining EC harness wires.

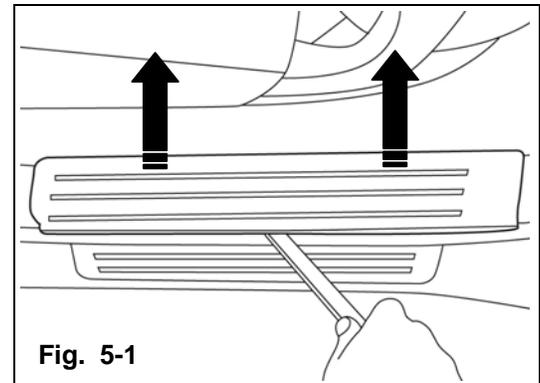
- a) Bundle any excess power harness wires.
- b) Secure bundled harness wires to factory wire bundle with one (1) tie wrap. **(Fig. 4-12)**



5 EC Mirror Video Cable Preparation

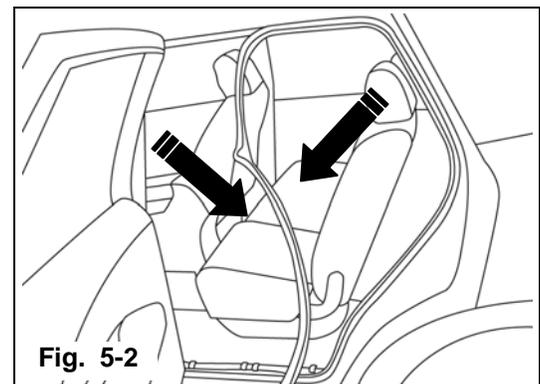
1. Remove driver-side, passenger rear scuff plate.

- a) Use fiberstick to disengage clips. **(Fig. 5-1)**



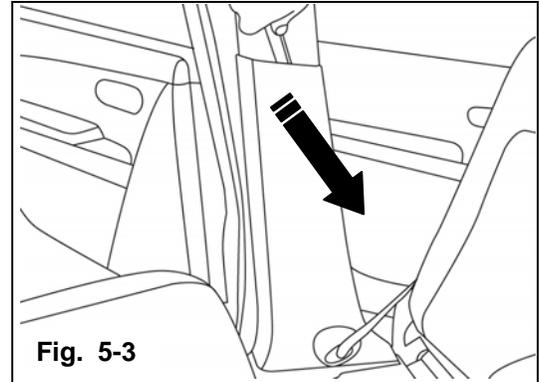
2. Remove driver-side, passenger rear door seal.

- a) Pull back past top of B-pillar and C-pillar trims. **(Fig. 5-2)**



3. Partially remove driver-side lower B-pillar trim.

- a) Using fiberstick, pull out top portion of lower B-pillar trim towards passenger-side of vehicle. (Fig. 5-3)

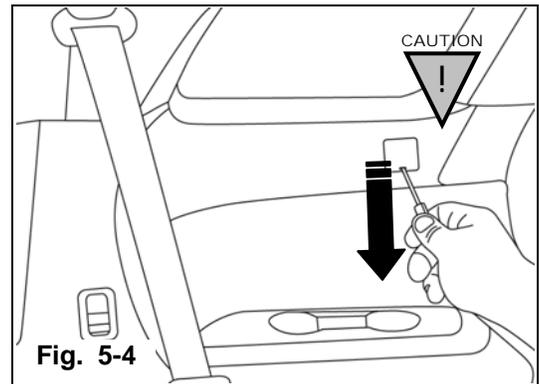


4. Remove driver-side rear panel.

- a) Remove upper right cover using 4mm screwdriver. (Fig. 5-4)



Use care not to scratch rear panel.

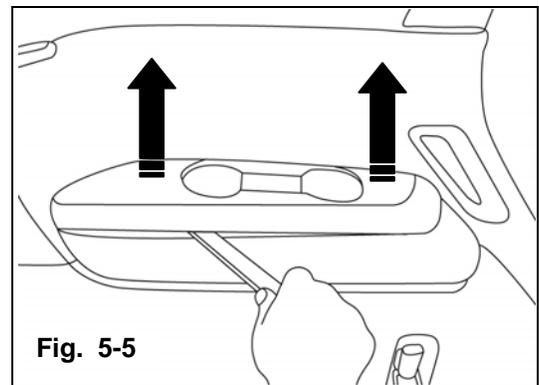


- b) Use fiberstick to disengage clips and remove cup holder upwards. (Fig. 5-5)

NOTE



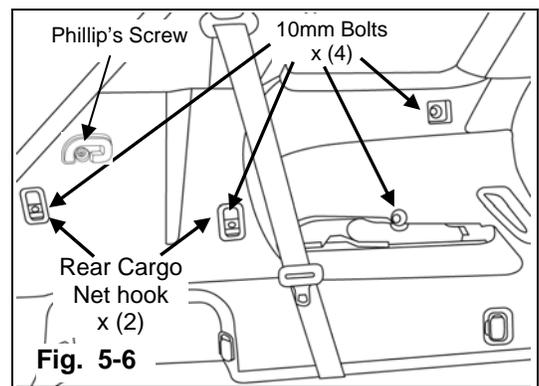
If vehicle is equipped with a rear entertainment system, a 12V power supply and video input cables will be integrated into the rear cupholder. Be sure to disconnect cables when removing rear cupholder and reconnect during installation.



- c) Remove four (4) 10mm bolts from upper panel. (Fig. 5-6)

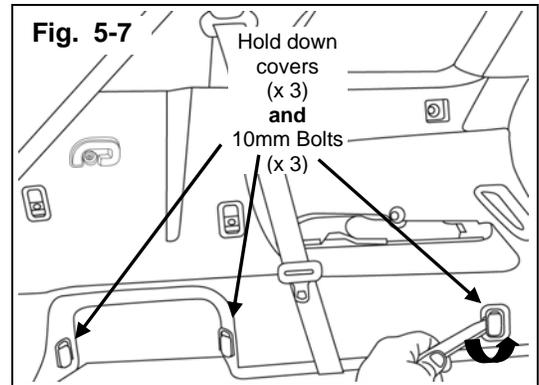
Tightening torque:
10mm Bolt: 60 in-lbs (6.8 N-m)

- d) Remove two (2) upper rear cargo net hooks. (Fig. 5-6)
- e) Remove one (1) phillip's screw from rear cargo support. (Fig. 5-6)



- f) Use fiberstick to swing open three (3) lower cargo net hook covers. **(Fig. 5-7)**
- g) Remove three (3) 10mm bolts securing cargo net hooks and remove. **(Fig. 5-7)**

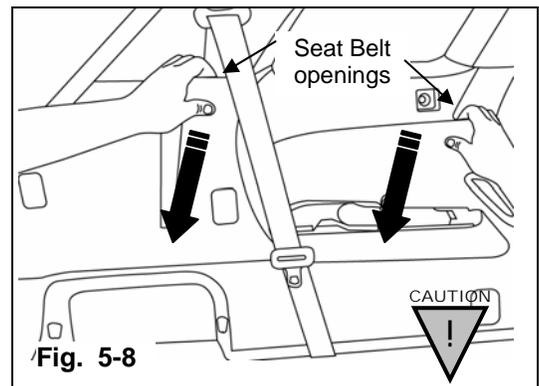
Tightening torque:
10mm Bolt: 60 in-lbs (6.8 N-m)



- h) Partially remove rear panel by pulling toward passenger side. **(Fig. 5-8)**

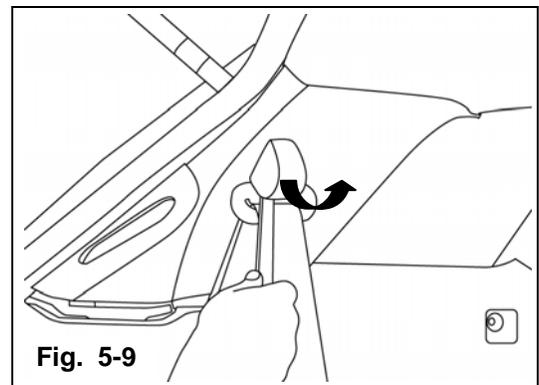
CAUTION

It is not necessary to remove rear panel to route video cable. This will assist in re-assembly and help to prevent damage.



5. Remove driver 3rd row upper seat belt bracket.

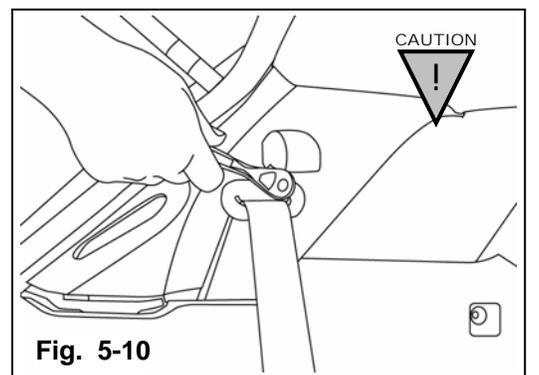
- a) Use fiberstick to rotate bracket cover upwards. **(Fig. 5-9)**



- b) Using 14mm socket, remove rear seat belt bracket. **(Fig. 5-10)**

CAUTION

When reinstalling bracket, be sure to tighten to: 28.2 – 57.8 in-lbs (38.2 – 78.4 N-m)

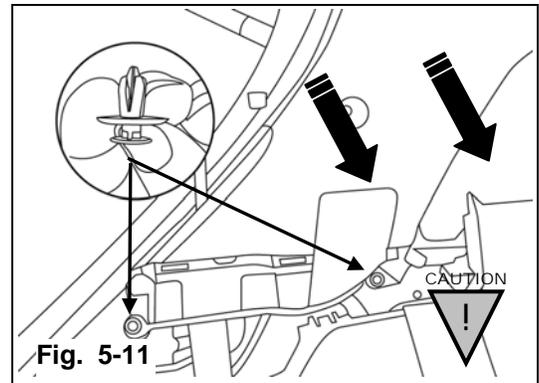


6. Remove driver-side D-pillar trim.

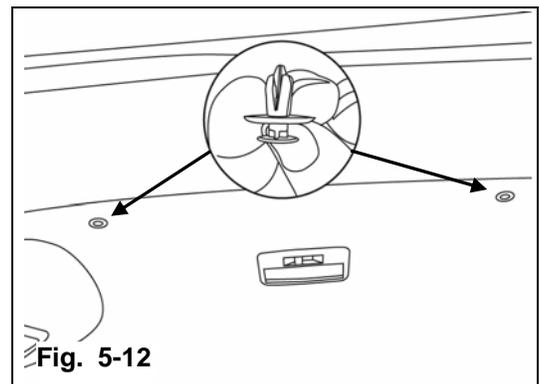
- a) Remove two (2) plastic fasteners at bottom of panel. **(Fig. 5-11)**
- b) Pull toward passenger side of vehicle to disengage clips and remove. **(Fig. 5-11)**

CAUTION

Care is needed when removing D-pillar from vehicle body, metal clips are used to retain body panel.

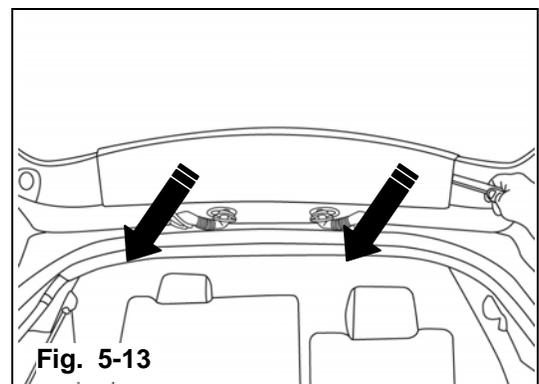


7. Remove two (2) plastic fasteners at rear of vehicle's headliner. (Fig. 5-12)



8. Remove rear lift gate center trim.

- a) Use fiberstick to disengage clips and remove. **(Fig. 5-13)**



9. Remove passenger-side lift gate trim.

- a) Remove one (1) plastic fastener at top of lift gate. **(Fig. 5-14)**
- b) Use fiberstick to disengage clips and remove. **(Fig. 5-14)**

