

**Part Number: PT374-33020**

Section I - Installation Preparation

**Kit Contents**

Item #	Quantity Req'd.	Description
1	1	AD Mirror Assembly w/Compass
2	1	Hardware Bag
3	1	Installation Instructions

**Hardware Bag Contents**

Item #	Quantity Req'd.	Description
1	1	T-tap connector: Red 3M
2	1	Wire Cover
3	1	EC Mirror Wire Harness
4	6	Foam Tape
5	10	Wire Ties
6	1	Operation Instruction Card
7	1	10 mm Hex Head Bolt

**Additional Items Required For Installation**

Item #	Quantity Req'd.	Description
1		

**Conflicts**

Note: XLE
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**Recommended Tools**

<b>Safety Tools</b>	
Vehicle Protection	Blankets
<b>Special Tools</b>	
None	
<b>Installation Tools</b>	
Screwdriver	Phillips #2
Screwdriver	Flat Blade, 4 mm max.
Ratchet	
Socket	10 mm
Torx Head Driver	T20
Dark Towel or Cloth	For Testing
Torque Wrench (2)	0-30 lbf.-in., 0-10 lbf.-ft.
Needle Nose Pliers	
Nylon Panel Removal Tool	e.g. Panel Pry Tool #1 Toyota SST # 00002-06001-01
Slotted Nylon Removal Tool	*See Note below.
Side Cutters	

\*NOTE: A suitable tool can be obtained from:-

**Plastic Factory**

(310) 532-8850

<b>Special Chemicals</b>	
Cleaner	3M™ Prep Solvent-70, or Household Windex

**General Applicability**






LE, SE
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**Recommended Sequence of Application**

Item #	Accessory	
1	VIP	V3
2	EC Mirror	N1
3		

\*Mandatory

**Legend**

	<b>STOP:</b> Damage to the vehicle may occur. Do not proceed until process has been complied with.
	<b>OPERATOR SAFETY:</b> Use caution to avoid risk of injury.
	<b>CRITICAL PROCESS:</b> Proceed with caution to ensure a quality installation.
	<b>GENERAL PROCESS:</b> This highlights specific processes to ensure a quality installation.
	<b>TOOLS &amp; EQUIPMENT:</b> Calls out the specific tools and equipment recommended for this process.

Section II - Installation Procedure

**A. Remove Overhead Console.**

1. Remove the negative battery cable. (Fig. A-1)



- i. Protect fender before starting.



- ii. Be careful to not touch the positive battery terminal.



- iii. Wait two (2) minutes before removing "A" pillar trim. Vehicle may have side air bag curtain.



2. Using a nylon removal tool, insert tool at front edge of overhead console bezel and carefully pry down. (Fig. A-2)



- i. Protect floor and seats before starting
- ii. With hands, carefully pull down the front edge of console bezel to release the two clips holding the console.



3. Slide the overhead console bezel forward to release the three support tabs from rear of bezel from the headliner area. (Fig. A-3)



4. Disconnect connector from the overhead console and carefully store on a clean, padded surface. (Fig. A-4)

**B. Sun Visor Removal.**

1. Remove sun visor and sun visor clips to release headliner.



2. Using a slotted nylon removal tool, rotate driver side sun visor clip 90° counterclockwise. (Fig. B-1)



- i. Carefully pull clip away from headliner taking care not to damage clip.

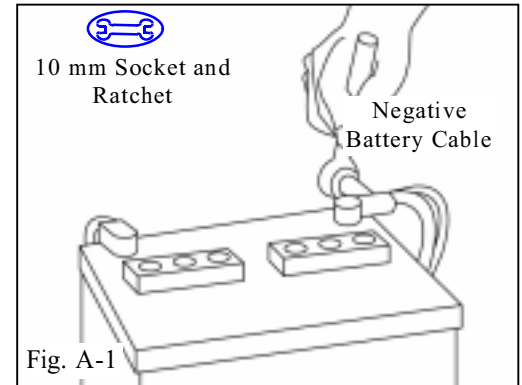


Fig. A-1

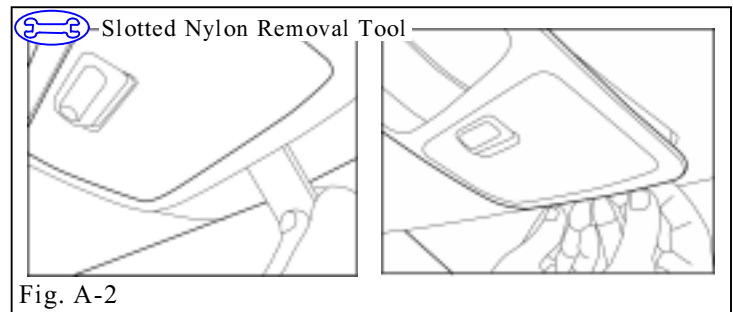


Fig. A-2

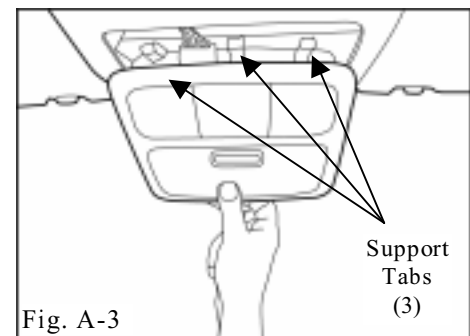


Fig. A-3

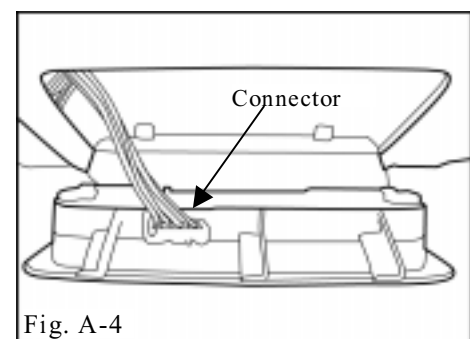


Fig. A-4

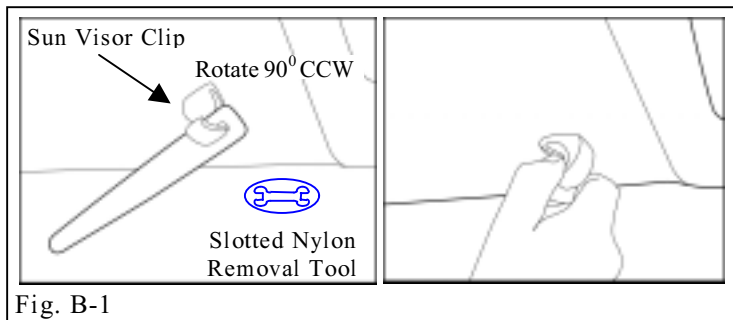


Fig. B-1

3. Remove plastic cover from sun visor mounting base to expose two (2) screws. (Fig. B-2)

4. Remove two (2) screws from sun visor mounting base. (Fig. B-3)



i. Disconnect vanity mirror light connector and carefully store sun visor components on a clean, padded surface.

### C. Vehicle Plastic Trim Component Removal.

1. Carefully remove driver's side scuff plate. (Fig. C-1)



i. Be careful not to scratch trim pieces.  
ii. Carefully remove driver's side cowl cover.

2. Carefully remove driver side assist-handle plastic covers. (Fig. C-2)

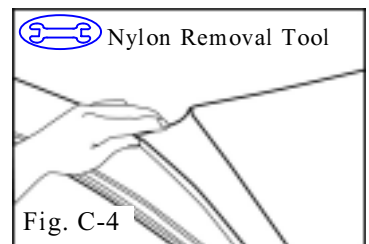
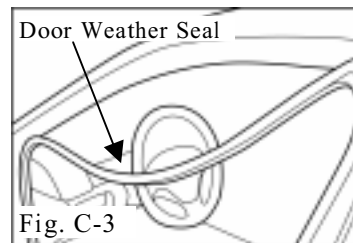
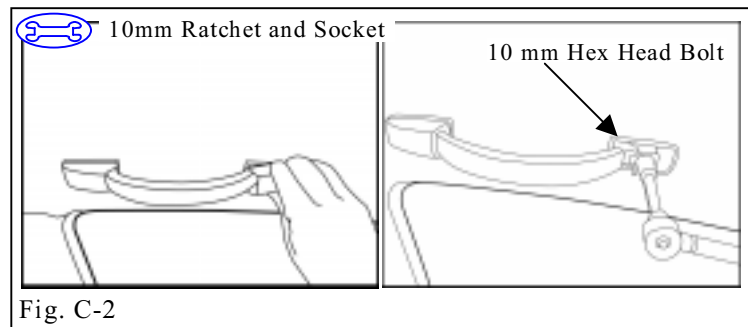
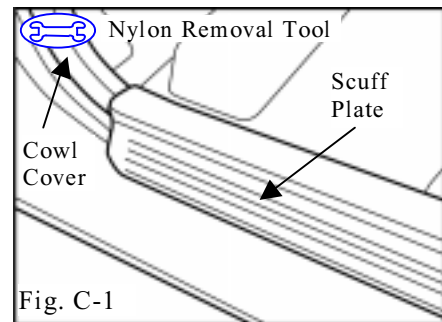
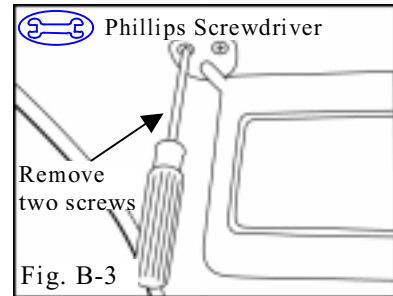
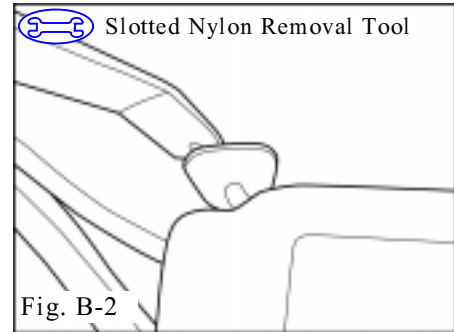
i. Remove the (2) 10mm hex head bolts.

3. Carefully pull down door seal to allow head liner to drop. (Fig. C-3)

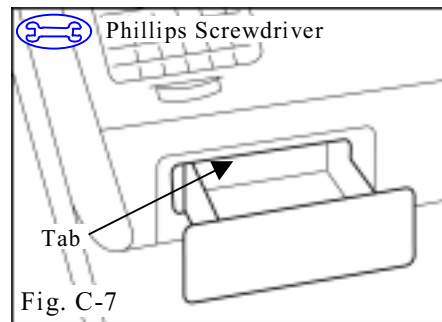
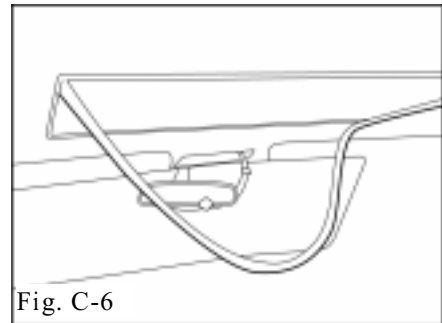
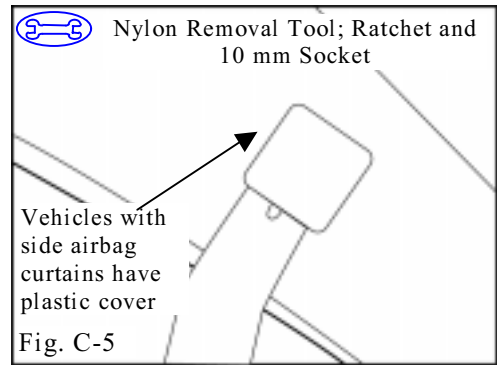
4. With a nylon removal tool, carefully pry away the top of A-pillar and remove. (Fig. C-4)



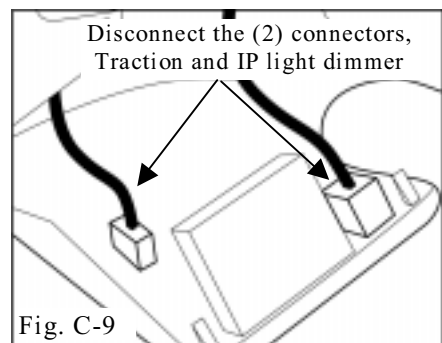
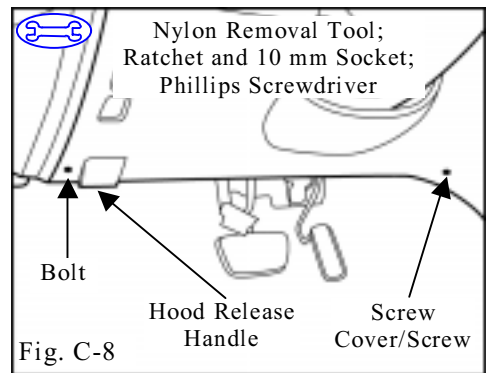
i. Be careful not to scratch pillar.  
ii. Store all parts on a clean padded surface.



5. Vehicles with side air bag curtains, carefully lift up the plastic cover to expose the 10 mm hex head bolt. (Fig. C-5)
  - i. Be careful not to scratch pillar.
  - ii. Remove the 10mm hex head bolt.
  - iii. Remove A-pillar trim.
  - iv. Store all parts on a clean padded surface.



6. Sunroof models only. Carefully remove sunroof opening trim. (Fig. C-6)
  - i. Be sure hands are clean.
7. Remove coin holder. (Fig. C-7)
  - i. Remove coin box by pressing on tab and pulling box out.
  - ii. Remove the screw from behind coin box area.
8. Remove lower dash panel. (Fig. C-8)
  - i. Remove the hood release handle from the cable by unsnapping the cable.
  - ii. Open plastic cover over right side screw to expose screw.
  - iii. Remove screw from the lower right side of the dash panel.
  - iv. Remove one (1) 10 mm hex head bolt from the lower left area of the lower dash panel.
9. Carefully remove lower dash panel by pulling it rearwards then down towards the floor. (Fig. C-9)
  - i. Disconnect the two connectors on lower dash panel.
  - ii. Store lower dash panel on a clean padded surface.



## D. Original Equipment (OE) Mirror Removal.

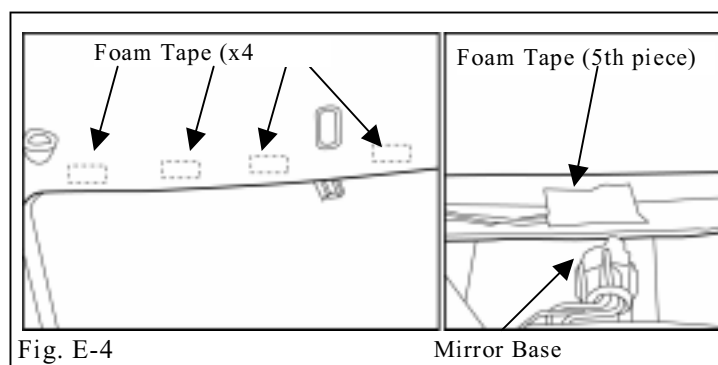
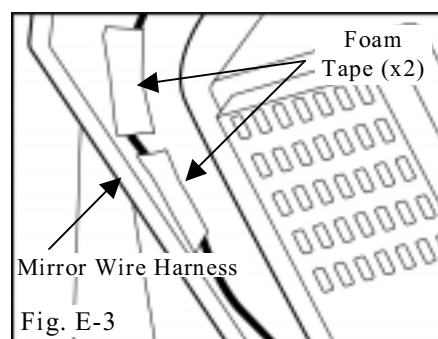
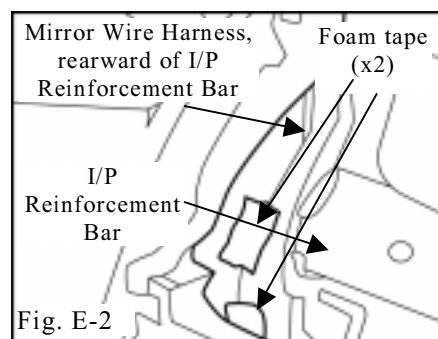
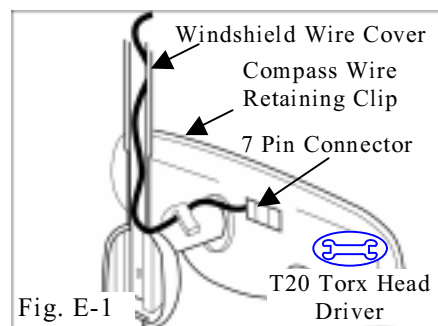
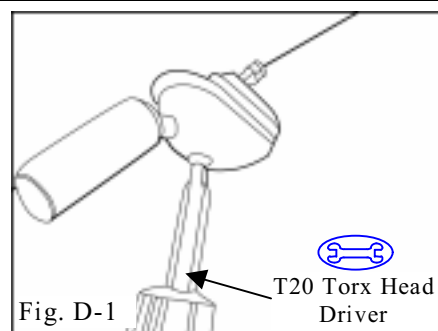
1. Using a T20 Torx head driver, remove the OE mirror. (D-1)
2. Discard the OE mirror.

## E. Mirror Installation.

1. Slide the electrochromic compass mirror onto the mounting button on the windshield.
- ⚠ 2. Tighten the screw on the mirror mounting bracket. Specified torque range is 15 lbf-in.
3. Plug the wire harness 7-pin connector into the back of the mirror. (Fig. E-1)
  - i. Route the mirror wire harness into the groove of the windshield wire cover.
  - ii. Attach the windshield wire cover to the mirror mounting bracket and secure wire harness with retaining clip as shown.
4. Slide the wire cover firmly under the headliner.
  - ⛔ i. Be careful not to bend headliner.
- ➡ 5. Route the mirror wire harness into the headliner and down the A-pillar - along side the OE wire harness.

**NOTE:** Wire harness must allow mirror to experience full range of movement (turn full left and full right) with tension relief.

- ➡ 6. Route harness rearward of instrument panel reinforcement bar as shown. (Fig E-2)
  - ➡ i. Secure mirror wire harness with two (2) pieces of foam tape.
7. Route mirror wire harness down from "A" pillar as shown. (Fig. E-3)
- ➡ 8. Apply foam tape to headliner (5 places) as shown. (Fig. E-4)



9. Loosely secure the mirror wire harness to the OE wire harness with four (4) wire ties along the A-pillar as shown. (Fig. E-5)



- i. Be sure to keep mirror wire harness away from side air bag curtain and wire tie OE harness.

10. Locate the gray flasher relay at the lower left side of cowl area. (Fig. E-6)

11. Locate the red - blue wire in the wire harness from the flasher relay. (Fig. E-7)

12. Apply the Red T-tap connector to the red - blue wire about one (1) inch from connector with pliers. (Fig. E-8)

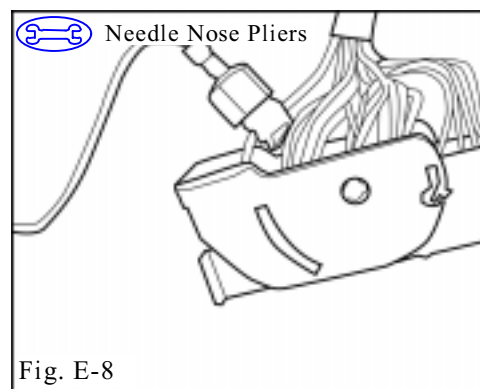
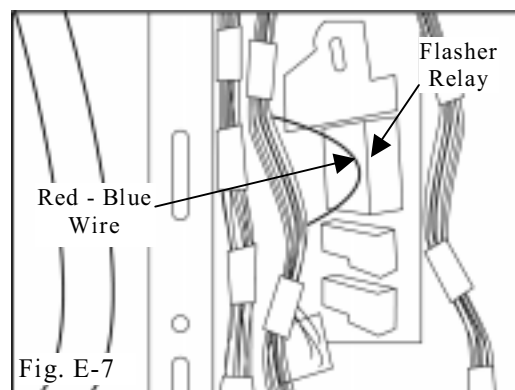
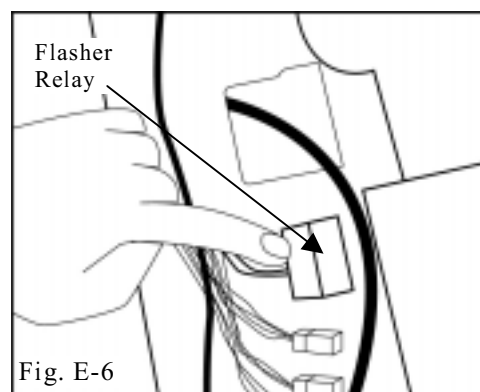
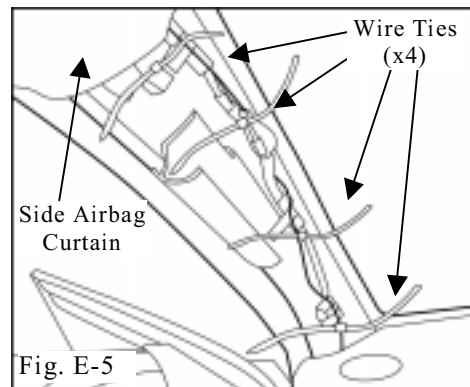


13. Make sure T-tap halves are snapped together and secure.

- i. Plug the red connector of the mirror wire harness into the T-tap.



- ii. Make sure the spade terminal is properly inserted in T-tap to make electrical contact.





14. Locate the unused weld nut at the lower cowl panel as shown. (Fig. E-9)

- i. Pull ground wire apart from ignition wire enough to allow connection to ground bolt.

➡ 15. Using a 10 mm socket and ratchet, attach the ground lug of the mirror wire harness with the provided 10mm hex head bolt to the weld nut.

➡ i. Make sure the bolt is secure.

➡ 16. Bundle excess mirror wire harness to the vehicle's main harness and secure excess with three (3) wire ties. (Fig E-10)

➡ 17. Tighten all wire ties and cut excess.

#### F. Testing.

1. Reconnect the negative battery cable. (Fig. F-1)



- i. Tighten the nut to 36 lbf-in.



- ii. Be careful not to touch the positive battery terminal.

2. Turn ignition switch to ON.

3. With the vehicle in a fairly well lit area, perform the following test of Auto Dimming Feature:

- i. To make sure the auto-dimming feature is on, verify that the green LED to the right of the switch is on. If it is not on, push the 'Mirror' button to turn it on. (Fig. F-2)
- ii. Cover (using dark cloth or towel) the forward-looking photocell located below the wire harness connection on the back of the mirror. (Fig. F-2)

➡ iii. After a few seconds, the mirror will begin to darken (the time may vary with ambient light levels).

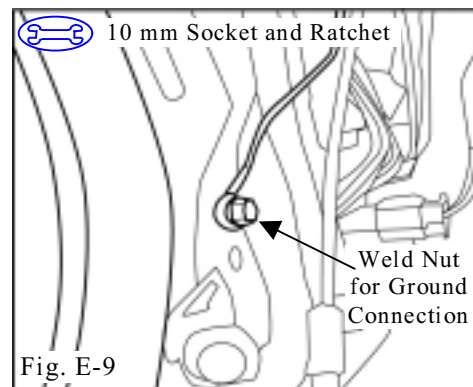


Fig. E-9

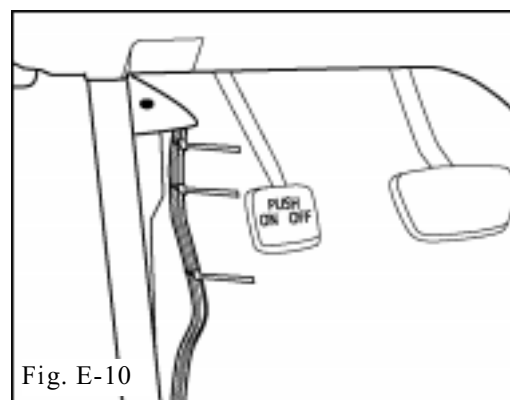


Fig. E-10

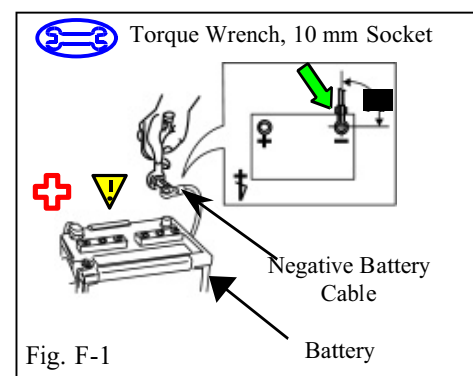


Fig. F-1

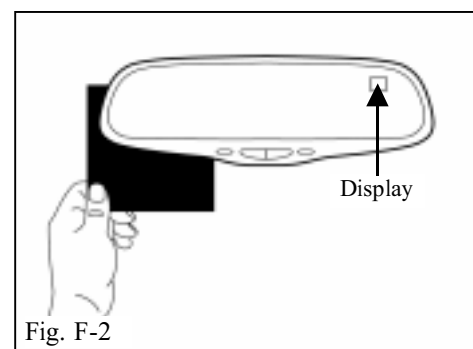








Fig. F-2

-  iv. Remove the cover from the forward photocell and the mirror will begin to clear.
- 4. Compass Feature:
  - i. Push in 'Comp' side of switch to turn compass on/off. Compass is enabled when a direction or a 'C' appears in the mirror display window.
-  5. For vehicles with side airbag curtains, disconnect battery, proceed with final assembly then reconnect negative battery cable with proper torque.

**G. Final Assembly.**

- 1. Reinstall sunroof opening trim (sunroof models only).
- 2. Reinstall lower dash panel, hood release handle and coin box.
- 3. Reinstall driver's side cowl cover.
- 4. Reinstall driver's side scuff plate.
- 5. Reinstall driver's side A-pillar garnish.
- 6. Reinstall sun visor, plastic cover and mounting base.
- 7. Reinstall driver side grab handle.
- 8. Reinstall sun visor clips.
- 9. Reinstall overhead console.
-  10. Place the operation instruction card in the vehicle glove box.
-  11. Remove fingerprints, smudges, dirt, etc. from mirror glass with 3M™ Prep Solvent-70 (or Household Windex.)
  -  i. When cleaning with 3M™ Prep Solvent-70 follow the manufacturer's directions. Do not allow cleaner to air dry.



-  12. Verify each reinstalled component for proper fit and function.



Section III - Functional Verifications

Check:

Accessory Function Checks

**Vehicle should be in a fairly well lit area.**

- ☐ Turn the ignition switch to ON.

**Auto-dimming feature:**

- ☐ Cover the forward-looking photo cell (located below the wire harness connection on the back of the mirror.)


**Mirror Clears:**

- ☐ Remove cover from the photocell.

**Compass feature:**

- ☐ Push in 'Comp' side of switch.
- ☐ Push the 'Mirror' switch a second time and hold for 3 seconds.

Look For:

Verify green LED, to the right of the switch, is on. If it is not on, push the  button to turn it on.

Verify mirror darkens.

Mirror returns to clear state.

Verify vehicle's directional heading is displayed.

Verify the visual display turns off.

Vehicle Function Checks

- ☐ Map lamps/Dome lamp with door closed.
- ☐ Sunroof - open/close switch
- ☐ Hood Release
- ☐ Traction light
- ☐ Instrument Panel Light Dimmer

Map lamps should turn off.

Sunroof opens and closes.

Verify that hood latch releases.

Verify traction light turns on/off.

Verify IP lights dim.