



**GENUINE ACCESSORIES
INSTALLATION INSTRUCTIONS**

550-0527 Rev. AAA



PART NUMBER:
0000 8C Z08B

APPLICABLE MODELS:
2012 > Mazda5

REQUIRED COMPONENTS:

ITEM	QTY	DESCRIPTION	Usage Chart
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MIRROR ASSEMBLY:

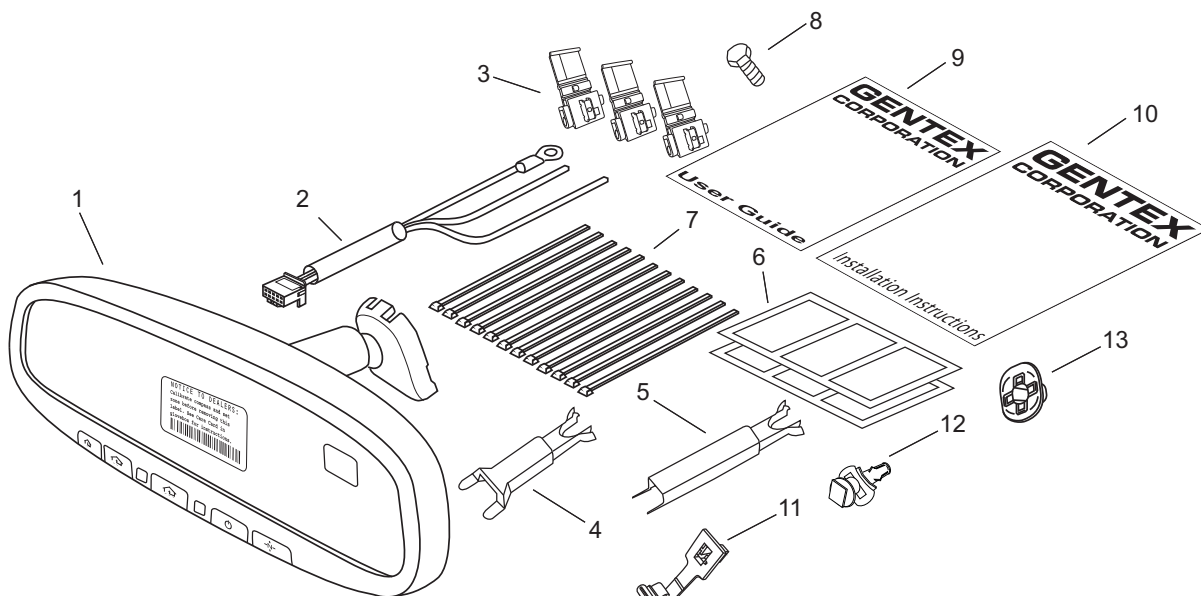
1	1	Mirror Assembly w/ Compass & Homelink®	①
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INSTALLATION KIT:

2	1	EC Harness - Power and Ground	①
3	3	IDC Wire Connector	②
4	1	Wire Cover (Short)	①
5	1	Wire Cover (Long)	X
6	6	Foam Tape	X
7	12	Wire Tie	⑧
8	1	Ground Bolt (10mm)	X
9	1	User Guide	①
10	1	Installation Instructions	①
11	1	Mazda2 - A-Pillar Tether Clip (D651-68-162A)	X
12	1	Mazda5 - A-Pillar Clip (GJ6A-68-162)	①
13	1	Mazda5 - A-Pillar Grommet (GJ6A-68-155A)	①

**Installation kit may have more components than necessary. Please refer to the chart above and the instructions for required components.

Not Used with this Application	X
Used (Including Amount)	⑫



TOOLS REQUIRED:

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

10mm Socket	Ratchet	Fiberstick	Needle Nose Pliers
4mm Flat Screwdriver	#T20 Torx Driver	Wire Cutters	Pliers
Clean Rag			

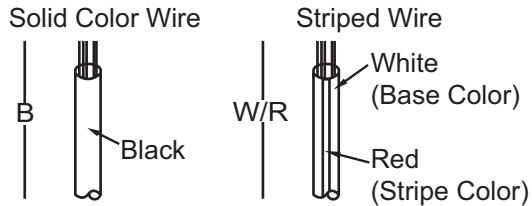
WIRE CODES

Two-color wires are indicated by a two-letter symbol. The first indicates the base color of the wire, the second indicates the color of the stripe. For example:

W/R = White wire with a red stripe

BR/Y = Brown wire with a yellow stripe

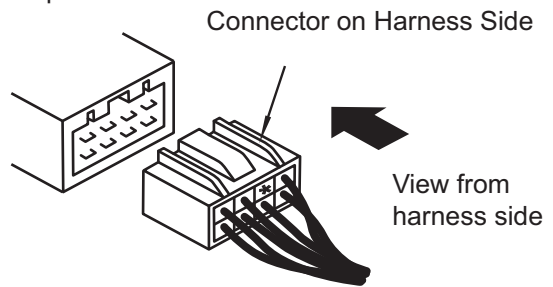
Symbol (Example):



CONNECTOR DIAGRAMS

Connector diagrams show connectors on the harness side. The terminal indicates the view from the harness side.

Example:

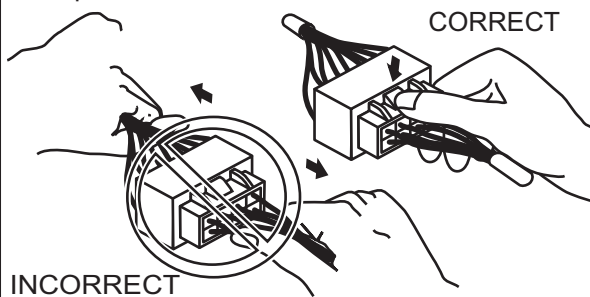


Unused terminals are indicated by "*"

DISCONNECTING CONNECTORS

When disconnecting the wires, grasp the connectors, not the wires.

Example:



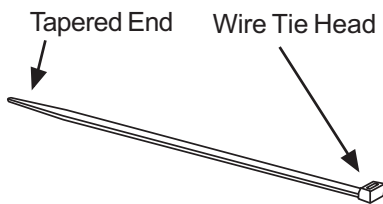
LOCKING CONNECTORS

When locking connectors, listen for a click, indicating they are securely locked.

Example:

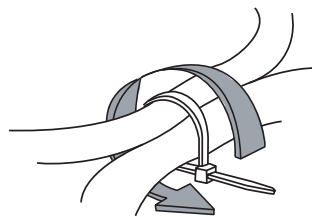


WIRE TIE PROCEDURE

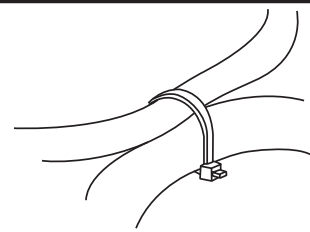


Wrap wire tie around the harness you wish to secure together.

Insert the Tapered End of the wire tie into the Wire Tie Head.

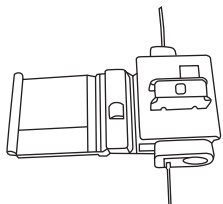


Pull the Tapered End through the Wire Tie Head until the wire tie is snug.

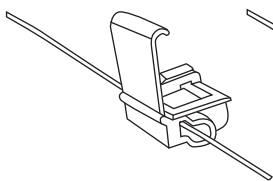


Trim wire tie end after tightening.

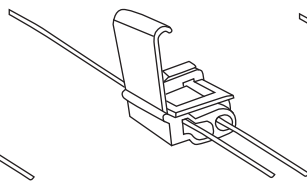
IDC WIRE TAP PROCEDURE



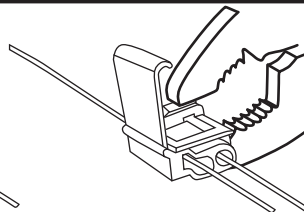
Place IDC on Vehicle Wire.



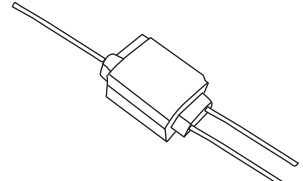
Close side of IDC.



Insert EC Mirror Harness wire into IDC.



Crimp IDC metal tab over both wires until flush with top of IDC.



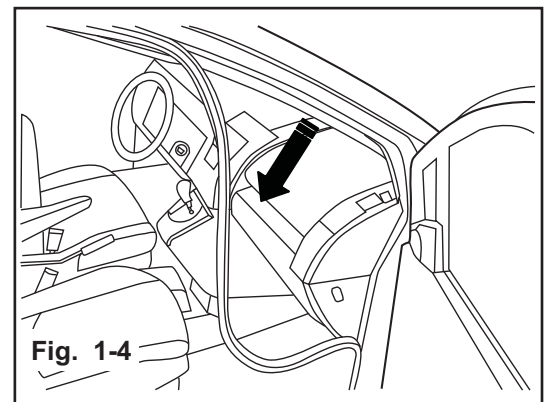
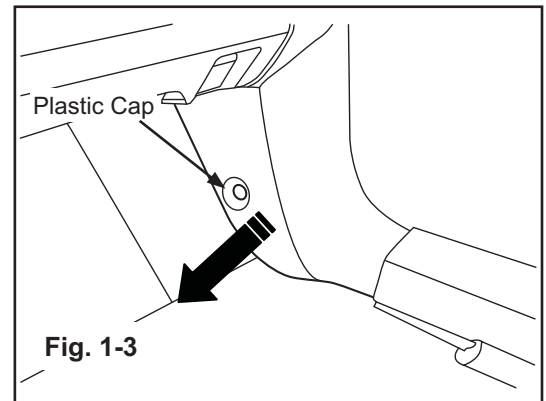
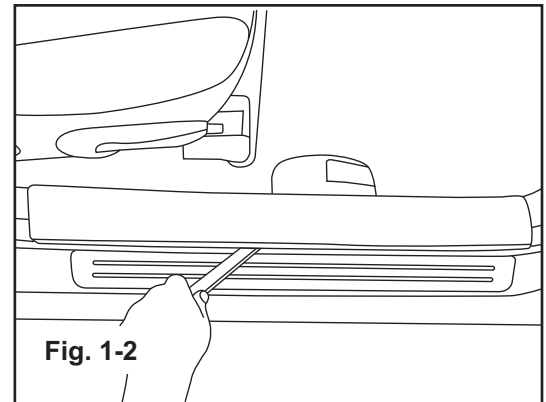
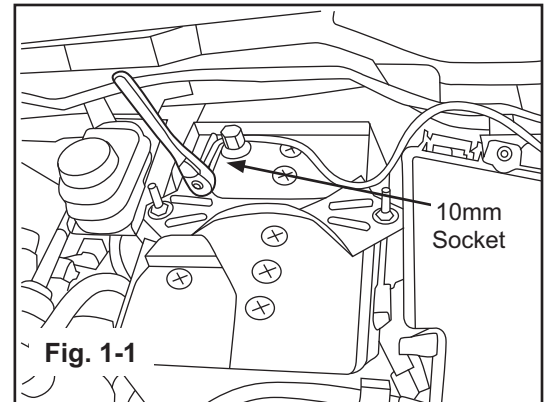
Close top of IDC.

INSTALLATION PRECAUTIONS / NOTES:

- If using fish wire, use caution to avoid damage to existing components.
- Do not place wire harness against objects with sharp edges that may cause electrical shorting.
- Verify that power harness path will not interfere with brake, clutch, emergency brake or air bag operation. Use wire ties to hold the wiring away from critical locations.

1 Preparation

1. Place kit components on a clear, padded surface and inspect for damage, defects, or missing components.
2. Record customer's programmed Radio - AM/FM/SAT stations and trip computer (if applicable).
3. Disconnect negative battery terminal.
 - a) Remove relay cover and then remove battery cover in order to gain access to battery terminals.
 - b) Using 10mm socket, remove negative battery terminal. (Fig. 1-1)
4. Remove passenger-side scuff plate.
 - a) Use fiberstick to disengage clips. (Fig. 1-2)
5. Remove passenger-side kick plate.
 - a) Unscrew plastic cap.
 - b) Grasp kick plate at rear and pull out towards driver-side of vehicle. (Fig. 1-3)
6. Remove passenger-side door seal.
 - a) Pull back past top of A-pillar trim. (Fig. 1-4)



7. Remove passenger-side A-pillar trim.

NOTE

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

- Pull out the top portion of A-pillar trim towards driver-side of vehicle until A-pillar push-pin clip is extended approximately ½”.
- Grasp A-pillar trim with both hands and slide upwards, to slide off from A-pillar push-pin clip. (Fig. 1-5)
- After A-pillar trim is detached from push-pin clip, pull firmly to detach lower clips.

NOTE

A-pillar clip will remain attached to vehicle body.

- Rotate the extended portion of the A-pillar push-pin clip, 45 degrees and remove pin from grommet, in body of vehicle. (Fig. 1-6)

- Insert flat screwdriver between the body and the grommet. (Fig. 1-7)
- Press the tabs and remove the grommet.

- Install new supplied push-pin clip in A-pillar trim until securely fastened. (Fig. 1-8)

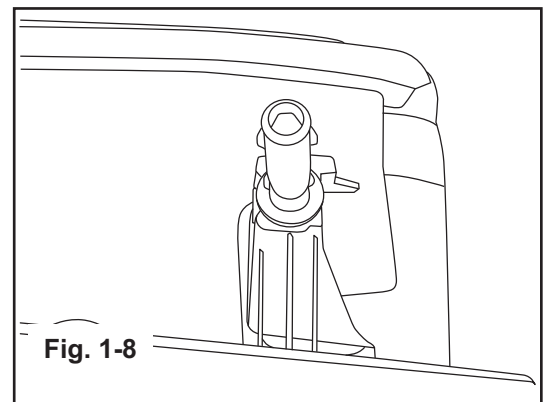
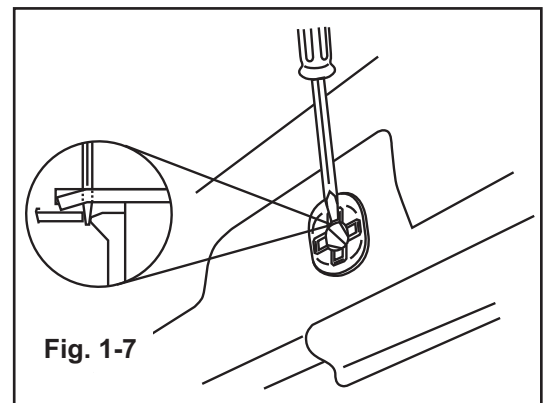
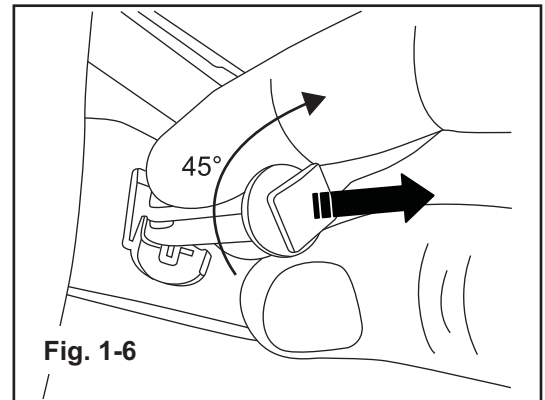
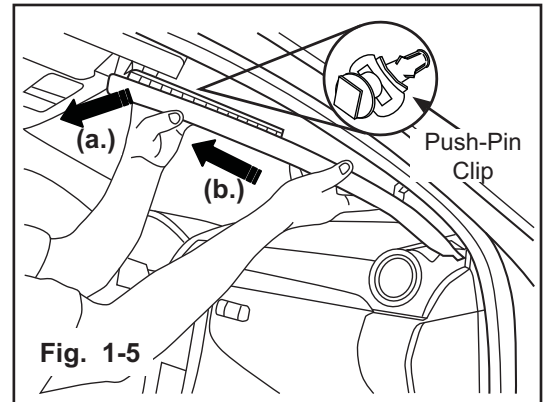
- Install new supplied grommet into the body of vehicle.

NOTE

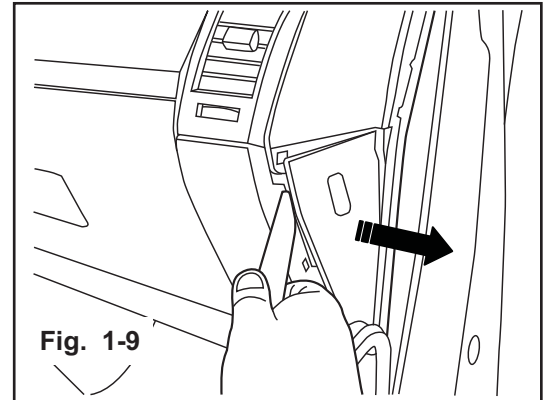
A-pillar push-pin clip and grommet must be replaced with supplied components (Items 12 & 13).

NOTE

If damage occurs to A-pillar push-pin connector or grommet (Part Numbers: GJ6A-68-162 & GJ6A-68-155A) replacement is required.

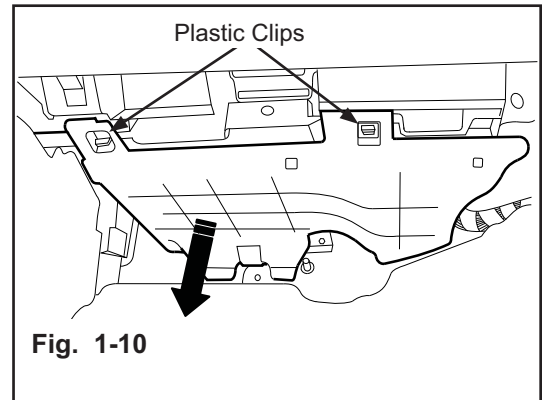


8. Using fiberstick, remove fuse box cover. (Fig. 1-9)



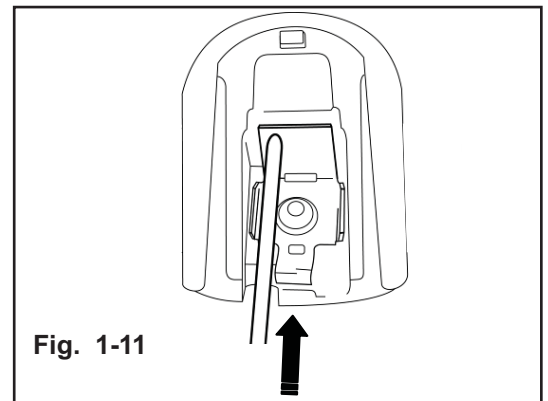
9. Remove passenger-side under-dash cover. (Fig. 1-10)

- a) Depress plastic clips at front edge of cover.
- b) Lower front edge of cover and remove.

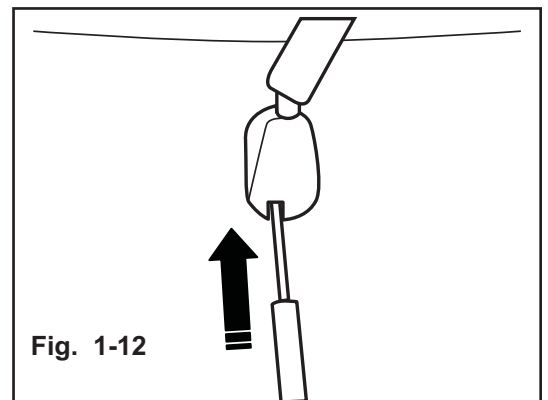


10. Remove OE Mirror.

- a) Push on locking tab while performing the next step. Tab is not visible while mirror is in place and is part of the mirror mount. (Fig. 1-11)



- b) Insert 4mm screwdriver into notch at bottom of mirror mount and slide upward between windshield mounting button and mirror mount. (Fig. 1-12)
- c) Grasp mirror mount at the tube, and gently pull upwards parallel to the windshield to carefully slide mirror off windshield button.



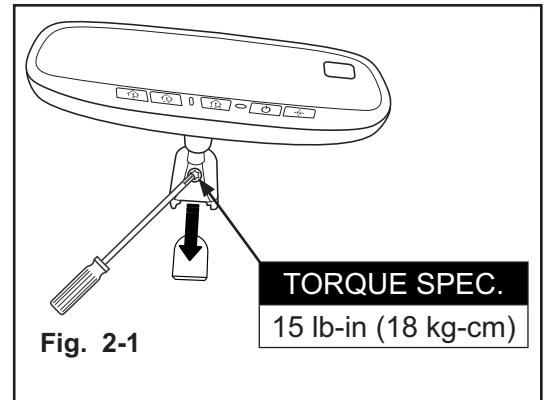
CAUTION

! DO NOT rotate mirror, turn mirror side to side, or pull mirror away from the windshield. Rotation, side to side movement, or pulling of mirror on windshield button could damage or break the windshield and button, requiring windshield replacement.

2 EC Mirror Installation

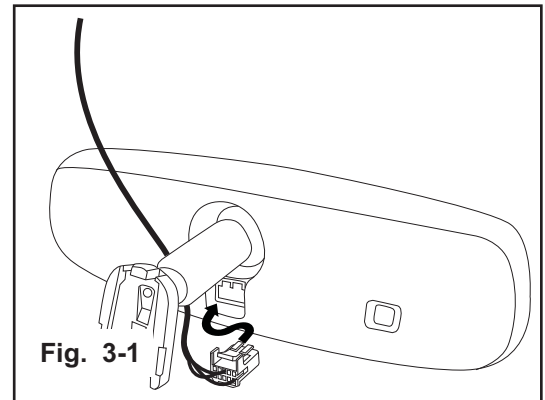
1. Attach EC mirror.

- Hold the mirror head and slide the mount downwards as far as possible over the windshield button, until fully seated. (Fig. 2-1)
- Using a #T20 Torx, tighten the mirror mounting bracket screw to 15 lb-in.



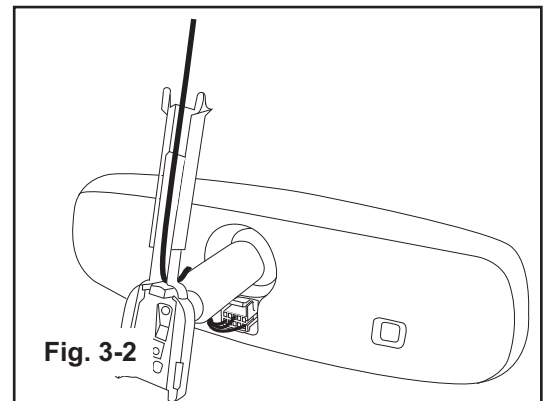
3 Route EC Harness to Vehicle Power

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



2. Route EC harness from mirror to headliner.

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

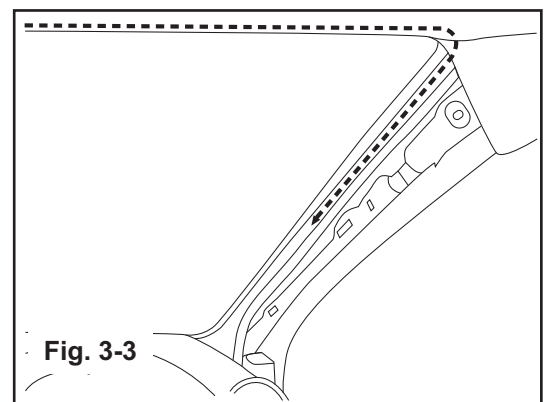


NOTE

! Use **SHORT WIRE COVER** for this application.

3. Route EC harness to passenger-side A-pillar.

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



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

- a) Route EC harness down A-pillar and secure to OE harness with (4) wire ties, as shown. (Fig. 3-4)
- b) See Wire Tie Procedure on Page 2 for detailed instructions and images of proper wire tie installation techniques.

CAUTION

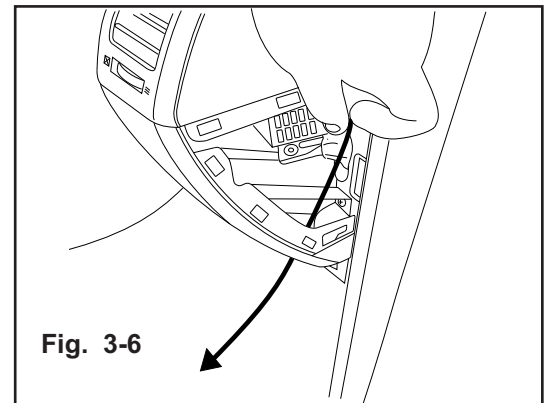
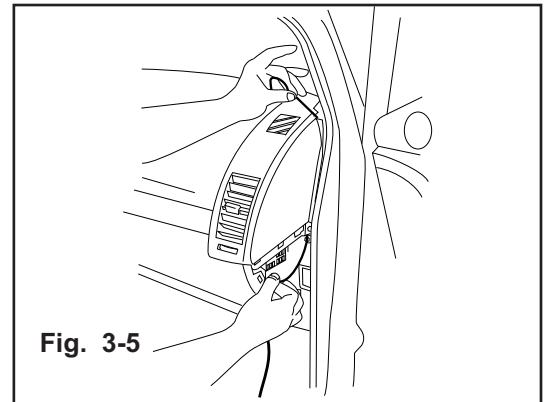
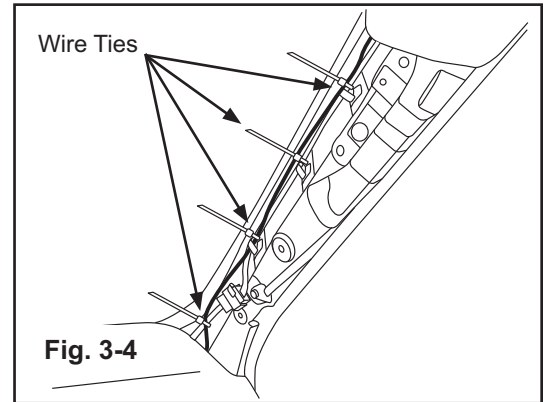
! Verify EC harness path is clear of air bag (if equipped).

CAUTION

! Do NOT secure EC harness to plastic drain tube.

5. Route EC harness through dash towards foot-well area.

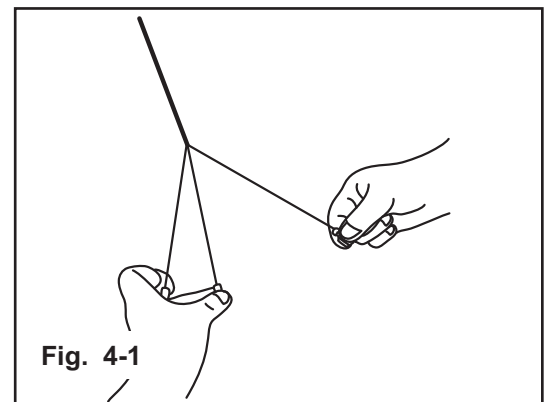
- a) Route EC harness through passenger-side outer dash panel and into fuse-box area. (Fig. 3-5)
- b) Route EC harness from fuse-box area into passenger-side foot well area. (Fig. 3-6)



4 Connect EC Harness Power and Ground

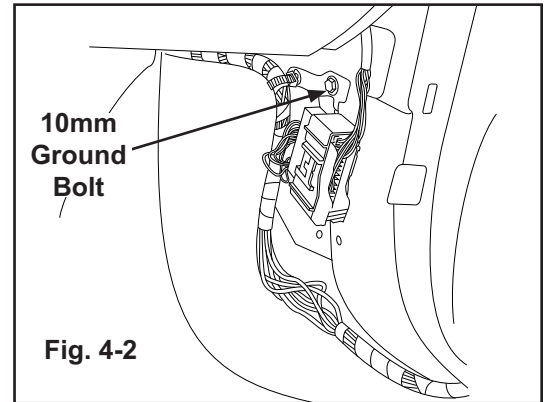
1. Separate EC harness power and ground wires.

- a) Pull power and ground wires apart approximately 16 inches. (Fig. 4-1)

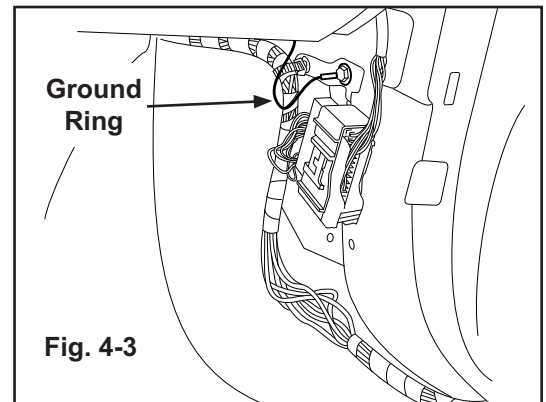


2. Connect EC harness to ground.

- a) Locate 10mm ground bolt in passenger-side foot well area, as shown. (Fig. 4-2)

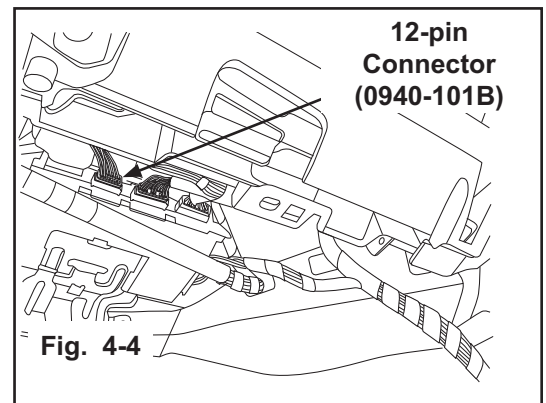


- b) Remove bolt and place ground ring of EC harness over bolt. Install bolt into ground nut on vehicle, ensure that OE ground rings are still properly installed on ground bolt. (Fig. 4-3)
- c) Tighten bolt to 90 lb-in.

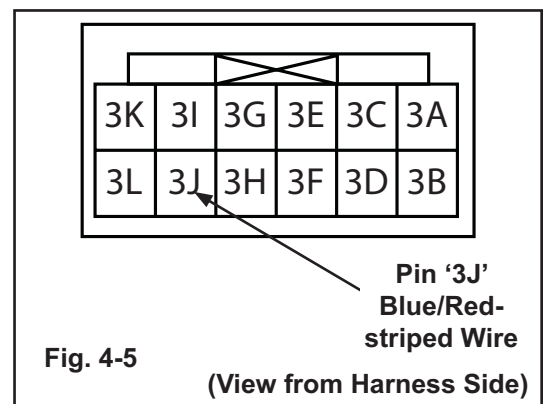


3. Attach wire tap connector to +12V constant battery.

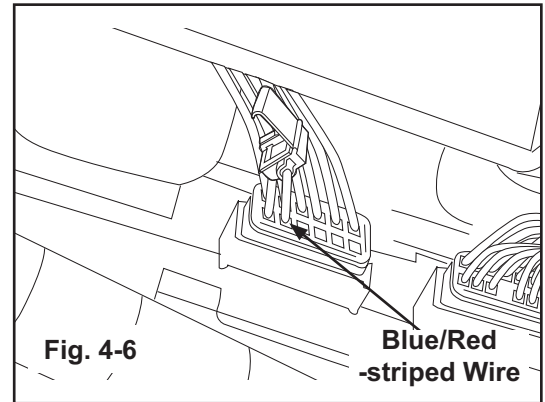
- a) Locate the 12-pin connector (0940-101B), on left side of the rearward most facing side of the BCM, located under the passenger-side dash. (Fig. 4-4)
- b) Carefully trim back tape on OE harness to allow room for tapping the wires.



- c) Locate the **Blue/Red-stripped wire** in pin '3J,' of the 12-pin connector. (Fig. 4-5)

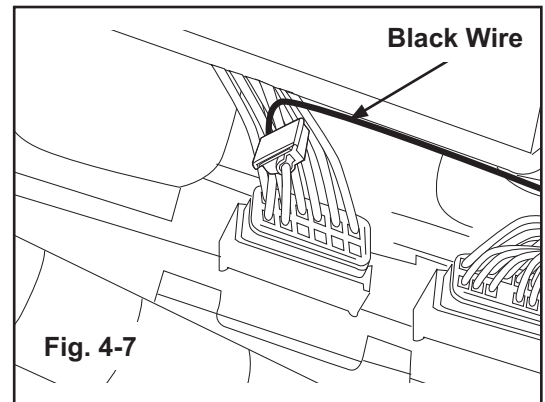


- d) Attach IDC connector to **Blue/Red-striped wire** in pin '3J,' of the 12-pin connector. (Fig. 4-6)
- e) See **IDC Wire Tap Procedure on Page 2** for detailed instructions and images of proper wire tap installation techniques.



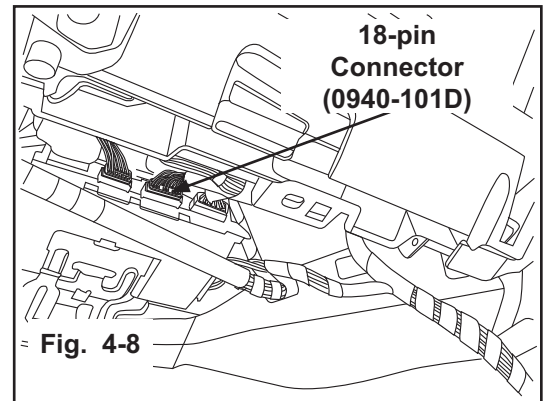
4. Connect EC harness to +12V constant battery.

- a) Insert end of **Black wire** of the EC harness into opening of IDC connector on the **Blue/Red-striped wire**. (Fig. 4-7)
- b) Using Pliers, crimp IDC tab and then close plastic top. (See **IDC Wire Tap Procedure on Page 2**)

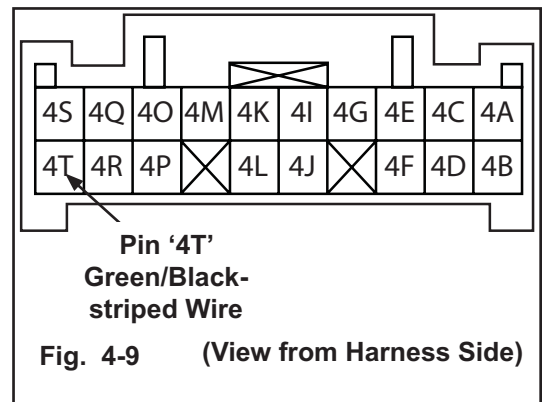


5. Attach wire tap connector to +12V ignition.

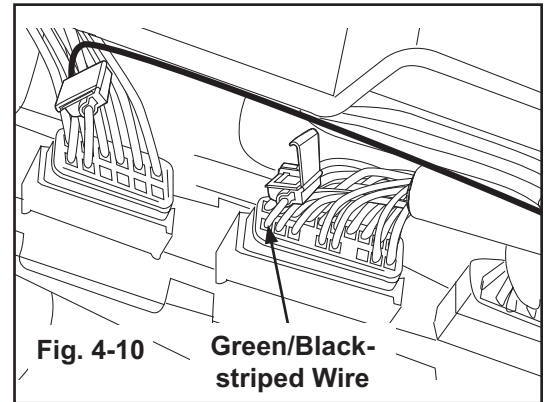
- a) Locate the 18-pin connector (0940-101D), on center of the rearward most facing side of the BCM, located under the passenger-side dash. (Fig. 4-8)
- b) Carefully trim back tape on OE harness to allow room for tapping the wires.



- c) Locate the **Green/Black-striped wire** in pin '4T,' of the 18-pin connector. (Fig. 4-9)

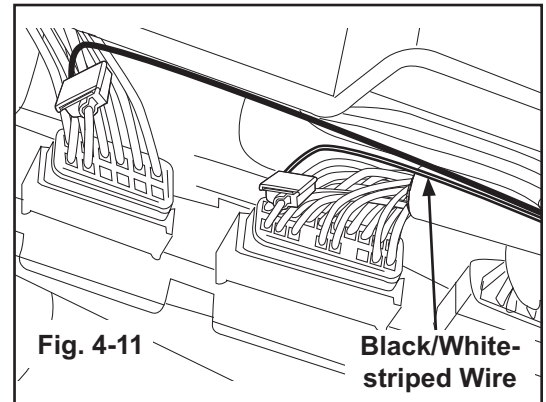


- d) Attach IDC connector to **Green/Black-striped wire** in pin '4T,' of the 18-pin connector. (Fig. 4-10)
- e) See **IDC Wire Tap Procedure on Page 2** for detailed instructions and images of proper wire tap installation techniques.



6. Connect EC harness to +12V ignition.

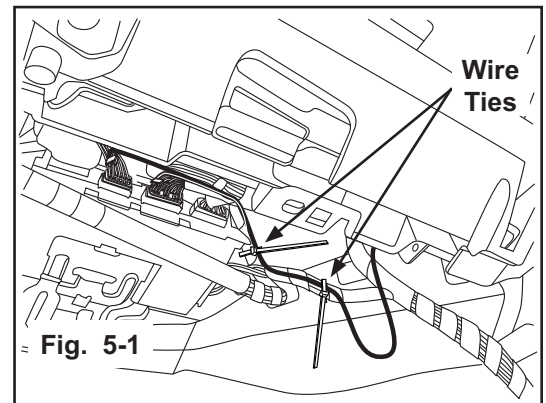
- a) Insert end of **Black/White-striped wire** of the EC harness into opening of IDC connector on the **Green/Black-striped wire**. (Fig. 4-11)
- b) Using Pliers, crimp IDC tab and then close plastic top. (See **IDC Wire Tap Procedure on Page 2**)



5 Secure Remaining EC Harness Wires

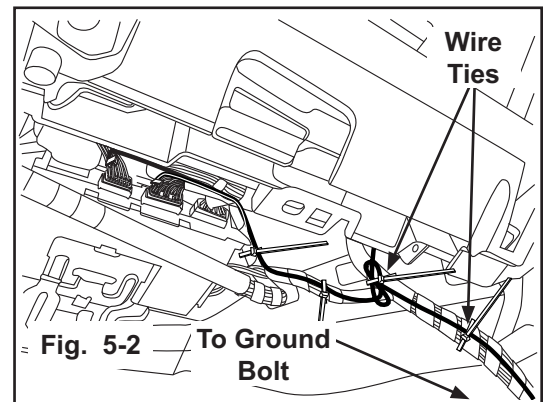
1. Wrap Wire Tie Around EC harness and OE harness

- a) Secure EC harness to OE harness from 18-pin connector and other adjacent connectors using (2) wire ties. (Fig. 5-1)
- b) See **Wire Tie Procedure on Page 2** for detailed instructions and images of proper wire tie installation techniques.



2. Bundle excess EC harness wires.

- a) Continue routing harness up through the dash. Secure EC harness from Ground Bolt to OE Harness with (1) wire tie. (Fig. 5-2)
- b) Bundle excess EC harness wires with (1) wire tie. (Fig. 5-2)
- c) See **Wire Tie Procedure on Page 2** for detailed instructions and images of proper wire tie installation techniques.



6 Testing

1. Reconnect negative battery cable.
2. Turn the ignition switch to ON.
3. With the vehicle in a fairly well-lit area, perform the following:
 - a) Verify the shift light on the bottom of the mirror is on and orange.
 - b) Verify button images are lit with orange back-lighting.
 - c) To make sure the auto-dimming feature is on, verify that the green LED to the left of the center button is on. If it is not on, push the "☰" button to turn the green LED on.
 - d) Cover the forward looking photocell on the back of the mirror with a dark cloth or towel. (Fig. 6-1)
 - e) In a few seconds, the mirror will begin to darken.

NOTE

! Time to darken will vary with ambient light level.

- f) Remove the cover from the forward looking photocell and the mirror will begin to clear.
- g) 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. Turn the ignition key to the OFF position.

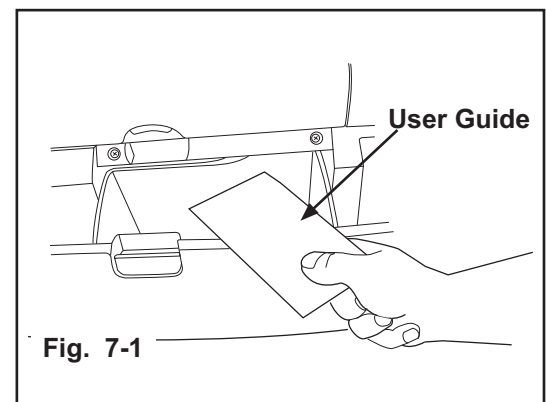
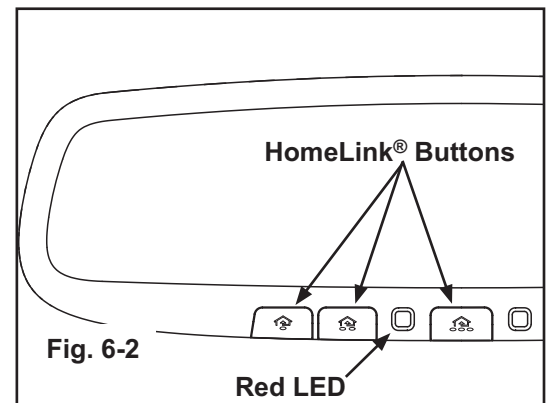
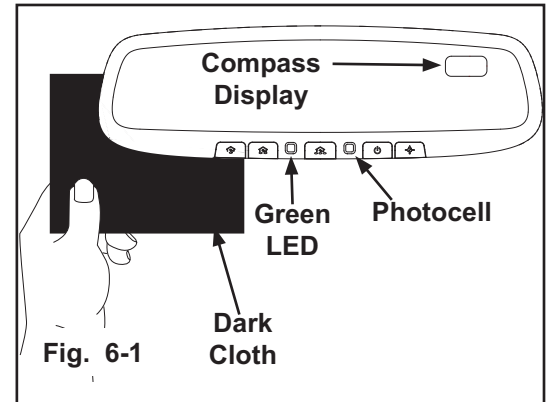
NOTE

! If compass remains on, refer to pages 8-10 and recheck proper wiring installation.

5. Push each HomeLink® button, one at a time, and verify that the LED indicator to the left of the center button illuminates red. (Fig. 6-2)
6. Testing is now complete.

7 Installation of Removed Components

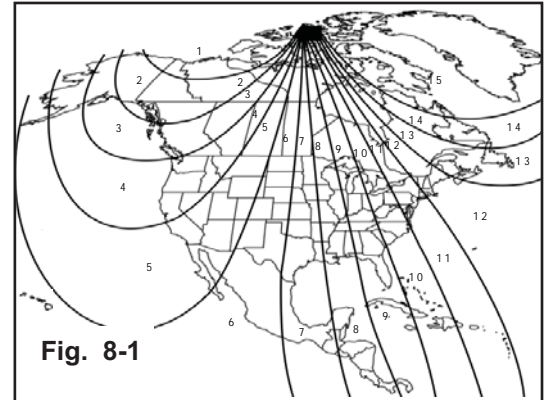
1. Trim excess off all tie wraps.
2. Reinstall in reverse order, all trim pieces removed during installation.
3. Place User Guide in vehicle glove-box. (Fig. 7-1)
4. Remove fingerprints, smudges, etc. from mirror.
5. Verify each reinstalled component for proper fit and function.



8 Compass Zone Adjustment (Dealer Install ONLY)

6. 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 the correct compass zone setting for your geographical location. Same map is in User Guide as well.
- b) To change the zone setting, push and hold the right, compass display button until a number appears in the display. Press button repeatedly until desired compass zone number is reached.



9 Compass Calibration (Dealer Install ONLY)

7. Calibrate compass.

- a) Drive to an open, level area, away from large metallic objects or structures.
- b) Hold the right, compass display button for approximately 9 seconds, until "C" test 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	Inspection Items (O)			
	Clearance / Fit	Scratches / Dirt / Harness Interference	Installation / Tightening / Engagement	Operation Check
Negative battery terminal			O	
Passenger-side Scuff Plate	O	O	O	
Passenger-side Kick Plate	O	O	O	
Passenger-side Door Seal	O	O	O	
Passenger-side A-pillar Trim	O	O	O	
Fuse Box Cover	O	O	O	
Under Dash Trim	O	O	O	
EC mirror torx screw			*1 O	
EC harness connector			O	
EC mirror features:				
- auto-dimming				*2 O
- compass display				*3 O
- HomeLink®				*4 O
User guide			*5 O	

O : Applicable

*1: Tightened to 15 lb-in (18 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 (test with key in the OFF position).

*5: In vehicle glove-box.

CAUTION



When the battery is disconnected, the DSC may 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/DCS 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 may no longer fully open or fully close automatically.

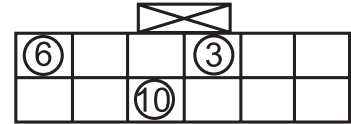
Carry out the following operation at driver seat first and passenger seat to restore normal operation:

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.

BASIC INSTALLATION TROUBLE-SHOOTING

Verify the following:

1. B+ harness wire (pin 10) is receiving +12V with ignition OFF and ON.
2. Switched harness wire (pin 6) is receiving +12V with ignition ON and 0V with ignition OFF.
3. Ground wire is securely attached.
4. EC harness is fully inserted into mirror.
5. EC harness is not pinched, cut or damaged.
6. Ensure IDC connectors are properly installed. Check to see that the blade in the connector did not miss either wire.



PIN	FUNCTION	NOTE
1		
2		
3	GROUND	
4		
5		
6	+12 VDC SWITCHED	IGNITION
7		
8		
9		
10	+12 VDC	BATTERY

