



## GENUINE ACCESSORIES INSTALLATION INSTRUCTIONS

### PART NUMBERS:

0000-8C-Z01 Electrochromic Mirror w/ Compass  
0000-8C-N03 Compass Installation Kit

### APPLICABLE MODELS:

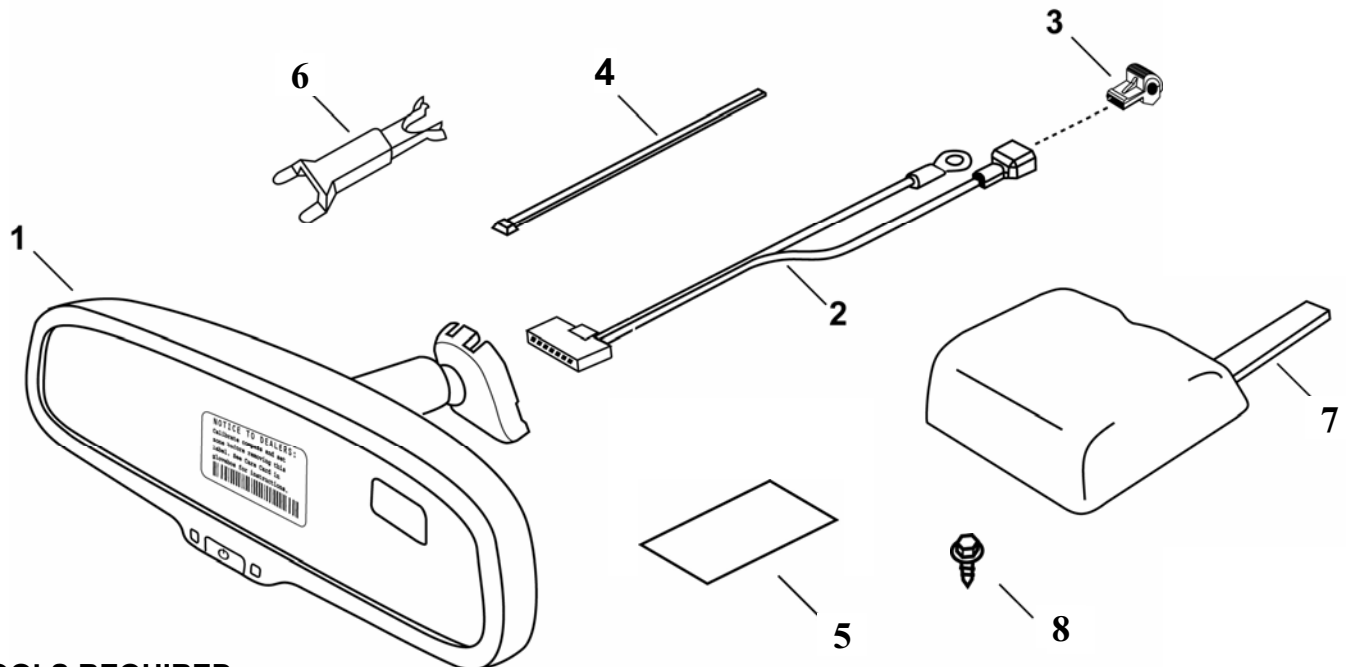
2007 >Mazda CX-9  
(Rain-sensor models ONLY)

### REQUIRED COMPONENTS:

ITEM	QTY	DESCRIPTION	SERVICE PART NUMBER
1	1	Mirror Assembly with Compass	0000-8C-Z01

### INSTALLATION KIT COMPONENTS:

2	1	Harness Assembly – Power and Ground	0000-8C-L26
3	1	Wire Tap	000-8C-H09
4	4	Tie Wrap	--
5	3	Foam Tape	--
6	1	Wire Cover	000-8C-H11
7	1	Rain Sensor Cover	0000-8C-L03
8	1	Self-Tapping Hex Screw (8mm)	--
9	1	Installation Instructions	--
10	1	User Guide	--



### TOOLS REQUIRED:

Clean Rag	Electrical Tape	4mm Flat Screwdriver	OEM Mirror Removal Tool
Fiberstick	#T20 Torx	Power Driver with:	(Ref. page 4, step e) and last
Pliers	Ratchet	- Socket Adapter	page of instructions)
Wire Cutters	10mm Socket	- 8mm Socket	

## 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.

Perform the following pre-installation steps:

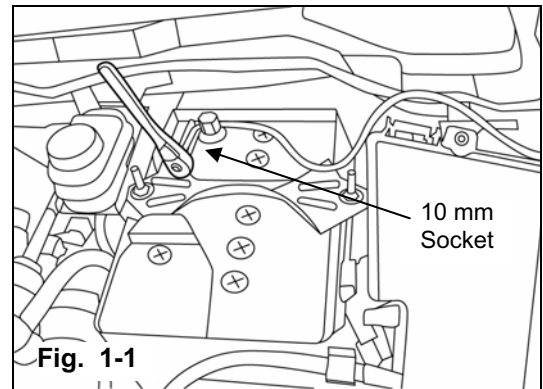
1. Place kit components on a clean, padded surface and inspect for damage or defects.
2. Record customer’s programmed radio stations (if applicable).

### 1

## Preparation

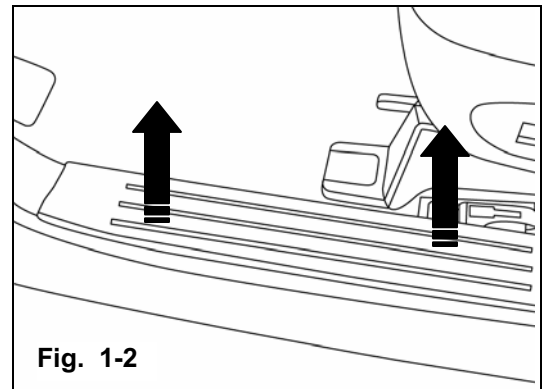
### 1. Disconnect negative battery terminal.

- a) Using 10 mm socket, remove negative battery terminal. (Fig. 1-1)



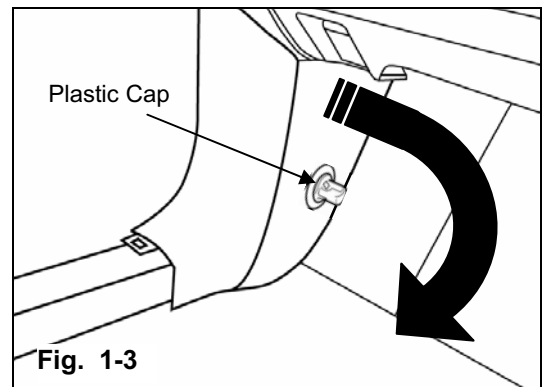
### 2. Remove driver-side scuff plate.

- a) Pull upward to disengage clips. (Fig. 1-2)



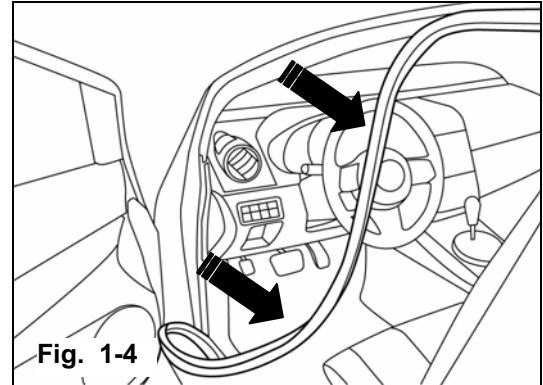
### 3. Remove driver-side kick plate.

- a) Unscrew plastic cap.
- b) Grasp kick plate at rear and pull out towards passenger-side of vehicle. (Fig. 1-3)



**4. Remove driver-side door seal.**

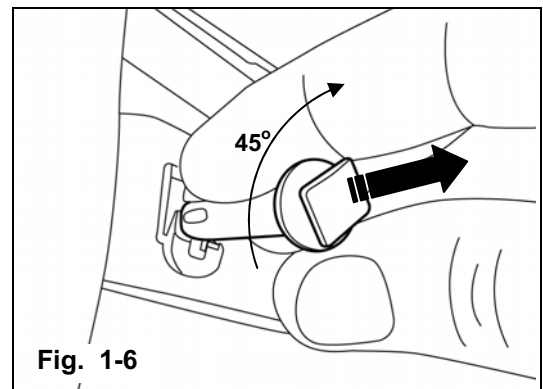
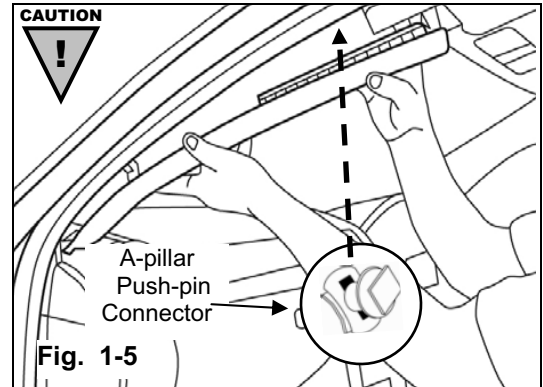
- a) Pull back past top of A-pillar trim. (Fig. 1-4)



**CAUTION** 5. Remove A-pillar trim.

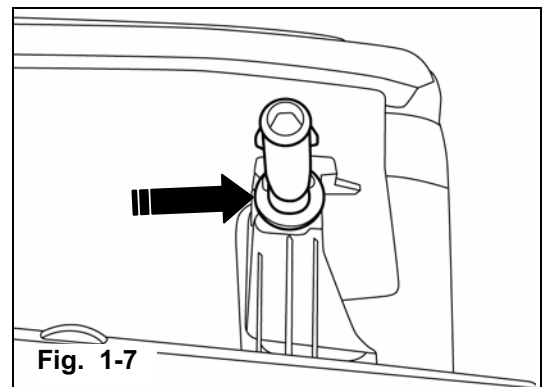
**!** Do not use excessive force. A-pillar connector could be damaged.

- a) Pull out the top portion of A-pillar trim towards passenger-side of vehicle until A-pillar push-pin connector is extended approximately 1/2". (Fig. 1-5)
- b) Grasp A-pillar trim with both hands then slide upward, to slide off from A-pillar push-pin connector. (Fig. 1-5)
- 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. 1-6)



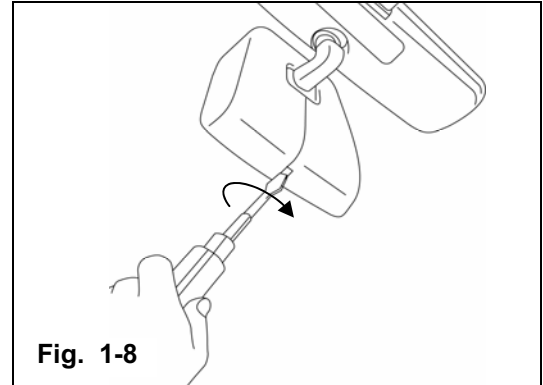
- e) Reinstall push-pin in A-pillar trim and rotate back into proper position to secure. (Fig. 1-7)

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



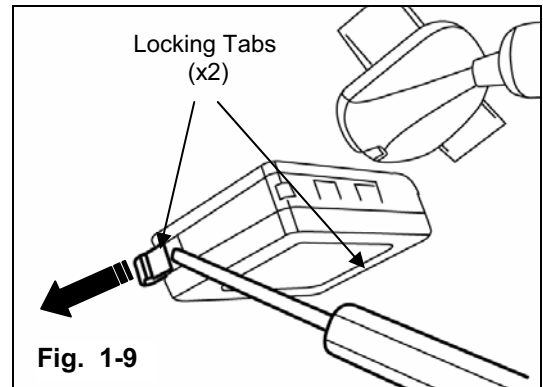
**6. Remove OE mirror.**

- a) Insert 4mm screwdriver in slot at the bottom of the OE rain-sensor cover. **(Fig. 1-8)**
- b) Twist the head of the screwdriver to disengage the two halves of the cover. **(Fig. 1-8)**



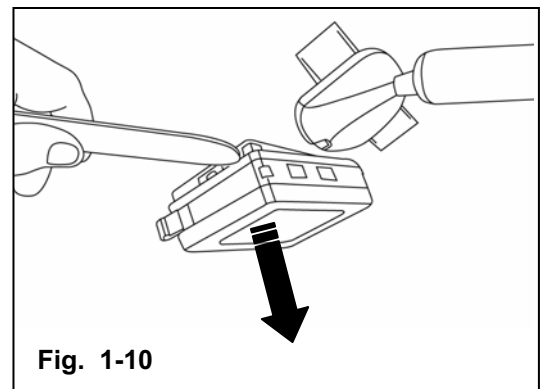
- c) Using 4mm screwdriver, slide the two (2) locking tabs downward on the rain-sensor. **(Fig. 1-9)**

**NOTE**  
**!** Ensure both tabs are fully extended downward.



- d) Insert fiberstick at corner of rain-sensor and gently twist and pry downward to remove. **(Fig. 1-10)**

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

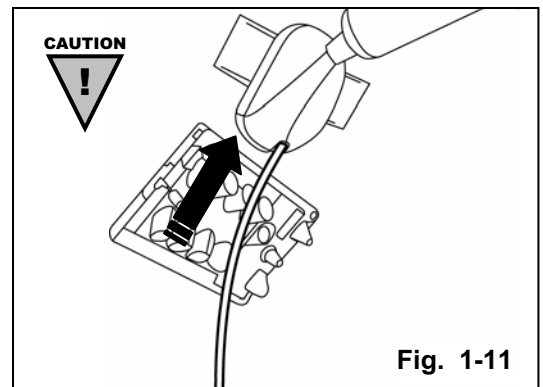


- e) To complete removal of OEM mirror, it is easier to use special tool shown on last page of instructions. Figure 1-11 shows mirror removal using special tool.

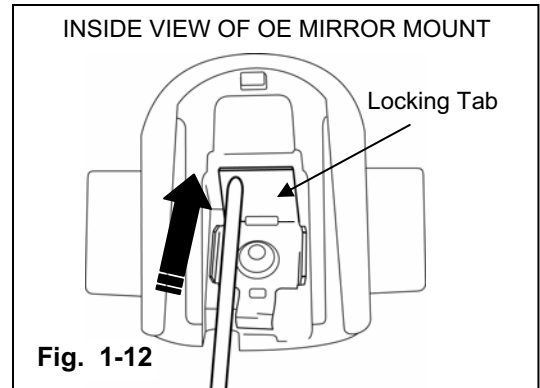
**CAUTION**  
**!** Do not pry or damage rain-sensor during mirror removal.

**CAUTION**  
**!** Do not damage inner components of rain-sensor unit.

- f) Insert OEM mirror removal tool into notch at bottom of mirror mount and slide upward between windshield mounting button and mirror mount. **(Fig. 1-11)**



- g) Push on locking tab while performing the next step. **(Fig. 1-12)**
- h) Grasp mirror head and gently wiggle it while pulling upwards to slide mirror off from windshield button.
- i) Reinstall rain-sensor and rain-sensor harness connector.

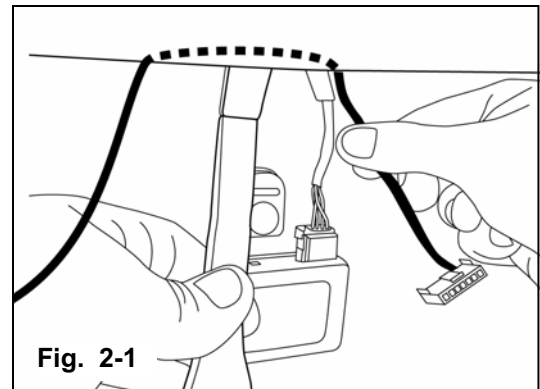


## 2

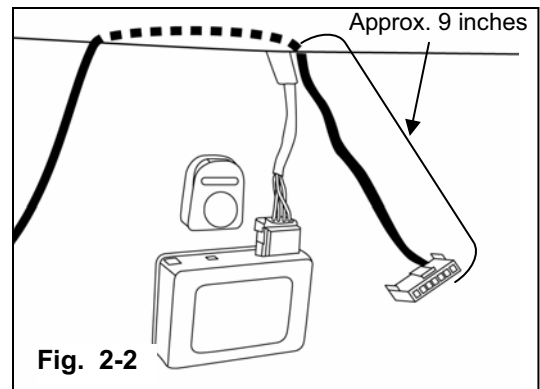
**EC Mirror Installation**

### 1. Install EC mirror harness in headliner.

- 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)**



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

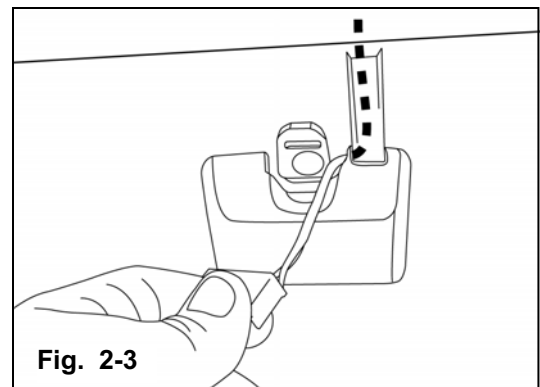


**NOTE**

**!** Adequate amount of EC harness is necessary for proper installation

### 2. Install supplied rain-sensor cover.

- a) Route EC mirror harness alongside rain-sensor harness.
- b) Snap supplied rain-sensor cover over rain-sensor and both wire harnesses. **(Fig. 2-3)**
- c) Route EC mirror harness out of rain-sensor cover through notch as shown. **(Fig. 2-3)**



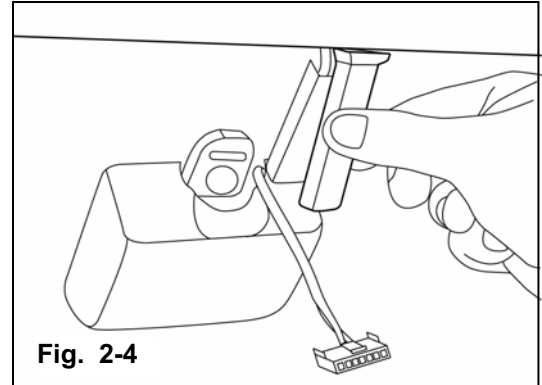
**NOTE**

**!** Ensure rain-sensor cover is fully secured.

**NOTE**

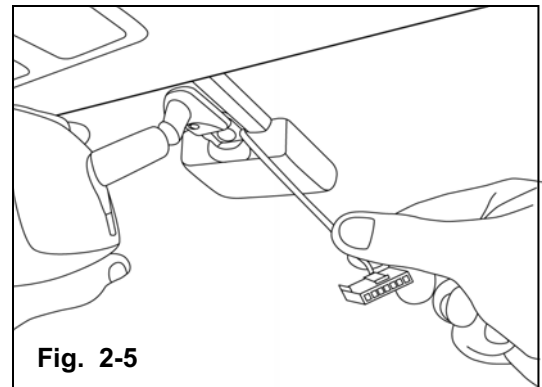
**!** Ensure EC mirror harness is routed out through notch in cover.

- d) 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)

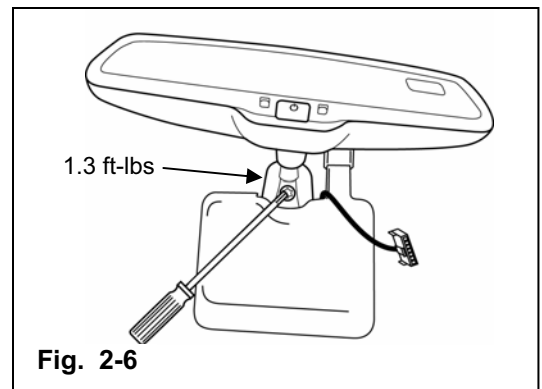


### 3. Attach EC mirror.

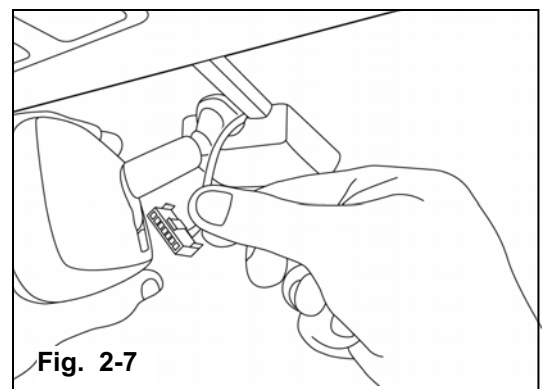
- a) Pull EC mirror harness towards passenger side of vehicle, so it is clear of mirror mounting button. (Fig. 2-5)
- b) Hold the mirror head and slide the mount downwards as far as possible over the windshield button, until fully seated. (Fig. 2-5)



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



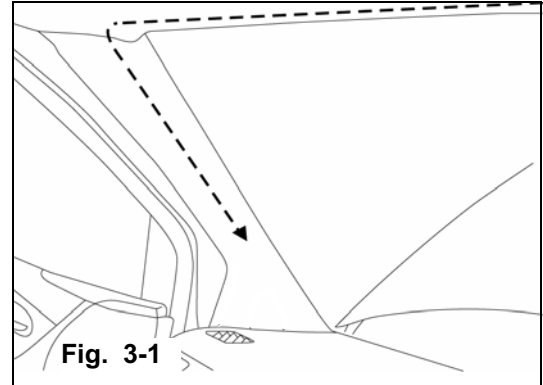
- 4. Plug 7-pin connector into back of EC mirror. (Fig. 2-7)



### 3 Route EC Mirror Harness 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)

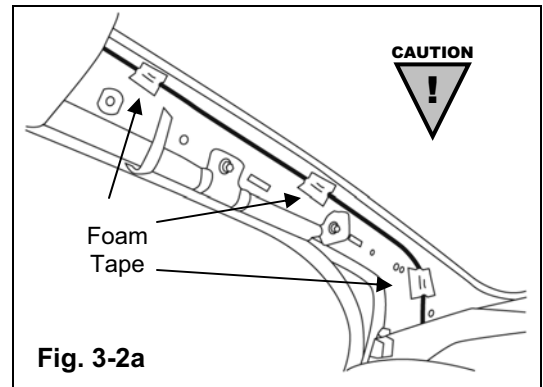


#### 2. Route EC harness down driver-side A-pillar.

**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)**

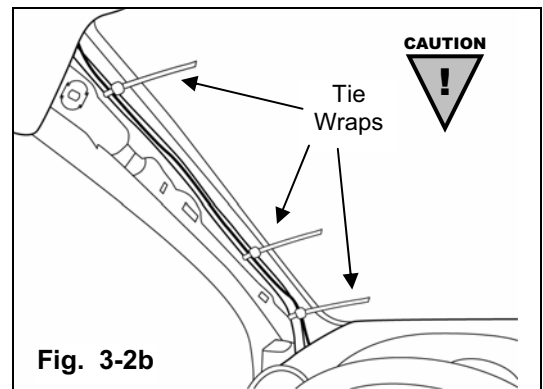
- a) Route harness down A-pillar and secure with three (3) pieces of foam tape as shown. (Fig. 3-2a)



CAUTION

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

- b) Route harness down A-pillar and secure with three (3) small tie wraps as shown. (Fig. 3-2b)



CAUTION

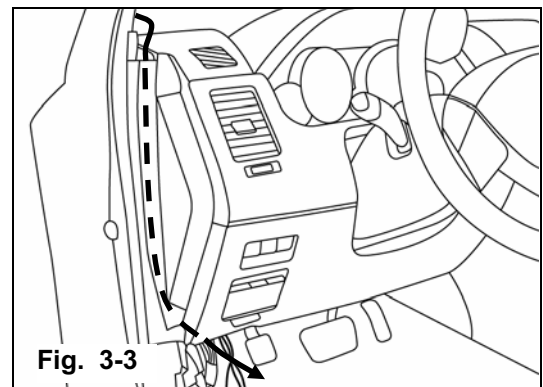
Verify mirror harness path is clear of air bag (if equipped).

CAUTION

Do not secure harness to plastic drain tube.

#### 3. Route power harness to driver-side kick-plate area.

- a) Route power harness through driver-side outer dash panel and into kick-plate area. (Fig. 3-3)

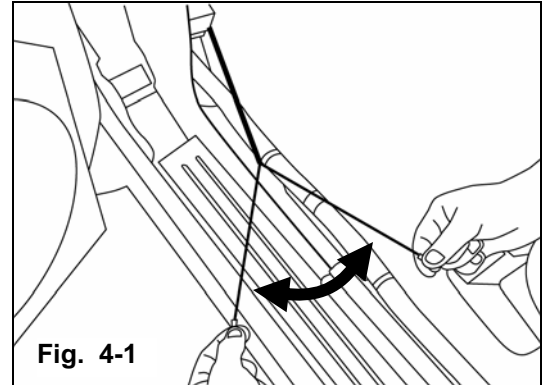


## 4

### Connect Harness Power and Ground

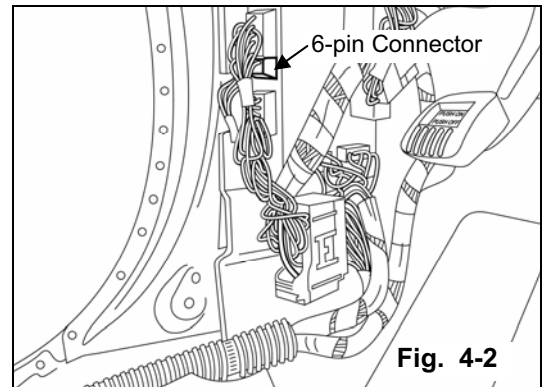
#### 1. Separate EC harness power and ground wires.

- a) Pull power and ground wires apart (approx. 8 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)

#### NOTE

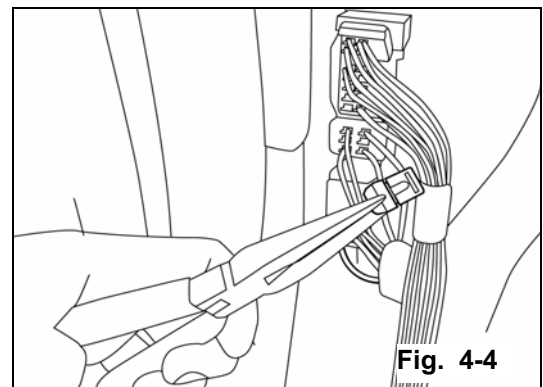
Ensure correct wire (Pin location 4-A) is identified.

#### 0940-01E BCM

4-E LG	4-C *	4-A B/Y	← 12V IGN
4-F P/L	4-D B/W	4-B Y/R	

Fig. 4-3

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





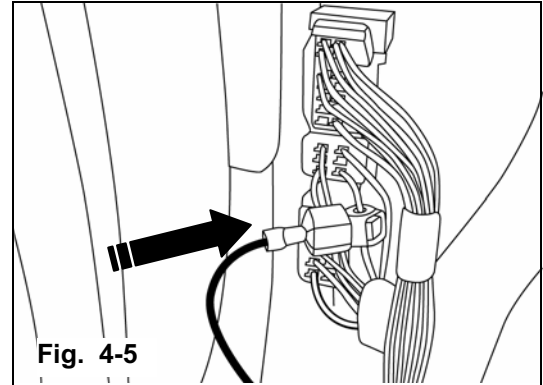
**3. Connect EC power harness to +12V ignition.**

- a) Insert male spade terminal 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.**



**Fig. 4-5**

**NOTE**



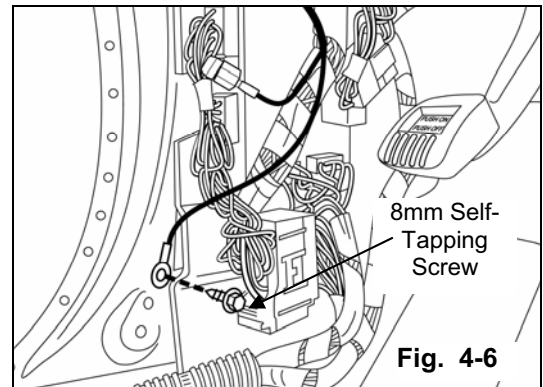
**Before proceeding, cover carpet with shop-rag to catch shavings.**

- 4. Insert 8mm self-tapping screw from installation kit, through ground ring of EC harness ground wire.
- 5. Using power driver and 8mm socket, drive screw into vehicle cowl area sheet metal, as shown. **(Fig. 4-6)**

**CAUTION**



**Do not over-tighten screw.**



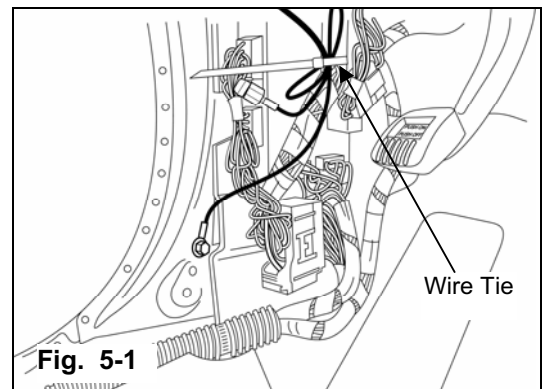
**Fig. 4-6**

**5**

**Secure Remaining Harness Wires**

**1. Bundle excess power harness and secure.**


- a) Bundle any excess power harness wires.
- b) Secure bundled harness wires to factory wire bundle with one (1) tie wrap. **(Fig. 5-1)**



**Fig. 5-1**

## 6


### Testing

1. Reconnect negative battery cable.
2. Turn the ignition switch ON.
3. With the vehicle in a fairly well-lit area, perform the following:
  - a) To make sure the auto-dimming feature is on, verify that the green LED to the left of the center switch is on. If it is not on, push the  button to turn the green LED on.
  - b) Cover the forward looking photocell on the back of mirror with a dark cloth or towel. (Fig. 6-1)

In a few seconds, the mirror will begin to darken.

#### NOTE

 Time to darken will vary with ambient light level.

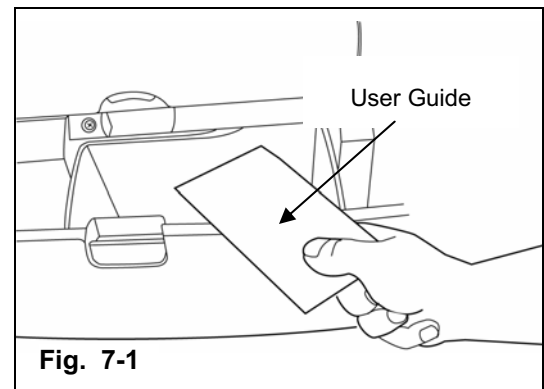
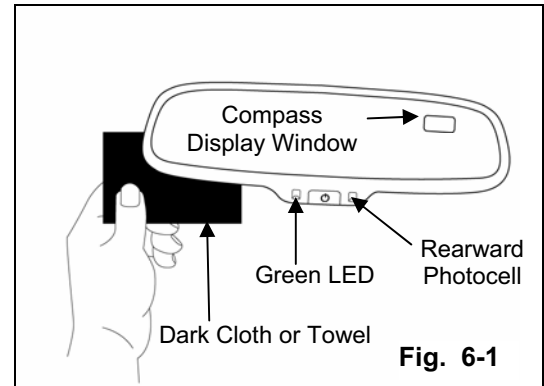
- c) Remove the cover from the forward looking photo cell and the mirror will begin to clear.
- d) Verify that either a direction, such as NE, or "C" is displayed in the display window. If not, ensure the feature is turned ON by pressing the  button.

4. Testing is now complete.

## 7

### Installation of Removed Components

1. Trim excess off all tie wraps.
2. Reinstall in reverse order, all trim pieces removed during installation.
3. Place User Guide in vehicle glove-box. (Fig. 7-1)
4. Remove fingerprints, smudges, dirt, etc. from mirror.
5. Reprogram radio station presets.



## 8

### Compass Zone Adjustment (Dealer Install ONLY)

#### 1. Calibrate compass.

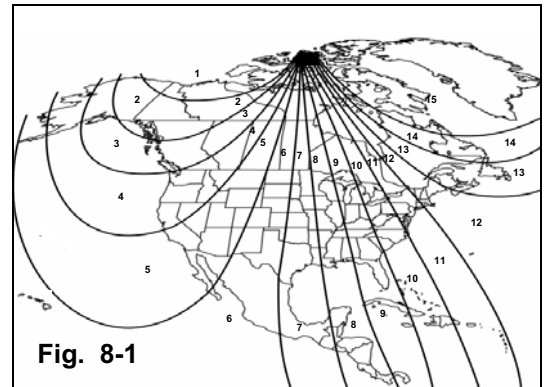
- a) Drive to an open, level area, away from large metallic objects or structures.
- b) Hold the power button for approximately 9 seconds until "C" text appears in the display. Release the right button to enter the calibration mode.
- c) Drive slowly in up to 3 circles until the "C" disappears, and a directional heading is displayed. The compass is now calibrated.

## 9

### Compass Calibration (Dealer Install ONLY)

#### 1. Adjust compass zone after EC mirror installation.

- a) The zone setting is factory preset to Zone 8. Refer to Compass Calibration Zone Map (**Fig. 8-1**) to find correct compass zone setting for your geographical location. Use same map from User Guide.
- b) To change the zone setting, push and hold the power button until a number appears in the display. Press button repeatedly until desired compass zone number is reached.



## 10 Inspection

- Inspection parts differ depending on the vehicle.
- Inspect the installed / reinstalled parts for the following items:

Inspection Parts	Inspection Items (○)			
	Clearance / Fit	Scratches / Dirt / Harness Interference	Installation / Tightening / Engagement	Operation Check
Negative battery terminal			○	
Driver-side scuff plate	○	○	○	
Driver-side door seal	○		○	
Driver-side kick plate	○	○	○	
Driver-side A-pillar trim	○	○	○	
EC mirror torx screw			*1 ○	
EC mirror harness connector			○	
EC mirror features:				
- auto-dimming				*2 ○
- compass display				*3 ○
User Guide			*4 ○	

○: Applicable

\*1: Tightened to 1.3 ft-lbs. (17.8 kg-cm).

\*2: Mirror dims (key must be in ON position).

\*3: Displays either "C" or directional heading (key must be in ON position).

\*4: In vehicle glove-box.

Date:            /            /					
Vehicle:					
VIN:					
Approved		Checked		Person in charge	

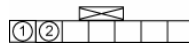
The term of validity for this sheet: 3 months

## BASIC INSTALLATION TROUBLE-SHOOTING

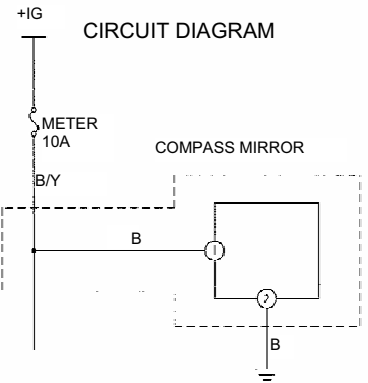
Verify the following:

- Switched harness wire (pin 6) is receiving 12V with ignition ON.
- Ground wire is securely attached.
- Harness is fully inserted into mirror.
- Harness is not pinched, cut or damaged.

### CONNECTOR PIN-OUT



PIN	FUNCTION	NOTE
1	+12VDC SWITCHED	IGNITION
2	GROUND	
3		
4		
5		
6		
7		



**CAUTION**



**When the battery is disconnected, the DSC will stop operating.**

(The DSC OFF indicator will flash at this time, and the TCS/DSC operation indicator will illuminate.)

Carry out the following procedure to reactivate DSC:

1. Turn the ignition switch to "OFF" and then turn it back to "ON".
2. Turn the steering wheel clockwise as far as it will go, and then turn it back counterclockwise as far as it will go.
3. Check that the TCS/DSC operation indicator is turned off.
4. Turn the ignition switch to "OFF" and then turn it back to "ON".
5. Check that the TCS/DSC operation indicator is turned off. If the TCS/DSC operation indicator is still illuminated or the DSC indicator is not turned off when the ignition switch is turned back to "ON", contact your Mazda dealer.

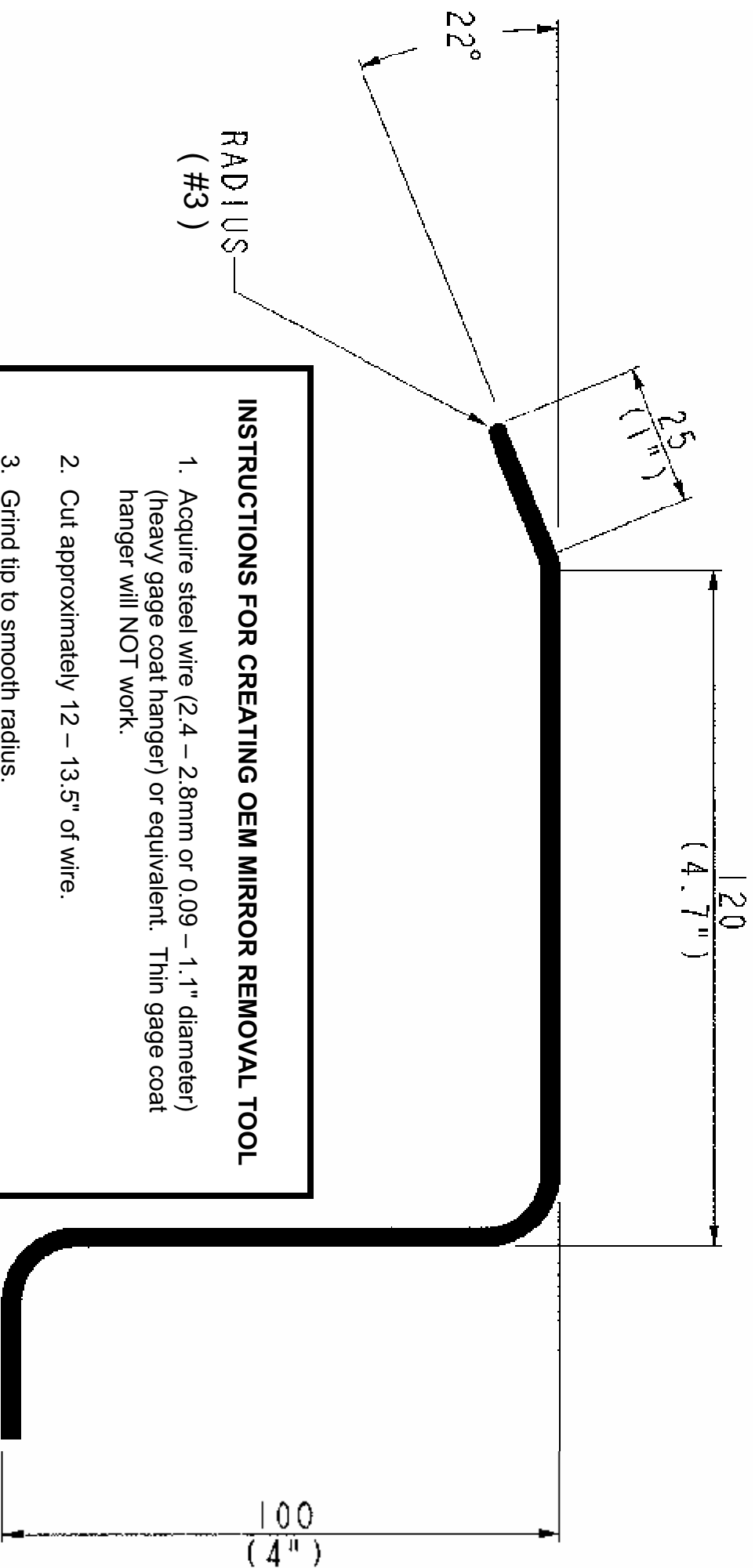
**CAUTION**



**If the battery is disconnected, the power windows will no longer fully open or fully close automatically.**

Carry out the following operation at driver seat first and passenger seat to restore normal operation:

1. Turn the ignition key to the "ON" position.
2. Press the power window switch to fully open the power windows.
3. Lift up the power window switch to fully close the power windows, and keep it pulled up for approximately 2 seconds.
4. Position the engine switch at OFF, and then at ON again. When the function doesn't work after these procedures, please contact your Mazda dealer.



**INSTRUCTIONS FOR CREATING OEM MIRROR REMOVAL TOOL**

1. Acquire steel wire (2.4 – 2.8mm or 0.09 – 1.1" diameter) (heavy gage coat hanger) or equivalent. Thin gage coat hanger will NOT work.
2. Cut approximately 12 – 13.5" of wire.
3. Grind tip to smooth radius.
4. Using pliers, bend wire to shape specified on drawing.

**FACTORY MIRROR HEAD REMOVAL TOOL**

**NOTES:**

1. MATERIAL: STEEL
2. DIAMETER: 2.4 - 2.8 (0.09 - 1.1")
3. MATERIAL LENGTH: 305 - 343 (12 - 13.5")