

Part Number: PT398-33070

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

Conflicts

--

Recommended Sequence of Application

Item #	Accessory	

Kit Contents

Item #	Quantity	Description
1	1	Wire Harness (Main)
2	1	Wire Harness (Hood Switch)
3	1	ECU Mounting Bracket (A)
4	1	ECU Mounting Bracket (B)
5	2	Butyl Tape

Hardware Bag Contents

Item #	Quantity	Description
1	1	RES ECU
2	1	BUS ECU
3	1	Hood Switch
4	5	Harness Clamps
5	2	Hood Switch Screws
6	4	Nuts
7	10	Foam Tape
8	30	Wire Ties
9	2	Window Warning Labels
10	1	Engine Compartment Caution Label
11	2	Key Tag
12	1	Shift Tag
13	2	Remote Control Key Label
14	1	Owner's Manual






Additional Items Required For Installation

Item #	Quantity	Description

Recommended Tools

Protection Equipment	Notes
Safety Glasses	
Safety Gloves	(Optional)
Vehicle Protection	Blankets, Parts Boxes
Special Tools	Notes
Scan tool and Software Card	01001271 with Version 13.3a Software (or later)
Cable Wire Routing Tool	
Wiring Terminal Tool (PPO Only)	CAD-E IADS P/N ALL 02-016-03
Installation Tools	Notes
Screwdrivers	#2 Phillips, Phillips Jewelers, Flatblade Jewelers
Socket	10mm, Extension
Nylon Panel Removal Tool	e.g. Panel Pry Tool #1 Toyota SST # 00002-06001-01
Side Cutters	
Felt Tip Pen	
Utility Knife	
Torque Wrench	
Pliers	
Tape	Scotch Tape
Special Chemicals	Notes
Cleaner	3M Prep Sol-70
Glass Cleaner	Household Windex

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.

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.).

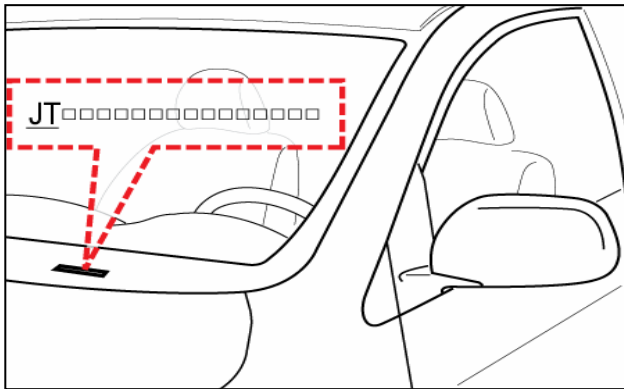
Please see your Toyota dealer for a copy of this document



- For Japan Built Vehicles use Camry Hybrid V4 Installation Manual Procedure I - Japan Built (page 3)
- For US Built Vehicles use Camry Hybrid V4 Installation Manual Procedure II - US Built (page 24)

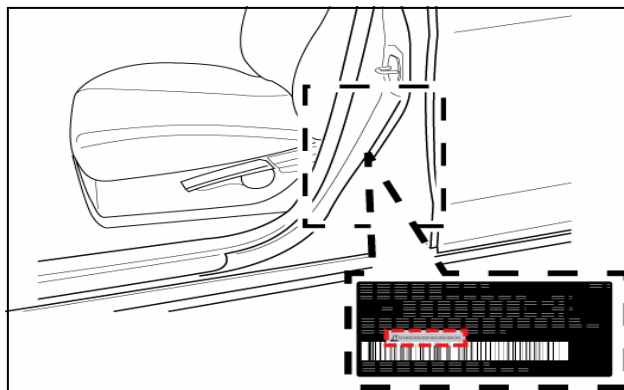


How to distinguish Vehicles manufactured in US or Japan



I. Locate the Vehicle Vin Code either on the Dash or on the Inside Frame of the Drivers Door.

II. All Vehicles with Vin Codes that start with **JT** were manufactured in Japan. For these Vehicles use the Camry Hybrid V4 Installation Manual Procedure I - Japan Built vehicle (page 3).



III. For all other vehicles with Vin Codes that **DO NOT** start with **JT** you will use Camry Hybrid V4 Installation Manual Procedure II - U.S. Built vehicle (page 24)

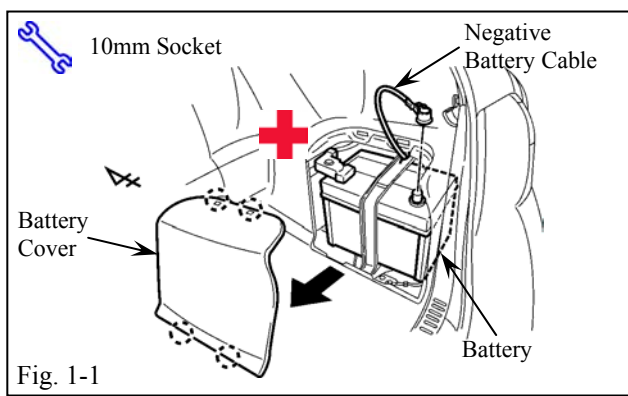
Procedure I - Japan Built Vehicle

NOTE: This installation instruction covers both V5 harness and RES harness installation.

The differences are highlighted in the procedure as follows:

- Plain text is for RES Installation only.

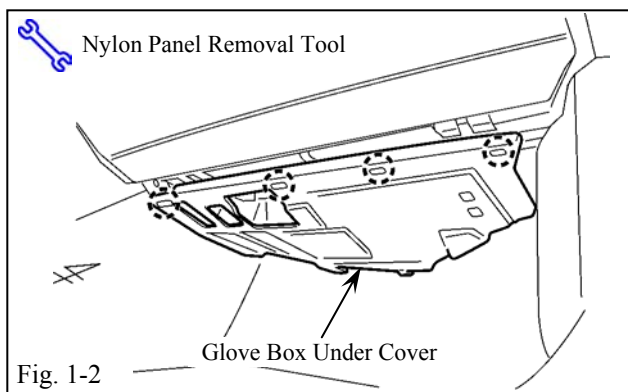
· Solid Line Text Boxes are used for both RES Harness and V5 Harness installation.



1. Vehicle Disassembly.

- Vehicles with Automatic Transmission should be placed in Low Gear and have the Parking Brake set.
- Remove the Battery Cover from the Passenger Side Luggage Compartment. Then disconnect the Negative Battery Cable.

(Fig. 1-1)

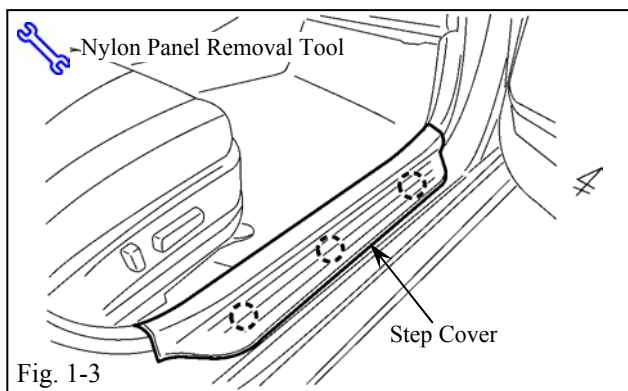


- Note the Battery Cable position, as it will be re-installed in the same position.

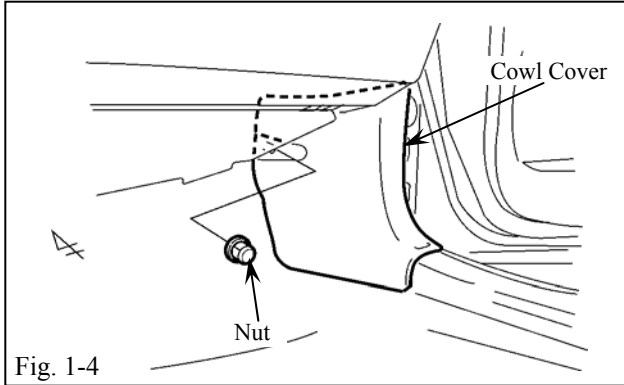
- Avoid touching the Positive Battery Terminal.

- Remove the Glove Box Under Cover.

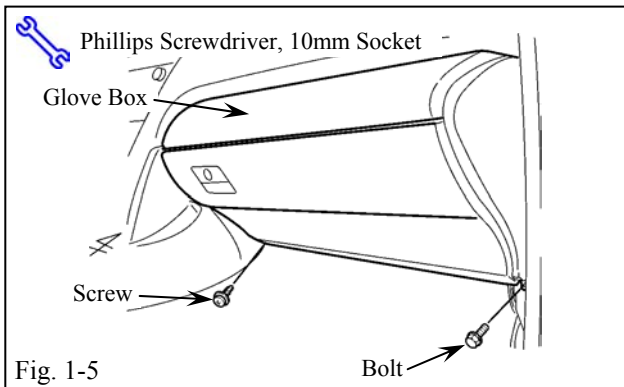
- Protect the Vehicle Interior before starting.



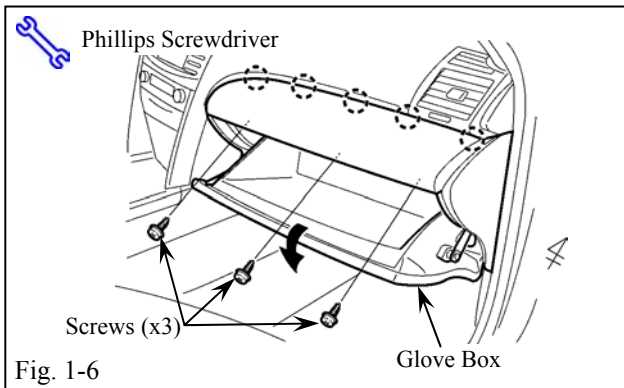
- Remove the Passenger's Step Cover.



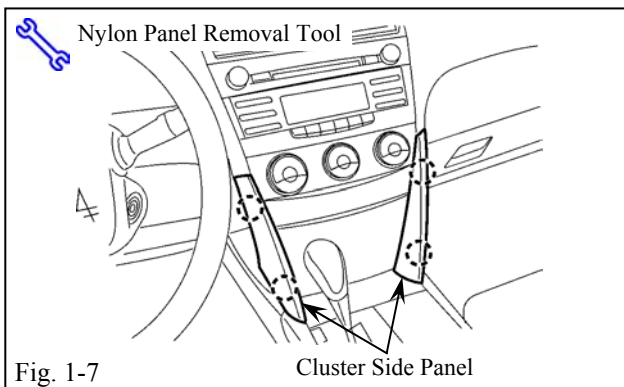
- (e) Remove the Passenger's Cowl Cover. (Fig. 1-4)
 - (1) Remove 1 nut.



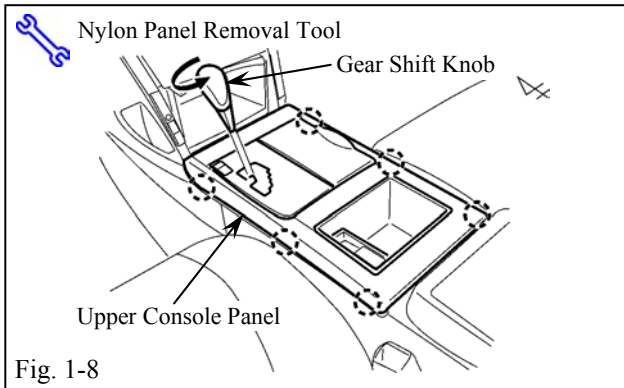
- (f) Remove 1 Screw and 1 Bolt from the Glove Box. (Fig. 1-5)



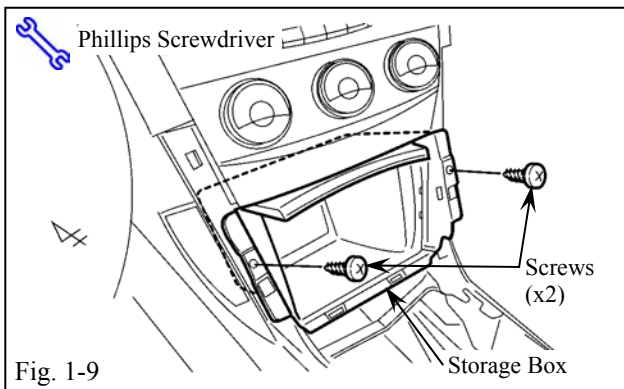
- (g) Open the Glove Box Door. Then remove 3 Screws securing the Glove Box. (Fig. 1-6)
- (h) Remove the Glove Box. (Fig. 1-6)



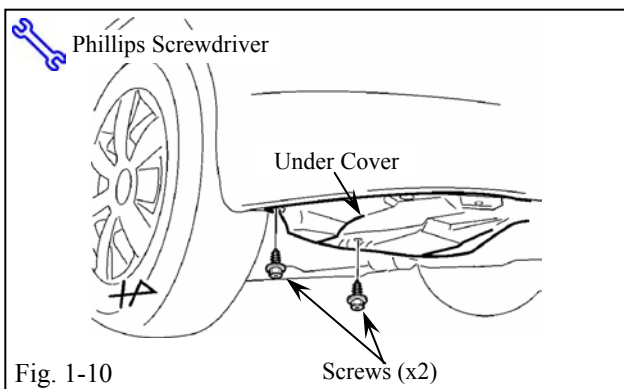
- (i) Remove the Left and Right Cluster Side Panel. (Fig. 1-7)



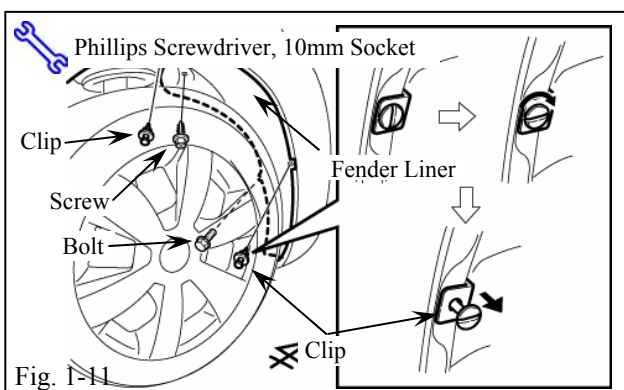
- (j) Remove the Gear Shift Knob. (Fig. 1-8)
- (k) Remove the Upper Console Panel (Fig. 1-8)
 - (1) Disconnect all Cables and Connectors from behind the Console Panel.



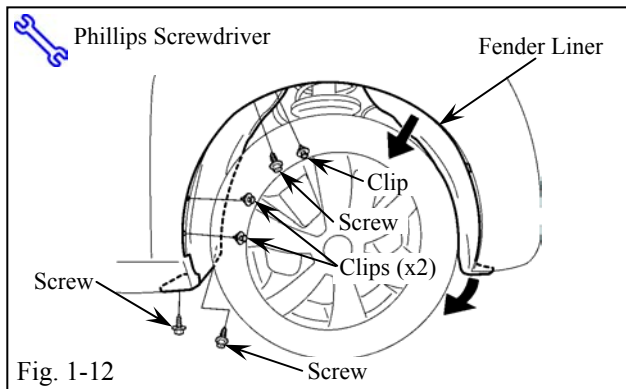
- (l) Remove the Storage Box. (Fig. 1-9)
 - (1) Remove 2 screws.



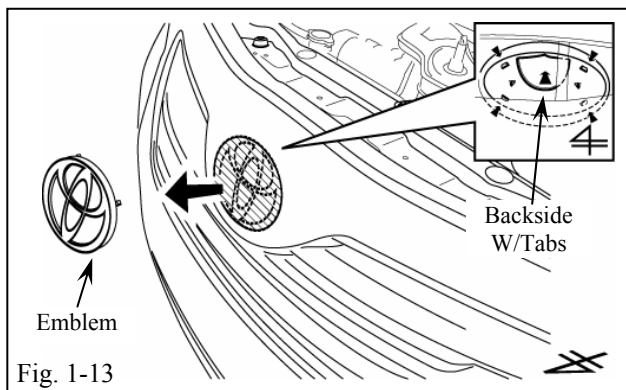
- (m) Loosen the Engine Compartment Under Cover. (Fig. 1-10)
 - (1) Remove 2 screws.



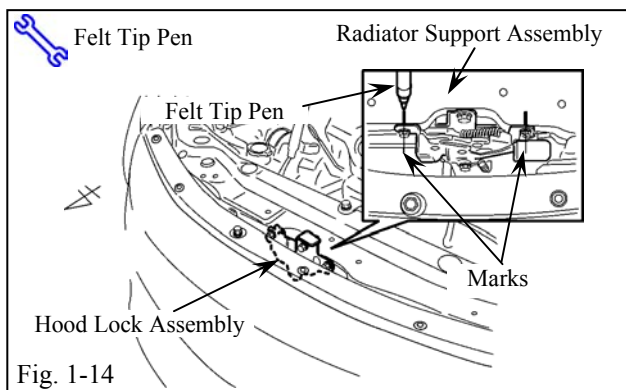
- (n) Remove 2 Clips, 1 Screw and 1 Bolt from the Passenger Side Fender Liner. (Fig. 1-11)
 - (1) To remove the Clips turn the Clip clockwise at an angle of 90°, then pull out the clip.



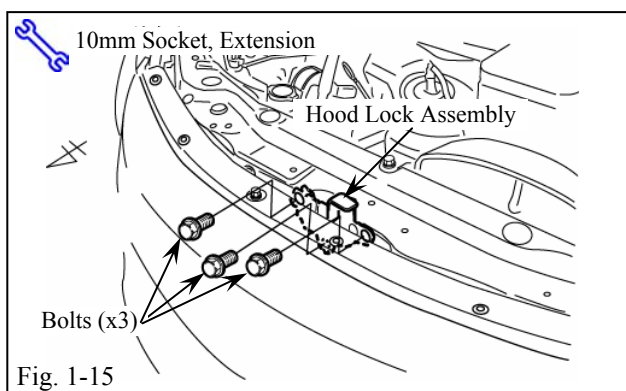
- (o) Remove 3 Clips and 3 Screws from the Fender Liner. (Fig. 1-12)
- (p) Pull the Fender Liner away from the Fender. (Fig. 1-12)



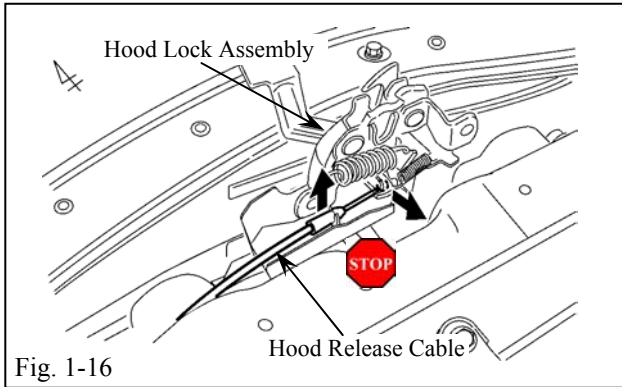
- (q) Remove the Emblem from the Front of the Vehicle. (Fig. 1-13)
- (1) Push in on the Emblem Tabs, on the backside of the Emblem.



- (r) Using the Felt Tip Pen, mark the Radiator Support Assembly and Hood Lock Assembly as shown. (Fig. 1-14)

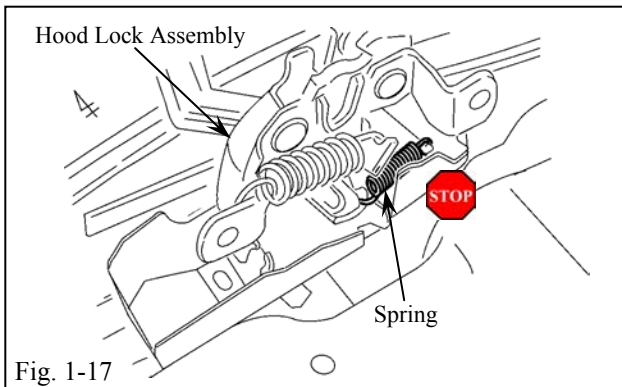


- (s) Remove the Hood Lock Assembly. (Fig. 1-15)
- (1) Remove three 10mm Bolts.



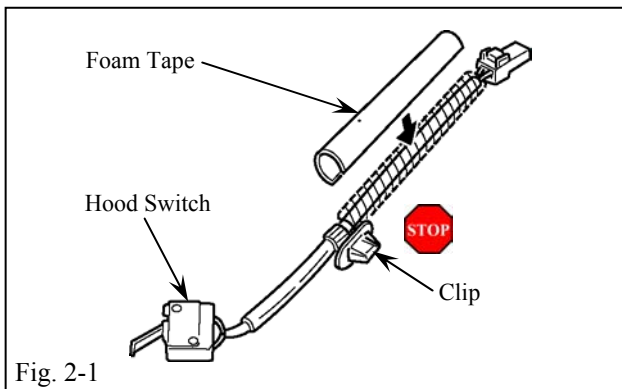
(t) Remove the Hood Release Cable from the Hood Lock Assembly. (Fig. 1-16)

- (1) Do not bend the Hood Release Cable.



(u) Remove the Spring from the Hood Lock Assembly. (Fig. 1-17)

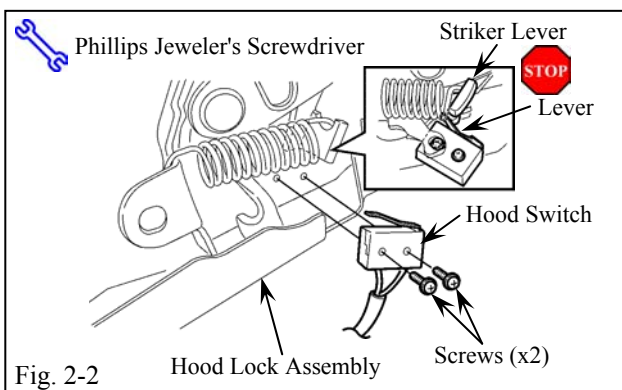
- (1) Do not bend the Spring.



2. Hood Switch and Hood Switch Harness Preparation and Installation.

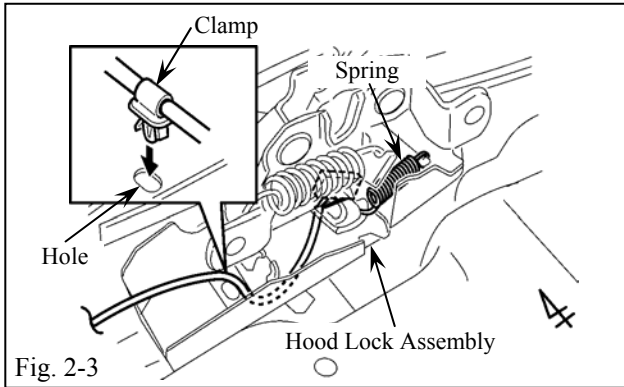
(a) Wrap the Hood Switch Harness with 1 Foam Tape. (Fig. 2-1)

- (1) Do not cover the Hood Switch Clip with the Foam Tape.

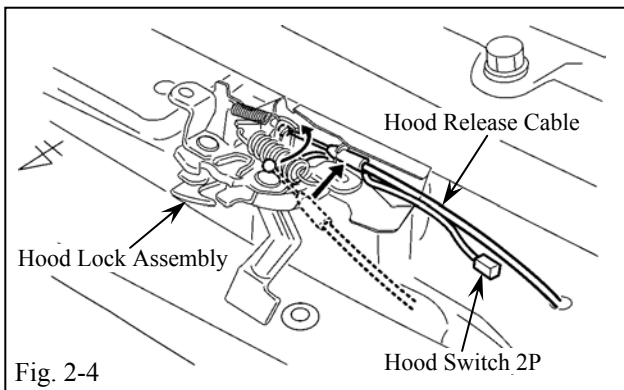


(b) Install the Hood Switch to the Hood Lock Assembly with 2 Screws. (Fig. 2-2)

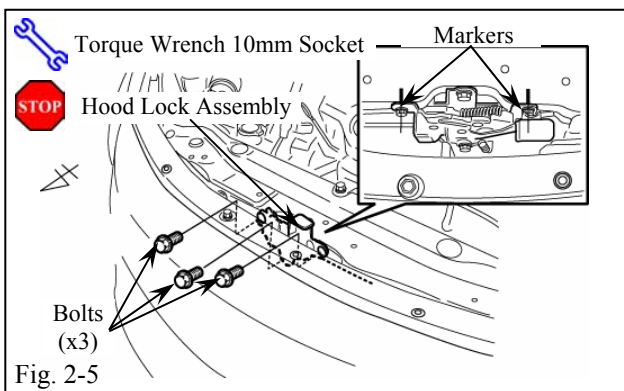
- (1) Put the Hood Switch Lever on the bottom of the Hood Lock Striker Lever.



- (c) Refit the Spring to the Hood Lock Assembly. (Fig. 2-3)
- (d) Secure the Hood Switch Harness Clamp into the Hole of the Hood Lock Assembly. (Fig. 2-3)

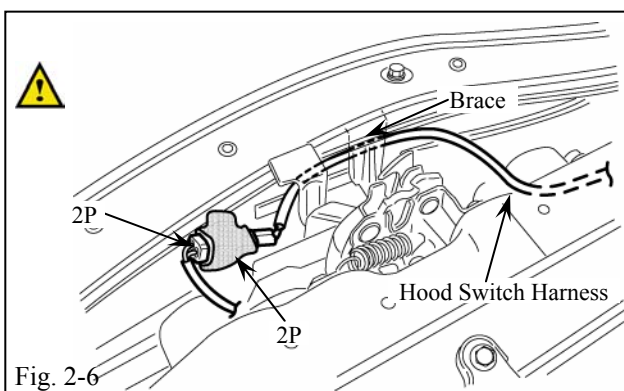


- (e) Refit the Hood Release Cable to the Hood Lock Assembly. (Fig. 2-4)



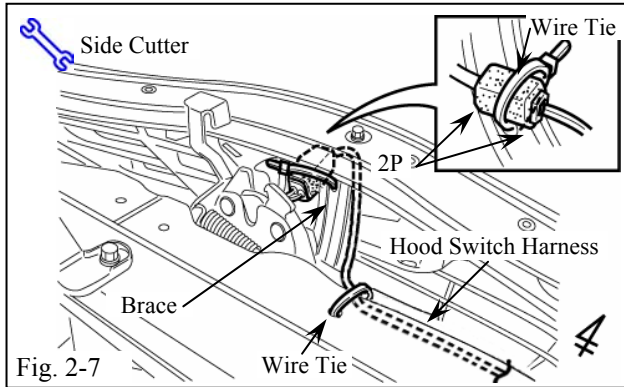
- (f) Temporarily install the Hood Lock Assembly with 3 Bolts. Position the Hood Lock Assembly to the Radiator Support Assembly by aligning the markers made in Fig. 1-14. Tighten the 3 Bolts. (Fig. 2-5)

- (1) Tighten the 3 bolts to 66.4 in•lbf ± 1.5 (7.5 N•m ± .2).

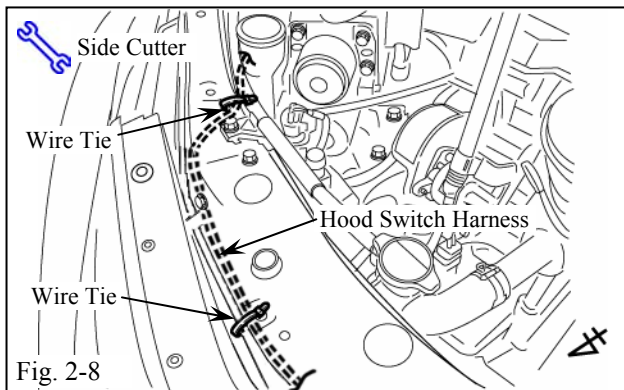


- (g) Route the Hood Switch Harness behind the Brace. Then connect the Hood Switch's White 2P Connector to the Hood Switch Harness' White 2P Connector. (Fig. 2-6)

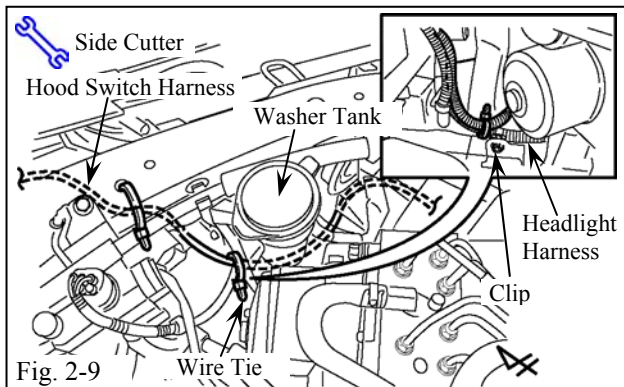
- (1) Verify the Connectors are plugged in securely.



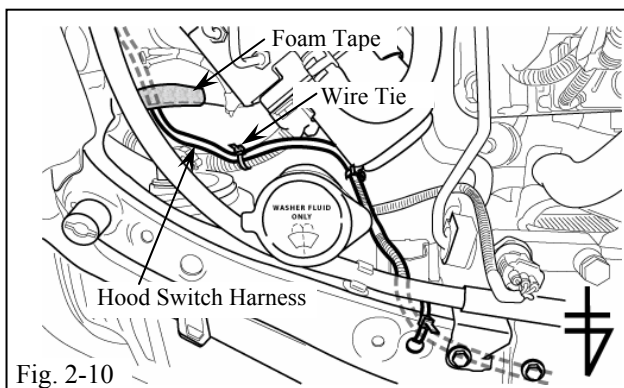
- (h) Secure the 2P Connector to the Hole of the Brace with 1 Wire Tie. (Fig. 2-7)
- (i) Route the Hood Switch Harness along the underside of the Radiator Support Assembly and toward the Passenger Side. Secure it to the Hole of the Radiator Support Assembly with 1 Wire Tie. (Fig. 2-7)



- (j) Secure the Hood Switch Harness to the Holes in the Radiator Support Assembly with 2 Wire Ties. (Fig. 2-8)



- (k) 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. 2-9)



- (l) Wrap 1 piece of Foam Tape around the metal edge of the Vehicle as shown. (Fig. 2-10)
- (m) Use 1 Wire Tie to secure the Hood Switch Harness to the Vehicle Harness. (Fig. 2-10)

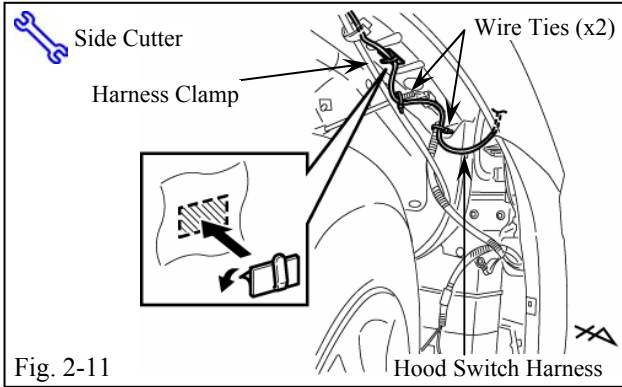


Fig. 2-11

- (n) Route the Hood Switch Harness into the Passenger Side Fender Area. (Fig. 2-11)
- (o) Secure it to the Vehicle Harness with 2 Wire Ties, and 1 Harness Clamp. (Fig. 2-11)
 - (1) Bend the Harness Clamp Hook to secure the Hood Switch Harness.

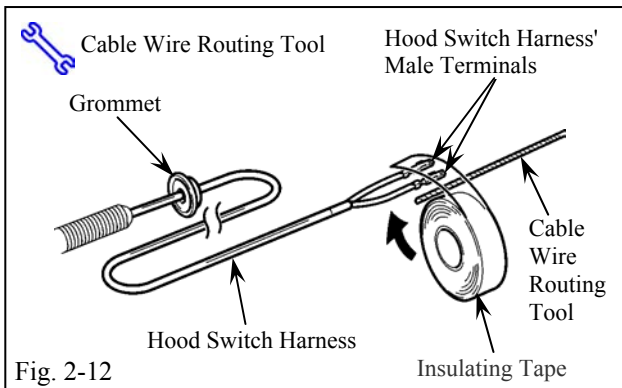


Fig. 2-12

- (p) Secure 2 Terminals at the end of the Hood Switch Harness to the Cable Wire Routing Tool with Insulating Tape. (Fig. 2-12)

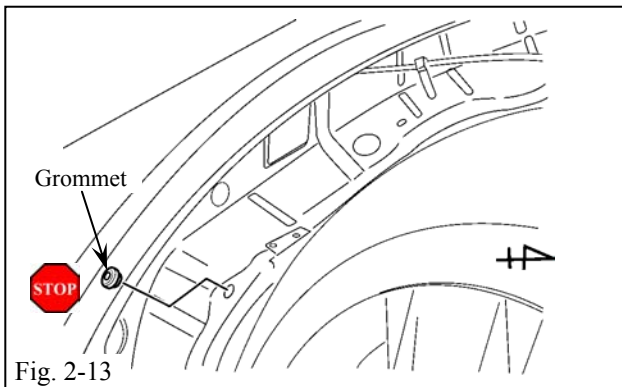


Fig. 2-13

- (q) Locate and remove the Grommet in the Passenger Side Fender Area. (Fig. 2-13)
 - (1) Discard the Grommet.

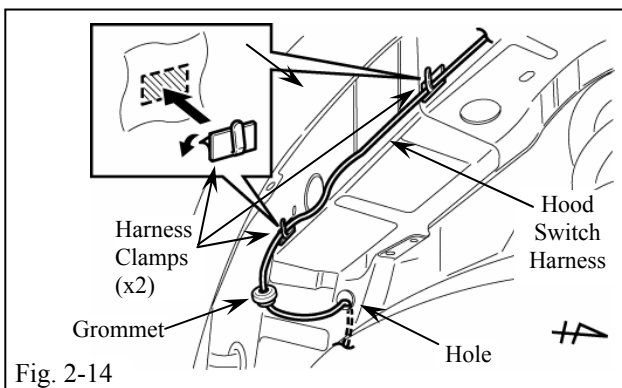
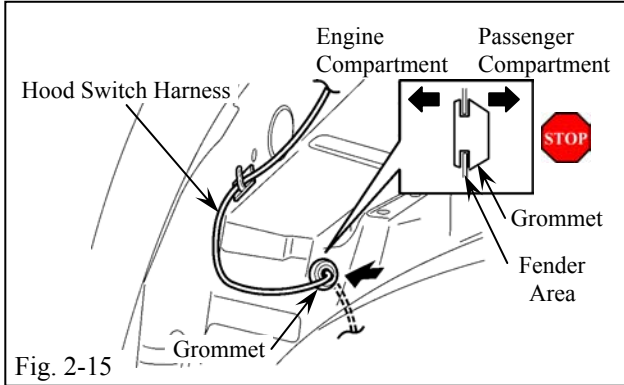


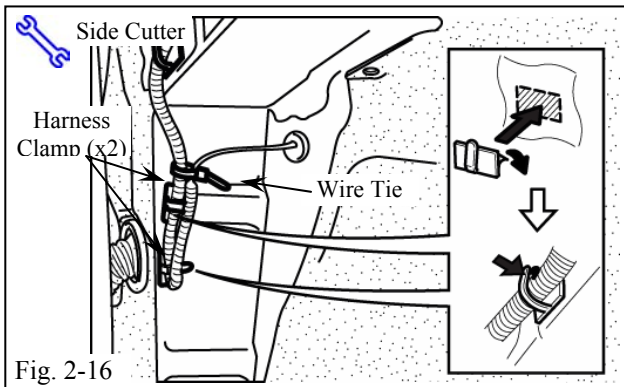
Fig. 2-14

- (r) Route the Hood Switch Harness toward the Hole. (Fig. 2-14)
- (s) Secure it to the Vehicle Body with 2 Harness Clamps. (Fig. 2-14)
 - (1) Bend the Harness Clamp Hooks to secure the Hood Switch Harness.
- (t) Run the Cable Wire Routing Tool and Hood Switch Harness through the Hole of the Passenger Side Fender Area, from the Engine Compartment to the Passenger Compartment. (Fig. 2-14)



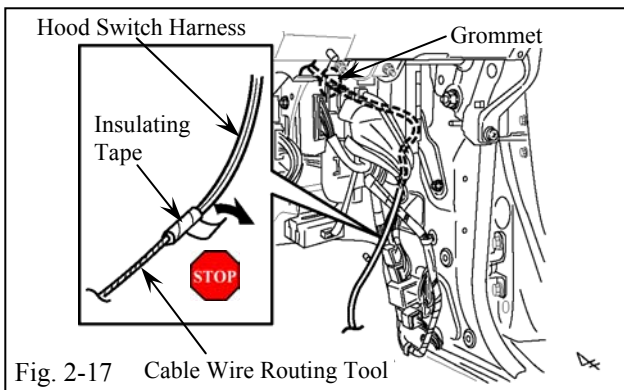
(u) From the Passenger Compartment, lightly pull the Hood Switch Harness. Fit the Grommet into the Hole of the Passenger Side Fender Area. (Fig. 2-15)

- (1) Verify the Grommet is installed properly. If the Grommet does not fit into the Hole properly, water will come into the Passenger Compartment.



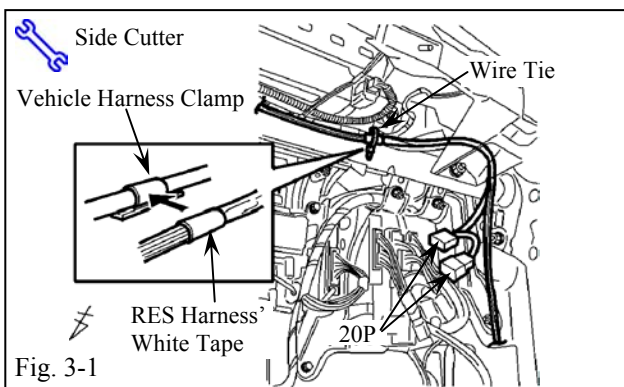
(v) Wire Tie the excess Hood Switch Harness as shown. Use 2 Harness Clamps to secure the excess Harness to the Vehicle. (Fig. 2-16)

- (1) Bend the Harness Clamp Hook to secure the Harness.



(w) Remove the Insulating Tape and Cable Wire Routing Tool. (Fig. 2-17)

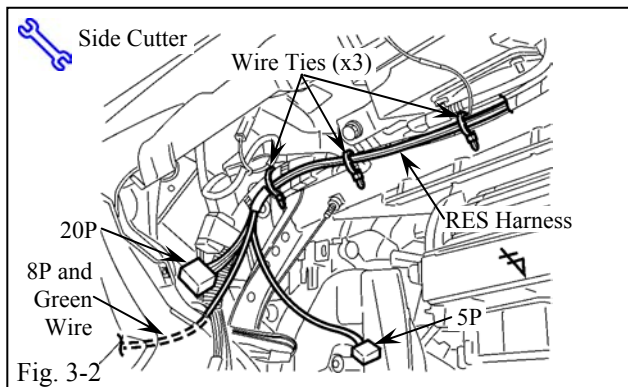
- (1) Do not damage the Hood Switch Harness's Terminal.



3. RES Harness Installation.

(a) Locate the Vehicle Harness Clamp in the Glove Box Area. Secure the White Taped Marker of the RES Harness to the Vehicle Harness Clamp with 1 Wire Tie. (Fig. 3-1)

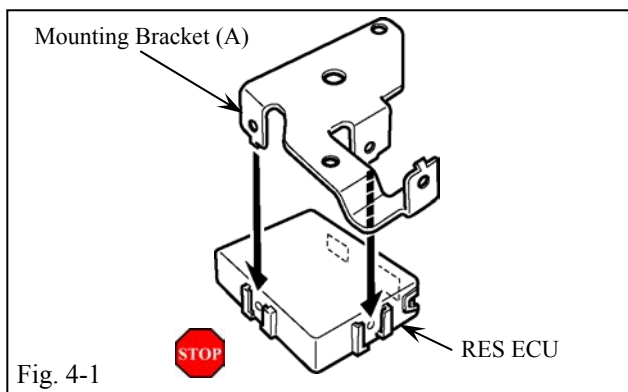
- (1) Line up the RES Harness' White Tape Marker to the Vehicle Harness Clamp.



(b) Route the RES Harness to the Center Cluster Area, securing it to the Vehicle Harness with 3 Wire Ties. (Fig. 3-2)

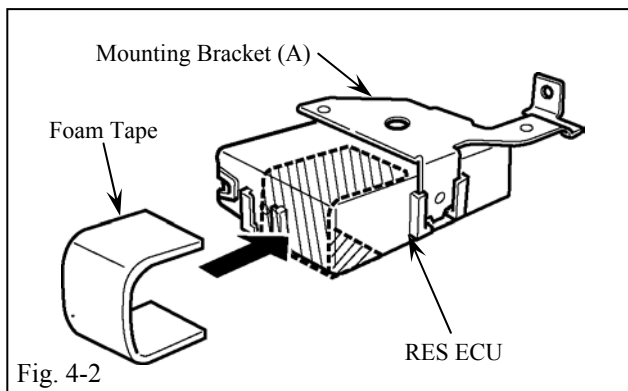
- (1) Route the RES Harness' White 8P Connector (connected empty female connector) and GREEN Wire to the Center Cluster Area.

4. RES ECU and BUS ECU Preparation and Installation.

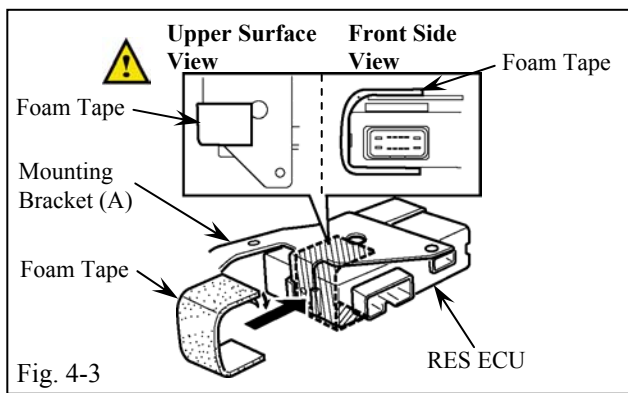


(a) Insert the RES ECU into the Mounting Bracket (A) as shown. (Fig. 4-1)

- (1) Insert the Mounting Bracket into the correct ECU's slot.
- (2) The Bracket is permanently attached once installed.
- (3) Ensure the Bracket is firmly attached to the ECU.

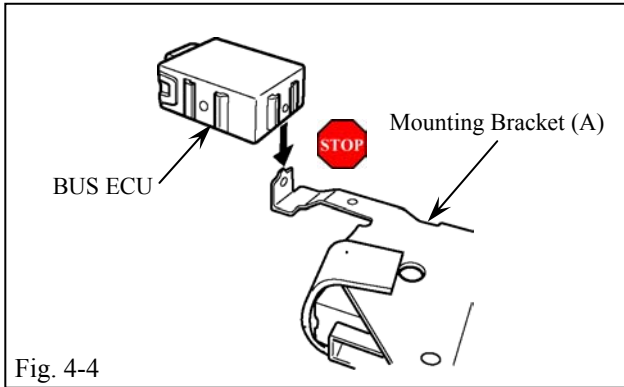


(b) Apply 1 Foam Tape to the edge of the RES ECU as shown. (Fig. 4-2)

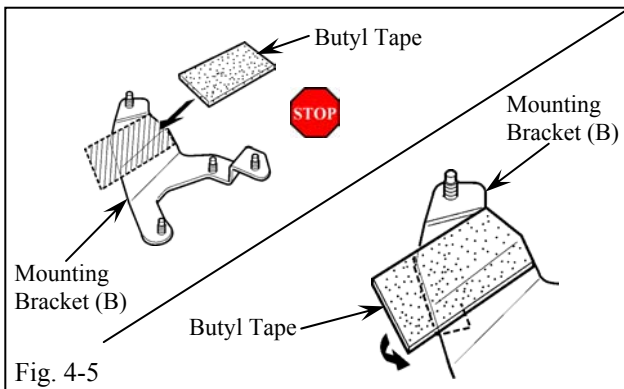


(c) Apply 1 Foam Tape to the Mounting Bracket (A) and the edge of the RES ECU as shown. (Fig. 4-3)

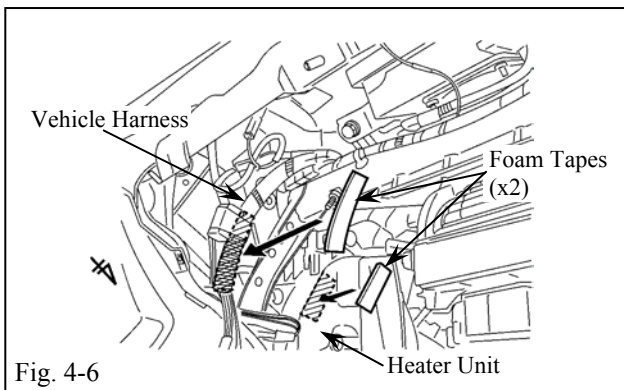
- (1) Do not cover the Hole of the Bracket with the Foam Tape.



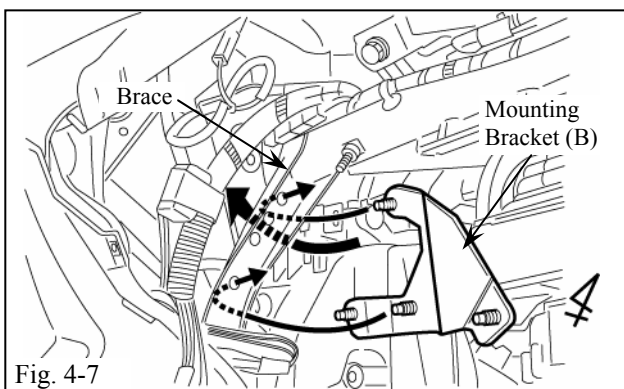
- (d) Insert the BUS ECU to the Mounting Bracket (A) as shown. (Fig. 4-4)
- (1) Insert the Mounting Bracket into the correct ECU's Slot.
 - (2) The Bracket is permanently attached once installed.
 - (3) Ensure the Bracket is firmly attached to the ECU.



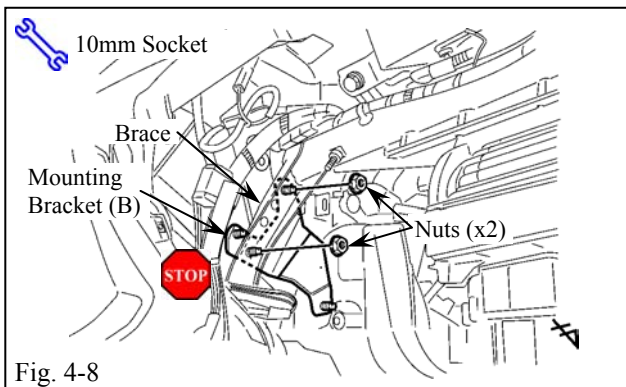
- (e) Affix 1 piece of Butyl Tape, the Mounting Bracket (B). (Fig. 4-5)
- (1) Do not touch the Adhesive Surface.
 - (2) Do not remove the Top Protective Sheet from the Butyl Tape yet.



- (f) Wrap the Butyl Tape around the edge of the Mounting Bracket (B). (Fig. 4-5)
- (g) Attach 2 pieces of Foam Tape to the Vehicle Harness and Heater Unit as shown. (Fig. 4-6)

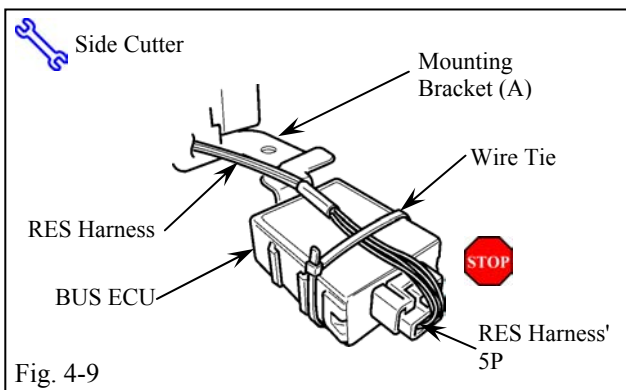


- (h) Peel off the Top Protective Sheet from the Butyl Tape. Insert the Mounting Bracket (B) into the Vehicle Brace as shown. (Fig. 4-7)
- (1) Press the mounting bracket to the heater unit firmly.



(i) Secure the Mounting Bracket (B) to the Brace with 2 Nuts. (Fig. 4-8)

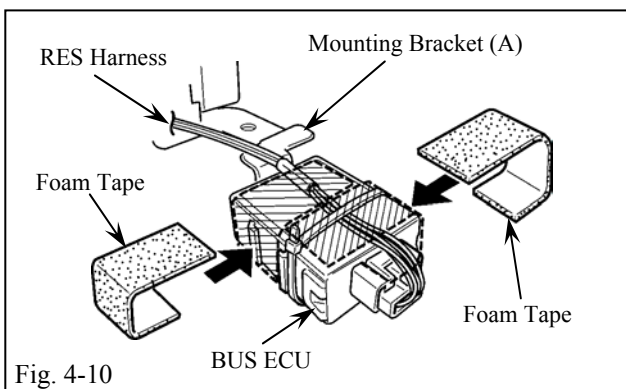
(1) Verify that the Nuts are tightened securely.



(j) Connect the RES Harness's White 5P Connector to the BUS ECU. (Fig. 4-9)

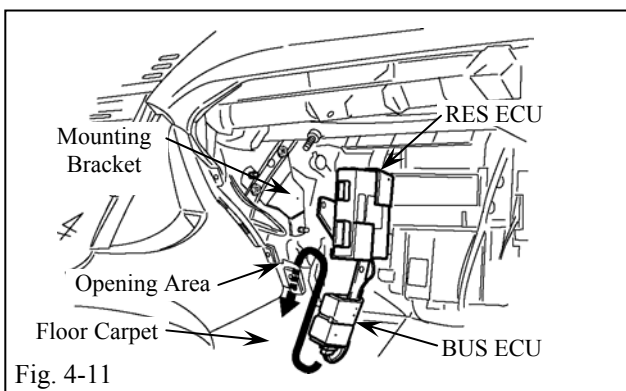
(1) Verify the Connector is plugged in securely.

(k) Use 1 Wire Tie to secure the RES Harness to the BUS ECU. (Fig. 4-9)



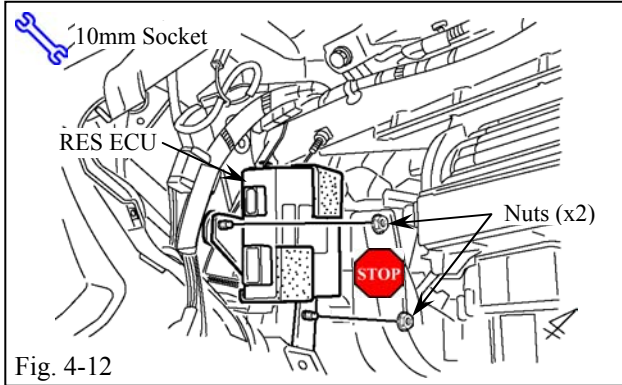
(l) Attach 2 pieces of Foam Tapes to the BUS ECU as shown. (Fig. 4-10)

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

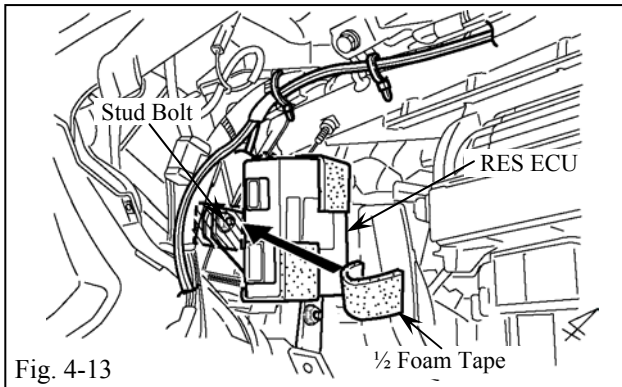


(m) Put the BUS ECU into the opening of the Floor Carpet and Heater Unit in the Passenger Side Center Cluster Area. (Fig. 4-11)

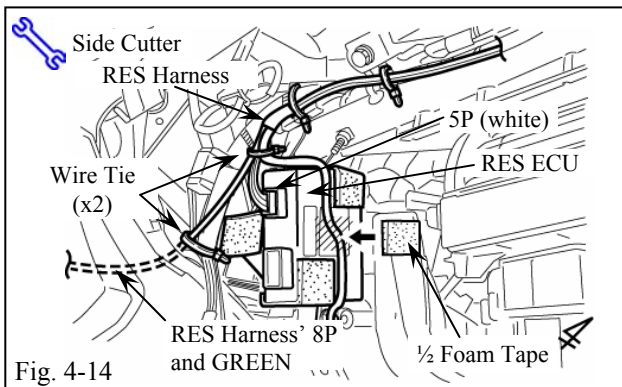
(n) Connect the Mounting Bracket (B) to Mounting Bracket (A) using the Studs on Bracket (B). (Fig. 4-11)



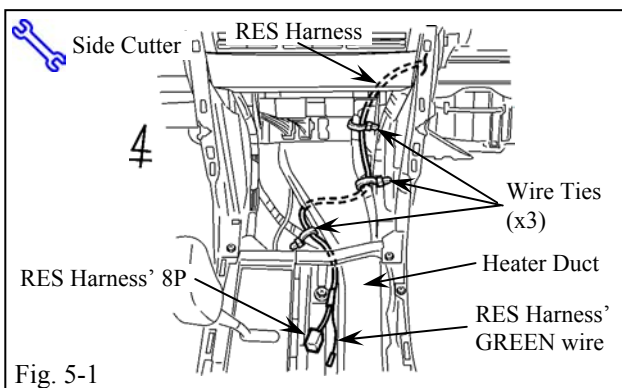
- (o) Secure Mounting Bracket (A) to Mounting Bracket (B) with 2 Nuts. (Fig. 4-12)
- (1) Verify the Nuts are tightened securely.



- (p) Cover the Mounting Bracket and Stud Bolt with 1/2 piece Foam Tape. (Fig. 4-13)
- (1) Do not discard the excess Foam Tape.

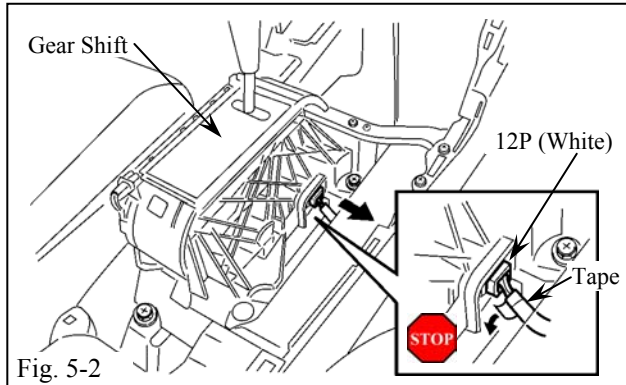


- (q) Connect the RES Harness's White 5P Connector to the RES ECU. (Fig. 4-14)
- (r) Secure the RES Harness section with the 8P Connector and the GREEN wire to the Vehicle Harness with 2 Wire Ties. (Fig. 4-14)
- (s) Locate the RES Harness section connected to the BUS ECU and secure it to the RES ECU with 1/2 piece of Foam Tape. (Fig. 4-14)



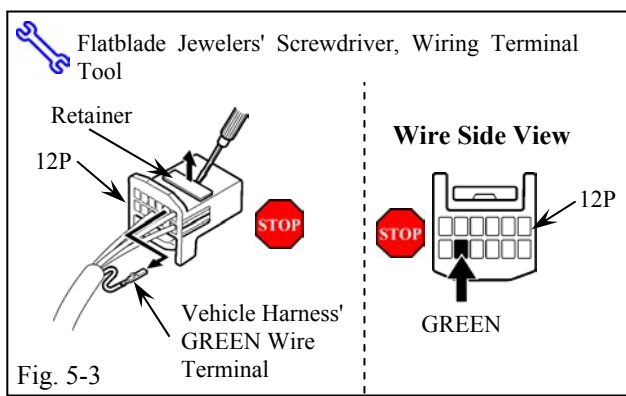
5. RES Harness Installation (continued)
(Center Console Area)

- (a) Route the RES Harness's White 8P (connected empty female connector) and GREEN Wire toward the Gear Shift Area. (Fig. 5-1)
- (b) Secure the RES Harness to the Vehicle Harness with 3 Wire Ties. (Fig. 5-1)



- (c) Locate and disconnect the white 12P Connector from the Gear Shift Area, then pull back the Tape covering on the 12P Connector Harness approximately 20mm. (Fig. 5-2)

(1) Do not damage the Vehicle Wires.



- (d) Use a Small Jeweler's Screwdriver to lift up the Terminal Retainer on the white 12P Connector. (Fig. 5-3)

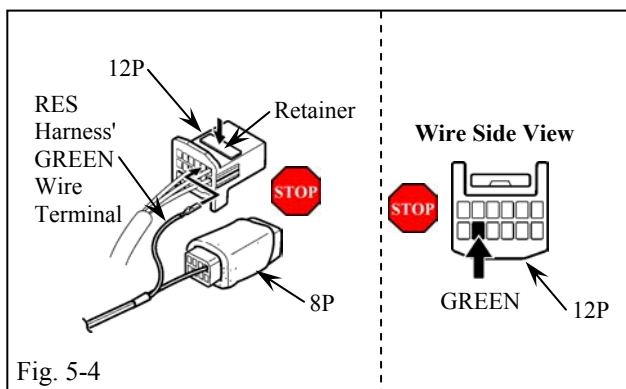
(1) Do not pull out the Retainer.

- (e) Locate the GREEN Wire on the white 12P Connector. (Fig. 5-3)

(1) Turn the Connector so the wires face you and the Tab is on top.

- (f) Using the Flatblade Jewelers Screwdriver (or wiring terminal tool (PPO)), release and pull out the Terminal for the GREEN wire. (Fig. 5-3)

(1) Verify the correct Wire is chosen.



- (g) Insert the Terminal at the end of the RES Harness' GREEN Wire into the white 12P Connector, and close the Retainer. (Fig. 5-4)

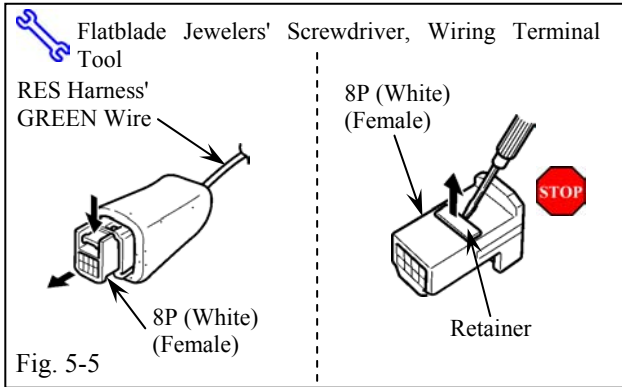
(1) Turn the connector so the Wires face you and the Tab is on top.

(2) Verify the correct opening is chosen.

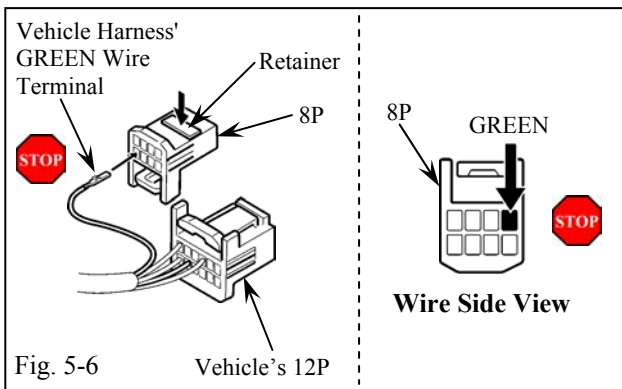
(3) Verify the terminal is inserted and seated properly.

(4) The terminal should not come out when pulled lightly from the back. If the terminal comes off, push it in further until securely seated.

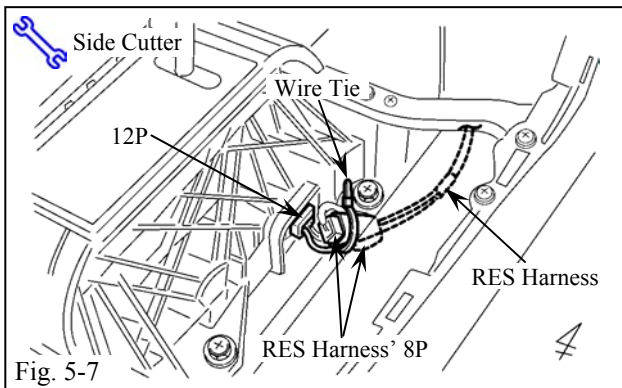
- (h) Reinstall the 12P Connector Harness' Tape covering.



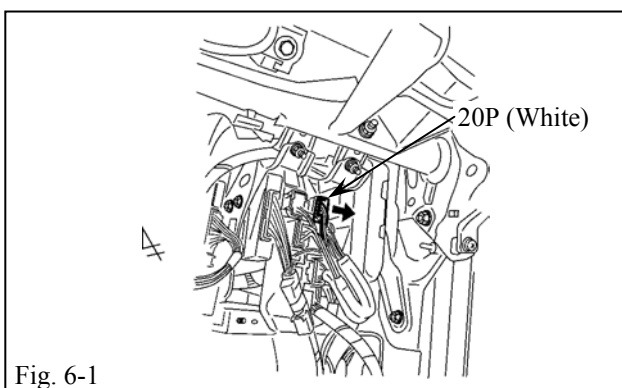
- (i) Disconnect the empty white 8P Female Connector plugged into the RES Harness. (Fig. 5-5)
- (j) Using a Small Jeweler's Screwdriver, lift up the Terminal Retainer on the Empty Connector. (Fig. 5-5)
 - (1) Do not pull out the Retainer.



- (k) Insert the Terminal at the end of the Vehicle Harness' GREEN Wire into the Empty White Female 8P Connector. Close the retainer. (Fig. 5-6)
 - (1) Turn the Connector so the Wires face you and the tab is on top.
 - (2) Verify the correct opening is chosen.
 - (3) Verify the terminal is inserted and seated properly.
 - (4) The terminal should not come out when pulled lightly from the back. If the terminal comes off, then push it in further until securely seated.

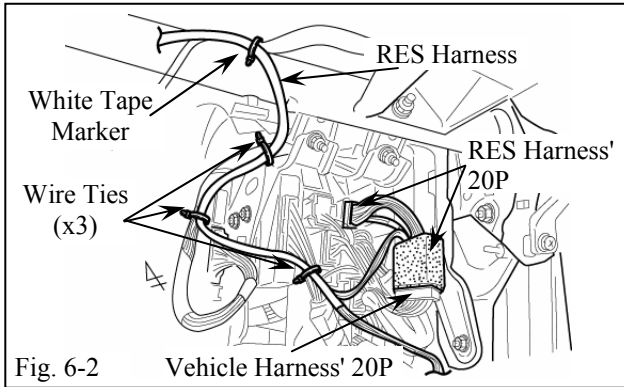


- (l) Reconnect the Vehicle's white 12P Connector to the Gear Shift Area. (Fig. 5-7)
- (m) Connect the RES Harness' 8P Female and Male Connectors, securing the 8P Connectors to the Vehicle Harness with 1 Wire Tie. (Fig. 5-7)



6. RES Harness Installation (Glove Box Area).

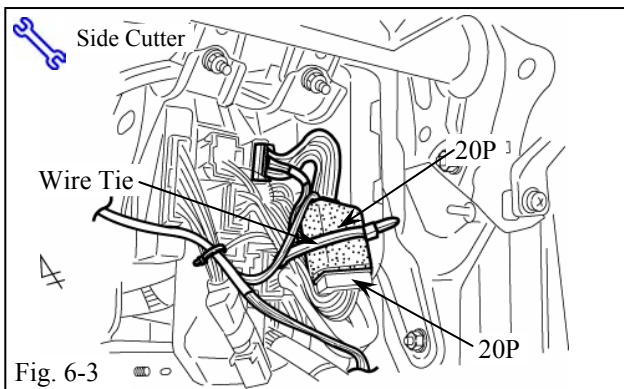
- (a) Locate and disconnect the white 20P Connector from the Connector Block in the upper right area of the Glove Box. (Fig. 6-1)



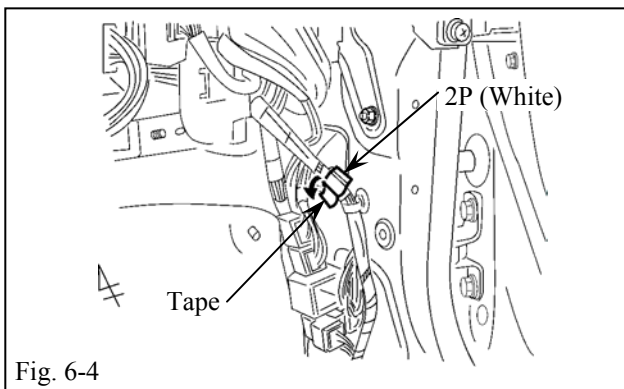
(b) Route the RES Harness through the Glove Box Area and secure it with 3 Wire Ties as shown. (Fig. 6-2)

(c) Plug in the RES Harness' white 20P Connectors between the Vehicle Harness' 20P Connector and Connector Block in the Glove Box Area. (Fig. 6-2)

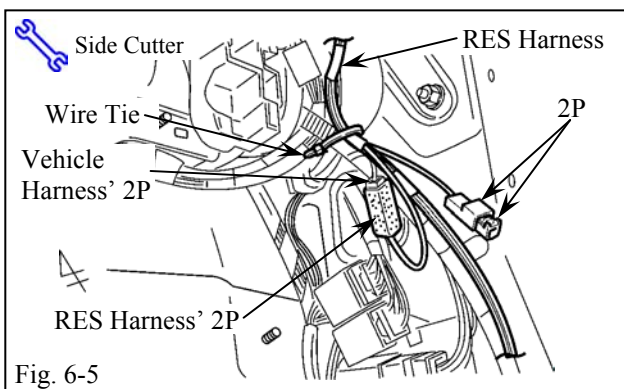
(1) Verify the Connectors are plugged in securely



(d) Secure the white 20P Connector to the Vehicle Harness with 1 Wire Tie. (Fig. 6-3)



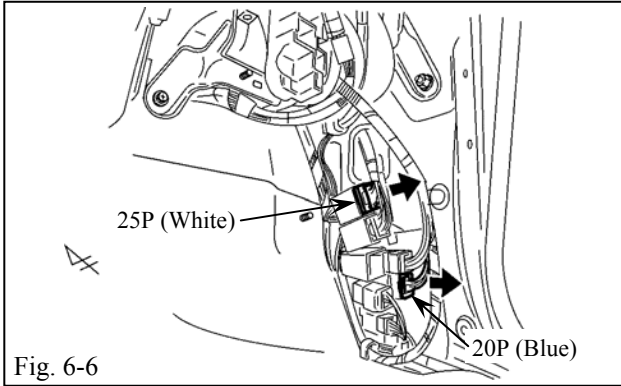
(e) Locate and remove the Tape securing the Vehicle Harness' white 2P Connector from the right side of the Glove Box Area. (Fig. 6-4)



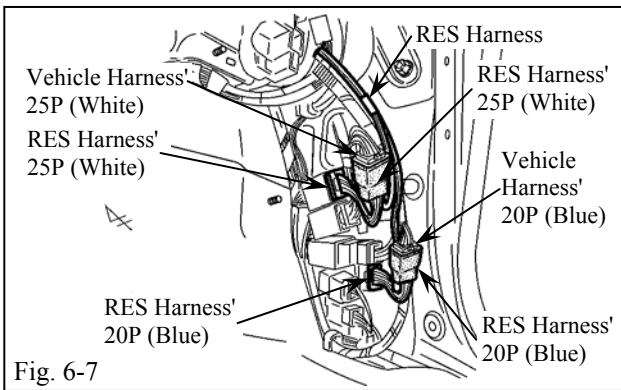
(f) Plug in the RES Harness's white 2P Connector to the Vehicle Harness's white 2P Connector. (Fig. 6-5)

(1) Verify Connectors are plugged in securely.

(g) Secure the RES Harness to the Vehicle Harness with 1 Wire Tie. (Fig. 6-5)



- (h) Locate and disconnect the Vehicle Harness's white 25P Connector and blue 20P Connector from the Passenger Side Cowl Area. (Fig. 6-6)

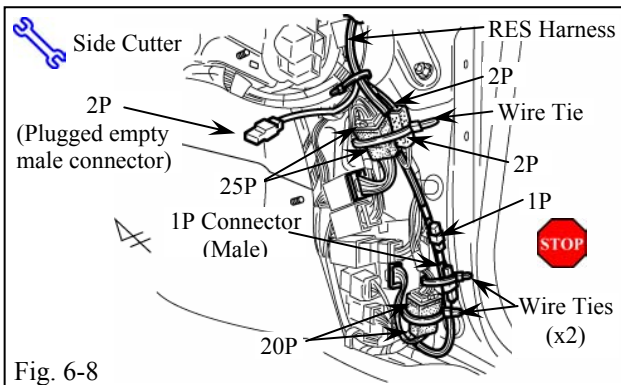


- (i) Plug in the RES Harness' white 25P Connectors between the Vehicle Harness's White 25P Connector and the Passenger Side Cowl Area. (Fig. 6-7)

(1) Verify the Connectors are plugged in securely.

- (j) Plug in the RES Harness' blue 20P Connectors between the Vehicle Harness's blue 20P Connector and the Passenger Side Cowl Area. (Fig. 6-7)

(1) Verify the Connectors are plugged in securely.



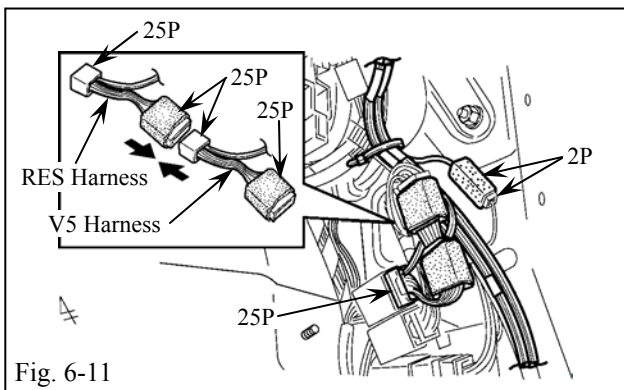
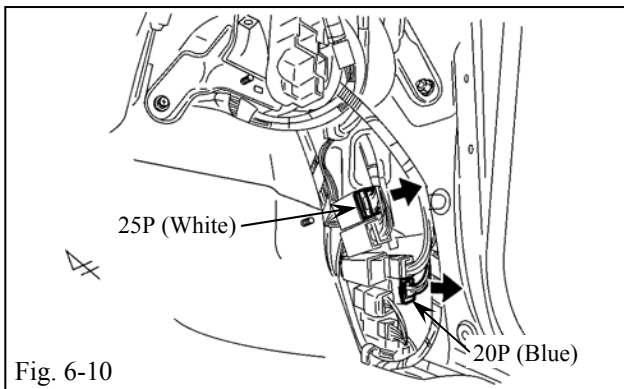
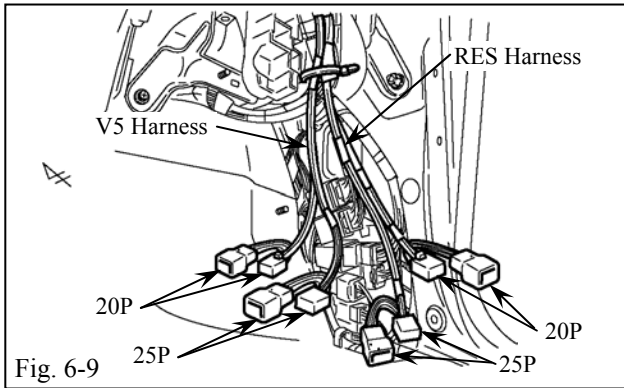
- (k) Secure the white 25P and white 2P Connectors to the Vehicle Harness with 1 Wire Tie. (Fig.6-8)

(1) Do not secure the 2P (plugged in empty male connector) with the Wire Tie.

- (l) Secure the blue 20P Connectors to the Vehicle with 1 Wire Tie. (Fig. 6-8).

- (m) Secure the 1P Connector (Male) to the RES Harness and the Vehicle Harness with 1 Wire Tie. (Fig. 6-8)

If only installing the V4 System go to step v.



Note: Perform this step if both the RES Harness and V5 Harness are being installed. (Steps n-u)

- (n) Route the RES Harness and V5 Harness to the Passenger Side Cowl Area. (Fig. 6-9)
- (o) Locate and disconnect the Vehicle Harness's white 25P Connector and blue 20P Connector from the Passenger Side Cowl Area. (Fig. 6-10)
- (p) Connect the RES Harness' white 25P Male Connector to the V5 Harness' white 25P Female Connector. (Fig. 6-11)
- (q) Plug in the RES Harness' white 25P Connector into the Passenger Side Cowl Area. Then connect the V5 Harness's white 25P Connector to the Vehicle Harness's white 25P Connector. (Fig. 6-11)
 - (1) Verify the Connectors are plugged in securely.

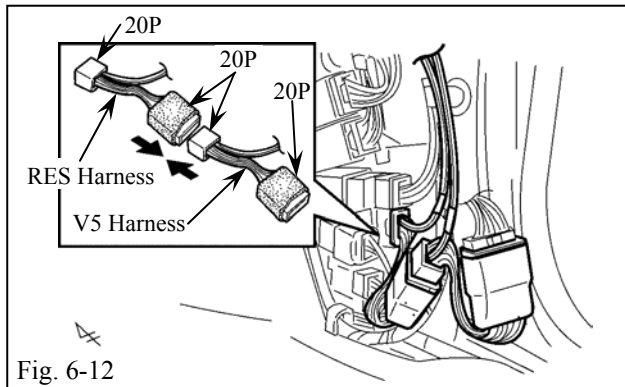


Fig. 6-12

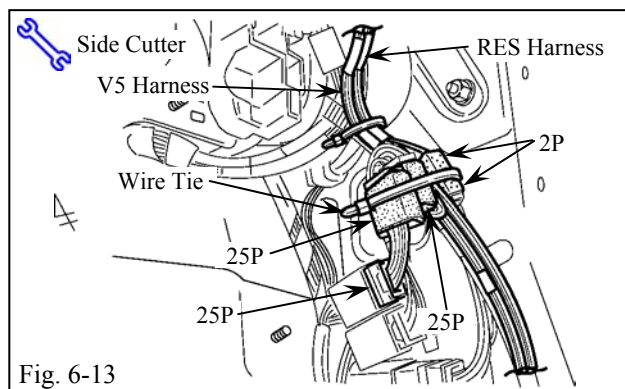


Fig. 6-13

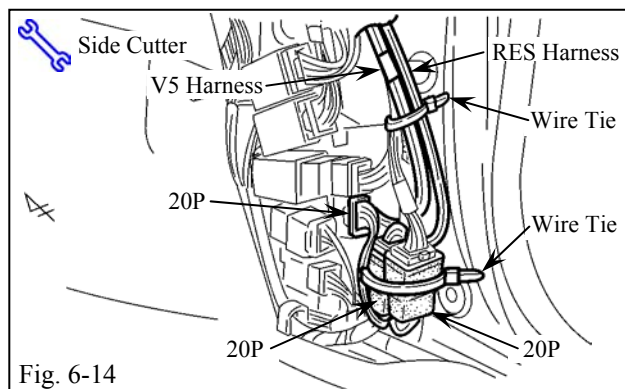


Fig. 6-14

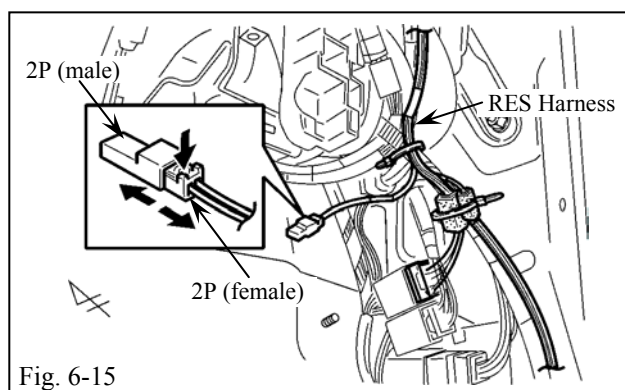


Fig. 6-15

Note: Perform this step if both RES Harness and V5 Harness are being installation. (Steps n-u)

- (r) Connect the RES Harness's blue 20P Male Connector to the V5 Harness' blue 20P Female Connector. (Fig. 6-12)
- (s) Plug in the RES Harness' blue 20P Connector into the Passenger Side Cowl Area. Then connect the V5 Harness's blue 20P Connector to the Vehicle Harness's blue 20P Connector. (Fig. 6-12)
 - (1) Verify the Connectors are plugged in securely.
- (t) Secure the white 25P Connectors, RES Harness, V5 Harness and white 2P Connectors to the Vehicle Harness with 1 Wire Tie. (Fig. 6-13)
- (u) Secure the V5 Harness and V4 Harness to the Vehicle Harness with 1 Wire Tie. Secure the blue 20P Connectors to the Vehicle Harness with 1 Wire Tie. (Fig. 6-14)
- (v) Locate the RES Harness's white 2P Connector (plugged in empty Male connector) in the Passenger Side Cowl Area. (Fig. 6-15)
- (w) Disconnect the white Male 2P Connector. (Fig. 6-15)

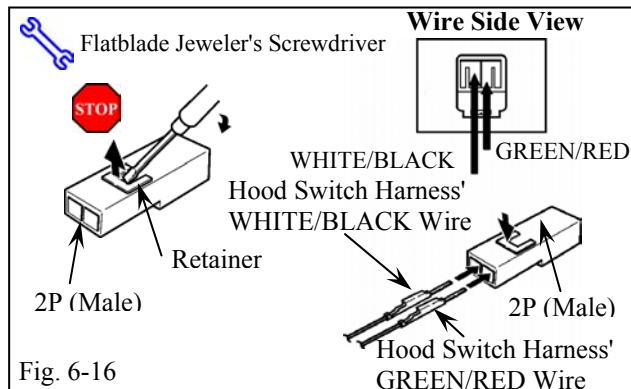


Fig. 6-16

(x) Using a Flatblade Jeweler's Screwdriver, lift the Terminal Retainer on the back of the empty Connector. (Fig. 6-16)

(1) Do not pull out the retainer.

(y) Locate the already installed Hood Switch Harness from the Glove Box Area.

(z) Insert the WHITE/BLACK Wire Terminal at the end of the Hood Switch Harness into the empty 2P Connector's left side opening. (Fig. 6-16)

(1) Turn the Connector so the Wires face you.

(2) Verify the correct wire is chosen.

(aa) Insert the GREEN/RED Wire Terminal at the end of the Hood Switch Harness into the empty 2P Connector's right side opening. (Fig. 6-16)

(1) Turn the Connector so the Wires face you.

(2) Verify the correct wire is chosen.

(bb) Close the retainer. (Fig. 6-16)

(1) The terminal should not come out when pulled lightly from the back. If the terminal comes off, then push it in further until securely seated.

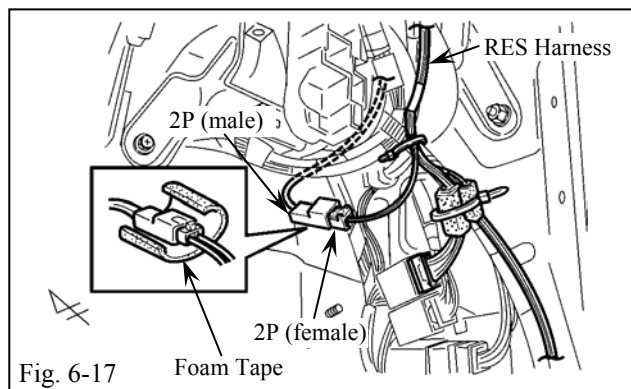
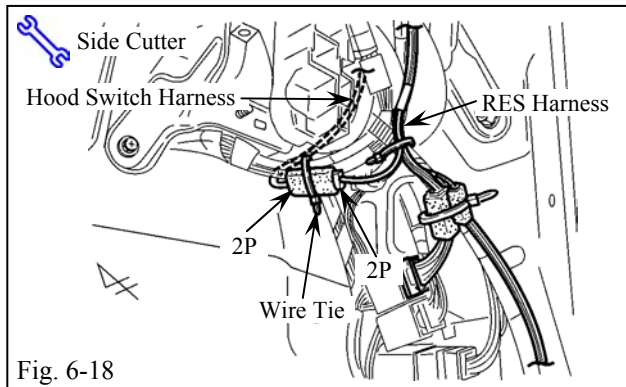


Fig. 6-17

(cc) Connect the RES Harness' Male 2P Connector to the Female 2P Connector. Wrap the 2P connector with 1 Foam Tape. (Fig. 6-17)



(dd) Secure the 2P Connector to the Vehicle Harness with 1 Wire Tie. (Fig. 6-18)

This concludes Procedure I - Japan Built for the Camry Hybrid V4 Installation.

Go to Procedure III.

Procedure II - U.S. Built Vehicle

NOTE: This installation instruction covers both V5 harness and RES harness installation.

The differences are highlighted in the procedure as follows:

- Plain text used for RES system installation (no text box).

- Solid Lined Text Boxes are used for both RES Harness and V5 Harness installation.

Dash Lined Text Boxes are used for Vehicles equipped with a Moon Roof.

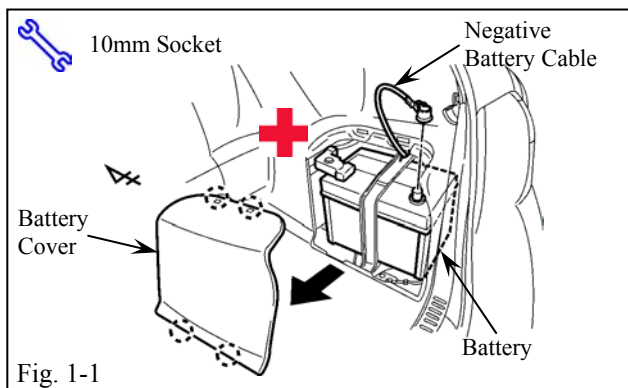


Fig. 1-1

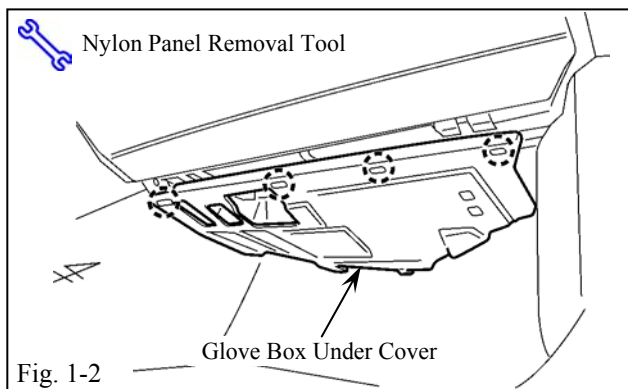


Fig. 1-2

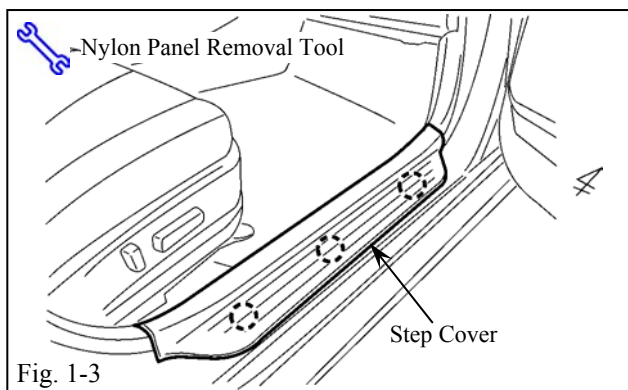


Fig. 1-3

1. Vehicle Disassembly.

(a) Vehicles with Automatic Transmission should be placed in Low Gear and have the Parking Brake set.

(b) Remove the Battery Cover from the Passenger Side Luggage Compartment. Then disconnect the Negative Battery Cable. (Fig. 1-1)

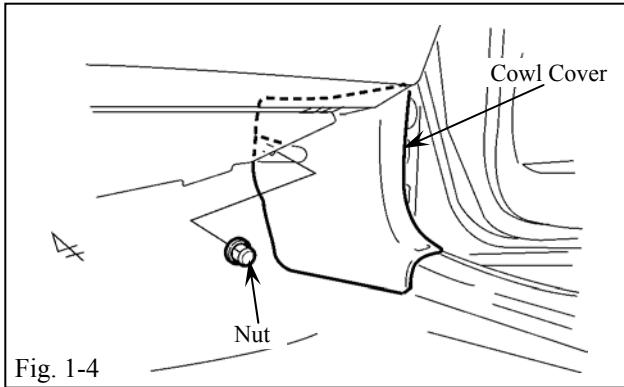
(1) Note the Battery Cable position, as it will be re-installed in the same position.

(2) Avoid touching the Positive Battery Terminal.

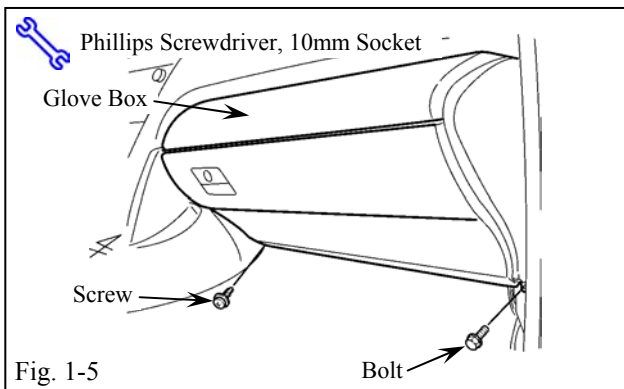
(c) Remove the Glove Box Under Cover. (Fig. 1-2)

(1) Protect the Vehicle Interior before starting.

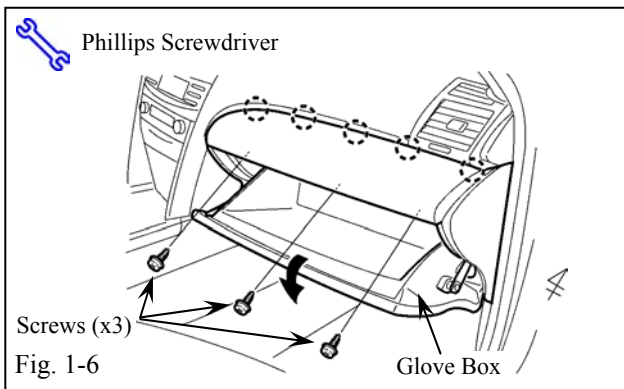
(d) Remove the Passenger's Step Cover. (Fig. 1-3)



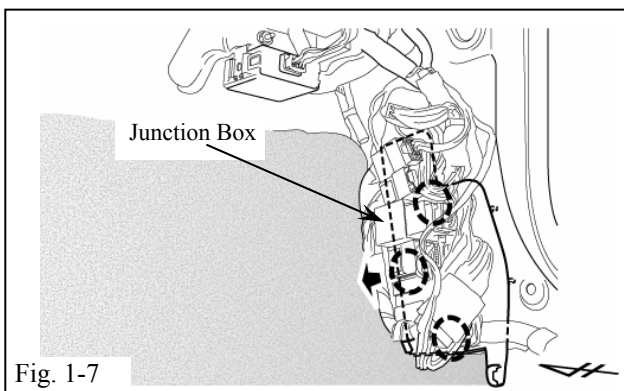
- (e) Remove the Passenger's Cowl Cover.
(Fig. 1-4)
- (1) Remove 1 Nut.



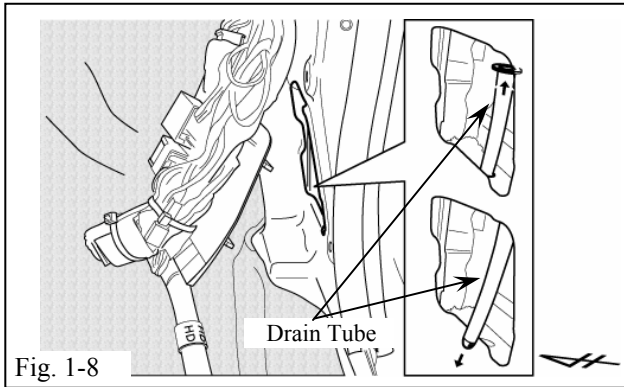
- (f) Remove 1 Screw and 1 Bolt from the Glove Box. (Fig. 1-5)



- (g) Open the Glove Box Door. Then remove 3 Screws securing the Glove Box. (Fig. 1-6)
- (h) Remove the Glove Box. (Fig. 1-6)

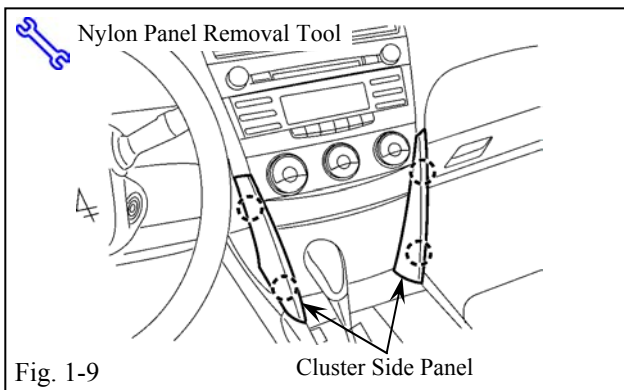


- (i) Remove the Passengers Side Junction box.
(Fig. 1-7)

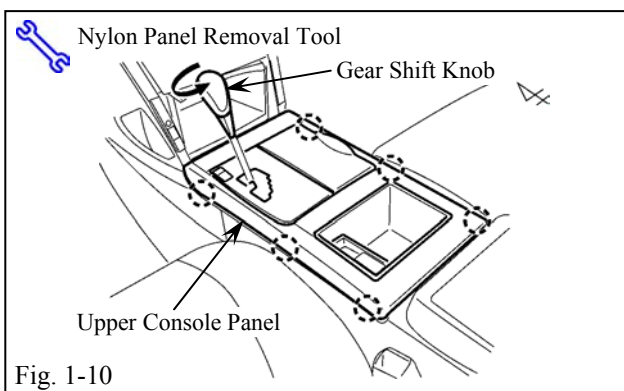


Note: Perform this step if the Vehicle has a Moon Roof. (Step j)

- (j) Locate and remove the Drain Tube behind the Passengers Junction Box. (Fig. 1-8)



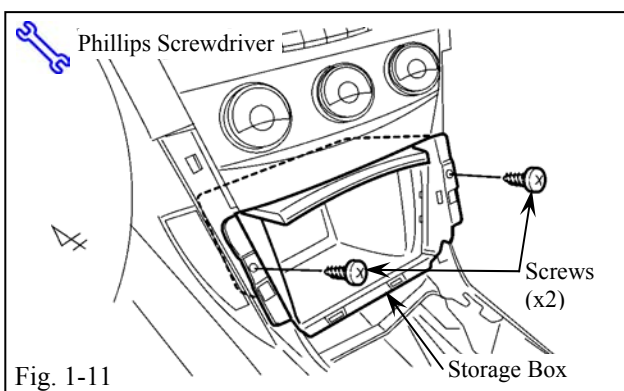
- (k) Remove the Left and Right Cluster Side Panel. (Fig. 1-9)



- (l) Remove the Gear Shift Knob. (Fig. 1-10)

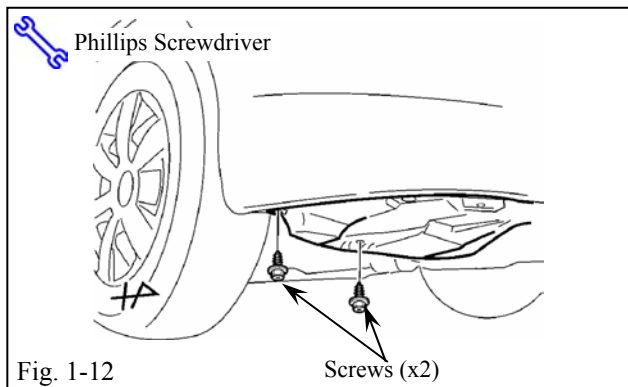
- (m) Remove the Upper Console Panel (Fig. 1-10)

- (1) Disconnect all Cables and Connectors from behind the Console Panel.



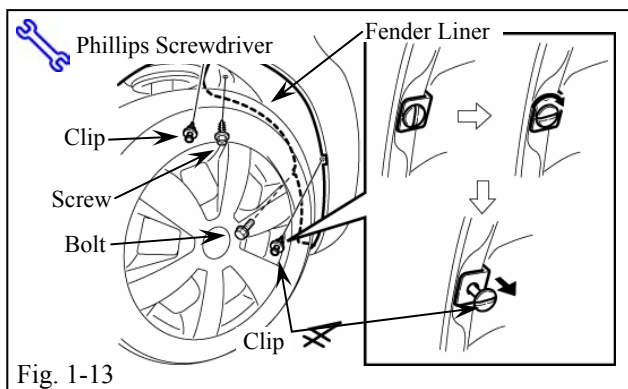
- (n) Remove the Storage Box. (Fig. 1-11)

- (1) Remove 2 Screws.



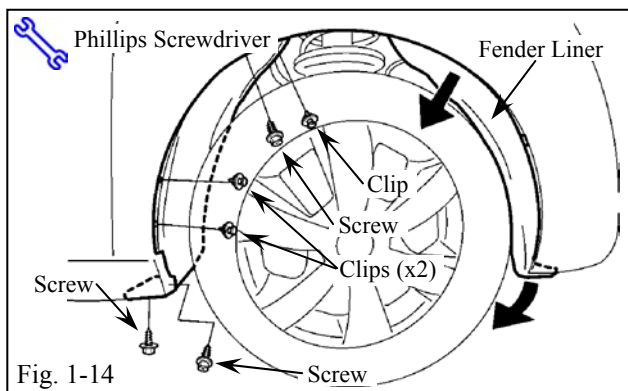
(o) Loosen the Engine Compartment Under Cover. (Fig. 1-12)

(1) Remove 2 screws.



(p) Remove 2 Clips, 1 Screw and 1 Bolt from the Passenger Side Fender Liner. (Fig. 1-13)

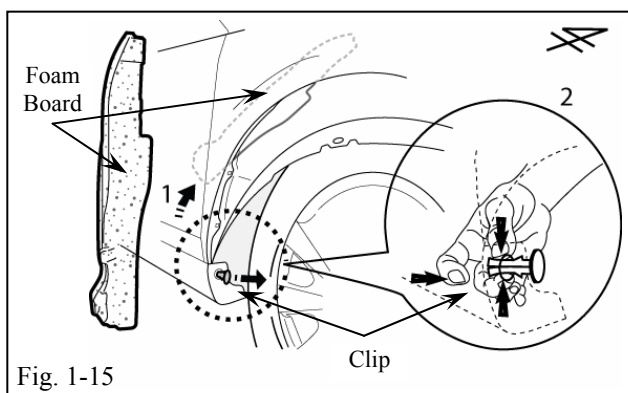
(1) To remove the Clips turn the Clip clockwise at an angle of 90°, then pull out the clip.



(q) Remove 3 clips and 3 screws from the fender liner. (Fig. 1-14)

(r) Pull the Fender Liner away from the Fender. (Fig. 1-14)

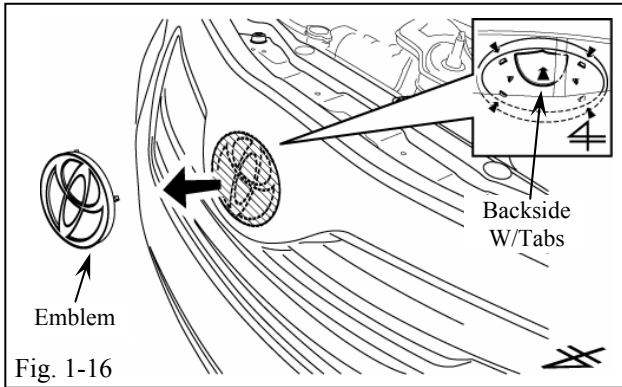
(1) The Fender has one remaining clip securing it to the vehicle and cannot be removed completely.



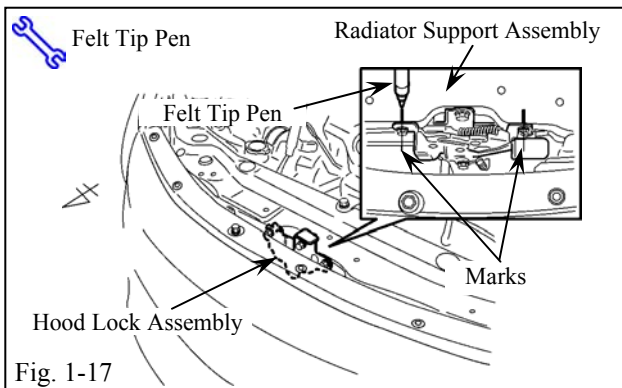
(s) Push the Foam Board upward to gain access to clip. (Fig. 1-15)

(t) Remove the Clip and then remove the Passenger Side Fender Liner. (Fig. 1-15)

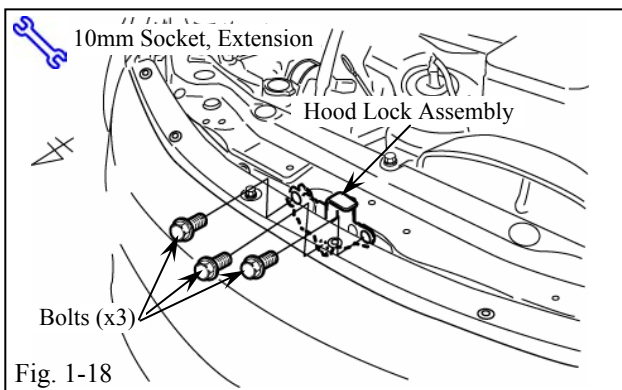
(u) Remove the Foam Board from the Passenger's Side Fender Area. (Fig. 1-15)



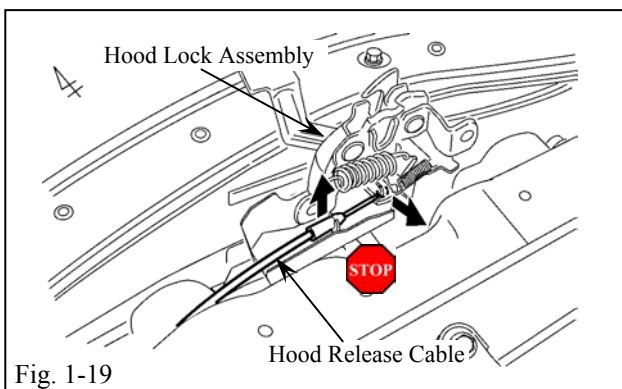
- (v) Remove the Emblem from the Front of the Vehicle. (Fig. 1-16)
- (1) Push in on the Emblem Tabs on the backside of the Emblem.



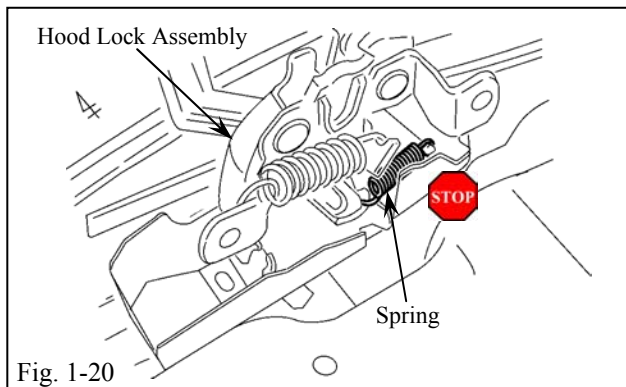
- (w) Using a Felt Tip Pen, mark the Radiator Support Assembly and Hood Lock Assembly as shown. (Fig. 1-17)



- (x) Remove the Hood Lock Assembly. (Fig. 1-18)
- (1) Remove three 10mm Bolts.

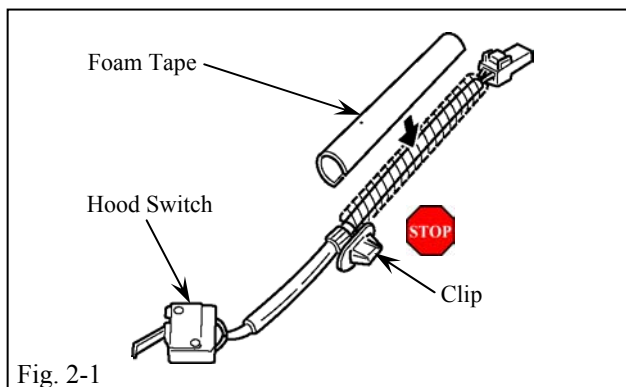


- (y) Remove the Hood Release Cable from the Hood Lock Assembly. (Fig. 1-19)
- (1) Do not bend the Hood Release Cable.



(z) Remove the Spring from the Hood Lock Assembly. (Fig. 1-20)

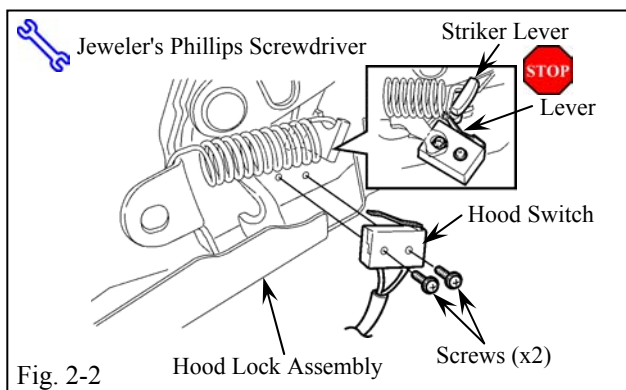
(1) Do not bend the Spring.



2. Hood Switch and Hood Switch Harness Preparation and Installation.

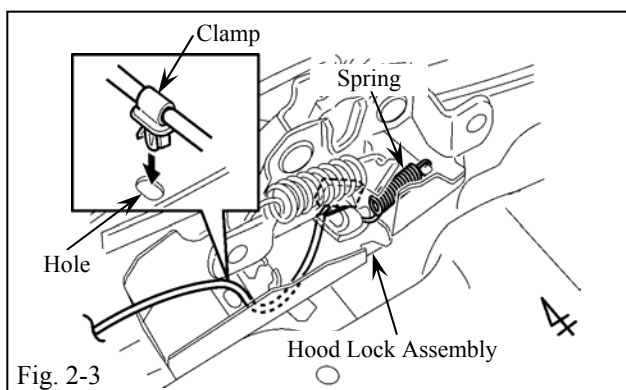
(a) Wrap the Hood Switch Harness with 1 Foam Tape. (Fig. 2-1)

(1) Do not cover the Hood Switch Clip with the Foam Tape.



(b) Install the Hood Switch to the Hood Lock Assembly with 2 Screws. (Fig. 2-2)

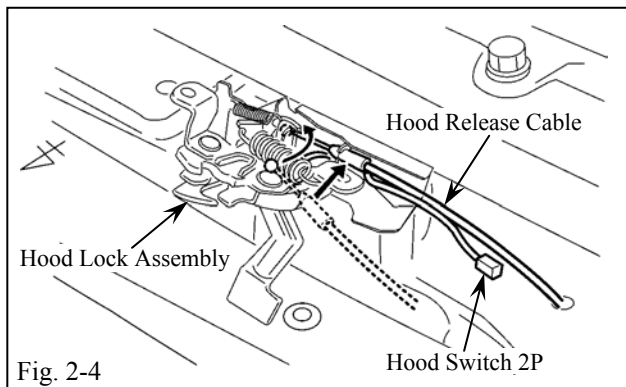
(1) Put the Hood Switch Lever on the bottom of the Hood Lock Striker Lever.



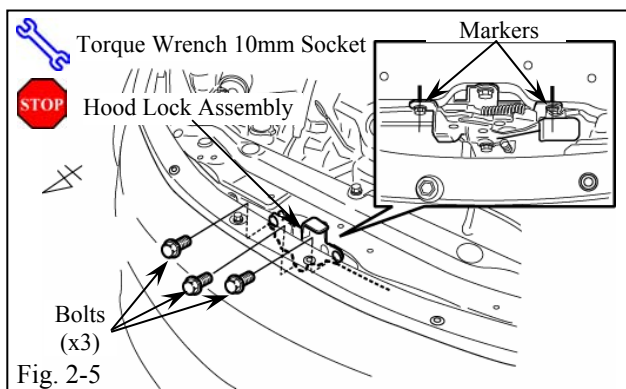
(c) Refit the Spring to the Hood Lock Assembly. (Fig. 2-3)

(d) Secure the Hood Switch Harness Clamp into the Hole of the Hood Lock Assembly. (Fig. 2-3)



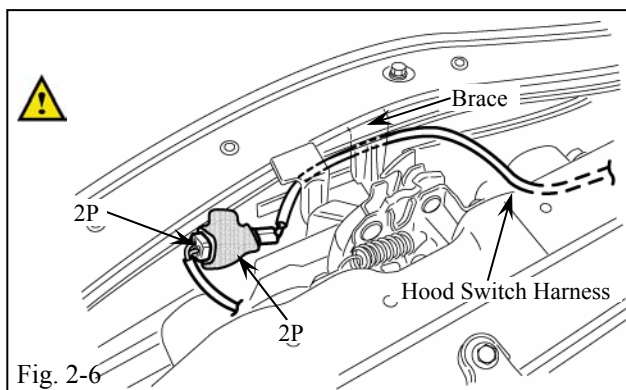


(e) Refit the Hood Release Cable to the Hood Lock Assembly. (Fig. 2-4)



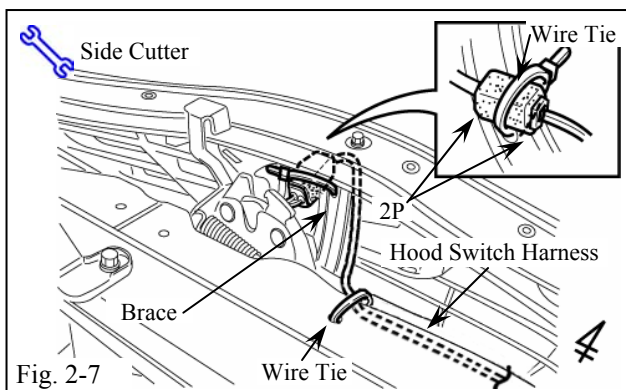
(f) Temporarily install the Hood Lock Assembly with 3 Bolts. Position the Hood Lock Assembly to the Radiator Support Assembly by aligning the marks made in Fig. 1-17. Tighten the 3 Bolts. (Fig. 2-5)

(1) Tighten the 3 bolts to 66.4 in•lbf ± 1.5 (7.5 N•m ± .2).



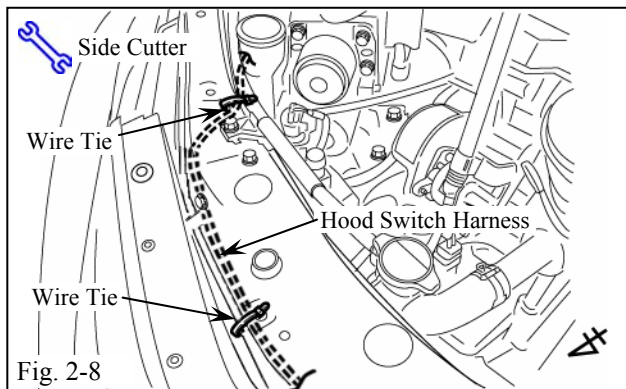
(g) Route the Hood Switch Harness behind the Brace. Then connect the Hood Switch's White 2P Connector to the Hood Switch Harness' White 2P Connector. (Fig. 2-6)

(1) Verify the connectors are plugged in securely.

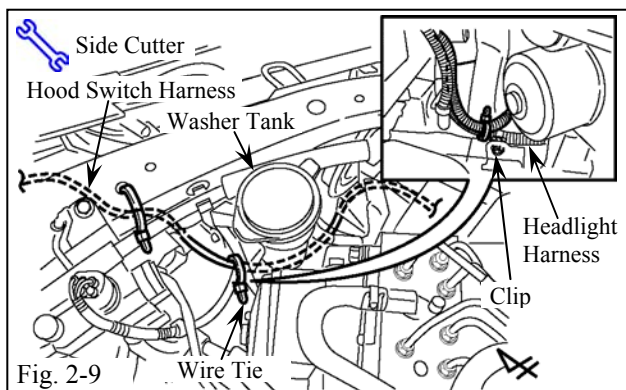


(h) Secure the 2P Connector to the Hole of the Brace with 1 Wire Tie. (Fig. 2-7)

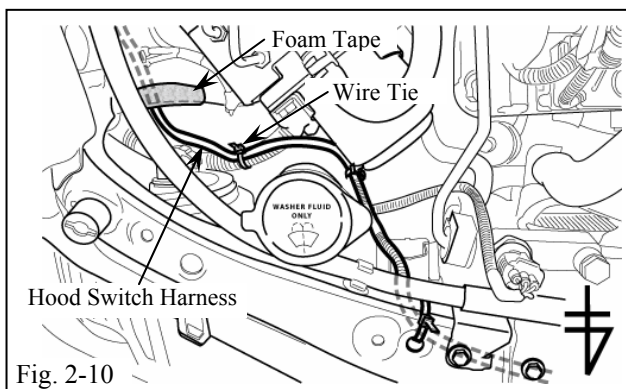
(i) Route the Hood Switch Harness along the underside of the Radiator Support Assembly and toward the Passenger Side. Secure it to the Hole of the Radiator Support Assembly with 1 Wire Tie. (Fig. 2-7)



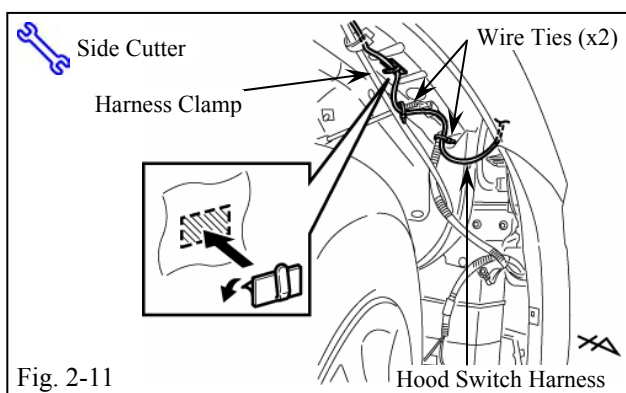
- (j) Secure the Hood Switch Harness to the Holes in the Radiator Support Assembly with 2 Wire Ties. (Fig. 2-8)



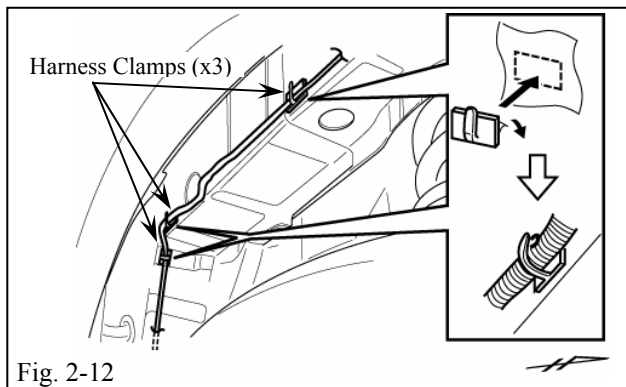
- (k) Route the Hood Switch Harness toward the Passenger Side Fender Area, then secure it to the Vehicle Harness Clamp (Headlight Harness) near the ABS Actuator with 1 Wire Tie. (Fig. 2-9)



- (l) Wrap 1 piece of Foam Tape around the metal edge of the Vehicle as shown. (Fig. 2-10)
- (m) Use 1 Wire Tie to secure the Hood Switch Harness to the Vehicle Harness. (Fig. 2-10)

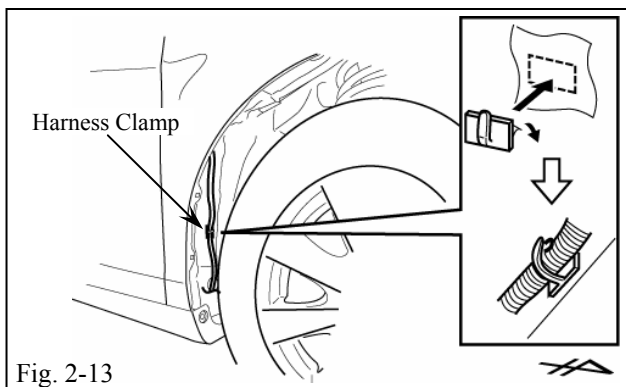


- (n) Route the Hood Switch Harness into the Passenger Side Fender Area. (Fig. 2-11)
- (o) Secure it to the Vehicle Harness with 2 Wire Ties, and 1 Harness Clamp. (Fig. 2-11)
- (1) Bend the Harness Clamp Hook to secure the Hood Switch Harness.



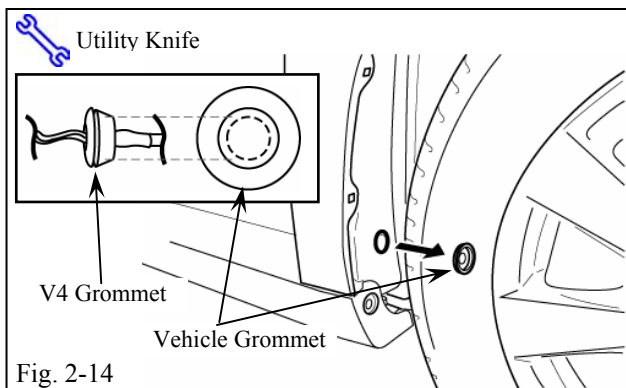
- (p) Route the Hood Switch Harness along the Top of the Passengers Fender Area. Secure it to the Vehicle with 3 Harness Clamps. (Fig. 2-12)

- (1) Bend the Harness Clamp Hooks to secure the Hood Switch Harness.



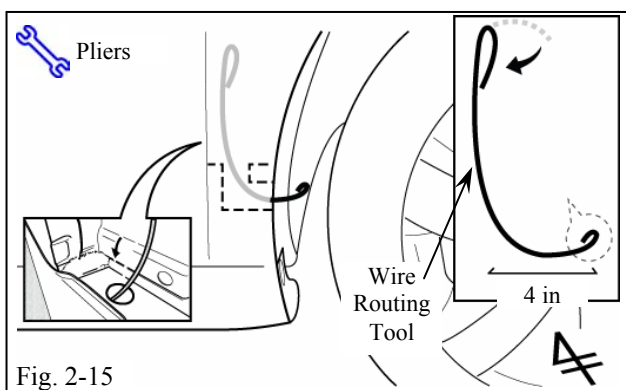
- (q) Route the Hood Switch Harness along the Backside of the Passengers Fender Area towards the bottom of the vehicle. Secure it to the Vehicle with 1 Harness Clamp. (Fig. 2-13)

- (1) Bend the Harness Clamp Hook to secure the Harness.



- (r) Remove the Vehicle Grommet from the Backside of the Passengers Fender Area. (Fig. 2-14)

- (s) Using a Utility Knife cut a 5/8" hole in the Vehicle Grommet. (Fig. 2-14)



- (t) Using Pliers and a piece of Wire create a Wire Routing Tool. (Fig. 2-15)
- (u) Route the Wire Routing Tool through the Drain Hole in the Passengers Cowl Area as shown. (Fig. 2-15)

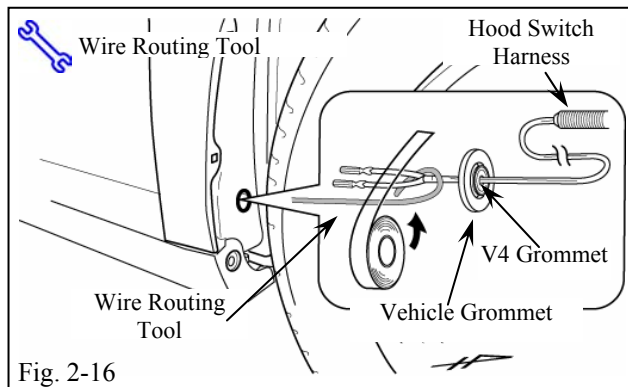


Fig. 2-16

- (v) Slide the Vehicle Grommet over the Hood Switch Harness, and insert the RES Hood Switch Harness's Grommet into the Vehicle Grommet. (Fig. 2-16)
- (w) Secure the 2 Terminals at the end of the Hood Switch Harness to the Wire Routing Tool with Insulated Tape.(Fig. 2-16)

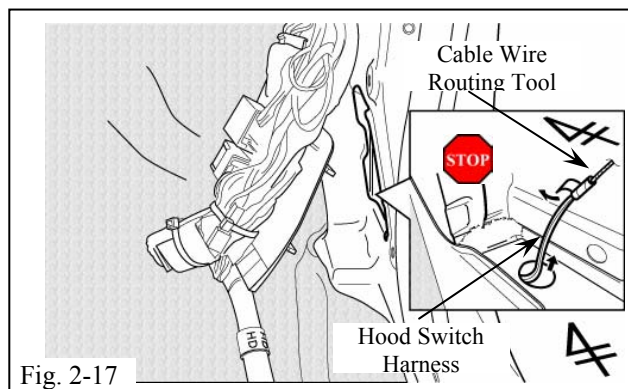


Fig. 2-17

- (x) Route the Hood Switch Harness into the Passengers Area. (Fig. 2-17)
- (y) Remove the Insulated Tape and Cable Wire Routing Tool. (Fig. 2-17)



- (1) Do not damage the Hood Switch Harness' Terminal.

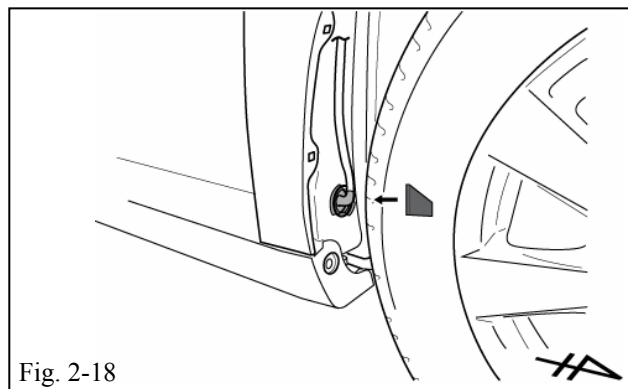


Fig. 2-18

- (z) Replace the Grommet, and cover it and the Hood Switch Harness with Butyl Tape as shown. (Fig. 2-18)

Note: Perform this step if the Vehicle has a Moon Roof. (Step aa)

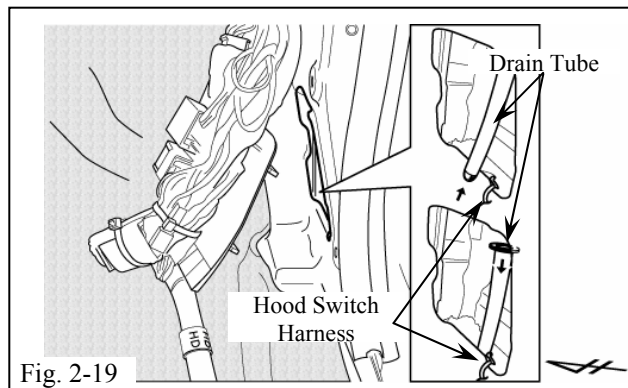


Fig. 2-19

- (aa) Replace the Drain Tube, routing the Hood Switch Harness around the Drain Tube. (Fig. 2-19)
- (1) Verify that the Drain Tube is properly seated.

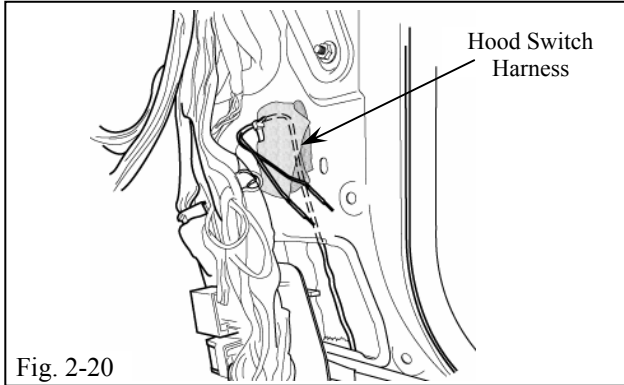


Fig. 2-20

- (bb) Route the Hood Switch Wire as shown and re-install the Passengers Side Junction Box. (Fig. 2-20)

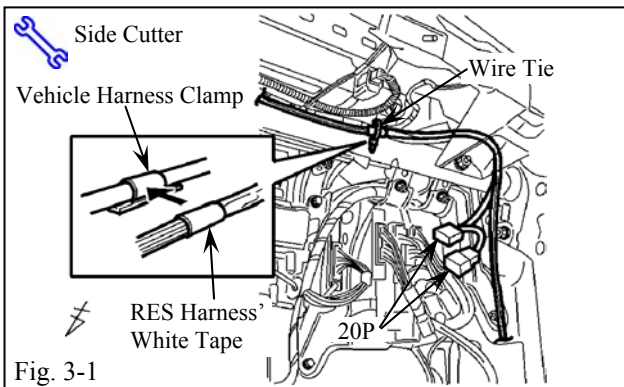


Fig. 3-1

3. RES Harness Installation.

- (a) Locate the Vehicle Harness Clamp in the Glove Box Area. Secure the White Taped Marker of the RES Harness to the Vehicle Harness Clamp with 1 Wire Tie. (Fig. 3-1)
- (1) Line up the RES Harness' White Tape Marker to the Vehicle Harness Clamp.

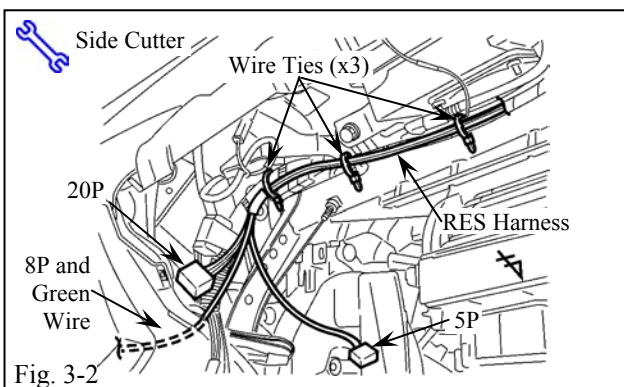
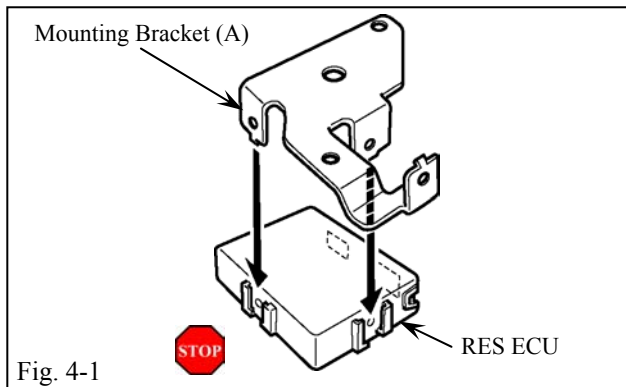


Fig. 3-2

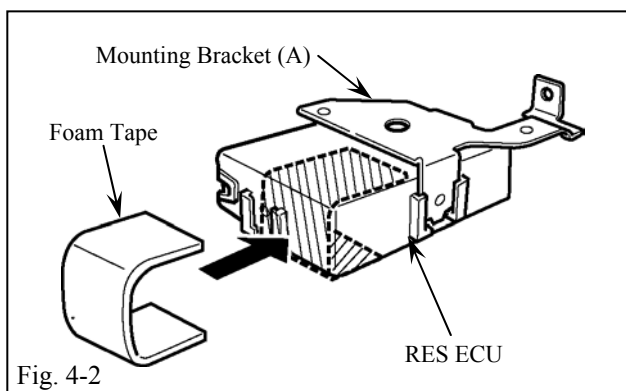
- (b) Route the RES Harness to the Center Cluster Area, securing it to the Vehicle Harness with 3 Wire Ties. (Fig. 3-2)
- (1) Route the RES Harness' White 8P Connector (connected empty female connector) and GREEN Wire to the Center Cluster Area.



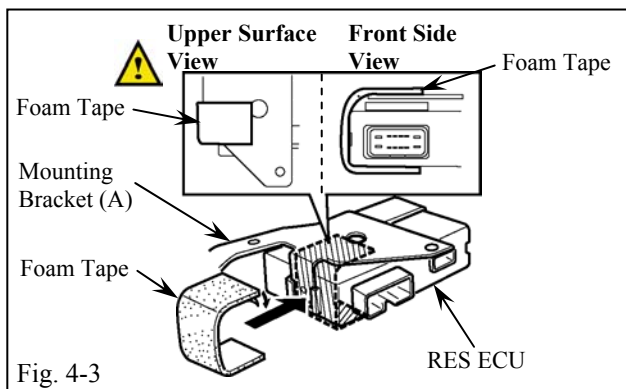
4. RES ECU and BUS ECU Preparation and Installation.

(a) Insert the RES ECU to the Mounting Bracket (A) as shown. (Fig. 4-1)

- (1) Insert the Mounting Bracket into the correct ECU's slot.
- (2) The Bracket is permanently attached once installed.
- (3) Ensure the Bracket is firmly attached to the ECU.

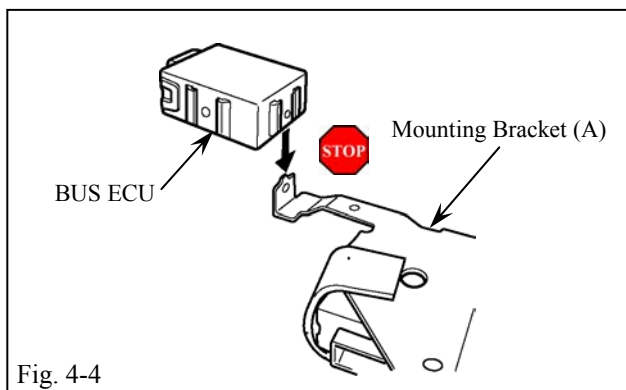


(b) Apply 1 Foam Tape to the edge of the RES ECU as shown. (Fig. 4-2)



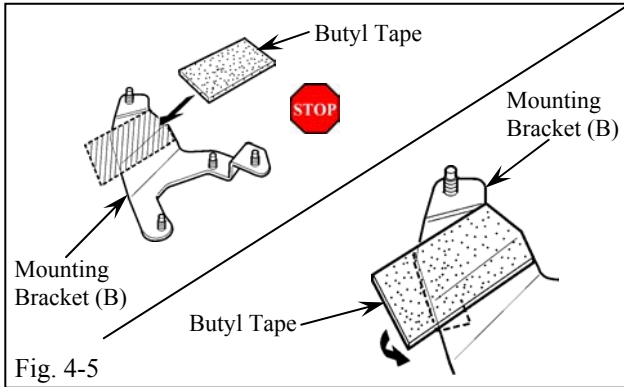
(c) Apply 1 Foam Tape to the Mounting Bracket (A) and the edge of the RES ECU as shown. (Fig. 4-3)

- (1) Do not cover the hole of the Bracket with the Foam Tape.

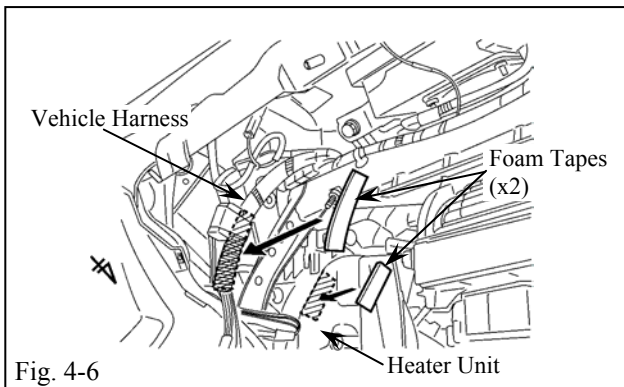


(d) Insert the BUS ECU to the Mounting Bracket (A) as shown. (Fig. 4-4)

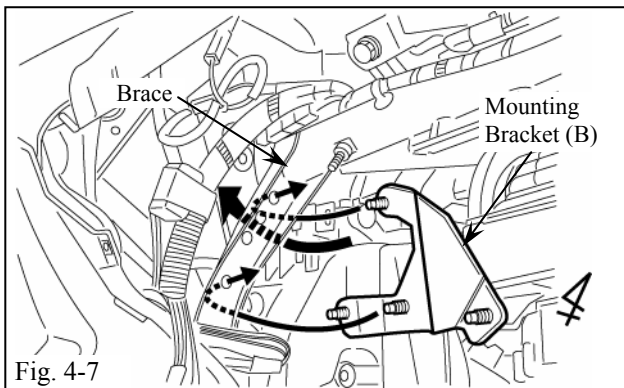
- (1) Insert the Mounting Bracket into the correct ECU's slot.
- (2) The Bracket is permanently attached once installed.
- (3) Ensure the Bracket is firmly attached to the ECU.



- (e) Affix 1 piece of Butyl Tape to the Mounting Bracket (B) as shown. (Fig. 4-5)
 - (1) Do not touch the Adhesive Surface.
 - (2) Do not remove the Top Protective Sheet from the Butyl Tape yet.
- (f) Wrap the Butyl Tape around the edge of the Mounting Bracket (B). (Fig. 4-5)

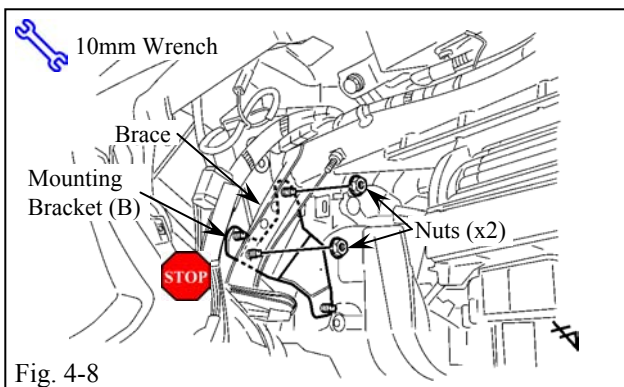


- (g) Attach 2 pieces of Foam Tape to the Vehicle Harness and Heater Unit as shown. (Fig. 4-6)



- (h) Peel off the Top Protective Sheet from the Butyl Tape. Insert the Mounting Bracket (B) into the Vehicle Brace as shown. (Fig. 4-7)

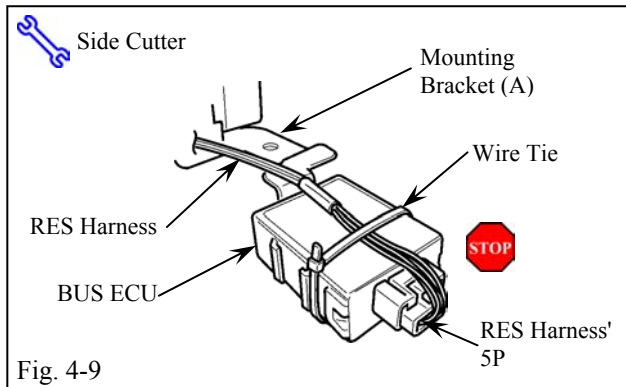
- (1) Press the mounting bracket to the heater unit firmly.



- (i) Secure the Mounting Bracket (B) to the Vehicle Brace with 2 Nuts. (Fig. 4-8)

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



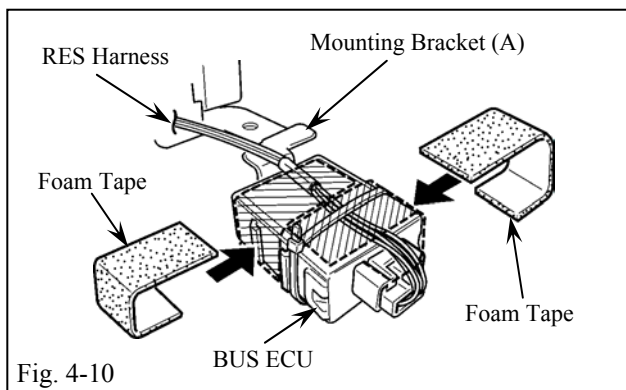


(j) Connect the RES Harness' White 5P Connector to the BUS ECU. (Fig. 4-9)



(l) Verify the Connector is plugged in securely.

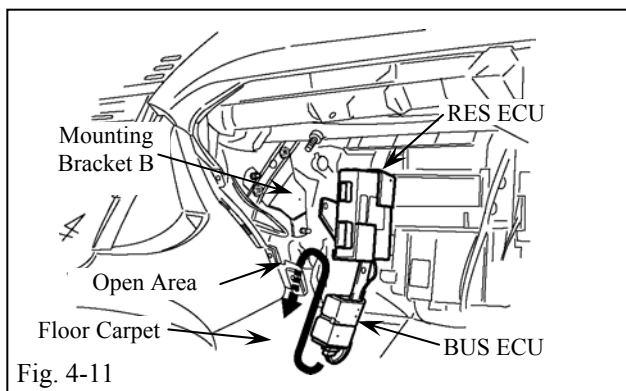
(k) Use 1 Wire Tie to secure the RES Harness to the BUS ECU. (Fig. 4-9)



(l) Attach 2 pieces of Foam Tape to the BUS ECU as shown. (Fig. 4-10)

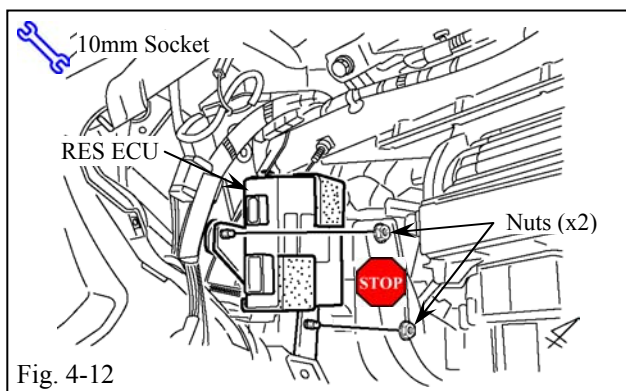


NOTE: If both RES kit and V5 kit are being installed, install the V5 (GBS) ECU first.



(m) Put the BUS ECU into the opening of the Floor Carpet and Heater Unit in the Passenger Side Center Cluster Area. (Fig. 4-11)

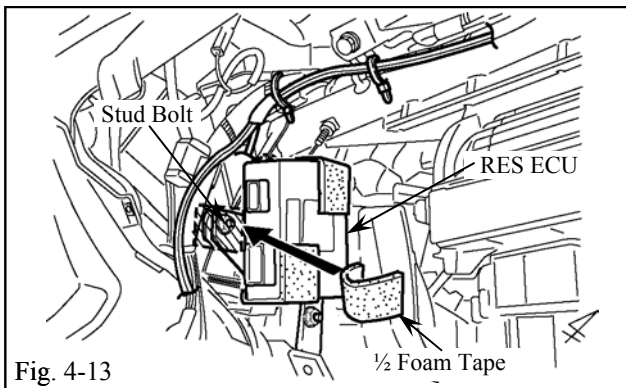
(n) Connect the Mounting Bracket (B) to Mounting Bracket (A) using the Studs on Bracket (B). (Fig. 4-11)



(o) Secure Mounting Bracket (A) to Mounting Bracket (B) with 2 Nuts. (Fig. 4-12)

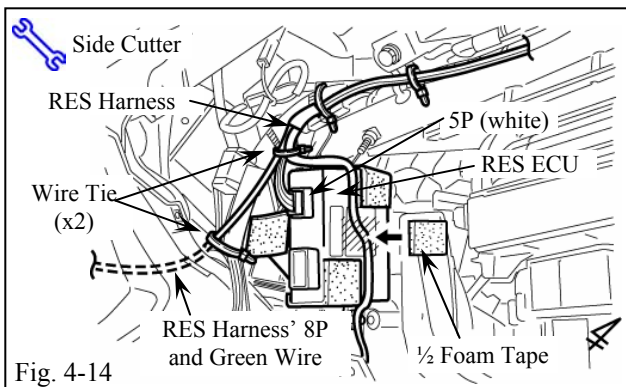


(l) Verify that the nuts are tightened securely.



(p) Cover the Mounting Bracket and Stud Bolt with 1/2 piece of Foam Tape. (Fig. 4-13)

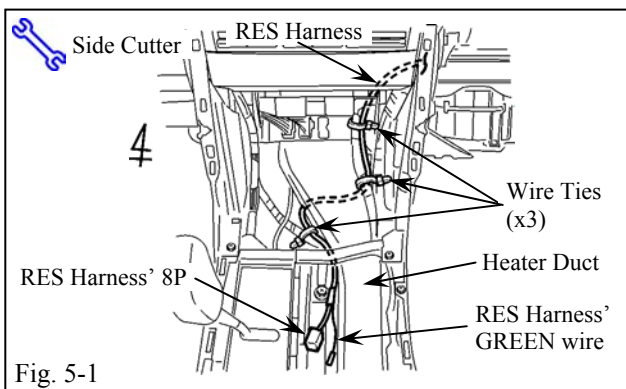
(1) Do not discard the excess Foam Tape.



(q) Connect the RES Harness's White 5P Connector to the RES ECU. (Fig. 4-14)

(r) Secure the RES Harness section with the 8P Connector and the GREEN wire to the Vehicle Harness with 2 Wire Ties. (Fig. 4-14)

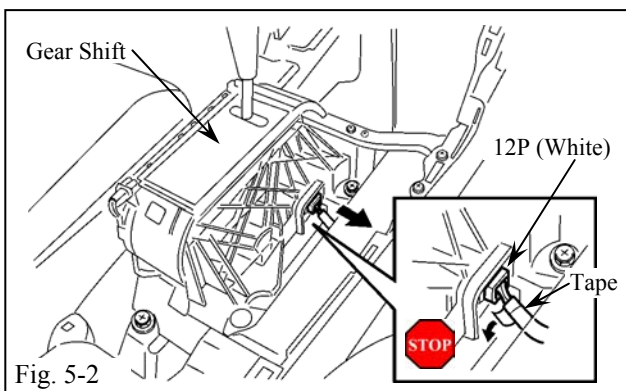
(s) Locate the RES Harness section connected to the BUS ECU and secure it to the RES ECU with 1/2 piece of Foam Tape. (Fig. 4-14)



5. RES Harness Installation (continued)
(Center Console Area)

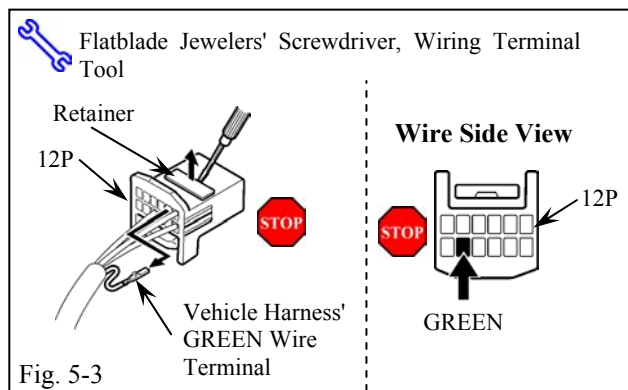
(a) Route the RES Harness' White 8P (connected empty female connector) and GREEN Wire toward the Gear Shift Area. (Fig. 5-1)

(b) Secure the RES Harness to the Vehicle Harness with 3 Wire Ties. (Fig. 5-1)



(c) Locate and disconnect the white 12P Connector from the Gear Shift Area. Then pull back the Tape covering on the 12P Connector Harness approximately 20mm. (Fig. 5-2)

(1) Do not damage the Vehicle Wires.



(d) Use a Small Jeweler's Screwdriver to lift up the Terminal Retainer on the white 12P Connector. (Fig. 5-3)

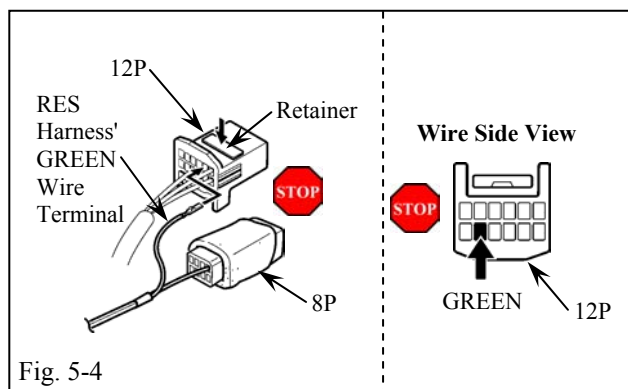
- (1) Do not pull out the retainer.

(e) Locate the GREEN Wire in the white 12P Connector.

- (1) Turn the connector so the wires face you and the tab is on top

(f) Using the Flatblade Jewelers Screwdriver (or wiring terminal tool (PPO)), release and pull out the Terminal for the GREEN wire. (Fig. 5-3)

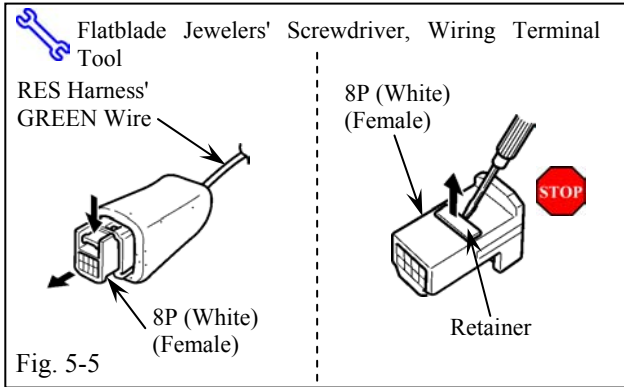
- (1) Verify the correct wire is chosen.



(g) Insert the Terminal at the end of the RES Harness' GREEN Wire into the white 12P Connector, and close the Retainer. (Fig. 5-4)

- (1) Turn the connector so the wire faces you and the Tab is on top.
- (2) Verify the correct opening is chosen.
- (3) Verify the terminal is inserted and seated properly.
- (4) The terminal should not come out when pulled lightly from the back. If the terminal comes off, then push it in further until securely seated.

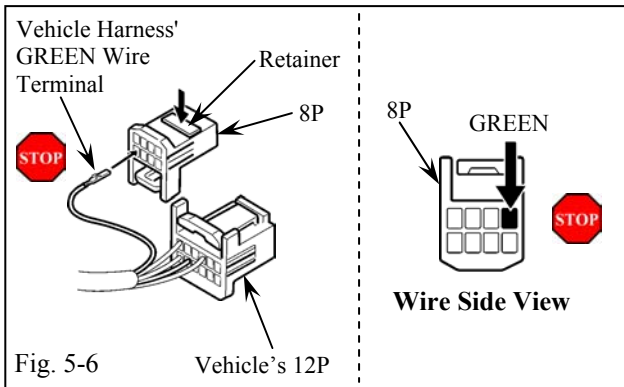
(h) Reinstall the 12P Connector Harness' Tape covering.



- (i) Disconnect the empty white 8P female connector plugged into the RES harness. (Fig. 5-5)
- (j) Using a Small Jeweler's Screwdriver, lift up the Terminal Retainer on the empty connector. (Fig. 5-5)



(1) Do not pull out the retainer.



- (k) Insert the Terminal at the end of the vehicle Harness' GREEN Wire into the Empty White Female 8P Connector. Close the retainer. (Fig. 5-6)



(1) Turn the connector so the wire faces you and the Tab is on top.

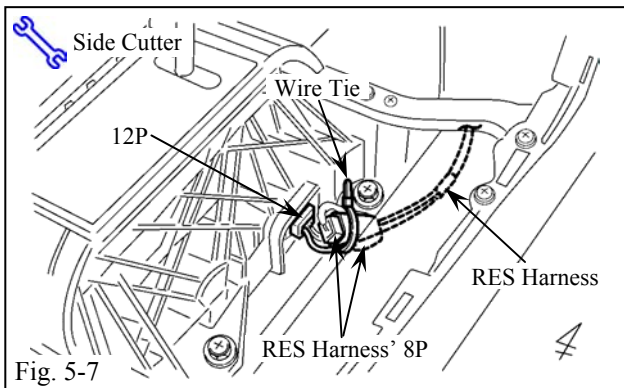


(2) Verify the correct opening is chosen.



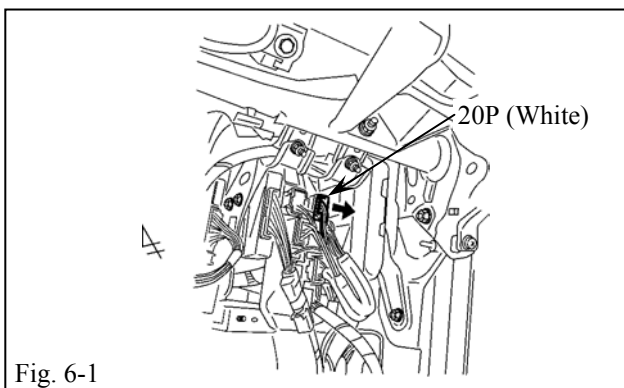
(3) Verify the terminal is inserted and seated properly.

(4) The terminal should not come out when pulled lightly from the back. If the terminal comes off, then push it in further until securely seated.



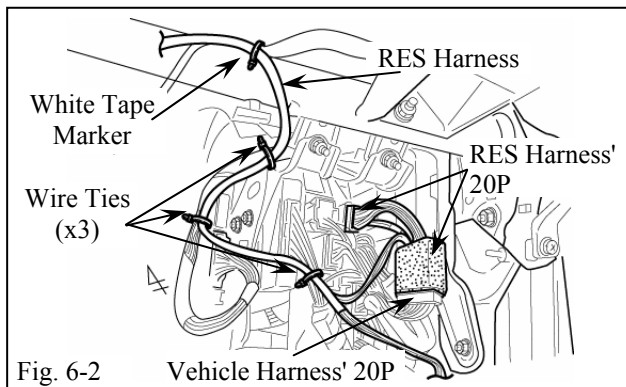
- (l) Reconnect the vehicle's white 12P connector to the gear shift area. (Fig. 5-7)

- (m) Connect the RES Harness' 8P Female and Male Connectors securing the 8P Connectors to the Vehicle Harness with 1 Wire Tie. (Fig. 5-7)

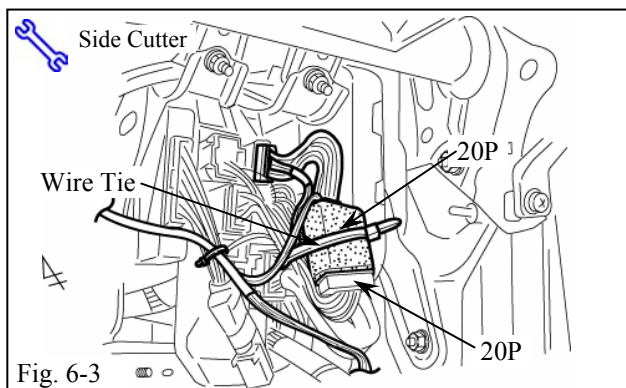


6. RES Harness Installation (Glove Box Area).

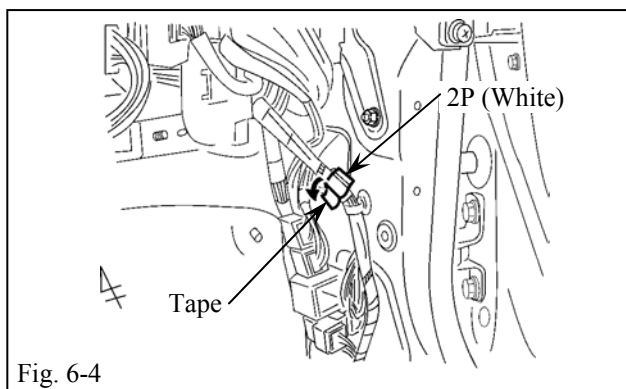
- (a) Locate and disconnect the white 20P Connector from the Connector Block in the upper right area of the Glove Box. (Fig. 6-1)



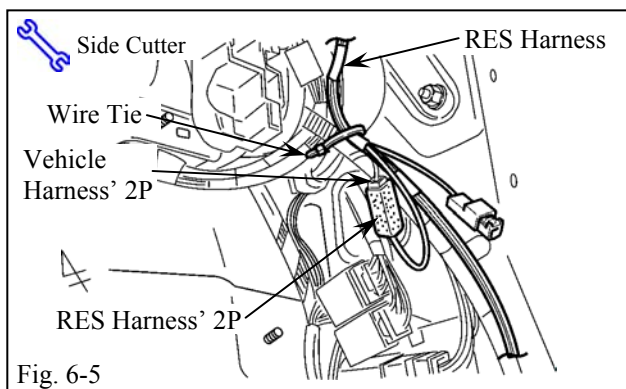
- (b) Route the RES Harness through the Glove Box Area and secure it with 3 Wire Ties as shown. (Fig. 6-2)
- (c) Plug in the RES harness' white 20P Connectors between the Vehicle Harness' 20P Connector and Connector Block in the Glove Box Area. (Fig. 6-2)
 - (1) Verify the Connectors are plugged in securely



- (d) Secure the white 20P Connector to the Vehicle Harness with 1 Wire Tie. (Fig. 6-3)



- (e) Locate and remove the Tape securing the Vehicle Harness' white 2P Connector from the right side of the Glove Box Area. (Fig. 6-4)



- (f) Plug in the RES Harness' white 2P Connector to the Vehicle Harness' white 2P Connector. (Fig. 6-5)
 - (1) Verify connectors are plugged in securely.
- (g) Secure the RES Harness to the Vehicle Harness with 1 Wire Tie. (Fig. 6-5)

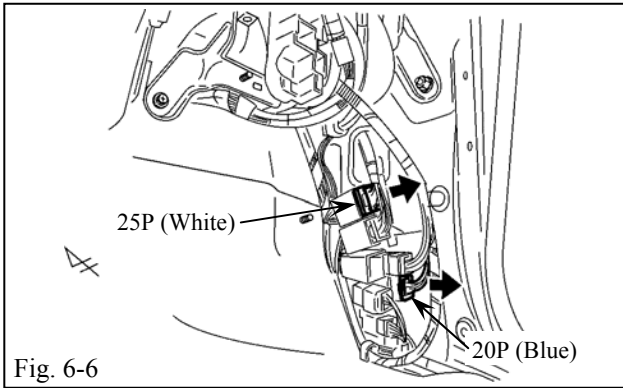


Fig. 6-6

- (h) Locate and disconnect the Vehicle Harness' white 25P Connector and blue 20P Connector form the Passenger Side Cowl Area. (Fig. 6-6)

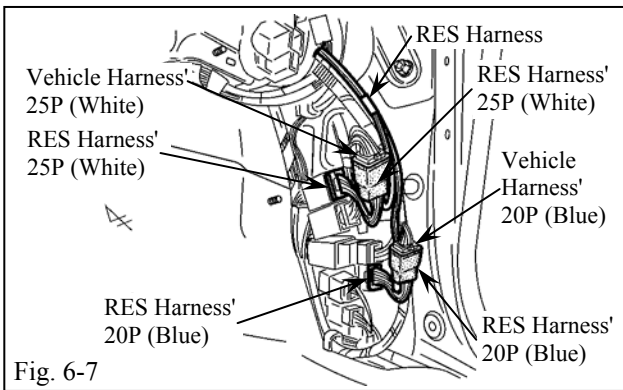


Fig. 6-7

- (i) Plug in the RES Harness' white 25P connectors between the Vehicle Harness' white 25P connector and the Passenger's Cowl Connector Block. (Fig. 6-7)
 - (1) Verify the Connectors are plugged in securely.
- (j) Plug in the RES harness' blue 20P Connectors between the Vehicle Harness' blue 20P Connector and the Passenger Side Cowl Area. (Fig. 6-7)
 - (1) Verify the Connectors are plugged in securely.

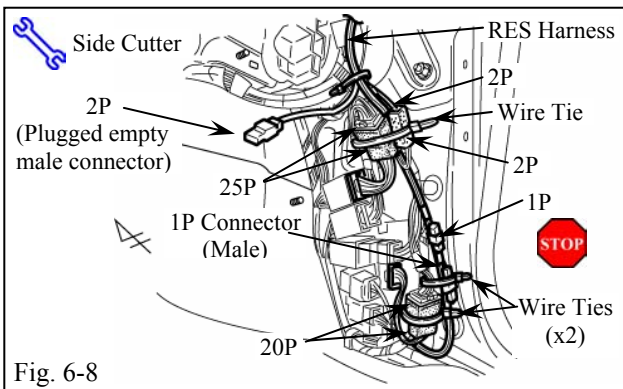
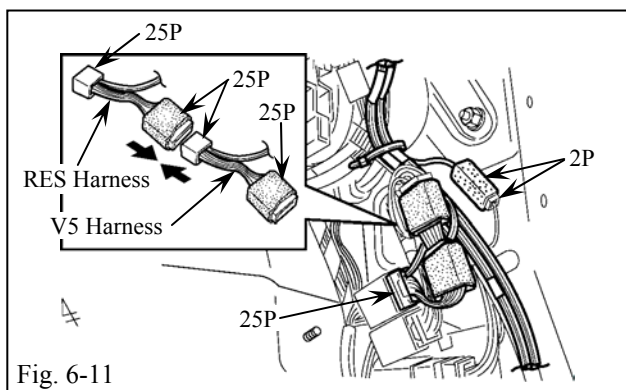
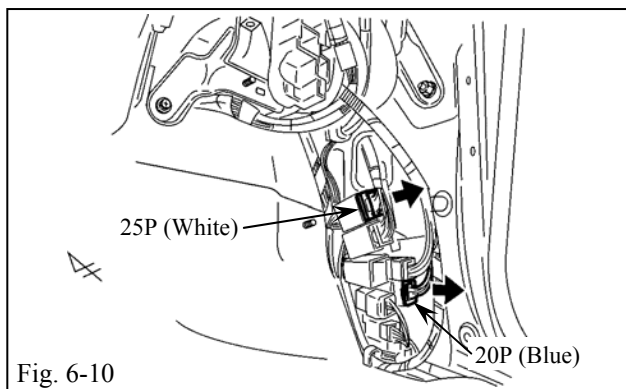
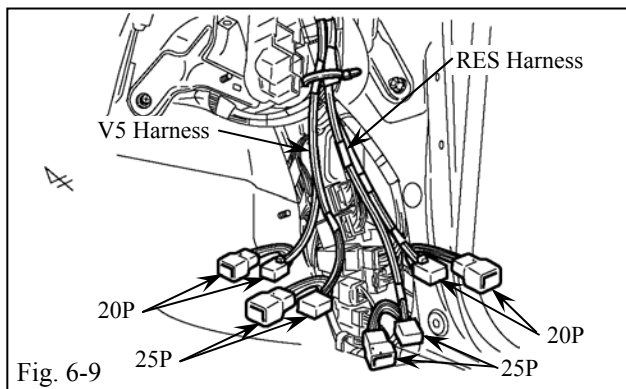


Fig. 6-8

- (k) Secure the white 25P and white 2P connectors to the Vehicle Harness with 1 Wire Tie. (Fig.6-8)
 - (1) Do not secure the 2P (plugged in empty male connector) with the Wire Tie.
 - (1) Secure the blue 20P connectors to the vehicle with 1 Wire Tie. (Fig. 6-8)
- (m) Secure the 1P Connector (Male) to the RES Harness and Vehicle Harness with 1 Wire Tie. (Fig. 6-8)

If only installing the V4 System go to step v.



Note: Perform this step if both the RES Harness and V5 Harness are being installed. (Steps n-u)

- (n) Route the RES harness and V5 Harness to the Passenger Side Cowl Area. (Fig. 6-9)
- (o) Locate and disconnect the Vehicle Harness's white 25P Connector and Blue 20P Connector from the Passenger Side Cowl Area. (Fig. 6-10)
- (p) Connect the RES Harness' white 25P Male Connector to the V5 Harness' white 25P Female Connector. (Fig. 6-11)
- (q) Plug in the RES Harness' White 25P Connector into the Passenger Side Cowl Area. Then connect the V5 Harness' White 25P Connector to the Vehicle Harness' White 25P Connector. (Fig. 6-11)
- (1) Verify the Connectors are plugged in securely.

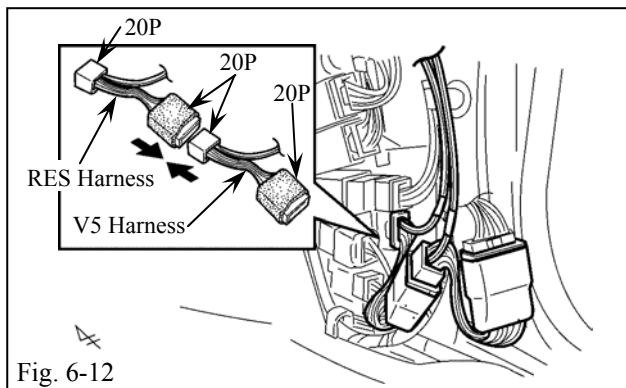


Fig. 6-12

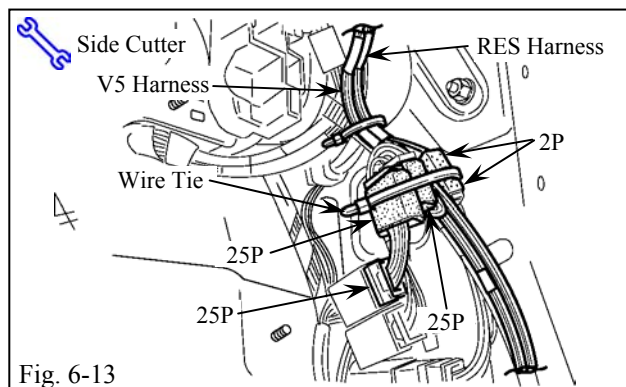


Fig. 6-13

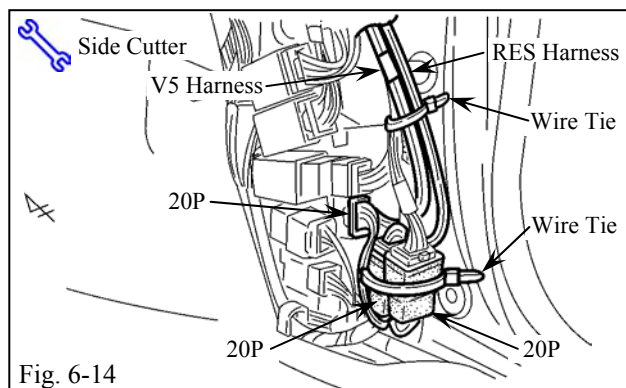


Fig. 6-14

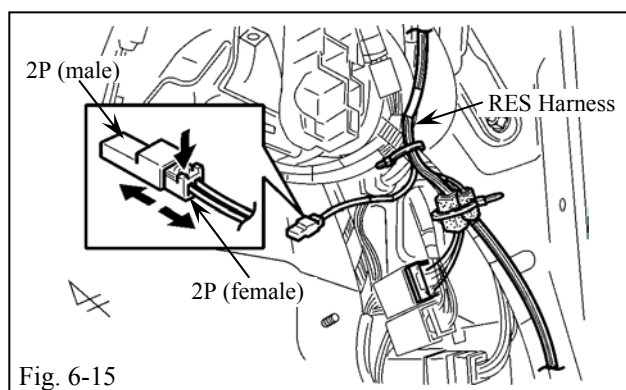


Fig. 6-15

Note: Perform this step if both RES harness and V5 harness installation. (Steps n-u)

- (r) Connect the RES Harness' Blue 20P Male Connector to the V5 Harness' Blue 20P Female Connector. (Fig. 6-12)
- (s) Plug in the RES Harness' Blue 20P Connector into the Passenger Side Cowl Area. Then connect the V5 Harness' Blue 20P Connector to the Vehicle Harness' Blue 20P Connector. (Fig. 6-12)
 - (1) Verify the Connectors are plugged in securely.
- (t) Secure the White 25P Connectors, RES Harness, V5 Harness and White 2P Connectors to the Vehicle Harness with 1 Wire Tie. (Fig. 6-13)
- (u) Secure the V5 Harness and V4 Harness to the Vehicle Harness with 1 Wire Tie. Secure the Blue 20P Connectors to the Vehicle Harness with 1 Wire Tie. (Fig. 6-14)
- (v) Locate the RES Harness' white 2P Connectors, w/attached empty Male Connector, in the Passenger Side Cowl Area. (Fig. 6-15)
- (w) Disconnect the white Male 2P Connector. (Fig. 6-15)

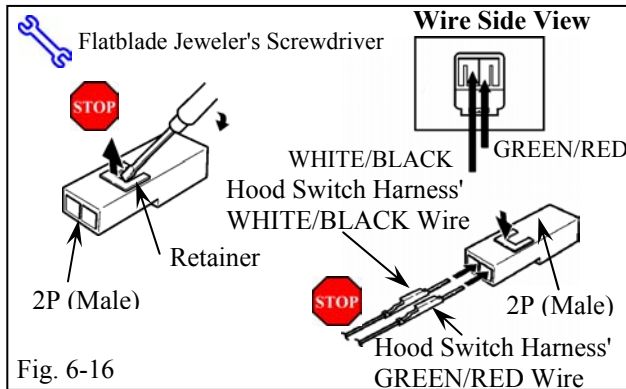


Fig. 6-16

(x) Using a Flatblade Jeweler's Screwdriver, lift the Terminal Retainer on the back of the empty Connector. (Fig. 6-16)

(1) Do not pull out the retainer.

(y) Locate the already installed Hood Switch Harness from the Glove Box Area.

(z) Insert the WHITE/BLACK Wire Terminal at the end of the Hood Switch Harness into the empty 2P Connector's left side opening. (Fig. 6-16)

(1) Turn the Connector so the wires face.

(2) Verify the correct wire is chosen.

(aa) Insert the GREEN/RED Wire Terminal at the end of the Hood Switch Harness into the empty 2P Connector's right side opening. (Fig. 6-16)

(1) Turn the Connector so the wires face.

(2) Verify the correct wire is chosen.

(bb) Close the retainer. (Fig. 6-16)

(1) The terminal should not come out when pulled lightly from the back. If the terminal comes off, then push it in further until securely seated.

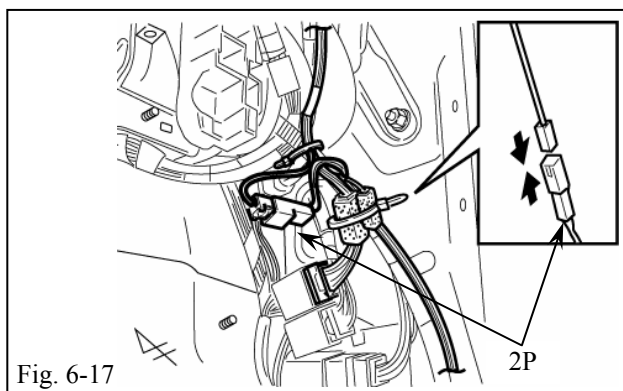
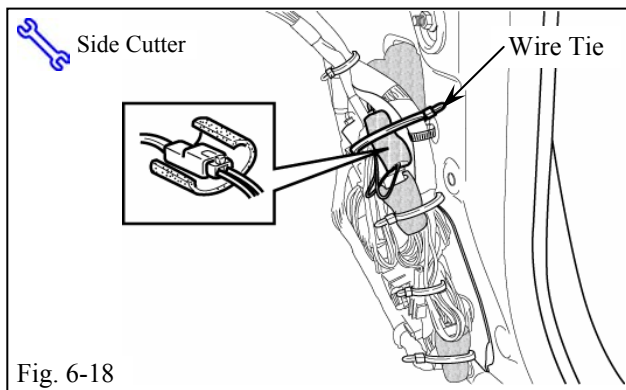


Fig. 6-17

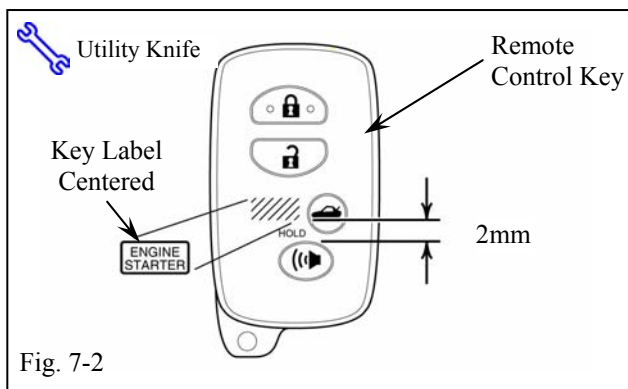
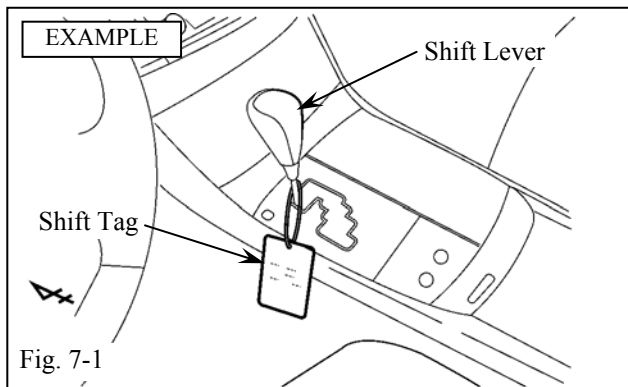
(cc) Connect the RES Harness' Male 2P Connector to the Female 2P Connector. (Fig. 6-17)



(dd) Apply 1 piece of Foam Tape to the 2P Connector and secure it to the V4 Main Harness with 1 Wire Tie. (Fig. 6-18)

This concludes Procedure II - US Built for the Camry Hybrid V4 Installation.

Go to Procedure III.



Procedure III

1. Tags and Labels Installation.

- (a) Hang the Shift Tag on the Shift Lever.
(Fig. 7-1)

- (b) Use the Utility Knife to neatly cut a slit in the Remote Controls Protective Bag and remove the Remotes. (Fig. 7-2)

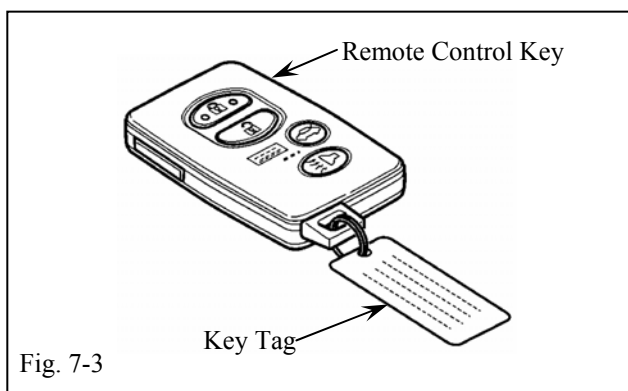
- (c) Using the 3M Prep Sol-70 Cleaner and Cleaning Method, clean the area indicated on the Remote Controls. (Fig. 7-2)

- (d) Remove the Backing Sheet and attach the Key Label to the Remote Controls as shown. (Fig. 7-2)

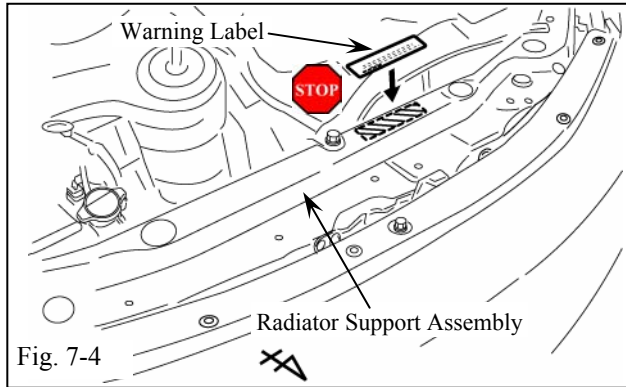
- (1) Use a piece of Clean Adhesive Tape to lift the Label off its Protective Backing Sheet.



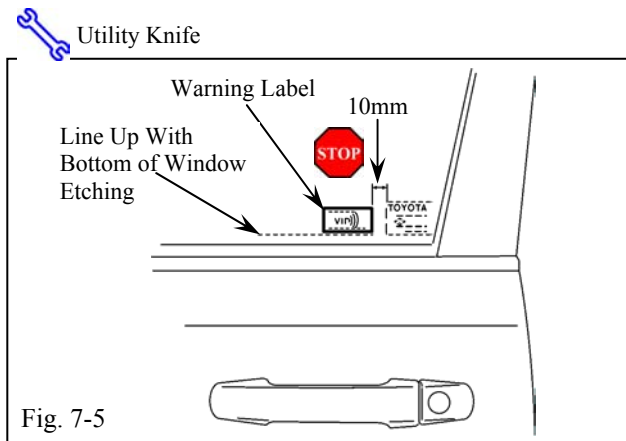
- (2) Do not touch the label's adhesive surface.



- (e) Attach the Key Tag to the Remote Controls Key Ring. (Fig. 7-3)



- (f) Using the 3M Prep Sol-70 Cleaner and Cleaning Method, clean the area indicated on the Radiator Support Assembly as shown. (Fig. 7-4)
- (g) Remove the Backing Sheet and attach the Warning Label to the Radiator Support Assembly. (Fig. 7-4)
 - (1) Do not touch the Label's Adhesive Surface.



- (h) Using Household Windex, clean the inside surface of the Front Door Windows as shown. (Fig. 7-5)
 - (1) When cleaning with Household Windex, follow the Manufacturer's Directions.
- (i) Place the Window Labels on the inside surface of the Front Door Windows as shown. (Fig. 7-5)
 - (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.
 - (3) If the label is being installed with other Window Labels align it horizontally with the other labels and 10mm from the last label.

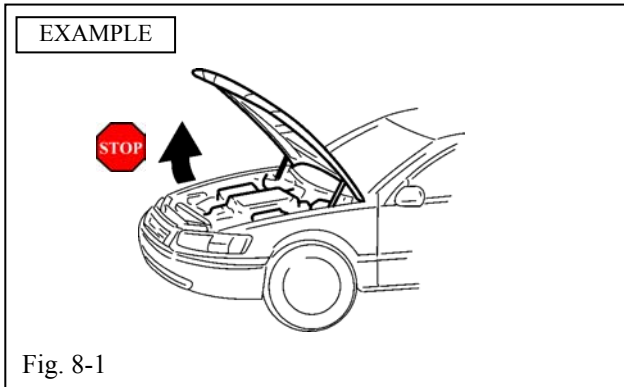


Fig. 8-1

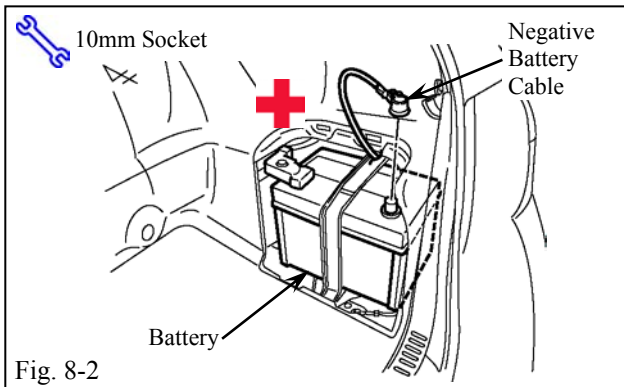


Fig. 8-2

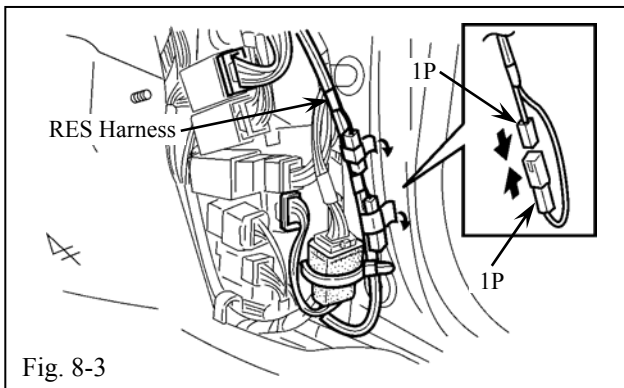


Fig. 8-3

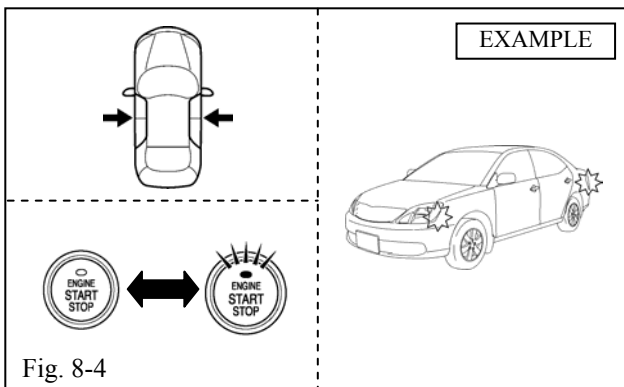


Fig. 8-4

2. Registration Setting Procedure.

(a) Open the Hood. (Fig. 8-1)



(1) Do not close the Hood during the Registration Setting Procedure. (Steps b-ee)

(b) Temporarily reconnect the Vehicle's Negative Battery Cable. (Fig. 8-2)



(1) Avoid touching the Positive Battery Terminal.

(c) Locate the RES Harness' 2 white 1P Connectors in the Passenger Side Cowl Area, and remove the securing tape. (Fig. 8-3)

(d) Connect the 2 RES Harness 1P Connectors. (Fig. 8-3)

(e) Ensure all Doors are closed and the Smart Key is in your possession. (Fig. 8-4)

(f) Cycle the Smart Key Ignition Button from "OFF" to "ON" 5 times. (Fig. 8-4)

NOTE: One cycle consists of:

OFF → Accessory → ON



(1) Place the Shift Lever in the "P" (parking) or "N" (neutral) Position.

NOTE: This is equivalent to pressing the Smart Key Ignition Button 14 times.

(g) Once the fifth cycle has been completed, the Hazard Lights Flash once. (Fig. 8-4)

(h) Press the Smart Key Ignition Button once more to turn the ignition to OFF.

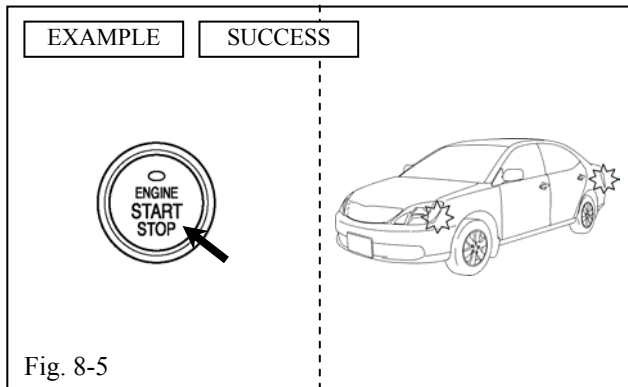


Fig. 8-5

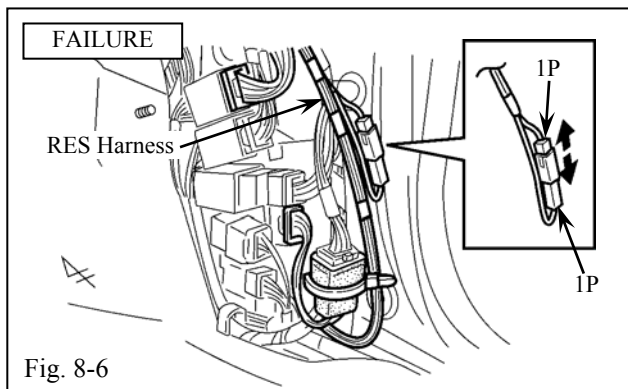


Fig. 8-6

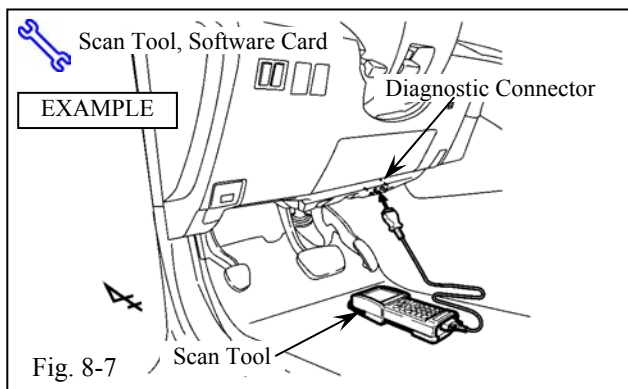


Fig. 8-7

- (i) Start the Engine, after 10 seconds stop the engine.
- (j) The Hazard Lights flash once. Registration is completed. (Fig. 8-5)
Go to step n.

- (k) If you fail this procedure, the Hazard Lights flash twice. Registration was not set.
- (l) Disconnect the RES Harness white 1P Connector from the Passenger Side Cowl Area. (Fig. 8-6)
- (m) Start again from Step b.

NOTE: Check for the latest version of the software on Toyota Information System (TIS) before setting up the Remote Engine Starter system.

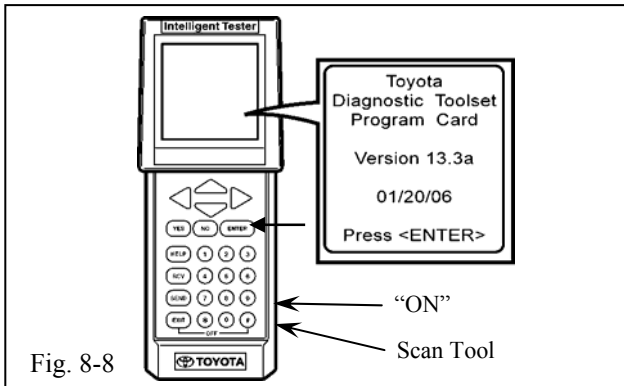
STOP NOTE: Ensure the software is the latest version. (Production Version 13.3a or later.).

STOP NOTE: Download the latest software from Toyota Information System (TIS).

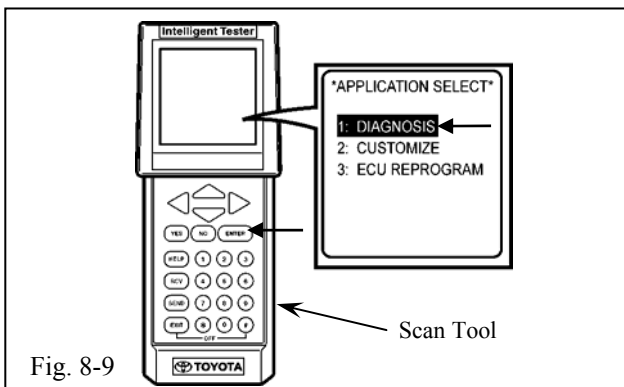
- (n) Connect the Scan Tool Connector to the Vehicle's Diagnostic Connector in the right side of the Lower Dash Area. (Fig. 8-7)
- (o) Press the Power Button twice to select "IG ON" Position on the Remote Control Key.

STOP (1) Place the Shift Lever in the "P" (parking) position.

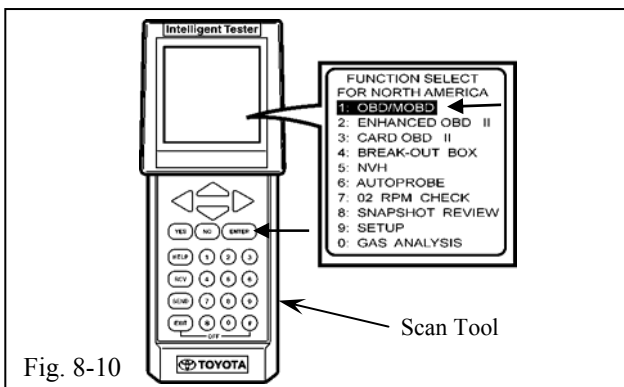
STOP (2) Do not depress the brake pedal.



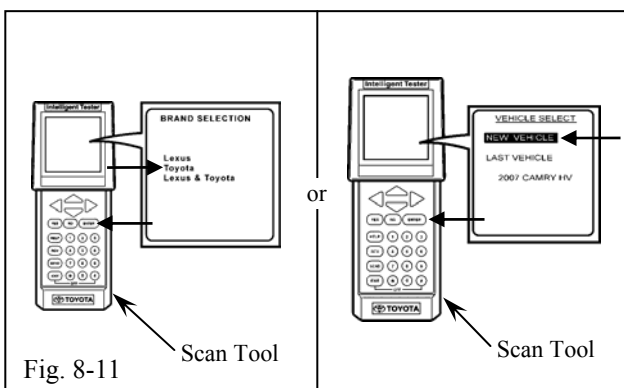
(p) Push the Scan Tool main switch to "ON," then press the "ENTER" button. (Fig. 8-8)



(q) Select "DIAGNOSIS" in the Application Select Menu with the Scroll Key, then press the "ENTER" button. (Fig. 8-9)



(r) Select "OBD/MOBD" in the Function Select Menu with the Scroll Key, then press the "ENTER" button. (Fig. 8-10)



(s) Make the appropriate selection based on the information below, then press the "ENTER" button. (Fig. 8-11)

- (1) In the case of the left-side screen, select "TOYOTA" in the Brand Selection menu.
- (2) In the case of the right-side screen, select "NEW VEHICLE" in the Vehicle Select menu.

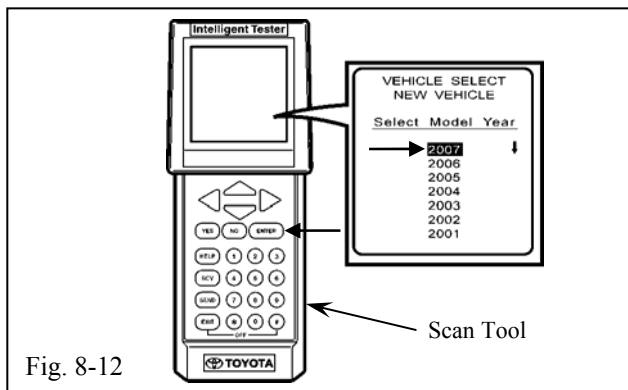


Fig. 8-12

(t) Select "2007" with the Scroll Key, then press the "ENTER" button. (Fig. 8-12)

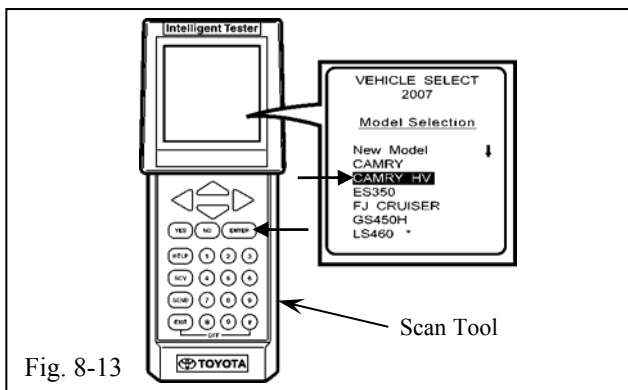


Fig. 8-13

(u) Select "CAMRY HV" with the Scroll Key, then press the "ENTER" button. (Fig. 8-13)

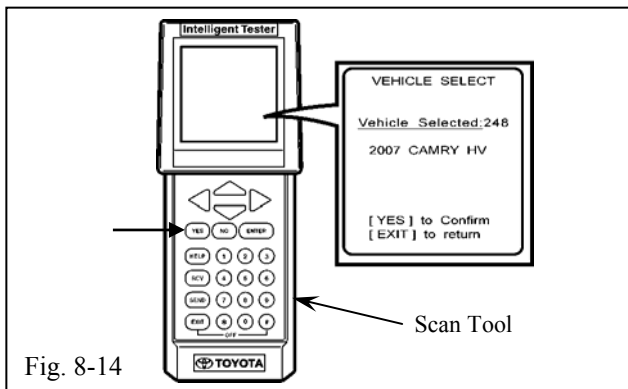


Fig. 8-14

"SELECT VEHICLE" PROCESS

(v) Confirm that the correct Vehicle Applications are displayed. Press the "YES" button to continue. (Fig. 8-14)

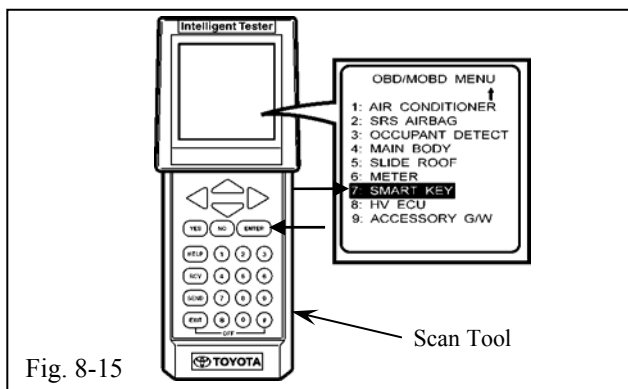


Fig. 8-15

(w) Select "SMART KEY" in the OBD/MOBD menu with the Scroll Key, then press the "ENTER" button. (Fig. 8-15)

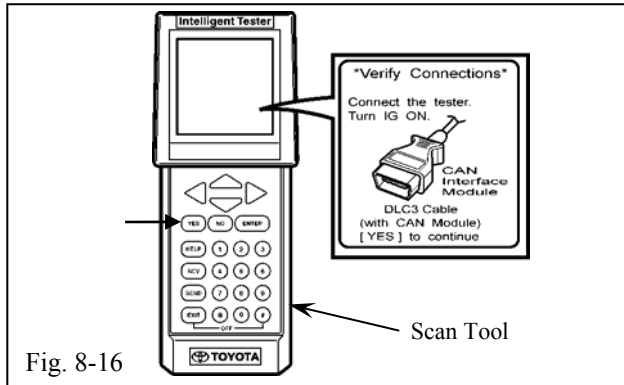


Fig. 8-16

- (x) Verify the connection of the DLC3 Cable.
Press the "YES" button to continue.
(Fig. 8-16)

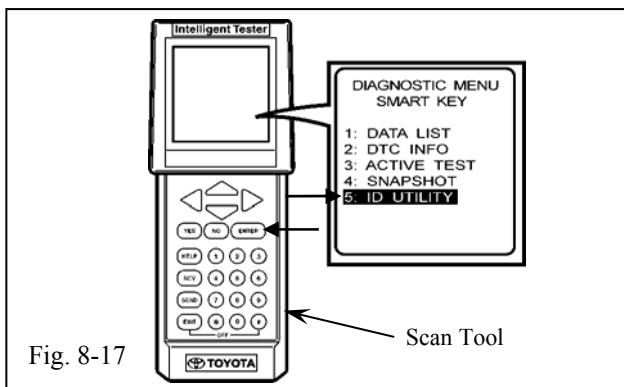


Fig. 8-17

- (y) Select "ID UTILITY" in the Diagnostic Menu with the Scroll Key, then press the "ENTER" button. (Fig. 8-17)

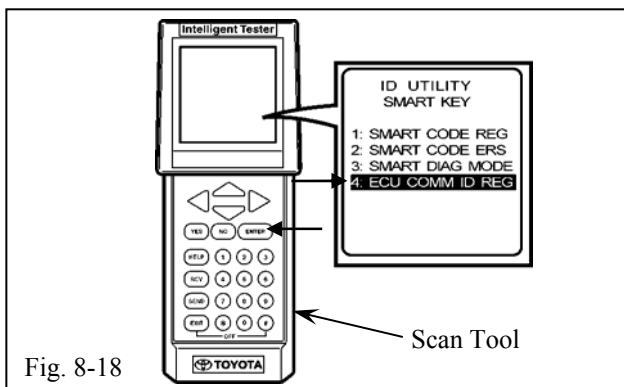


Fig. 8-18

- (z) Select "ECU COMM ID REG" in the ID Utility Menu with the Scroll Key, then press the "ENTER" button. (Fig. 8-18)

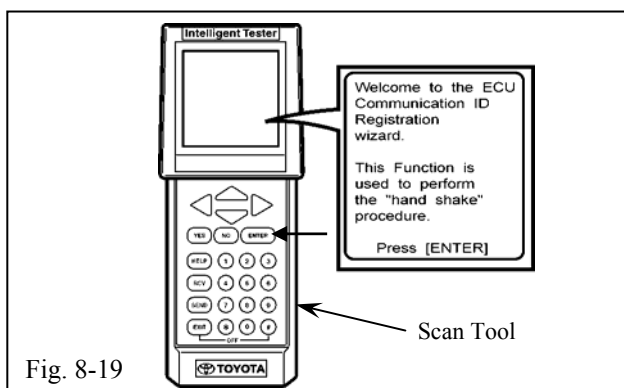


Fig. 8-19

- (aa) At the Information Screen, press the "ENTER" button. (Fig. 8-19)

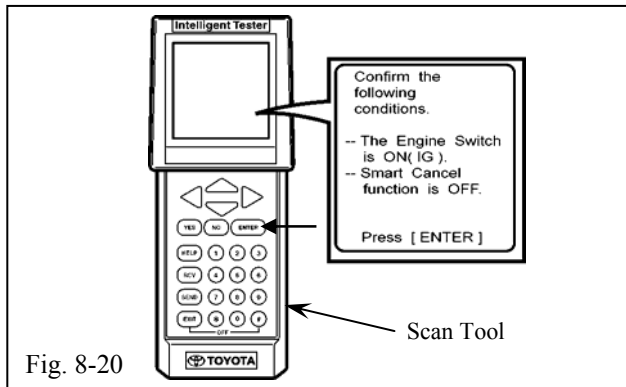


Fig. 8-20

(bb) At the CONDITION Screen, press the "ENTER" button. (Fig. 8-20)

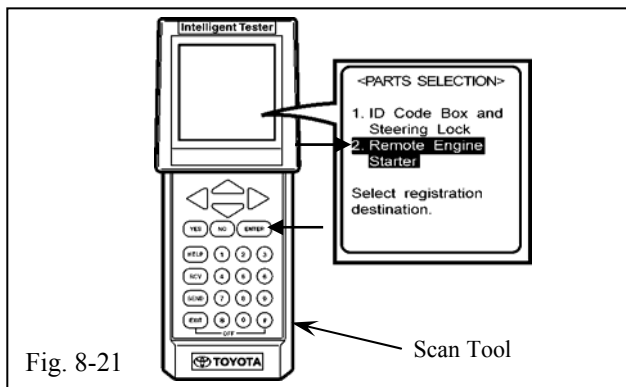


Fig. 8-21

(cc) Select "Remote Engine Starter" in the Parts Selection menu with the scroll key, then press the "ENTER" button. (Fig. 8-21)

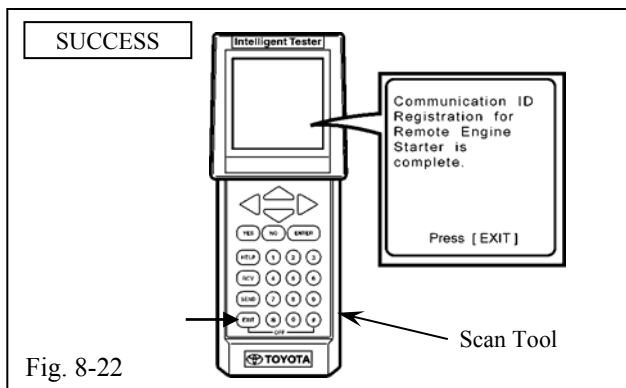


Fig. 8-22

(dd) When the Registration Setting is completed, confirm what appears on the screen as shown, then press the "EXIT" button. (Fig. 8-22)

Go to Step ff.

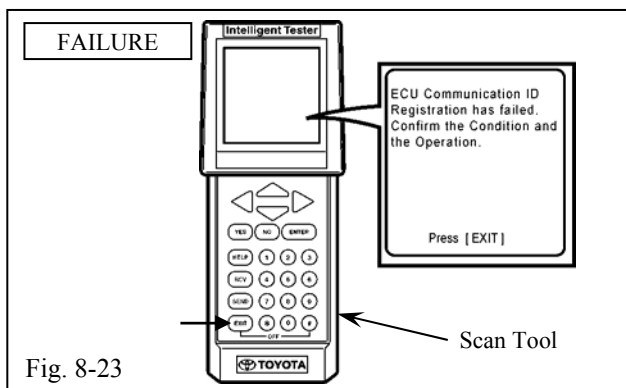
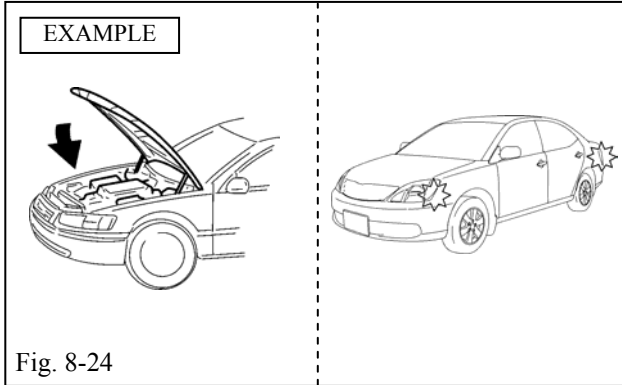


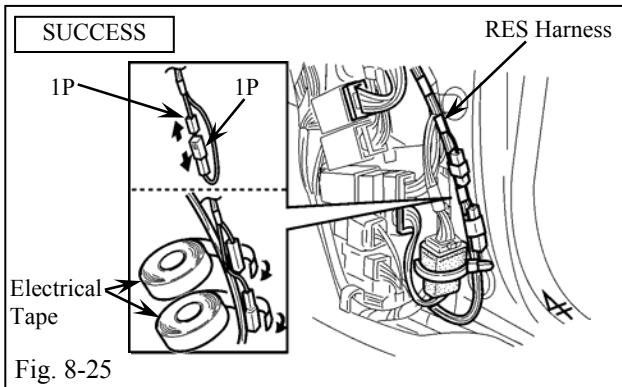
Fig. 8-23

(ee) If the Registration Setting Fails, as displayed on the screen, then press the "EXIT" button. (Fig. 8-23)

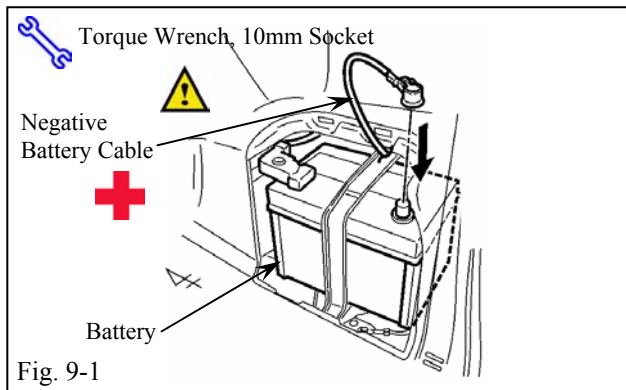
(1) Start again from step n.



- (ff) Close the Hood. (Fig. 8-24)
- (gg) The Hazard Lights flash twice. Registration completed (Fig. 8-24)
 - (1) If you fail this procedure, the hazard lights flash 3 times. Registration will not set. Start again from Step a.



- (hh) Disconnect the RES Harness' white 1P Connectors. Secure the RES Harness and 1P Connectors with Electrical Tape as shown. (Fig. 8-25)
- (ii) Press the Power Button to the "OFF" (Indicator Light off) position.



3. Completing the Installation.

(a) Complete the Vehicle Reassembly.

- (1) Reconnect any disconnected Connectors.
- (2) Verify the Panels fit together properly with no uneven gaps between them.

(b) Clean up and remove any trash.

(c) Re-secure the Vehicle's Negative battery cable. (Fig. 9-1)



- (1) Position the negative battery cable at the original factory position.



- (2) Tighten the Nut to 36 in•lbf (4.6 N•m).



- (3) Avoid touching the Positive Battery Terminal.

(d) Refit the Battery Cover to the Passenger Side of the Luggage Compartment.

(e) Reset the Power Moon Roof (if equipped).

- (1) Push and hold the Moon Roof Switch to close the Moon Roof. Hold for an additional 2 seconds.

(f) Place the Owner's Manual, and Warranty Card, left in their Protective Bags, in the Glove Box.

Check:

Look For:

Accessory Function Checks

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.

Press the remote control’s unlock button.

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.

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 and the smart key in your possession, pull the outside door handle.

Enter the vehicle and close all doors.

1. The hazard lights flash after 3 seconds. The engine starts. The hazard lights flash repeatedly for 20 seconds.
2. The engine stops. The hazard lights flash twice.
3. Refer to Step 1. The engine stops. The hazard lights flash once.
4. Refer to Step 1. The engine stops. The hazard lights flash once.

Check:

- 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, push on the foot brake.
- 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 and the smart key in your possession, press the power button on the dash.
- 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.
- 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.

Look For:

- 5. Refer to Step 1.
The engine stops.
The hazard lights flash once.
The security alarm triggers.
- 6. Refer to Step 1.
The engine stops.
The hazard lights flash once.
- 7. Refer to Step 1.
The engine stops.
The hazard lights flash once.
- 8. The engine does not start.
- 9. Refer to Step 1.
The engine stops.
The hazard lights flash once.

Check:	Look For:
<p><u>Vehicle Function Checks</u></p> <ul style="list-style-type: none"> <input type="checkbox"/> Head Lights <input type="checkbox"/> High Beams <input type="checkbox"/> Turn Signal Lights <input type="checkbox"/> Tail Lights <input type="checkbox"/> Stop Lights <input type="checkbox"/> Backup Lights <input type="checkbox"/> Hazard Lights <input type="checkbox"/> Marker Lights <input type="checkbox"/> Dome/Courtesy Lights <input type="checkbox"/> Panel/Switch Illumination <input type="checkbox"/> Accessory Controls/Illumination (if equipped) <input type="checkbox"/> Key Sensor Buzzer <input type="checkbox"/> Fog Lights (if equipped) <input type="checkbox"/> Daytime Running Lights (if equipped) <input type="checkbox"/> Trunk/Tailgate/Bed Lights (if equipped) <input type="checkbox"/> Glove Box Light (if equipped) <input type="checkbox"/> Cruise Control Light (if equipped) <input type="checkbox"/> Seat Belt Warning Light <input type="checkbox"/> Air Bag Warning Light 	<ul style="list-style-type: none"> 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 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.

Check:

Look For:

- 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 Moon Roof (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
- Audio/Video (if equipped)
- Power Sliding Door (if equipped)
- Convenience Memory Settings (if equipped)

- 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 Moon Roof
- Functioning Power Seats
- Functioning Horn
- Functioning Gauges
- Functioning Front Wiper/Washer
- Functioning Rear Wiper/Washer
- Functioning Clock
- Functioning Power Socket
- Functioning Starter
- Functioning Audio/Video
- Functioning Power Sliding Door
- Functioning Memory Settings

Check:

Look For:

- 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)
- Steering Wheel Audio Control (if equipped)
- Steering Column Check (if equipped)

- 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
- Functioning Steering Wheel Audio Control
- Functioning Steering Column Check

Remove the appropriate fuse after checks are completed.