Part Number: PT398-08151

Conflicts

Do not install into Vehicles with Factory Alarm System.

Recommended Sequence of Application

Item#	Quantity	Description

Kit Contents

Item#	Quantity	Description
1	1	GBS ECU 08190-0C820
2	1	V5 Wire Harness
3	1	Jumper Connector

Hardware Bag Contents

Item#	Quantity	Description
1	1	GBS ECU Bracket
2	3	Foam Tape
3	15	Wire Ties
4	1	GBS Microphone 08192-6C810
5	1	M6 Bolt 91651-60618
6	2	V5 Window Label English 00107-VIPWS
7	2	V5 Window Label Spanish PT398-48142-AA
8	2	V2 Window Label English (Discard) 08192-009A0
9	2	V2 Window Label Spanish (Discard) PT398-42091
10	1	V2 Owner's Guide (Discard)
11	1	V5 Owner's Guide

Additional Items Required For Installation

Item#	Quantity	Description

Recommended Tools

Personal & Vehicle Protection	Description
Safety Glasses	
Safety Gloves	(Optional)
Blankets, Parts Boxes	
Special Tools	
Striker Tool (for UV Windows)	CAD-E IADS P/N ALL 02-016-01
Striker Tool (for Acoustic Windows)	CAD-E IADS P/N LS 18-0004
Installation Tools	
Screwdriver	#2 Phillips, Flat Blade Jeweler's
Nylon Panel Removal Tool	e.g. Panel Pry Tool #1 Toyota SST# 00002-06001-01
Side Cutters	
Torque Wrench	Battery: 48 in•lbf (5.4 N•m)
Tape	Electrical, Clear
Utility Knife	
Socket	10mm, extension
Special Chemicals	
Cleaner	VDC Approved 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 AND 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.

WIRE TIE LOCATION: Wire Tie location number.

Accessory Installation Practice (read before installation)

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, checking torque procedure, etc.)
- Vehicle Disassembly/Reassembly (panel removal, part storage, etc.)
- Electrical Component Disassembly/Reassembly (battery disconnection, connector removal, etc.)

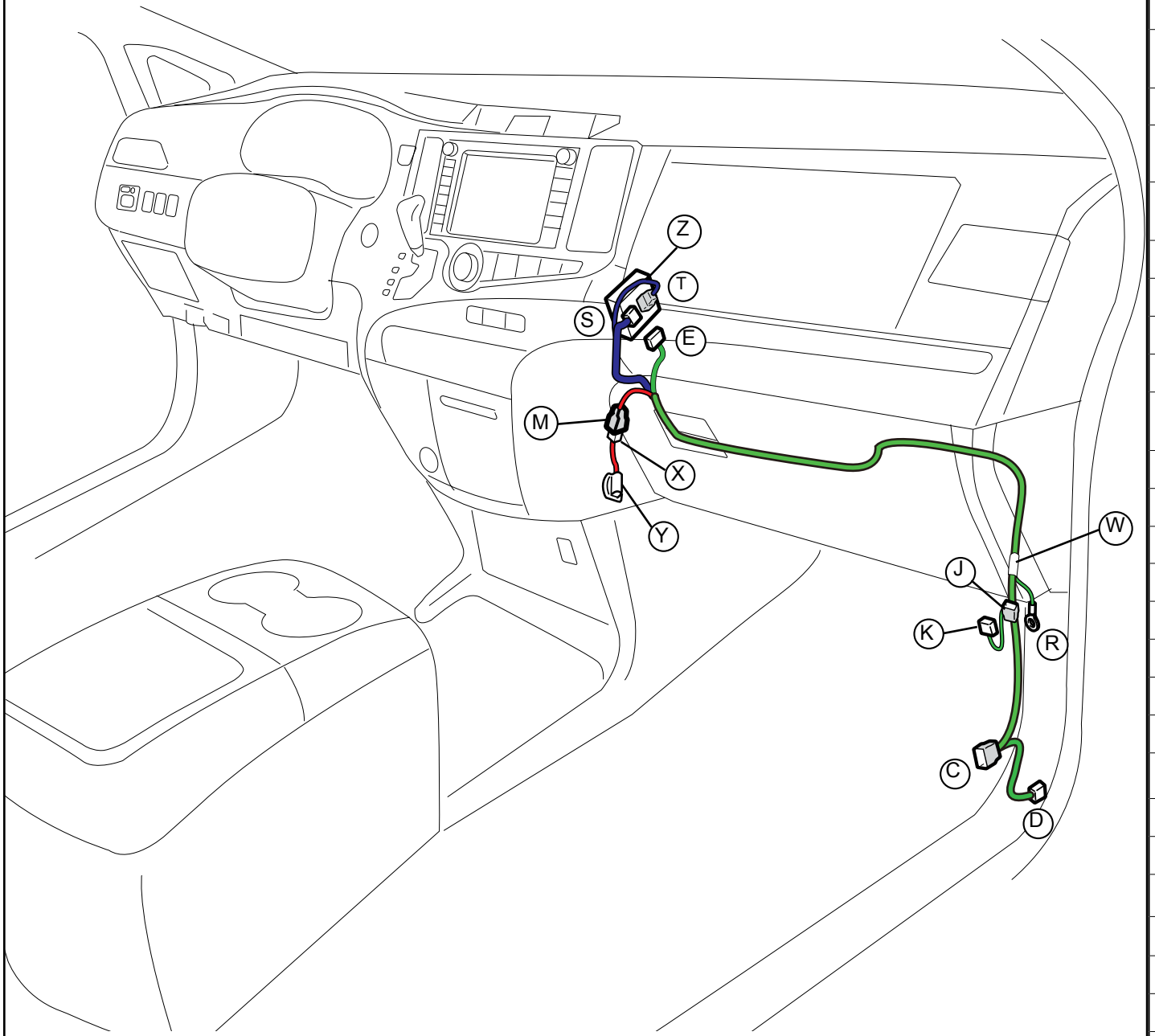
Please see your Toyota dealer for a copy of this document.

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Sienna RS3200 Plus

Wire Harness Outline*



*Color of Harness on Overview corresponds with Colored Tape near Connectors on Harness.

TVIP	Vehicle	Description
C	-	12P Black
D	-	12P Black
E	-	8P White *(for GBS ECU)*
J	-	5P White
K	-	5P White *(for V5/V4 Add-on)*
M	-	2P White *(for GBS Mic)*
R	-	Ground Terminal
S	-	8P White
T	-	8P Black
W	-	White Tape Marker
X	-	2P White (*GBS Mic)*
Y	-	GBS Microphone
Z	-	GBS ECU

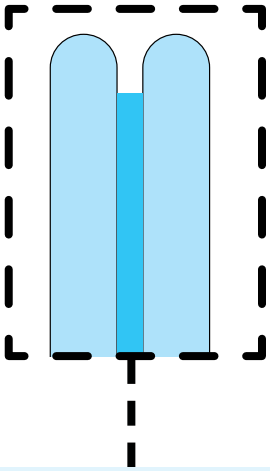
CAUTION: There are two Sensitivity Value for the GBS ECU.

You must first determine which Glass your vehicle has.

Perform the Following.

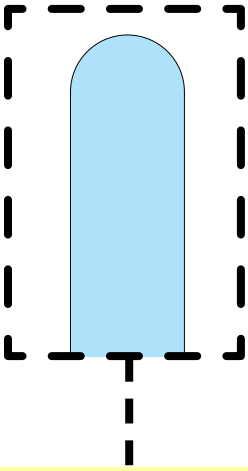
a. Roll down the Front door Window partway.
b. Look at the edge of the window.





THIS VEHICLE HAS ACOUSTIC WINDOWS

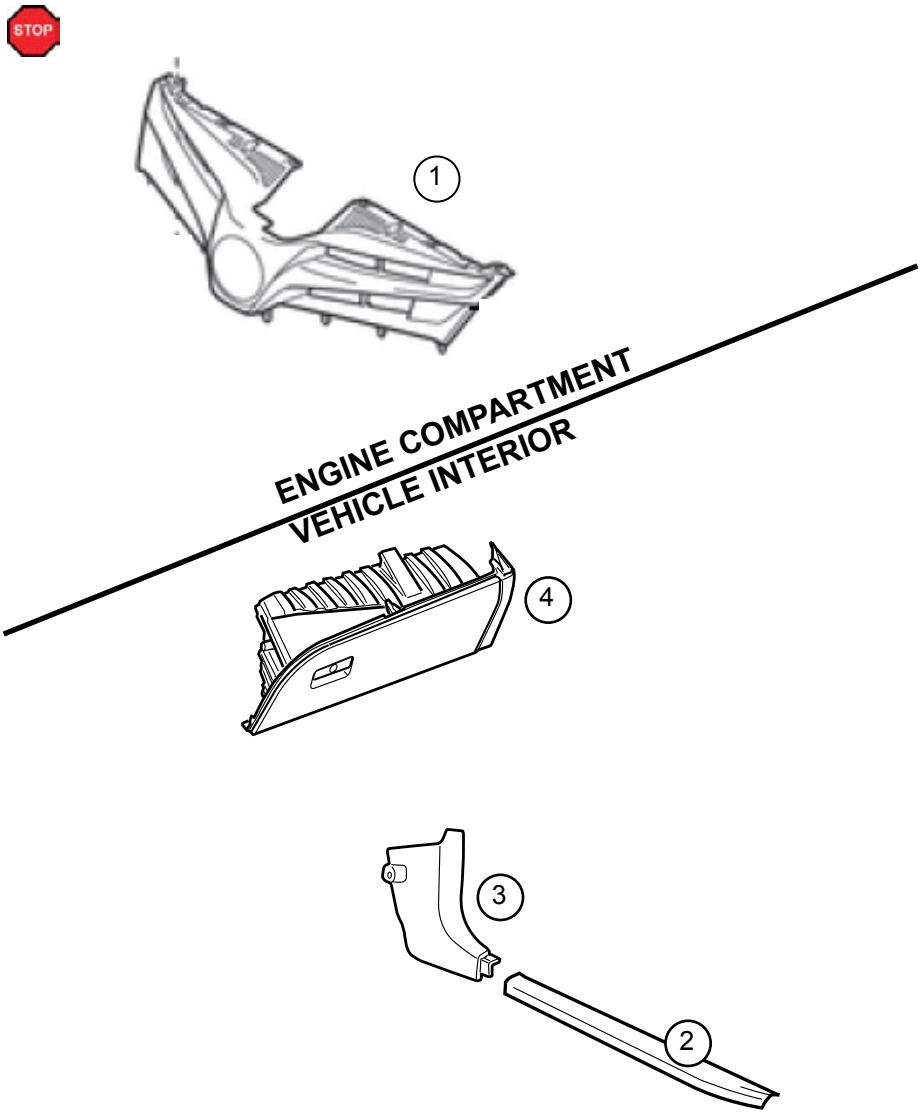
You will need to use sections highlighted in BLUE for this Vehicle.



THIS VEHICLE HAS UV WINDOWS

You will need to use sections highlighted in YELLOW for this Vehicle.

Disassembly Overview



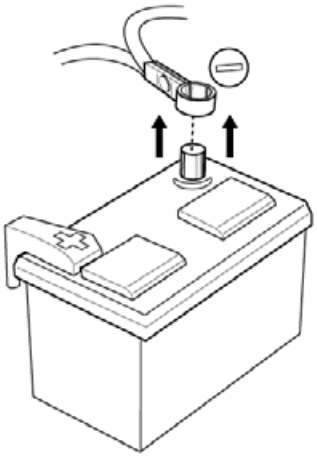
1	Radiator Grille Sub-Assembly
2	PS Step Cover
3	PS Cowl Cover
4	Glove Box

Disconnect all Corresponding Connectors.

Re-attach Panel Clips that fall off during disassembly.

10mm Socket

Fig. 1-1



1. Hood Switch Jumper Connector Installation.

a. Place the Vehicle in Park with the Parking Brake set.

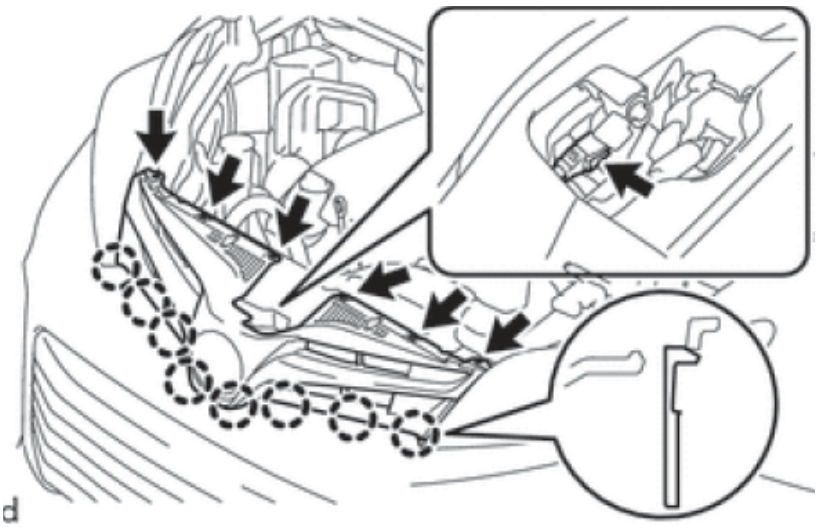
b. Disconnect the Negative Battery Terminal.

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

CAUTION: Do not touch the Positive Terminal.

Nylon Panel Removal Tool

Fig. 1-2

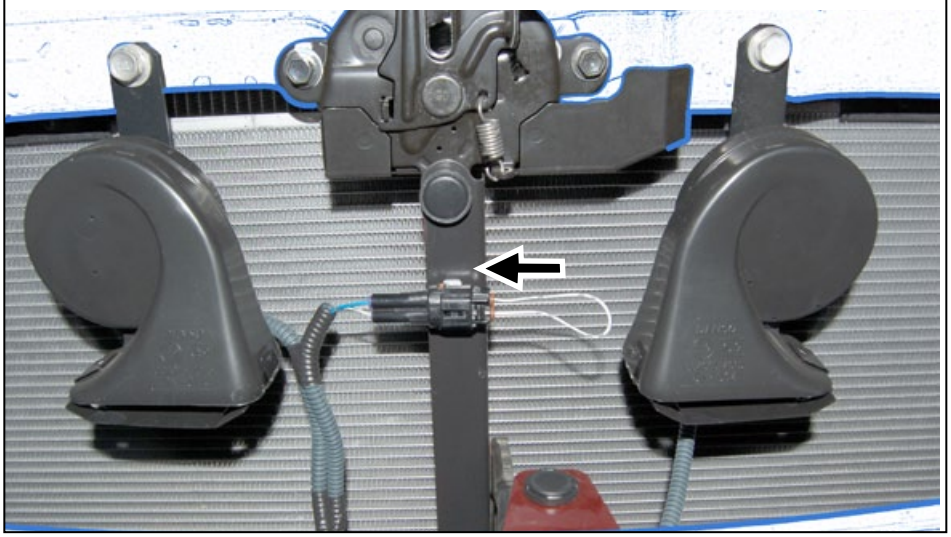


c. Remove the Radiator Grille Sub-Assembly.

- w/ Toyota Safety Sense P, disconnect the connector.
- Remove the 6 clips.
- Disengage the 8 claws and remove the radiator grille sub-assembly

NOTE: Apply Protective tape on top of Bumper.

Fig. 1-3



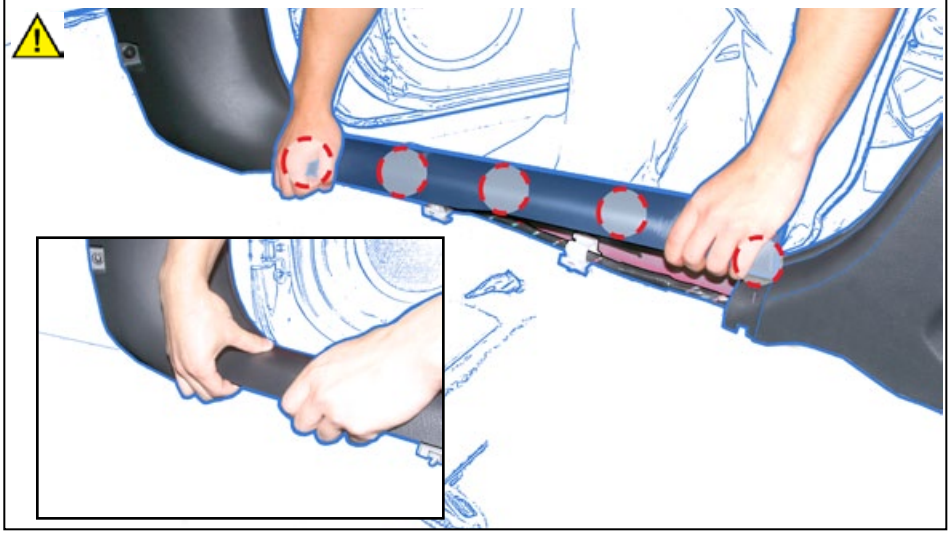
d. Install the Hood Switch Jumper Connector on the Vehicle's Hood Switch Pre-Connector and attach to Vehicle.

e. Reinstall the Front Grille Sub-Assembly.

- Engage the 8 claws to install the radiator grille sub-assembly.
- Install the 6 clips.
- w/ Toyota Safety Sense P. connect the connector.

Nylon Panel Removal Tool

Fig. 2-1



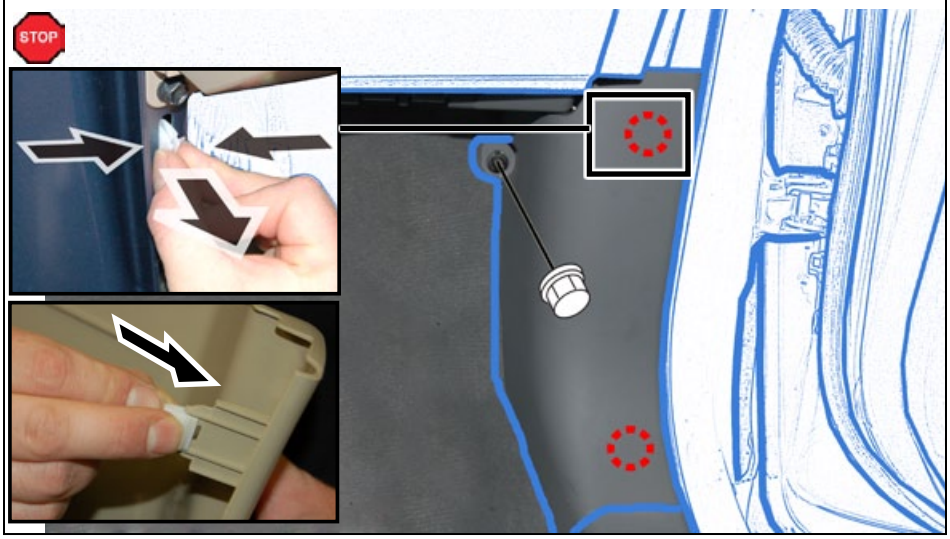
2. Disassembly.

a. Remove Passenger's Side Step Cover.

- Disengage front inner sill clip and front step plate clip.
- Disengage rear inner sill clip and rear step plate clip.
- Hold ends up keeping guide pins up and slide sill forward to disengage remaining clips.

NOTE: Make sure to follow steps above to avoid breaking the sill plate clips.

Nylon Panel Removal Tool Fig. 2-2



b. Remove Passenger's Side Cowl Cover.
   - Remove 1 Nut.

c. If the Clip stays in the vehicle remove it.
   - Carefully remove otherwise it will fall inside the vehicle.
   - Re-attach the Clip to the Cowl Cover.

10mm Socket Fig. 2-3



d. Remove 2 Bolts from the bottom of the Glovebox.

Phillips Screwdriver Fig. 2-4

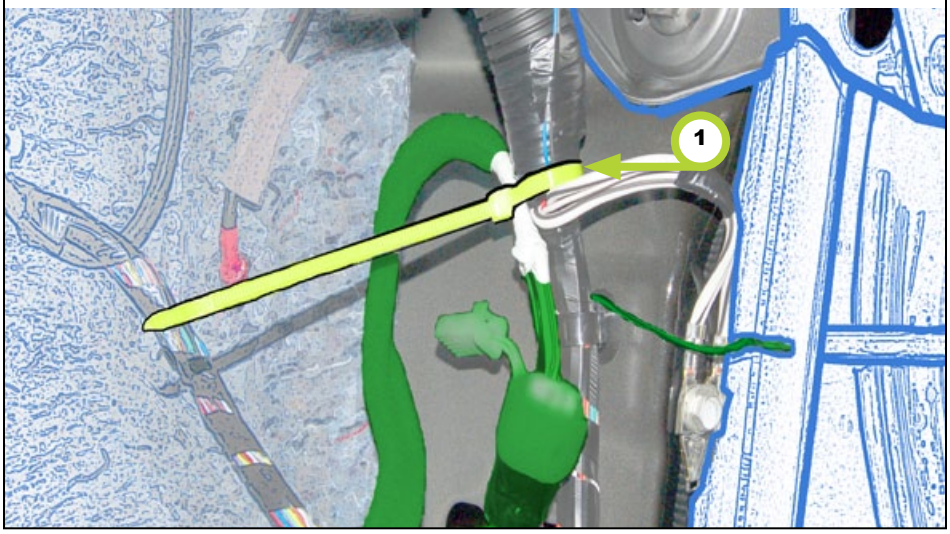


e. Open Glove box and remove 2 Screws.

f. Remove the Glove box.

Side Cutters

Fig. 3-1



10mm Socket

Fig. 3-2

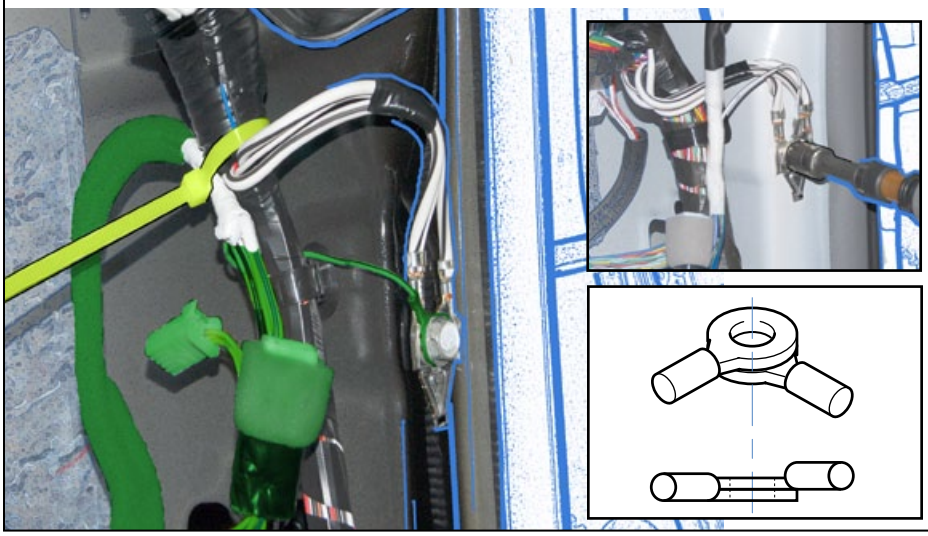
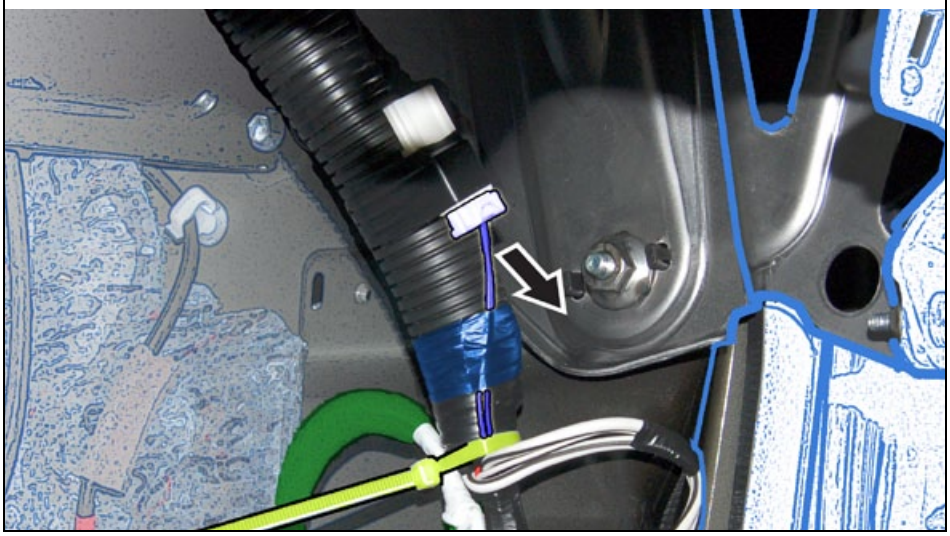


Fig. 3-3



3. V5 Harness Installation

a. Secure the V5 Harness's White Tape Marker to the Vehicle Harness with 1 Wire Tie.

b. Remove the Vehicle's Ground Terminal Bolt.
   - Use Top Ground Terminal on the PS Cowl Area.

c. Secure the V5 Ground Terminal to the Vehicle using the same Bolt.

d. Locate the Vehicle's 5P Pre-Connector.

e. Remove the Tape securing the Pre-Connector wire.

f. Disconnect the Vehicle's 5P Pre-Connector.

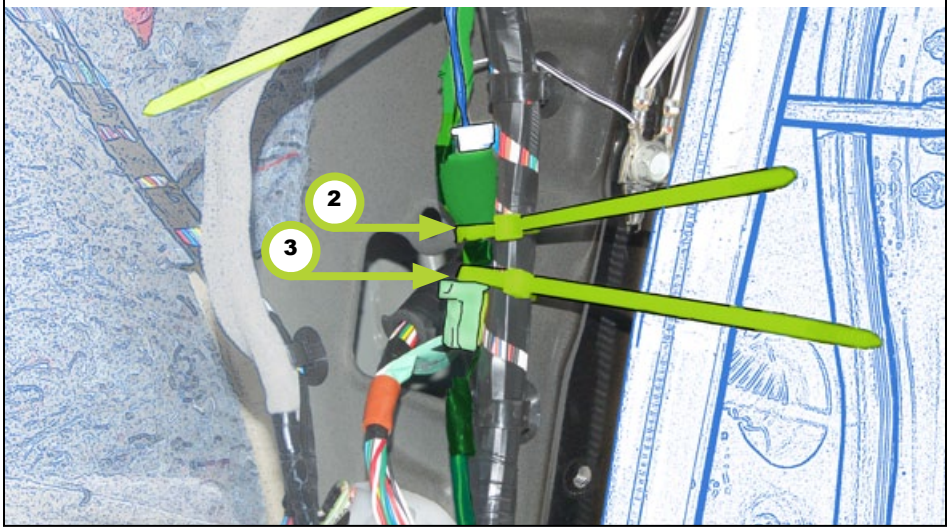
Fig. 3-4



g. Connect the Vehicle's 5P Pre-Connector to the V5 5P Connector.

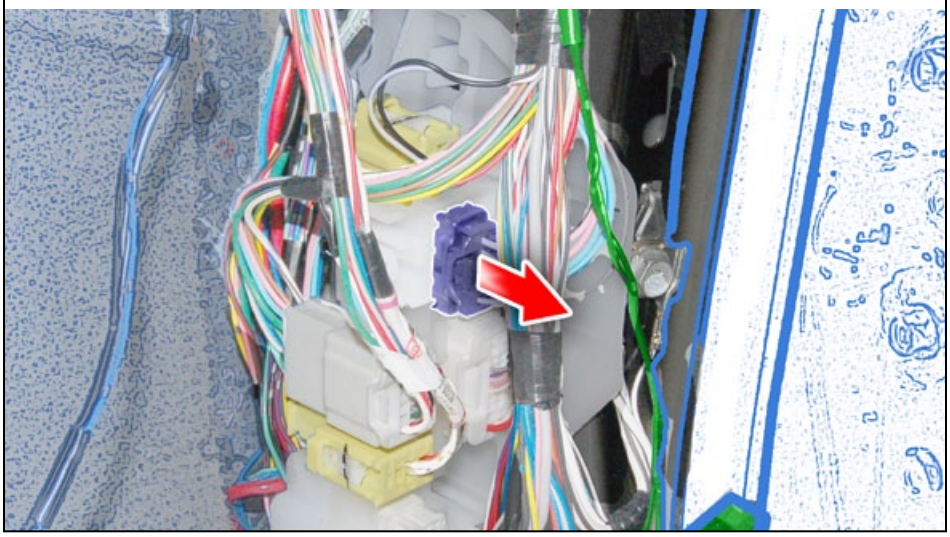
Side Cutters

Fig. 3-5



h. Using 2 Wire Ties, secure the V5 Harness and the 5P Connectors to the Vehicle Harness.

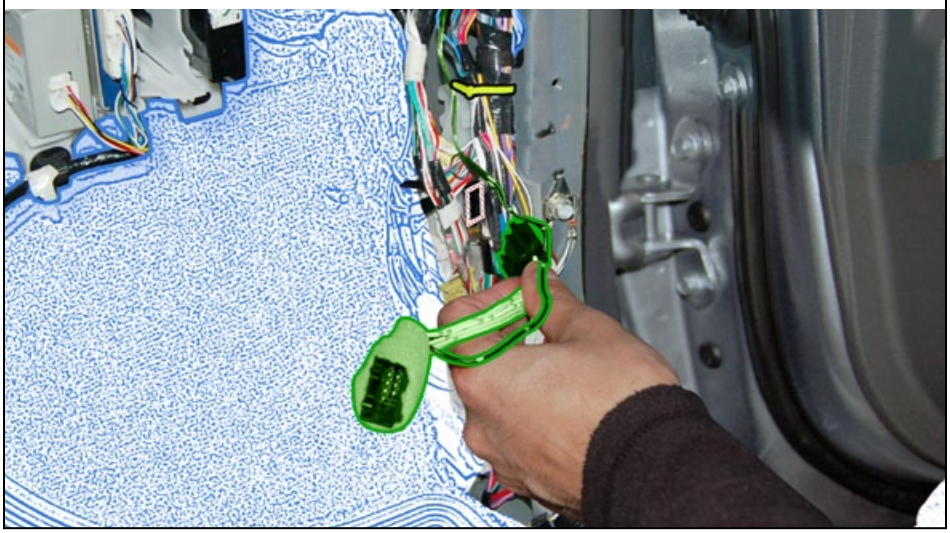
Fig. 3-6



i. Disconnect the Vehicle's Black 12P Connector from the Passenger's Side Cowl Area.

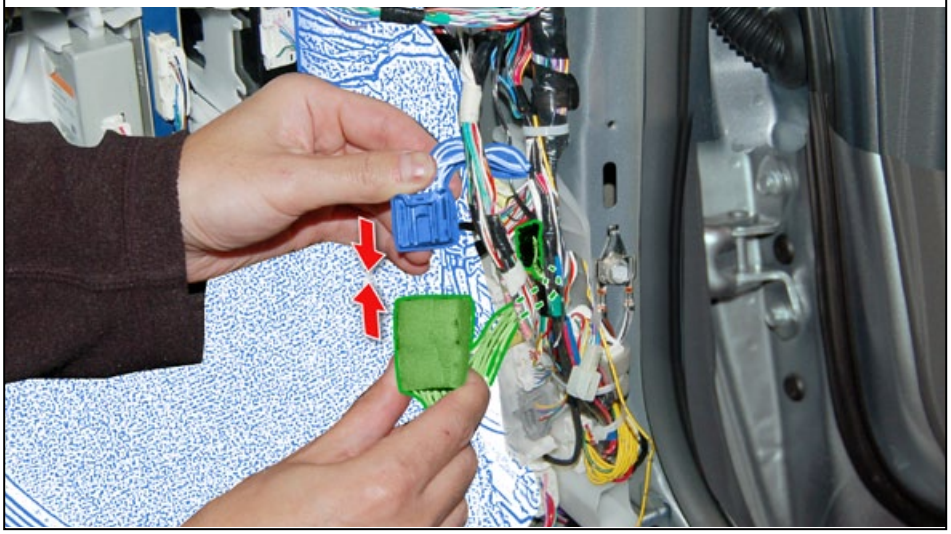
- Ensure that Connector Lock is fully released prior to pulling on Connector.

Fig. 3-7



j. Connect the V5 Black 12P Connector to the Vehicle's Connector Block.

Fig. 3-8

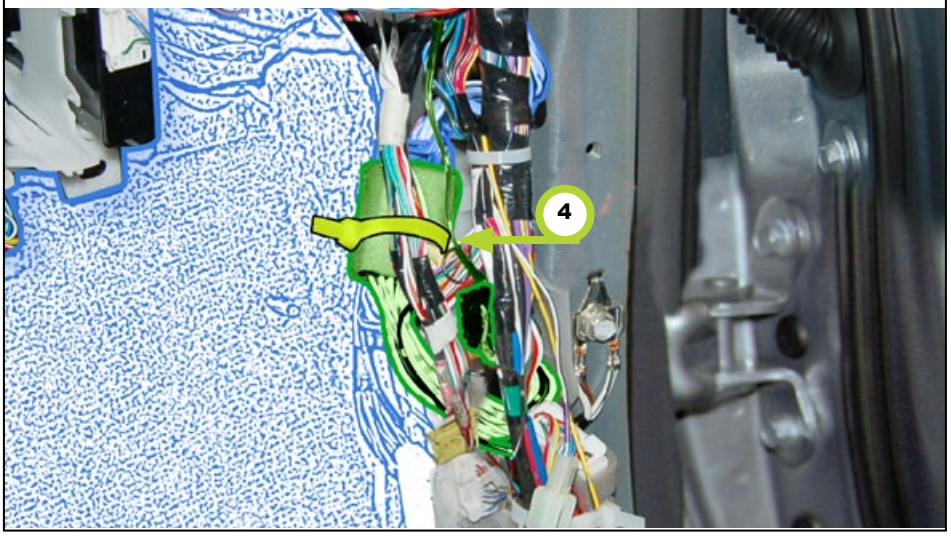


k. Connect the Vehicle's Black 12P Connector to the V5 12P Connector.

- Ensure the Connectors are routed behind the Vehicle harness branch.

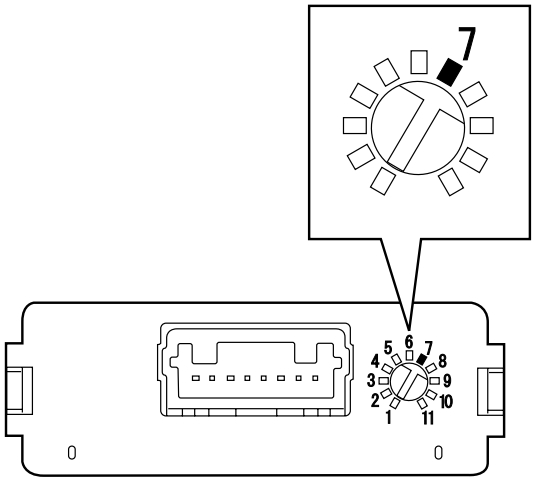
Side Cutters

Fig. 3-9

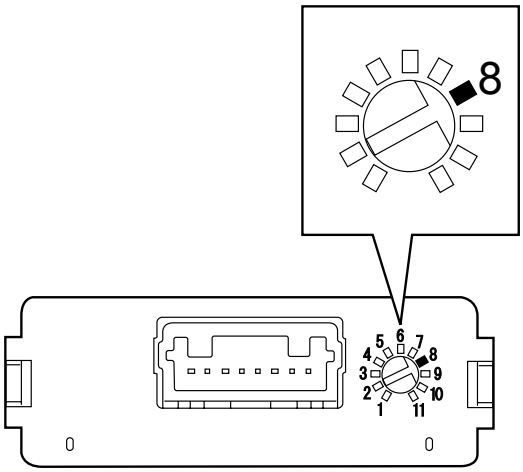


l. Secure the 12P Connectors to the Vehicle Harness with 1 Wire Tie.

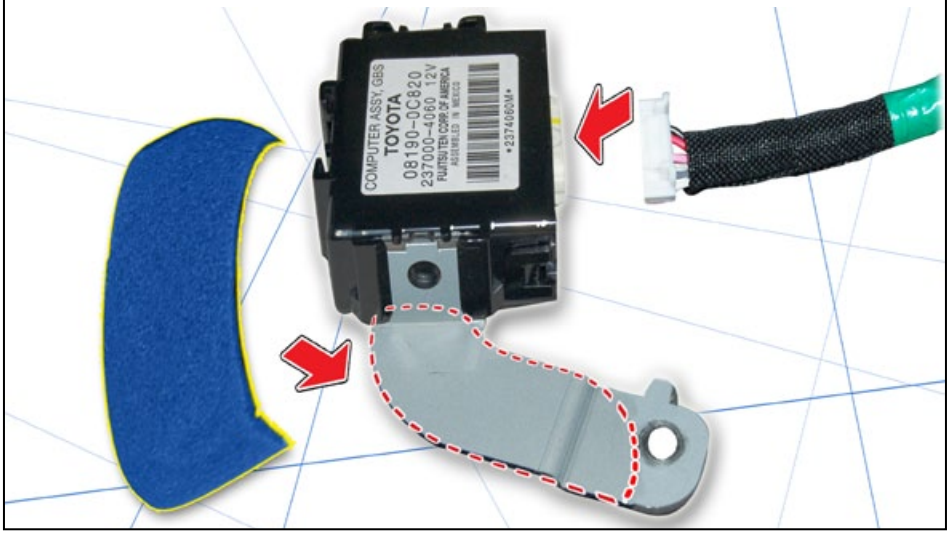
Flat blade Jeweler's Screwdriver Fig. 4-1



Flat blade Jeweler's Screwdriver Fig. 4-2



Utility Knife Fig. 4-3



4. GBS ECU Preparation.

Vehicles with UV Windows ONLY

a. Set the GBS Sensitivity Value to "7."

Vehicles with Acoustic Windows ONLY

b. Set the GBS Sensitivity Value to "8."

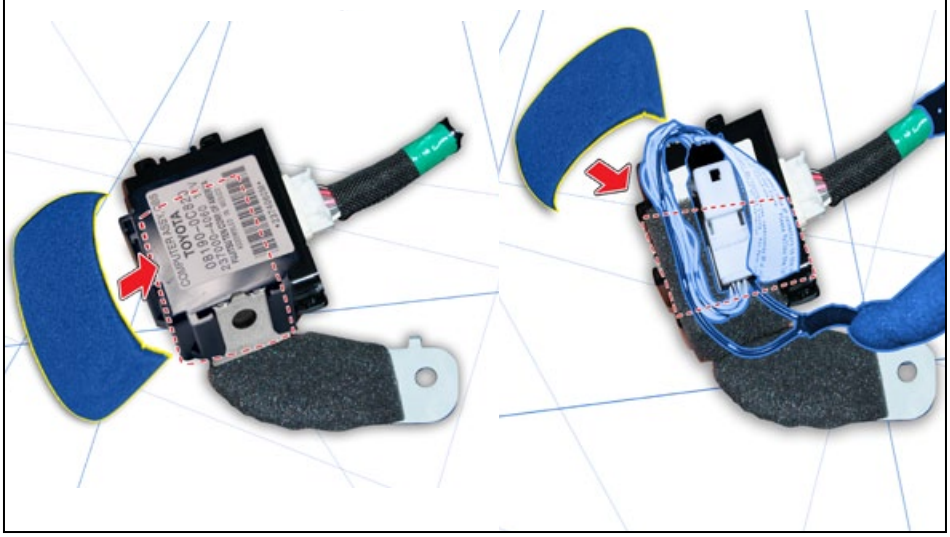
c. Attach GBS Bracket to the GBS ECU.

d. Attach 1/2 Piece of Foam Tape to the Bracket.

e. Plug the V5 White 8P Connector to the GBS ECU.

Utility Knife

Fig. 4-4



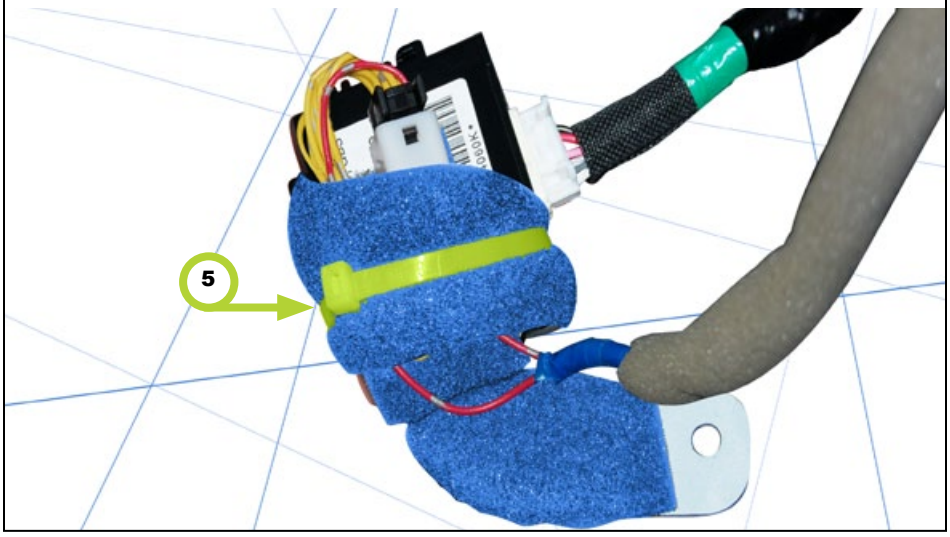
f. Attach 1/2 Piece of Foam Tape to the GBS ECU.

g. Place 8P connectors on top of the Foam Tape.

h. Attach 1/2 Piece of Foam Tape over the 8P Connectors.

Side Cutters

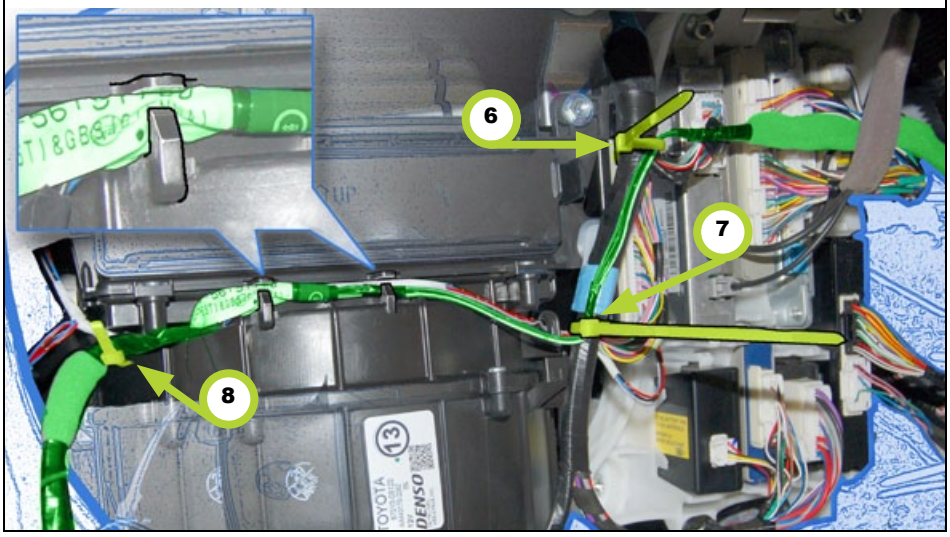
Fig. 4-5



i. Secure the 8P Connectors to the GBS ECU using 1 Wire Tie.

Side Cutters

Fig. 5-1



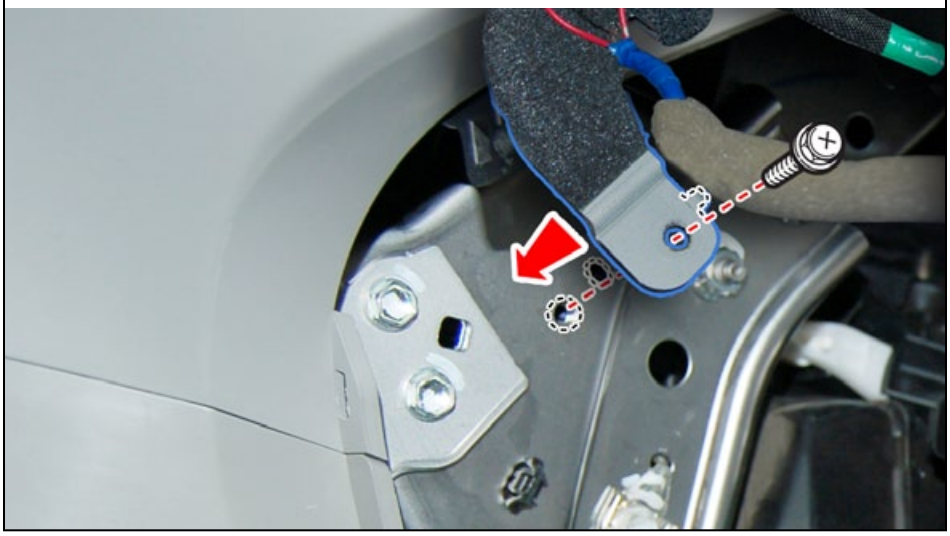
5. V5 Harness Installation (Continued)

a. Route the V5 Harness across the Glove box area and secure to the Vehicle Harness using 2 Wire Ties.

b. Secure the V5 Harness using the HVAC Wire Clamps.

c. Secure V5 Harness to the Vehicle's Harness with 1 Wire Tie.

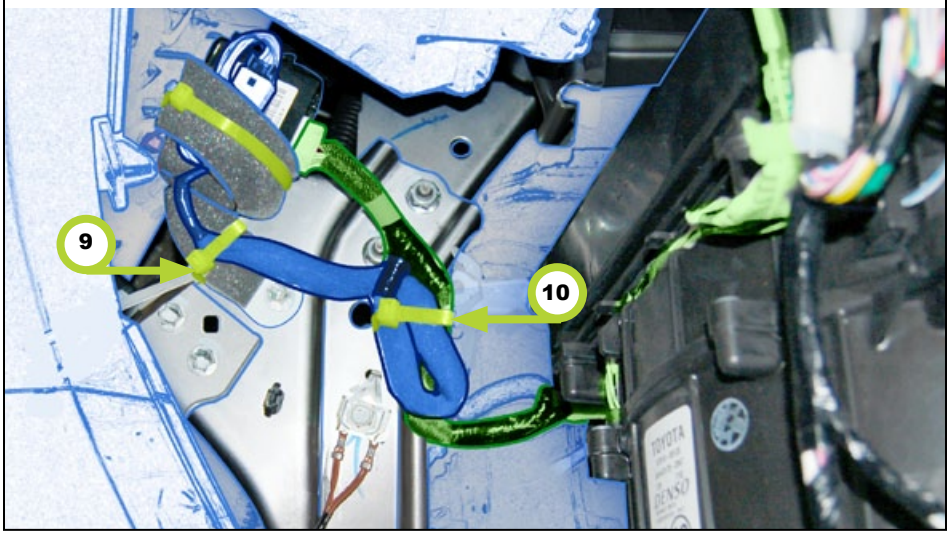
10mm Socket Fig. 5-2



d. Install the GBS ECU using the supplied Bolt.

NOTE: Make sure the Guide Pin is seated correctly.

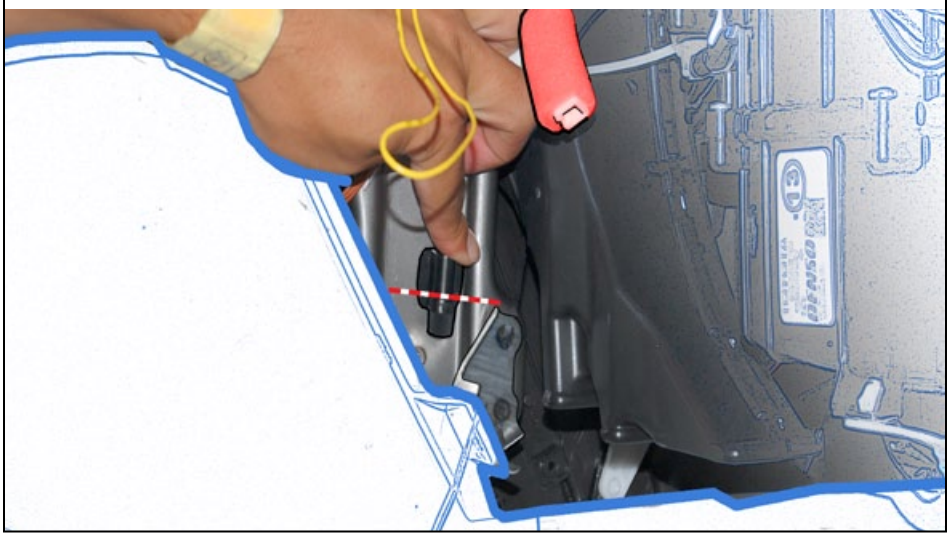
Side Cutters Fig. 5-3



e. Secure the V5 Harness to the GBS ECU's Bracket using 1 Wire Tie.

f. Secure the excess V5 Harness to the Vehicle Brace using 1 Wire Tie.

Fig. 6-1



6. GBS Microphone Installation.

a. Using VDC approved Cleaner and Cleaning Method, clean the area indicated on the Vehicle Brace.

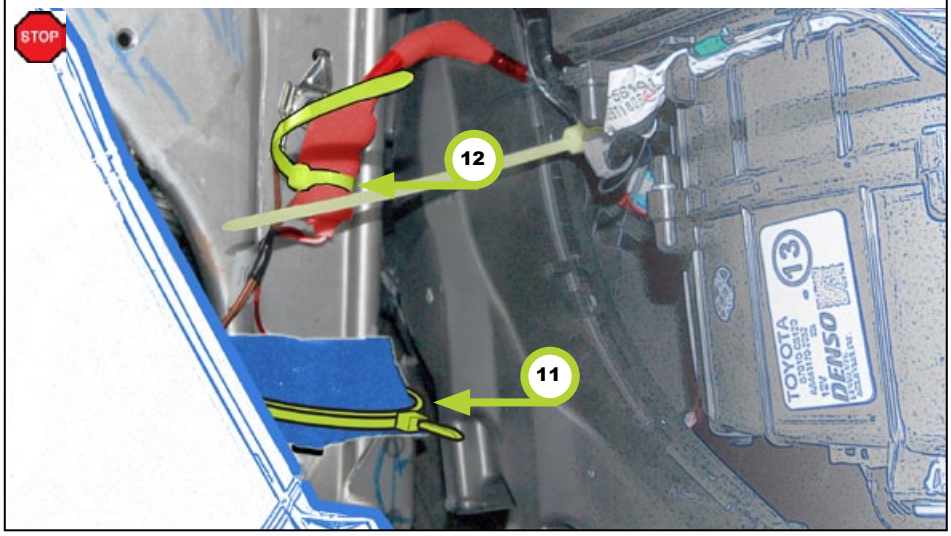
b. Remove the Protective backing from the GBS Microphone.

CAUTION: Do not touch the Adhesive surface.

c. Attach the GBS Mic to the Vehicle Brace.

NOTE: Align GBS Mic to the Vehicle Bracket.

Side Cutters Fig. 6-2

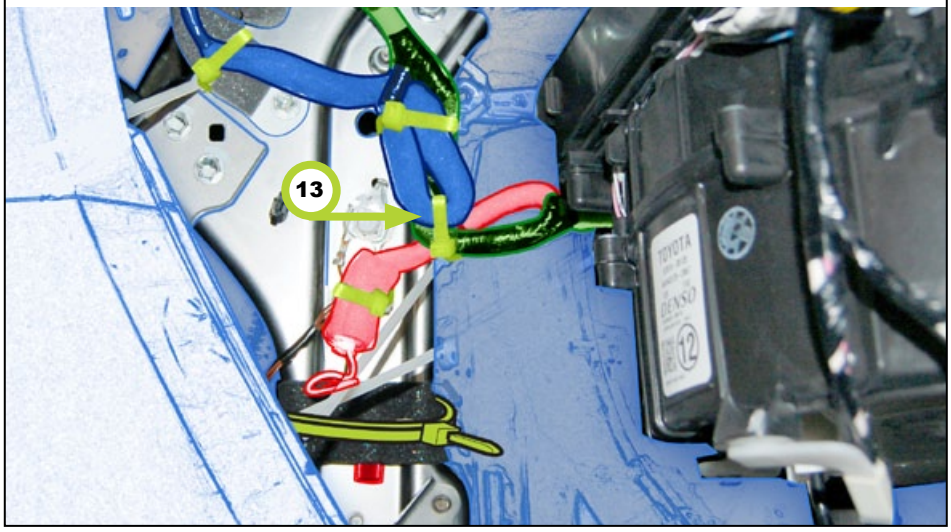


d. Attach 1 Foam Tape to the GBS Microphone and secure with 1 Wire Tie.

CAUTION: Do not cover the GBS Microphone opening with the Foam Tape.

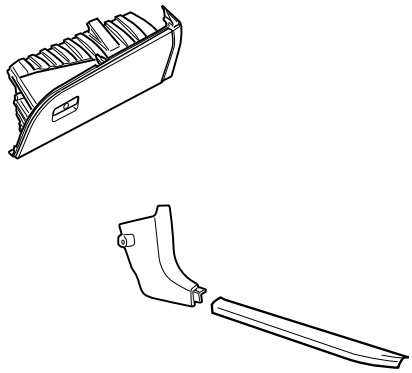
e. Plug the 2P Connectors and secure to the Vehicle Ground Wire with 1 Wire Tie.

Side Cutters Fig. 6-3



f. Secure the V5 Harnesses together using 1 Wire Tie.

Phillips Screwdriver, 10mm Socket Fig. 7-1



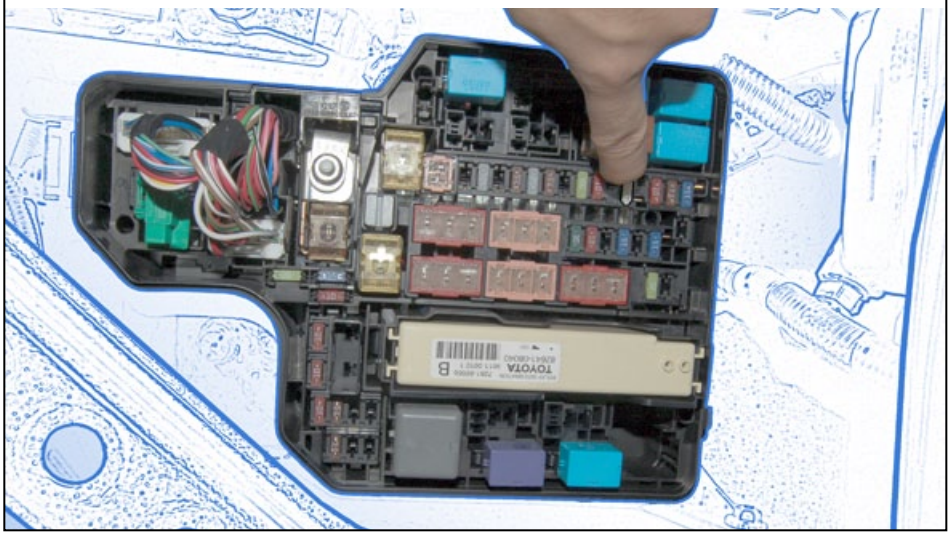
7. Registration Preparation.

a. Reassemble the Vehicle.

NOTE: Make sure that all Connectors are reconnected.

NOTE: Verify that panels fit together properly, with no uneven gaps.

Fig. 7-2



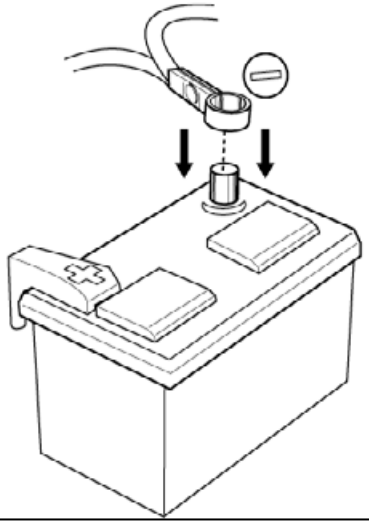
b. Verify that the Short Pin is installed.
   - If not install now.

8. Registration.

a. Temporarily reconnect the Negative Battery Cable.

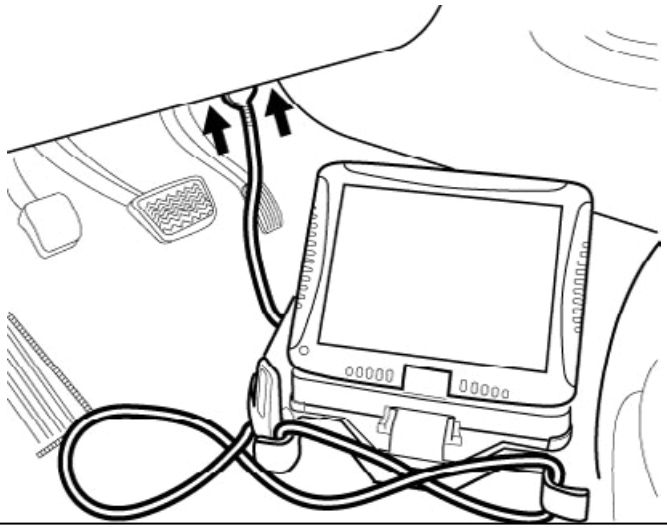
CAUTION: Do not touch the Positive Terminal.

Fig. 8-1



Techstream

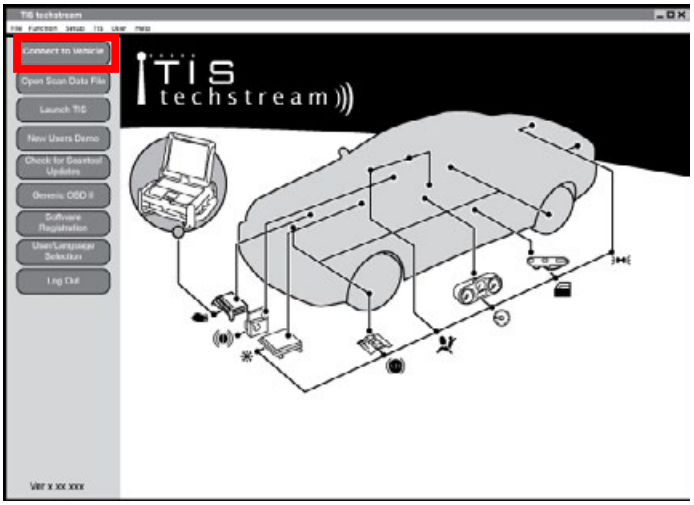
Fig. 8-2



b. Connect the Techstream Notebook to the Vehicle's Diagnostic Port.

c. Turn the Ignition Switch to "ON" position.

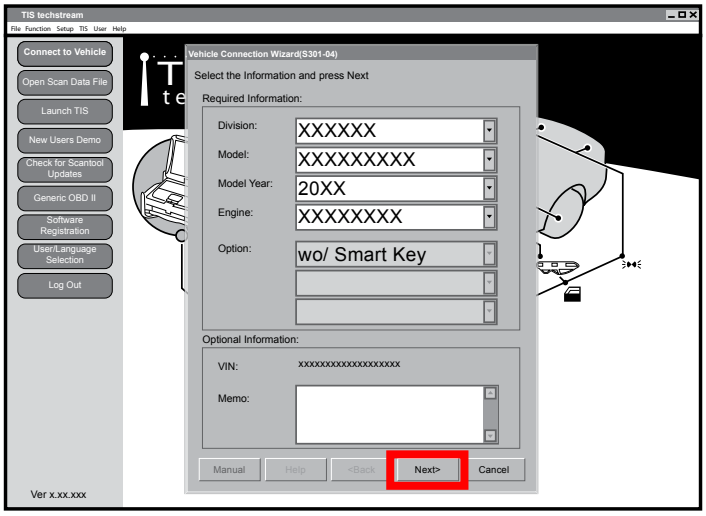
Fig. 8-3



d. Start the TIS Techstream Application by clicking on the shortcut located on the Desktop.

e. Click “Connect to Vehicle.”

Fig. 8-4

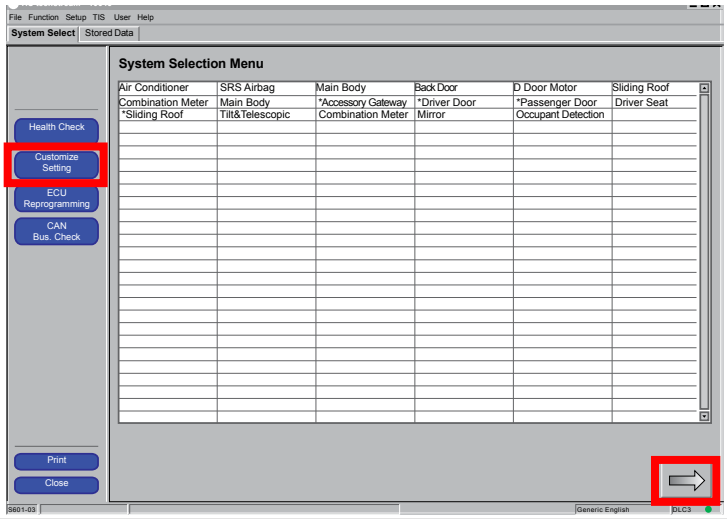


f. Confirm that the information displayed on the Vehicle Connection Wizard is correct for the vehicle. If not, verify that the Techstream is properly connected.

g. Select any additional “Option” items that are applicable to the vehicle.

h. Click “Next>.

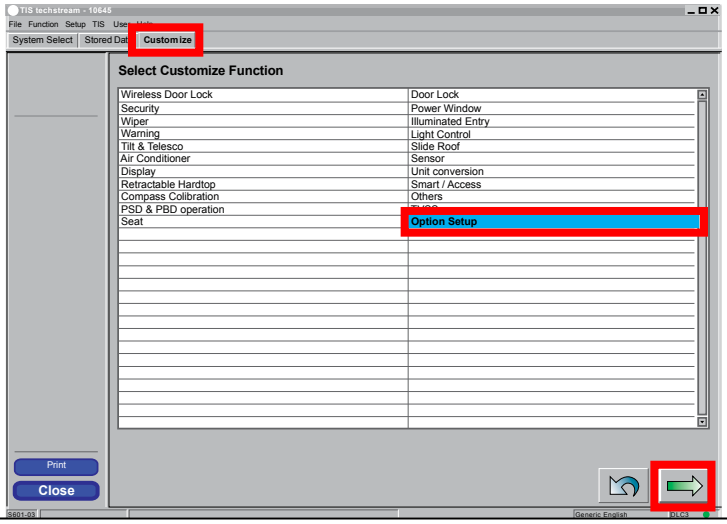
Fig. 8-5



i. Click “Customize Setting.”

j. Click .

Fig. 8-6

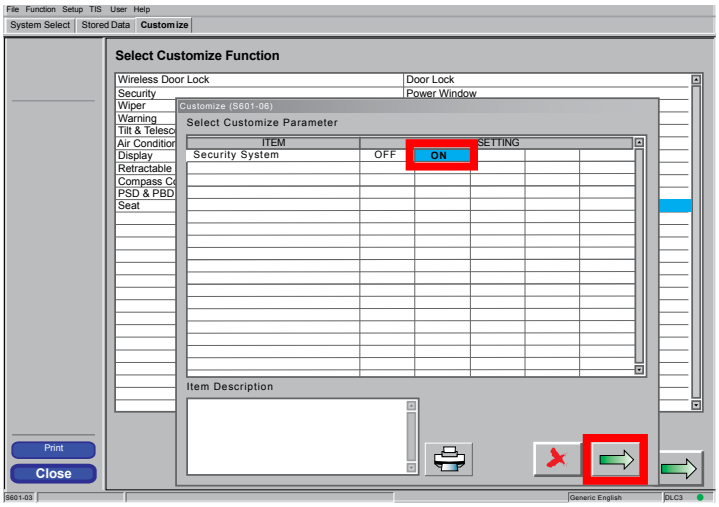


k. Make sure that the "Customize" tab is selected.

l. Select "Option Setup."

m. Click  .

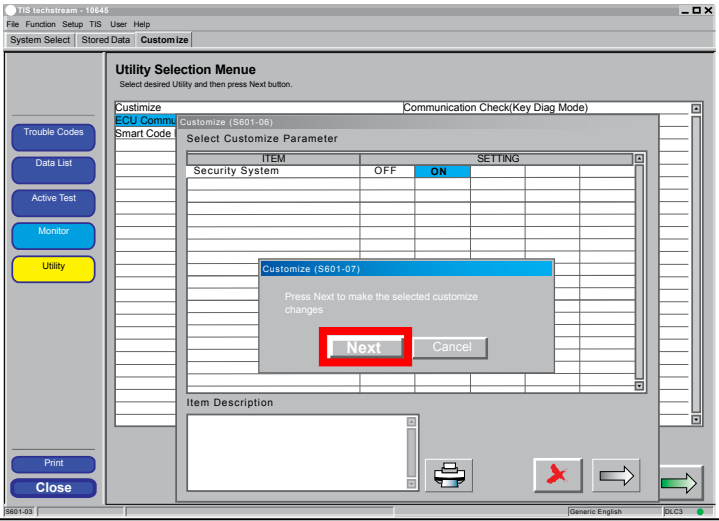
Fig. 8-7



n. Select "ON."

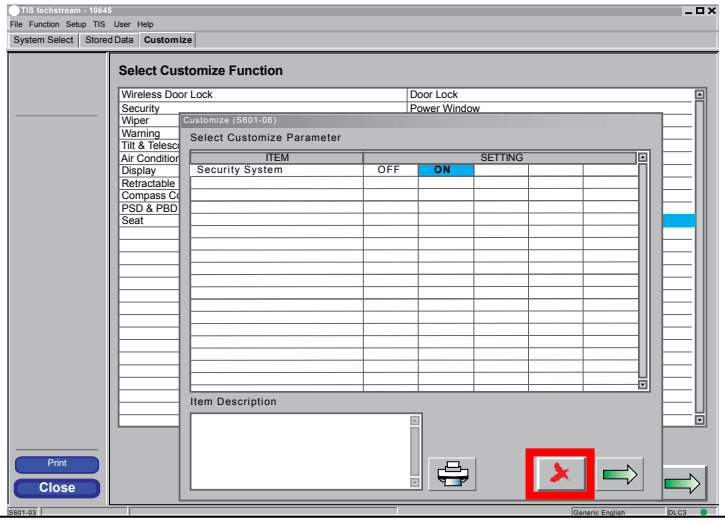
o. Click  .

Fig. 8-8



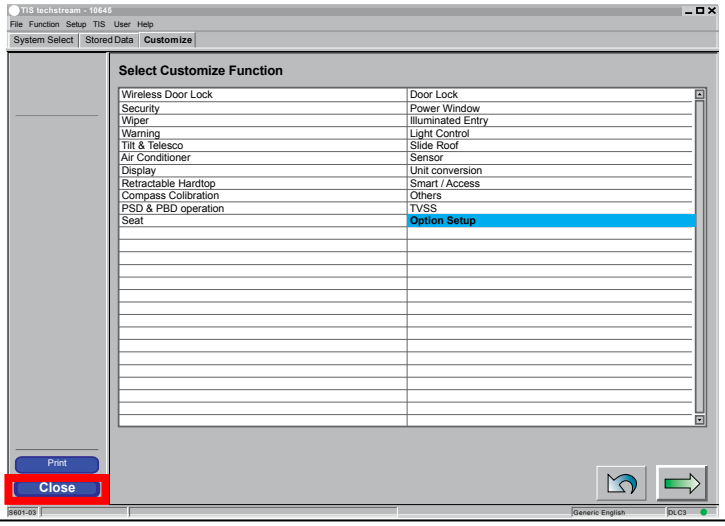
p. Click "Next" to accept the changes to the Vehicle.

Fig. 8-9

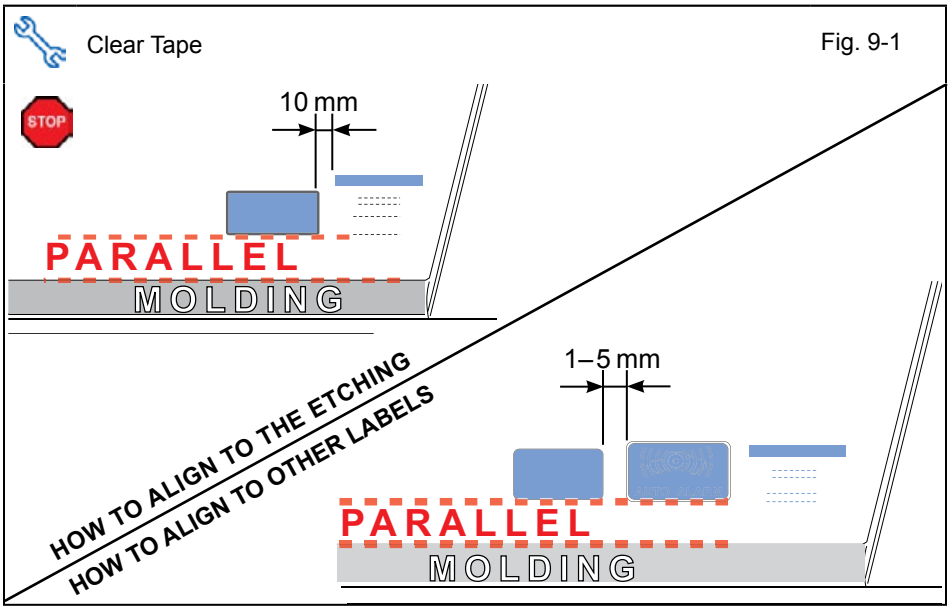


q. Click .

Fig. 8-10



r. Click “Close.”



9. Complete the Installation.

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

a. Use Household Glass Cleaner to clean the inside of the Front Door Window.

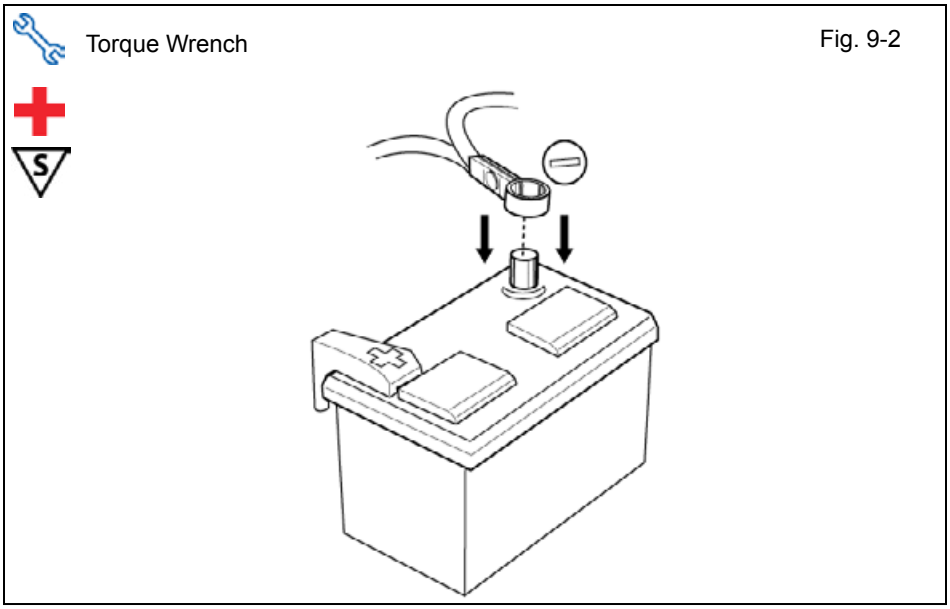
b. Use a piece of Clear Tape to lift the Label off its protective backing.

CAUTION: Do not touch the adhesive surface.

c. Attach the Label as shown.

NOTE: Make sure to Align according to Etching or Other Label.

REPEAT: steps a-c with the other Window.



d. Position the Negative Battery Cable at the original factory position.

Torque: 48 in•lbf (5.4 N•m)

CAUTION: Do not touch the Positive Terminal.

e. Clean up and Remove trash.

f. Sealed in its protective bag, place the V5 Owner's Manual in the Glovebox.

Accessory Function Checks

Roll up all windows, and exit the vehicle with the remote.

For Smart Vehicles: Take out the Smart Key and the Smart Card Key from the Vehicle. Place them 15 ft. (4.5 meters) or more away from the Vehicle.

	Perform	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 stops flashing.

Open the driver's door, turn the ignition switch 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 30 seconds.	The doors automatically re-locks. 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 re-locks. 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 "ON" to stop the alarm. For Smart vehicles, press START button twice to "ON"	The horn stops sounding. All the lights stop flashing and/or turn off. The Security LED turns off.

Turn the vehicle off, and then exit the vehicle with the remote.

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 re-locks. 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.

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

Perform the following check in a temperature-controlled environment. (50°-90° F)
For UV Windows: Use Striker Tool (CAD-E IADS P/N ALL 02-016-01)
For Acoustic Windows: Use Striker Tool (CAD-E IADS P/N LS 18-0004)

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

For Smart Vehicles: If the alarm does not trigger during functional verifications the Smart Key and Smart Card Key might be too close. Move them farther from the vehicle and test the system again.

NOTE: If the alarm does not trigger during the Glass Breakage 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			
☐	Dome/Courtesy Lights	☐	Horn
Start the Vehicle			
☐	Panel/Switch Illumination	☐	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.

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

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

☐	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.

