

Part Number: 08586-3D892**Kit Contents**

Item #	Quantity Req'd.	Description
1	1	Wire Harness
2	1	V2 Security ECU
3	1	Microphone
4	1	Owner's Guide

Hardware Bag Contents

Item #	Quantity Req'd.	Description
1	1	ECU Mounting Bracket
2	1	Butyl Tape
3	1	Bolt
4	2	Small Foam Tape Strips
5	5	Medium Wire Ties
6	5	Large Wire Ties

Additional Items Required For Installation

Item #	Quantity Req'd.	Description

Conflicts

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Recommended Tools

Personal & Vehicle Protection	Notes
Safety Glasses	
Safety Gloves	Optional
Vehicle Protection	Blankets, Part Boxes
Special Tools	Notes
Striker Tool (PPO only)	CAD-E IADE P/N ALL 02-016-01
Installation Tools	Notes
Screwdriver	Phillips Head, #2
Screwdriver	Small, Flat Blade
Screwdriver	Flat Blade, Jeweler's
Wrench	Pneumatic/Electric
Socket	10 mm
Ratchet	
Nylon Panel Removal Tool	e.g. Panel Pry Tool #1 Toyota SST # 00002-06001-1
Torque Wrench	36 lbf-in
Pliers	Needle Nose
Cloth	Lint-free
Side Cutter Tool	
Special Chemicals	Notes
Cleaner	3M™ Prep Solvent-70

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

General Applicability

Note: 4Runner with factory TDS system, *only*.

Recommended Sequence of Application

Item #	Accessory
1	V2

*Mandatory

Vehicle Service Parts (may be required for reassembly)

Item #	Quantity Req'd.	Description
1	4	Center Cluster Panel Clips

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.



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

Procedure

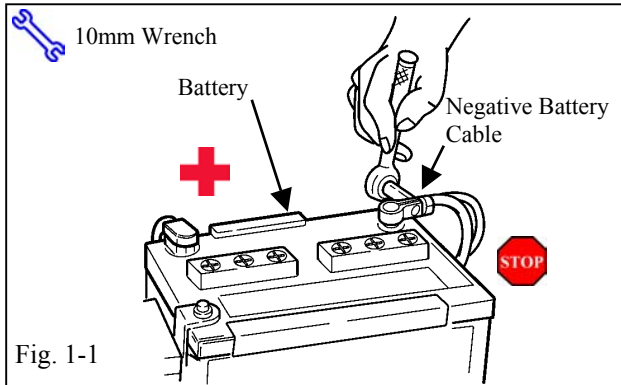
Care must be taken when installing this accessory to ensure damage does not occur to the vehicle. The installation of this accessory should follow approved guidelines to ensure a quality installation.

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) For vehicles equipped with automatic transmission, place the shifter in low gear and set the parking brake prior to disconnecting the battery.

- (b) Remove the negative battery cable.
(Fig. 1-1)

- (1) Protect the fender before starting.

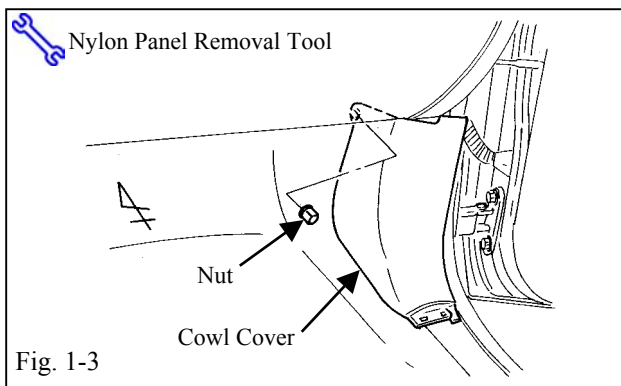
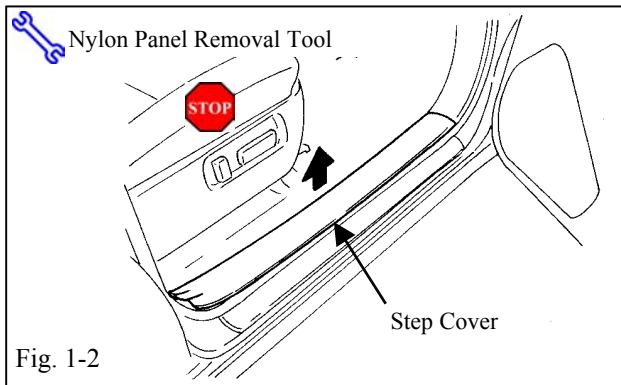
- (2) Do not touch the positive terminal with any tool when removing cable.

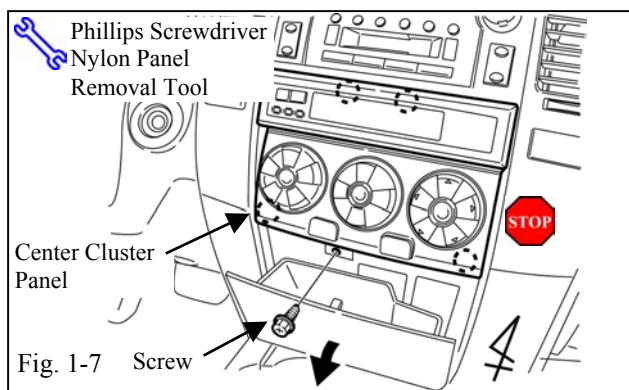
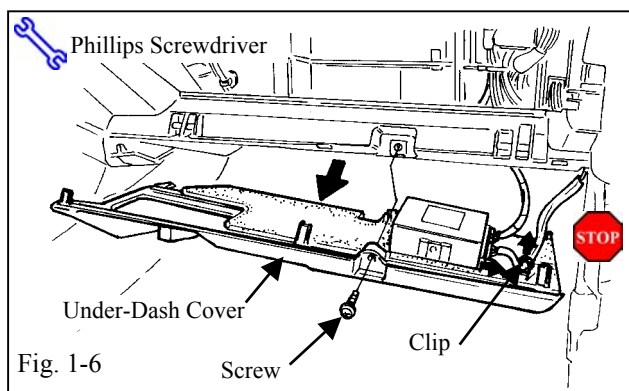
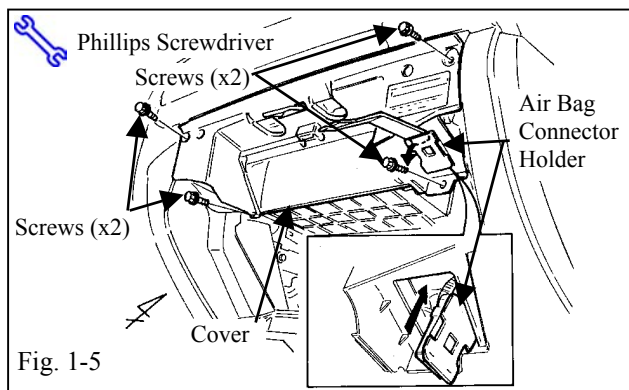
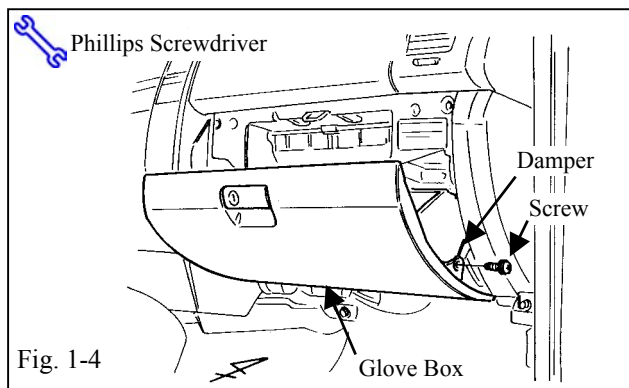
- (c) Remove the passenger side step cover.
(Fig. 1-2)

- (1) Cover the floor and seats before starting.

- (d) Remove the passenger side cowl cover.
(Fig. 1-3)

- (1) Remove the nut securing the cover.





(e) Remove the glove box assembly. (Fig. 1-4)

(1) Remove the screw securing the glove box assembly.

(2) Remove the glove box damper.

(f) Remove the cover from the upper glove box area. (Fig. 1-5)

(1) Remove the four screws securing the cover.

(2) Remove the air bag connector holder from the cover.

(g) Remove the under-dash cover below the glove box area. (Fig. 1-6)

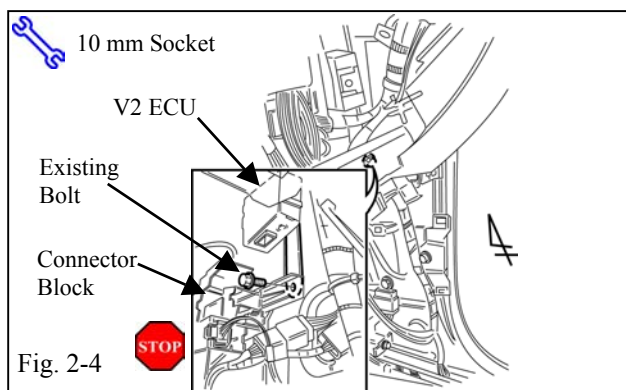
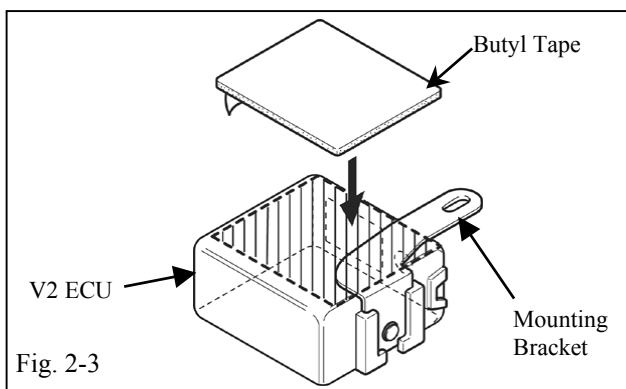
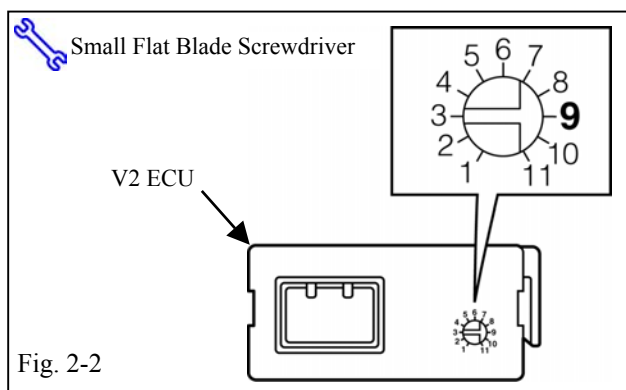
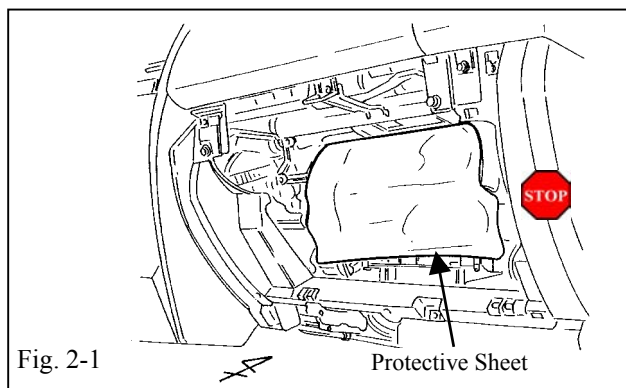
(1) Remove the one screw securing the cover.

(2) Disconnect the two connectors of the 4WD control ECU (if equipped) and one connector of the tire pressure monitor ECU. Then remove the one vehicle wire harness clip.

(h) Remove the center cluster panel. (Fig. 1-7)

(1) Remove the one screw securing the panel.

(2) Disconnect all connectors from the panel.

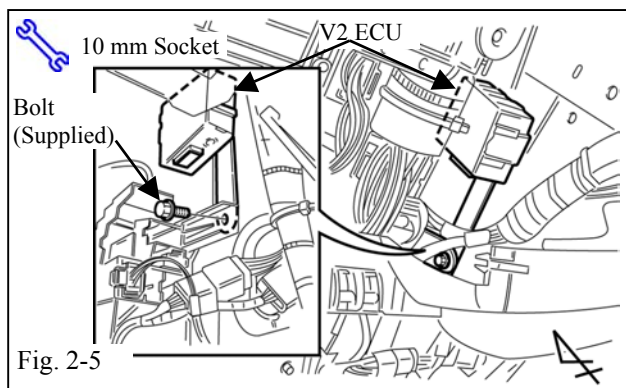


2. V2 ECU Preparation and Installation.



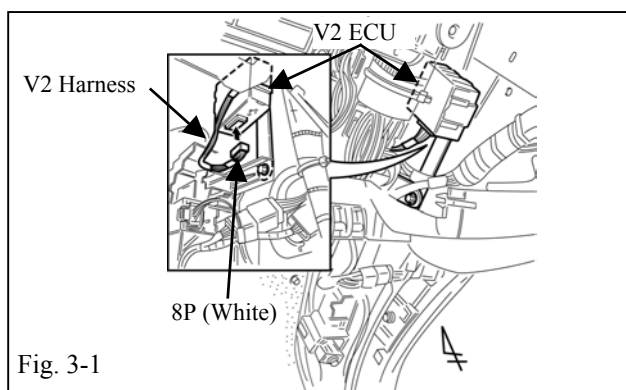
- (a) Prepare a protective sheet (blanket), and cover the blower assembly in the glove box area with the sheet as shown. (Fig. 2-1)
- (b) Turn the adjustment screw on the V2 ECU to the "9" position. (Fig. 2-2)
- (c) Insert the V2 ECU mounting bracket into the indicated bracket slot on the V2 ECU. (Fig. 2-3)
 - (1) Insert the mounting bracket into the correct slot; you have only one chance to install it properly.
 - (2) Make sure the bracket is firmly attached to the ECU.
- (d) Apply the butyl tape to the V2 ECU as shown. (Fig. 2-3)
- (e) Locate and remove the existing bolt from the connector block in the passenger side cowl area. (Fig. 2-4)
 - (1) Discard the existing bolt.





- (f) Mount the V2 ECU on the right side of the connector block with the bolt supplied in the kit. (Fig. 2-5)

3. V2 Wire Harness Installation.

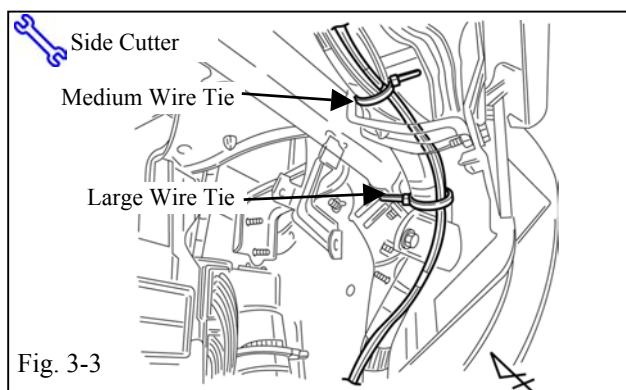
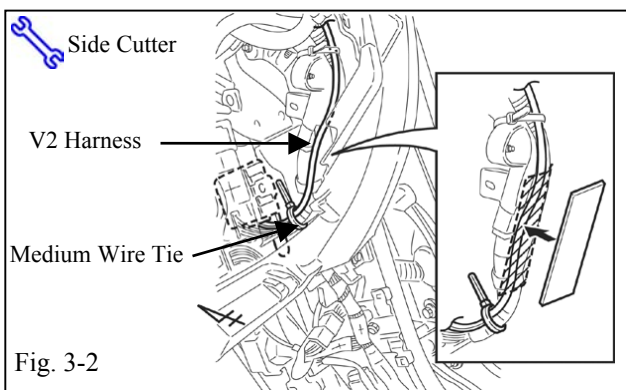


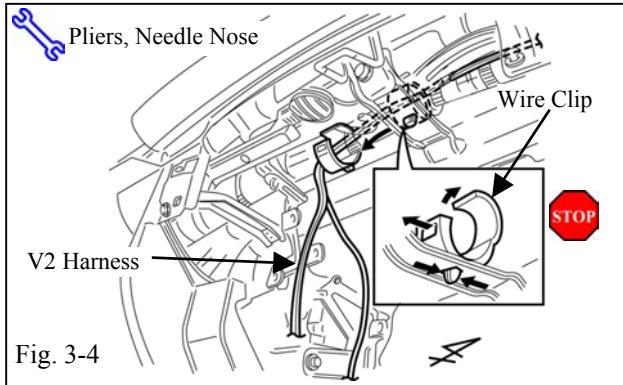
- (a) Plug the V2 harness' white 8P connector into the V2 ECU. (Fig. 3-1)

(1) Verify the connector is plugged in securely.

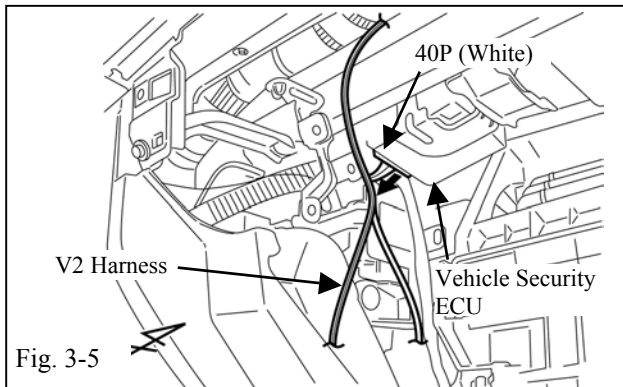
- (b) Secure the V2 harness to the vehicle harness with one medium wire tie and one small foam tape strip. (Fig. 3-2)

- (c) Route the V2 harness toward the upper glove box area, and secure it to the vehicle harness with one large wire tie and one medium wire tie. (Fig. 3-3)

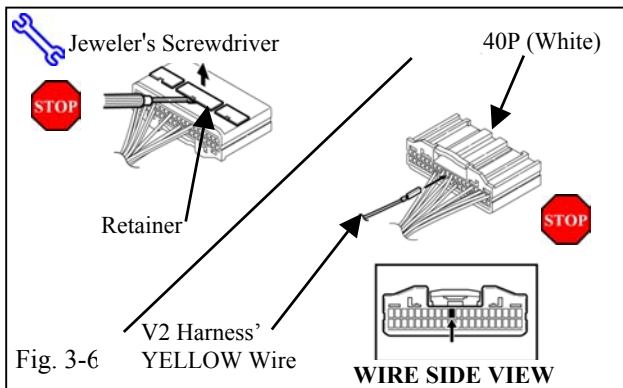




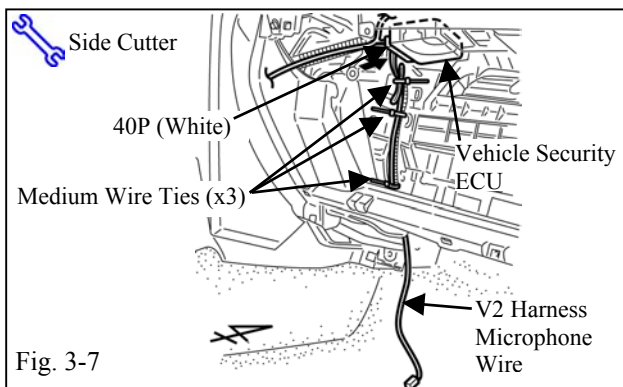
- (d) Route the V2 harness toward the left side of the glove box area, and secure it to the vehicle harness with the existing vehicle wire clip. (Fig. 3-4)



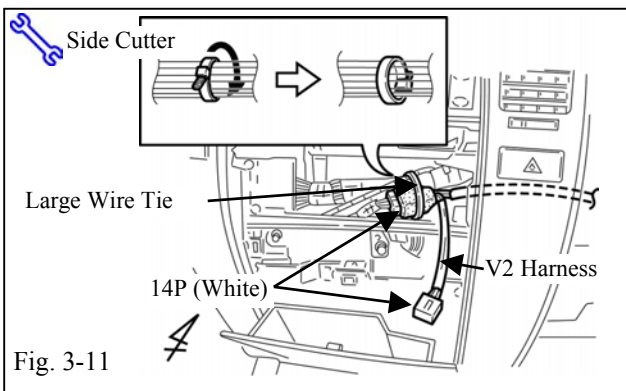
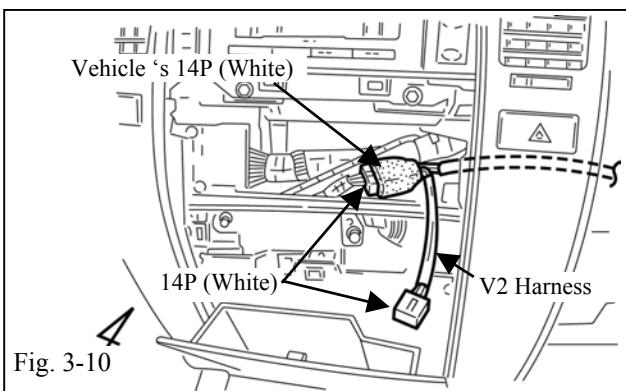
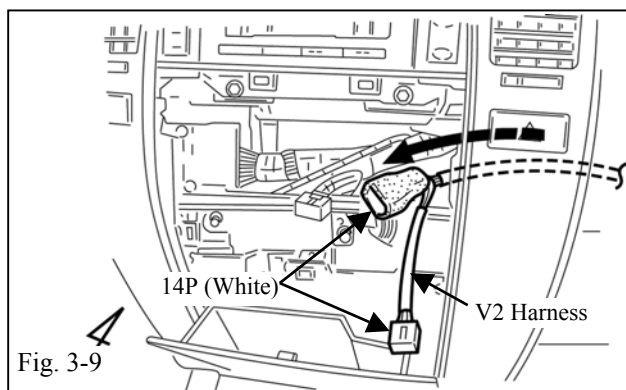
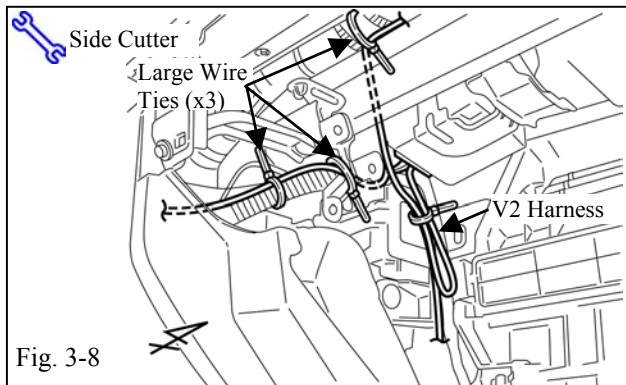
- (1) Remove the vehicle wire clip on the center brace and open the vehicle wire clip.
 - (2) Route the V2 wire harness through the open vehicle wire clip.
 - (3) Close and reinstall the vehicle wire clip to the center brace.
- (e) Locate the vehicle security ECU's white 40P connector in the upper left side of the glove box area, and disconnect it. (Fig. 3-5)
- (f) Using a small jeweler's screwdriver, lift up the terminal retainer on the back of the white 40P connector. (Fig. 3-6)



- (1) Do not pull out the retainer.
- (g) Insert the terminal at the end of the V2 harness' YELLOW wire into the top row, tenth space from the left of the white 40P connector, then close the retainer. (Fig. 3-6)



- (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. The terminal should not come out when pulled lightly from the back. If the terminal comes off, push it in again.
- (h) Reconnect the white 40P connector to the vehicle security ECU. (Fig. 3-7)
- (i) Secure the V2 harness' microphone wire to the vehicle harness with three medium wire ties. (Fig. 3-7)



(1) Bundle and secure the excess V2 harness' YELLOW wire in the top wire tie.

(j) Secure the V2 harness to the vehicle harness with three large wire ties. (Fig. 3-8)

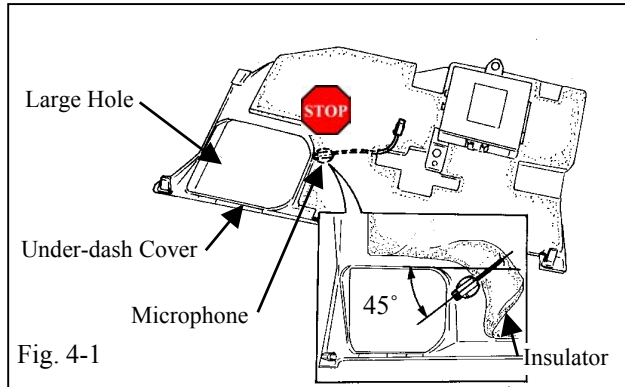
(k) Route the V2 harness toward the center cluster panel area. (Fig. 3-9)

(l) Plug the V2 harness' white 14P male connector into the vehicle harness white 14P female connector. (Fig. 3-10)

(1) Verify the connectors are plugged in securely.

(m) Secure the V2 harness to the vehicle harness with one large wire tie. (Fig. 3-11)

(1) Connect the V2 harness' white 14P female connector to the center cluster panel during reassembly of the vehicle.



4. Microphone Installation.

- (a) Using 3M™ Prep Solvent-70, clean the area indicated on the back side of the under-dash cover. (Fig. 4-1)

- (1) Always use a clean (lint free scratch resistant) soft cloth (or wipe), and clean a small area at a time (~ 3 ft. x 3 ft. max.).

- (2) **Shake well.**

- (3) Apply 3M™ Prep Solvent-70 to cloth or wipe. Do not spray cleaning solution directly on any vehicle surfaces.

- (4) Clean surface thoroughly and wipe dry immediately with a new clean cloth. Do not allow cleaner to air dry.

- (c) Remove the backing sheet and secure the microphone to the back side of the under-dash cover. (Fig. 4-1)

- (1) Secure the microphone under the insulator at a 45° angle with the back of the microphone lined up with the front edge of the large hole as shown. (Fig. 4-1)

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

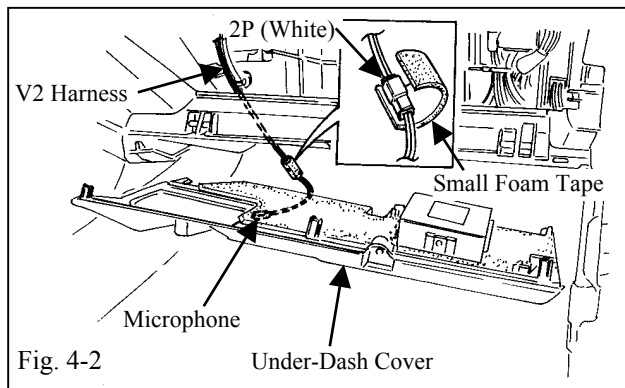
- (3) Press the microphone to the under-dash cover firmly.

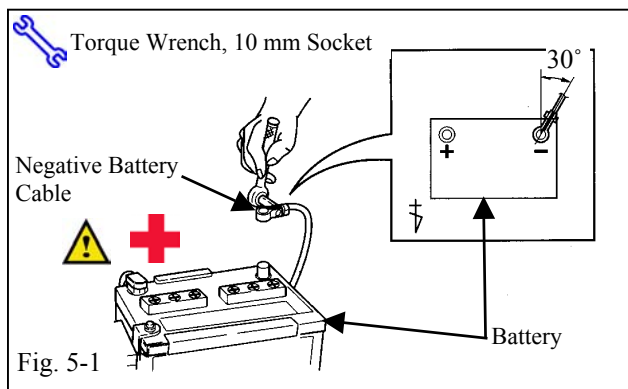
- (d) Plug in the microphone's 2P connector to the V2 harness' 2P connector. (Fig. 4-2)

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

- (e) Wrap the 2P connectors with a small foam tape strip. (Fig. 4-2)

- (f) Reinstall the under-dash cover. (Fig. 4-2)





5. Completing the Installation.

(a) Complete the reassembly of the vehicle.

(1) Reconnect any disconnected connectors.

(2) Verify the panels fit together properly with no uneven gaps between them.

(b) 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 30° to the battery as shown, or to the original factory installed angle.



(2) Tighten the nut to 4.1 N-m (36 lbf-in).



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

(4) Reattach the negative battery cable clip.



(d) Place the owner's manual, left in the protective bag, in the glove box.

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

Check:

Look For:

Accessory Function Checks

Fit appropriate fuse before beginning.

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°).

-  ☐ With the tip of key (or Striker Tool pulled all the way out (PPO only)), tap the center of the driver's door window to trigger the "warn away" 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 turn signal lights flash once.
The buzzer chirps once.
All doors lock.
The Immobilizer System's LED lights up.
2. After 30 seconds, the LED starts flashing; the system is now armed.

3. The horn sounds repeatedly.
The interior lights turn on.
The headlights flash repeatedly.
The turn signal lights flash repeatedly.
The Security LED lights up.

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

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

4. The horn stops sounding.
All the lights stop flashing.
The status monitor's LED lights up.
The driver's door unlocks.

TOYOTA 4RUNNER 2006 - TVIP V2 (GBS ADD-ON)

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

Check:

Vehicle Function Checks

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

Look For:

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 Controls

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.

TOYOTA 4RUNNER 2006 - TVIP V2 (GBS ADD-ON)

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

Check:

- ☐ Air Bag
- ☐ 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 (if equipped)
- ☐ Rear Wiper/Washer (if equipped)
- ☐ Clock (if equipped)
- ☐ Accessory Power Socket (if equipped)
- ☐ Starter

Look For:

Functioning Air Bag Warning Light. If the warning light remains "ON", it may indicate a system malfunction.

Functioning ABS Light. If warning light remains "ON", it may indicate a system malfunction.

Functioning Lamp Failure Sensor. 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 Accessory Power Socket

Functioning Starter

TOYOTA 4RUNNER 2006 - TVIP V2 (GBS ADD-ON)

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

Check:

- ☐ Audio/Video (if equipped)
- ☐ Power Sliding Door (if equipped)
- ☐ Convenience Memory Setting (if equipped)
- ☐ Heated Seats (if equipped)
- ☐ Massage Seats (if equipped)
- ☐ Rear Window Defogger (if equipped)
- ☐ Side Mirror Defogger (if equipped)
- ☐ Front Windshield Defogger (if equipped)
- ☐ Navigation System (if equipped)
- ☐ Tire Pressure Monitor
- ☐ Passenger Occupant Air Bag Light

Remove the appropriate fuse after checks completed.

Look For:

Functioning Audio/Video

Functioning Sliding Door

Functioning Convenience Memory Setting

Functioning Seats

Functioning Massage Seats

Functioning Rear Window Defogger

Functioning Side Mirror Defogger

Functioning Front Windshield Defogger

Functioning Navigation System

Functioning Tire Pressure Monitor

Functioning Passenger Occupant Air Bag Light