

**Part Number: PT374-02030**

Section I – Installation Preparation

**Kit Contents**

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

**Hardware Bag Contents**

Item #	Quantity Req'd.	Description
1	3	T-tap Connectors: Red 3M
2	1	Wire Cover
3	1	EC Wire Harness
4	6	Foam Tape
5	10	Wire Ties, small
6	1	Operation Instruction Card

**Additional Items Required For Installation**

Item #	Quantity Req'd.	Description
1		

**Conflicts**

Note: Corolla LE with factory leather package (LP)
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**Recommended Tools**

<b>Safety Tools</b>	
Vehicle Protection	Blankets, Towels
<b>Special Tools</b>	
Slotted Nylon Removal Tool	CAD-E IADS P/N: CAM02-031-01
<b>Installation Tools</b>	
Phillips Screwdriver	#2
Ratchet	
Socket	10 mm
Torx Head Driver	T20
Needle Nose Pliers	
Torque Wrench (2)	0-3.5 N•m (0-30 lbf•in) and 0-14 N•m (0-10 lbf•ft)
Nylon Panel Removal Tool	e.g. Panel Pry Tool #1 Toyota SST # 00002-06001-01
Blade Screwdriver	4 mm max.
Scissors	
Side Cutters	
Dark Towel or Cloth	For Testing
<b>Special Chemicals</b>	
Cleaner	3M™ Prep Solvent-70, or Household Windex

**General Applicability**






Note:- All Corolla except LE with factory leather (LP)
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**Recommended Sequence of Application**

Item #	Accessory	
1	TVIP	V3 or V5
2	Audio	
3	EC Mirror	N1

\*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. These points will be audited on a completed vehicle installation.
	<b>GENERAL PROCESS:</b> This highlights specific processes to ensure a quality installation. These points will be audited during the accessory installation.
	<b>TOOLS &amp; EQUIPMENT:</b> Calls out the specific tools and equipment recommended for this process.

## A. Vehicle Disassembly

1. Remove the negative battery cable. (Fig. A1)



- i. Protect fender before starting.



- ii. Do not touch the positive terminal with any tool when removing cable.

2. Remove OE mirror and discard. (Fig. A2)

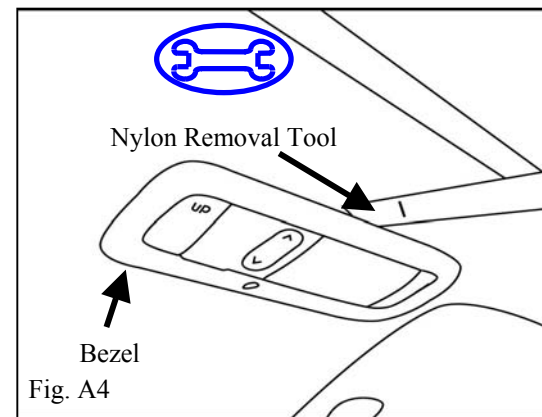
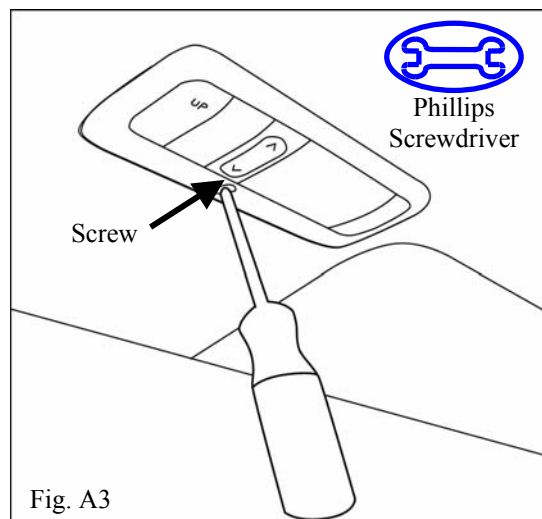
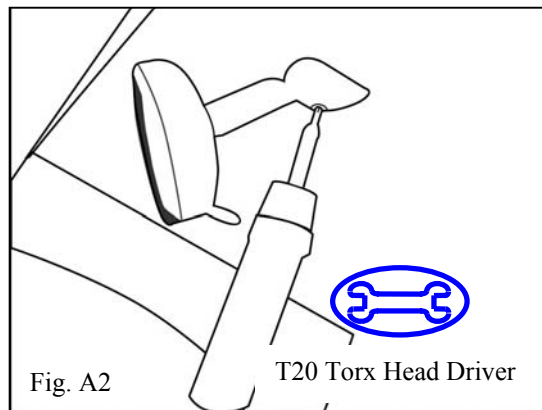
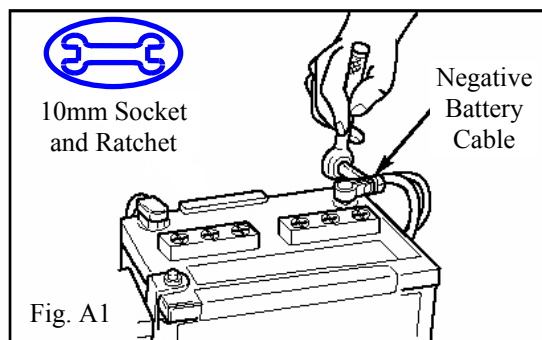


- i. If vehicle has a factory maplight mirror – disconnect the maplight plug from rear of mirror first.


3. **For sunroof models only.** Remove the screw from the overhead dome light assembly bezel. (Fig. A3)


4. **For sunroof models only.** With a nylon removal tool (NRT), carefully remove the bezel from the overhead dome light assembly. (Fig. A4)


- i. Store bezel on clean, protected surface.




5. **For sunroof models only.** Remove screw from dome light assembly. (Fig. A5)
6. **For sunroof models only.** Carefully pull down the dome light assembly to expose the white connector. (Fig. A6)
  - i. Disconnect the connector and store the dome light assembly on a clean, protected surface. Do not pull on wires when disconnecting.

-  7. **For sunroof models only.** Use NRT to remove the two (2) plastic covers on driver side grab handle from the driver side sun visor base.

-  8. **For sunroof models only.** With a 10mm socket, remove the 10mm hex head screws and store grab handle.

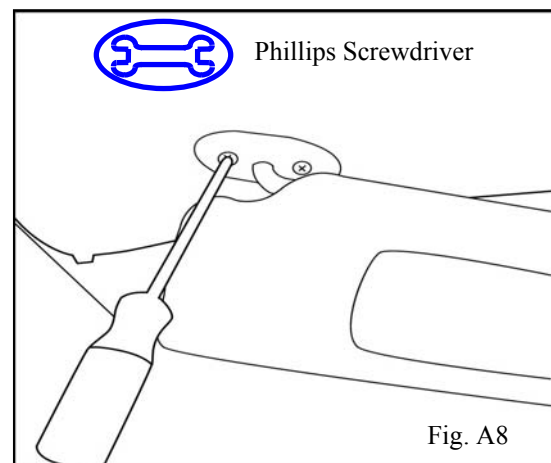
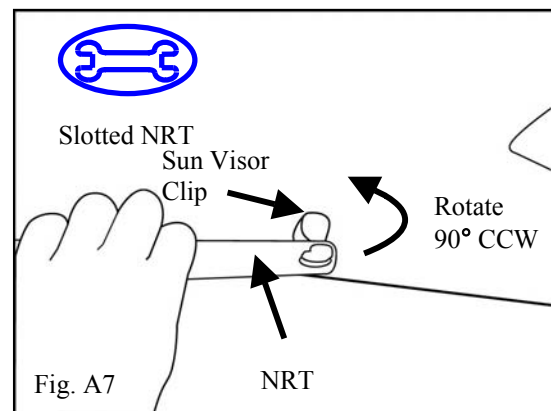
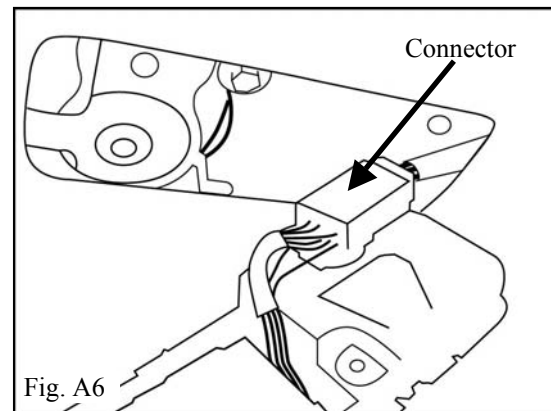
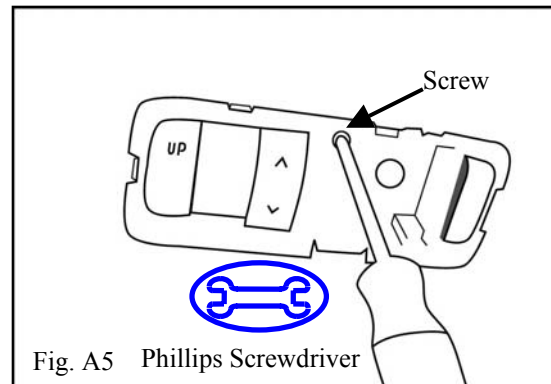
-  9. Using a slotted NRT, loosen both driver and passenger side sun visor clips by rotating clips 90 degrees counter clockwise. (Fig. A7)

- i. Carefully pull clip with headliner down, taking care not to damage clip. It is not necessary to remove clip from the headliner.

-  ii. Rotating clip clockwise or more than 90° will cause damage to clip when trying to remove it.

10. Remove two (2) screws from the driver side sun visor base. (Fig. A8)

- i. Remove sun visor and store on clean, protected surface.



11. Carefully insert the NRT at top of driver side “A” Pillar trim. (Fig. A9)

i. Pry loose top portion of trim and carefully remove trim and store.

ii. Store on clean, protected surface.

➡ 12. Partially remove the door weather seal as shown. (Fig. A10)

➡ 13. **For sunroof models only.** Partially remove sunroof-opening seal as shown. (Fig. A10)

14. With NRT, insert tool at the left portion of the mirror control trim bezel. (Fig. A11)

i. Carefully pry bezel out and disengage the four (4) clips.

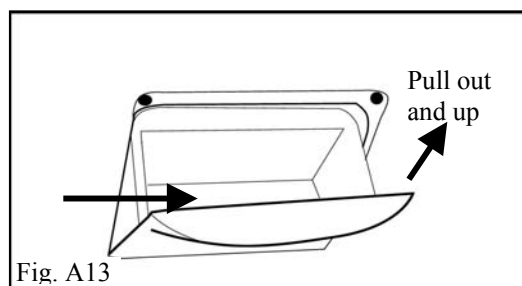
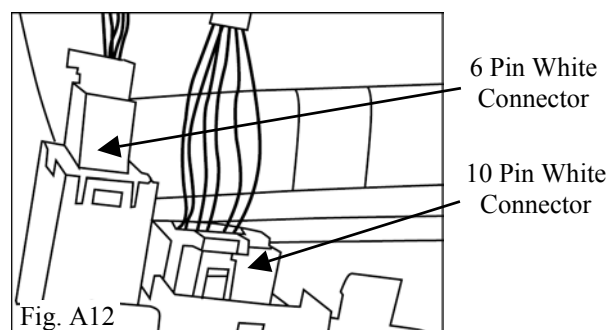
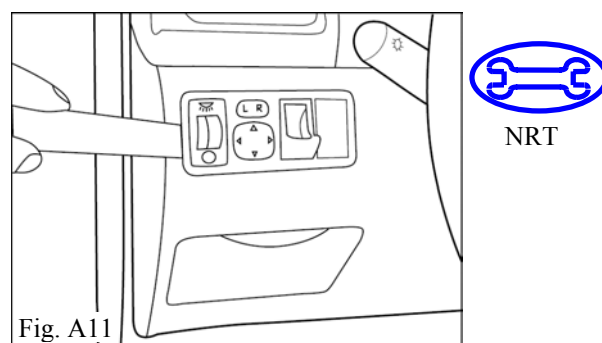
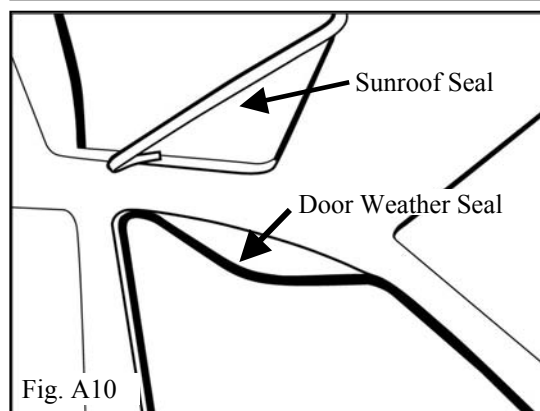
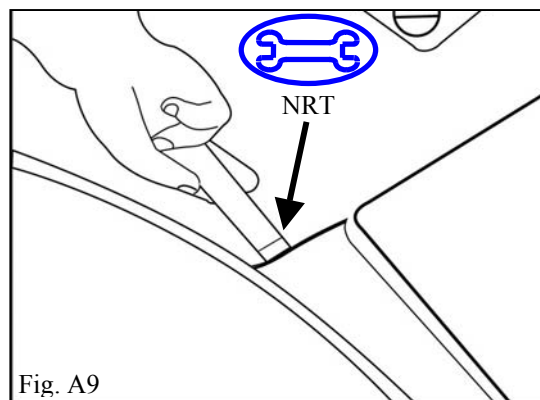
15. Pull the side view mirror control assembly out to expose the two white connectors. (Fig. A12)

➡ i. Disconnect the white connectors and store bezel on clean, protected surface. Do not pull on wires when disconnecting.

STOP 16. Open storage door and carefully pull out and up to disengage clips at bottom of door. (Fig. A13)


i. Maneuver door so the two (2) tabs on the door clear the detents on the IP.

ii. Store on clean, protected surface.



## B. Mirror Installation

1. Plug the wire harness 7-pin connector into the back of the mirror. (Fig. B1)
2. Slide the EC mirror onto the mounting button on windshield. (Fig. B2)

-  3. Tighten the screw in the mirror mounting bracket with torque wrench to 1.7 N•m (15 lbf•in).

## C. Wire Harness Installation

1. Cut five (5) pieces of foam tape in half to give ten (10) half-pieces for use in Steps C. 2. ii., C. 3. ii., C. 6., C. 7., C. 11., & C. 11. ii. (Fig. C1)
2. **For factory maplight models only.** Carefully loop the factory harness as shown in Fig. C2.
  - i. Bundle harness and secure with wire tie as shown in Fig. C2. Clip off wire tie excess.
  - ii. Attach one (1) half-piece of foam tape to connector as shown in Fig C2. Adhesive side towards harness.
  - iii. Tuck harness above headliner and secure to headliner with the foam tape.
3. Carefully pull down the headliner and check that factory foam tape has been applied to the windshield retention clip lap joint. (Fig. C3)



- i. Be sure foam tape covers the sharp metal edges.
- ii. If tape is absent apply one (1) half-piece of foam tape to the windshield retention clip lap joint.

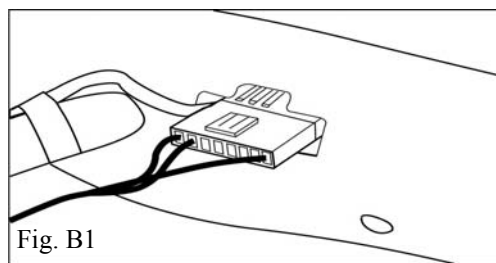


Fig. B1

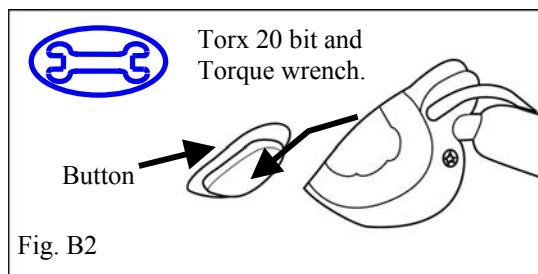


Fig. B2

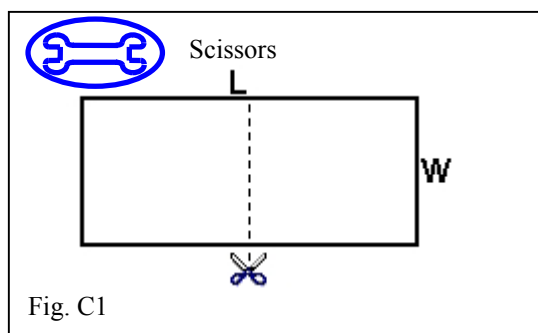


Fig. C1

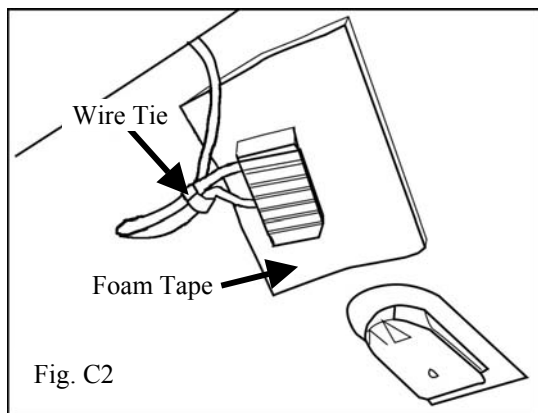


Fig. C2

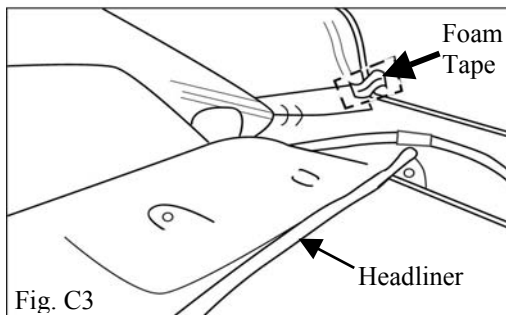


Fig. C3

4. Route wire harness from center area of headliner to driver side pillar approximately 15 mm from headliner edge. (Fig. C4)

- ➔ 5. Remove the harness-retaining clip and reattach with wire harness routed under the retaining clip. (Fig. C5)

- i. Slide the wire harness cover over the wire harness and extend to completely cover wire harness
  - ii. Be sure the bottom of cover is securely mounted to base.

- ➔ 6. Secure wire harness to headliner with four (4) half-pieces of foam tape in locations shown. (Fig. C6)

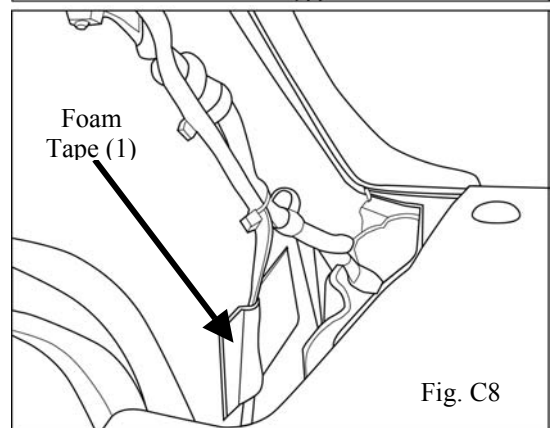
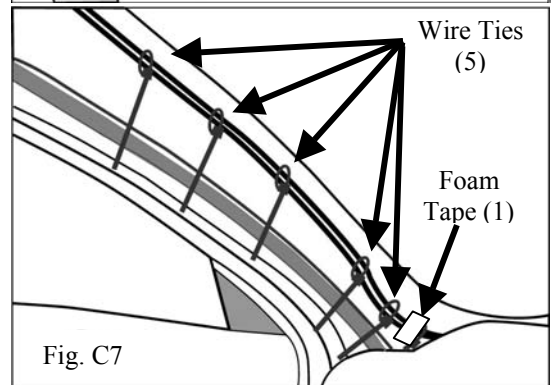
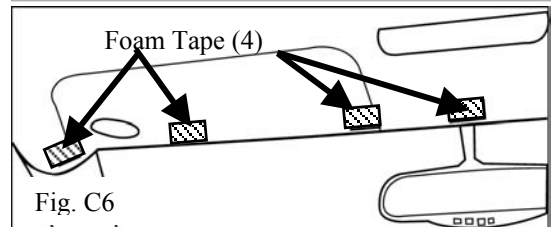
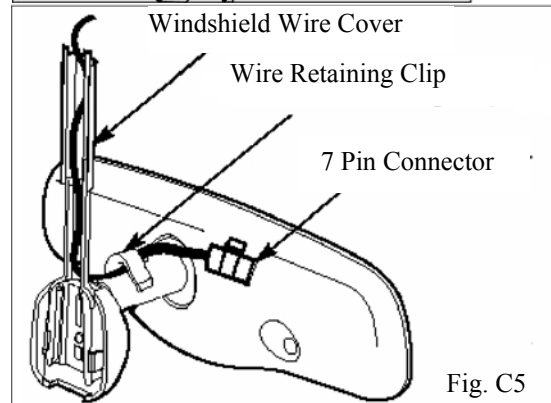
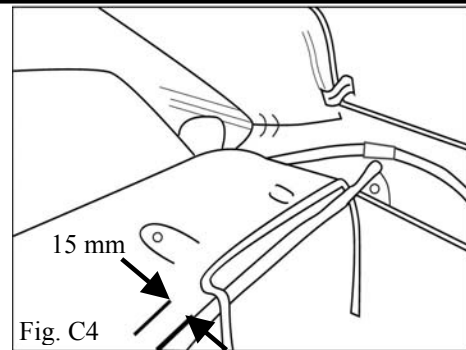
- ➔ i. Before applying foam tape, be sure the mirror has full range of movement.

- ➔ 7. Route wire harness down “A” pillar next to vehicle harness and loosely secure with five (5) wire ties and one (1) half-piece of foam tape.. (Fig. C7)

8. Route wire harness between “A” pillar and dash, into instrument panel area as shown. (Fig. C8)

- ➔ 9. Be sure to route the wire harness with the vehicle harness into the area behind the IP.

10. Clip off wire tie excess, five (5) places.





11. Apply one (1) half-piece of foam tape to the reinforcement retaining bracket located behind the IP. (Fig C9)



- i. Be sure the foam tape covers the sharp edge of the retaining bracket.



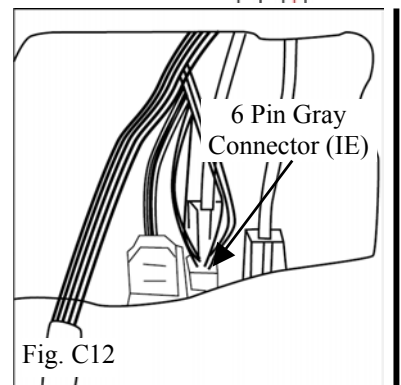
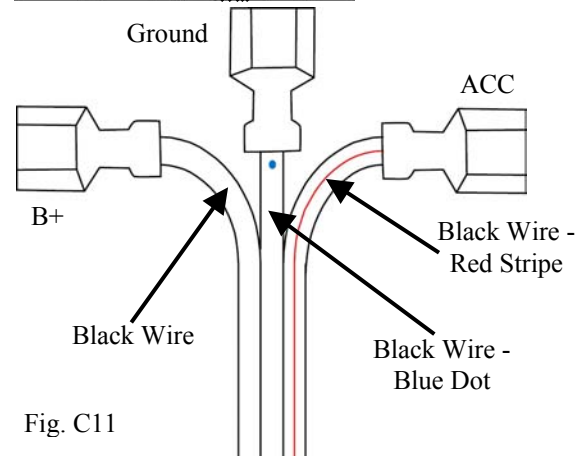
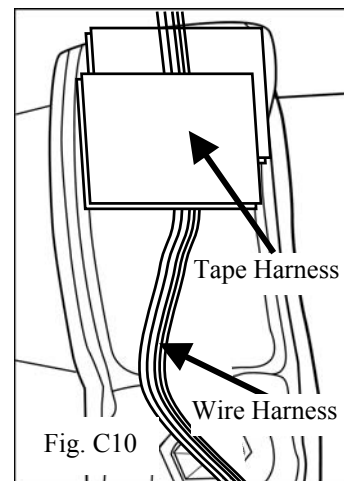
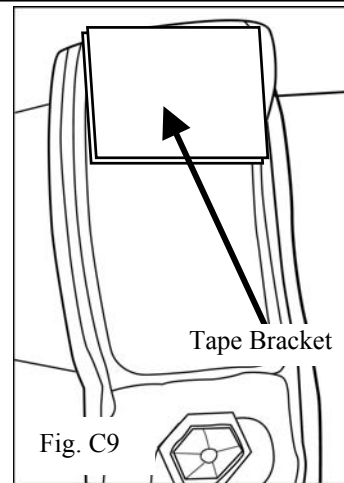
- ii. Route wire harness over the protection tape and secure with a further half-piece of foam tape. (Fig. C10)

12. Locate the B+ wire and pull it apart from mirror wire harness (8 inches) (Fig. C11).

- i. The B+ wire is the outside wire of the harness and opposite the ACC wire with the red stripe.

13. Locate the 6-pin gray junction block connector (IE) in junction block and remove. (Fig. C12). Do not pull on wires when disconnecting.

- i. Locate pin #4, Blue-White wire, in the 6-pin connector.



14. Apply T-tap to the Blue-White wire about one inch from the connector with long nose pliers. (Fig. C13)



- i. Make sure T-tap halves are snapped together and secured.

15. Plug the Black (B+) wire with the spade connector into the T-tap on the Blue-White wire (pin 4) of the 6 pin connector.

16. Reconnect the 6-pin white connector (IE) into the junction block.

17. Apply T-taps to two wires of the white 10-pin connector (that was removed from the side view mirror control assembly (Step A. 15. i.)) (Fig. C14)

- i. Locate the White-Black wire (pin 7) and apply the T-tap one 1 inch from connector with long nose pliers.
- ii. Locate the Gray wire (pin 8) and apply the T-tap 1.5 inches from connector with long nose pliers.



- iii. Make sure T-tap halves are snapped together and secured.

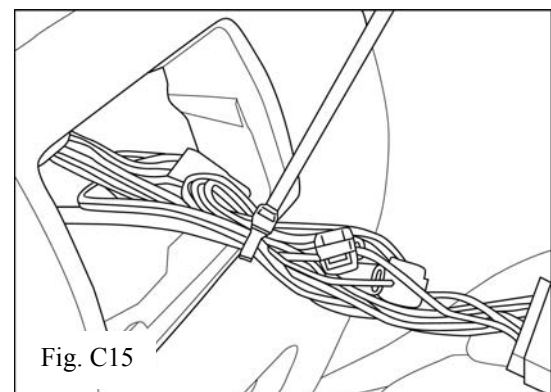
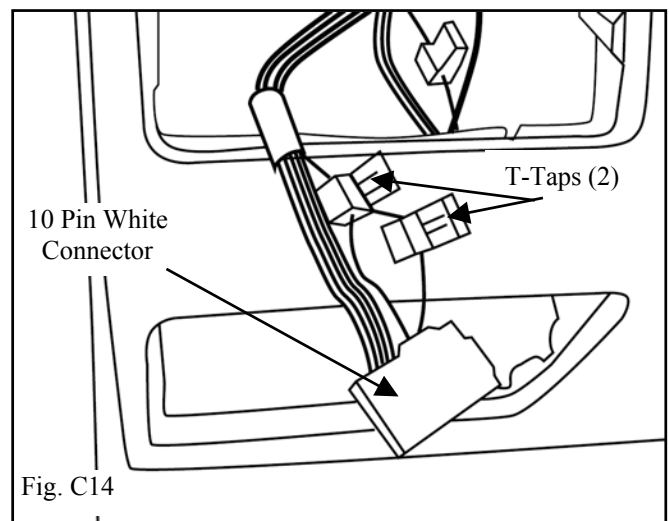
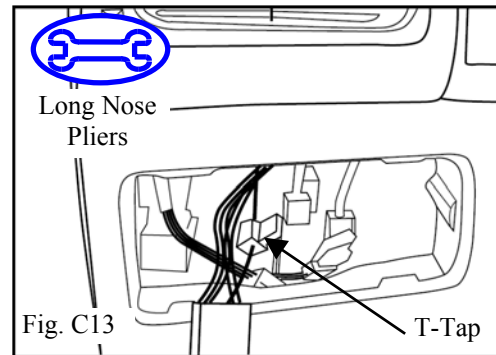
18. Plug the center wire with blue dot (Ground) of the wire harness with the spade connector into the T-tap on the White-Black wire (pin 7) of the 10 pin connector.

19. Plug the black wire with the red tracer (ACC) of the wire harness with the spade connector into the T-tap on the Gray wire (pin 8) of the 10 pin connector.

20. Bundle excess wire harness in the side view mirror control assembly opening. Fig. C15.



- i. Secure the excess with wire tie and clip off excess wire tie.





**D. Testing**

1. Reconnect vehicle's negative battery cable.  
(Fig. D1)
2. Turn ignition key to ACC position.
3. Check that both map lights turn on by pushing both switches on mirror. (Fig. D2)
4. With the vehicle in a fairly well-lit area, perform the following tests:
5. Auto Dimming Feature:

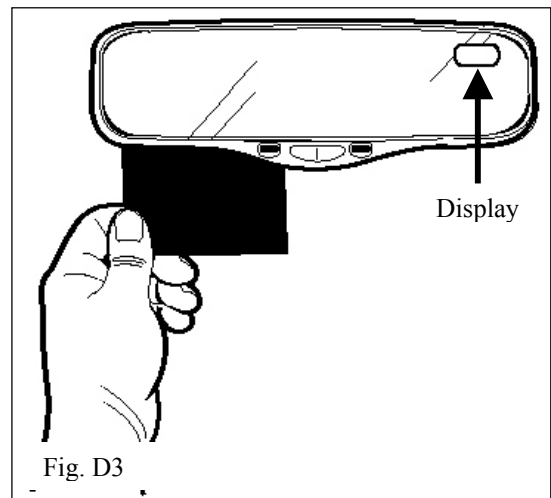
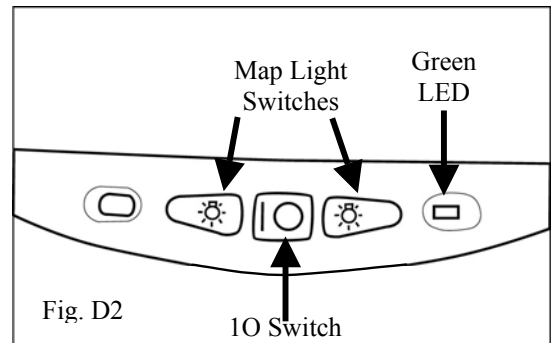
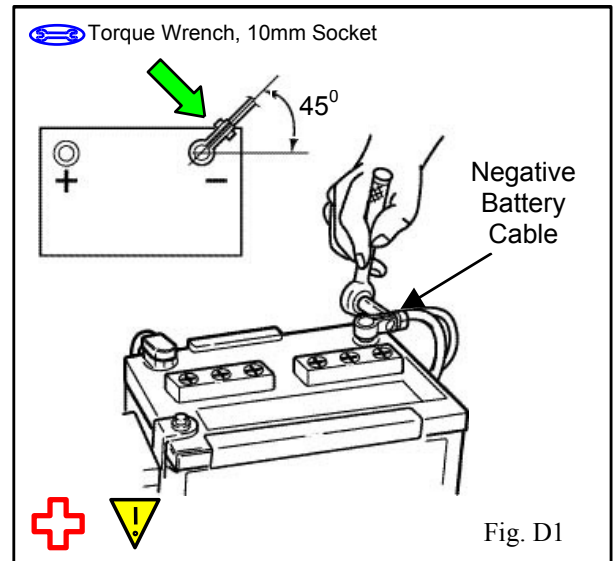
- i. To make sure the auto-dimming feature is on, verify that the green LED to the right of the right map switch is on. If it is not on, push the "10" (on/off) button to turn the green LED on. (Fig. D2)
- ii. Cover the forward-looking light sensor located below the wire harness connection on the back of the mirror (a dark cloth or towel will work). (Fig D3)

- iii. In a few seconds (may vary with ambient light level), mirror will begin to darken.

- iv. Remove the cover from the forward photocell and the mirror will begin to clear.

6. Compass Feature:

- i. Push the "10" switch and hold for 3 seconds or until the display turns on. The visual display is now in the compass mode and the vehicle's directional heading should be displayed.



**NOTE:** If display reads “C” the dealers will later calibrate the compass.

- ii. Pushing the “10” switch a second time and holding for 3 seconds will turn off the visual display.

- 7. Turn ignition key to OFF position.

#### E. Final Assembly

- 1. Reinstall the side view mirror control assembly.
- 2. Reinstall coin holder box.
- 3. Reinstall door weather seal and, if applicable, sunroof opening seal.
- 4. Reinstall driver side “A” pillar trim.
- 5. Reinstall driver side sun visor and clips.
- 6. Reinstall dome light assembly, bezel, driver side grab handle, and cover if applicable.



- 7. Place the operation instruction card in the vehicle glove box.



- 8. Remove fingerprints, smudges, dirt, etc. from mirror and windshield with 3M™ Prep Solvent-70 or Household Windex.



- i. When cleaning with 3M™ Prep Solvent-70 or Household Windex, follow the manufacturer's directions. Do not allow cleaner to air dry.



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



Section III – Functional Verifications

Check: \_\_\_\_\_

Look For: \_\_\_\_\_

Accessory Function Checks

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

- ☐ Turn ignition switch to ON.

Verify green LED is on. If it is not ON  
press IO switch – confirm LED is ON.

**Auto-dimming feature:**

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

Verify mirror darkens.

**Mirror clears:**

- ☐ Remove cover from photocell.

Mirror returns to clear state

**Compass feature:**

- ☐ Push the “IO” switch and hold for 3  
seconds or until the display turns on.
- ☐ Push the “IO” switch a second time and  
hold for 3 seconds.

Verify vehicle’s directional heading is  
displayed.

Verify the visual display turns off.

**Map lights feature:**

- ☐ Press each map light switches on mirror.

Verify that both map lights turn on.

Vehicle Function Checks

- ☐ Check IP light dimmer control
- ☐ Check mirror controls

Verify IP light dimmer functions properly

Verify the left and right mirror control  
functions properly



Section III – Functional Verifications

Check:

- ☐ Check front dome light
- ☐ Check rear dome light
- ☐ Check sunroof operation

Look For:

Verify dome light functions properly

Verify dome light functions properly

Verify sunroof functions properly