

Part Number: 08586-3T950

NOTE: Part number of this accessory may not be the same as the part number shown.

Kit Contents

Item #	Quantity Req'd.	Description
1	1	Wire Harness
2	1	RES ECU
3	1	BUS ECU
4	1	ECU Mounting Bracket (A)
5	1	ECU Mounting Bracket (B)
6	1	Butyl Tape

Torque Wrench (for battery)	36 in.-lbf, 66 in.-lbf
Utility Knife	
Tape	Clear
Pliers	
Felt Tip Pin	Sharpie
Special Chemicals	Notes
Cleaner	VDC Approved Cleaner
Glass Cleaner	Household Windex

Hardware Bag Contents

Item #	Quantity Req'd.	Description
1	1	Splicing Connector
2	4	Nut
3	8	Foam Tapes
4	30	Wire Ties
5	2	Window Labels
6	2	Key Tag
7	1	Shift Tag
8	2	Key Label (For Remote Control Key)
9	1	Caution Label (For Engine Compartment)
10	1	Owner's Guide

General Applicability

Note: Camry with Non-Smart Key, and automatic transmission only.

Recommended Sequence of Application

Item #	Accessory	
1	V4/V2/V5	Security
2	Satellite Radio	

*Mandatory

Vehicle Service Parts (may be required for reassembly)

Item #	Quantity Req'd.	Description

Additional Items Required For Installation

Item #	Quantity Req'd.	Description
1	1	Hood Switch Kit (08586-42830)* *Req'd for all vehicles without OE Security (TDS).
1	1	Electrical Tape


Conflicts


Note: Must not be installed into vehicles without factory RKE or vehicles with manual transmission.


Recommended Tools


Personal & Vehicle Protection	Notes
Safety Glasses	
Safety Gloves	(Optional)
Vehicle Protection	Blankets, Part Boxes
Special Tools	Notes
Wiring Terminal Tool	IADS #: ALL 02-016-03
Wire Routing Tool	
Installation Tools	Notes
Phillips Head Screwdriver	#2, Jewelers
Flatblade Head Screwdriver	Jewelers
Socket	10mm, extension
Nylon Panel Removal Tool	e.g. Panel Pry Tool #1 Toyota SST # 00002-06001-01
Side Cutters	
Pick	


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.

 **CAUTION:** A process that must be carefully observed in order to reduce the risk of damage to the accessory/vehicle and to ensure a quality installation.

 **TOOLS & EQUIPMENT:** Used in Figures calls out the specific tools and equipment recommended for this process.

 **REVISION MARK:** This mark highlights a change in installation with respect to previous issue.

IMPORTANT NOTE:

All vehicles with factory security (TDS) that have a hood switch, and do not need part number 08586-42830 do not use Section A. After vehicle disassembly, please go to Section B.

All vehicles without factory security (TDS) use the installation instructions in both Section A and Section B, and also requires a hood switch kit: 08586-42830.

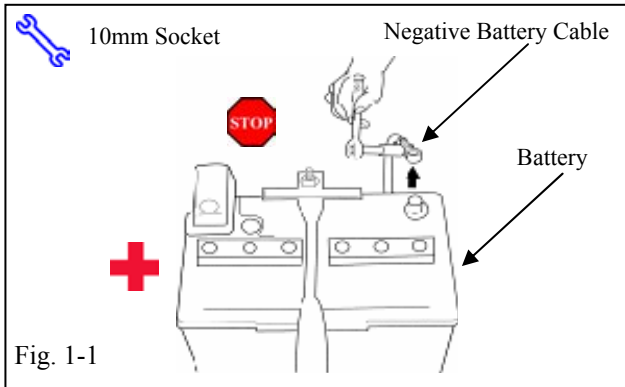
Care must be taken when installing this accessory to ensure damage does not occur to the vehicle. The installation of this accessory should follow approved guidelines to ensure a quality installation.

These guidelines can be found in the "Accessory Installation Practices" document.

This document covers such items as:-

- Vehicle Protection (use of covers and blankets, cleaning chemicals, etc.).
- Safety (eye protection, rechecking torque procedure, etc.).
- Vehicle Disassembly/Reassembly (panel removal, part storage, etc.).
- Electrical Component Disassembly/Reassembly (battery disconnection, connector removal, etc.).

Please see your Toyota dealer for a copy of this document.

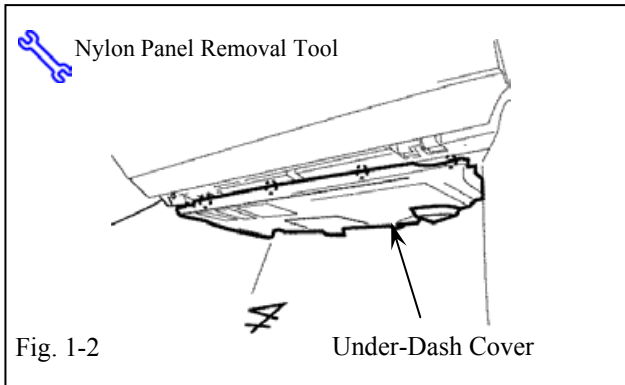


1. Vehicle Disassembly.

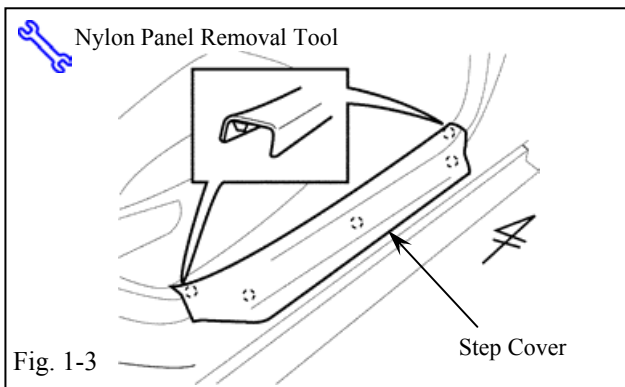
- (a) Place the Vehicle in Park and set the Parking brake.
- (b) Remove the Negative battery cable.
(Fig. 1-1)
 - (1) Protect the Fender before starting.
 - (2) Note the Battery cable position, as it will be re-installed in the same position.



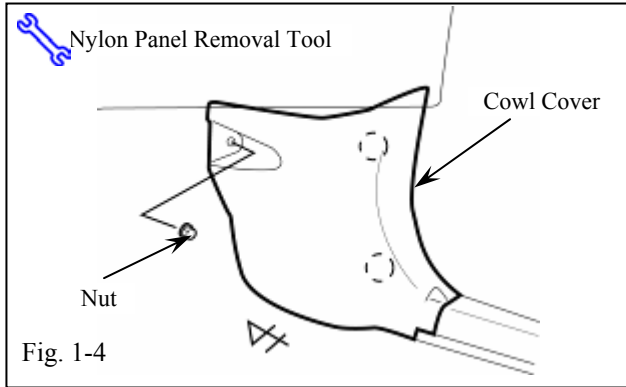
CAUTION: Do not touch the positive battery terminal.



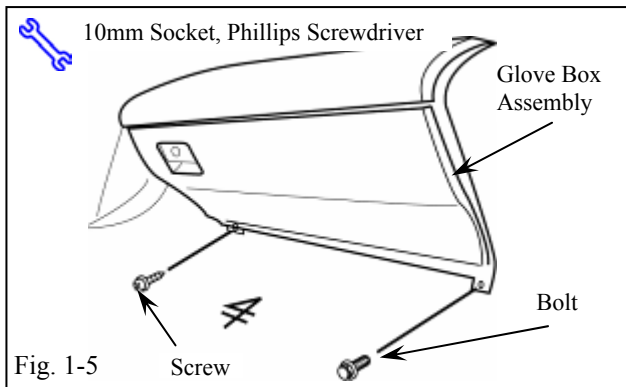
- (c) Remove the Glove box under dash cover.
(Fig. 1-2)



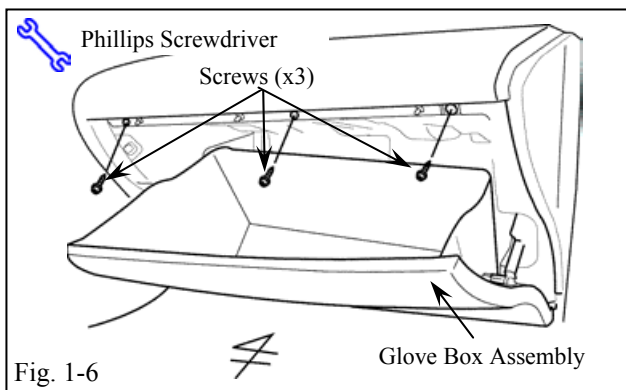
- (d) Remove the Passenger's step cover.
(Fig. 1-3)



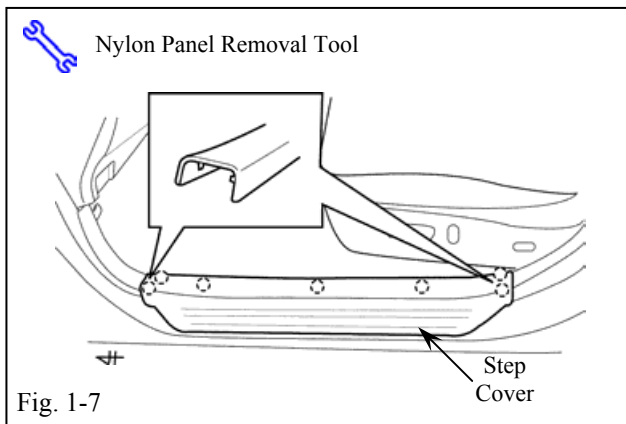
- (e) Remove the Passenger's cowl cover. (Fig. 1-4)
 - (1) Remove 1 Nut.



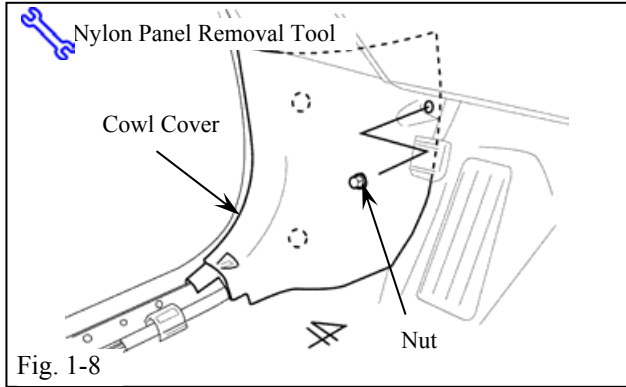
- (f) Remove 1 Screw and 1 Bolt from the Glove box assembly. (Fig. 1-5)



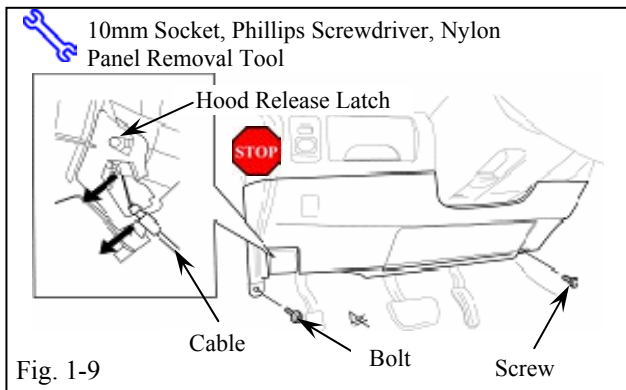
- (g) Remove the Glove box assembly. (Fig. 1-6)
 - (1) Remove 3 screws.
 - (2) Disconnect any Connectors.



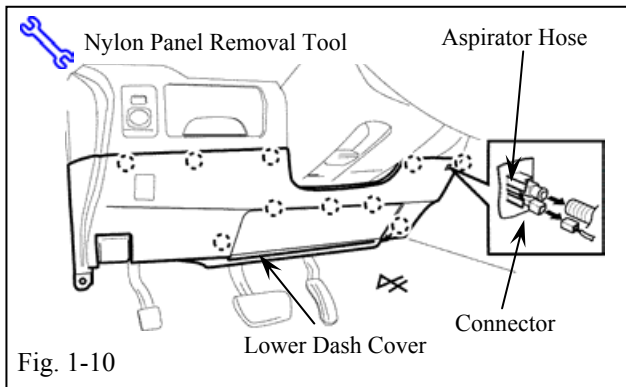
- (h) Remove the Driver's step cover. (Fig. 1-7)



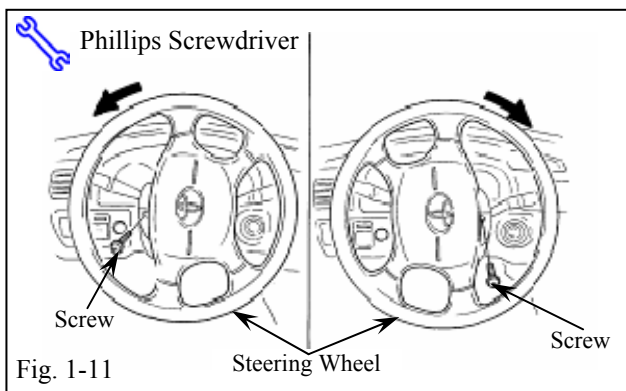
- (i) Remove the Driver's cowl cover. (Fig. 1-8)
 - (1) Remove 1 Nut.



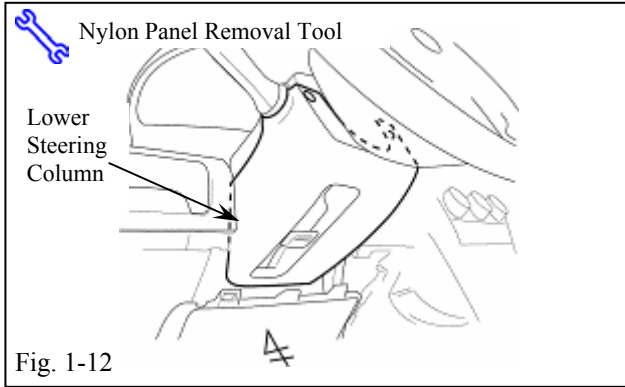
- (j) Loosen the Lower dash Cover. (Fig. 1-9)
 - (1) Remove 1 Screw and 1 Bolt.
- (k) Remove the Hood release cable. (Fig. 1-9)
 - (1) Do not bend the Hood release cable.



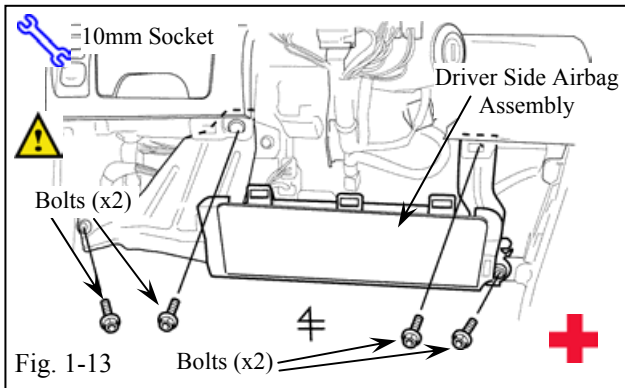
- (l) Remove the Lower dash cover. (Fig. 1-10)
 - (1) Disconnect any connectors.



- (m) Remove 2 Screws located behind the Steering wheel(Fig. 1-11)
 - (1) Insert the Key into the Ignition switch and turn it to ON. Turn the Steering wheel left or right to gain access to the Screws.



- (n) Remove the Lower steering column cover. (Fig. 1-12)



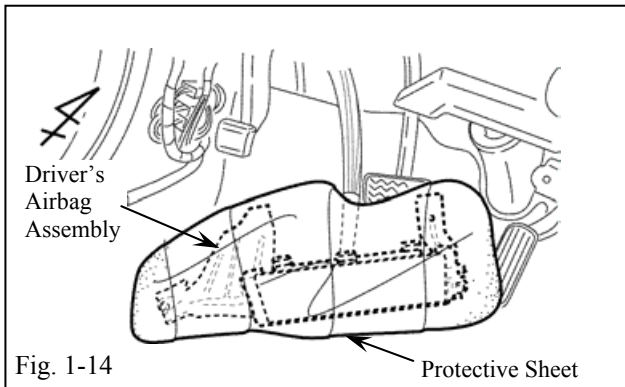
- (o) Remove the Driver side airbag assembly. (Fig. 1-13)

- (1) Remove 4 Bolts.

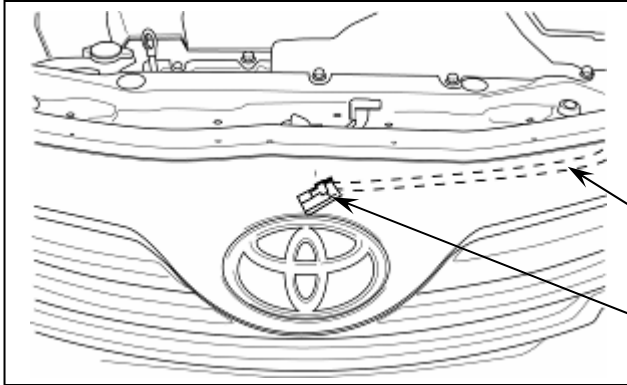


CAUTION: Sharp metal edges.

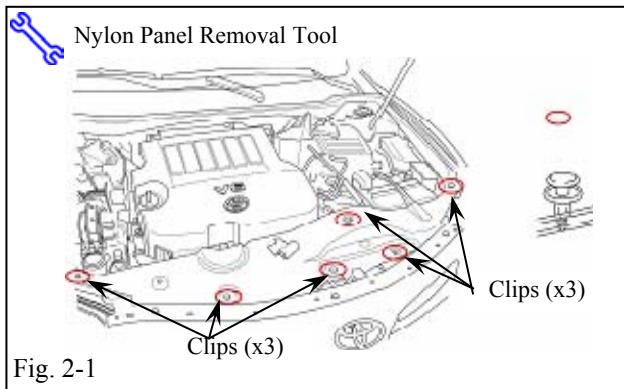
- (2) Do not disconnect the Airbag assembly.



- (p) Wrap the Airbag assembly in a Blanket and place it on the V4 Kit Box. (Fig. 1-14)

<p>Vehicle Grade</p>	<p>Confirm by the following description. Perform Vehicle Disassembly first:</p>
<p>XLE</p>	<p>Hood Switch Kit and Engine Compartment instructions not needed. Section A installation not needed. Go to Section B. Start with page 14.</p>
<p>SE</p>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p>[1] Confirm factory alarm equipped in the vehicle.</p> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Vehicle with Factory Alarm</p> </div> <div style="width: 45%;"> <p>Vehicle <u>without</u> Factory Alarm</p> </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div style="width: 45%; border: 1px solid black; padding: 5px;"> <p>[2] Does not need Engine Compartment Installation. <u>Section A installation not needed. Go to Section B. Start with page 14.</u></p> </div> <div style="width: 45%; border: 1px solid black; padding: 5px;"> <p>[2] You must install Hood Switch. <u>Go to Section A. Start with page 7.</u></p> </div> </div>
<p>LE</p>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p>[1] To confirm vehicle pre-wire for hood switch in the engine compartment.</p> </div> <div style="text-align: center; margin-bottom: 10px;">  </div> <div style="display: flex; justify-content: space-between; margin-bottom: 10px;"> <div style="width: 45%;"> <p>Pre-wire exists:</p> </div> <div style="width: 45%;"> <p>Pre-wire does not exist:</p> </div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%; border: 1px solid black; padding: 5px;"> <p>[2] You must install Hood Switch. <u>Go to Section A. Start with page 7.</u></p> </div> <div style="width: 45%; border: 1px solid black; padding: 5px;"> <p>[3] You must install both Hood Switch and Hood Switch Wire Harness. <u>Go to Section A. Start with page 7.</u></p> </div> </div>

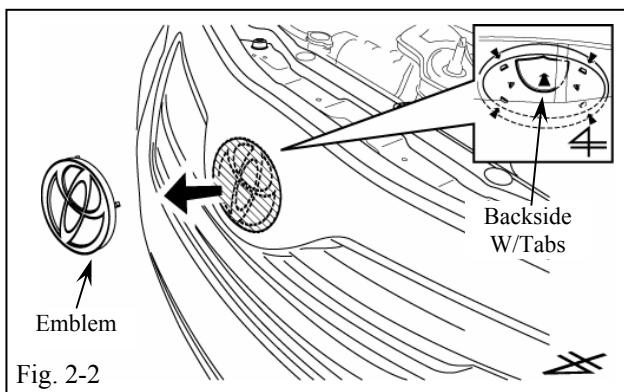
Section A: Hood Switch Installation



2. Hood Latch Removal

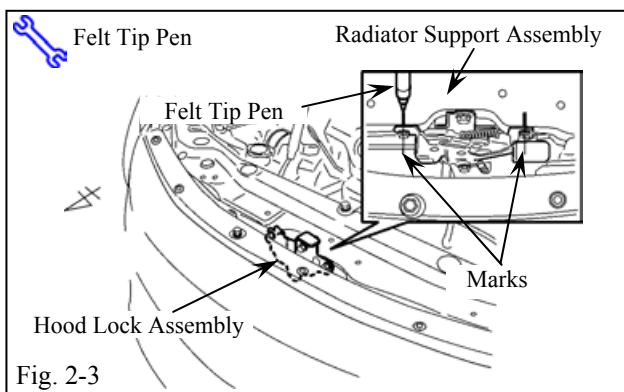
(a) Remove the Radiator support cover.
(Fig. 2-1)

(1) Remove 6 Clips.

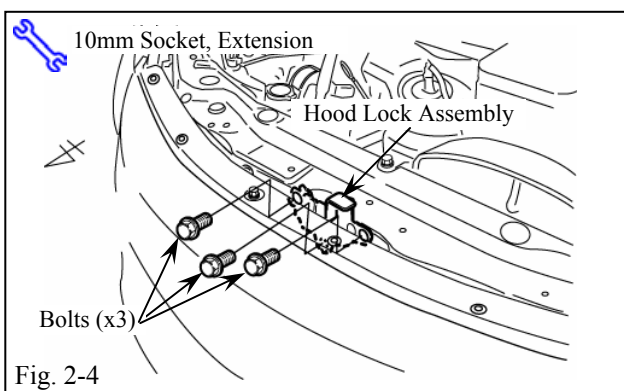


(b) Remove the Emblem from the front of the Vehicle. (Fig. 2-2)

(1) Push in on the Emblem tabs, on the backside of the Emblem

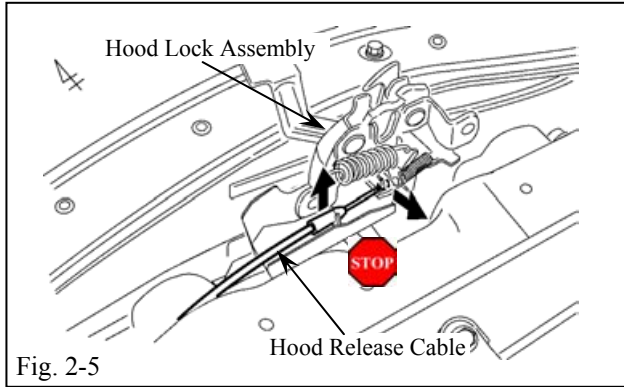


(c) Using a Felt Tip Pen, mark the Radiator support assembly and Hood lock assembly as shown. (Fig. 2-3)



(d) Remove the Hood lock assembly.
(Fig. 2-4)

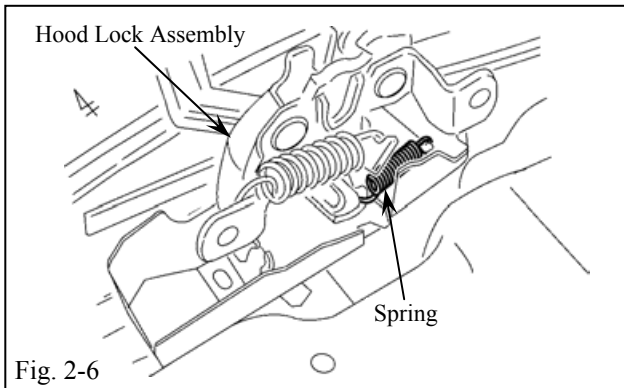
(1) Remove 3 Bolts.



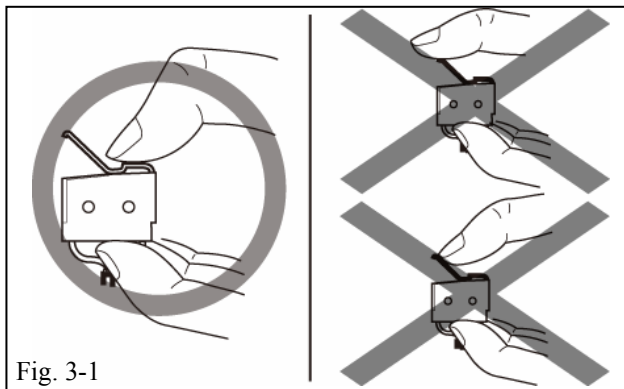
(e) Remove the Hood release cable from the Hood lock assembly. (Fig. 2-5)



(1) Do not bend the Hood Release Cable.



(f) Remove the Spring from the Hood lock assembly. (Fig. 2-6)



3. Hood Switch and Hood Switch Harness Installation.

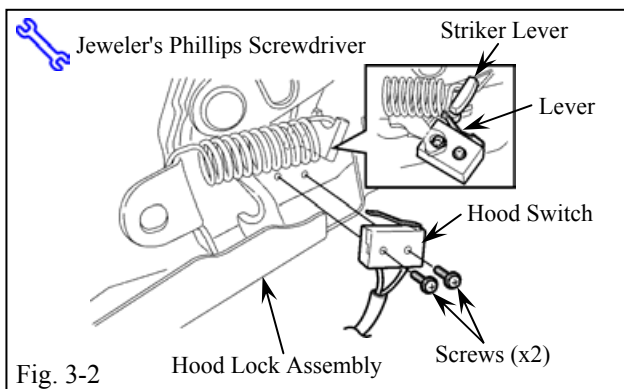
(a) Grasp and hold the Hood Switch vertically across its body. (Fig. 3-1)



(1) Do not hold or press down the Hood Switch Plate by its top part or by its sloped part.



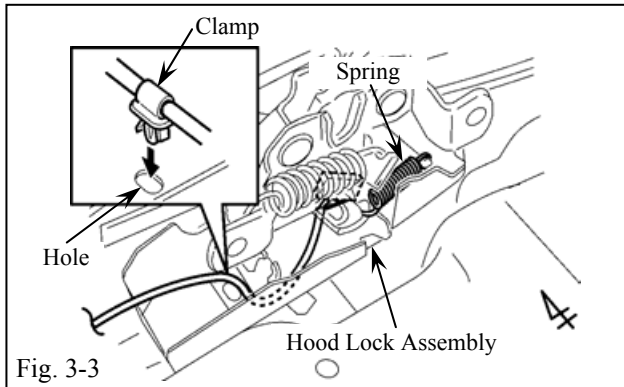
(2) If the hood switch is broken or deformed, the remote engine starter will not function.



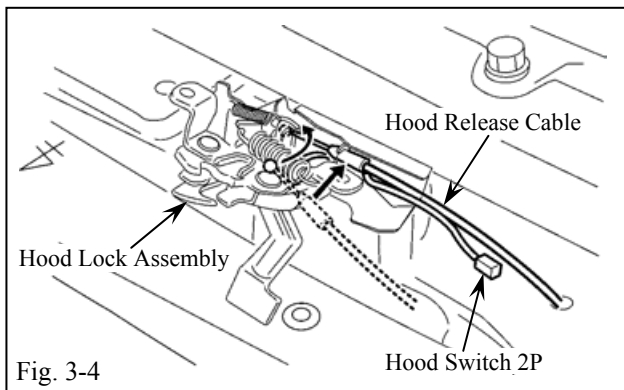
(b) Install the Hood Switch to the Hood lock assembly with 2 Screws. (Fig. 3-2)



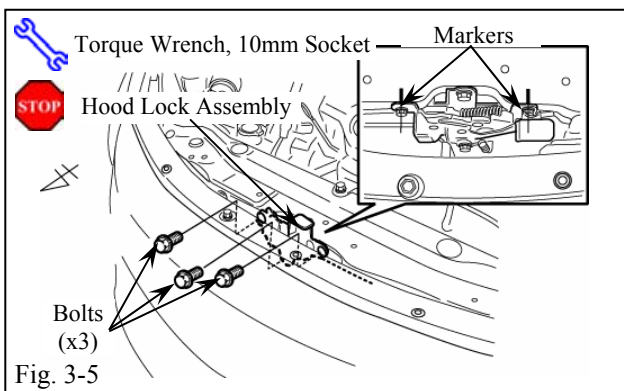
(1) Put the Hood Switch Lever on the bottom of the Hood lock striker lever.



- (c) Refit the Spring to the Hood lock assembly. (Fig. 3-3)
- (d) Secure the Hood Switch Harness Clamp into the Hole of the Hood lock assembly. (Fig. 3-3)

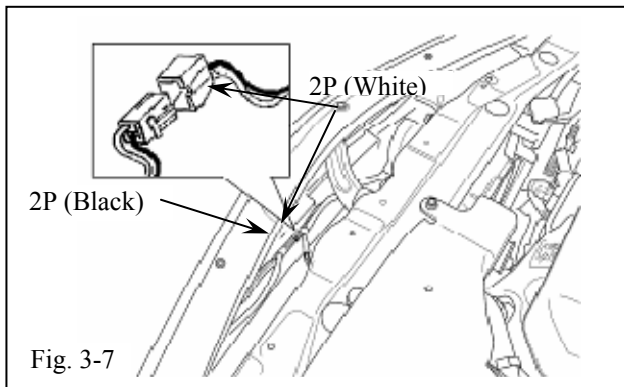
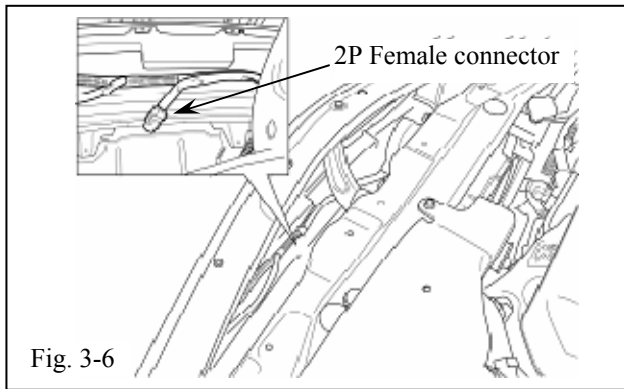


- (e) Refit the Hood release cable to the Hood lock assembly. (Fig. 3-4)



- (f) Temporarily install the Hood lock assembly. Position the Hood lock assembly to the Radiator support assembly by aligning marks made in Fig. 2-3. (Fig. 3-5)
- (1) Tighten the 3 bolts to 66.4 in•lbf ± 1.5 (7.5n•m ± 1.5).

HOOD SWITCH CONNECTION (for Vehicles with Pre-wire) (Steps g-h)

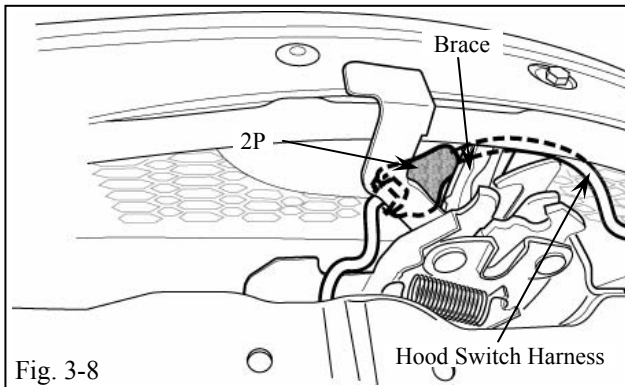


(g) Locate the Female black 2P connector below the radiator support member, then remove the tape securing the Vehicle harness' black 2P connector. (Fig. 3-6)

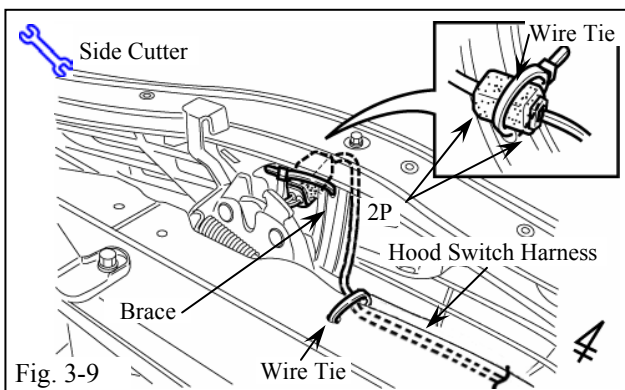
(h) Connect the Hood Switch's White 2P Connector to the Vehicle's harness' black 2P connector. (Fig. 3-7)

(1) Verify the connectors are plugged in securely.

Hood Switch Harness Routing (for Vehicles without Pre-wire) (Steps i-t)

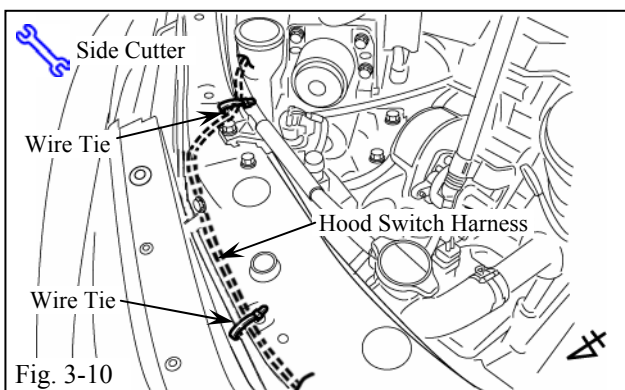


- (i) Route the Hood Switch Harness behind the Brace, then connect the Hood Switch's 2P Connector to the Hood Switch Harness' 2P Connector. (Fig. 3-8)

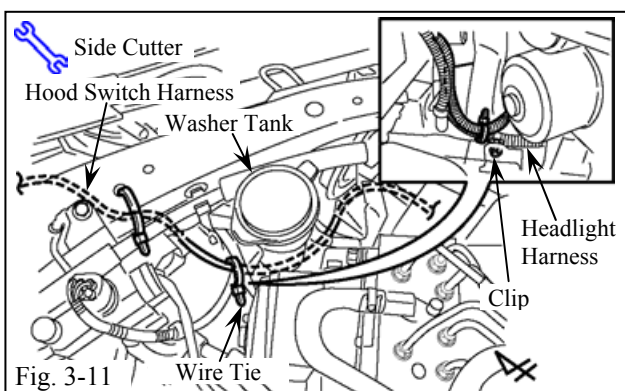


- (j) Secure the 2P Connector to the Hole of the Brace with 1 Wire Tie. (Fig. 3-9)

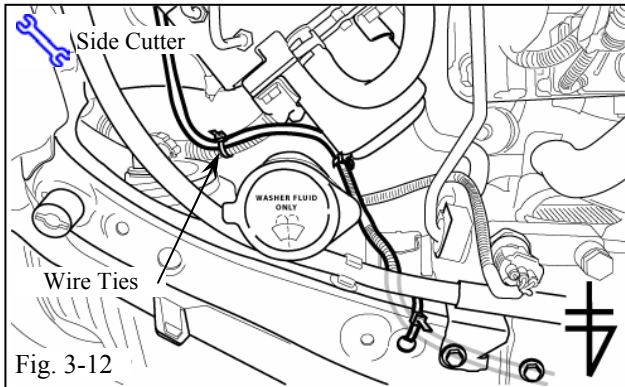
- (k) Route the Hood Switch Harness along the underside of the Radiator support assembly and toward the passenger side. Secure it to the Hole of the Radiator support assembly with 1 Wire Tie. (Fig. 3-9)



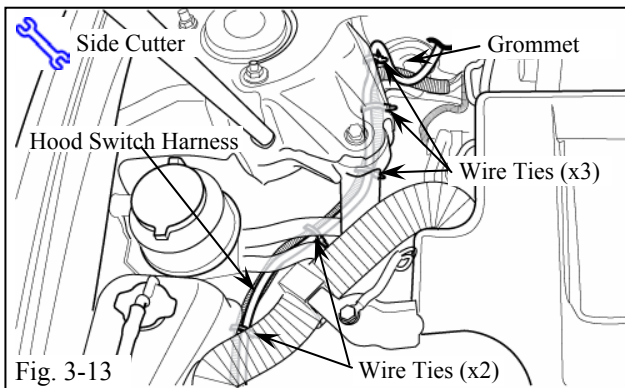
- (l) Secure the Hood Switch Harness to the Holes in the Radiator support assembly with 2 Wire Ties. (Fig. 3-10)



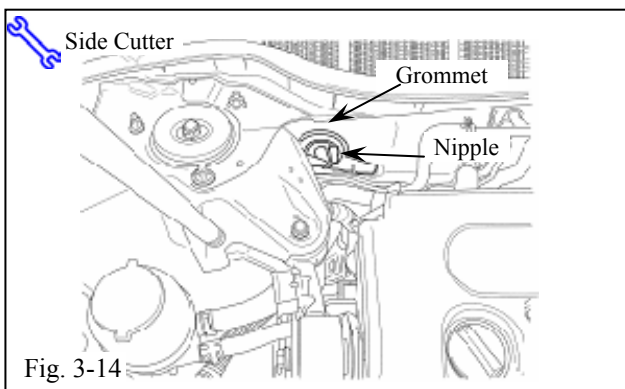
- (m) Route the Hood Switch Harness toward the Passenger side fender area, then secure it to the Vehicle harness clamp (Headlight Harness) near the ABS actuator with 1 Wire Tie. (Fig. 3-11)



- (n) Route the Hood Switch Harness towards the Firewall. Secure the Harness to the Vehicle Harness with 1 Wire Tie. (Fig. 3-12)

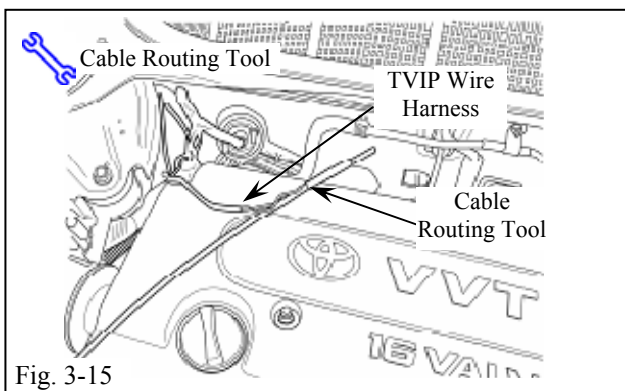


- (o) Locate the grommet in the Passenger side engine compartment area. Route the Hood Switch Harness towards the Grommet securing it with 5 Wire Ties. (Fig. 3-13)



- (p) Cut the tip of the Grommet nipple off. (Fig. 3-14)

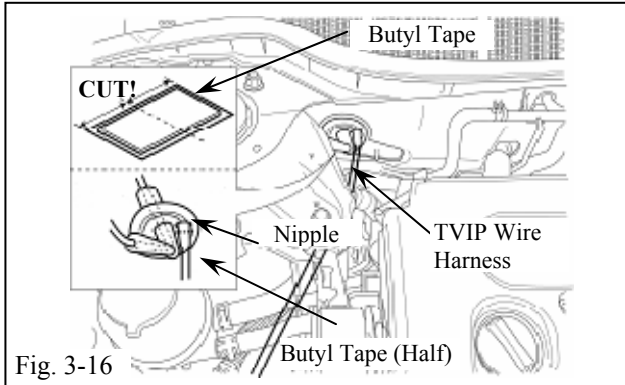
(1) Do not cut the Vehicle harness.



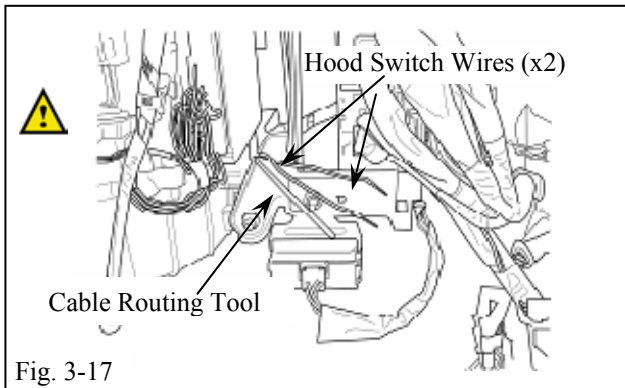
- (q) Secure the Hood Switch Harness to Cable Wire Routing Tool with Electrical Tape. (Fig. 3-15)

- (r) Feed the Hood Switch Harness through the Hole in the Grommet nipple.

(1) Do not pull the Hood Switch Harness Shielding into the Grommet.



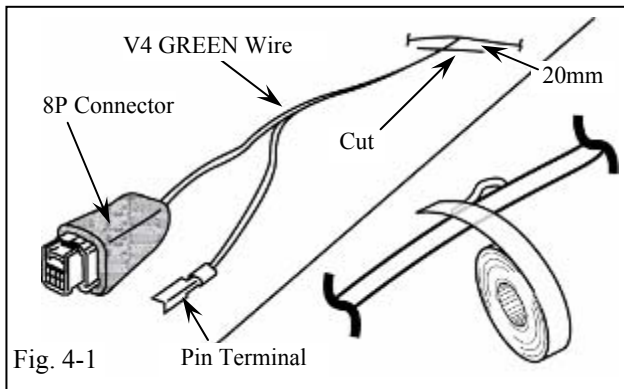
- (s) Using ½ piece of Butyl Tape seal the Grommet nipple and Hood Switch Harness. (Fig. 3-16)



- (t) Remove the electrical tape and Cable Wire Routing Tool. (Fig. 3-17)

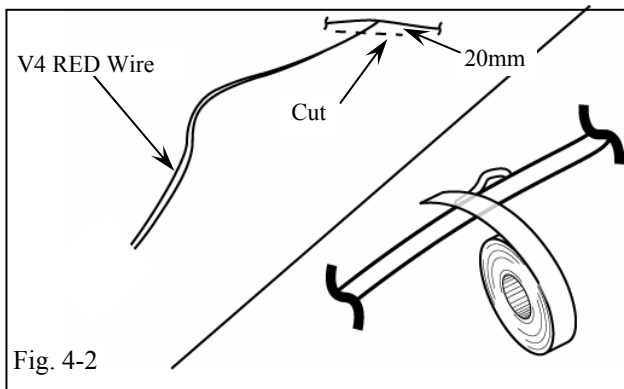
CAUTION: Avoid damaging the Pin Terminals

Section B: RES Installation.



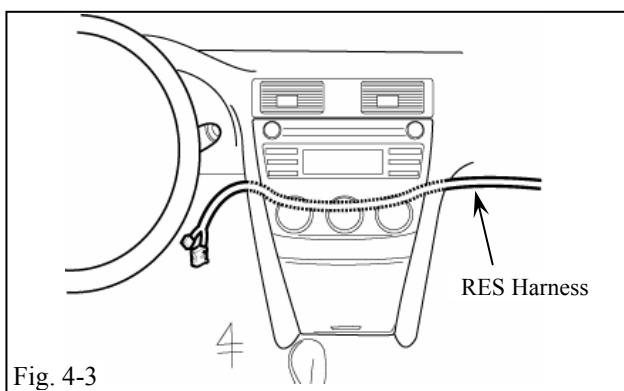
4. V4 Harness Preparation.

- (a) Locate the V4 GREEN Wire with BLACK 8P Connector and Pin Terminal. (Fig. 4-1)
- (b) Cut the GREEN Wire 20mm from where it branches off of the V4 Harness. (Fig. 4-1)
 - (1) Discard the Green Wire with Connector and Pin Terminal attached.
- (c) Use Electrical Tape to secure the end of the GREEN Wire to the V4 Harness. (Fig. 4-1)
 - (1) Verify that the Green Wire is properly insulated to avoid the possibility of short in the circuit.

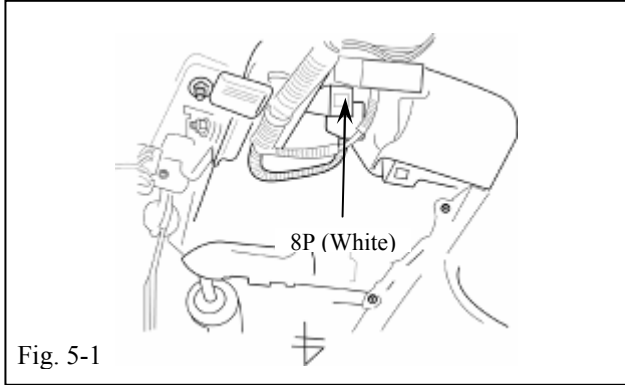


FOR VEHICLES WITHOUT HOOD SWITCH PRE-WIRE ONLY (Steps d-f)

- (d) Locate the V4 RED Wire. (Fig. 4-2)
- (e) Cut the RED Wire 20mm from where it branches off of the V4 Harness. (Fig. 4-2)
- (f) Use Electrical Tape to secure the end of the RED Wire to the V4 Harness. (Fig. 4-2)
 - (1) Verify that the RED Wire is properly insulated to avoid the possibility of short in the circuit.

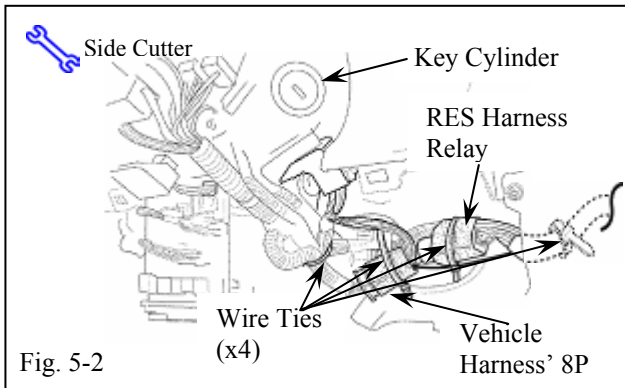


- (g) Route the portion of the V4 Harness with the Relay, Fuse, and 8P White Connector through the Center Console to the Driver's Side. (Fig. 4-3)



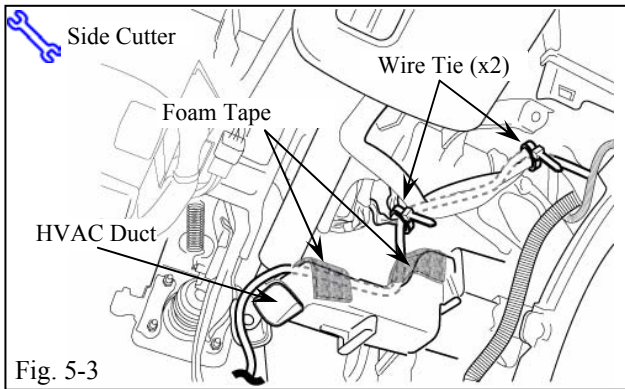
5. V4 Harness Installation (Driver's Side)

- (a) Locate and disconnect the White 8P connector from the Ignition switch area. (Fig. 5-1)
- (b) Plug in the V4 Harness' White 8P Connectors between the Vehicle harness' 8P connector and the Ignition switch. (Fig. 5-1)

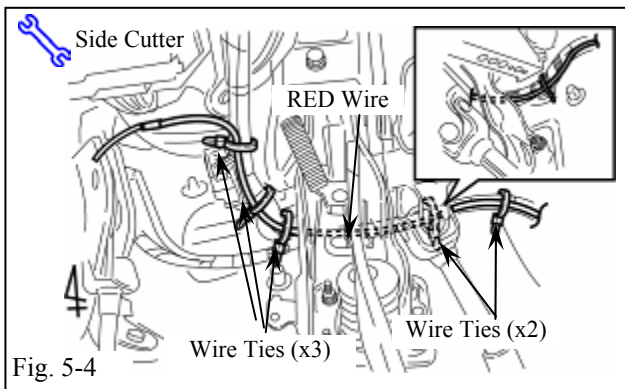


- (c) Secure the V4 Harness to the Vehicle harness with 2 Wire Tie. (Fig. 5-2)
- (d) Secure the V4 Harness, 8P Connectors, to the vehicle harness with 1 Wire Tie. (Fig. 5-2)
- (e) Secure the V4 Relay to the Vehicle harness with 1 Wire Tie. (5-2)

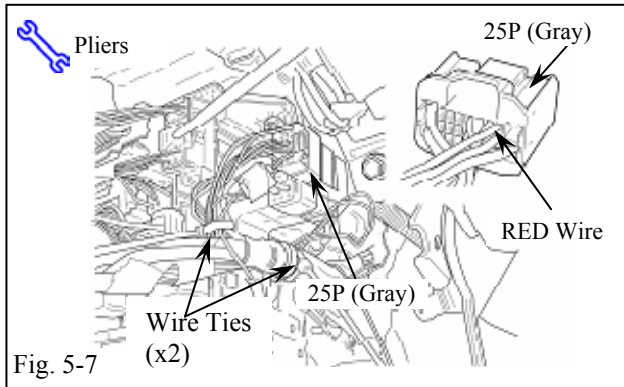
FOR VEHICLES WITH A HOOD SWITCH PRE-WIRE ONLY. (Steps f-j)



- (f) Route the V4 Harness RED Wire down along the top of the HVAC duct securing it to the Vehicle Harness with 2 Wire Ties. (Fig. 5-3)
- (g) Use two ½ pieces of Foam Tape to secure the V4 Harness to the HVAC duct. (Fig. 5-3)

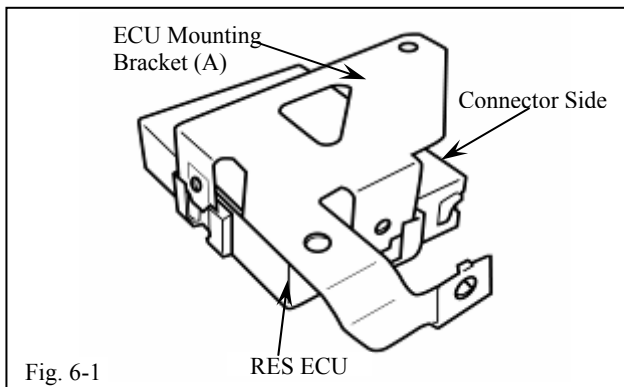


- (h) Route the V4 Harness's RED Wire behind the Steering shaft and secure to the vehicle harness with 2 Wire Ties. (Fig. 5-4)



- (i) Locate the Gray 25P connector on the right side of the Junction box. (Fig. 5-7)
- (j) Locate the Gray 25P connector's RED wire. Attach the V4 Harness' RED Wire with a Splicing Connector. Secure the V4 Wire Harness to the Vehicle harness with 2 Wire Ties. (Fig. 5-7)

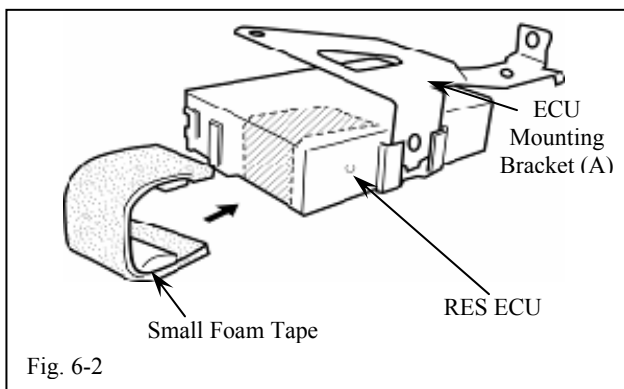
6. RES ECU and BUS ECU Preparation and Installation.



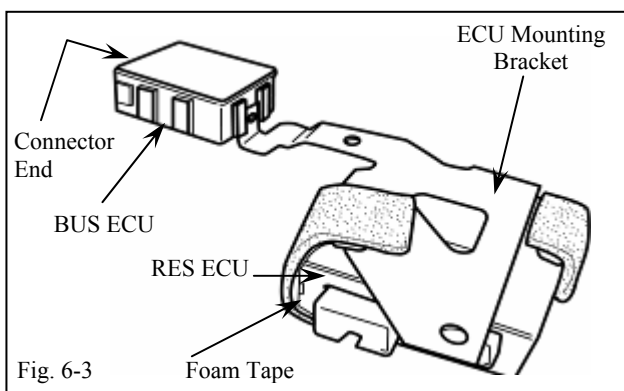
- (a) Insert the ECU Mounting Bracket (A) into the indicated bracket slots on the RES ECU. (Fig. 6-1)

CAUTION: The bracket is permanently attached once installed.

- (1) Insert the mounting bracket into the correct ECU's slot.
- (2) Ensure the bracket is firmly attached to the ECU.

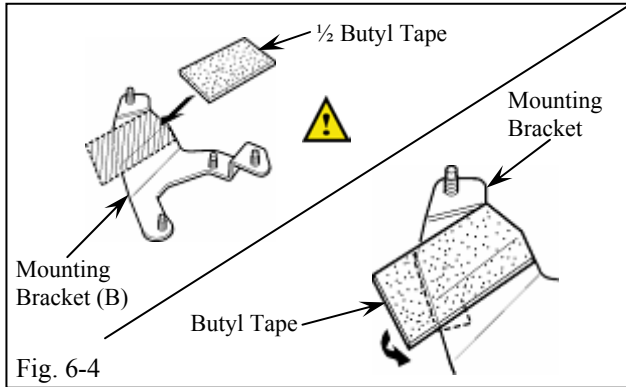


- (b) Apply 1 piece of Foam Tape to the edge of the RES ECU as shown. (Fig. 6-2)



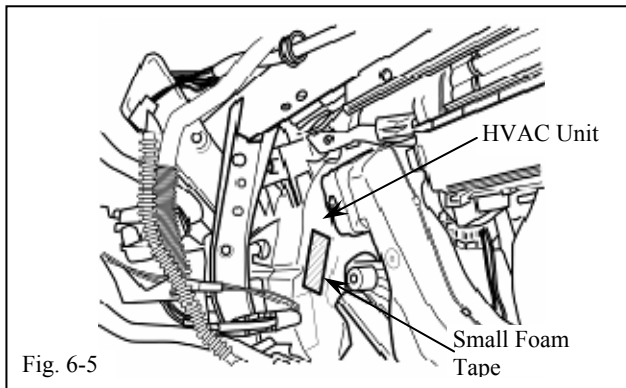
- (c) Apply 1 piece of Foam Tape to the other side of the RES ECU and Bracket, as shown. (Fig. 6-3)

- (d) Insert the BUS ECU into the indicated slot on the mounting bracket. (Fig. 6-3)

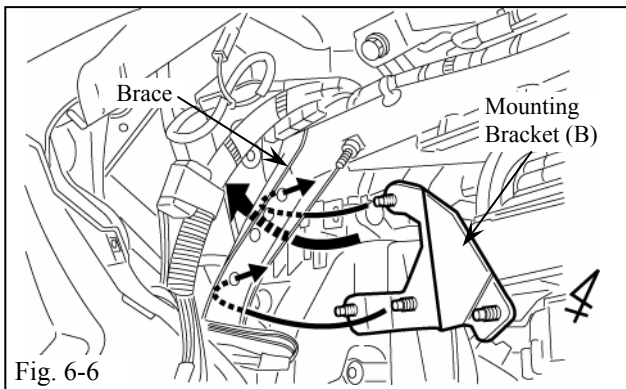


(e) Remove backing sheet of 1/2 Butyl Tape, then apply it to ECU Mounting Bracket (B). (Fig. 6-4)

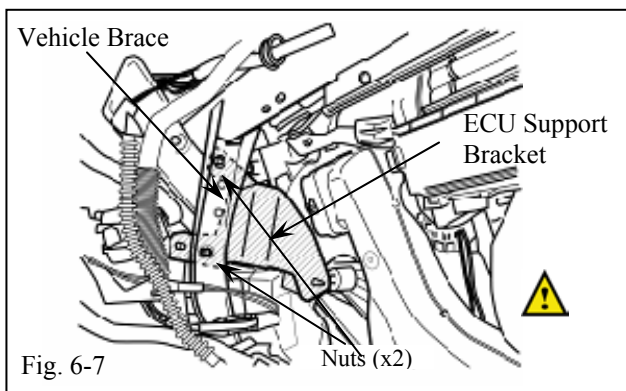
- (1) Do not touch the adhesive surface.



(f) Apply 1 piece of Foam Tape to the HVAC Center Duct. (Fig. 6-5)

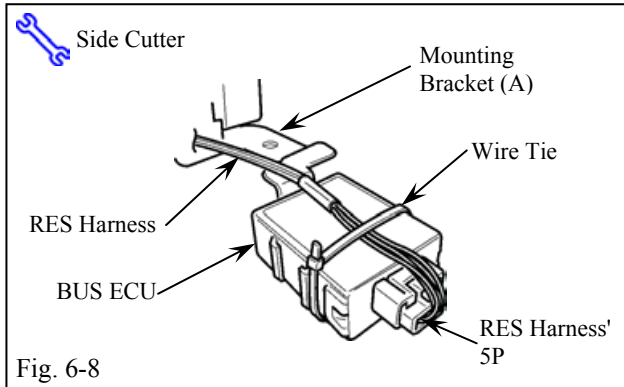


(g) Remove the Protective Sheet from the Butyl Tape. Insert the ECU Mounting Bracket (B) up behind the Vehicle Brace as shown. (Fig. 6-6)

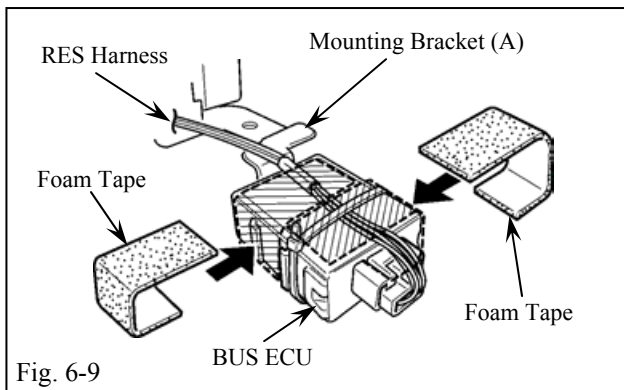


(h) Secure the ECU Mounting Bracket (B) to the vehicle brace with 2 Nuts (supplied) as shown. (Fig. 6-7)

- (1) Verify the two nuts are tightened and secured.



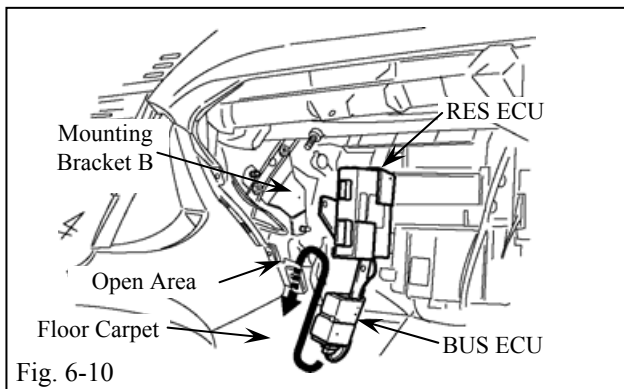
- (i) Connect the V4 Harness' White 5P Connector to the BUS ECU. (Fig. 6-8)
- (j) Use 1 Wire Tie to secure the V4 Harness to the BUS ECU. (Fig. 6-8)



- (k) Attach 2 pieces of Foam Tape to the BUS ECU as shown. (Fig. 6-9)

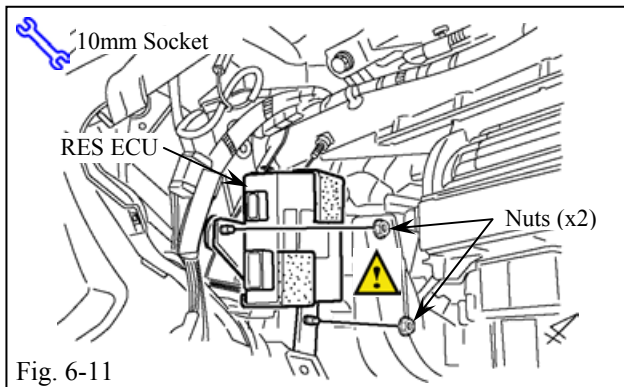


NOTE: If both V4 kit and V5 kit are being installed, install the V5 (GBS) ECU first.



- (l) Put the BUS ECU into the opening of the Floor carpet and Heater unit in the Passenger side center cluster area. (Fig. 6-10)

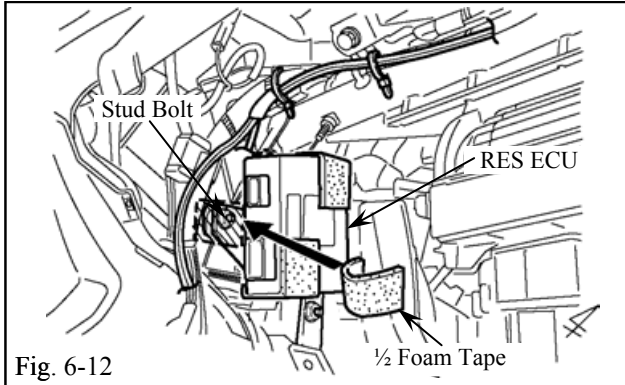
- (m) Connect the Mounting Bracket (B) to Mounting Bracket (A) using the Studs on Bracket (B). (Fig. 6-10)



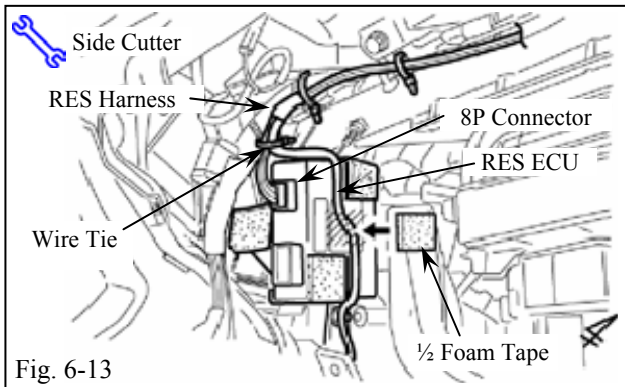
- (n) Secure Mounting Bracket (A) to Mounting Bracket (B) with 2 Nuts. (Fig. 6-11)



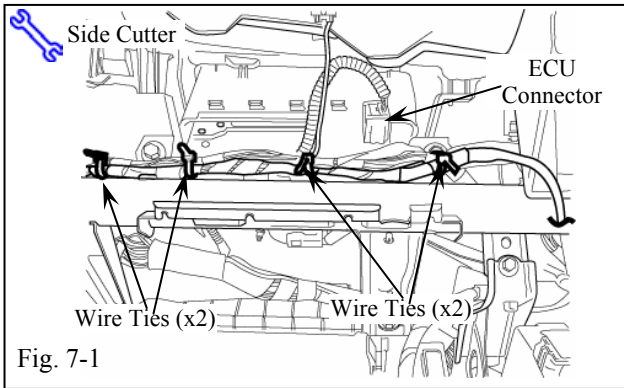
- (1) Verify that the nuts are tightened securely.



- (o) Cover the Mounting Bracket and Stud Bolt with 1/2 piece of Foam Tape. (Fig. 6-12)
 - (1) Do not discard the excess Foam Tape.

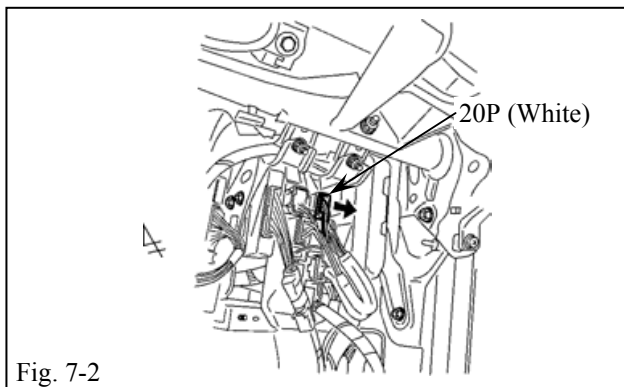


- (p) Connect the V4 Harness's 8P and 20P (not shown) Connectors to the RES ECU. (Fig. 6-13)
- (q) Secure the V4 Harness to the Vehicle harness with 1 Wire Tie. (Fig. 6-13)
- (r) Locate the V4 Harness section connected to the BUS ECU and secure it to the RES ECU with 1/2 piece of Foam Tape. (Fig. 6-13)

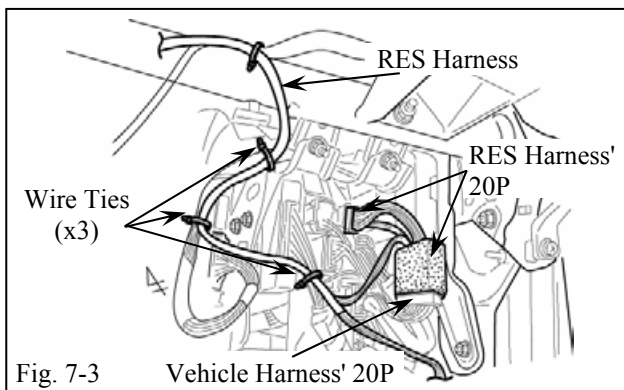


7. V4 Harness Installation (continued)

- (a) Route the V4 Harness across the Glove Box and secure to Vehicle harness with 4 Wire Ties. (Fig. 7-1)

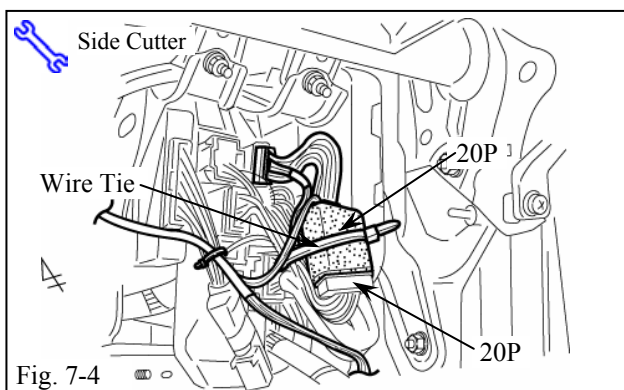


- (b) Locate and disconnect the White 20P Connector from the Connector Block in the upper right area of the Glove Box. (Fig. 7-2)

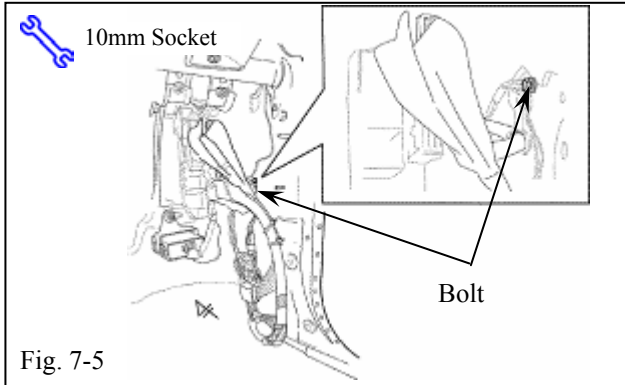


- (c) Route the V4 Harness through the Glove box area and secure it with 3 Wire Ties as shown. (Fig. 7-3)
- (d) Plug in the V4 Harness' White 20P Connectors between the Vehicle harness' 20P connector and Connector block in the Glove box area. (Fig. 7-3)

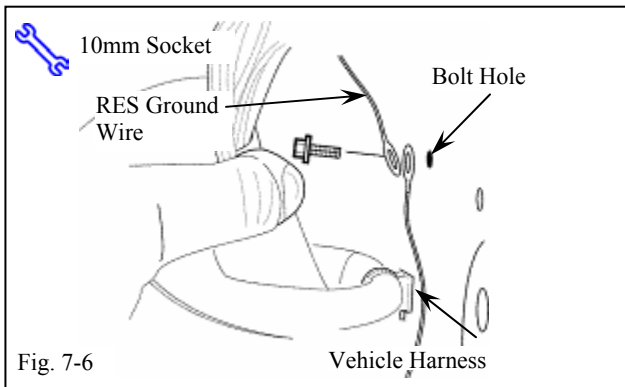
(1) Verify the Connectors are plugged in securely



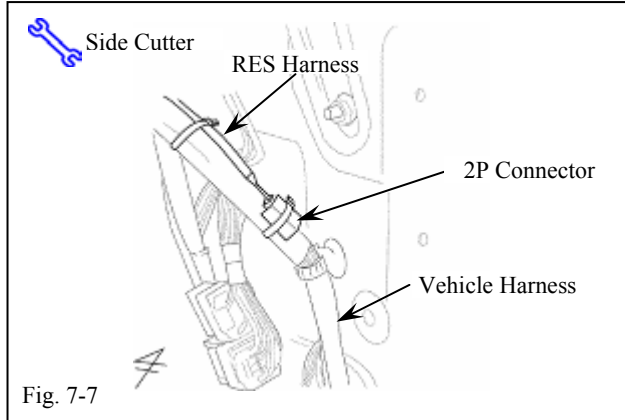
- (e) Secure the white 20P Connectors to the Vehicle Harness with 1 Wire Tie. (Fig. 7-4)



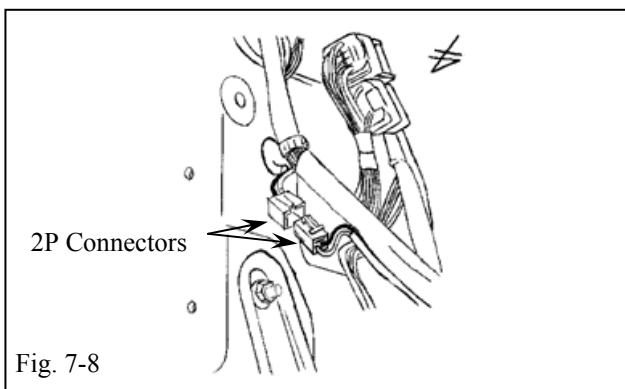
- (f) Locate and remove the Bolt from the Passenger Cowl Area. (Fig. 7-5)
 - (1) Do not discard the bolt.



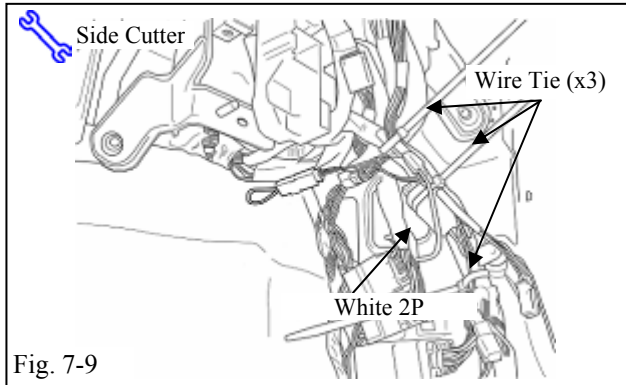
- (g) Place the V4 Harness' Ground on top of the Vehicle's Ground. Re-install the Bolt back into the hole. (Fig. 7-6)



- (h) Locate and remove the Tape securing the Vehicle Harness' White 2P Connector underneath the Ground Bolt. (Fig. 7-8)

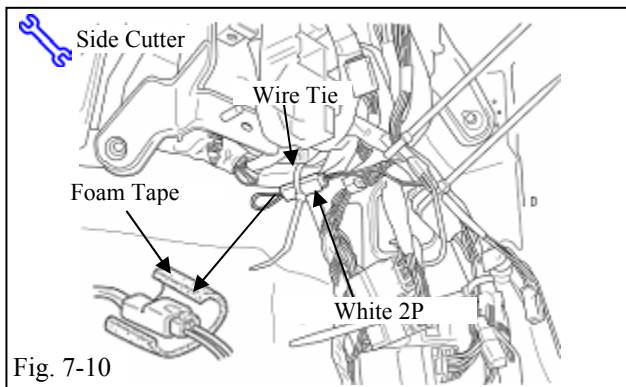


- (i) Plug in the V4 Harness' White 2P Connector to the Vehicle Harness' White 2P Connector.(Fig. 7-7)

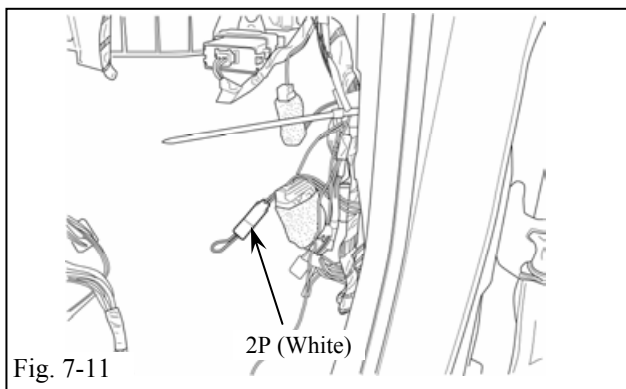


- (j) Secure the V4 Harness' 2P Connector (which is connected to the pre-connector) to the Vehicle harness with 1 Wire Tie. (Fig. 7-9)
- (k) Secure the V4 Harness to the Vehicle harness with 2 Wire Ties. (Fig. 7-9)

FOR VEHICLES WITH A FACTORY ALARM SYSTEM ONLY (Step l)

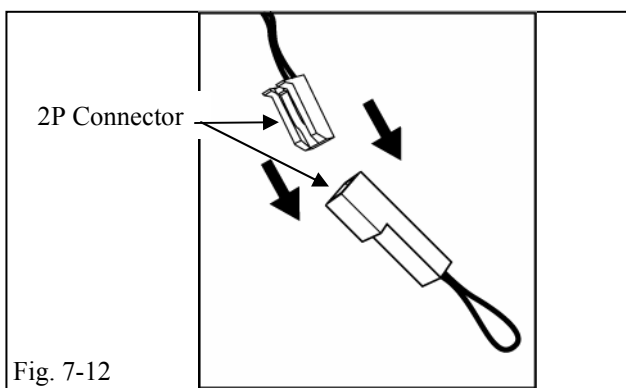


- (l) Wrap the V4 Harness' 2P Connector with 1 Foam Tape, and secure it to the Vehicle harness with 1 Wire Tie. (Fig. 7-10)

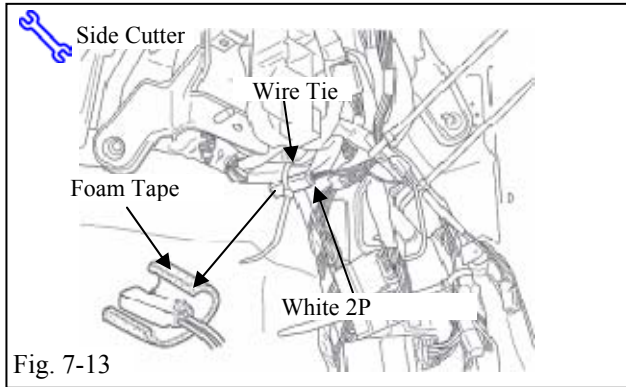


FOR VEHICLES WITH A HOOD SWITCH PRE-WIRE ONLY (Step m-o)

- (m) Locate the White 2P Connector on the V4 Wire Harness in the Passenger cowl side area. (Fig. 7-11)

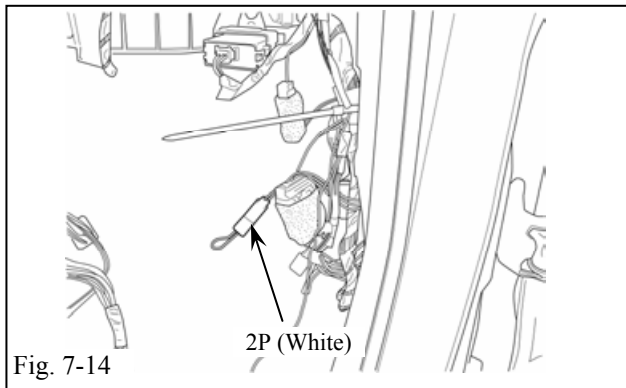


- (n) Disconnect the V4 Harness' White 2P Connector. (Fig. 7-12)
 - (1) Discard the White Male 2P Connector.



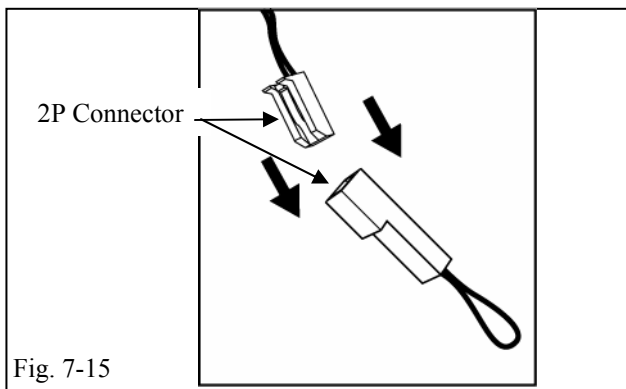
FOR VEHICLES WITH A HOOD SWITCH PRE-WIRE ONLY.

- (o) Wrap the V4 harness' 2P connector (female) with 1 Foam Tape, and secure the 2P connector to the vehicle harness with 1 Wire Tie.(Fig. 7-13)

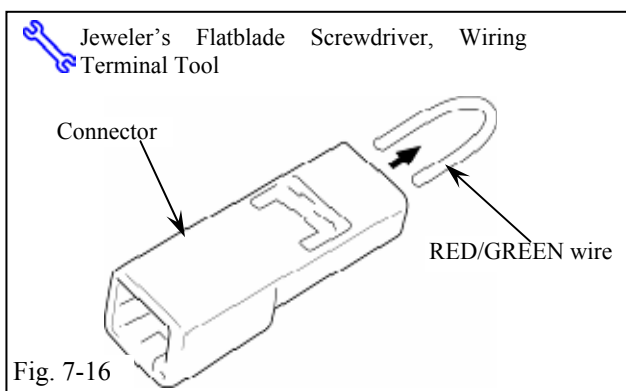


FOR VEHICLES WITHOUT A FACTORY ALARM AND WITHOUT A HOOD SWITCH PRE-WIRE ONLY. (Steps p-w)

- (p) Locate the White 2P Connector on the V4 Wire Harness in the Passenger cowl side area. (Fig. 7-14)

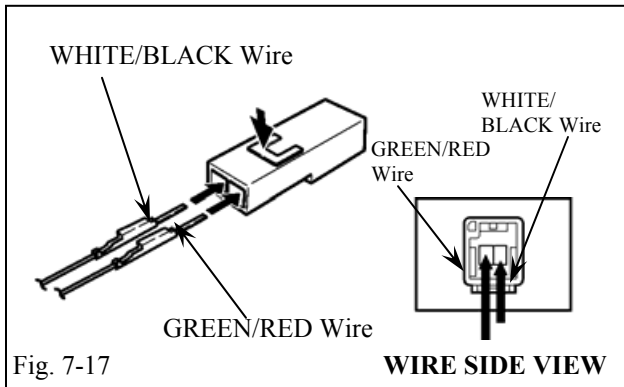


- (q) Disconnect the V4 Harness' White 2P Connector.(Fig. 7-15)



- (r) Using a Small Jeweler's Screwdriver, lift the terminal retainer on the back of the Short Cut Connector. (Fig. 7-16)
 - (1) Do not pull out the retainer.
- (s) Using a pick (or wiring terminal tool [PPO]), release and pull out the RED/GREEN wire. (Fig. 7-16)
 - (1) Discard the GREEN/RED wire.
 - (2) Do not discard the empty 2P Connector.

**FOR VEHICLES WITHOUT A FACTORY
ALARM AND WITHOUT A HOOD
SWITCH PRE-WIRE ONLY.**



- (t) Insert the terminal at the end of the Hood Switch Harness' WHITE/BLACK Wire into the empty 2P Connector. (Fig. 7-17)
 - (1) Turn the connector so the wires face you and the tab is on top.
 - (2) Verify the correct wire is chosen.



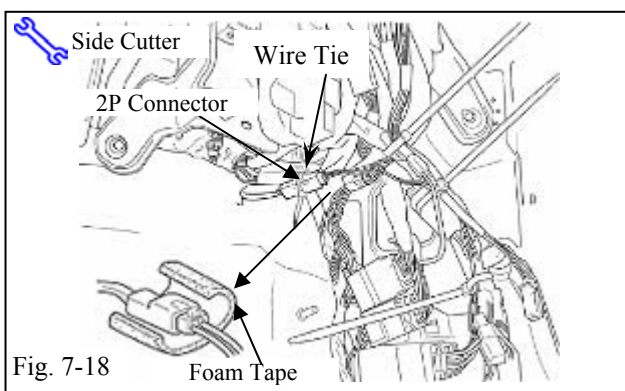
- (u) Insert the terminal at the end of the hood switch harness' GREEN/RED wire into empty 2P connector. (Fig. 7-17)
 - (1) Turn the connector so the wires face you and the tab is on top.
 - (2) Verify the correct wire is chosen.

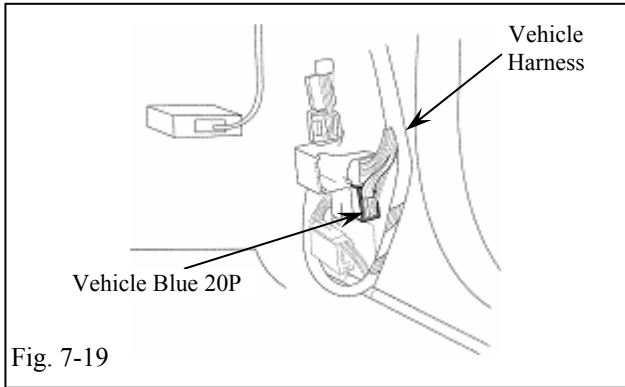


- (v) Close the retainer. (Fig. 7-17)
 - (1) The terminal should not come out when pulled lightly. If it comes out push it in further.

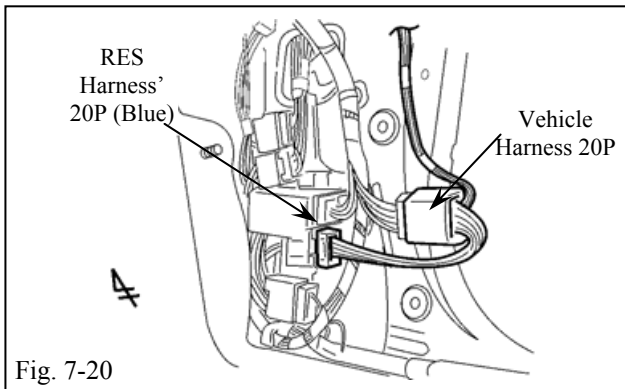


- (w) Connect the Male 2P Connector to the Female 2P Connector, and then wrap the 2P Connector with 1 Foam Tape and secure the 2P Connector to the Vehicle harness with 1 Wire Tie. (Fig. 7-18)



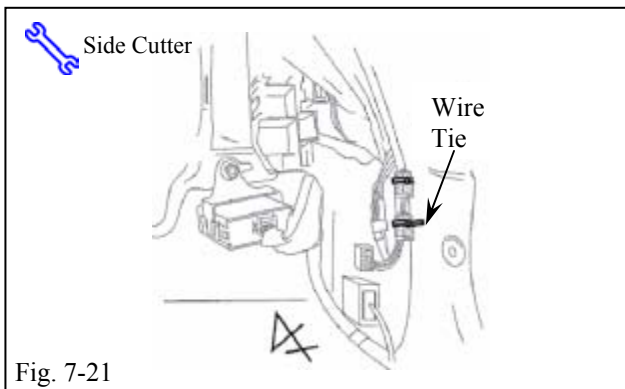


(x) Disconnect the Vehicle Harness' Blue 20P Connector. (Fig. 7-19)

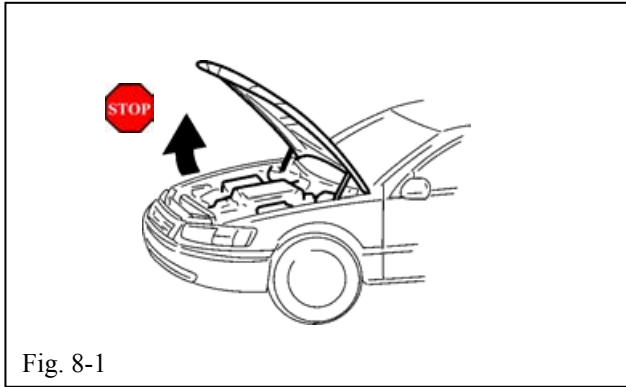


(y) Plug in the V4 Harness' BLUE 20P Connectors between the Vehicle harness' BLUE 20P connector and the Connector block. (Fig. 7-20)

NOTE: If the vehicle is equipped with V4 and V2/V5, the blue 20P connectors will need to be piggy-backed together.



(z) Secure the 20P Connector with 1 Wire Tie as shown. (Fig. 7-21)

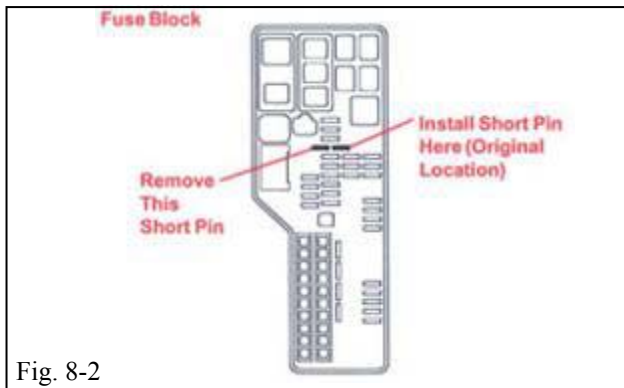


8. Registration

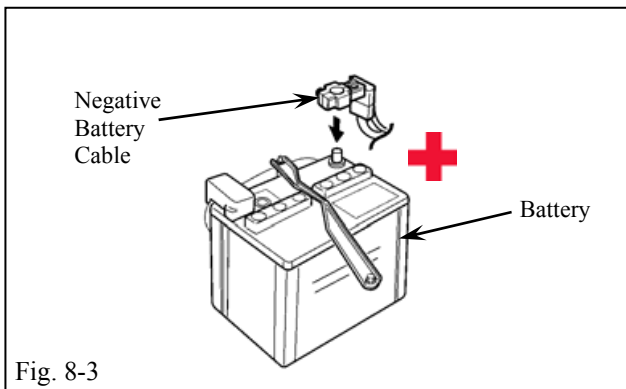
- (a) Move the shifter to the “P” position.
- (b) Open the hood. (Fig. 8-1)



Do not close the hood during the registration setting procedure.

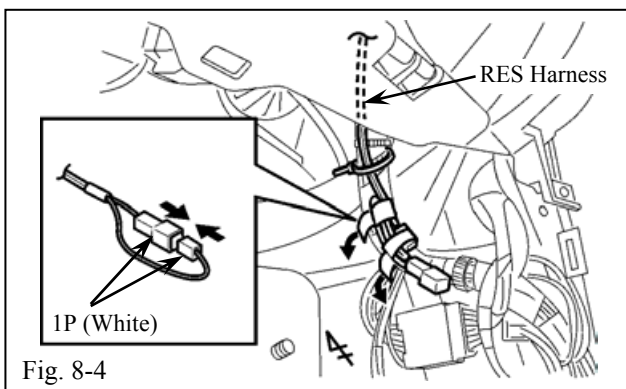


- (c) Verify that the Short pin is in the correct location. (Fig. 8-2)



- (d) Temporarily reconnect the vehicle's negative battery cable. (Fig. 8-3)

(1) Do not touch the positive terminal with any tool when replacing the cable.



- (e) Locate and disconnect the tape securing the V4 harness' white 1P RES Diagnostic Connectors from the Passenger side cowl area and connect them. (Fig. 8-4)

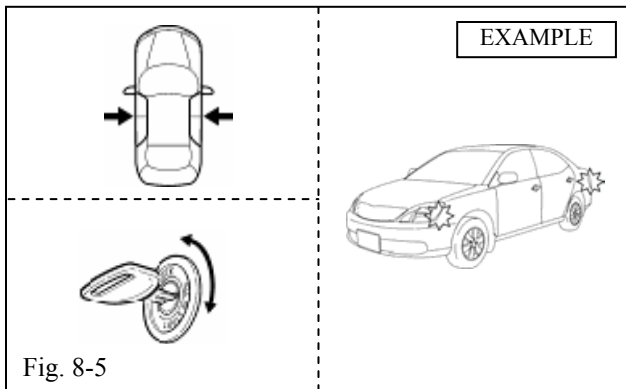


Fig. 8-5

- (f) Close all doors. Insert the key into the ignition switch and turn it from LOCK to ON 5 times (ending at ON). (Fig. 8-5)
- (g) The hazard lights flash once. (Fig. 8-5)
- (h) Turn the key back to "OFF".

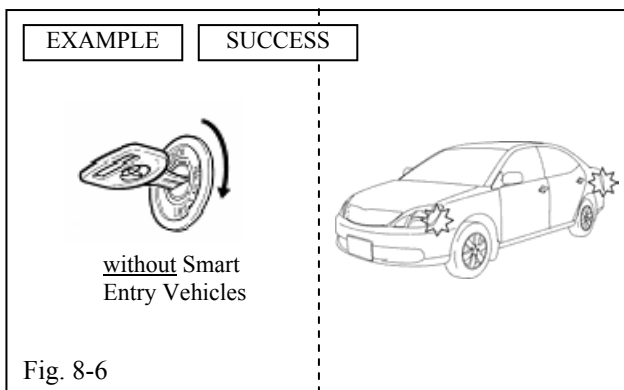


Fig. 8-6

- (i) Start the engine; after counting 10 seconds stop the engine. The hazard lights flash once. Registration completed. (Fig. 8-6)

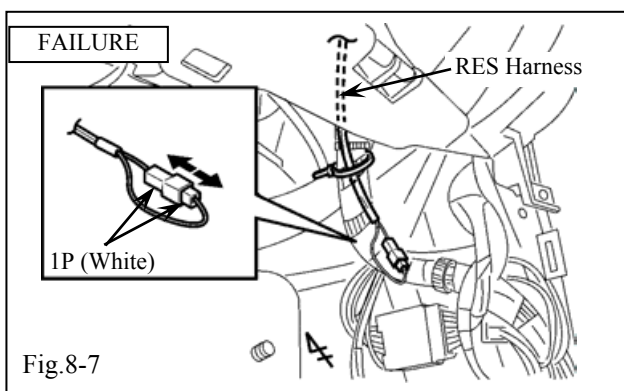
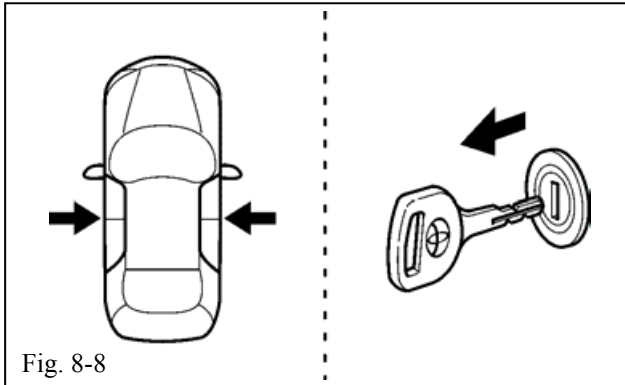


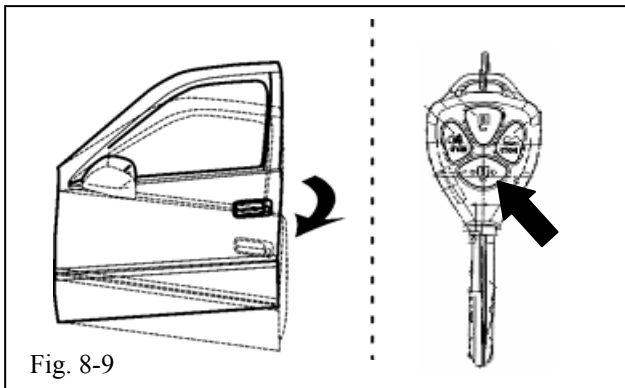
Fig. 8-7

- (j) If you failed in this procedure, the hazard lights flash twice. Registration will not set. If it did not set, disconnect and reconnect the V4 harness white 1P connector from the passenger side cowl area. (Fig. 8-7)
 - (1) Disconnect the negative battery terminal, and then start again from Step b.

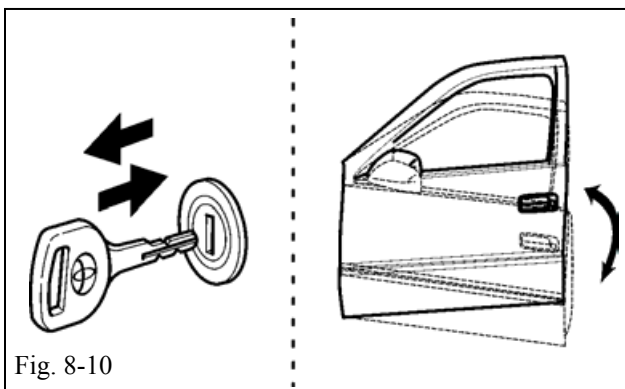
NOTE: The diagnostic connectors must be unplugged, then plugged in for each new programming attempt.



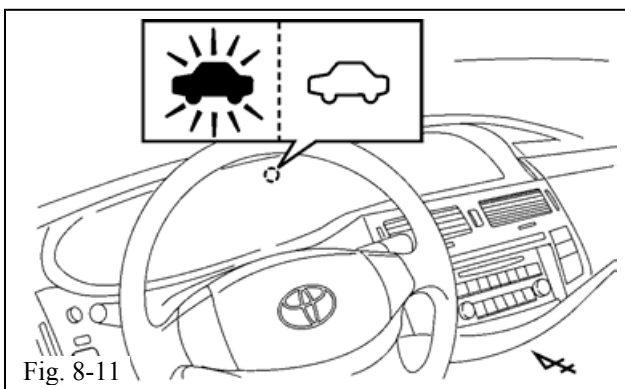
- (k) Verify that all doors are closed. (Fig. 8-8)
- (l) Insert the master (black) key into the Ignition switch and turn it to the "ON" position. Then turn it to the "OFF" position and remove the key from the ignition switch. (Fig. 8-8)



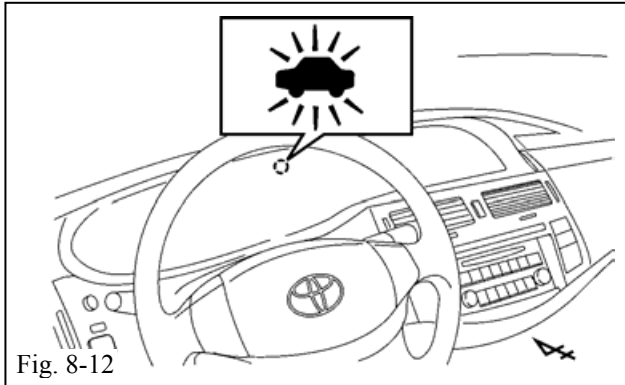
- (m) Open the driver's door. Using the remote control, press the Lock button twice within 2 seconds, then press and hold the lock button for four (4) seconds. (Fig. 8-9)



- (n) Insert the key into the ignition switch, and remove it six (6) times. Then insert and leave the key in the Ignition switch. (Fig. 8-10)
 - (1) Complete this step within 20 seconds of opening the driver's door.
- (o) Close the Driver's door, then open and close the driver's door seven (7) times. (Fig. 8-10)
 - (1) Complete these steps within 35 seconds, with the driver's door closed when finished.
 - (2) If you fail this procedure or exceed 35 seconds during programming, the IMMOBILIZER SYSTEM will not set. Start again from Step b.

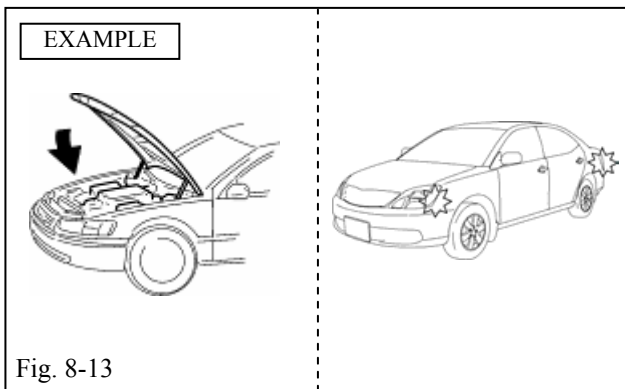


- (p) After the REGISTRATION process has been completed successfully
 - (1) Watch the LED light up for 1 second then turn off. (Fig. 8-11)

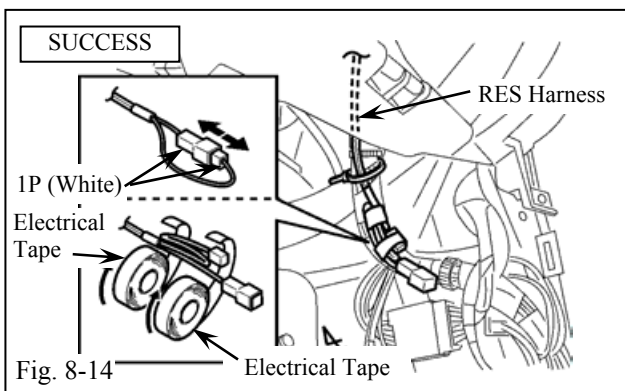


- (q) After the light is off for 1 second, the LED should light up again and stay on until the key is removed from ignition. (Fig. 8-12)

NOTE: If the LED does not light up as indicated, the IMMOBILIZER SYSTEM is not setting. Start again from Step a.

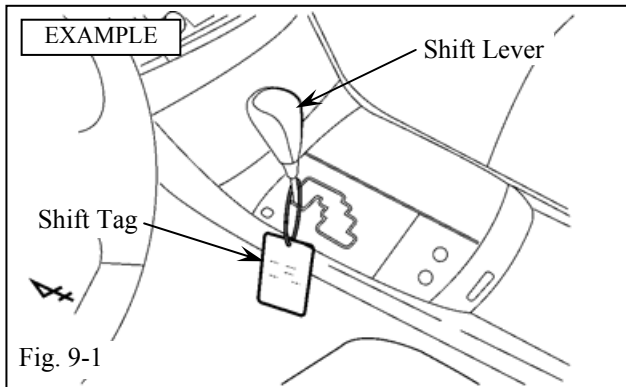


- (r) Close the hood. (Fig. 8-13)
- (s) The hazard lights flash twice. Registration completed (Fig. 8-13)
 - (1) If you fail this procedure, the hazard lights flash 3 times. Registration will not set. Start again from Step a.



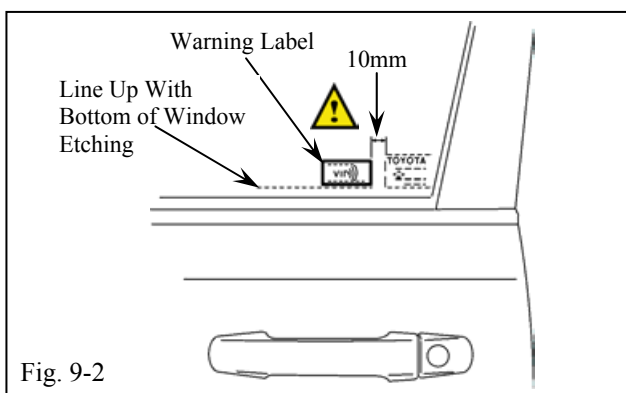
- (t) Disconnect the V4 harness' white 1P connectors. Secure the V4 harness and 1P connectors with electrical tape as shown. (Fig. 8-14)
- (u) Turn the key to the "OFF" position and remove the key from the ignition switch.

Go to Section 9

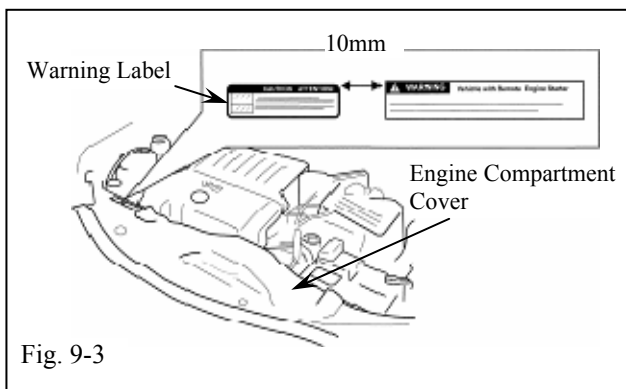


9. Tags and Labels Installation.

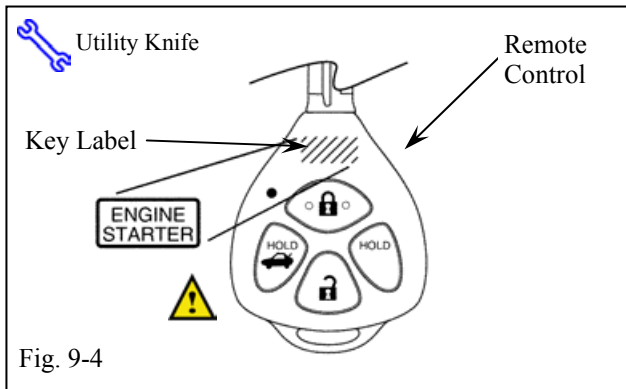
- (a) Hang the shift tag on the shift lever. (Fig. 9-1)



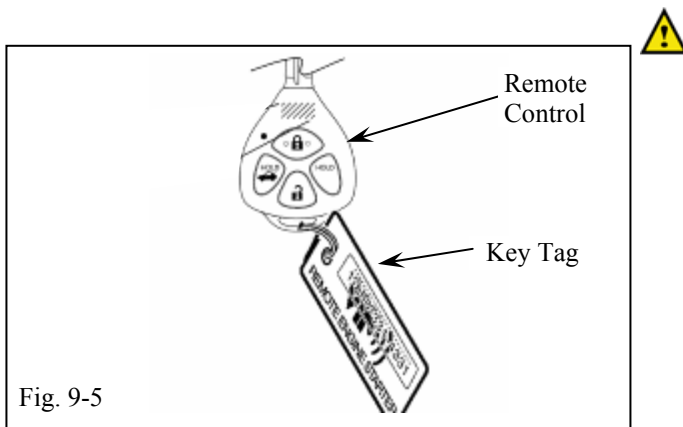
- (b) Using household Windex, clean the inside surface of the front door's windows. (Fig. 9-2)
 - (1) When cleaning with household Windex, follow the manufacturer's directions.
- (c) Place the window labels on the inside surface of the front door's windows as shown. (Fig. 9-2)



- (1) Use a piece of clean adhesive tape to lift the labels off their protective backing sheet.
 - (2) Do not touch the labels' adhesive surface.
- (d) Using the VDC approved cleaner, clean the area indicated on the engine compartment cover as shown. (Fig. 9-3)
 - (1) Do not allow cleaner to air dry.
 - (e) Remove the backing sheet and attach the warning label to the engine compartment cover on the left hand side as shown. Do not touch the label's adhesive surface. (Fig. 9-3)

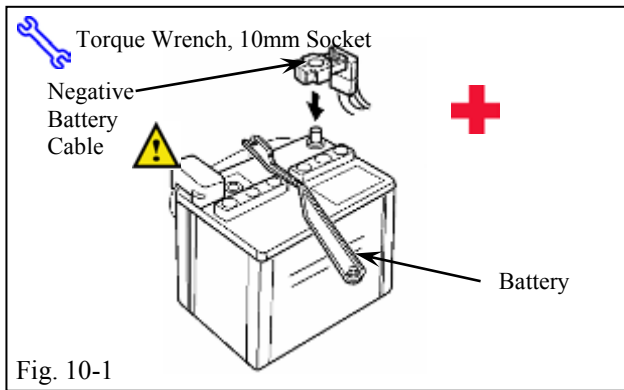


- (f) Remove one of the remote controls from its protective bag. With the utility knife, neatly cut a slit to open the bag. (Fig. 9-4)
- (g) Using the VDC approved cleaner, clean the area indicated on the Remote Control Key. (Fig. 9-4)
- (h) Remove the backing sheet and attach the Key Label to the Remote Control as shown. (Fig. 9-4)
 - (1) Use a piece of clean adhesive tape to lift the label off its protective backing sheet.
 - (2) Do not touch the label's adhesive surface.
- (i) Attach a Key Tag to each Master Key Ring. (Fig. 9-5)



10. Completing the Installation.

- (a) Complete the reassembly of the Vehicle.
 - (1) Reconnect any disconnected connectors.
 - (2) Verify the panels fit together properly with no uneven gaps between them.
- (b) Position the Negative Battery Cable at the original factory position. (Fig. 10-1)
 - (1) Tighten the Nut to 36 in•lbf (40.67 n•cm).
 - (2) Do not touch the Positive battery terminal.
- (c) Clean up and remove any trash.
- (d) Place the Owner's Guide, left in its Protective Bag, in the Glove Box.
- (e) Reset the Power Windows.
 - (1) Turn ignition key to the "ON" position.
 - (2) Push down the Power Window Switches of each door, and lower the windows halfway.
 - (3) Pull up the Switches until the Windows close and hold switches up for a minimum of one (1) second.
- (f) Reset the power moon roof.
 - (1) Open the Moonroof halfway.
 - (2) Push and hold the Moon roof switch to close side until the moon roof closes.
 - (3) Continue holding the Moon roof switch for a minimum of one (1) second.



Check:

Look For:

Accessory Function Checks

Function

Fit the appropriate fuse before beginning.

Close the hood, place the shift lever in the “P” (parking) position, set the parking brake, remove the key from the ignition, close all doors, and exit the vehicle.

Press the remote control’s lock button twice within 2 seconds, then press and hold the lock button 3 seconds.

1. The hazard lights flash after 3 seconds.
The engine starts.
The hazard lights flash repeatedly for 20 seconds.

Press the remote control’s unlock button.

2. The engine stops.
The hazard lights flash twice.

Press the remote control’s lock button twice within 2 seconds, then press and hold the lock button 3 seconds to start the engine. With the engine running, press and hold the remote control’s lock button 2 seconds.

3. Refer to Step 1.
The engine stops.
The hazard lights flash once.

Press the remote control’s lock button twice within 2 seconds, then press and hold the lock button 3 seconds to start the engine. Unlock the doors with the key.

4. Refer to Step 1.
The engine stops.
The hazard lights flash once.

Check:

Look For:

Enter the vehicle and close all doors.

Press the remote control’s lock button twice within 2 seconds, then press and hold the lock button 3 seconds to start the engine. With the engine running, manually unlock any door with the inside lock switch.

Press the remote control’s lock button twice within 2 seconds, then press and hold the lock button 3 seconds to start the engine. With the engine running, pull the hood release handle.

Exit the vehicle, close the hood, then enter the vehicle and close all doors.

Press the remote control’s lock button twice within 2 seconds, then press and hold the lock button 3 seconds to start the engine. With the engine running, push on the foot brake.

5. Refer to Step 1.
The engine stops.
The hazard lights flash once.
The security alarm triggers if security is equipped.

6. Refer to Step 1.
The engine stops.
The hazard lights flash once.
The security alarm triggers if security is equipped.

7. Refer to Step 1.
The engine stops.
The hazard lights flash once.

Check:

Look For:

- Press the remote control's lock button twice within 2 seconds, then press and hold the lock button 3 seconds to start the engine. With the engine running, insert the key into the ignition switch.
- Press the remote control's lock button twice within 2 seconds, then press and hold the lock button 3 seconds to start the engine. Step on the gas pedal until engine speed exceeds 3000 RPM.
- Move the shift lever from "P" (parking) to another position. Press the remote control's lock button twice within 2 seconds, then press and hold the lock button 3 seconds to start the engine.

- 8. Refer to Step 1.
The engine stops.
The hazard lights flash once.
- 9. Refer to Step 1.
The engine stops.
The hazard lights flash once.
- 10. The engine does not start.

Check:

Look For:

Vehicle Function Checks

- Head Lights
- High Beams
- Turn Signal Lights
- Tail Lights
- Stop Lights
- Backup Lights
- Hazard Lights
- Marker Lights
- Dome/Courtesy Lights
- Panel/Switch Illumination
- Accessory Controls/Illumination (if equipped)
- Key Sensor Buzzer
- Fog Lights (if equipped)
- Daytime Running Lights (if equipped)
- Trunk/Tailgate/Bed Lights (if equipped)
- Glove Box Light (if equipped)
- Cruise Control Light (if equipped)

- Functioning Head Lights
- Functioning High Beams
- Functioning Turn Signal Lights
- Functioning Tail Lights
- Functioning Stop Lights
- Functioning Backup Lights
- Functioning Hazard Lights
- Functioning Marker Lights
- Functioning Dome/Courtesy Lights
- Functioning Controls/Illumination
- Functioning Accessory
- Functioning Key Sensor
- Functioning Fog Lights
- Functioning DR Lights
- Functioning Lights
- Functioning Glove Box Light
- Functioning Cruise Control Light

Check:

- Seat Belt Warning Light
- Air Bag Warning Light
- ABS Light (if equipped)
- Lamp Failure Sensor (if equipped)
- Track/Skid Control Light (if equipped)
- HVAC
- Power Locks (if equipped)
- Power Windows (if equipped)
- Power Seats (if equipped)
- Horn
- Gauges
- Front Wiper/Washer
- Rear Wiper/Washer (if equipped)
- Clock (if equipped)
- Accessory Power Socket (if equipped)
- Starter

Look For:

- Functioning Seat Belt Warning Light. If the warning light remains on, it may indicate a system malfunction.
- Functioning Air Bag Warning Light. If the warning light remains on, it may indicate a system malfunction.
- Functioning ABS Light. If the warning light remains on, it may indicate a system malfunction.
- Functioning Lamp Failure Light. If the warning light remains on, it may indicate a system malfunction.
- Functional Track/VSC Light. If the warning light remains on, it may indicate a system malfunction.
- Functioning HVAC Controls
- Functioning Power Locks
- Functioning Power Windows
- Functioning Power Seats
- Functioning Horn
- Functioning Gauges
- Functioning Front Wiper/Washer
- Functioning Rear Wiper/Washer
- Functioning Clock
- Functioning Power Socket
- Functioning Starter

Check:

- Audio/Video (if equipped)
- Power Sliding Door (if equipped)
- Convenience Memory Settings (if equipped)
- Heated Seats (if equipped)
- Massage Seats (if equipped)
- Rear Window Defogger (if equipped)
- Power Side Mirrors (if equipped)
- Side Mirror Defogger (if equipped)
- Front Windshield Defogger (if equipped)
- Navigation System (if equipped)
- Rear Sunshade (if equipped)

Remove the appropriate fuse after checks are completed.

Look For:

- Functioning Audio/Video
- Functioning Power Sliding Door
- Functioning Memory Settings
- Functioning Heated Seats
- Functioning Massage Seats
- Functioning Rear Window Defogger
- Functioning Power Side Mirrors
- Functioning Side Mirror Defogger
- Functioning Front Windshield Defogger
- Functioning Navigation System
- Functioning Rear Sunshade