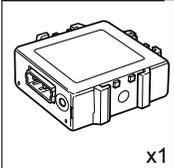
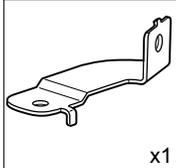
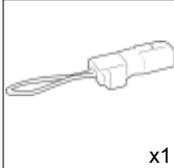
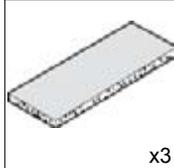
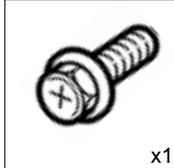
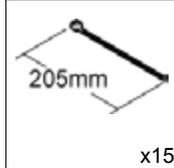
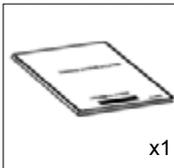


Part #: PT398-08102

Conflicts: Do not install into Vehicles with Factory Alarm, or without RKE systems.

Kit Contents

<p>GBS ECU</p>  <p>x1</p> <p>08190-0C820</p>	<p>GBS ECU Bracket</p>  <p>x1</p>	<p>V5 Harness</p>  <p>x1</p>	<p>Shorting Pin</p>  <p>x1</p>	<p>Foam Tape</p>  <p>x3</p>	<p>M6 Screw</p>  <p>x1</p> <p>91651-60618</p>	<p>Wire Tie</p>  <p>x15</p> <p>205mm</p>
<p>GBS Microphone</p>  <p>x1</p> <p>08192-6C810</p>	<p>V2 Window Label</p> <p>V2 Owner's Guide</p> <p>DISCARD</p> <p>English x2 Spanish x2</p>		<p>V5 Window Label</p>  <p>English x2 Spanish x2</p> <p>(E) 00107-VIPWS (S) PT398-48142-AA</p>	<p>V5 Owner's Guide</p>  <p>x1</p>		

Service Part #'s

Additional Items

(may be required)

Item#	Description

Recommended Sequence of Application

Item#	Description

Recommended Tools

Personal & Vehicle Protection	Description
Safety Glasses	
Safety Gloves	(Optional)
Vehicle Protection	Blankets
Special Tools	
Techstream	Use latest version on TIS
Striker Tool	CAD-E IADS P/N ALL 02-016-01
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	48 in•lbf (5.4 N•m)
Utility Knife	
Tape	Clear
Socket	10mm
Special Chemicals	
Cleaner	VDC Approved Cleaner
Glass Cleaner	Household Glass Cleaner

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Legend

-  Do not proceed until process has been completed.
-  Follow steps carefully to avoid damaging the Vehicle or Accessory
-  Use caution to avoid injury.
-  Used in Figures to call attention to specific tools recommended for the process.
-  Highlights a change in installation with respect to previous issue.
-  Indicates that torque is related to safety.
-  Video available; click to play.
-  Wire Tie location and 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.

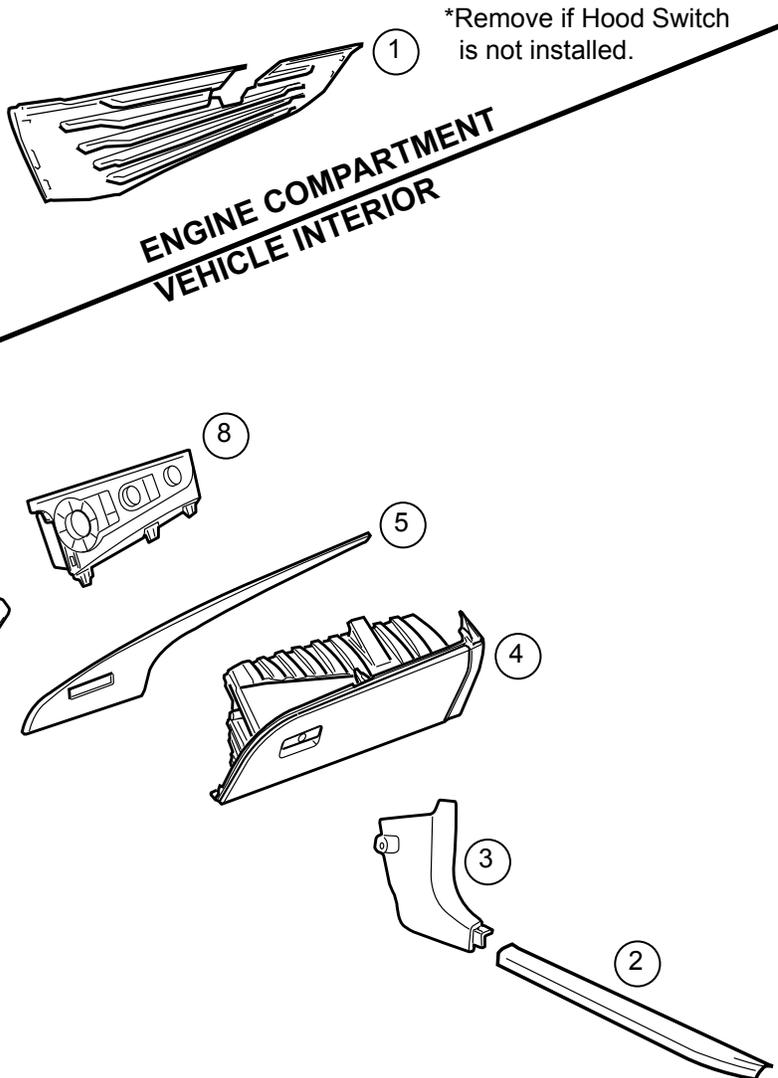
These guidelines can be found in the “Accessory Installation Practices” document.

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.

Disassembly Overview



1	Front Grill *
2	PS Step Cover
3	PS Cowl Cover
4	Glove Box
5	Dash Wood Trim
6	Shift Knob
7	Shift Trim
8	HVAC Control Panel



Disconnect all Corresponding Connectors.



Re-attach Panel Clips that fall off during disassembly.

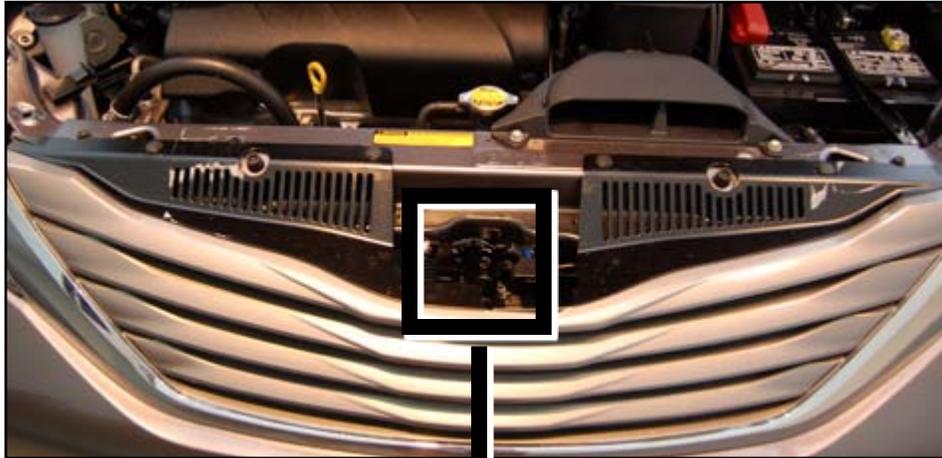
1. Hood Switch Shorting Pin Installation.

- d. Place the Vehicle in Park with the Parking Brake set.
- e. 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.

Check if Hood Switch is installed



YES

NO

**WITH
Hood Switch**
(Go to Next Section on Page 6)

**WITHOUT
Hood Switch**

Vehicles Without Hood Switch ONLY

- f. Remove the Vehicle's Front Grill by pulling outward.
 - Remove 6 Clips.



NOTE: Apply Protective tape on top of Bumper.

- g. Install the Hood Switch Shorting Pin on the Vehicle's Hood Switch Pre-Connector and attach to Vehicle.

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 sill plate clips.

- 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.

- i. Remove Shift Knob.
- j. Remove Shift Trim.

- k. Remove the HVAC Control Panel.

- v. Plug the V5 12P Connectors in between the V4's and the Vehicle's 12P Connectors.

- w. Secure the V5 and V4 12P Connectors to the Vehicle Harness with 1 Wire Tie.

4. GBS ECU Preparation and Installation.

- a. Attach GBS Bracket to the GBS ECU.
- b. Attach 1/2 Piece of Foam Tape to the Bracket.

- c. Set the GBS Sensitivity Value to 7.

- d. Install the GBS ECU using the supplied Bolt.



NOTE: Make sure the Guide Pin is seated correctly.

5. V5 Harness Installation (Continued)

- a. Route the V5 Harness across the Glovebox area and secure to the Vehicle Harness using 2 Wire Ties.
- b. Attach the V5 Harness to the HVAC Wire Clamps along with the Vehicle Harness.

- k. Connect the V5 8P Black Connector to the HVAC Control Panel Connector.
- l. Re-install the HVAC Control Panel to the Dash.

6. GBS Microphone Installation.

- a. Using the 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 as shown.



NOTE: Make sure to align GBS Mic to the Vehicle Bracket.

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



NOTE: Do not cover the GBS Microphone's opening with the Foam Tape.

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

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.

- 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.

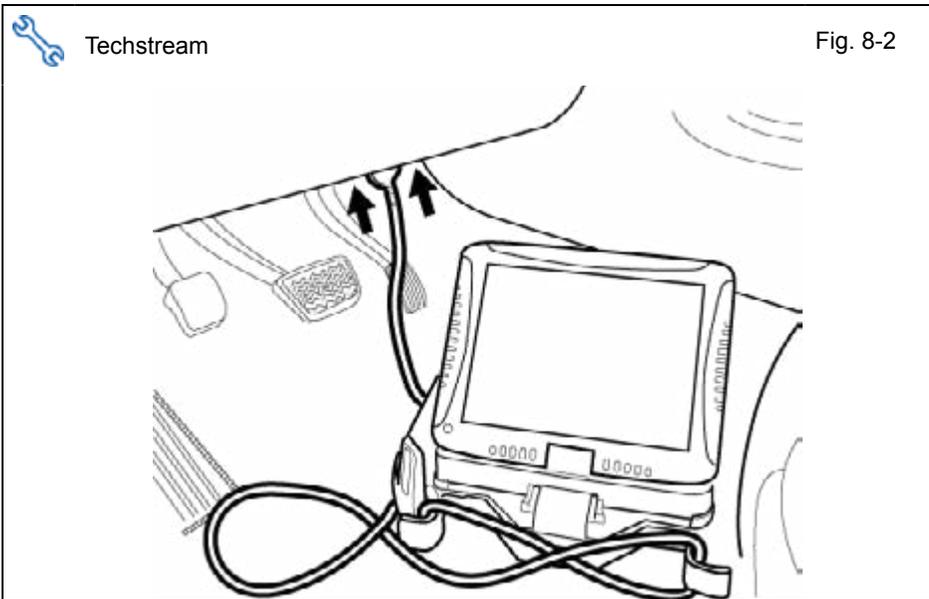


Fig. 8-2

- b. Connect the Techstream Notebook to the Vehicle's Diagnostic Port.
- c. Turn the Ignition Switch to "ON" position.

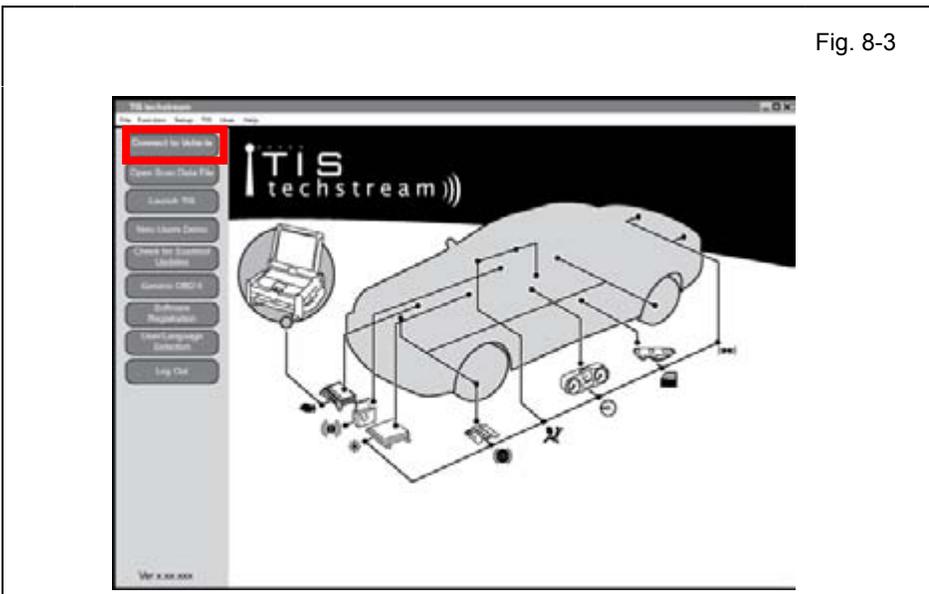


Fig. 8-3

- d. Start the TIS Techstream Application by clicking on the shortcut located on the Desktop.
- e. Click "Connect to Vehicle."

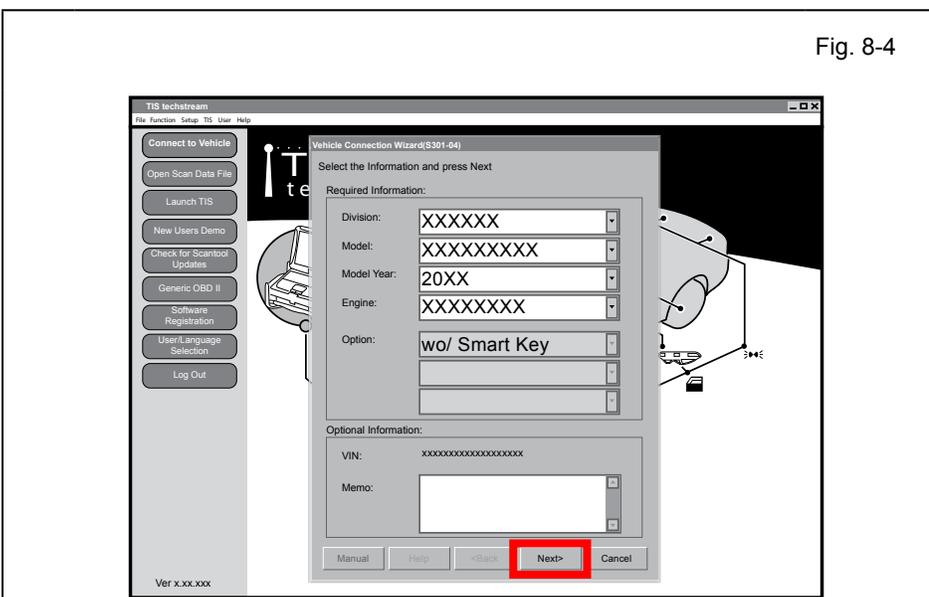
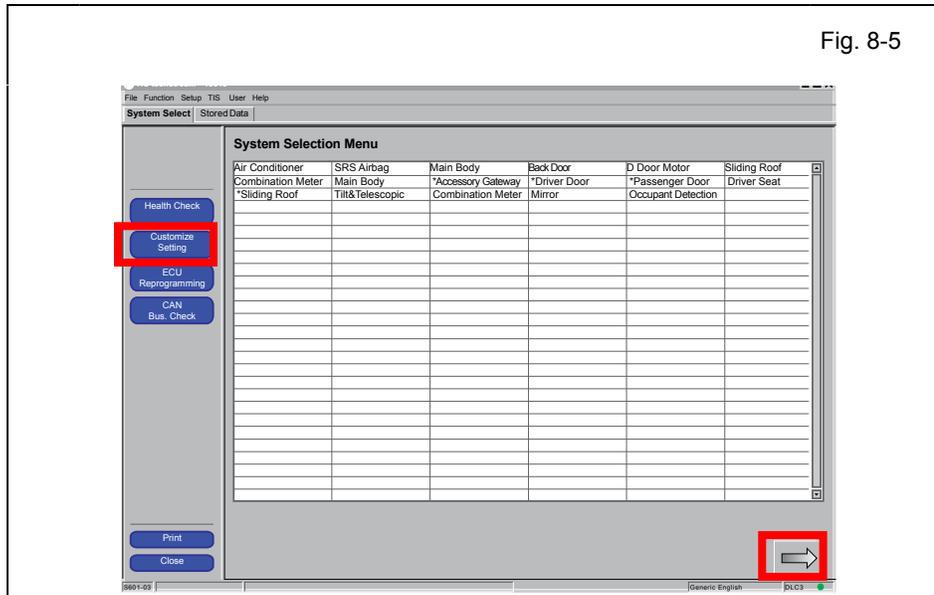
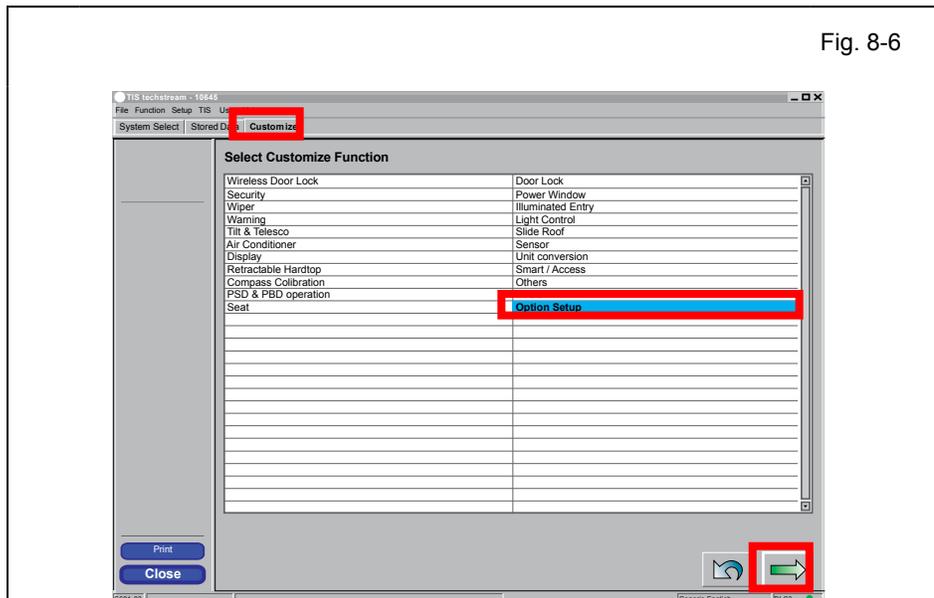


Fig. 8-4

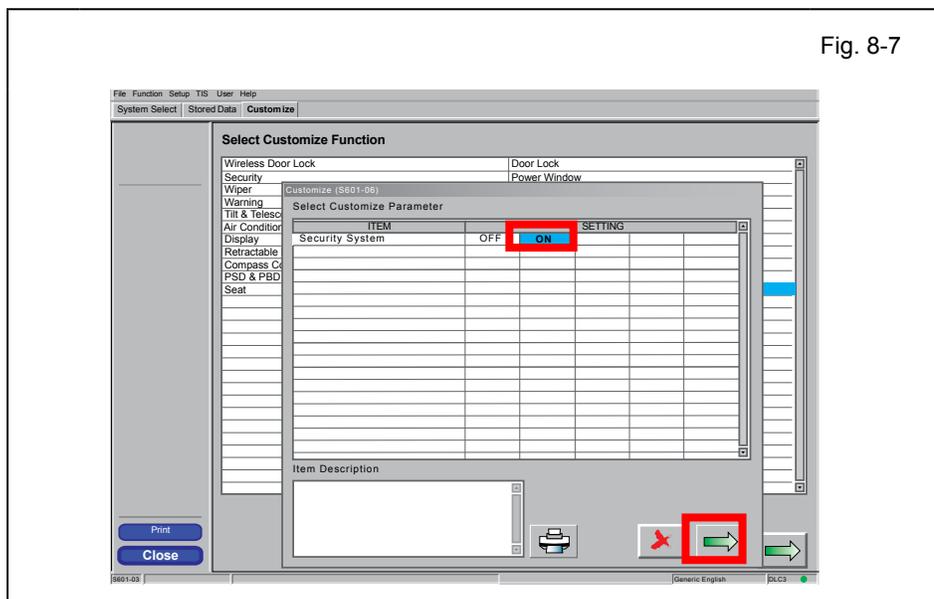
- f. Confirm that the information displayed on the Vehicle Connection Wizard is correct for the vehicle. If not, verify that the Techstream is properly connected.
- g. Select any additional "Option" items that are applicable to the vehicle.
- h. Click "Next>."



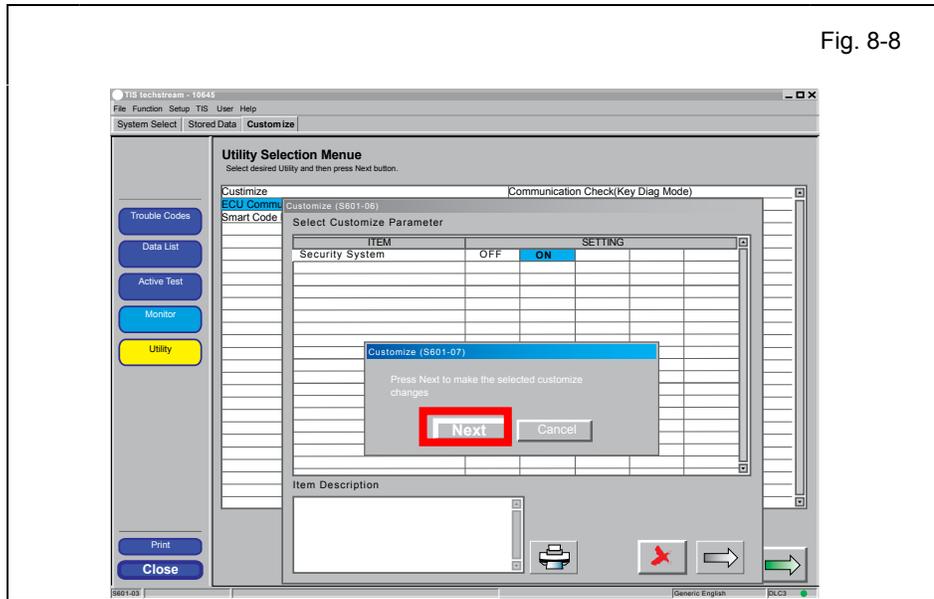
- i. Click "Customize Setting."
- j. Click .



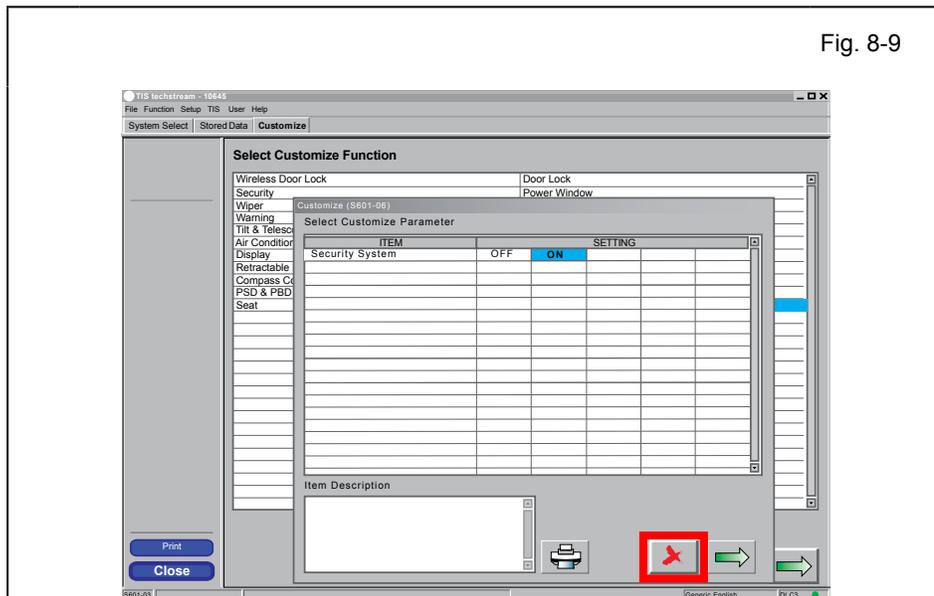
- k. Make sure that the "Customize" tab is selected.
- l. Select "Option Setup."
- m. Click .



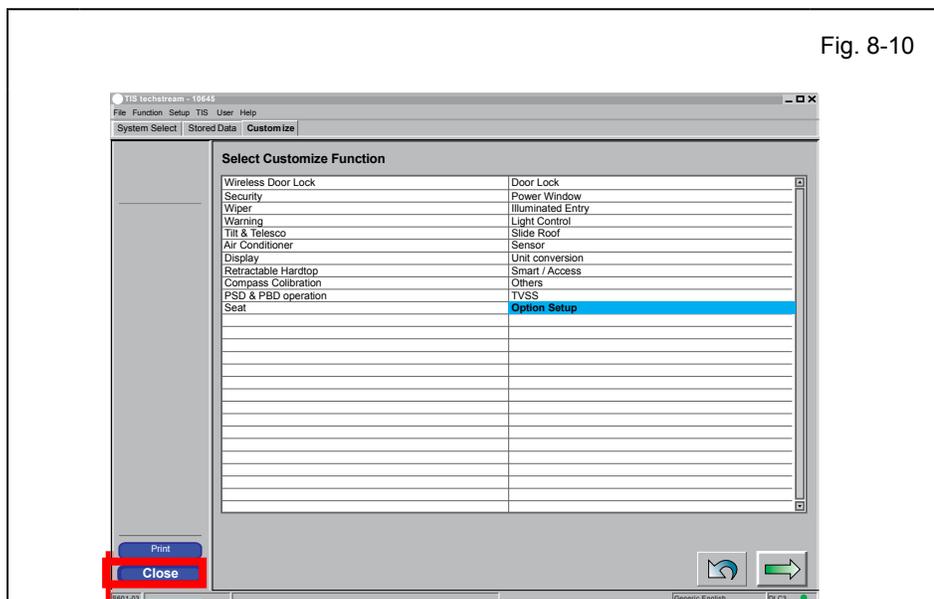
- n. Select "ON."
- o. Click .



- p. Click “Next” to accept the changes to the Vehicle.



- q. Click .



- 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 Windows.
 - 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.



- Tighten the Nut to 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.
- g. Reset the power windows.
 - Turn the ignition "ON."
 - Lower the Windows halfway.
 - Pull up on the Power Window Switches until the windows close.
 - Continue to hold up on the switches for a minimum of 1 Second.
- h. Reset the Moon Roof. (if equipped)
 - Turn the ignition "ON."
 - Open the Moon Roof halfway.
 - Push and hold the Moon Roof Switch to close until the Moon Roof closes.
 - Continue to hold the switch for a minimum of 1 Second.

Accessory Function Checks

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

	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. (For some vehicles the LED will continue to flash)

Open the driver's door, insert the key into the ignition switch and turn it to "ON". For Smart vehicles, press the START button twice 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 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. (For some vehicles the LED will continue to flash)
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. (For some vehicles the LED will continue to flash)
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.

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

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. (For some vehicles the LED will continue to flash)
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. (For some vehicles the LED will continue to flash)
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.



For Smart Vehicles: Take out the Smart Key, place them 15 ft. (4.5 meters) or more away from 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)

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. (For some vehicles the LED will continue to flash)
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 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:** For some Vehicles, the LED will continue to flash during the 30 seconds (pre-arming).

Vehicle Appearance Check

	Perform	Look For
<input type="checkbox"/>	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

<input type="checkbox"/> Dome/Courtesy Lights	<input type="checkbox"/> Steering Wheel Column Adjusts Without Interference
<input type="checkbox"/> Horn	

Start the Vehicle

<input type="checkbox"/> Panel/Switch Illumination	<input type="checkbox"/> Gauges
<input type="checkbox"/> Check Engine Light <i>If the warning light remains on, it may indicate a system malfunction.</i> 	<input type="checkbox"/> ABS Light (if equipped) <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> 	<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"/> Seat Belt Warning Light <i>If the warning light remains on, it may indicate a system malfunction.</i> 	<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"/> Air Bag Warning Light <i>If the warning light remains on, it may indicate a system malfunction.</i> 	
<input type="checkbox"/> Cruise Control Light (if equipped) 	

Using a Mirror or Assistant check the following.

<input type="checkbox"/> Trunk/Tailgate/Bed Lights (if equipped)	<input type="checkbox"/> Tail Lights
<input type="checkbox"/> Brake Lights	<input type="checkbox"/> Daytime Running Lights (if equipped)
<input type="checkbox"/> Backup Lights	<input type="checkbox"/> Marker Lights
<input type="checkbox"/> Clearance Sonar (if equipped)	

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

<input type="checkbox"/> Hazard Lights	<input type="checkbox"/> Turn Signal Lights
<input type="checkbox"/> Head Light	<input type="checkbox"/> Fog Lights (if equipped)
<input type="checkbox"/> High Beams	<input type="checkbox"/> Accessory Controls/Illumination (if equipped)
<input type="checkbox"/> Power Side Mirrors (if equipped)	<input type="checkbox"/> Convenience Memory Settings (if equipped)
<input type="checkbox"/> Power Sliding Door (if equipped)	<input type="checkbox"/> Rear Sunshade (if equipped)

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

Function		Function	
<input type="checkbox"/>	Front Wiper/Washer	<input type="checkbox"/>	Rear Wiper/Washer (if equipped)
<input type="checkbox"/>	Power Sun/Moon Roof (if equipped)	<input type="checkbox"/>	Rollover Side Curtain Air Bag Switch (RSCA) (if equipped)
<input type="checkbox"/>	Clock (if equipped)	<input type="checkbox"/>	Navigation System (if equipped)
<input type="checkbox"/>	Audio/Video (if equipped)	<input type="checkbox"/>	HVAC
<input type="checkbox"/>	Steering Wheel Audio Control (if equipped)	<input type="checkbox"/>	Rear Window Defogger (if equipped)
<input type="checkbox"/>	Front Windshield Defogger (if equipped)	<input type="checkbox"/>	Accessory Power Socket (if equipped)
<input type="checkbox"/>	Side Mirror Defogger (if equipped)	<input type="checkbox"/>	Heated/Vented Seats (if equipped)
<input type="checkbox"/>	Massage Seats (if equipped)		
<input type="checkbox"/>	Glovebox Light (if equipped)	<input type="checkbox"/>	Passenger Air Bag Switch (if equipped)
<input type="checkbox"/>	Power Locks (if equipped)	<input type="checkbox"/>	Power Windows (if equipped)
<input type="checkbox"/>	Power Seats (if equipped)	<input type="checkbox"/>	Key Sensor Buzzer