

Part Number: 08586-52970

Section I - Installation Preparation

Kit Contents

Item #	Quantity Req'd.	Description
1	1	Wire Harness
2	1	V3 Security ECU
3	2	Remote Control Transmitters
4	1	Piezo Buzzer
5	1	Status Monitor
6	1	Butyl Tape

Hardware Bag Contents

Item #	Quantity Req'd.	Description
1	1	ECU Mounting Bracket
2	3	Large Foam Tape Strips (2 per.)
3	1	Small Foam Tape Strip (1 per.)
4	10	Large Wire Ties
5	25	Medium Wire Ties
6	1	Owner's Manual
7	2	Warning Labels
8	1	Warranty Card

Additional Items Required For Installation

Item #	Quantity Req'd.	Description
1		

Conflicts

Note: This kit may not be installed in vehicles with Factory TDS.

Recommended Tools

Safety Tools	
Safety Glasses	
Safety Gloves	Optional
Vehicle Protection	Blankets, Part Boxes
Special Tools	
None	
Installation Tools	
Screwdriver	Phillips # 2, (or Tip)
Screwdriver	Flat Blade, Small
Scrwdriver	Jeweler's
Socket	10 mm
Socket Extension	3"
Wrench	10 mm
Torque Wrench	36 lbf-in
Nylon Panel Removal Tool	e.g. Panel Pry Tool #1 Toyota SST # 00002-06001-01
Side Cutters	
Utility Knife	
Pliers	

Special Chemicals	
Cleaning Fluid	3M™ Prep Solvent-70
Glass Cleaner	Household Windex

General Applicability






Note: SCION xA with power door locks, only.

Recommended Sequence of Application

Item #	Accessory
1	TVIP
2	Satellite Receiver
3	Audio
4	Door Sill Applique (SB)

*Mandatory

Legend

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

Section II - Installation Procedure

NOTES:

Removed Parts:-

STOP Place all removed parts on a protected surface.

Connectors:-

STOP When disconnecting connectors, do not pull on the wires; pull on the connectors.

Wire Ties:-

STOP When using wire ties to secure harness, clip the wire ties after securing them.

A. Vehicle Disassembly

1. For automatic equipped vehicles, place the shifter in low gear and set the parking brake prior to disconnecting the battery.
2. Remove the negative battery cable. (Fig. A-1)

i. Protect the fender before starting.

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

3. Using a Nylon Panel Removal Tool, remove the driver's side step cover. (Fig. A-2)

STOP i. Cover the floor and seats before starting.

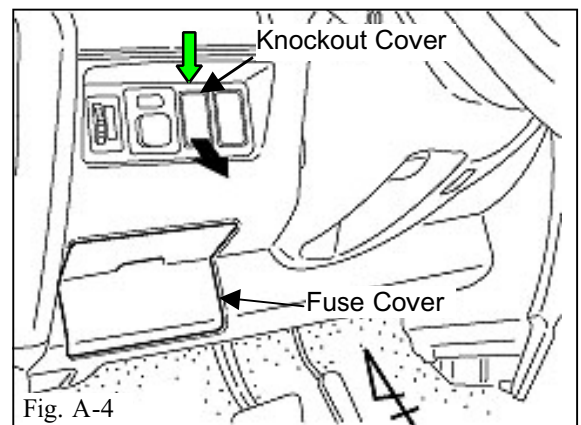
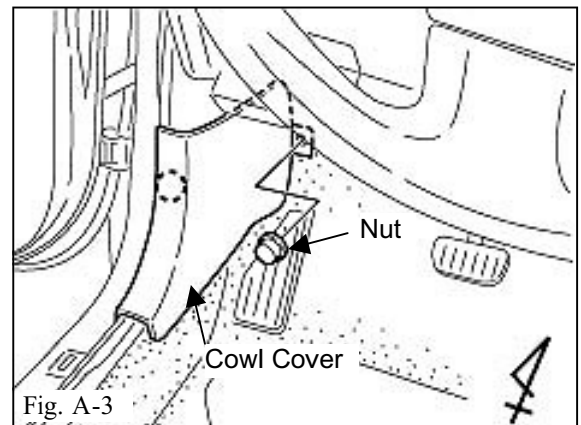
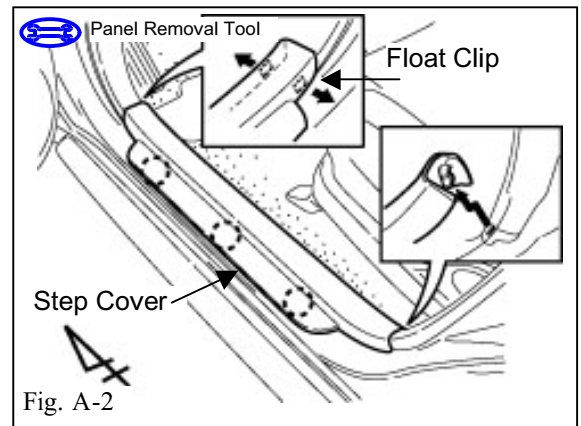
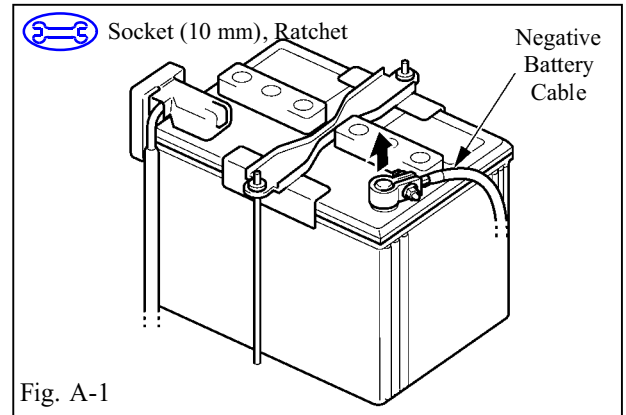
STOP ii. Remove the float clip first to prevent damaging the panel.

4. Remove the driver's side cowl cover. (Fig. A-3)

i. Remove the nut securing the cowl cover.

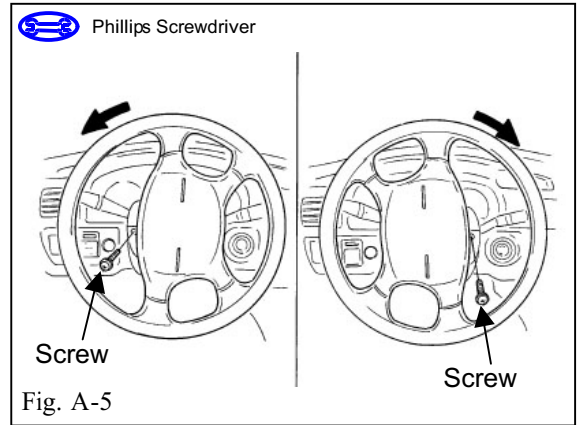
5. Remove the driver's side fuse cover. (Fig. A-4)

→ i. Remove and discard the knockout cover third space from the left.

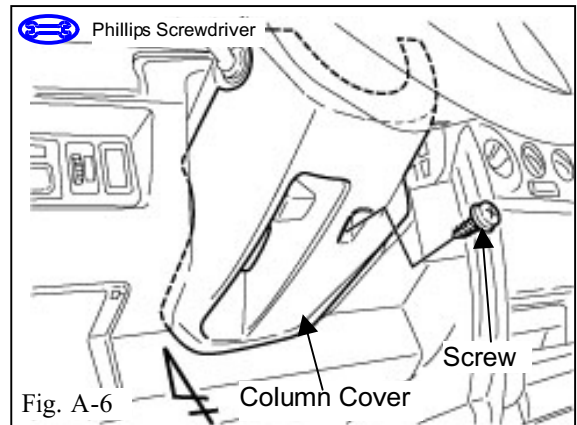



Section II - Installation Procedure

6. Remove the two screws securing the lower steering column cover behind the steering wheel. (Fig. A-5)
 - i. Insert the key into the ignition switch and turn it to *ON* to unlock the steering wheel.
 - ii. Turn the steering wheel left and right to gain access to the screws.




7. Remove the lower steering column cover. (Fig. A-6)
 - i. Remove the bottom screw securing the cover.

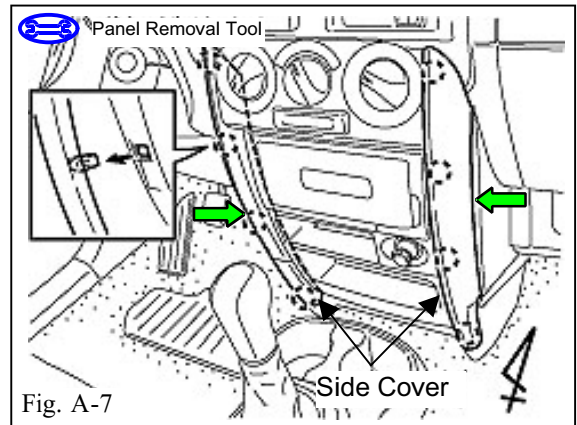


-  8. Using the Nylon Panel Removal Tool, remove the center cluster side covers. (Fig. A-7)

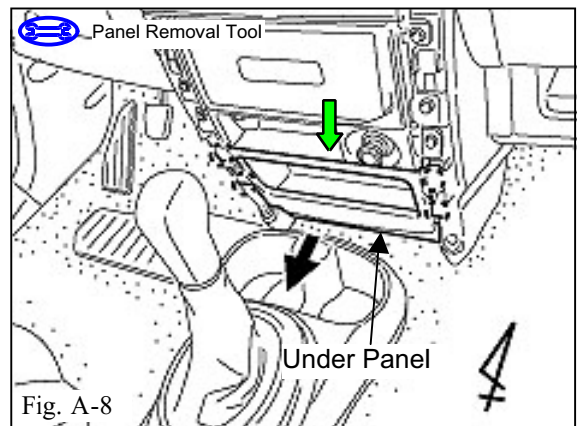


- i. Use caution when prying center cluster side covers to avoid damage.

-  9. Using the Nylon Panel Removal Tool, remove the center cluster under panel. (Fig. A-8)



- i. For manual transmission place in 4th gear.



Section II - Installation Procedure

10. Remove the center cluster under cover.
(Fig. A-9)

i. Remove the two clips securing the under cover.

11. Using the Nylon Panel Removal Tool, remove the passenger's side step cover. (Fig. A-10)



i. Cover the floor and seats before starting.

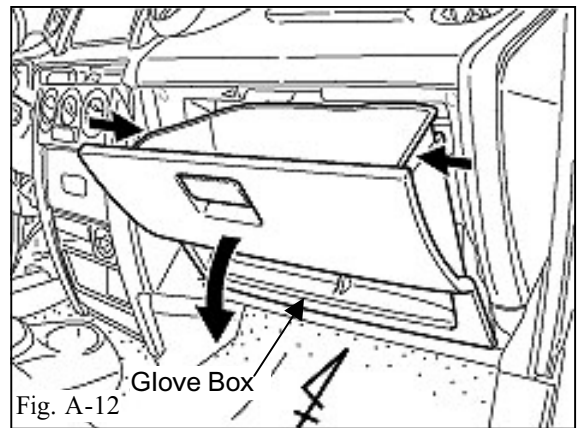
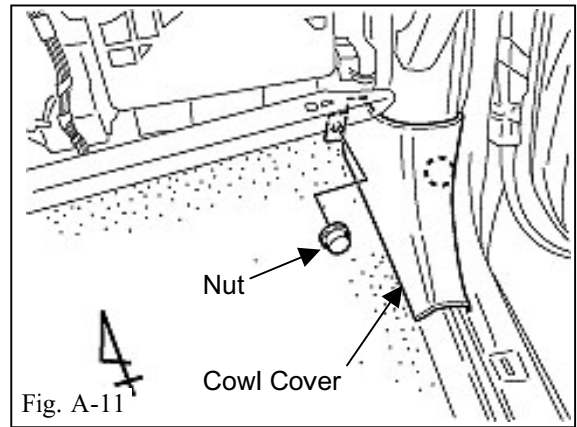
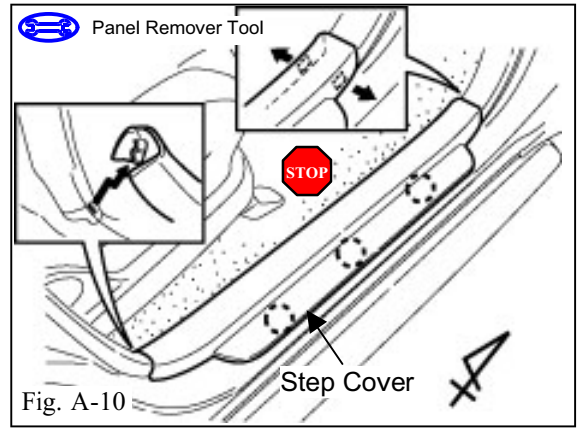
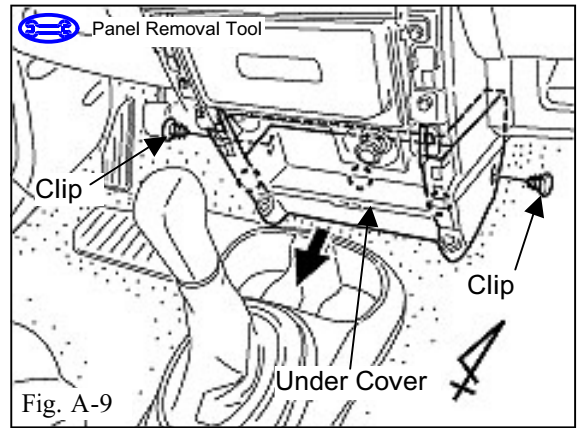


ii. Remove the [float clip] first to prevent damaging the panel.

12. Remove the passenger's side cowl cover.
(Fig. A-11)

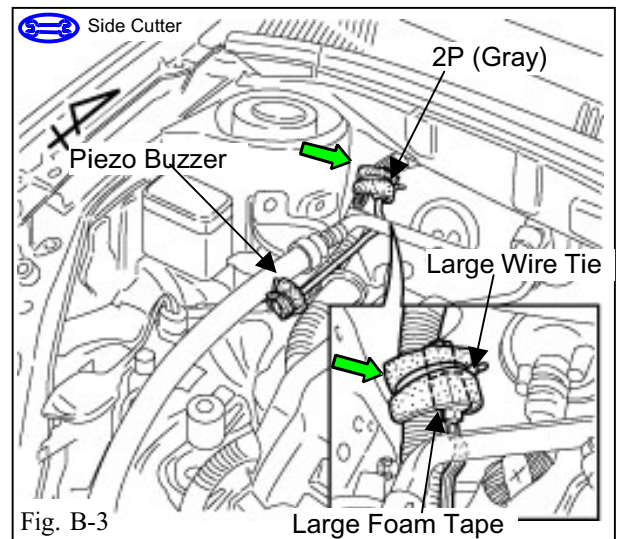
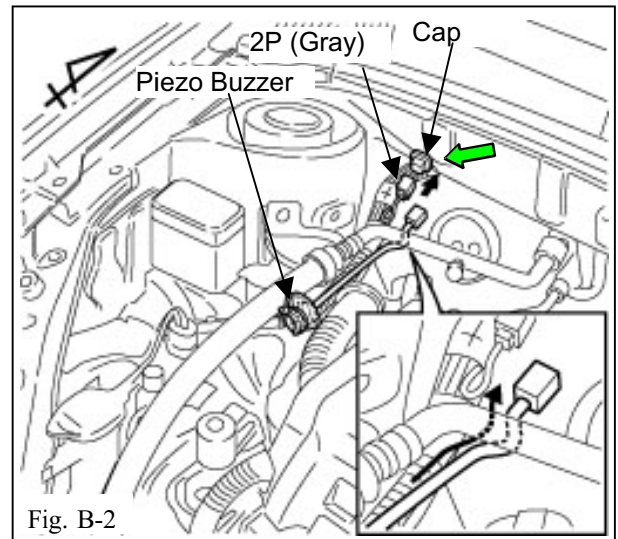
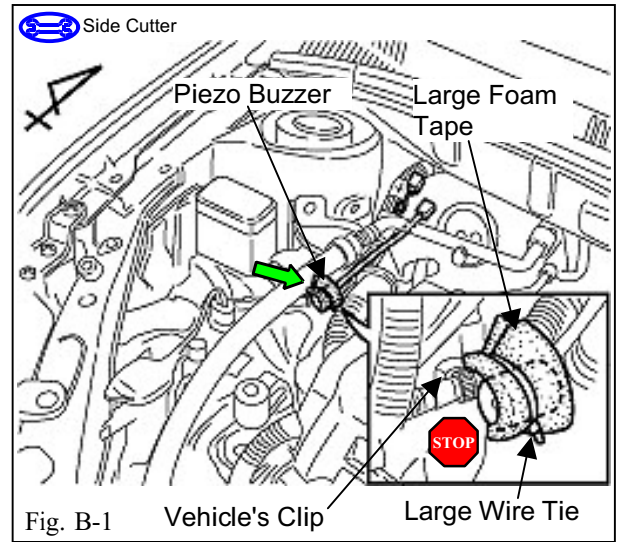
i. Remove the nut securing the cowl cover.

13. Remove the glove box. (Fig. A-12)



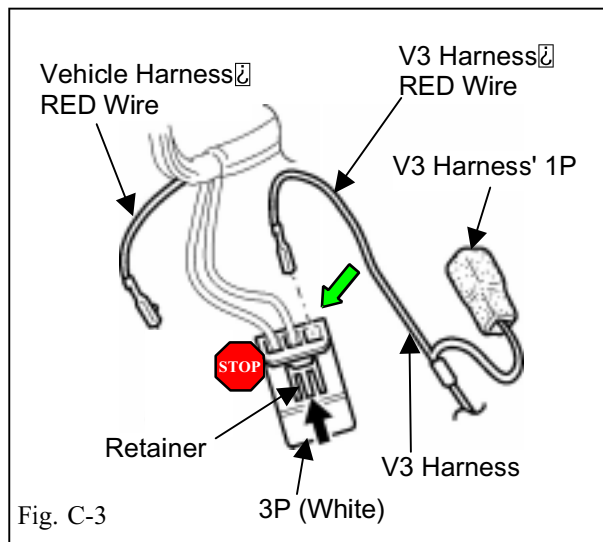
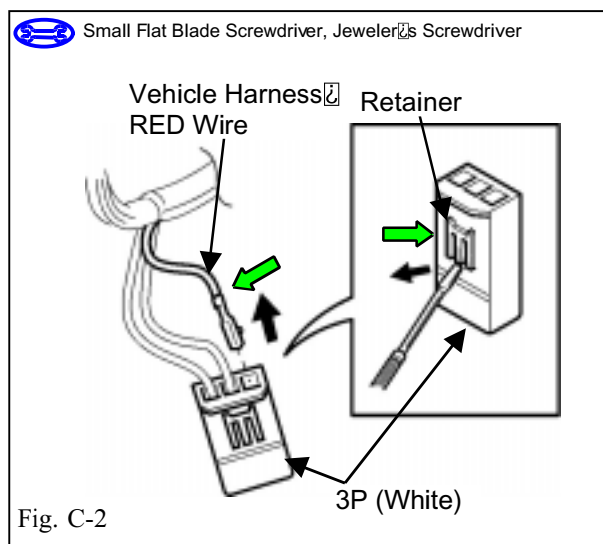
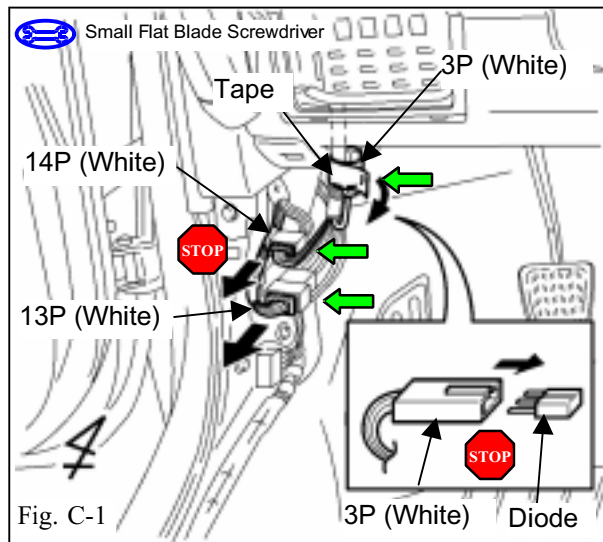
B. Piezo Buzzer Installation

- ➔ 1. Using one large foam tape and one large wire tie, secure the Piezo Buzzer to the vehicle's harness near the vehicle's clip. (Fig. B-1)
 - ⊘ i. Do not cover the opening of the Buzzer with the foam tape.
 - ii. Ensure Buzzer opening is facing downwards.
2. Locate the gray 2P connector near the vehicle grommet. (Fig. B-2)
 - i. Remove and discard the cap from gray 2P connector.
- ➔ 3. Plug in the Piezo Buzzer harness gray 2P connector to the vehicle harness gray 2P connector. (Fig. B-3)
 - ➔ i. Verify the connectors are plugged in securely.
- ➔ 4. Using one large foam tape and one large wire tie, secure the gray 2P connectors to the vehicle harness. (Fig. B-3)



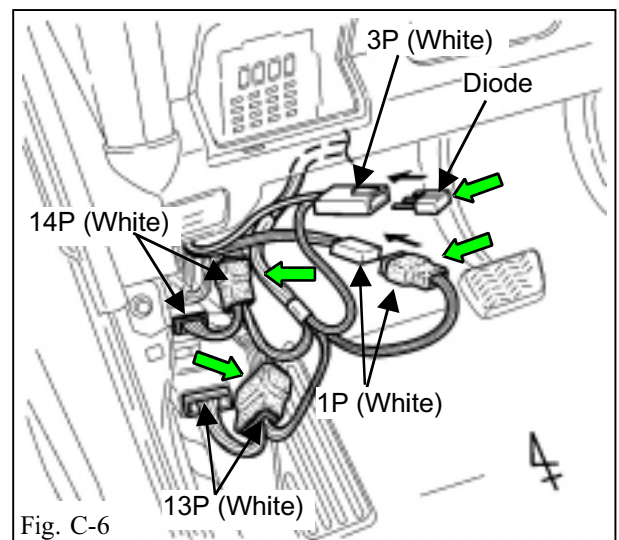
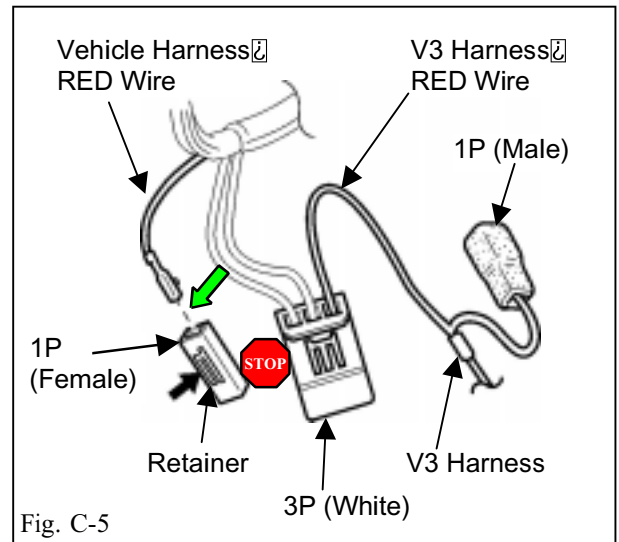
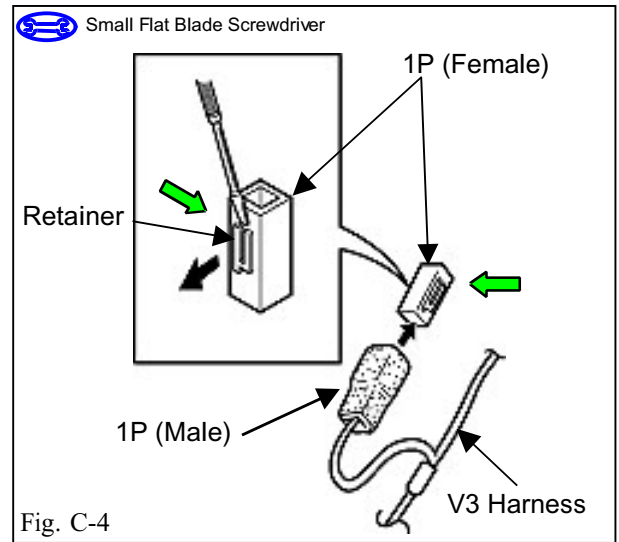
C. V3 Harness Installation

- ➔ 1. Locate the vehicle harness' white 3P diode connector and remove the tape securing the white 3P diode connector to the driver's side cowl area. (Fig. C-1)
- ➔ 2. Locate and disconnect the white 13P and 14P connectors from the driver's side cowl area. (Fig. C-1)
3. Using a small flat blade screwdriver, remove the diode from the white 3P diode connector. (Fig. C-1)
 - ⊘ i. Do not discard the diode.
- ➔ 4. Using a small flat blade screwdriver, lift up the terminal retainer on the white 3P diode connector. (Fig. C-2)
- ➔ 5. Locate the RED wire in the right terminal space. Using a jeweler's screwdriver, release and pull out the RED wire. (Fig. C-2)
6. Insert the wire at the end of the V3 harness' RED wire into the right terminal space of the vehicle harness' white diode 3P connector. (Fig. C-3)
 - ⊘ i. Verify the correct opening is chosen.
 - ⊘ ii. Verify the terminal is inserted and seated properly.
 - ⊘ iii. Close the retainer.
 - ⊘ iv. The terminal should not come out when pulled lightly from the back. If the terminal comes off, then push it in more securely.



Section II - Installation Procedure

- ➔ 7. Disconnect the empty 1P female connector plugged into the V3 harness' 1P male connector. (Fig. C-4)
- ➔ 8. Using a small flat blade screwdriver, lift up the terminal retainer on the back of the empty 1P connector. (Fig. C-4)
- ➔ 9. Insert the terminal at the end of the vehicle harness' RED wire into the empty 1P connector. (Fig. C-5)
 - STOP i. Verify the correct opening is chosen.
 - STOP ii. Verify the terminal is inserted and seated properly.
 - iii. Close the retainer.
 - iv. Terminal should not come out when pulled lightly from the back, if terminal comes off, then push it in again.
- 10. Plug in the V3 harness' white 1P male connector into the V3 harness' white 1P female connector. (Fig. C-6)
 - ➔ i. Verify the connectors are plugged in securely.
 - ➔ ii. Refit the diode to the vehicle harness' 3P connector.
- 11. Plug in the V3 harness' white 13P connectors between the driver's side cowl area and the vehicle harness 13P connector. (Fig. C-6)
 - ➔ i. Verify the connectors are plugged in securely.
- 12. Plug in the V3 harness' white 14P connectors between the driver's side cowl area and the vehicle harness 14P connector. (Fig. C 6)
 - ➔ i. Verify the connectors are plugged in securely.



Section II - Installation Procedure

13. Secure the vehicle harness' white 3P diode connector and V3 Harness' white 1P connector to the vehicle harness using one medium wire tie. (Fig. C-7)
14. Secure the 13P connectors and V3 harness to the connector box with one large wire tie. (Fig. C-7)
 - i. Arrange and secure the 13P connectors under the connector box as shown.
15. Secure the V3 harness to the vehicle harness with one medium wire tie. (Fig. C 7)
16. Route and attach the V3 harness' relays to the vehicle harness with two large wire ties. (Fig. C-8)
17. Locate and disconnect the white 9P connector and white 13P connector from the back side of the driver's side J/B. (Fig. C-9)

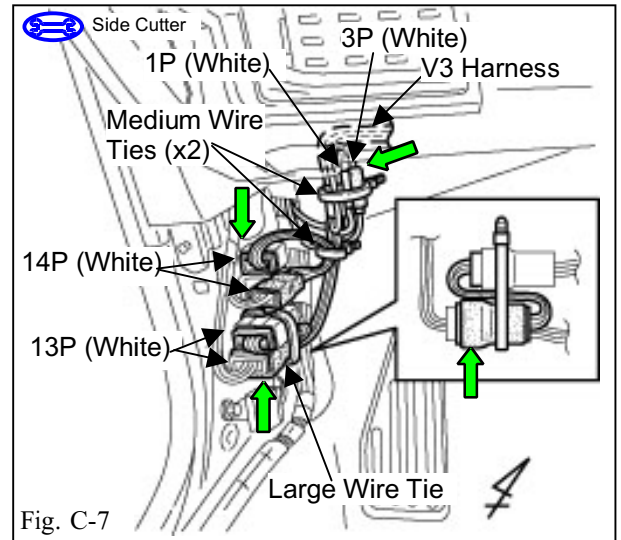


Fig. C-7

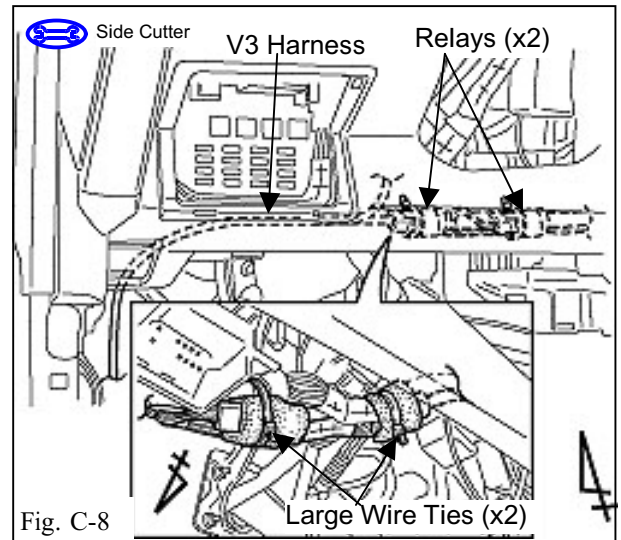


Fig. C-8

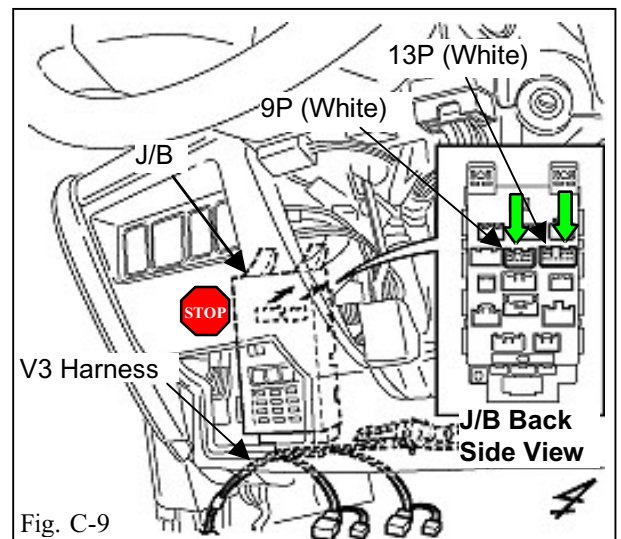


Fig. C-9

Section II - Installation Procedure

- ➔ 18. Plug in the V3 harness' white 9P connectors between the driver's side J/B and the vehicle harness 9P connector. (Fig. C-10)
- ➔ i. Verify the connectors are plugged in securely.
- 19. Plug in the V3 harness' white 13P connectors between the driver's side J/B and the vehicle harness 13P connector. (Fig. C-10)
- ➔ i. Verify the connectors are plugged in securely.
- ➔ 20. Secure the 9P connectors and 13P connectors to the vehicle harness with two large wire ties. (Fig. C-10)
- 21. Route the V3 harness toward the lower part of steering wheel. (Fig. C-11)
- 22. Locate and disconnect the white 6P connector from the lower part of steering wheel. (Fig. C-11)

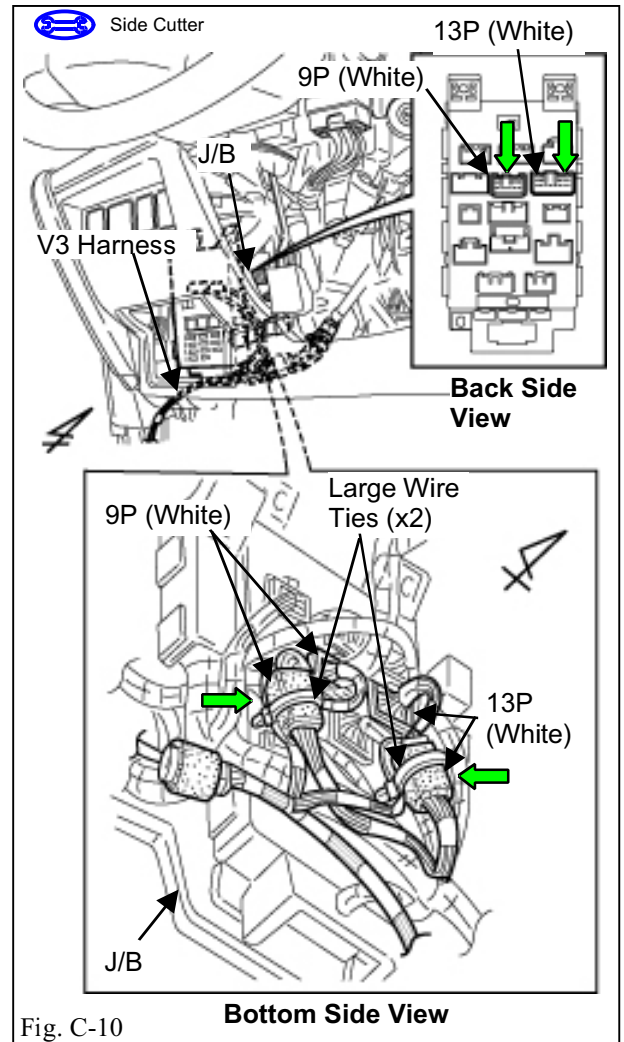


Fig. C-10

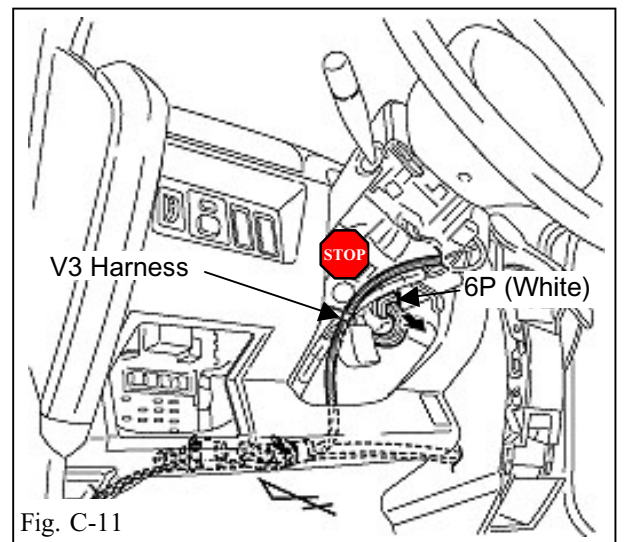


Fig. C-11

23. Plug in the V3 harness' white 6P connectors between the vehicle harness white 6P connector and the lower part of steering wheel. (Fig. C-12)



i. Verify the connectors are plugged in securely.



24. Secure the 6P connectors and V3 harness to the vehicle harness with one large wire tie. (Fig. C-12)

25. Secure the V3 harness to the vehicle harness with one medium wire tie. (Fig. C -12)

26. Route the V3 harness toward the right side of steering wheel. (Fig. C-13)

27. Locate and disconnect the black 12P connector from the steering wheel area. (Fig. C-13)

28. Plug in the V3 harness' 12P connectors between the vehicle harness 12P connector and the steering wheel area. (Fig. C-14)



i. Verify the connectors are plugged in securely.

29. Secure the V3 harness' 12P connectors to the vehicle harness with one medium wire tie. (Fig. C-14)

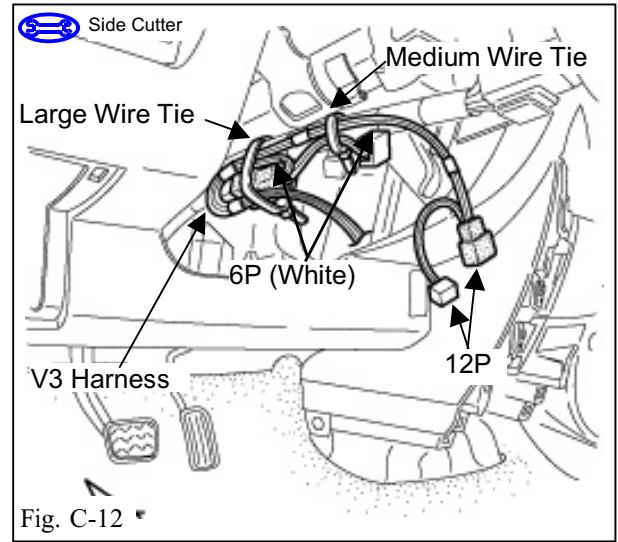


Fig. C-12

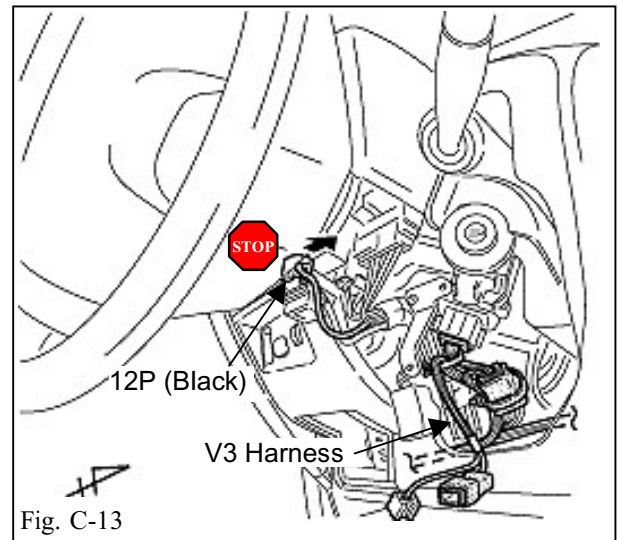


Fig. C-13

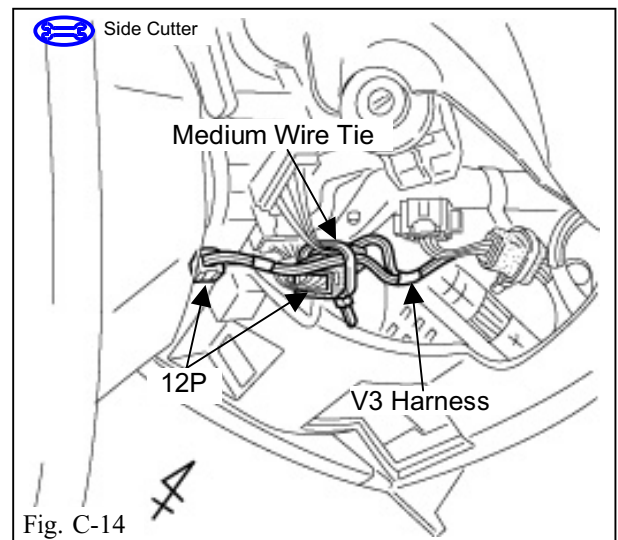


Fig. C-14

30. Route and secure the V3 harness to the vehicle harness with one medium wire tie below the steering column. (Fig. C-15)

31. Route and secure the V3 harness with the black 4P connector to the vehicle harness with two medium wire ties to the left of the steering column. (Fig. C-16)



i. Ensure that these wire ties do **NOT** secure the fog light switch harness.

D. Status Monitor Installation

1. Connect the V3 harness' black 4P connector to the status monitor. (Fig. D-1)



i. Verify the connectors are plugged in securely.

2. Insert the status monitor into the knockout opening in the dash cover. (Fig. D-1)



i. Verify the status monitor sits finish in the cover.

3. Secure the V3 harness to the vehicle harness with one medium wire tie. (Fig. D-1)

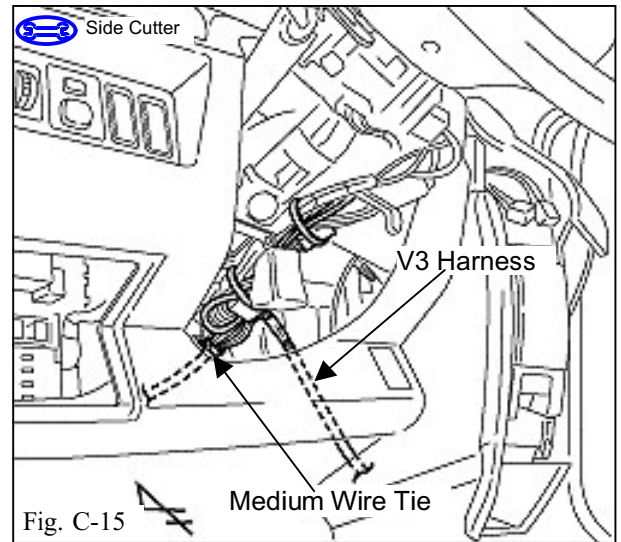


Fig. C-15

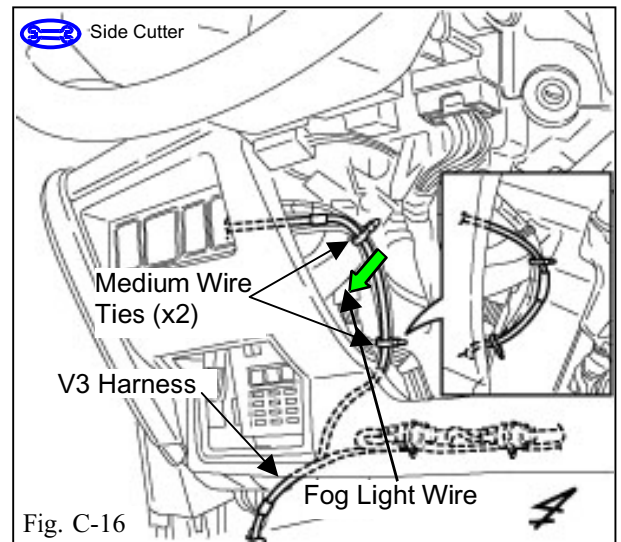


Fig. C-16

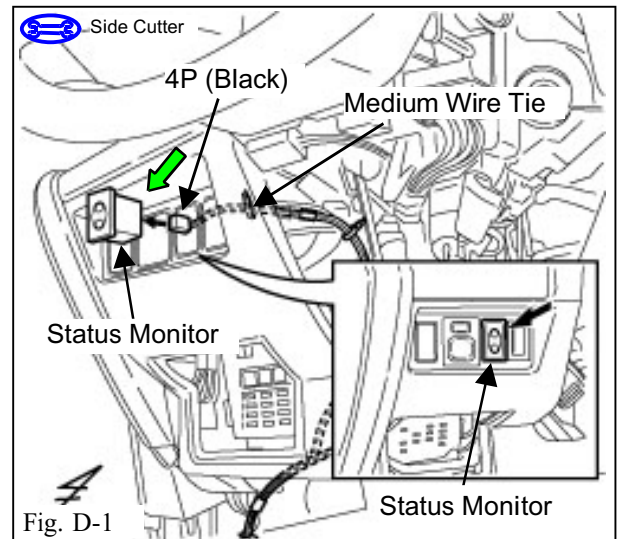


Fig. D-1

E. Wire Harness Installation (Continued)

1. Locate the vehicle's brace in the driver's side behind the center cluster. Attach one large foam tape to the brace. (Fig. E-1)



- i. Verify the edge of the brace is covered.

2. Locate the vehicle's brace in the driver's side behind the center cluster. Attach one large foam tape to the brace. (Fig. E-2)

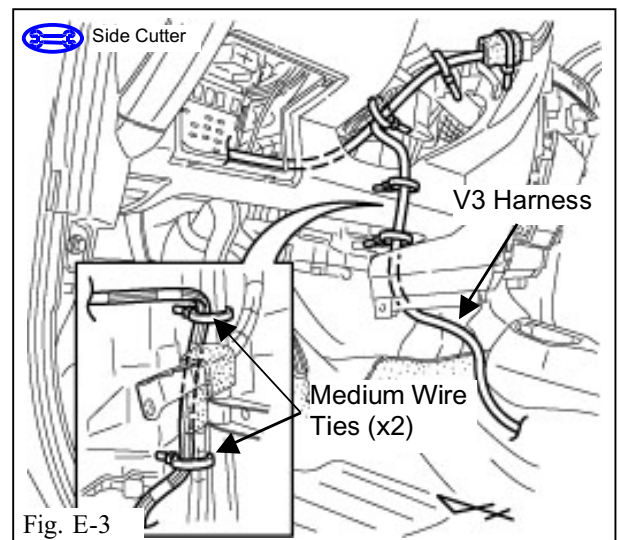
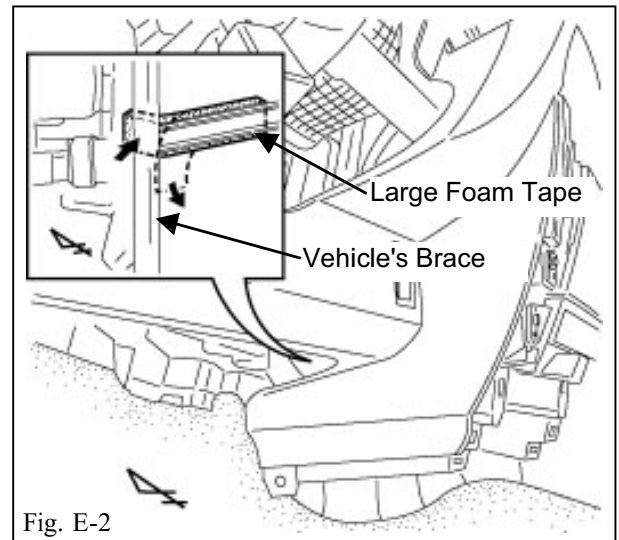
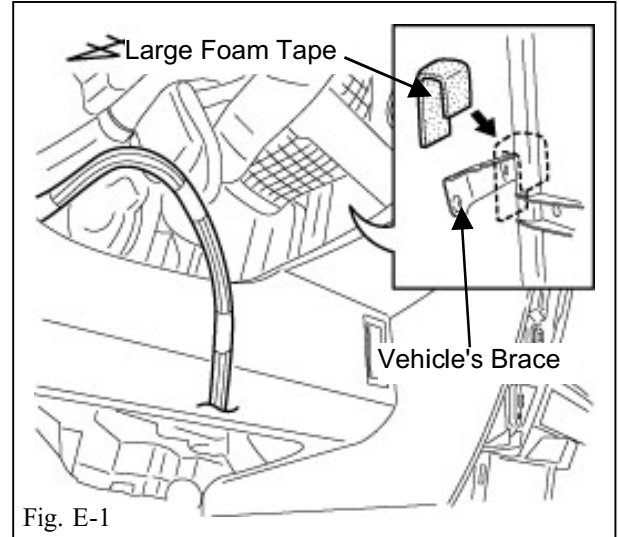


- i. Attach tape to both ends of the bracket.



- ii. Verify the edge of the brace is covered.

3. Route and secure the V3 harness to the vehicle harness with two medium wire ties behind the center cluster in the drivers side. (Fig. E-3)



4. Route and secure the V3 harness to the vehicle's bracket with one medium wire tie behind the center cluster. (Fig. E-4)

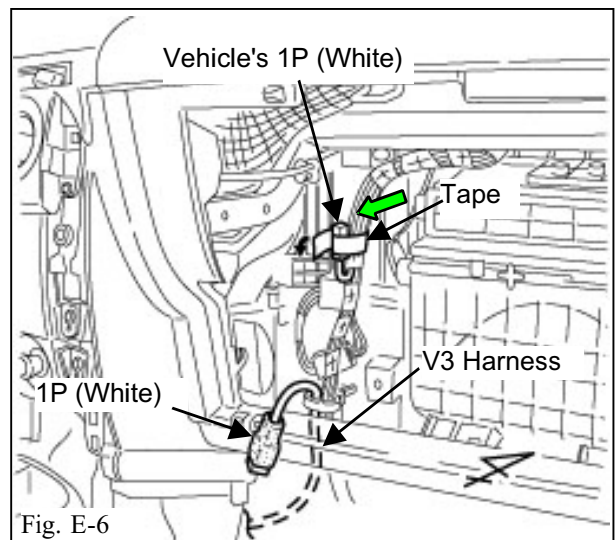
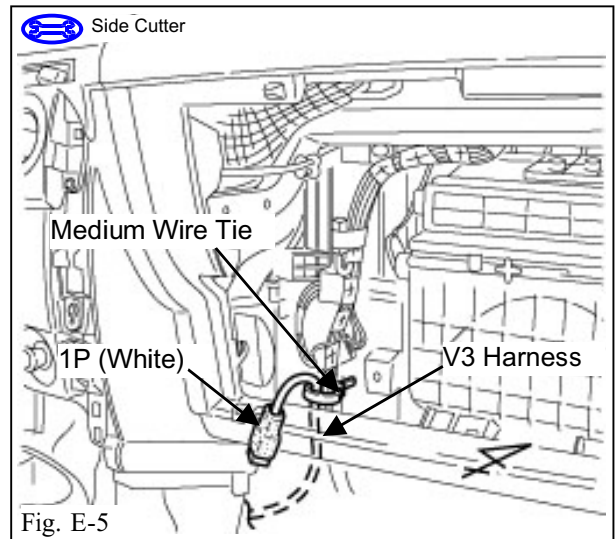
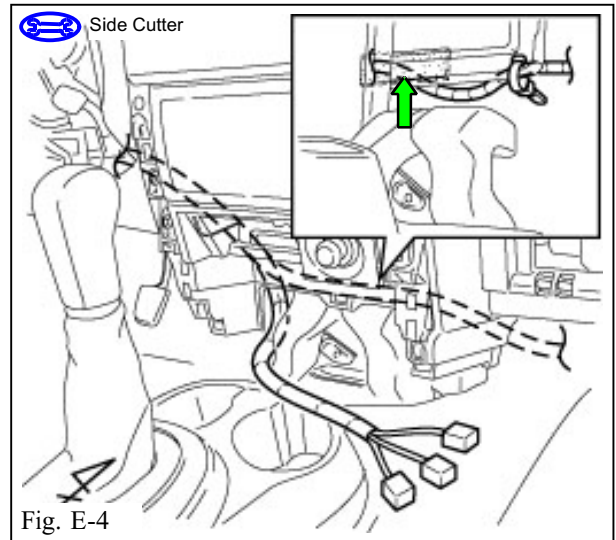


- i. Pass the wire tie through the hole of the vehicle's bracket.

5. Route and secure the V3 harness to the vehicle harness with one medium wire tie in the glove area. (Fig. E-5)



6. Locate the vehicle harness' white 1P connector and remove the tape from the 1P connector in the passenger side glove box area. (Fig. E-6)



7. Plug in the V3 harness' white 1P connector to the vehicle harness' white 1P connector. (Fig. E-7)



i. Verify the connectors are plugged in securely.

8. Secure the 1P connectors to the vehicle harness with one medium wire tie. (Fig. E-7)

9. Secure the V3 harness to the vehicle harness with two medium wire ties. (Fig. E-7)

10. Route and secure the V3 harness to the reinforcement with two large wire ties. (Fig. E-8)

11. Route and secure the V3 harness to the vehicle harness with three medium wire ties above the passenger side cowl area. (Fig. E-8)

12. Locate and disconnect the white 14P connector from the passenger side cowl area. (Fig. E-9)

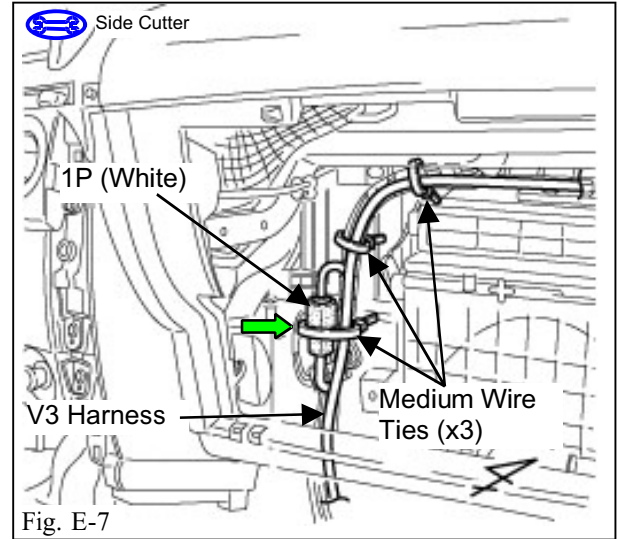


Fig. E-7

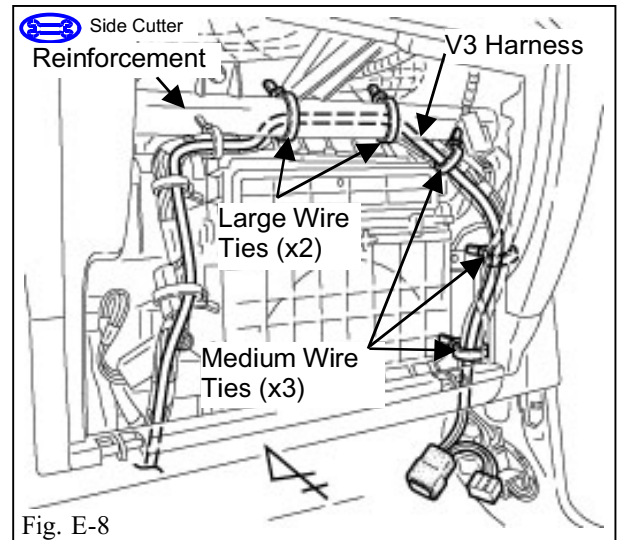


Fig. E-8

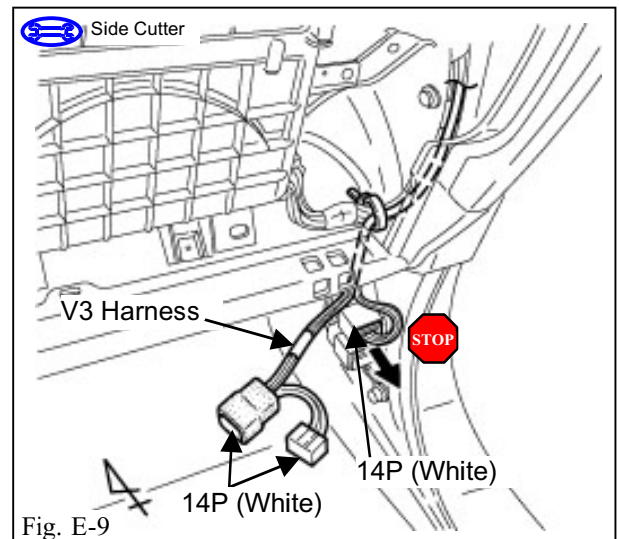


Fig. E-9

13. Plug in the V3 harness' white 12P connectors between the vehicle harness white 12P connector and the passenger side cowl area. (Fig. E-10)

➡ i. Verify the connectors are plugged in securely.

14. Secure the 12P connectors to the vehicle harness with one medium wire tie. (Fig. E-10)

F. V3 ECU Preparation and Installation

➡ 1. Turn the adjustment screw on the V3 ECU to the 6 position. (Fig. F-1)

➡ 2. Insert the ECU mounting bracket into the indicated bracket slot on the V3 ECU. (Fig. F-2)



i. Insert the mounting bracket into the correct slot; you have only one chance to install it properly.

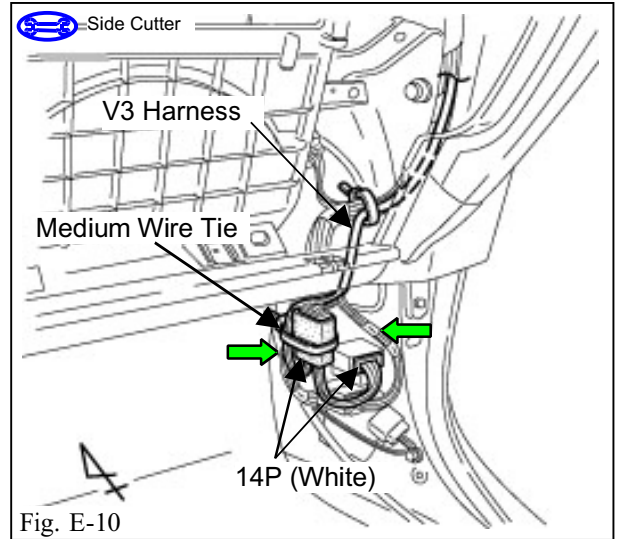


Fig. E-10

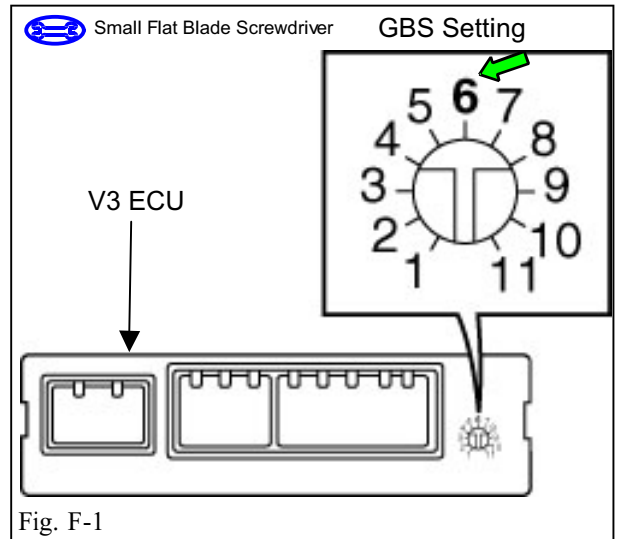


Fig. F-1

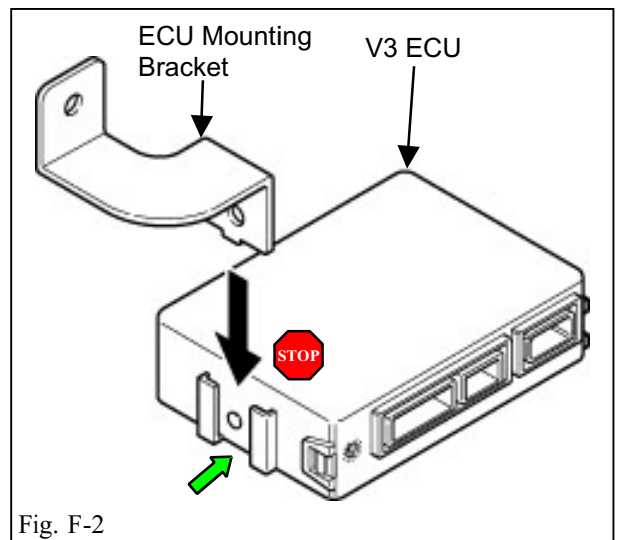
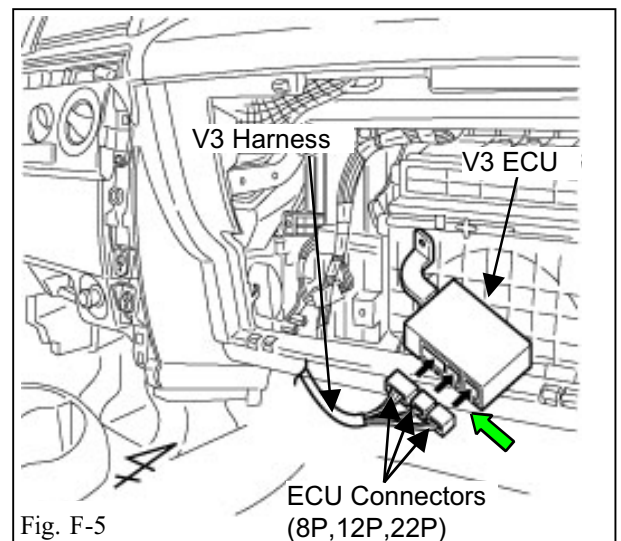
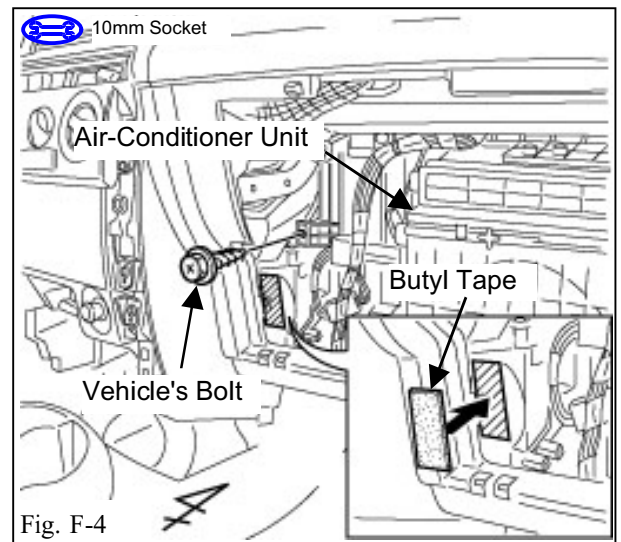
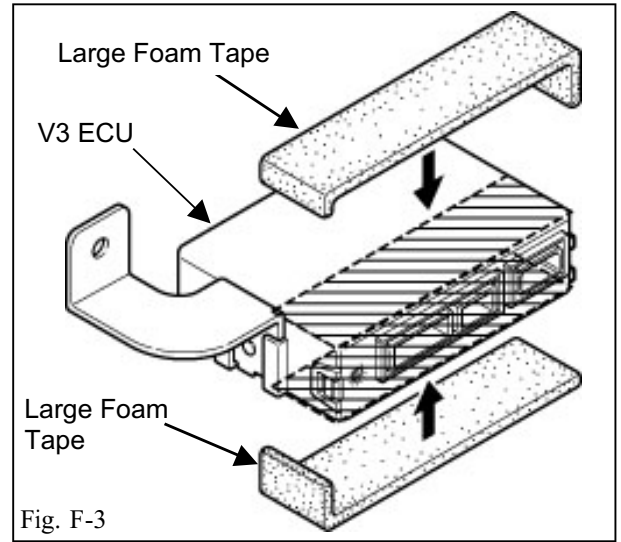


Fig. F-2

Section II - Installation Procedure

- ➔ 3. Apply two large foam tapes to the V3 ECU as shown. (Fig. F-3)
- 4. Locate and remove the bolt securing the air-conditioner unit in the glove box area. (Fig. F-4)
 - ⊘ i. Do not discard the bolt.
- ➔ 5. Apply the butyl tape to the air-conditioner unit as shown. (Fig. F-4)
- 6. Connect the V3 ECU connectors (8P, 12P, 22P) to the V3 ECU. (Fig. F-5)
 - ➔ i. Verify the connectors are plugged in securely.



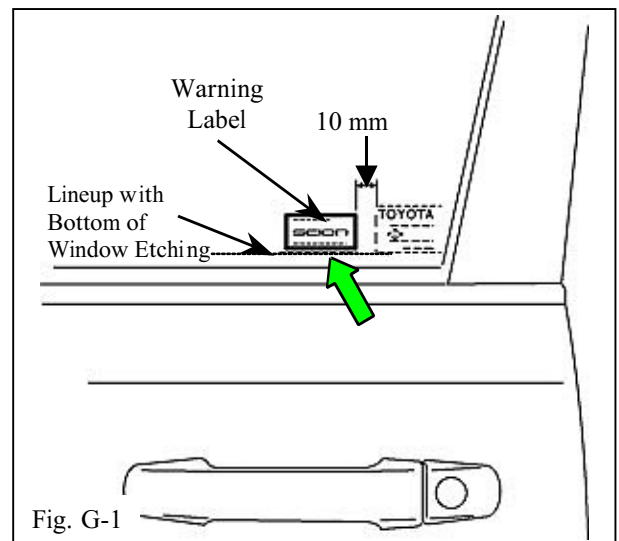
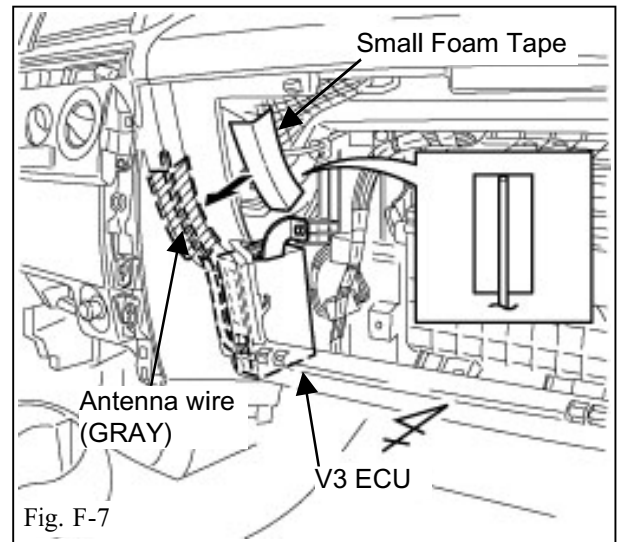
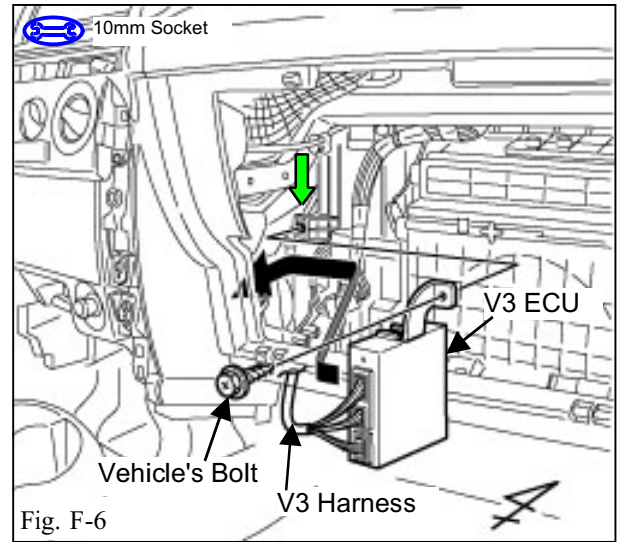
7. Mount the V3 ECU to the glove box area with the vehicle's bolt. (Fig. F-6)

- ➔ i. Verify the bolt is tightened securely.
- ➔ ii. Verify the V3 harness does not droop downward.

8. Using a small strip of foam tape, secure the GRAY Antenna wire to the inside surface of the upper dash cover as shown. (Fig. F-7)

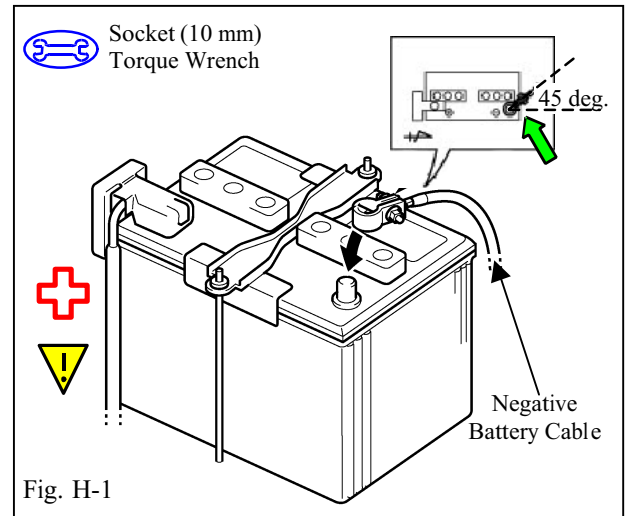
G. Warning Label Installation

- ➔ 1. Using 3M™ Prep Solvent-70 (or Household Windex), clean the inside surface of the front door windows in the area where label will be affixed.
 - ➔ i. When cleaning with 3M™ Prep Solvent-70 follow the manufacturer's directions. Do not allow cleaner to air dry.
- ➔ 2. Place warning label on the inside surface of the front door windows as shown. (Fig. G-1)
 - ➔ i. Use a piece of clear adhesive tape to lift the labels off of their protective backing sheet.
 - ⊘ ii. Do not touch the adhesive surface of the warning labels.
 - ⊘ iii. Line up the labels properly and place them on the glass *once*; do not use a label that was pulled off the glass.



H. Completing the Installation

- ➔ 1. Complete the reassembly of the vehicle.
- ➔ i. Reconnect any disconnected connectors.
- ➔ ii. Verify the panels fit together properly with no uneven gaps between them.
- 2. Clean up and remove any trash.
- 3. Reconnect the vehicle's negative battery cable. (Fig. H-1)
- ➔ i. Position the negative terminal to the battery as shown (~45 deg.).
- ⚠ ii. Tighten the nut to 4.1 N-m (36 lbf-in).
- ⊕ iii. Do not touch the positive terminal with any tool when replacing the cable.
- ⚠ 4. Place the owner's manual and warranty card (left in their protective bags), in the glove box.
- ⚠ 5. After completing the Functional Checks (Section III) place the remote transmitters (left in their protective bags), in the glove box.





Section III - Functional Verifications

Check: _____

Accessory Function Checks

Press and release the remote control lock button to start the system arming process.

Wait 30 seconds.

Press and release the remote control unlock button to disarm the system.

Press and release the remote control unlock button again within 3 seconds of disarming the system.

Open and close the driver door.

Arm and disarm the system with the remote again, then wait 30 seconds.

Press and release the remote control unlock button again to stop the arming process.

Open the driver door, then press and release the remote control lock button.

Close the driver door

Look For: _____

1. The tail and marker lights flash once.
The buzzer chirps once.
All doors lock.
The Status Monitor LED lights up.
2. After 30 seconds, the LED starts flashing;
the system is now armed.
3. The tail and marker lights flash twice.
The buzzer chirps twice.
The interior lights turn on for thirty seconds.
The driver door unlocks.
The Status Monitor LED stops flashing.
4. The tail and marker lights flash twice.
The buzzer chirps twice.
All remaining doors unlock.
5. The doors automatically relock.
The system automatically starts the arming process.
6. Refer to step number 3.
7. The buzzer sounds continuously for 5 seconds.
8. The buzzer stops sounding.



Section III - Functional Verifications

Check:

Press and release the remote control panic button to trigger the panic alarm.

Press and release the remote control panic button again to stop the panic alarm.

Sit in the driver seat and make sure all doors are closed.

Insert the key into the ignition switch and turn it to ON.

Roll down all the windows.

Turn the key back to LOCK.

Remove the key and exit the vehicle.

Insert the key into the driver door key cylinder and turn it toward the front of the vehicle to start the arming process.

Wait 30 seconds.

Reach inside and manually unlock the driver door

Look For:

9. The horn sounds repeatedly.
The interior lights turn on.
The headlights flash repeatedly.
The tail and marker lights flash repeatedly.
The LED lights up.

10. The horn stops sounding.
All the lights stop flashing and/ or turn off.

11. All doors lock.

12. All doors unlock.

13. All doors lock.
The LED lights up.

14. After 30 seconds, the LED starts flashing;
the system is now armed.

15. The driver door automatically relocks.
The horn sounds repeatedly.
The interior lights turn on.
The headlights flash repeatedly.
The tail and marker lights flash repeatedly.
The LED lights up.



Section III - Functional Verifications

Check:

- Manually unlock the driver's door again and *hold it unlocked*, open the door, then sit in the driver's seat.

- Insert the key into the ignition switch and turn it to **START** to stop the alarm.

Turn the key back to **LOCK, remove it, and then exit the vehicle.**

- With the door open, press the lock switch on the door to lock the doors, then close the door to start the system's arming process.

- Wait 30 seconds.

- Reach inside and manually unlock the front passenger's door to trigger an alarm.

Look For:

- 16. The driver's door lock attempts to lock repeatedly.
The horn continues to sound repeatedly.
The interior lights remain on.
The headlights, tail lights and marker lights continue flashing.
The LED remains on.

- 17. The horn stops sounding.
All the lights stop flashing and/ or turn off.
The Status Monitor LED turns off.
The starter cranks and the engine starts.

- 18. All doors lock.
The Status Monitor's LED lights up.

- 19. After 30 seconds, the LED starts flashing; the system is now armed.

- 20. The front passenger's door automatically relocks.
The horn sounds repeatedly.
The interior lights turn on.
The headlights flash repeatedly.
The tail and marker lights flash repeatedly.
The LED lights up.



Section III - Functional Verifications

Check:

- Press and release the remote control's unlock button to stop the alarm.

- Press and release the remote control's lock button to start the system's arming process, then wait 30 seconds until the system is armed.

- Unlock and open one of the rear passenger doors to trigger an alarm.

- Repeat the above steps with the other rear passenger and back door (if equipped).

Roll up all windows, remove the key and exit the vehicle.

- Press and release the remote control's lock button to start the system's arming process.

- Wait 30 seconds.

Perform the following check in a temperature-controlled environment (50° - 90° F.)

- With moderate force, tap the center of the driver's doorwindow with the tip of a key to trigger the warn away alarm.

Look For:

- 21. The horn stops sounding.
All the lights stop flashing and/ or turn off.
The Status Monitor's LED turns off.

- 22. Refer to step number 1 and number 2.

- 23. Refer to step number 9.

- 24. Refer to step number 22 and 23.

- 25. Refer to step number 1.

- 26. After 30 seconds, LED starts flashing; the system is now armed.

- 27. The horn sounds repeatedly.
The headlights flash repeatedly.
The tail and marker lights flash repeatedly.
The LED lights up.



Section III - Functional Verifications

Check: _____

- Insert the key into the driver's door key cylinder and turn it toward the back of the vehicle to stop the alarm.

Look For: _____

NOTE: Adjust as necessary by increasing the GBS setting to the next level if the alarm does not trigger during the functional verifications.

NOTE: If you do not disarm the system, the alarm will last 20 seconds. *It is not necessary to check the alarm duration.*

- 28. The horn stops sounding.
 - All the lights stop flashing and/or turn off.
 - The status monitor's LED turns off.

Vehicle Function Checks

- Perform standard electrical system function checks.

Confirm electrical system is functioning correctly.