

Part Number: PT398-02081

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

Conflicts

Do not install into vehicles without RKE, or with Factory Security.

Recommended Sequence of Application

Item #	Accessory	
1	TVIP V5	RS3200 PLUS
2	TVIP V4	Remote Engine Starter (RES)

Kit Contents

Item #	Quantity	Description
1	1	Wire Harness

Hardware Bag Contents

Item #	Quantity	Description
1	1	V5 ECU
2	1	V5 ECU Mounting Bracket
3	1	GBS ECU
4	1	GBS ECU Mounting Bracket
5	1	Status Monitor
6	1	Spring Nut
7	1	Bolt
8	15	Wire Ties
9	2	Foam Tape Strips
10	1	Key Tag ENGLISH
11	1	Key Tag SPANISH
12	2	Window Label ENGLISH
13	2	Window Label SPANISH
14	1	Warranty Card
15	1	Owner's Guide






Additional Items Required For Installation

Item #	Quantity	Description
1	1	Black Electrical Tape

Recommended Tools

Personal & Vehicle Protection	Notes
Safety Glasses	
Safety Gloves	(Optional)
Vehicle Protection	Blankets, Parts Boxes
Special Tools	Notes
Striker Tool (PPO only)	CAD-E IADS P/N ALL 02-016-01
Installation Tools	Notes
Phillips Screwdriver	#2 Phillips
Flat Blade Screwdriver	Jewelers
Nylon Panel Removal Tool	e.g. Panel Pry Tool #1 Toyota SST # 00002-06001-01
Side Cutters	
Torque Wrench	36 in•lbf (4.07 N•m)
Utility Knife	
Tape	Clear
Socket	10mm, Extension
Pliers	
Special Chemicals	Notes
Cleaner	3M™ Prep Sol-70
Glass Cleaner	Household Glass Cleaner

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.

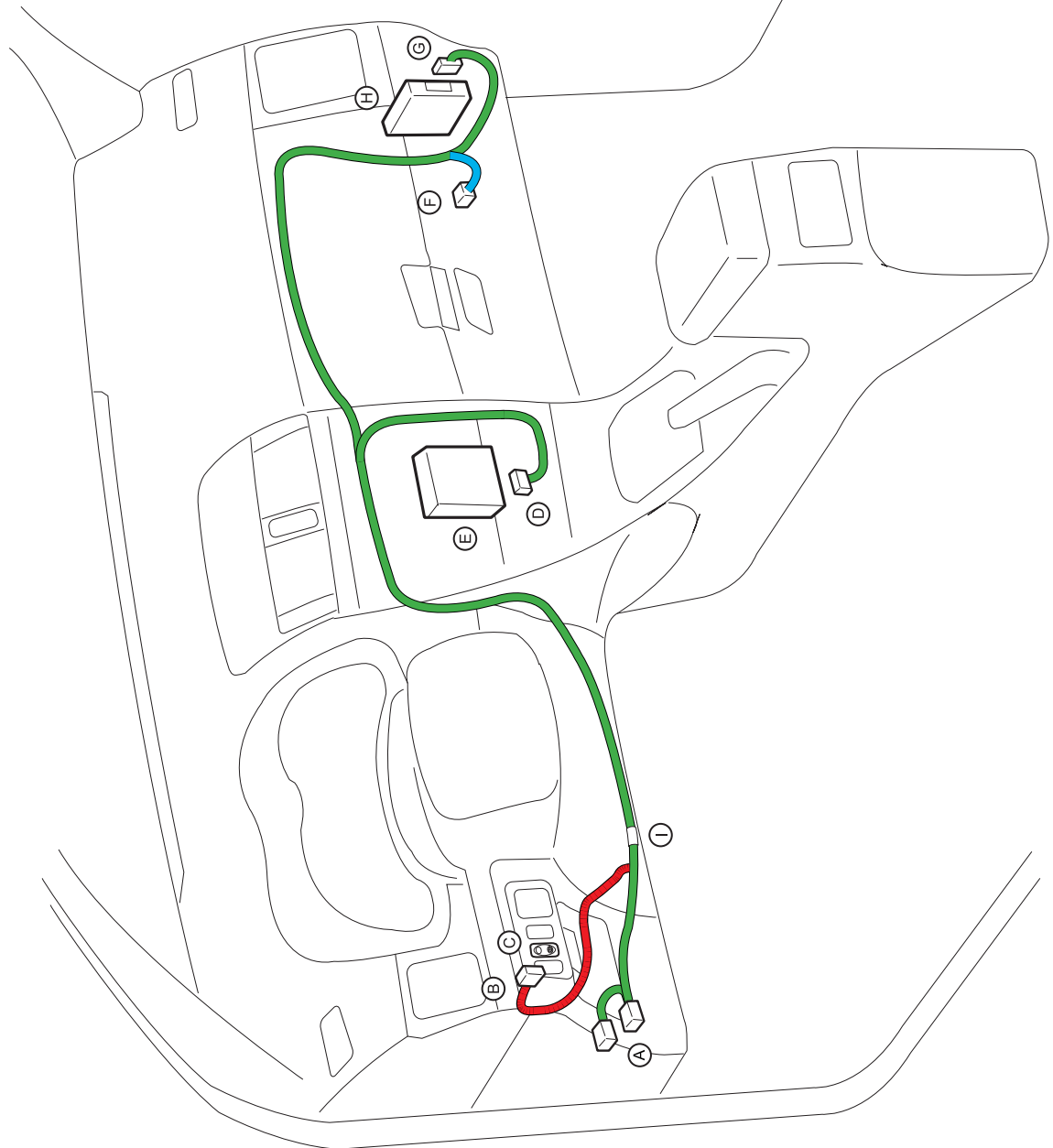
This document covers such items as:

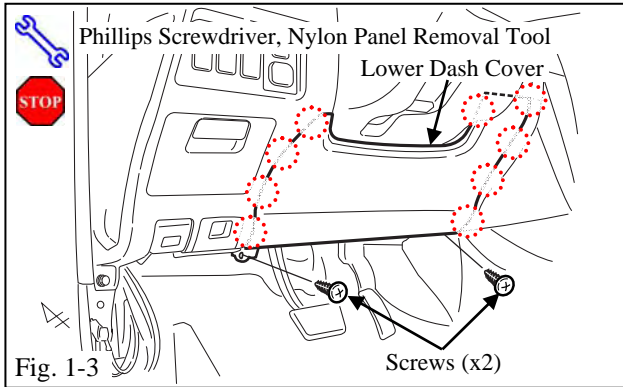
- Vehicle Protection (use of covers and blankets, cleaning chemicals, etc.)
- Safety (eye protection, rechecking torque procedure, etc.)
- Vehicle Disassembly/Reassembly (panel removal, part storage, etc.)
- Electrical Component Disassembly/Reassembly (battery disconnection, connector removal, etc.)

Please see your Toyota dealer for a copy of this document

14P WHITE (Male)	4P Black (for Status Monitor)	Status Monitor	36P White (for V5 ECU)	V5 ECU	2P WHITE (Male)	8P WHITE (for GBS ECU)	GBS ECU	White Tape Marker					
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)					

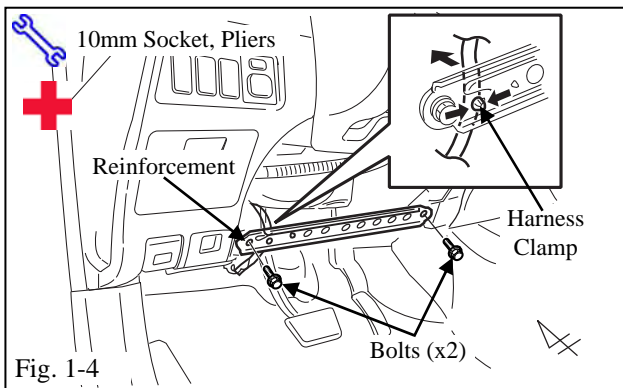
Wire Harness Outline





(c) Remove the Driver's Lower Dash Cover. (Fig. 1-3)

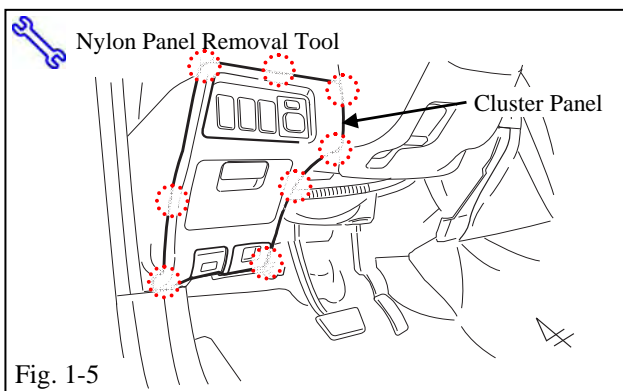
- (1) Protect the Vehicle Interior with Blankets.
- (2) Remove 2 Screws.



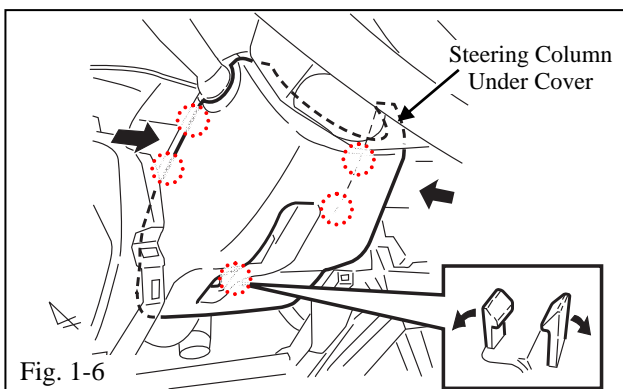
(d) Remove the Metal Substructure. (Fig. 1-4)

- (1) Remove 2 Bolts.
- (2) Remove the Vehicle Harness Clamp from the backside of the Metal Substructure.

+ CAUTION: Sharp metal edges.



(e) Remove the Driver's Cluster Panel. (Fig. 1-5)



(f) Loosen the Steering Column Under Cover as shown. (Fig. 1-6)

- (1) Insert fingers into the opening of the Tilt Lever of the Steering Column Under Cover to disengage 1 Claw.
- (2) Push the right and left side of the Steering Column Under Cover, and disengage the 4 Claws.

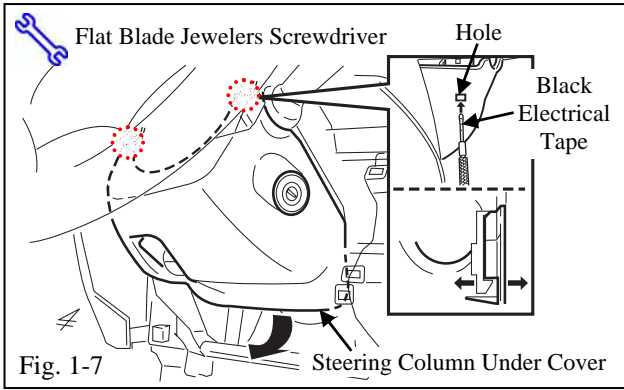


Fig. 1-7

- (g) Remove the Steering Column Under Cover as shown. (Fig. 1-7)
- (1) Insert the key into the Ignition and turn it to ON.
 - (2) Turn the Steering Wheel from Left to Right to gain access to the Clip Access holes.
 - (3) Wrap the tip of the Flat Blade Jewelers Screwdriver in the Black Electrical Tape.
 - (4) Insert it in the rectangular hole of the Steering Column Under Cover front, and release the inside 2 Claws.

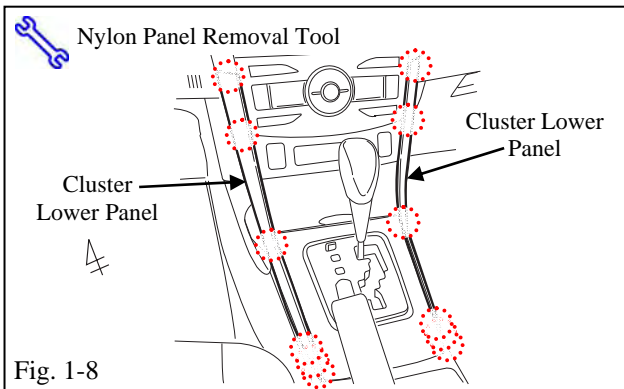


Fig. 1-8

- (h) Remove the left and right side Cluster Lower Trim. (Fig. 1-8)

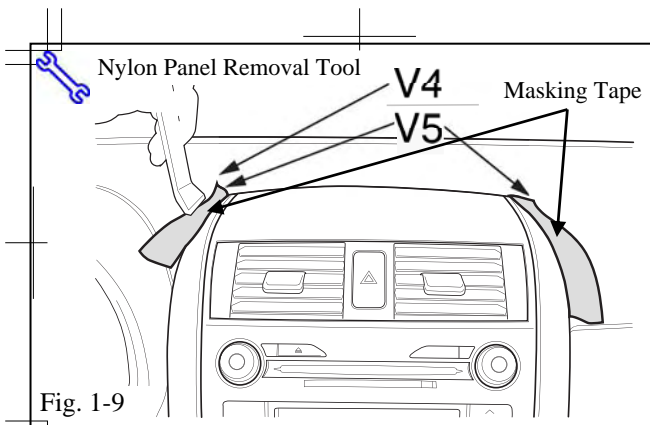


Fig. 1-9

- (i) Apply Masking tape to the dash as shown to protect it during the removal of the Center Cluster's Upper Trim. (Fig. 1-9)
- (1) Don't apply the tape to the Trim pieces.

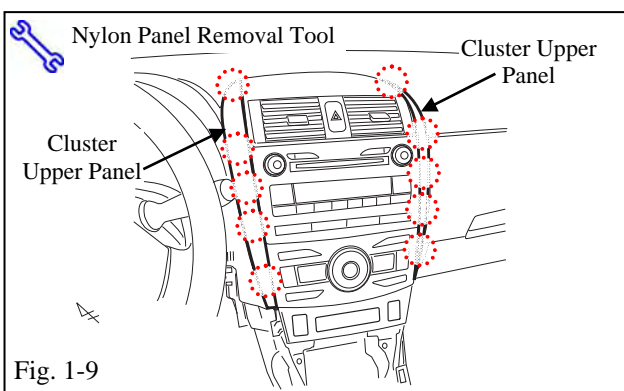
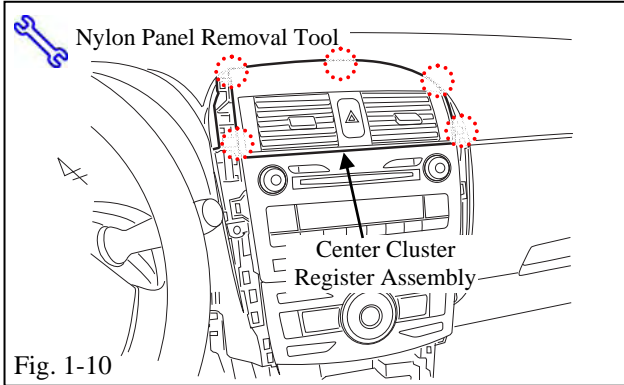
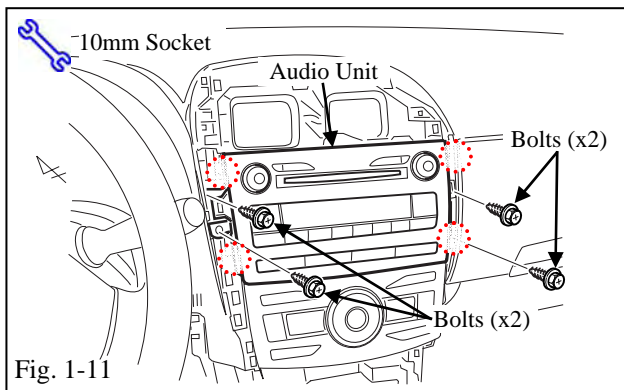


Fig. 1-9

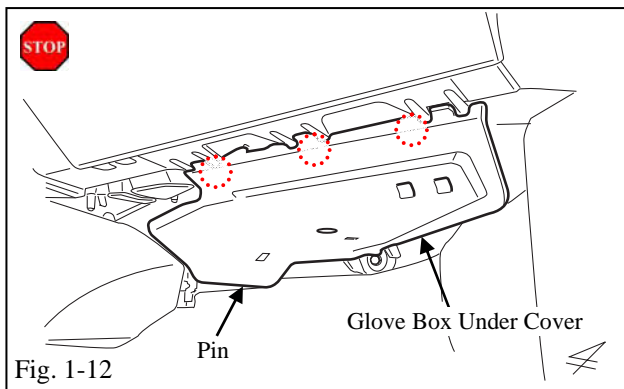
- (j) Remove the left and right side Cluster Upper Trim. (Fig. 1-9)



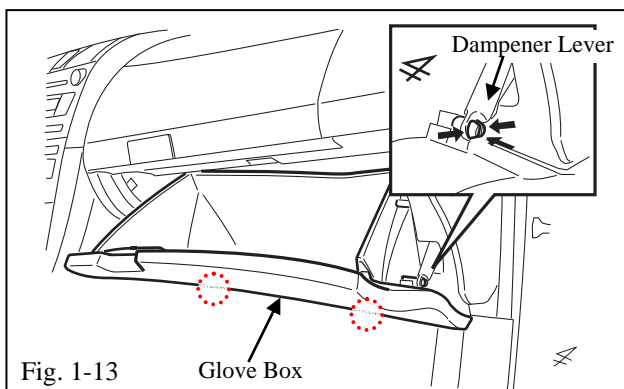
- (k) Remove the Center Cluster Register Assembly. (Fig. 1-10)



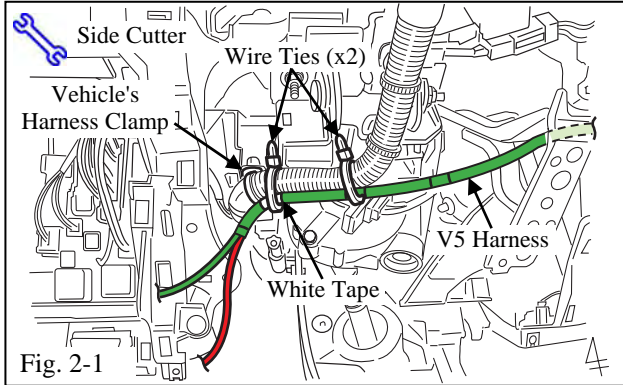
- (l) Remove the Audio Unit. (Fig. 1-11)
 - (1) Remove 4 Bolts.



- (m) Remove the Passenger's Glove Box Under Cover. (Fig. 1-12)
 - (1) Protect the Vehicle Interior with Blankets.

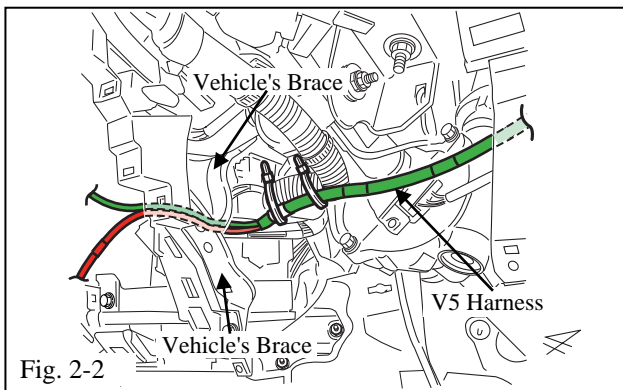


- (n) Remove the Glove Box. (Fig. 1-13)
 - (1) Open the Glove Box.
 - (2) Release the Dampener Lever from the Glove Box.

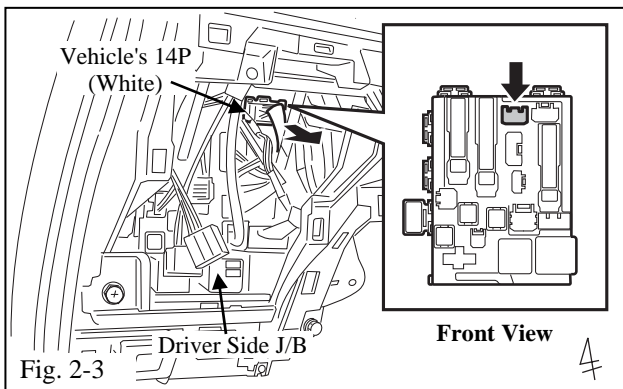


2. V5 Wire Harness Installation.

- (a) Secure the V5 Harness's White Tape Marker to the right side of the Vehicle's Harness Clamp with 1 Wire Tie as shown. (Fig. 2-1)
- (b) Secure the V5 Harness to the Vehicle Harness with 1 Wire Tie. (Fig. 2-1)

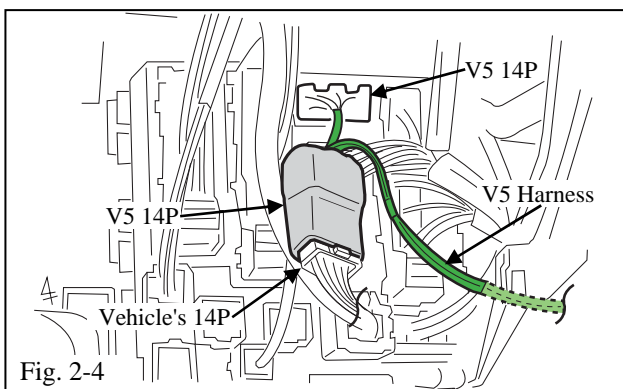


- (c) Route the V5 Harness's White 14P Connectors and Black 4P Connector behind the Vehicle's Brace toward the Driver Side J/B. (Fig. 2-2)



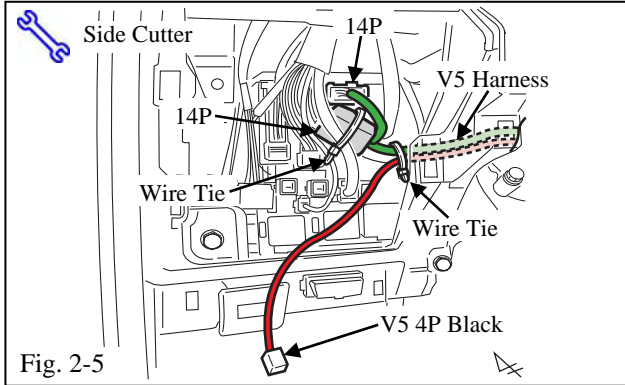
- (d) Locate and disconnect the Vehicle's White 14P Connector from the Driver Side J/B. (Fig. 2-3)

● **V5 Only**
- If vehicle is equipped with V4 Harness already, skip to step h.

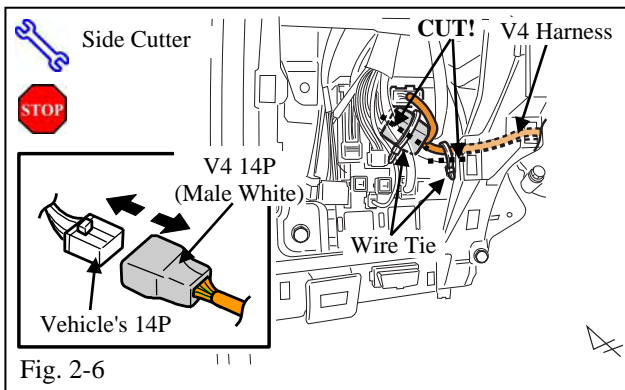


- (e) Plug in the V5 Harness's White 14P Connectors between the Vehicle Harness's White 14P Connector and the Driver Side J/B Connectors. (Fig. 2-4)

(1) Verify secure connection.

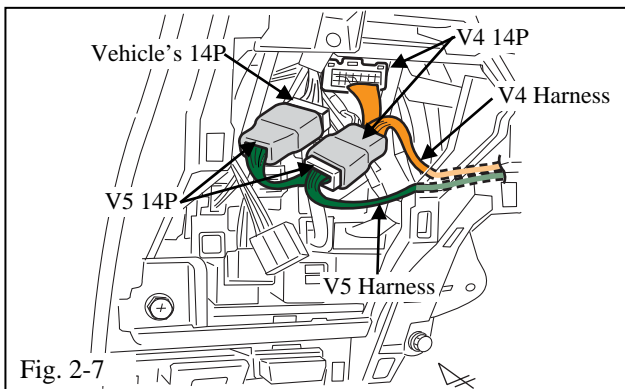


- (f) Secure the 14P Connectors to the Vehicle Harness with 1 Wire Tie. (Fig. 2-5)
- (g) Secure the V5 Harness to the Vehicle Harness with 1 Wire Tie. (Fig. 2-5)

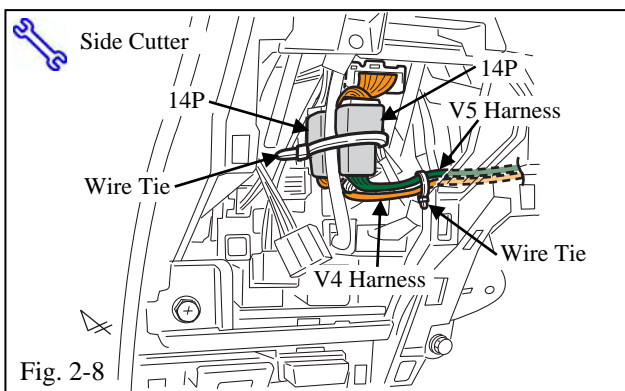


• V5 onto V4
-Add On installation, steps h – l.

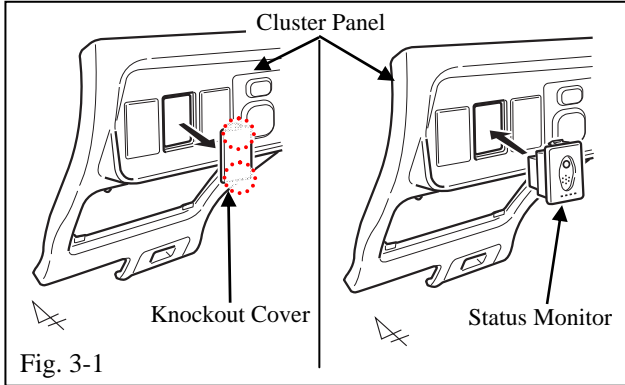
- (h) Cut the 2 Wire Ties securing the 14P Connectors and the V4 Harness. (Fig. 2-6)
 - (1) Do not cut any wires.
- (i) Disconnect the Vehicle 14P Connector from the V5 Connector. (Fig.2-6)



- (j) Connect the V5 14P Connector to the V4 14P Connector. (Fig. 2-7)
- (k) Connect the Vehicle 14P Connector to the V5 14P Connector. (Fig. 2-7)

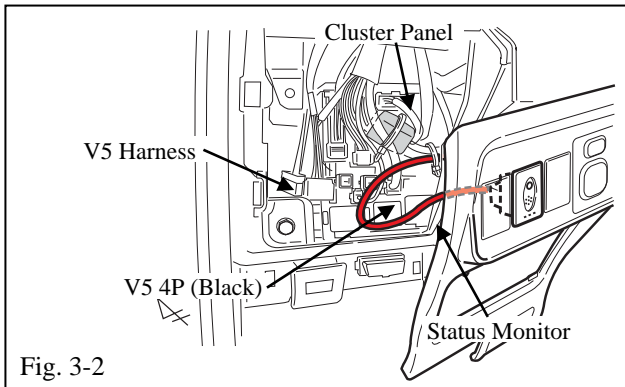


- (l) Secure two 14P Connectors to the Vehicle Harness with 1 Wire Tie. (Fig. 2-8)
- (m) Secure both the V4 and V5 Harnesses to the Vehicle Harness with 1 Wire Tie. (Fig. 2-8)



3. Status Monitor Installation.

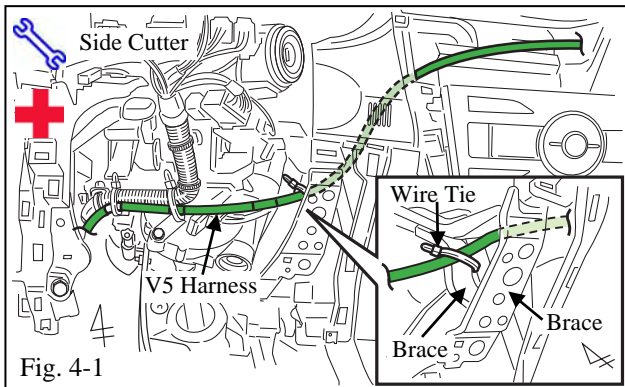
- (a) Remove the Knockout Cover from the Driver's Cluster Panel as shown. (Fig. 3-1)
- (b) Insert the Status Monitor (with Microphone) in place as shown. (Fig. 3-1)



- (c) Connect the V5 Harness's Black 4P Connector to the Status Monitor (with Microphone). (Fig. 3-2)

(1) Verify secure connection.

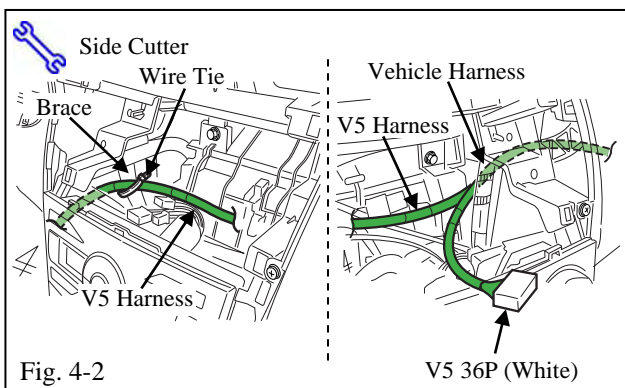
GO BACK TO THE V5 HARNESS' WHITE TAPE AREA.



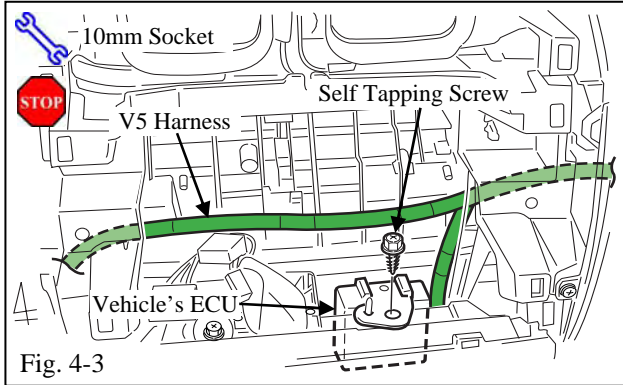
4. V5 Wire Harness Installation (continued).

- (a) Route the V5 Harness through the opening between the Vehicle's Brace, then secure it to the Vehicle Brace with 1 Wire Tie. (Fig. 4-1)

+ CAUTION: Sharp metal edges.

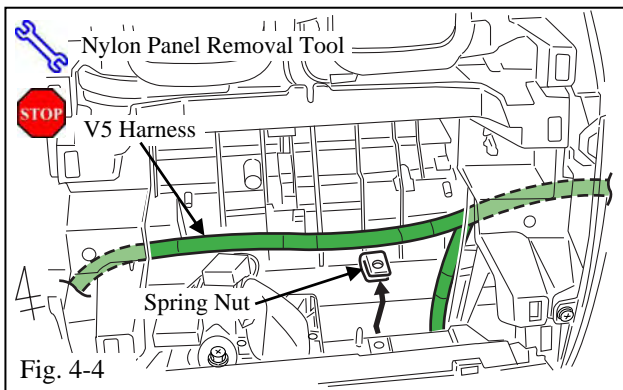


- (b) Secure the V5 Harness to the Driver's side Vehicle Brace with 1 Wire Tie. (Fig.4-2)
- (c) Route the V5 Harness behind the Passenger's side Vehicle Harness toward the Passenger side as shown. (Fig. 4-2)



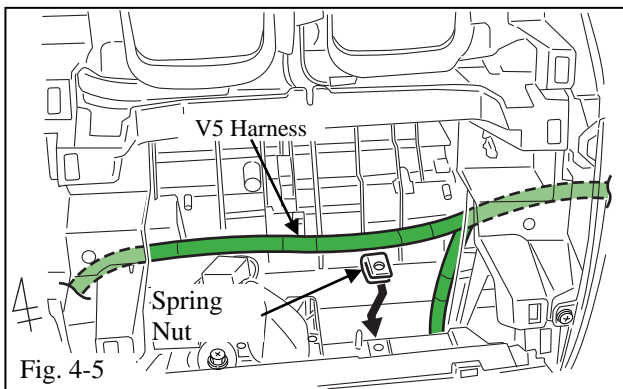
(d) Dislodge the Vehicle's ECU from the Center Cluster Area. (Fig. 4-3)

- (1) Remove 1 Self Tapping Screw.
- (2) Do not discard the Screw.

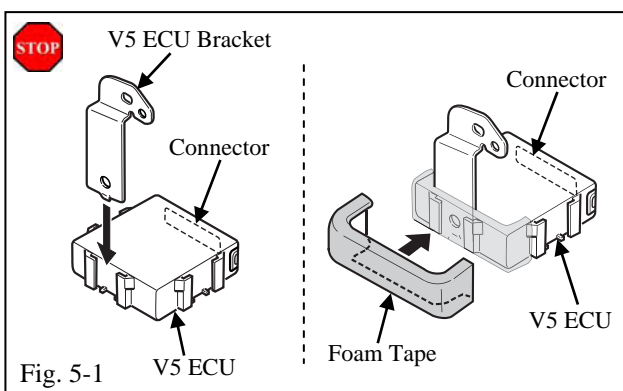


(e) Remove the Vehicle's Spring Nut. (Fig. 4-4)

- (1) Discard the Spring Nut.



(f) Using the Spring Nut from the Kit, install it to the Center Cluster as shown. (Fig. 4-5)

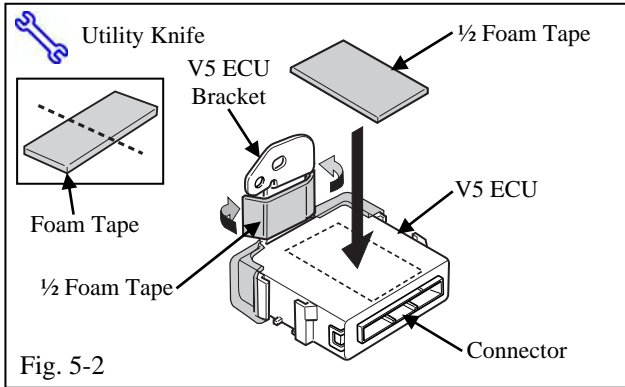


5. V5 ECU Preparation and Installation.

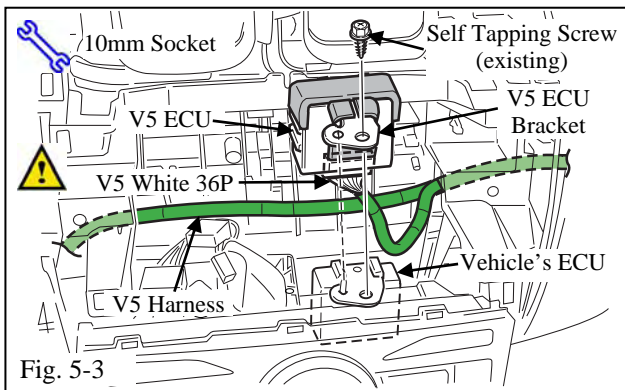
(a) Install the V5 ECU Bracket into the indicated bracket slot on the V5 ECU. (Fig. 5-1)

- (1) Ensure the bracket is firmly attached to the ECU.

(b) Apply 1 Foam Tape to the V5 ECU as shown. (fig. 5-1)



(c) Cut and apply two 1/2 pieces of Foam Tape to the V5 ECU as shown. (fig. 5-2)



(d) Position the Vehicle ECU in its original position. (Fig. 5-3)

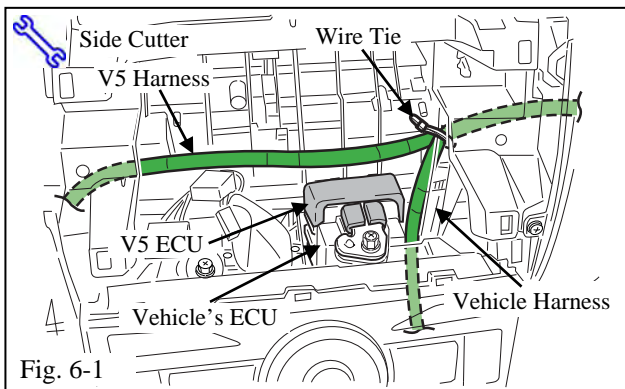
(e) Connect the V5 Harness' White 36P Connector to the V5 ECU. (Fig. 5-3)

(1) Verify secure connection.

(f) Install the V5 ECU and Bracket over the Vehicle ECU Bracket using the existing Self Tapping Screw as shown. (Fig. 5-3)

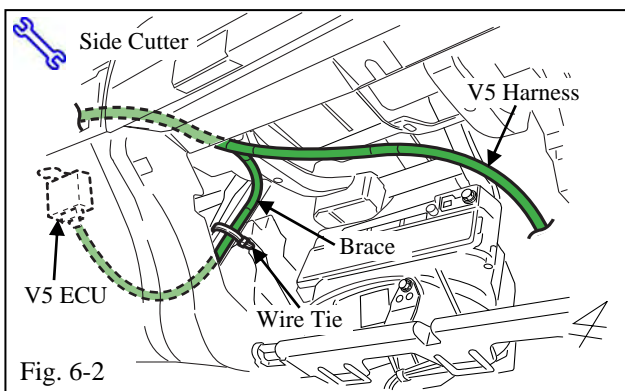


CAUTION: Do not over-tighten the Screw.

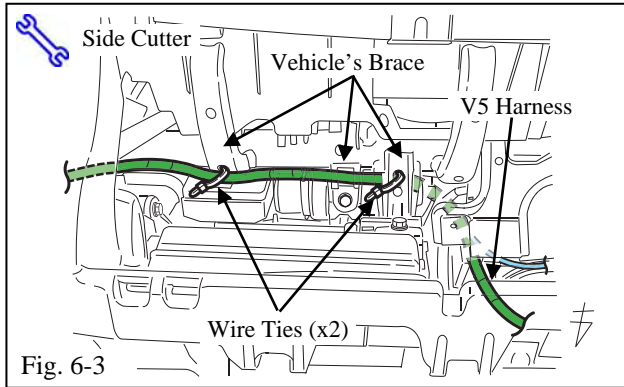


6. V5 Wire Harness Installation (continued).

(a) Secure the V5 Harness to the Vehicle Harness with 1 Wire Tie. (Fig. 6-1)

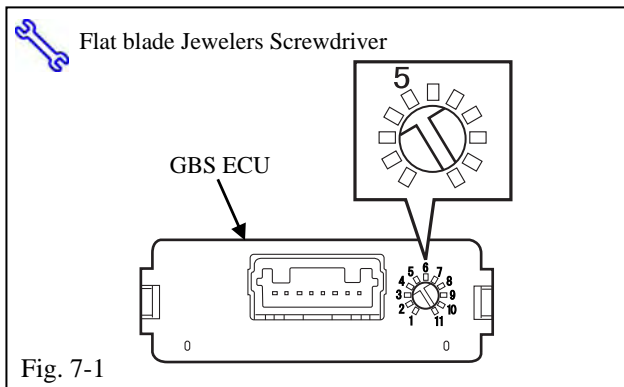


(b) Route the V5 Harness toward the Passenger Area, then secure the V5 Harness (V5 ECU) to the Passenger Side Vehicle Brace with 1 Wire Tie as shown. (Fig. 6-2)

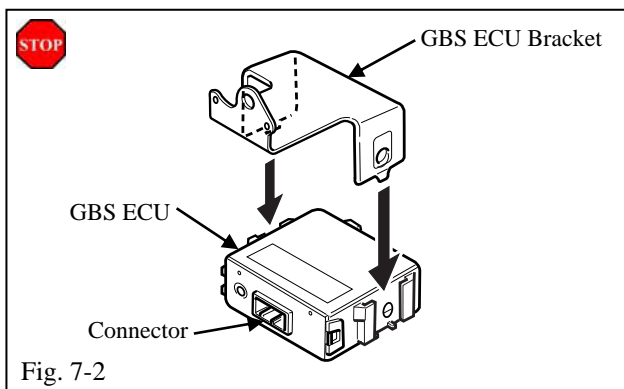


- (c) Route the V5 Harness along the Reinforcement in the Glove Box Area, then secure it to the Vehicle's Brace with 2 Wire Ties. (Fig. 6-3)

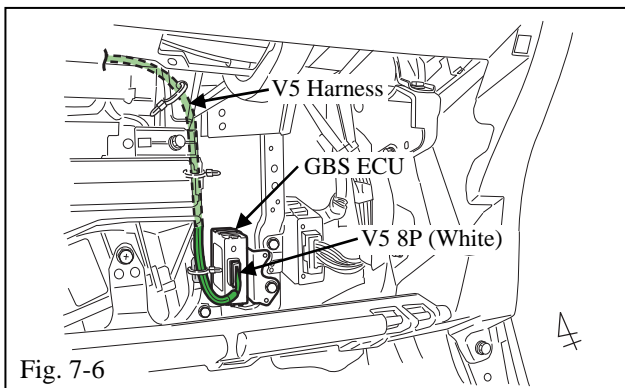
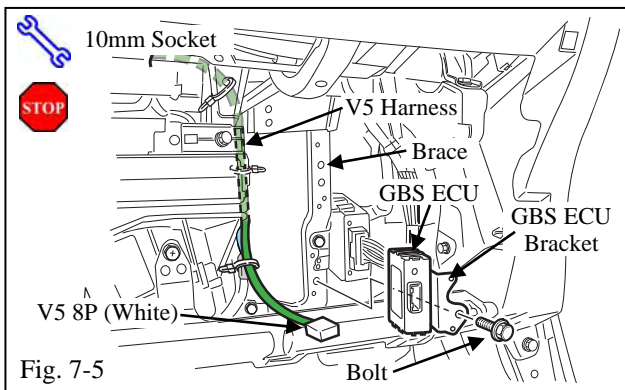
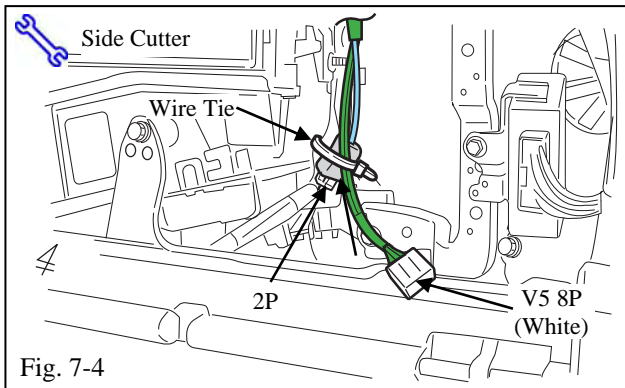
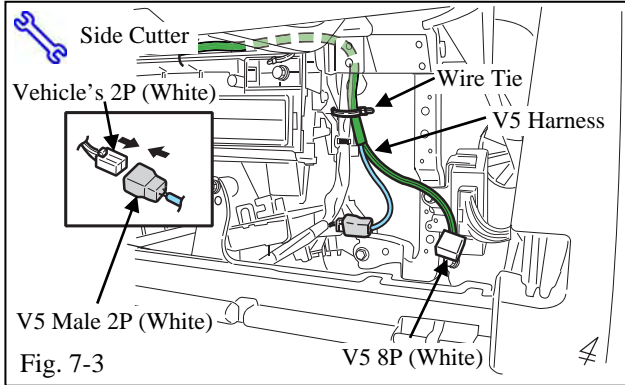
7. GBS ECU Preparation and Installation.



- (a) Turn the sensitivity screw on the GBS ECU to the "5" position. (Fig. 7-1)

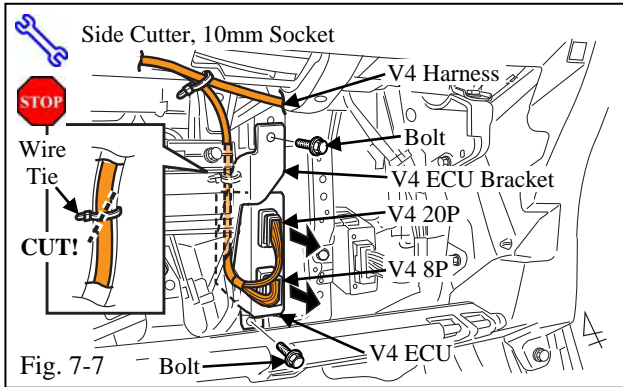


- (b) Insert the GBS ECU Bracket into the indicated bracket slot on the GBS ECU. (Fig. 7-2)
- (c) Ensure the bracket is firmly attached to the ECU.



- **V5 Only**
-If vehicle is equipped with V4 Harness already, skip to step j.

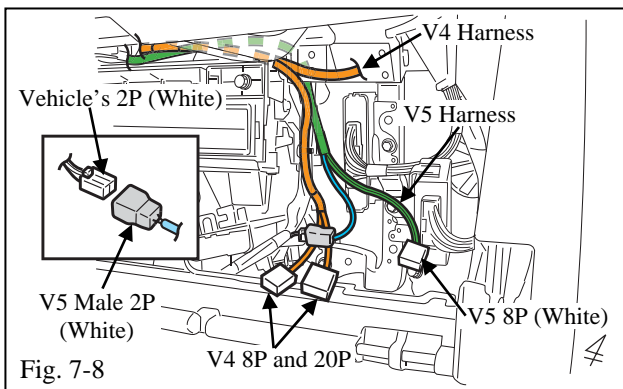
- (d) Locate the Vehicle's pre-wire White 2P Female Connector in the right side of the Blower Motor. (Fig. 7-3)
- (e) Connect the Vehicle's pre-wire White 2P Female Connector to the V5 Harness's White 2P Male Connector. (Fig. 7-3)
 - (1) Verify secure connection.
- (f) Secure the V5 Harness to the Vehicle Harness with 1 Wire Tie. (Fig. 7-4)
- (g) Secure the 2P Connectors to the Vehicle Harness with 1 Wire Tie. (Fig. 7-4)
- (h) Using the Bolt from the Kit, install the GBS ECU to the Vehicle's Brace as shown. (Fig. 7-5)
 - (1) Do not over-tighten the Bolt.
 - (2) Ensure a Hole of the Brace to install the GBS ECU.
- (i) Connect the V5 Harness's White 8P Connector to the GBS ECU. (Fig. 7-6)
 - (1) Verify secure connection.



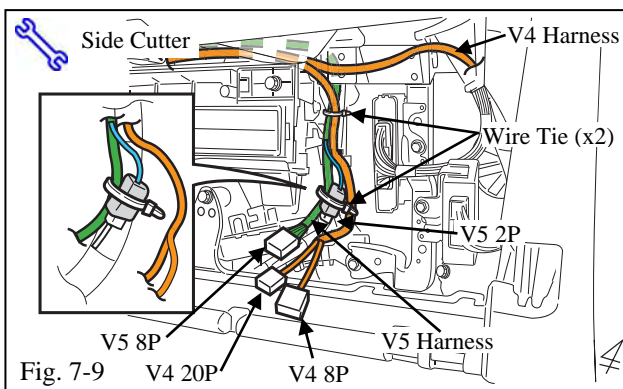
● **V5 onto V4**

-Add On installation, steps j – t.

- (j) Disconnect the V4 ECU's White 8P and 20P Connectors from the V4 ECU. (Fig. 7-7)
- (k) Remove the V4 ECU Bracket (included V4 ECU). (Fig. 7-7)
 - (1) Remove 2 Bolts.
 - (2) Do not discard the Bolts.
- (l) Cut the 1 Wire Tie securing the V4 Harness as shown. (Fig. 7-7)
 - (1) Do not cut any wires.

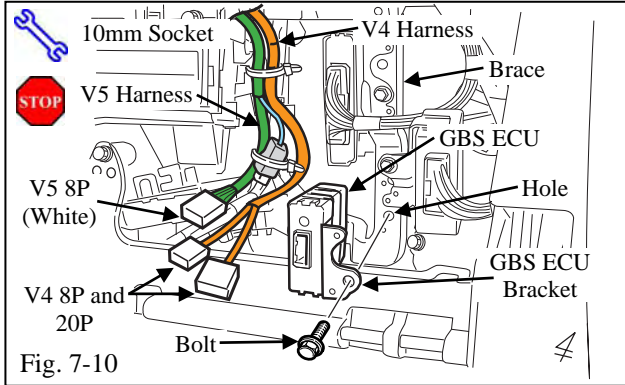


- (m) Locate the Vehicle's pre-wire White 2P Female Connector on the right side of the Blower Motor. (Fig. 7-8)
- (n) Connect the Vehicle's pre-wire White 2P Female Connector to the V5 Harness's White 2P Male Connector. (Fig. 7-8)
 - (1) Verify secure connection.



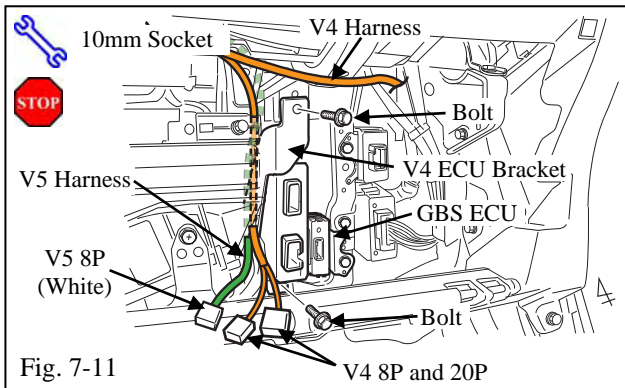
- (o) Secure the V5 Harness and the V4 Harness to the Vehicle Harness with 1 Wire Tie. (Fig. 7-9)
- (p) Secure the V5 2P Connector and the V5 Harness to the Vehicle Harness with 1 Wire Tie. (Fig. 7-9)

CONTINUED



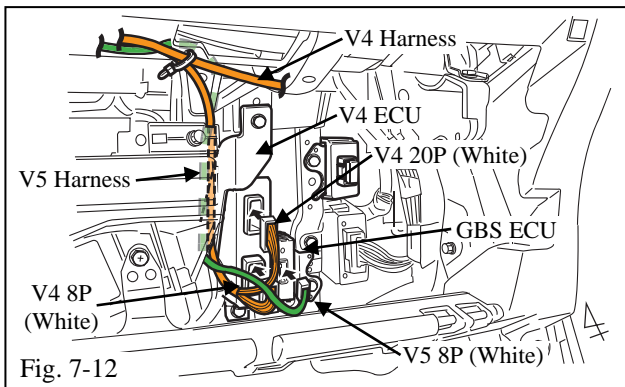
- (q) Using 1 Bolt from the Kit, install the GBS ECU to the Vehicle's Brace as shown. (Fig. 7-10)

- (1) Do not over-tighten the Bolt.
- (2) Make sure the Guide Pins seat properly.



- (r) Using removed 2 Bolts, reinstall the V4 ECU Bracket (included V4 ECU) to the Vehicle's Brace as shown. (Fig. 7-11)

- (1) Do not over-tighten the Bolt.

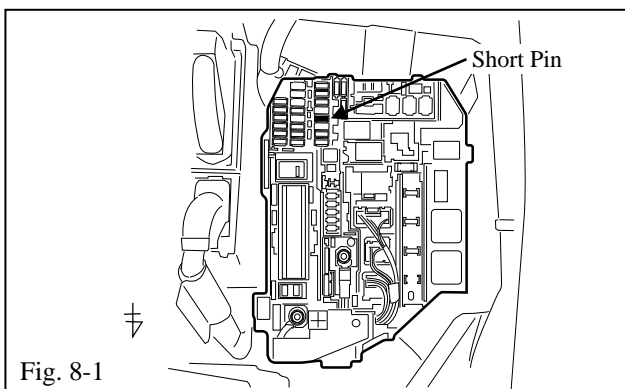


- (s) Connect the V4 Harness's White 8P Connector and the White 20P Connector to the V4 ECU. (Fig. 7-12)

- (1) Verify secure connection.

- (t) Connect the V5 Harness's White 8P Connector to the GBS ECU. (Fig. 7-12)

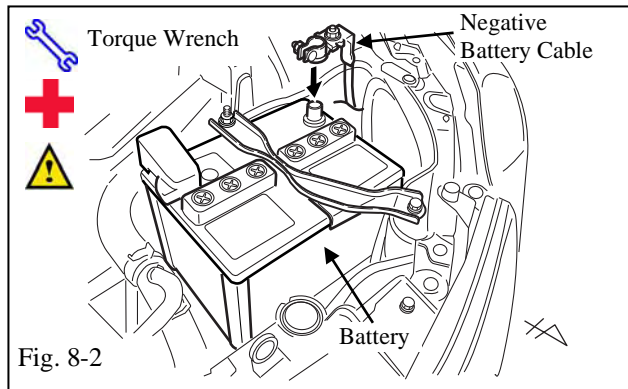
- (1) Verify secure connection.



8. Complete the Installation.

- (a) Verify that the Short Pin is installed. (Fig. 8-1)

- (1) If not install the Short Pin.



(b) Complete the reassembly of the vehicle.

(1) Verify the panels fit together properly, with no uneven gaps.

(c) Position the Negative Battery Cable at the original factory position. (Fig. 8-2)

(1) Tighten the Nut to 36 in•lbf (4.07 N•m).



CAUTION: Do not touch the positive terminal.

(d) Clean up and remove any trash.

(e) Reset the Power Windows.

(1) Turn Ignition Key to the “ON” position.

(2) Push down the Power Window Switches, and lower the windows halfway.

(3) Pull up the switches until the windows close.

(4) Continue holding up on the switches for a minimum of 1 second.

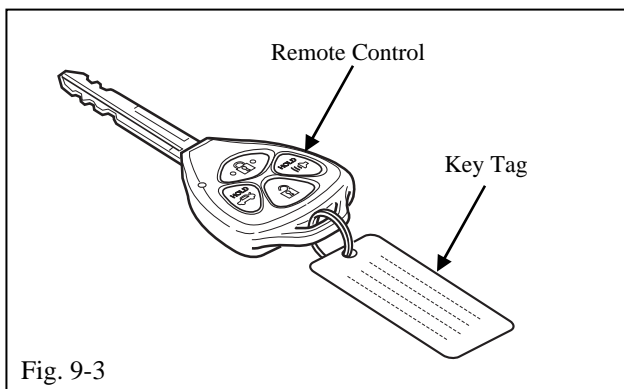
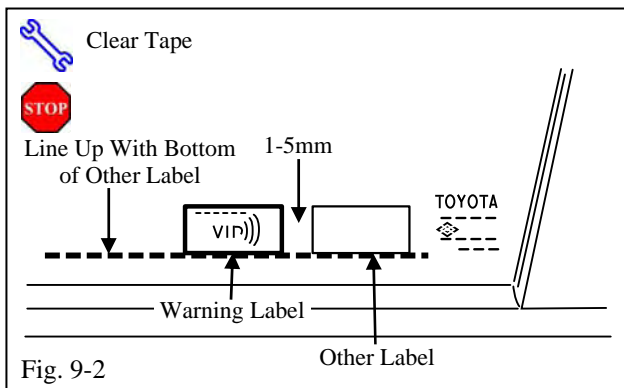
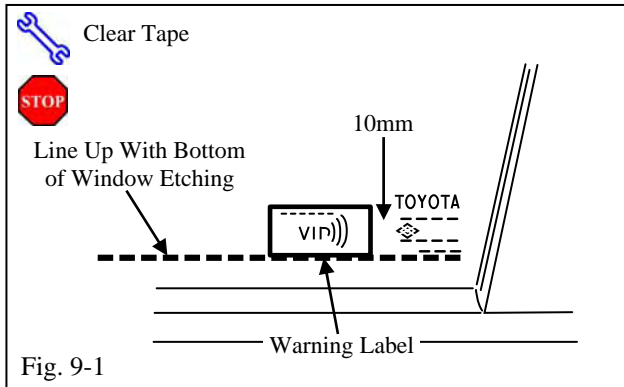
(f) Reset the Moon Roof (if equipped).

(1) Turn Ignition Key to the “ON” position.

(2) Open the Moon Roof halfway.

(3) Push and hold the Moon Roof Switch to close until the Moon Roof closes.

(4) Continue to hold the switch for a minimum of 1 second.



9. Tags and Label Installation.

- For US Vehicles use the English Labels and Tag, and discard the Spanish Tags and Labels.
- For Mexico Vehicles use the Spanish Labels and Tag, and discard the English Tags and Labels.

- (a) Using Household Windex, clean the inside of the Front Door Windows. (Fig. 9-1)
- (b) Place the Window Labels on the inside of the Front Door Windows as shown. (Fig. 9-1)

- (1) Use a piece of clean adhesive tape to lift the Labels off their protective backing.



CAUTION: Do not touch the adhesive surface.

- (2) Line up the Labels properly and place on the Glass. Do not attempt to reposition the Labels once they are placed.



NOTE: If Labels are being installed with other Window Labels align them as shown in Fig. 9-2.

- (c) Attach the Key Tag to the Vehicle Key. (Fig. 9-3)

- (d) Place the V5 Owner's Guide and Warranty Card, sealed in the bag, in the Glove Box.

Checklist - these points **MUST** be checked to ensure a quality installation.

Accessory Function Checks

	Procedure	Look for:
1	Press and release the remote control lock button to start the system's arming process.	The turn signal lights flash once All doors lock. The Security LED lights up.
2	Wait 30 seconds.	Security LED starts flashing; the system is now armed.
3	Press and release the remote control's unlock button to disarm the system.	The turn signal lights flash twice. The driver's door unlocks. The Security LED flashing.

Open the driver's door, insert the key into the ignition switch and turn it to "ON". Roll down all the windows, remove the key and exit the vehicle.

4	Arm and disarm the system with the remote again, then wait 60 seconds.	The doors automatically relock. The system automatically starts the arming process.
5	Press and release the remote control's unlock button again to stop the arming process.	Refer to step 3.
6	Insert the key into the driver's door key cylinder and turn it toward the front of the vehicle to start the arming process.	All doors lock. The Security LED lights up.
7	Wait 30 seconds.	Security LED starts flashing; the system is now armed.
8	Reach inside and manually unlock the driver's door to trigger an alarm.	The driver's door automatically relocks. The horn sounds repeatedly. The headlights flash repeatedly. The turn signal lights flash repeatedly. The Security LED lights up.
9	Manually unlock the driver's door again and hold it unlocked, open the door, then sit in the driver's seat.	The driver's door lock attempts to lock repeatedly. The horn continues to sound repeatedly. The headlights and turn signal lights continue flashing. The Security LED remains on.
10	Insert the key into the ignition switch and turn it to "START" to stop the alarm.	The horn stops sounding. All the lights stop flashing and/or turn off. The Security LED turns off. The starter cranks and the engine starts.

Checklist - these points **MUST** be checked to ensure a quality installation.

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

11	With the door open, press the lock switch on the door to lock the doors, then close the door to start the system's arming process.	All doors lock. The Security LED lights up.
12	Wait 30 seconds.	Security LED starts flashing; the system is now armed.
13	Reach inside and manually unlock the front passenger's door to trigger an alarm.	The front passenger's door automatically relocks. The horn sounds repeatedly. The headlights flash repeatedly. The turn signal lights flash repeatedly. The Security LED lights up.
14	Press and release the remote control's unlock button to stop the alarm.	The horn stops sounding. All the lights stop flashing. The Security LED turns off.
15	Press and release the remote control's lock button to start the system's arming process, then wait 30 seconds until the system is armed.	Refer to steps 1 and 2.
16	Unlock and open one of the rear passenger doors to trigger an alarm. (if available).	Refer to step 13.
17	Press and release the remote control's unlock button to stop the alarm.	Refer to Step 14
18	Repeat the above steps with the other rear passenger door. (if available).	Refer to steps 1, 2, and 13.

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

20	Press and release the remote control's lock button to start the arming process.	Refer to step 1.
21	Wait 30 seconds.	After 30 seconds, the Security LED starts flashing; the system is now armed.

Checklist - these points **MUST** be checked to ensure a quality installation.

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

22	With the tip of a key, or Striker Tool pulled all the way out (PPO only), tap the center of the driver's door window to trigger the alarm.	The horn sounds repeatedly. The headlights flash repeatedly. The turn signal lights flash repeatedly. The Security LED lights up.
23	Insert the key into the driver's door key cylinder and turn it toward the back of the vehicle to stop the alarm.	The horn stops sounding. All the lights stop flashing and/or turn off. The Security LED turns off. The starter cranks and the engine starts.

NOTE: If the alarm does not trigger during functional verifications, increase the GBS sensitivity to the next setting.

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

Checklist - these points **MUST** be checked to ensure a quality installation.

Vehicle Function Check

	Function		Function
<input type="checkbox"/>	Head Light	<input type="checkbox"/>	ABS Light (if equipped) <i>If the warning light remains on, it may indicate a system malfunction.</i>
<input type="checkbox"/>	High Beams	<input type="checkbox"/>	Rear Wiper/Washer (if equipped)
<input type="checkbox"/>	Turn Signal Lights	<input type="checkbox"/>	Clock (if equipped)
<input type="checkbox"/>	Tail Lights	<input type="checkbox"/>	Accessory Power Socket (if equipped)
<input type="checkbox"/>	Stop Lights	<input type="checkbox"/>	Starter
<input type="checkbox"/>	Backup Lights	<input type="checkbox"/>	Audio/Video (if equipped)
<input type="checkbox"/>	Hazard Lights	<input type="checkbox"/>	Power Sliding Door (if equipped)
<input type="checkbox"/>	Marker Lights	<input type="checkbox"/>	Convenience Memory Settings (if equipped)
<input type="checkbox"/>	Dome/Courtesy Lights	<input type="checkbox"/>	Heated Seats (if equipped)
<input type="checkbox"/>	Panel/Switch Illumination	<input type="checkbox"/>	Massage Seats (if equipped)
<input type="checkbox"/>	Accessory Controls/Illumination (if equipped)	<input type="checkbox"/>	Rear Window Defogger (if equipped)
<input type="checkbox"/>	Key Sensor Buzzer	<input type="checkbox"/>	Power Side Mirrors (if equipped)
<input type="checkbox"/>	Fog Lights (if equipped)	<input type="checkbox"/>	Side Mirror Defogger (if equipped)
<input type="checkbox"/>	Daytime Running Lights (if equipped)	<input type="checkbox"/>	Front Windshield Defogger (if equipped)
<input type="checkbox"/>	Trunk/Tailgate/Bed Lights (if equipped)	<input type="checkbox"/>	Navigation System (if equipped)
<input type="checkbox"/>	Glove Box Light (if equipped)	<input type="checkbox"/>	Rear Sunshade (if equipped)
<input type="checkbox"/>	Cruise Control Light (if equipped)	<input type="checkbox"/>	Steering Wheel Audio Control (if equipped)
<input type="checkbox"/>	Seat Belt Warning Light <i>If the warning light remains on, it may indicate a system malfunction.</i>	<input type="checkbox"/>	Steering Wheel Column Adjusts Without Interference
<input type="checkbox"/>	Air Bag Warning Light <i>If the warning light remains on, it may indicate a system malfunction.</i>	<input type="checkbox"/>	Lamp Failure Sensor <i>If the warning light remains on, it may indicate a system malfunction.</i>

Checklist - these points **MUST** be checked to ensure a quality installation.

Function		Function	
<input type="checkbox"/>	Track/Skid Control Light (if equipped) <i>If the warning light remains on, it may indicate a system malfunction.</i>	<input type="checkbox"/>	Front Wiper/Washer
<input type="checkbox"/>	HVAC	<input type="checkbox"/>	Hood Latch Release
<input type="checkbox"/>	Power Locks (if equipped)	<input type="checkbox"/>	Passenger Air Bag Switch (if equipped)
<input type="checkbox"/>	Power Windows (if equipped)	<input type="checkbox"/>	Rollover Side Curtain Air Bag Switch (RSCA) (if equipped)
<input type="checkbox"/>	Power Seats (if equipped)	<input type="checkbox"/>	Tire Pressure Monitoring System (TPMS). <i>Prior to TPMS activation and Pre-delivery Service (PDS) of the Vehicle the TPMS light will blink when IG is turned on.</i> <i>After TPMS activation and PDS of the Vehicle the TPMS light will illuminate for a few seconds and go off when IG is turned on.</i>
<input type="checkbox"/>	Horn		
<input type="checkbox"/>	Gauges		

Remove the short pin after Function Check.

Check with your port/dealer to find out if this step is needed.

