Part Number: PT398-34142

Conflicts

Vehicles with Factory Alarm Systems, Low Grade package or base Display Audio.

Recommended Sequence of Application

Item #	Accessory	
1	TVIP/RES	Any TVIP or RES system
2	XM Radio	

*Mandatory

Kit Contents

Item #	Quantity	Description
1	1	GBS ECU w/bracket attached
1	1	Jumper Connector

Hardware Bag Contents

Item #	Quantity	Description
1	1	M6 Flange Nut
2	1	GBS Microphone
3	2	V2 Window Label w/ red tag (discard)
4	2	V2 Window Label w/ red tag SPANISH (discard)
5	2	V5 Window Label
6	2	V5 Window Label SPANISH
7	1	V2 Owner's Guide (discard)
8	1	V5 Owner's Guide

Additional Items Required For Installation

Item #	Quantity	Description

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
Techstream Notebook	
Installation Tools	**Notes**
Phillips Head Screwdriver	#2, screwdriver or tip
Flat Blade Screwdriver	1/8" wide screwdriver
Nylon Panel Removal Tool	e.g. Panel Pry Tool #1 Toyota SST # 00002-06001-01
Torque Wrench	Battery - 48 in•lbf (5.4 N•m)
Clear Tape	
Socket	10mm, Extension
Special Chemicals	**Notes**
Cleaner	VDC approved cleaner
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.

SAFETY TORQUE: This mark indicates that torque is related to safety.

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

Ⓐ GBS ECU	Ⓑ GBS Microphone													
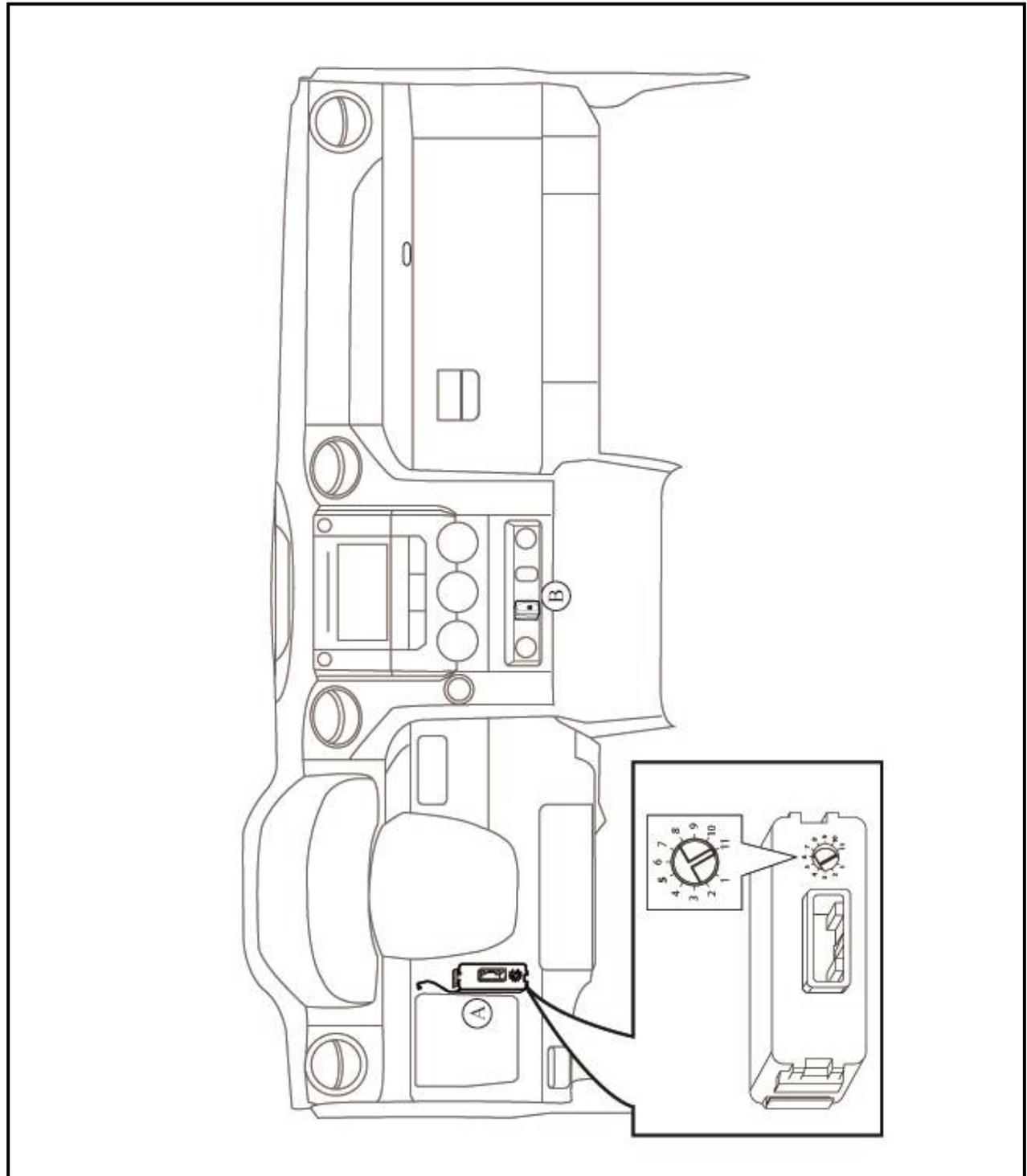
	Description	Hood Switch Jumper Connector.												
	Vehicle													
	TVIP													
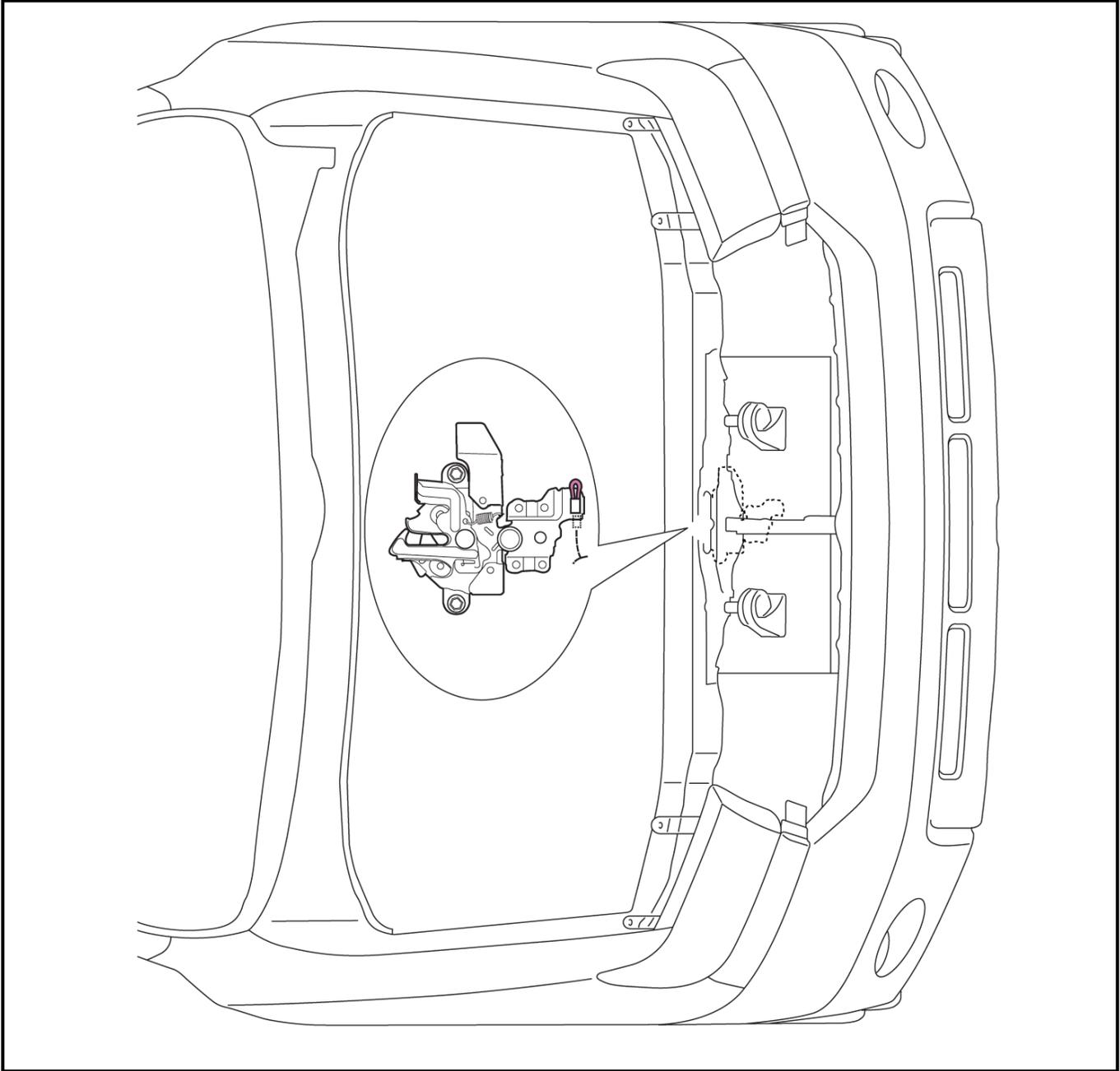
1. Hood Switch Confirmation

Check if Hood Switch is installed

YES   NO

WITH Hood Switch

WITHOUT Hood Switch

(a) Vehicles with Automatic Transmission should be placed in Park and have the Parking Brake set before disconnecting the Battery
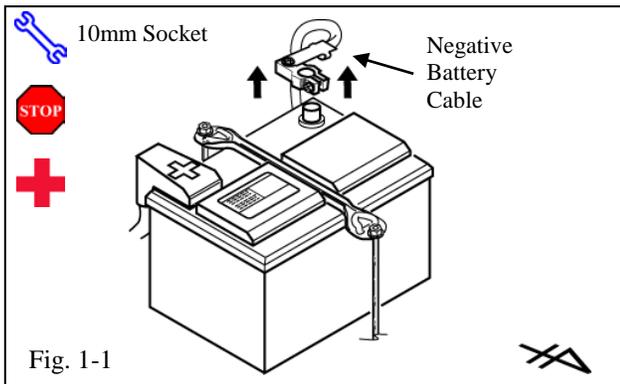
(b) Remove the Negative Battery Cable. (Fig. 1-1)

(1) Protect the Fender before starting.

(2) Note the Battery Cable position, as it will be reinstalled in the same position.

DO NOT TOUCH THE POSITIVE BATTERY TERMINAL.

10mm Socket

Negative Battery Cable

Fig. 1-1

VEHICLE'S WITHOUT HOOD SWITCH ONLY

2. Jumper Connector Installation

(a) Remove Vehicle's Grille. (Fig 2-1)

    (1) Add Protection Tape around the surrounding area.

    (2) Remove 4 Bolts

    (3) Remove 2 Clips

    ⚠ (4) Pull the bottom of the Vehicle's Grille in order as shown. Unhook top side of grille from Bolt Anchors.

10 mm socket

Fig. 2-1
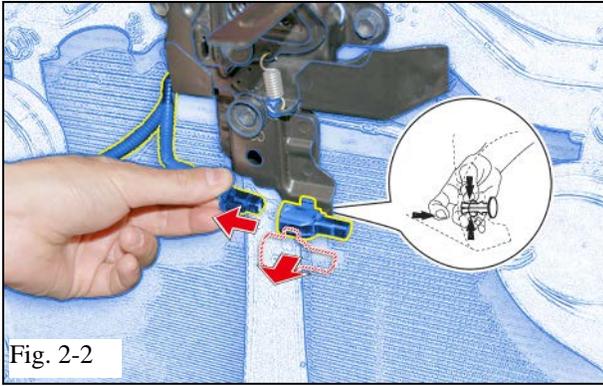
Fig. 2-2

(b) Disconnect the Vehicle's Pre-Connector from the Dummy Connector. (Fig. 2-2)

(1) Discard the Dummy Connector.

Fig. 2-3

(c) Install the Jumper Connector to the Vehicle's Hood Switch Pre-Connector and attach to Vehicle. (Fig. 2-3)

(d) Reinstall the Vehicle's Grille

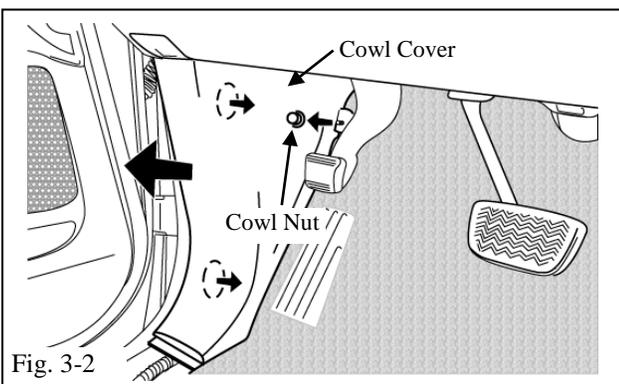(1) Reinstall top edges of the Vehicle's Grille.

(2) Snap Vehicle Grille's bottom Clips in place.

3. Vehicle Disassembly

Nylon Panel Removal Tool
Step Cover
Fig. 3-1
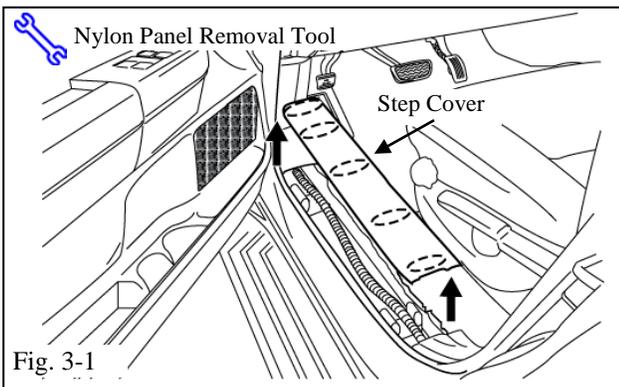
(a) Remove the Driver's Step Cover. (Fig. 3-1)

(1) Begin by protecting the Vehicle Interior with Blankets.
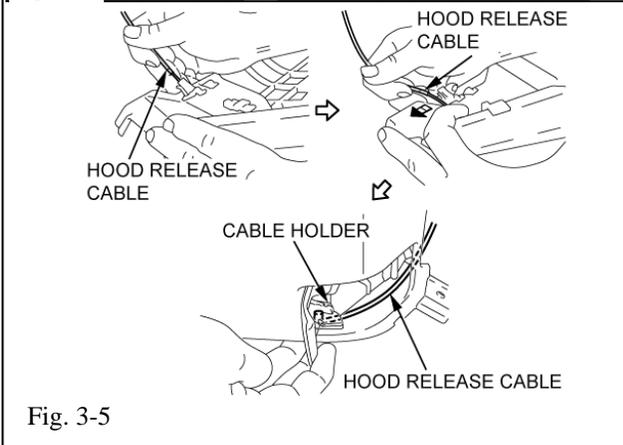

Cowl Cover
Cowl Nut
Fig. 3-2

(b) Remove the Driver's Cowl Cover. (Fig. 3-2)

(1) Remove 1 Cowl Nut.

Nylon Panel Removal Tool

Fig. 3-3

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

10mm Socket, Extension
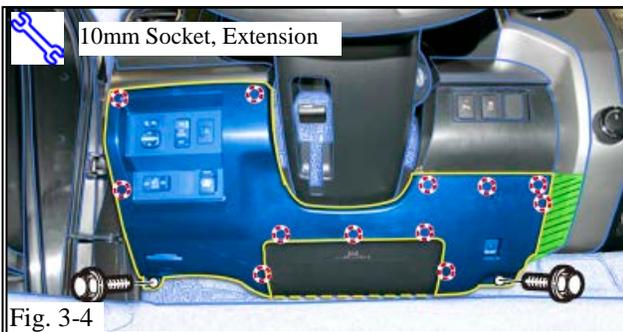
Fig. 3-4

(d) Remove 2 bolts from the lower finish panel. Remove lower finish panel. (Fig. 3-4)

  (1) Add Protection Tape to the Center Console as shown.

HOOD RELEASE CABLE

HOOD RELEASE CABLE

HOOD RELEASE CABLE

CABLE HOLDER

HOOD RELEASE CABLE

Fig. 3-5

(e) Remove hood release cable from release lever. (Fig. 3-5)

  (1) Move cable out from hood release lever assembly.

  (2) Move cable to the slot side of the hood release lever assembly.

  (3) When the cable is clear of the hood release lever retaining area, move the cable towards the lever and disconnect the inner cable end from the lever.

Nylon Panel Removal Tool

Fig. 4-1

Nylon Panel Removal Tool

Fig. 4-2

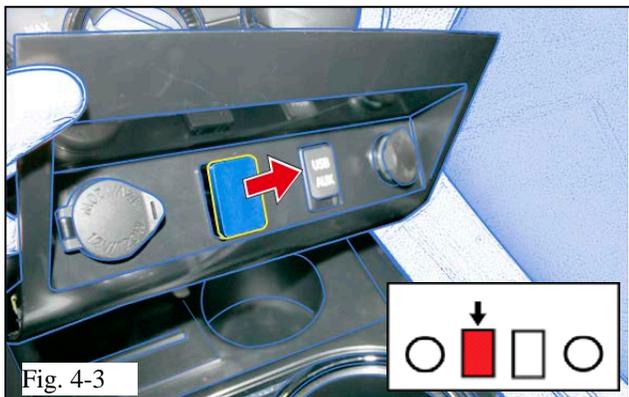

Fig. 4-3

Fig. 4-4

4. GBS Microphone Installation

FOR VEHICLES WITH FLOOR MOUNT AUTOMATIC SHIFT LEVERS ONLY. (Steps a-b)

(a) Push on the Shift Release with taped screwdriver and Shift to Neutral. (Fig. 4-1)

(b) Remove the Center Cluster below the Climate Control Console. (Fig. 4-1)

FOR VEHICLES WITH COLUMN MOUNT AUTOMATIC SHIFT LEVERS ONLY. (Step c)

(c) Remove the Center Cluster below the Climate Control Console. (Fig. 4-2)

(d) Remove the Knockout Cover from the Center Cluster. (Fig. 4-3)

　(1) Disconnect the vehicle's 4P Pre-Connector

　(2) Discard the Knockout Cover.
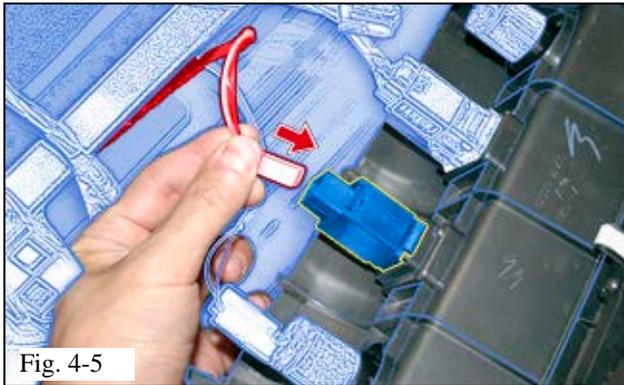
(e) Insert GBS Microphone into Center Cluster. (Fig. 4-4)

Fig. 4-5

(f) Connect the Vehicle 4P Pre-Connector to the GBS Microphone (Fig. 4-5)

(g) Re-Install the Center Cluster.
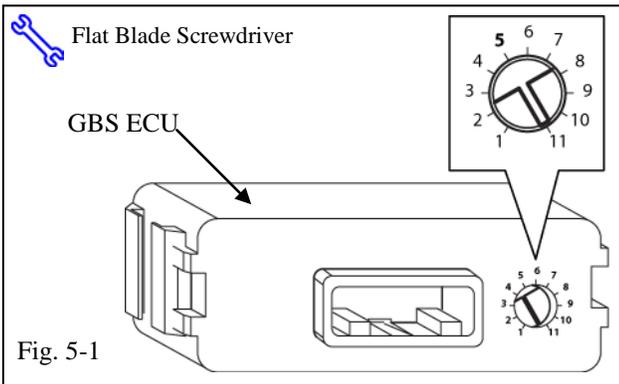
5. GBS ECU Preparation & Installation

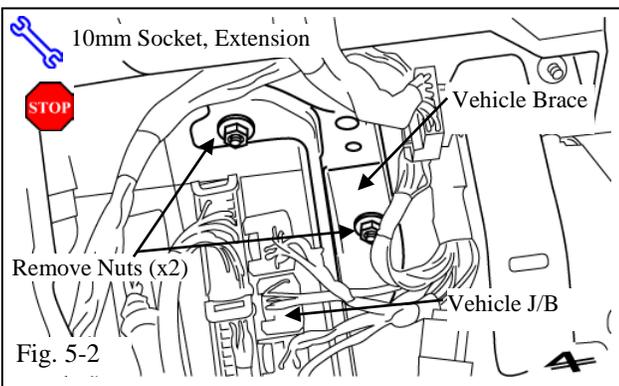(a) Verify that the GBS ECU's sensitivity is set to 5. (Fig. 5-1)

Flat Blade Screwdriver

GBS ECU

Fig. 5-1

10mm Socket, Extension

STOP

Vehicle Brace

Remove Nuts (x2)

Vehicle J/B

Fig. 5-2

➕ **CAUTION:** SHARP METAL EDGES FOR STEPS B-H

(b) Remove 2 Nuts from the Vehicle Brace near the Drivers Side J/B. (Fig. 5-2)

(c) Pull the Brace away from the Vehicle Reinforcement. (Fig. 5-2)

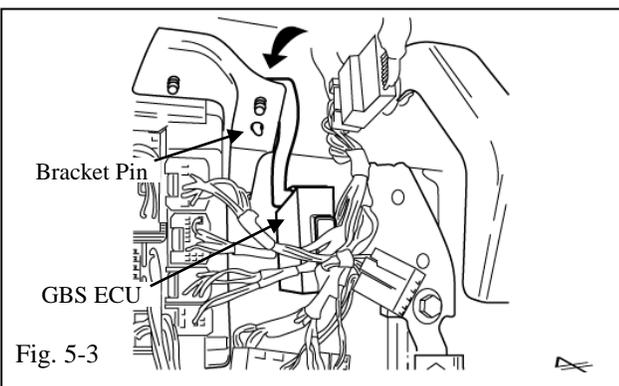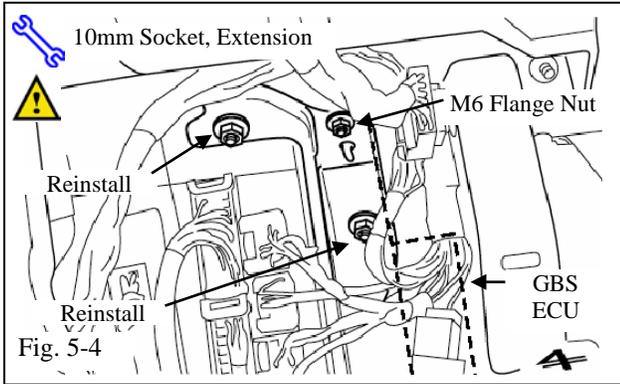STOP   (1) Do not remove the Brace from the studs.

Bracket Pin

GBS ECU

Fig. 5-3

(d) Install Bracket and GBS ECU. (Fig. 5-3)

(1) Make sure that the Bracket Pin seats properly.

Fig. 5-4

10mm Socket, Extension

M6 Flange Nut

Reinstall

Reinstall

GBS ECU

Fig. 5-5

8P Connector

Fig. 5-6

8P Connector

GBS ECU

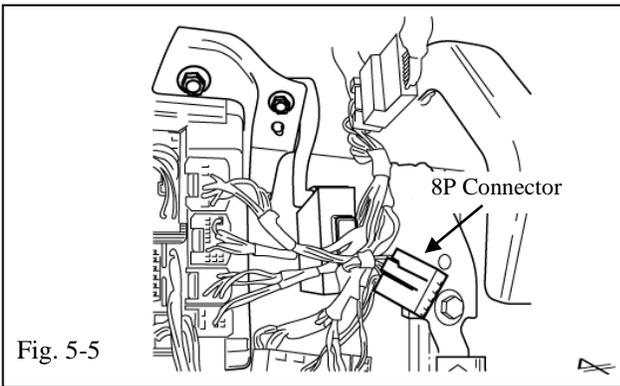(e) Use the M6 Flange Nut from the supplied kit to secure the ECU Bracket in place. (Fig. 5-4)

(f) Re-secure the Vehicle Brace by reinstalling 2 Nuts. (Fig. 5-4)

(1) Verify that the Bracket is secure.

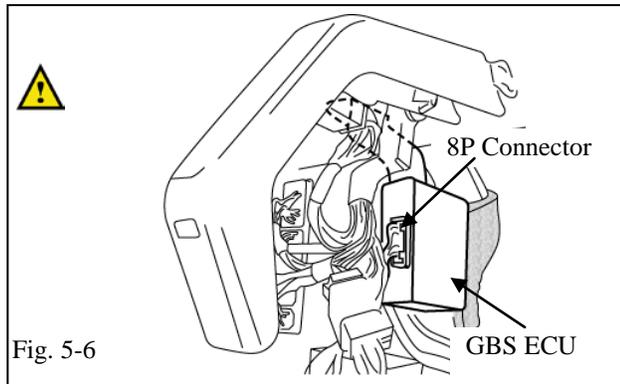(g) Locate the Vehicle's White 8P Connector near the Driver's Side J/B Area. (Fig. 5-5)

(1) Remove the Tape securing the Connector.

(h) Connect the Vehicle Harness's White 8P Connector to the GBS ECU. (Fig. 5-6)

**NOTE:** Verify that Connector is securely connected.

6. Registration Preparation

(a) Complete the reassembly of the vehicle.

STOP (1) Reconnect any disconnected connectors.

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

STOP (3) Verify Foot Well Lamp is secured into Lower Finish Panel.

Install Short Pin

Fig. 6-1

(b) Install the Short Pin (Fig. 6-1)

Negative Battery Cable
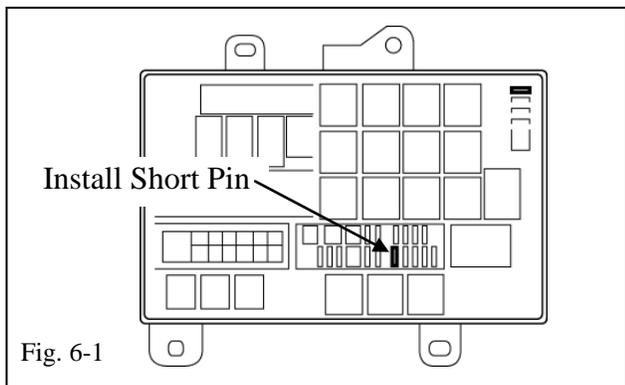
Fig. 6-2

(c) Temporarily reconnect the Negative Battery Terminal. (Fig. 6-2)
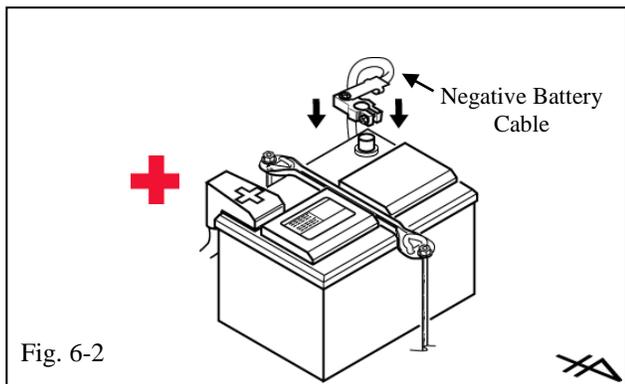
➕ DO NOT TOUCH THE POSITIVE BATTERY TERMINAL.

Fig. 7-1

Fig. 7-2

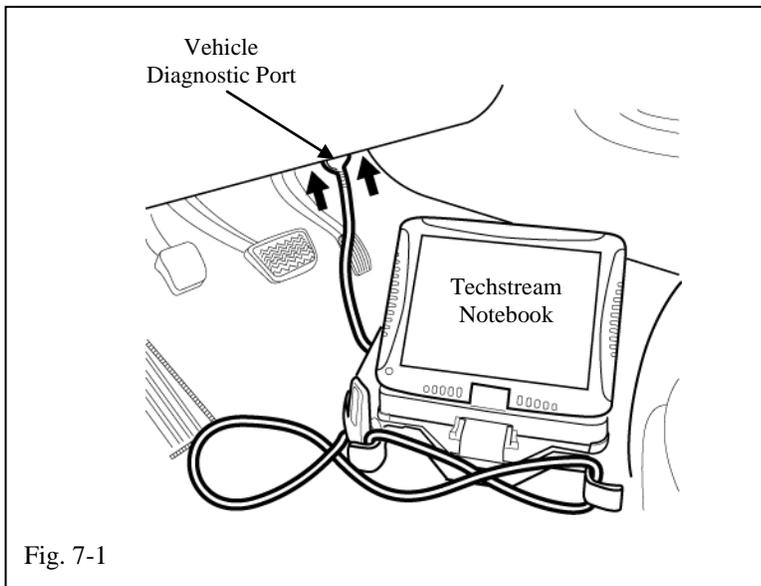
Fig. 7-3

7. Registration w/Techstream Notebook.

  (a) Connect the Techstream Notebook to the Vehicle's Diagnostic Port. (Fig. 7-1)

  (b) Start the TIS Techstream Application by clicking on the shortcut located on the Desktop.

  (c) Use the Vehicle Key to turn the Vehicle's Ignition Switch to "ON."
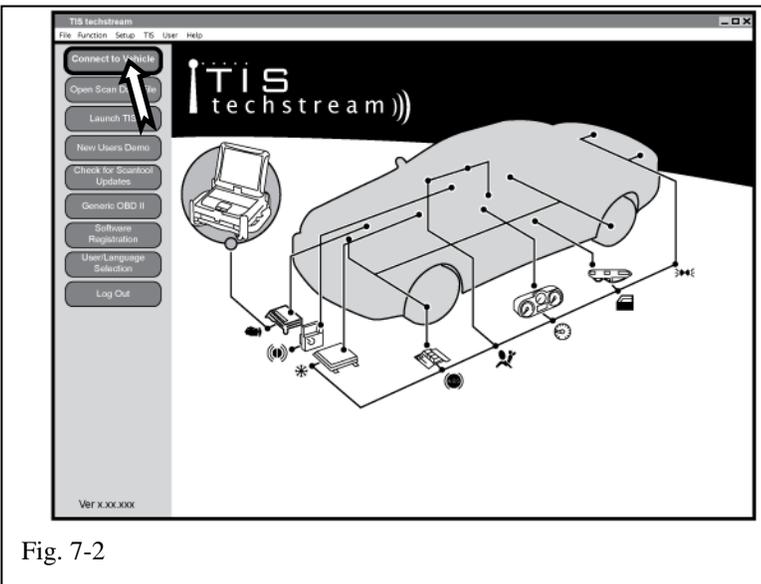
  (d) Click "Connect to Vehicle." (Fig. 7-2)

  (e) Confirm that the information displayed on the Vehicle Connection Wizard is correct for the vehicle. If not verify that the Techstream is properly connected.
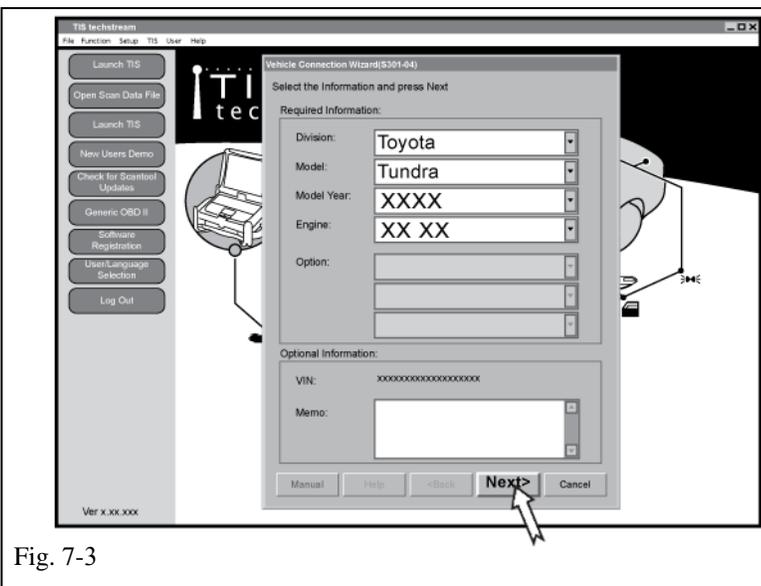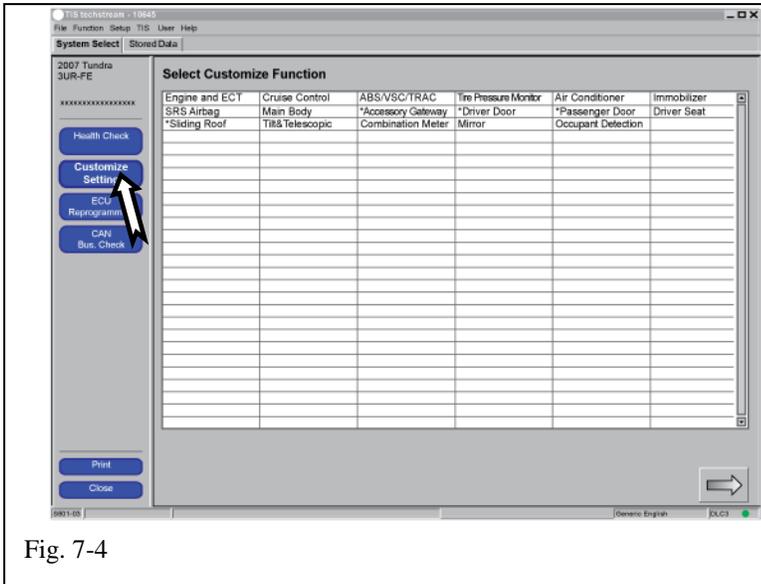(Fig. 7-3)

  (f) Click "Next>." (Fig. 7-3)

Fig. 7-4

(g) Click "Customize Setting." (Fig. 7-4)

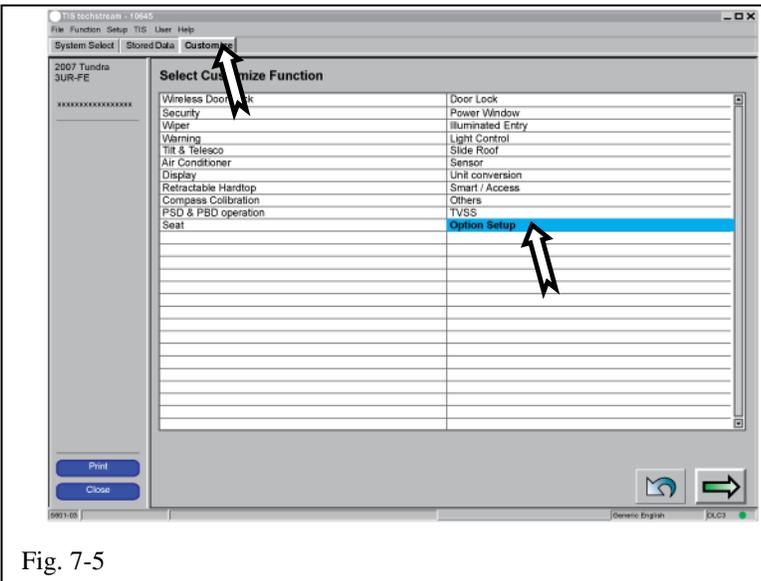Fig. 7-5

(h) Make sure that the "Customize" tab is selected. (Fig. 7-5)

(i) Select "Option Setup." (Fig. 7-5)
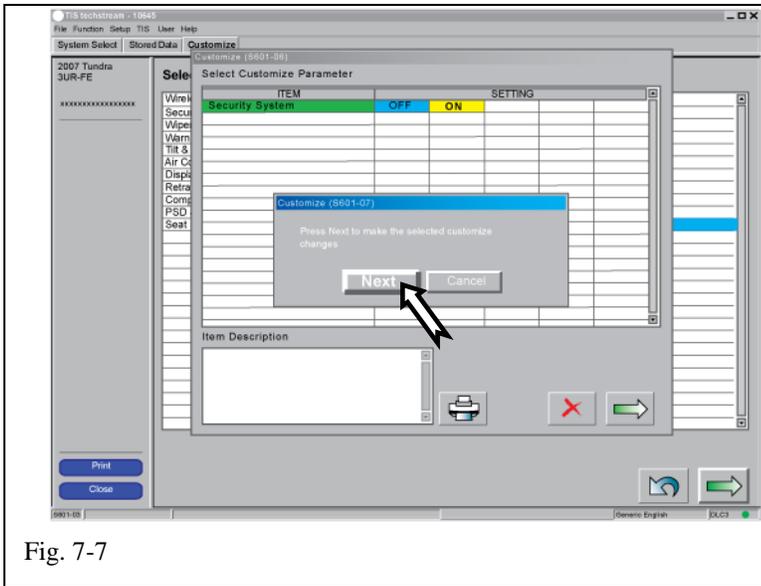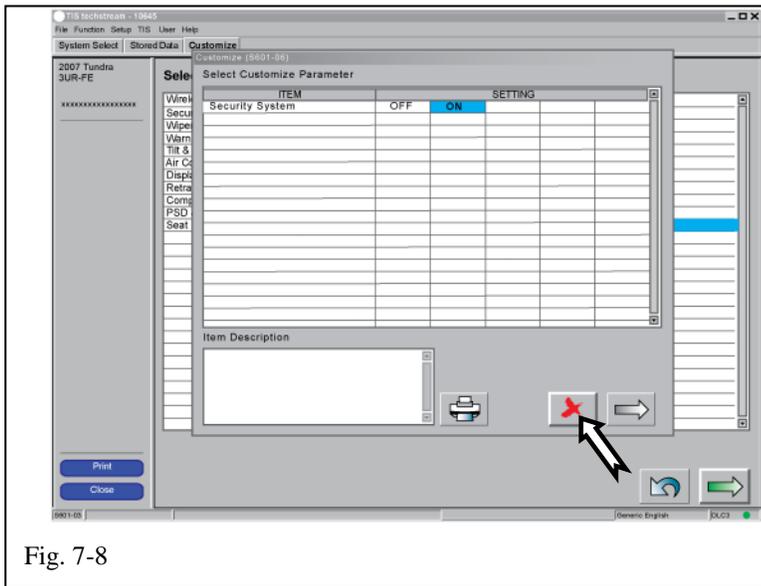
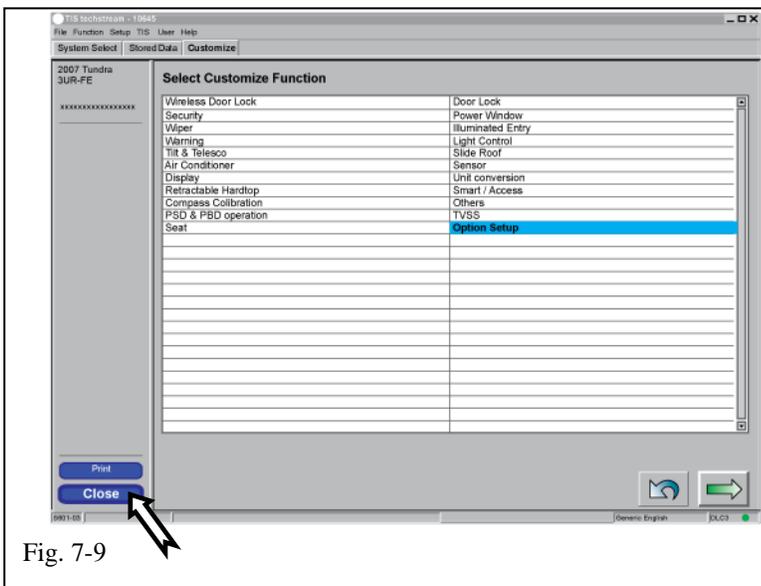(j) Click [arrow] (Fig. 7-5)
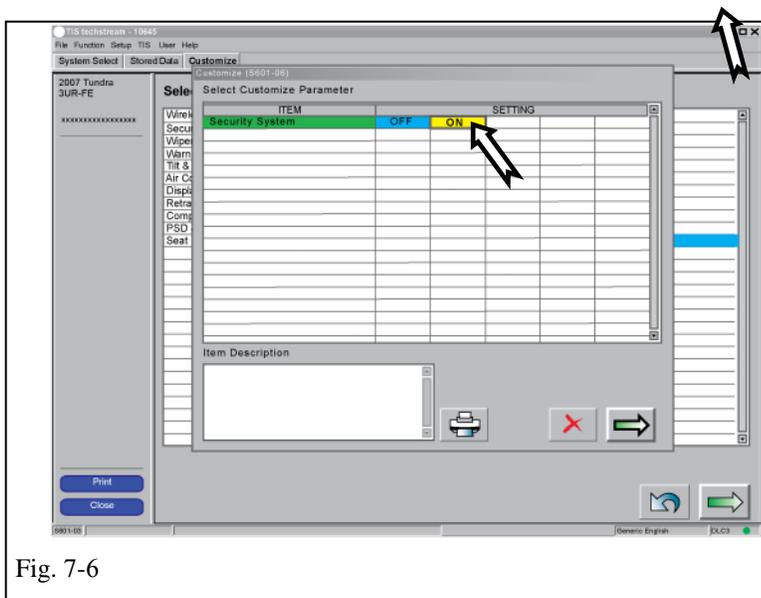
Fig. 7-6

(k) Select "ON." (Fig. 7-6)

(l) Click [arrow] (Fig 7-6)

Fig. 7-7

(m) Click "Next" to accept the changes to the Vehicle. (Fig. 7-7)

Fig. 7-8

(n) Click [X icon] (Fig. 7-8)

Fig. 7-9

⚠ **NOTE:** Click Security and verify "Warning By Horn" is active.

(o) Click "Close." (Fig. 7-9)

8. Warning Label Installation.

For US Vehicles use the English Labels and Dispose of the Spanish Labels.

For Mexico Vehicles use the Spanish Labels and Dispose of the English Labels.
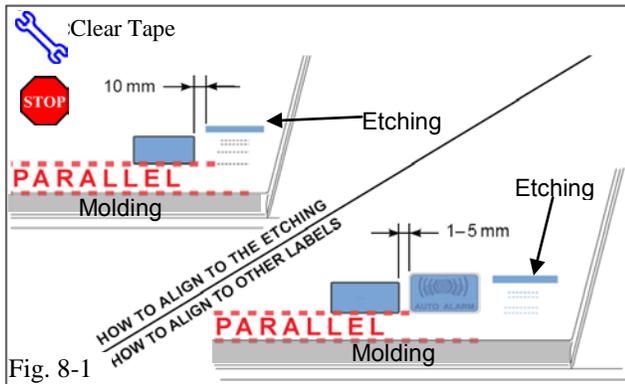
Fig. 8-1

(a) Use Household Glass Cleaner to clean the inside of the Front Door Window. (Fig. 8-1)

(b) Use a piece of Clear Tape to lift the Label from the protective backing.

CAUTION: Do not touch the adhesive surface.

(c) Attach the V5 Window Label. (Fig. 8-1)

NOTE: Make sure to Align according to Etching or Other Label. (Fig. 8-1)

REPEAT: steps a–c with the other Window.

FOR B-CAB VEHICLES ONLY (Step d)

(d) Make sure to Align Label parallel to the ground.
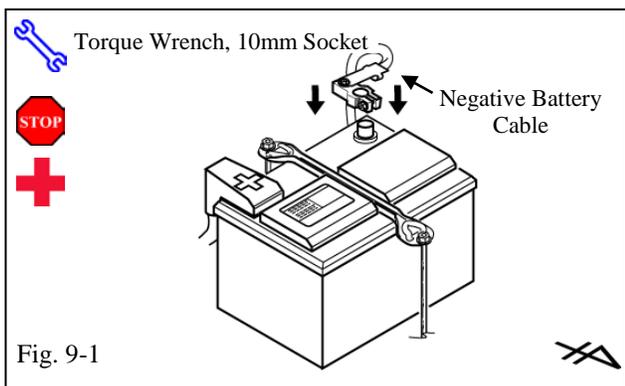
9. Complete the Installation

Fig. 9-1

(a) Position the Negative Battery Cable at the original factory position. (Fig. 9-1)

(1) Tighten the Nut to 48 in•lbf (5.4 N•m)

DO NOT TOUCH THE POSITIVE BATTERY TERMINAL.

(b) Clean up and remove any trash.

(c) Place the RS3200 PLUS Owner's Guide sealed in the bag, in the Glove Box.

(d) Discard the GBS Owner's Guide.

TOYOTA   TUNDRA   **2014** −   TVIP V5

CHECKLIST – these points **MUST** be checked to ensure a quality installation.   RS3200 PLUS

Accessory Function Checks

	Perform	Look For
1	Press and release the remote control's 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 stops 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.

	Perform	Look For
4	Arm and disarm the system with the remote again, then wait 30 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.

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

	Perform	Look For
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 stops flashing.
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.

| 19 | Press and release the remote control's lock button to start the arming process. | Refer to step 14. |
| 20 | Wait 30 seconds. | After 30 seconds, the Security LED starts flashing; the system is now armed. |

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

| 21 | 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. |
| 22 | Insert the key into the driver's door key cylinder and turn it toward the back of the vehicle to stop the alarm. | Refer to Step 14 |

NOTE: If the alarm still does not trigger during the section test, increase the GBS sensitivity to the next setting and test again.

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

Vehicle Appearance Check

	Perform	**Look For**
☐	After accessory installation and removal of protective cover(s), perform a visual inspection of the vehicle.	Ensure no damage (including scuffs and scratches) was caused during the installation process. (For PPO installations, refer to TMS Accessory Quality Shipping Standard.)

Vehicle Function Checks

Function	Function

Enter the Vehicle

	Function		Function
☐	Dome/Courtesy Lights	☐	Steering Wheel Column Adjusts Without Interference
☐	Horn	☐	Hood Latch Release

Start the Vehicle

	Function		Function
☐	Starter	☐	Gauges
☐	Check Engine Light *If the warning light remains on, it may indicate a system malfunction.*	☐	ABS Light (if equipped) *If the warning light remains on, it may indicate a system malfunction.*
☐	Lamp Failure Sensor *If the warning light remains on, it may indicate a system malfunction.*	☐	Track/Skid Control Light (if equipped) *If the warning light remains on, it may indicate a system malfunction.*
☐	Seat Belt Warning Light *If the warning light remains on, it may indicate a system malfunction.*	☐	Tire Pressure Monitoring System (TPMS) *Prior to TPMS activation and Pre-delivery Service (PDS) of the Vehicle the TPMS light will blink when IG is turned on.* *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.*
☐	Air Bag Warning Light *If the warning light remains on, it may indicate a system malfunction.*		
☐	Cruise Control Light (if equipped)		

Using a Mirror or Assistant check the following.

	Function		Function
☐	Trunk/Tailgate/Bed Lights (if equipped)	☐	Tail Lights
☐	Brake Lights	☐	Daytime Running Lights (if equipped)
☐	Backup Lights	☐	Marker Lights
☐	Clearance Sonar (if equipped)		

Stop the Engine, Place the Vehicle's IG in the ON position.

	Function		Function
☐	Hazard Lights	☐	Turn Signal Lights
☐	Head Light	☐	Fog Lights (if equipped)
☐	High Beams	☐	Accessory Controls/Illumination (if equipped)
☐	Power Side Mirrors (if equipped)	☐	Convenience Memory Settings (if equipped)
☐	Power Sliding Door (if equipped)	☐	Rear Sunshade (if equipped)

	Function			Function
☐	Front Wiper/Washer		☐	Rear Wiper/Washer (if equipped)
☐	Power Sun/Moon Roof (if equipped)		☐	Rollover Side Curtain Air Bag Switch (RSCA) (if equipped)
☐	Clock (if equipped)		☐	Navigation System (if equipped)
☐	Audio/Video (if equipped)		☐	HVAC
☐	Steering Wheel Audio Control (if equipped)		☐	Rear Window Defogger (if equipped)
☐	Front Windshield Defogger (if equipped)		☐	Accessory Power Socket (if equipped)
☐	Side Mirror Defogger (if equipped)		☐	Heated/Vented Seats (if equipped)
☐	Massage Seats (if equipped)			

☐	Glovebox Light (if equipped)		☐	Passenger Air Bag Switch (if equipped)

☐	Power Locks (if equipped)		☐	Power Windows (if equipped)
☐	Power Seats (if equipped)		☐	Key Sensor Buzzer

Remove the short pin after Function check.
Check with your Port/Dealer to see if this step is necessary.

Store Short Pin Here