



**GENUINE ACCESSORIES
INSTALLATION INSTRUCTIONS**

PART NUMBERS:

0000-8C-Z02 Electrochromic Mirror w/ Compass
0000-8C-N02 Compass / HomeLink® Installation Kit

APPLICABLE MODELS:

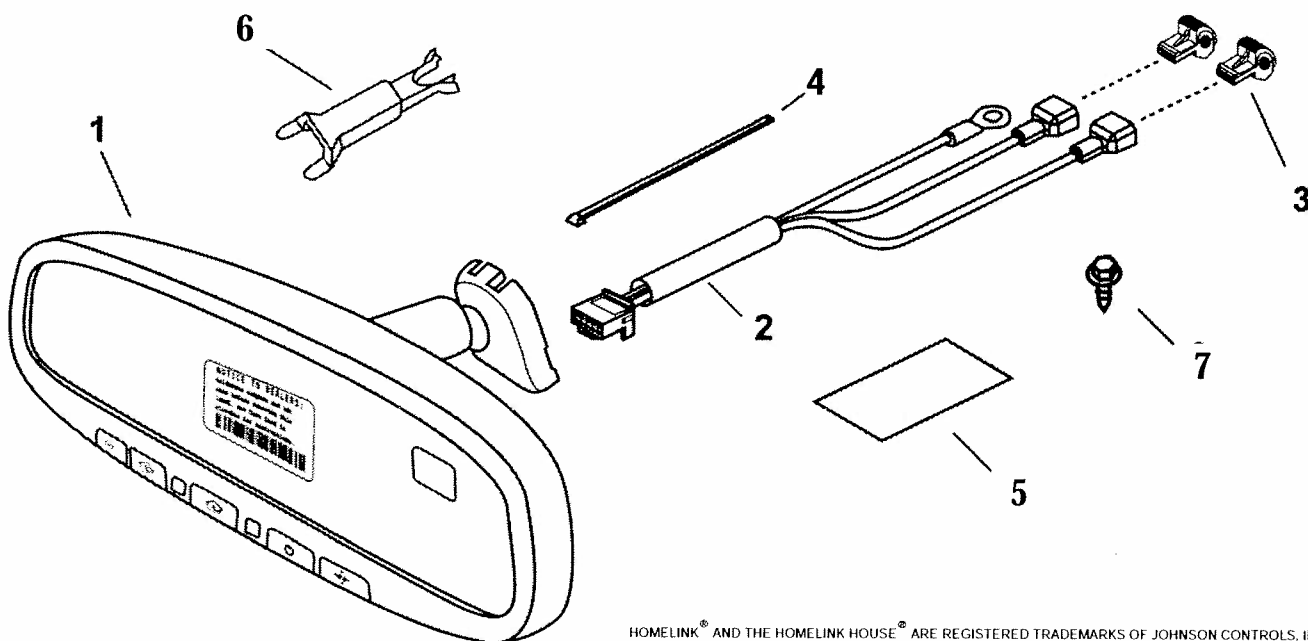
2007 >Mazda CX-9

REQUIRED COMPONENTS:

ITEM	QTY	DESCRIPTION	SERVICE PART NUMBER
1	1	Mirror Assembly with Compass and HomeLink®	0000-8C-Z02

INSTALLATION KIT COMPONENTS:

2	1	Harness Assembly – Power and Ground	0000-8C-H12
3	2	Wire Tap	000-8C-H09
4	4	Tie Wrap	--
5	3	Foam Tape	--
6	1	Wire Cover	000-8C-H11
7	1	Self-Tapping Hex Screw (8mm)	--
8	1	Installation Instructions	--
9	1	User Guide	--



HOMELINK® AND THE HOMELINK HOUSE® ARE REGISTERED TRADEMARKS OF JOHNSON CONTROLS, INC.

TOOLS REQUIRED:

Clean Rag
Fiberstick
Pliers

Wire Cutters
Electrical Tape
#T20 Torx

Ratchet
10mm Socket
4mm Flat Screwdriver

Power Driver with:
- Socket Adapter
- 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.

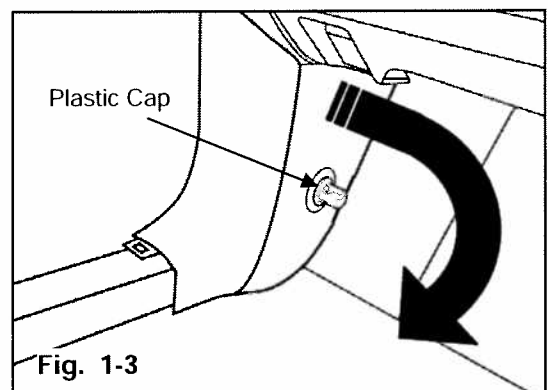
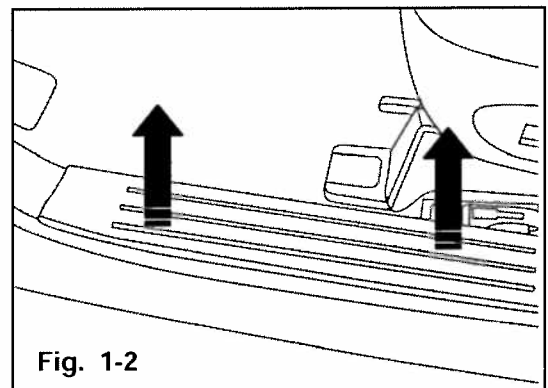
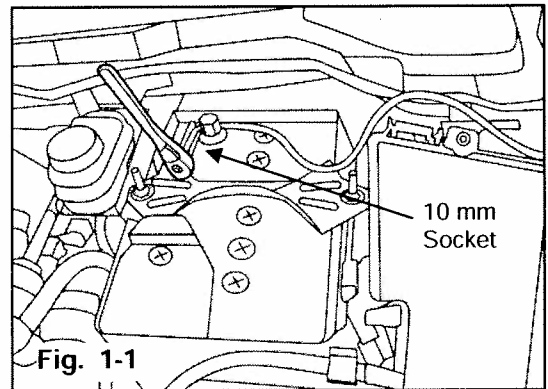
Perform the following pre-installation steps:

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

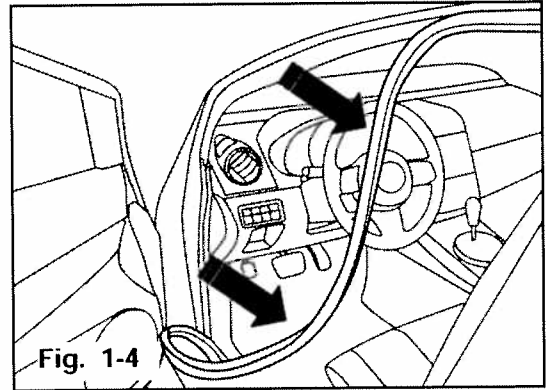
Preparation

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)

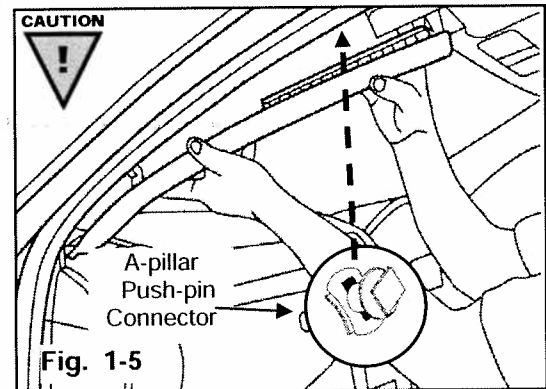


5. Remove A-pillar trim.

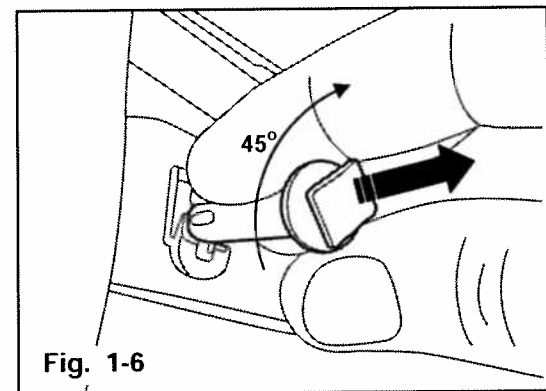
CAUTION

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

- a) Pull out the top portion of A-pillar trim towards passenger-side of vehicle until A-pillar push-pin connector is extended approximately $\frac{1}{2}$ ". (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.



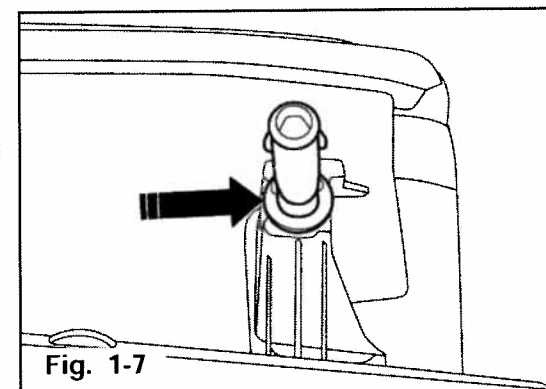
- d) Rotate the extended portion of the A-pillar push-pin connector, 45 degrees and remove pin from A-pillar. (Fig. 1-6)



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

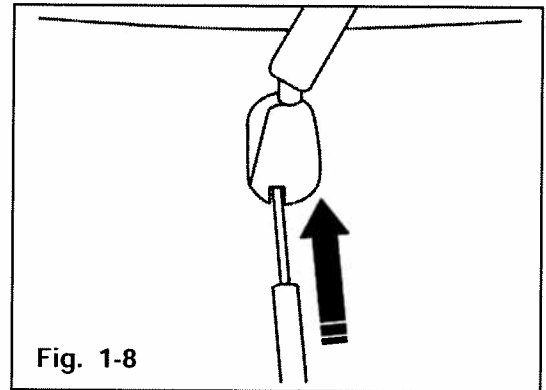
NOTE

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



6. Remove OE mirror.

- a) Insert 4mm screwdriver into notch at bottom of mirror mount and slide upward between windshield mounting button and mirror mount. (Fig. 1-8)
- b) Grasp mirror head and gently wiggle it while pulling upwards to slide mirror off from windshield button.

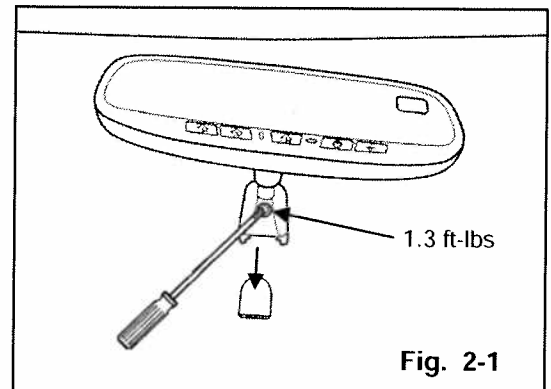


2

EC Mirror Installation

1. Attach EC mirror.

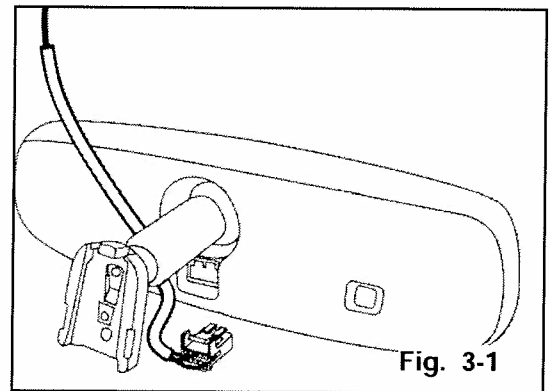
- a) Hold the mirror head and slide the mount downwards as far as possible over the windshield button, until fully seated.
- b) Using a #T20 Torx, tighten the mirror mounting bracket screw to 1.3 ft-lbs (17.8 kg-cm). (Fig. 2-1)



3

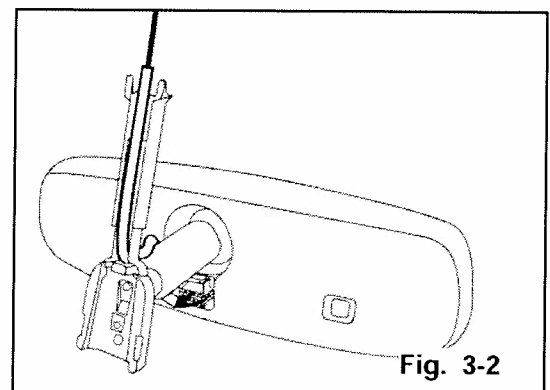
Route EC Mirror Harness to Vehicle Power

1. Plug 10-pin connector into back of EC mirror. (Fig. 3-1)



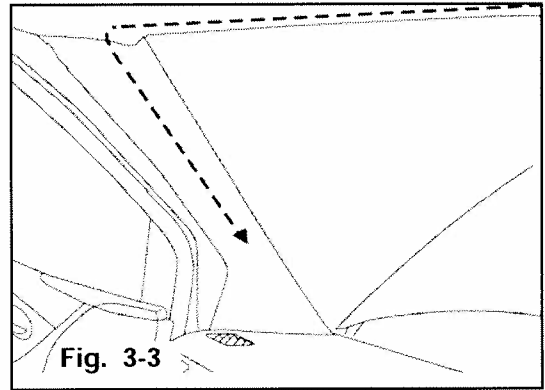
2. Route EC harness from mirror to headliner.

- a) Route power harness into groove of wire cover and attach wire cover to mirror base. (Fig. 3-2)
- b) Slide upper portion of wire cover up to headliner so the "forks" are held by the headliner. (Fig. 3-2)



3. 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. 3-3)

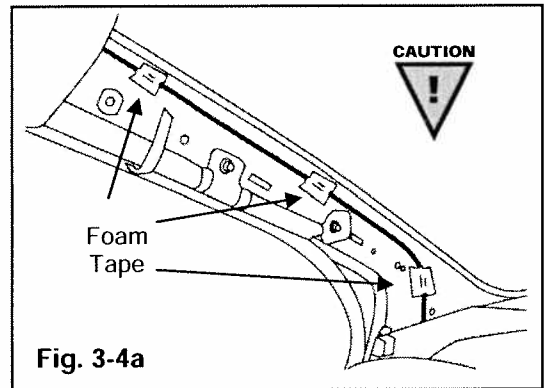


4. Route EC harness down driver-side A-pillar.

FOR VEHICLES WITHOUT OEM HARNESS IN A-PILLAR, REFER TO (Fig. 3-4a)

IF OEM HARNESS IS PRESENT, SKIP TO NEXT STEP. (Fig. 3-4b)

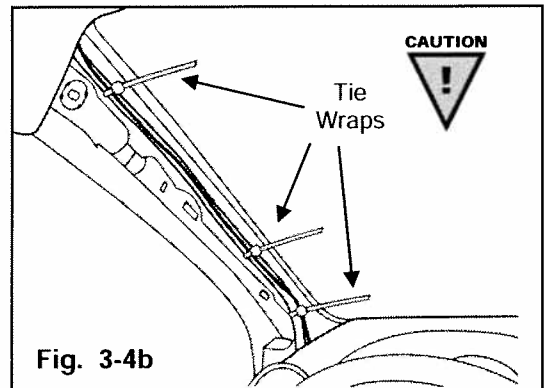
- a) Route harness down A-pillar and secure with three (3) pieces of foam tape as shown. (Fig. 3-4a)



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. 3-4b)



CAUTION

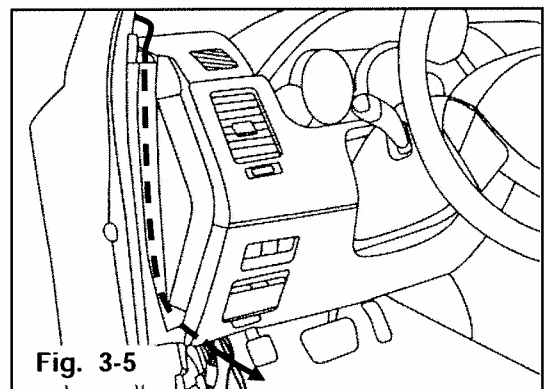
Verify mirror harness path is clear of air bag (if equipped).

CAUTION

Do not secure harness to plastic drain tube.

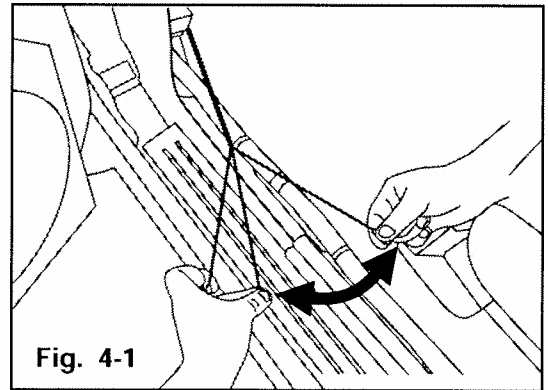
5. Route power harness to driver-side kick-plate area.

- a) Route power harness through driver-side outer dash panel and into kick-plate area. (Fig. 3-5)

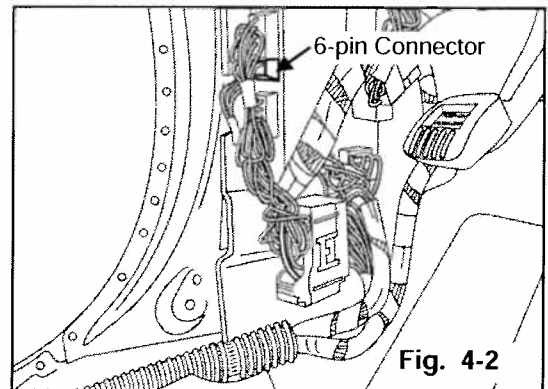


4**Connect Harness Power and Ground****1. Separate EC harness power and ground wires.**


- a) Pull power and ground wires apart (approx. 8 inches). (Fig. 4-1)

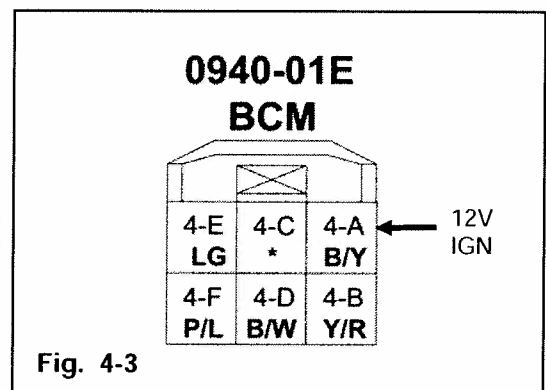
**2. Attach wire tap connector to +12V ignition.**

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

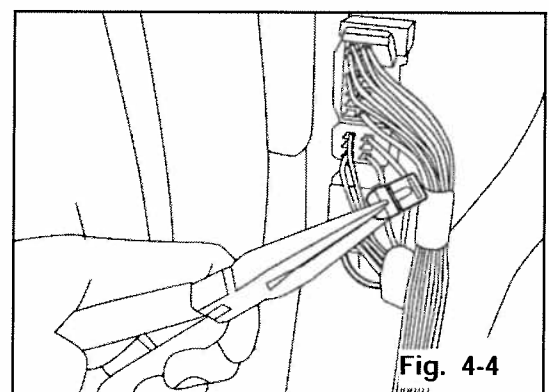


- b) Locate the Black / Yellow-striped wire in pin #4-A, of the 6-pin connector. (Fig. 4-3)

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




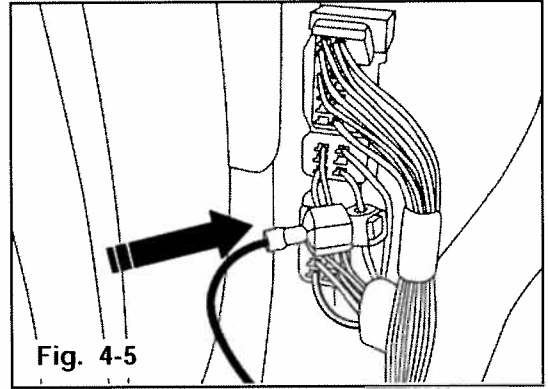
- c) Attach wire tap connector to Black / Yellow-striped wire in pin #4-A, of the 6-pin connector. (Fig. 4-4)



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

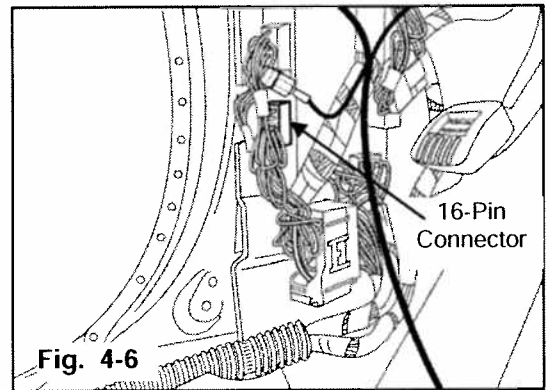
- a) Insert male spade terminal of **Black / White-striped** wire into opening of wire tap on the **Black / Yellow-striped** wire. (Fig. 4-5)

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




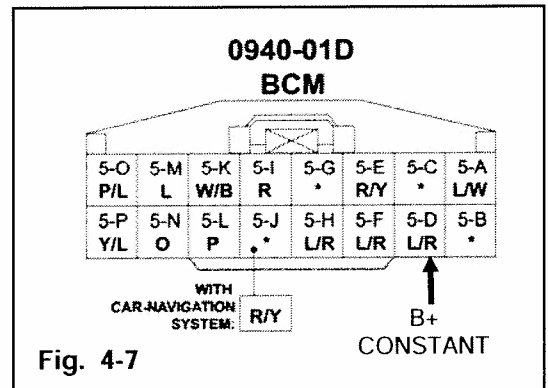
4. Attach wire tap connector to B+ Constant.

- a) Locate the 16-pin connector (0940-01D) in junction block in the driver-side kick plate area. (Fig. 4-6)

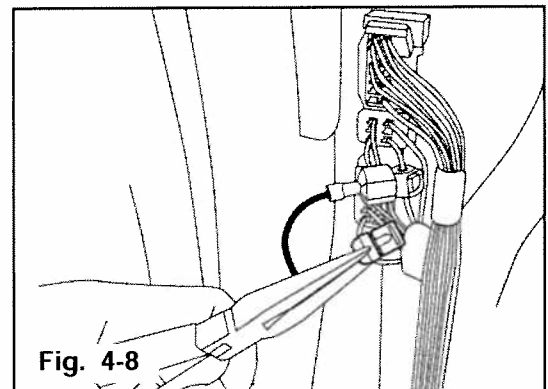


- b) Locate the **Blue / Red-striped** wire in pin #5-D, of the 16-pin connector. (Fig. 4-7)

NOTE
 **Ensure correct wire (Pin location 5-D) is identified.**



- c) Attach wire tap connector to **Blue / Red-striped** wire in pin #5-D, of the 16-pin connector. (Fig. 4-8)



5. Connect EC power harness to B+ Constant.

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

NOTE



Ensure male spade connector is fully inserted into wire tap.

NOTE



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

6. Insert 8mm self-tapping screw from installation kit, through ground ring of EC harness ground wire.
7. Using power driver and 8mm socket, drive screw into vehicle cowl area sheet metal, as shown. (Fig. 4-10)

CAUTION



Do not over-tighten screw.

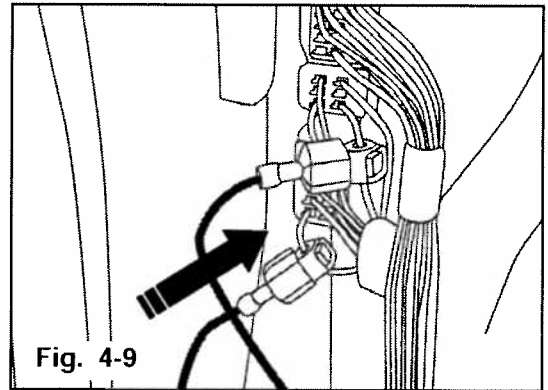


Fig. 4-9

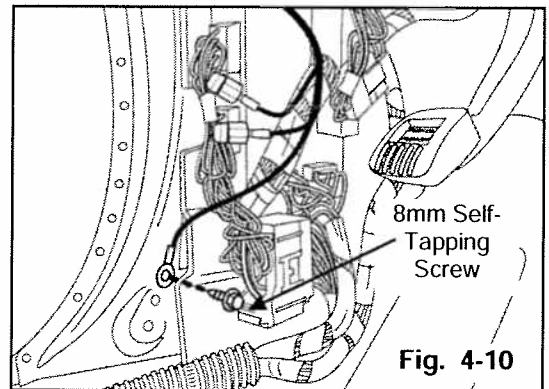


Fig. 4-10

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)

NOTE



Vacuum metal shavings from footwell area carpet.

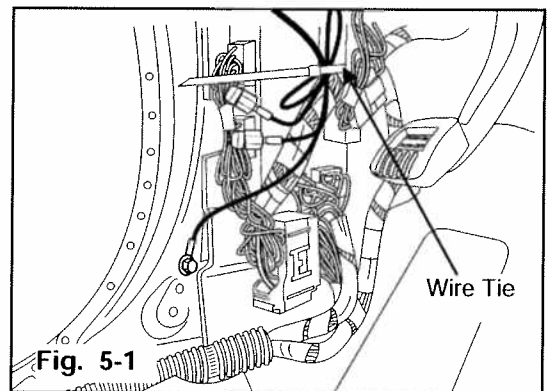



Fig. 5-1


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  switch 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.

NOTE

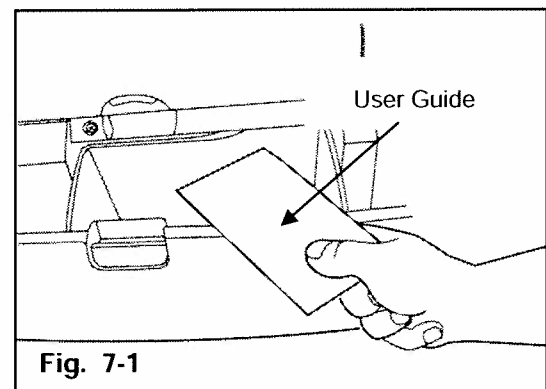
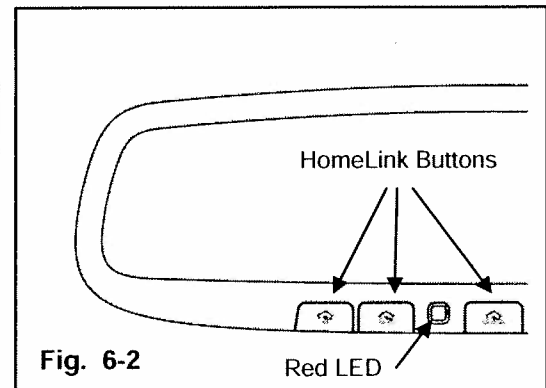
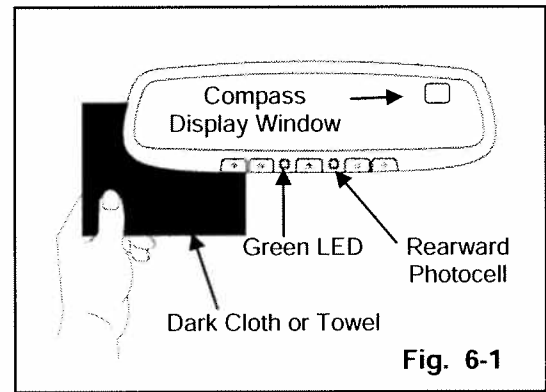
4. Turn the ignition key to the OFF position.

If compass remains on refer to page 8 and recheck installation.

5. Push each HomeLink[®] button, one at a time, and verify that LED indicator to the left of the center switch illuminates with a red LED. (Fig. 6-2)
6. 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)

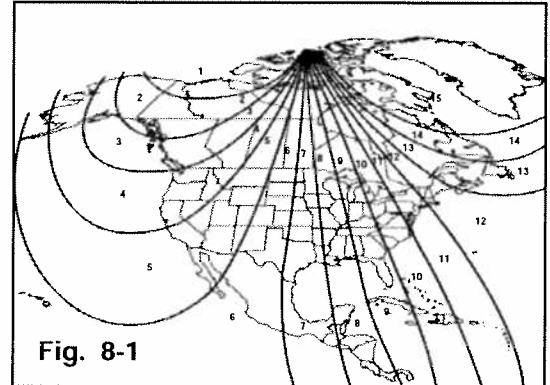


4. Remove fingerprints, smudges, dirt, etc. from mirror.
5. Reprogram radio station presets.

8

Compass Zone Adjustment (Dealer Install ONLY)

1. 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 right button until a number appears in the display. Press button repeatedly until desired compass zone number is reached.



9

Compass Calibration (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.

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 ○
- HomeLink*				*4 ○
User Guide			*5 ○	

○: 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: Red LED illuminates when each button is pushed (key must be in OFF position).

*5: In vehicle glove-box.

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

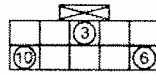
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BASIC INSTALLATION TROUBLE-SHOOTING

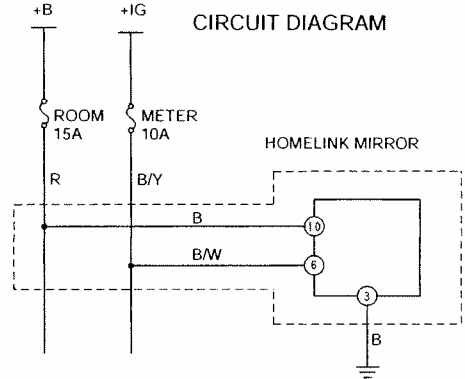
Verify the following:

- B+ harness wire (pin 10) is receiving 12V with ignition OFF.
- 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		
2		
3	GROUND	
4		
5		
6	+12VDC SWITCHED	IGNITION
7		
8		
9		
10	+12VDC	BATTERY



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.