

**Part Number: 08586-3T871**

**Kit Contents**

Item #	Quantity Reqd.	Description
1	1	Wire Harness
2	1	ECU Mounting Bracket
3	1	Microphone
4	1	GBS ECU

**Hardware Bag Contents**

Item #	Quantity Reqd.	Description
1	15 (14 Used)	Medium Wire Ties
2	1	Large Foam Tape Strip (2pcs.)
3	1	Small Foam Tape Strip
4	1	Bolt
5	1	Splicing Connector
6	1	Owner's Manual

**Additional Items Required For Installation**

Item #	Quantity Reqd.	Description

**Conflicts**

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**Recommended Tools**

<b>Personal &amp; Vehicle Protection</b>	<b>Notes</b>
Safety Glasses	
Safety Gloves	(Optional)
Vehicle Protection	Blankets, Part Boxes
<b>Special Tools</b>	<b>Notes</b>
Striker Tool	ALL 02-016-01
<b>Installation Tools</b>	<b>Notes</b>
Phillips Head Screwdriver	#2, screwdriver or tip
Flat Blade Screwdriver	Small
10mm Socket	
Pneumatic/Electric Wrench	
10mm Wrench	
Torque Wrench	3 ft-lbs
Nylon Panel Removal Tool	
Side Cutters	
Pliers	
<b>Special Chemicals</b>	<b>Notes</b>
3M Prep Solvent -70	

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

**General Applicability**

2005- Camry with factory TDS system, only.
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**Recommended Sequence of Application**

Item #	Accessory
1	V2
2	EC Mirror
3	Subwoofer

\*Mandatory

**Vehicle Service Parts** (may be required for reassembly)

Item #	Quantity Reqd.	Description

**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.

**Procedure**

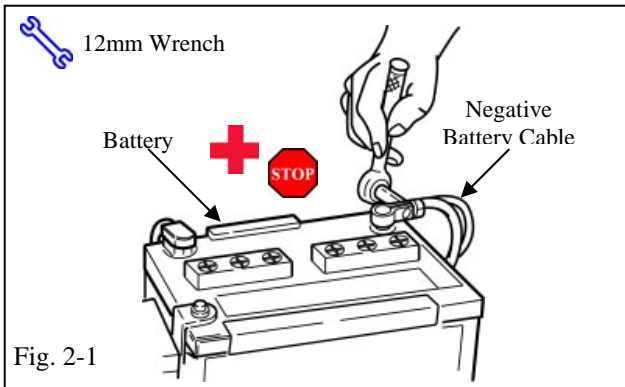
Care must be taken when installing this accessory to ensure damage does not occur to the vehicle. The installation of this accessory should follow approved guidelines to ensure a quality installation.

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

This document covers such items as:-

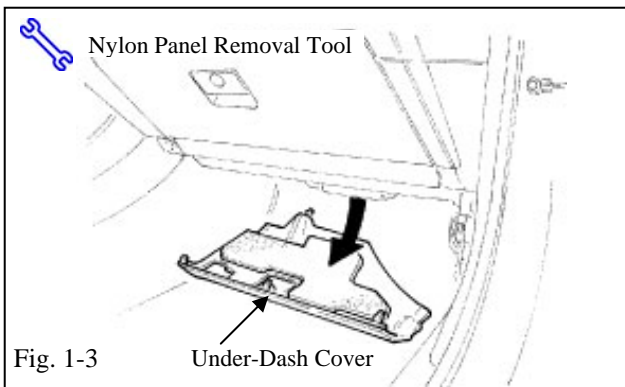
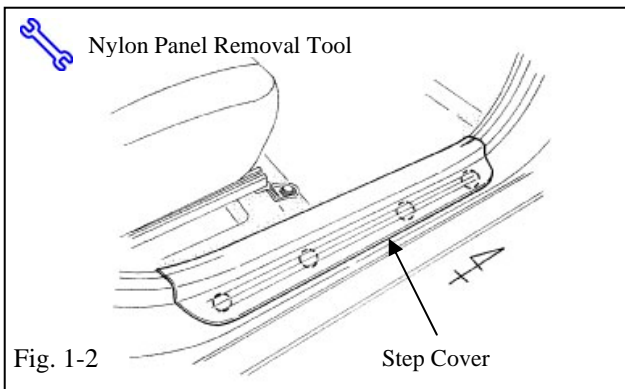
- Vehicle Protection (use of covers and blankets, cleaning chemicals, etc.).
- Safety (eye protection, rechecking torque procedure, etc.).
- Vehicle Disassembly/Reassembly (panel removal, part storage, etc.).
- Electrical Component Disassembly/Reassembly (battery disconnection, connector removal, etc.).

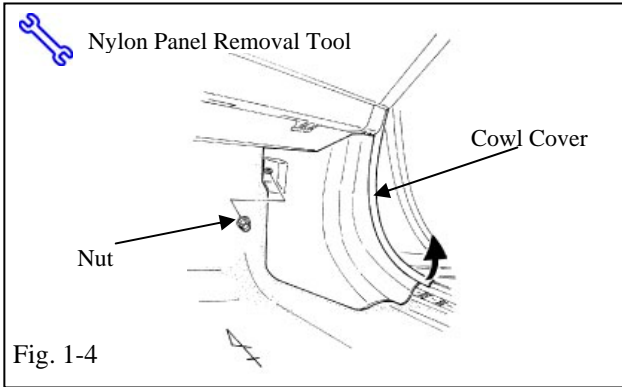
Please see your Toyota dealer for a copy of this document.



**1. Vehicle Disassembly.**

- (a) Remove the negative battery cable. (Fig. 1-1)
- (1) Protect the fender before starting.
- (2) Be careful not to touch the positive terminal.
- (b) Remove the passenger's side step cover. (Fig. 1-2)
- (c) Remove the under-dash cover. (Fig. 1-3)





(d) Remove the passenger's cowl cover.  
(Fig. 1-4)

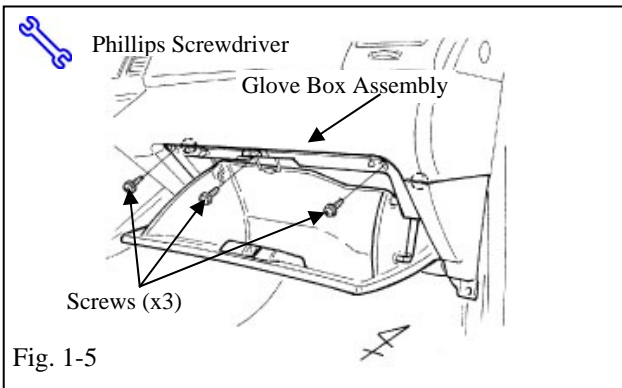
(1) Remove the nut securing the cowl cover.

(e) Remove the glove box assembly. (Fig. 1-5)

(1) Remove the three screws securing the glove box assembly.

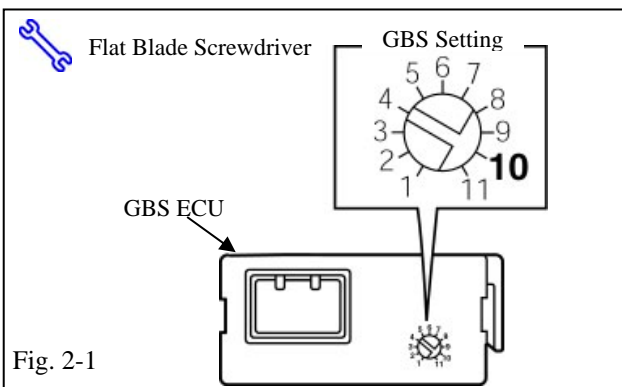
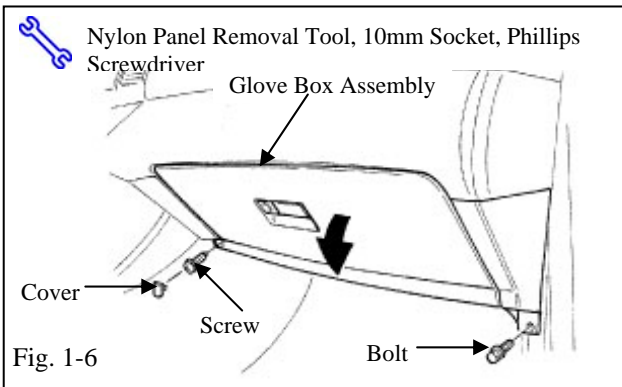
(f) Close the glove box assembly latch and then remove the remaining one screw and one bolt. (Fig. 1-6)

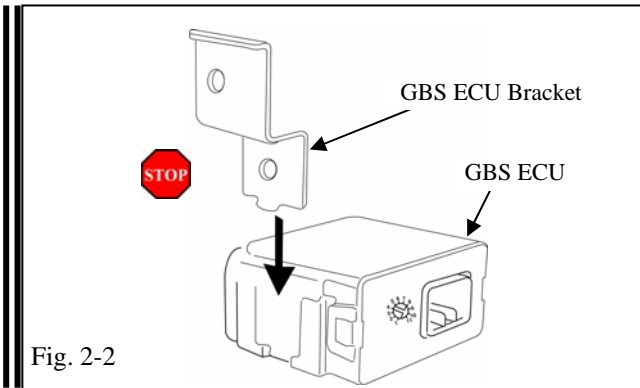
(1) Remove the cover from the glove box assembly.



## 2. ECU Preparation and Installation.

(a) Turn the GBS adjustment screw on the GBS ECU to the "10" position. (Fig. 2-1)



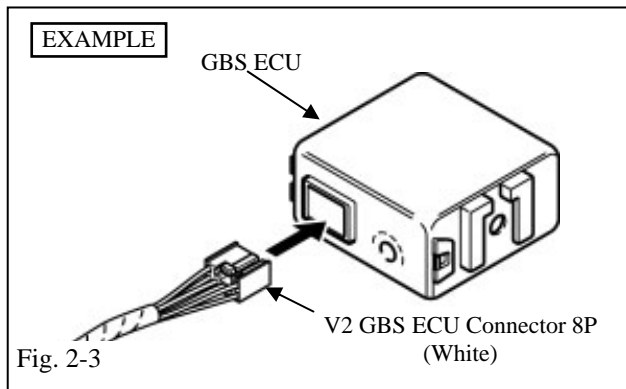


(b) Insert the GBS ECU mounting bracket into the indicated bracket slot on the GBS ECU. (Fig. 2-2)



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

(c) Using the bolt supplied in the kit, secure the GBS ECU to the passenger side center brace in the center console area. (Fig. 2-3)

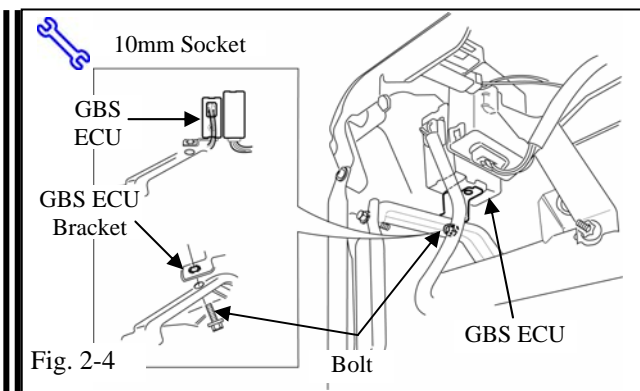


(1) Secure the GBS ECU as shown.

(d) Plug in the V2 harness' white 8P connector to the GBS ECU. (Fig. 2-4)

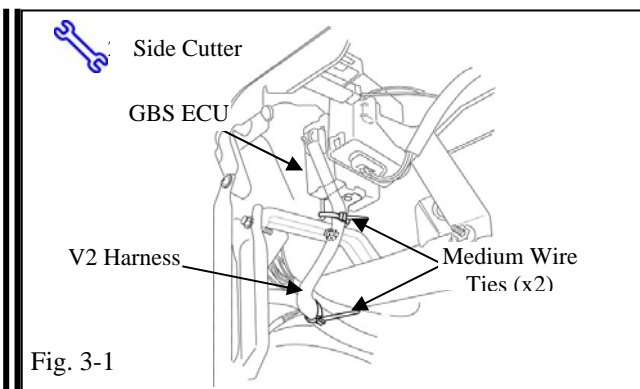
(1) Verify the connector is plugged in securely.

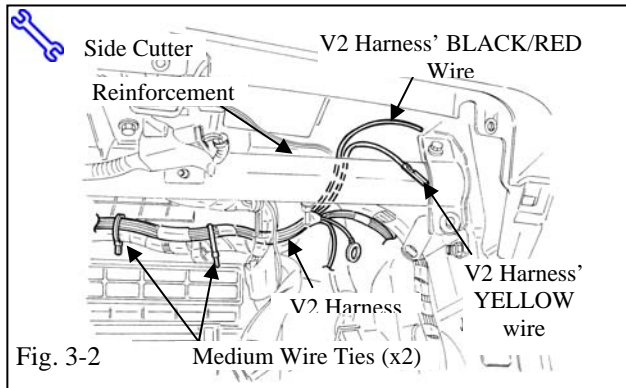
### 3. V2 Wire Harness Installation.



(a) Secure the V2 harness to the GBS ECU mounting bracket with one medium wire tie. (Fig. 3-1)

(b) Route the V2 harness toward the glove box area, then secure it to the vehicle harness with one medium wire tie. (Fig. 3-1)

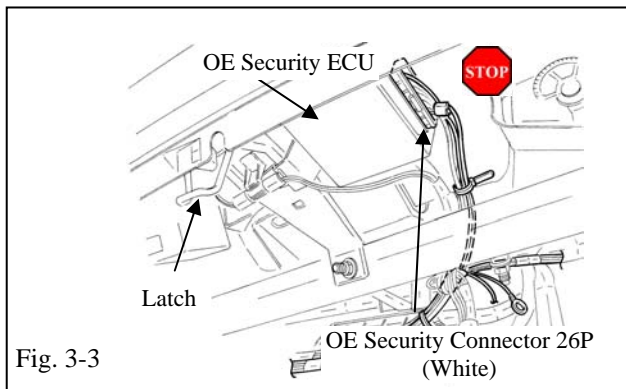




(c) Route the V2 harness through the glove box area, then route the V2 harness' BLACK/RED wire and YELLOW wire terminal behind the reinforcement as shown. (Fig. (3-2)

(d) Secure the V2 harness to the vehicle harness with two medium wire ties. (Fig. 3-2)

(e) Locate and disconnect the white 26P connector from the glove box area. (Fig. 3-3)

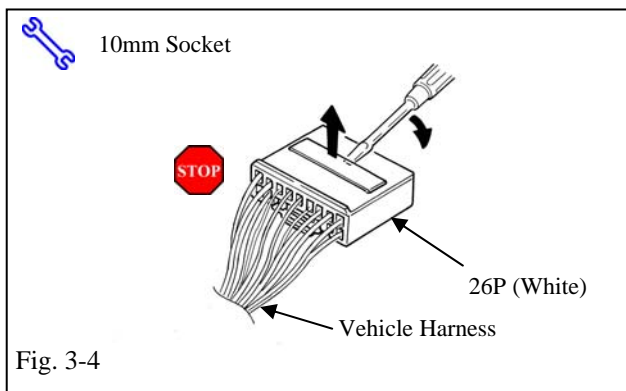


**STOP** (1) Do not pull on the wires; pull on the connector.

(f) Using a small Jeweler's Screwdriver or the like, lift up the terminal retainer on the back of the white 26P connector. (Fig. 3-4)

**STOP** (1) Do not pull out the retainer.

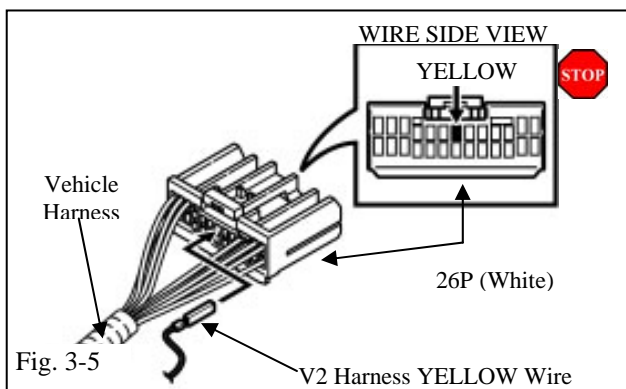
(g) Insert the terminal at the end of the V2 harness' YELLOW wire into the top row, seventh space from the left of the vehicle's harness' white 26P connector, then close the retainer. (Fig. 3-5)

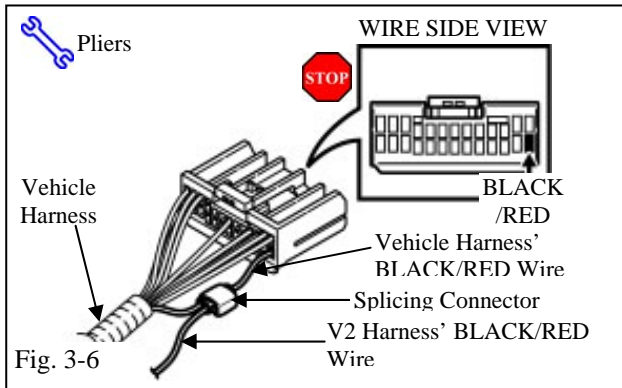


(1) Turn the connector so the wires face you and the tab is on top.

**STOP** (2) Verify the correct opening is chosen.

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





(h) Locate the wire in the bottom row, first space from the right, and attach the V2 harness' BLACK/RED wire with a splicing connector. (Fig. 3-6)

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



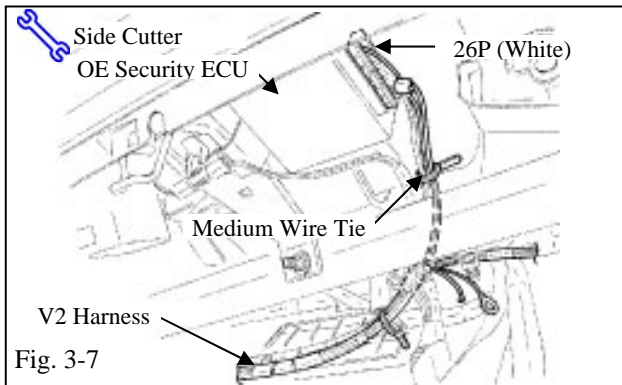
(2) Verify the correct wires are chosen for splicing.

(3) Make sure the splicing connector is applied properly.

(i) Plug the white 26P connector into the OE security ECU. (Fig. 3-7)

(1) Verify the connector is plugged in securely.

(j) Secure the V2 harness to the vehicle harness with a medium wire tie. (Fig. 3-7)

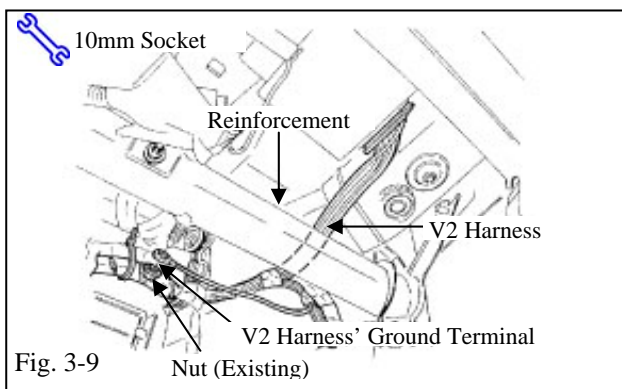
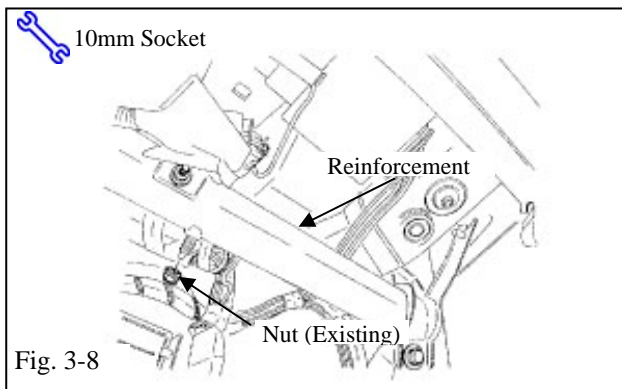


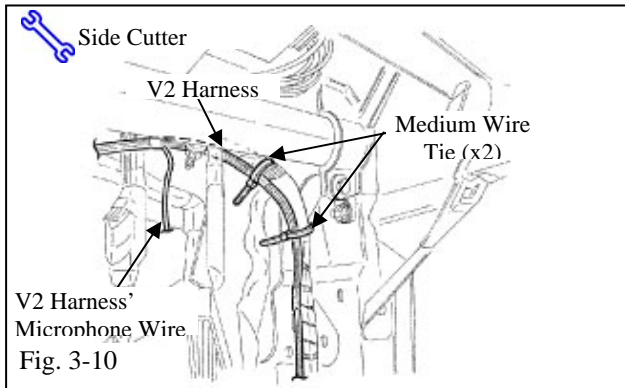
(k) Locate and remove the vehicle's existing nut from the right most ground point on the reinforcement. (Fig. 3-8)

(1) Do not discard the nut.

(l) Secure the V2 harness' ground wire terminal, along with the vehicle harness' ground wire terminal, with the existing nut. (Fig. 3-9)

(1) Verify the nut is tightened.



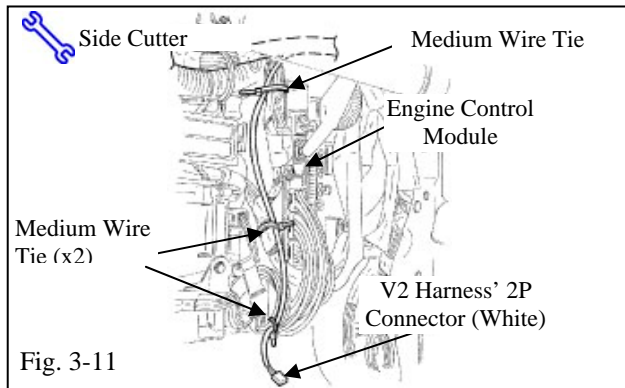


(m) Route the V2 harness toward the passenger side cowl area, then secure it to the vehicle harness with two medium wire ties.

(Fig. 3-10)

(1) Careful not to secure the V2 harness' microphone wire (white 2P connector).

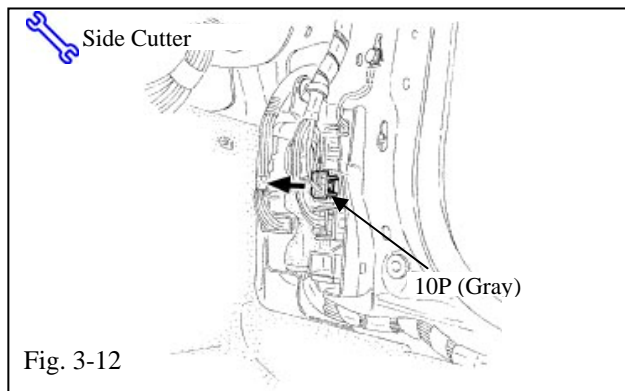
(n) Route the V2 harness' white 2P connector down toward the glove box area and then secure it to the vehicle harness with three medium wire ties. (Fig. 3-11)



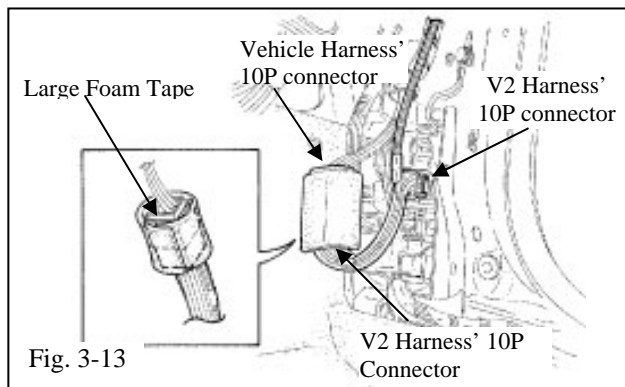
(o) Locate and disconnect the gray 10P connector from the passenger side cowl area. (Fig. 3-12)

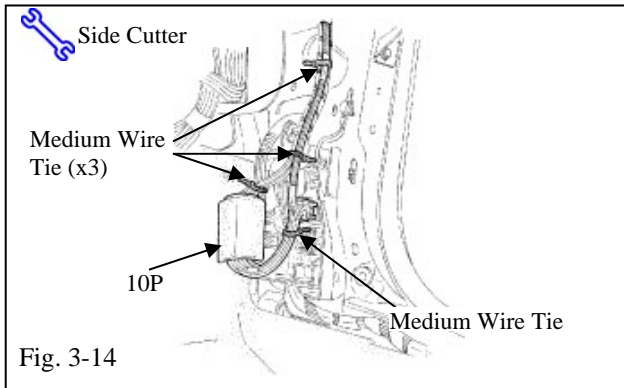
(1) Do not pull on the wires; pull on the connector.

(p) Plug in the V2 harness' gray 10P connector between the vehicle harness' gray 10P connector and the passenger side cowl area. (Fig. 3-13)



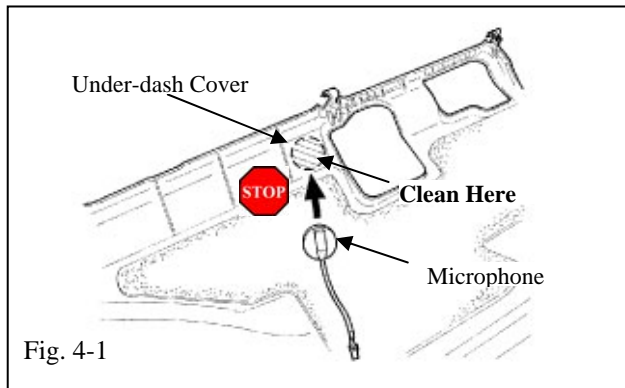
(q) Wrap the gray 10P connector with one large strip of foam tape. (Fig. 3-13)





- (r) Secure the V2 harness to the vehicle harness with four medium wire ties. (Fig. 3-14)

**4. Microphone Installation.**



- (a) Using 3M Prep Solvent –70, clean the area indicated on the backside of the under-dash cover. (Fig. 4-1)
- (b) Remove the backing sheet and secure the microphone to the backside of the under-dash cover. (Fig. 4-1)

(1) Secure the microphone as shown.

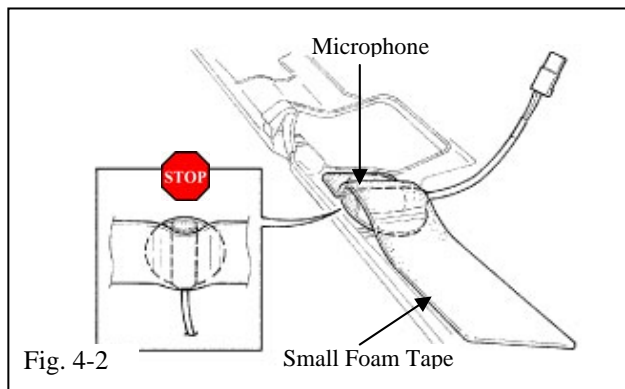


(2) Do not touch the adhesive surface of the microphone.



(3) Press the microphone to the glove box under the panel firmly.

- (c) Secure the microphone with one small strip of foam tape. (Fig. 4-2)



(1) Do not cover the opening of the microphone with the foam tape.

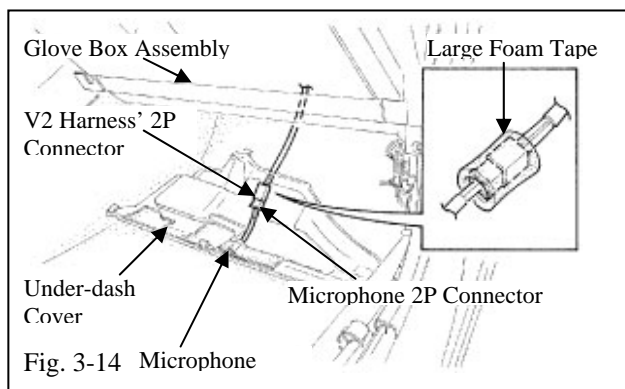
- (d) Refit the glove box assembly. (Fig. 4-3)

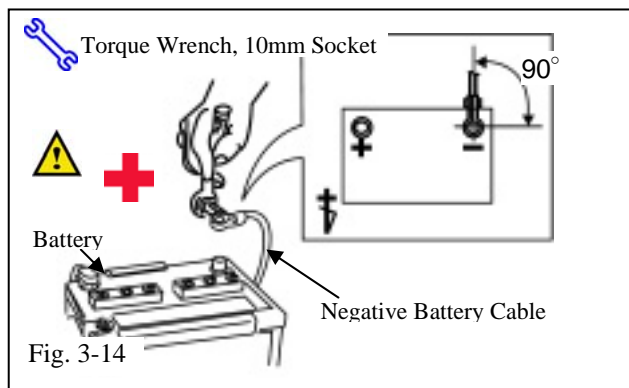
- (e) Plug in the microphone's 2P connector to the V2 harness' 2P connector. (Fig. 4-3)

(1) Verify the connectors are plugged in securely.



- (f) Wrap the 2P connector with one large strip of foam tape. (Fig. 4-3)

- (g) Refit the under-dash cover. (Fig. 4-3)





## 5. Completing the Installation.

- (a) Complete the reassembly of the vehicle.
  - (1) Reconnect any disconnected connector.
  - (2) Verify the panels fit together properly with no uneven gaps between them.
- (b) Clean up and remove any trash.
- (c) Reconnect the vehicle's negative battery cable. (Fig. 5-1)
  - (1) Position the negative terminal at an angle of 90° to the battery as shown.
  -  (2) Tighten the nut with 4.1N•m (36lbf•in) of torque.
  -  (3) Be careful not to touch the positive battery terminal.
- (d) Place the owner's manual, warranty card, and remote transmitters, left in their bags, in the glove box.

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

Check:

Look For:

Accessory Function Checks

**Close the hood before beginning.**

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

Wait 30 seconds.

**Perform the following check in a temperature-controlled environment.**

**(50 – 90 F)**



Pull the plunger on the striker tool all the way out to tap the center of the driver's door window and trigger an alarm.

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

1. The tail and marker lights flash once.  
The buzzer chirps once.  
All doors lock.  
The Security LED lights up.

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

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

**NOTE:** Increase the GBS sensitivity setting to the next level if the alarm does not trigger.

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

4. The horn stops sounding.  
All the lights stop flashing and/or turn off.  
The status monitor's LED turns off, but an immobilizer's LED remains on.

**TOYOTA CAMRY 2005 - TVIP V5 (RS3200 PLUS)**  
 Checklist - these points **MUST** be checked to ensure a quality installation.

<u>Check:</u>	<u>Look For:</u>
<u>Vehicle Function Checks</u>	
<input type="checkbox"/> Head Lights	Functioning Head Lights
<input type="checkbox"/> High Beams	Functioning High Beams
<input type="checkbox"/> Turn Signal Lights	Functioning Turn Signal Lights
<input type="checkbox"/> Tail Lights	Functioning Tail Lights
<input type="checkbox"/> Stop Lights	Functioning Stop Lights
<input type="checkbox"/> Backup Lights	Functioning Backup Lights
<input type="checkbox"/> Hazard Lights	Functioning Hazard Lights
<input type="checkbox"/> Marker Lights	Functioning Marker Lights
<input type="checkbox"/> Dome/Courtesy/Map Lights	Functioning Dome/Courtesy/Map Lights
<input type="checkbox"/> Panel/Switch Illumination	Functioning Controls/Illumination
<input type="checkbox"/> Accessory Controls/Illumination (if equipped)	Functioning Accessory
<input type="checkbox"/> Key Sensor Buzzer	Functioning Key Sensor
<input type="checkbox"/> Fog Lights (if equipped)	Functioning Fog Lights
<input type="checkbox"/> Daytime Running Lights (if equipped)	Functioning DR Lights
<input type="checkbox"/> Trunk/Tailgate/Bed Lights (if equipped)	Functioning Lights
<input type="checkbox"/> Glove Box Light (if equipped)	Functioning Glove Box Light
<input type="checkbox"/> Cruise Control Light (if equipped)	Functioning Cruise Control Light
<input type="checkbox"/> Seat Belt Warning Light	Functioning Seat Belt Warning Light. If the warning light remains on, it may indicate a system malfunction.

**TOYOTA CAMRY 2005 - TVIP V5 (RS3200 PLUS)**

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

Check:

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

Look For:

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

**TOYOTA CAMRY 2005 - TVIP V5 (RS3200 PLUS)**

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

Check:

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

Look For:

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