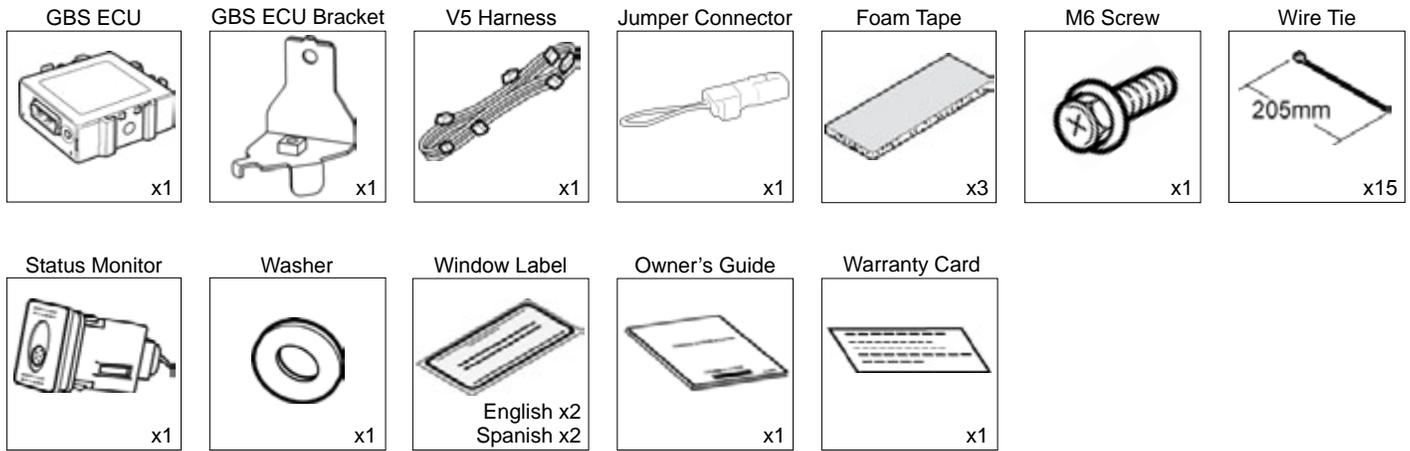


Part #: PT398-47090

Conflicts:

Prius Persona models

Kit Contents



Additional Items

(may be required)

Item#	Description

Recommended Sequence of Application

Item#	Description
1	TVIP V5 RS3200 plus
2	TVIP V4 Remote Engine Starter

Recommended Tools

Personal & Vehicle Protection	Description
Safety Glasses	
Safety Gloves	(Optional)
Vehicle Protection	Blankets, Parts Boxes
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)
Tape	Clear, Electrical
Socket	10mm, extension
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.

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.

c. Remove the Rear Box.

d. Remove the Rear Trims to gain access to the Battery.

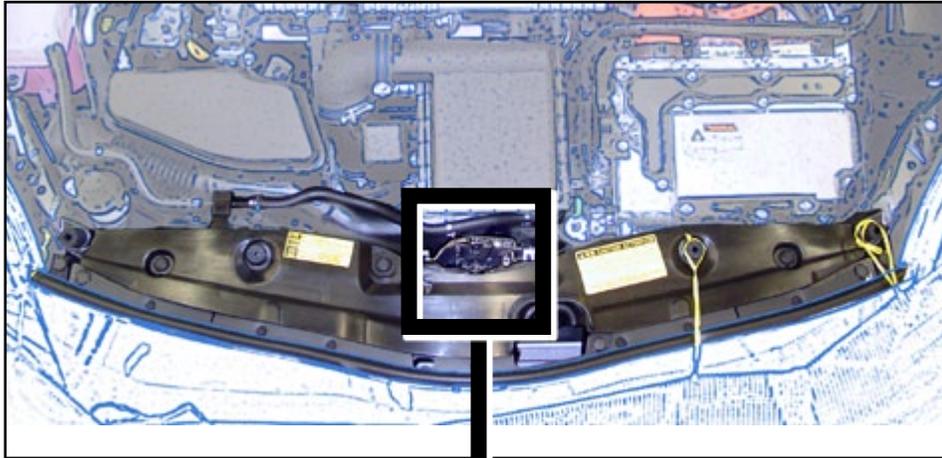
e. Disconnect the Negative Battery Terminal.

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

 **CAUTION:** Do not touch the Positive Terminal.

f. Swap the Bolt and Nut on the Negative Battery Terminal from one side to the other for easier installation.

Check if Hood Switch is installed



YES

NO

**WITH
Hood Switch**
(Go to Next Section on Page 9)

**WITHOUT
Hood Switch**

- h. Remove the tape securing Hood Switch Pre-Connector.
- i. Connect the Jumper Connector.

- j. Use 1 Wire Tie to secure the Hood Switch Connectors.

**2. Disassembly.
(Driver's Side)**

- a. Remove the Driver's Side Step Cover.

- b. Remove the Driver's Side Cowl Cover.

- Remove 1 Nut.

- c. Remove the Lower Dash Cover.

- Remove 1 Screw.

- d. Wrap the Lower Dash Cover in a blanket and place on the floor.

- e. Dislodge the Steering Column's Center Clip.



CAUTION: Do not force this clip as it is very easy to break.

- f. Release the Back Clips on both sides.

- g. Release the Front Clips on both sides.

- Turn the Steering wheel from Right to Left to access the Holes.
- Use a Flat Blade Jeweler's Screwdriver wrapped with Electrical Tape to release the clips.

3. GBS ECU Preparation.

V5/V4 ADD-ON ONLY

- a. Dislodge the RES ECU and GBS Bracket.
 - Remove 1 Bolt and Washer.



CAUTION: Do not drop the Bolt and Washer.

- b. Disconnect RES Connector.
- c. Discard the GBS Bracket.

d. Install the GBS Bracket from the Kit to the GBS ECU.

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

f. Set the GBS sensitivity value to "5".

4. V5 Wire Harness Installation. (Driver's J/B Area)

- a. Disconnect the Vehicle Connectors on the right side of the Junction Box.

- b. Disconnect the 36P Vehicle Connector.

- Release Black Connector Lever.

- c. Using a Flat Blade Jeweler's Screwdriver remove the Connector's Black Lever.



CAUTION: Do not force the Lever.

- d. Lift up the Terminal Retainer Clip.



CAUTION: Do not pull out the Retainer.



- e. Insert the V5 Green Wire Terminal into the indicated location on the 36P Vehicle Connector.

- Close the Terminal Retainer Clip.



VERIFY: Terminal Pins are properly inserted and do not come out.

- f. Re-attach the Connector's Black Lever.

- g. Reconnect the Vehicle Connectors.

V5 ONLY

- h. Install GBS ECU using the Bolt and Washer from the Kit.



CAUTION: Do not drop the Bolt and Washer.

V5/V4 ADD ON ONLY

- i. Attach RES Bracket to the GBS Bracket.
- j. Install the GBS ECU with RES Bracket using the Bolt and Washer from the Kit.



CAUTION: Do not drop the Bolt and Washer.

- k. Connect the V4 24P Connector to the RES ECU.

- l. Connect the V5 8P Connector to the GBS ECU.
- m. Secure the V5 Harness to Vehicle Harness with 2 Wire Ties.
- n. Secure the V5 5P BLACK Connector as shown using 1 Wire Tie.

- o. Dislodge the Vehicle's Harness Shielding.
 - Release 1 Clip.
- p. Route the V5 Harness along the Vehicle Harness towards the Driver's Cowl Area.
- q. Reinstall the Vehicle's Harness Shielding.
- r. Secure the V5 Harness to Vehicle Harness Shielding with 1 Wire Tie.

5. V5 Wire Harness Installation. (Driver's Cowl Area)

- a. Secure V5 Harness to Vehicle Harness with 1 Wire Tie.

V5 ONLY

- b. Connect the V5 3P Connector to the Vehicle's 3P Pre-Connector.

c. Use 2 Wire Ties to secure the V5 3P Connectors as shown.

d. Disconnect the Vehicle's White 12P Connector.

e. Plug the V5 12P Connectors in between the Vehicle's Connectors.

f. Disconnect the Vehicle's 26P Connector.

g. Plug the V5 26P Connectors in between the Vehicle's Connectors.

h. Use 1 Wire Tie to secure the V5 26P Connectors to the Vehicle Harness.

i. Use 1 Wire Tie to secure the V5 12P Connector to the Vehicle Harness.

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

o. Disconnect the Vehicle's and V4's 26P Connectors.

p. Plug the V5 26P Connectors in between the V4's and the Vehicle's Connectors.

6. Registration Preparation.

- a. Using VDC approved cleaner and cleaning method, clean the area indicated on the Lower Dash Cover.
- b. Attach 2 Foam Tapes as shown.
- c. Replace Knockout Panel with the V5 Status Monitor.

- d. Connect the V5 4P Connector to the V5 Status Monitor.
- e. Reinstall the Lower Dash Cover.
 - Reconnect the Vehicle's Connectors.

f. Reassemble the Vehicle.



Note: Make sure that all Connectors are reconnected.



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

g. Verify that the Short Pin is Installed.

- If not Install now.

h. Temporarily reconnect the Negative Battery Cable.



CAUTION: Do not touch the Positive Terminal.

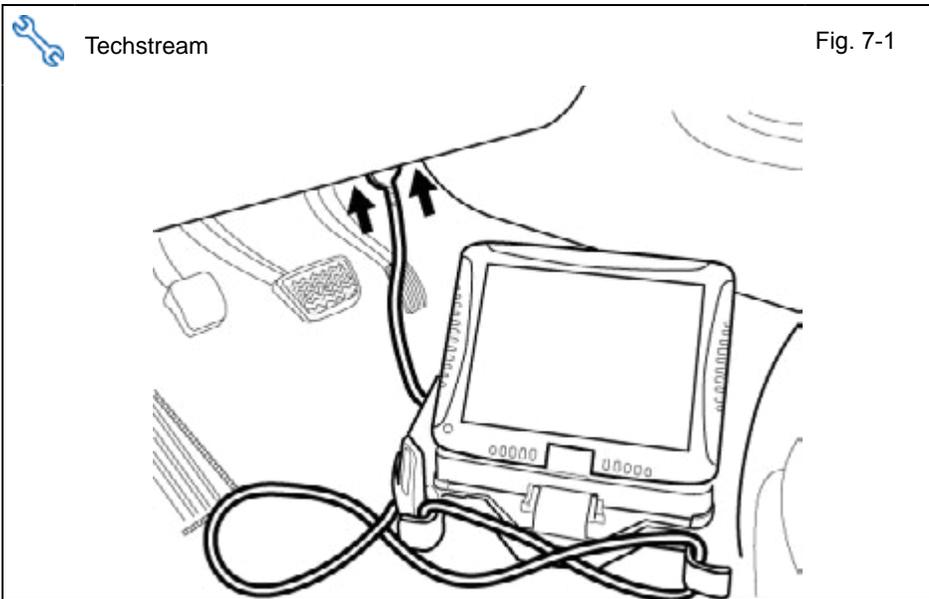


Fig. 7-1

7. Registration.

- a. Connect the Techstream Notebook to the Vehicle's Diagnostic Port.
- b. With the Smart Key in your possession, press the Power Button twice to select the Ignition "ON" position.

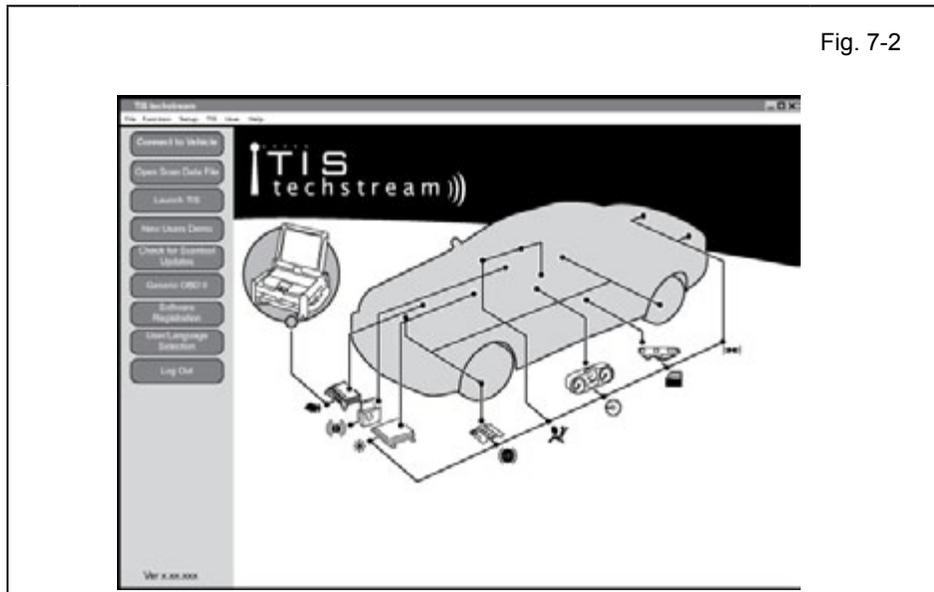


Fig. 7-2

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

- d. Click "Connect to Vehicle."

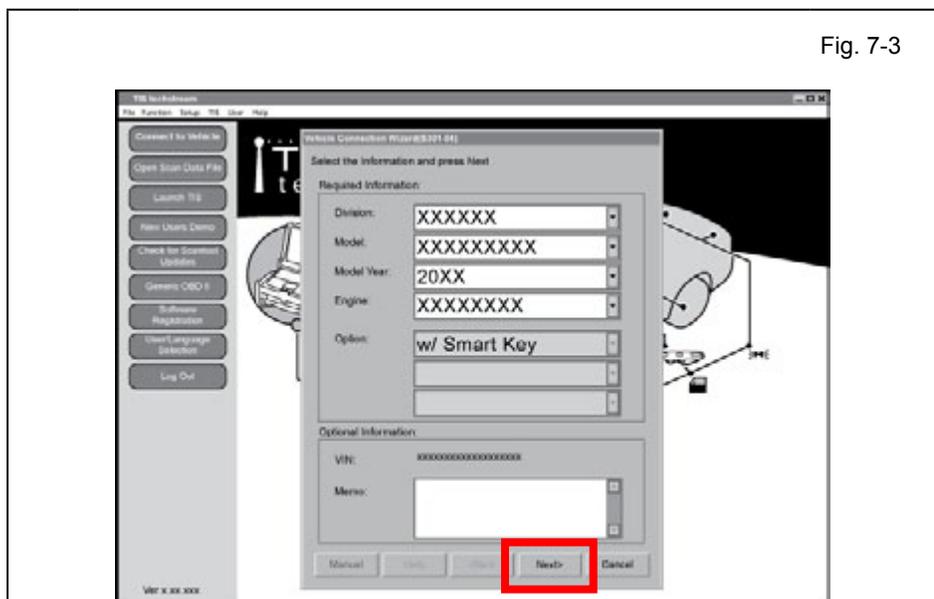


Fig. 7-3

- 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.

- f. Select w/Smart Key.

- g. Click "Next>."

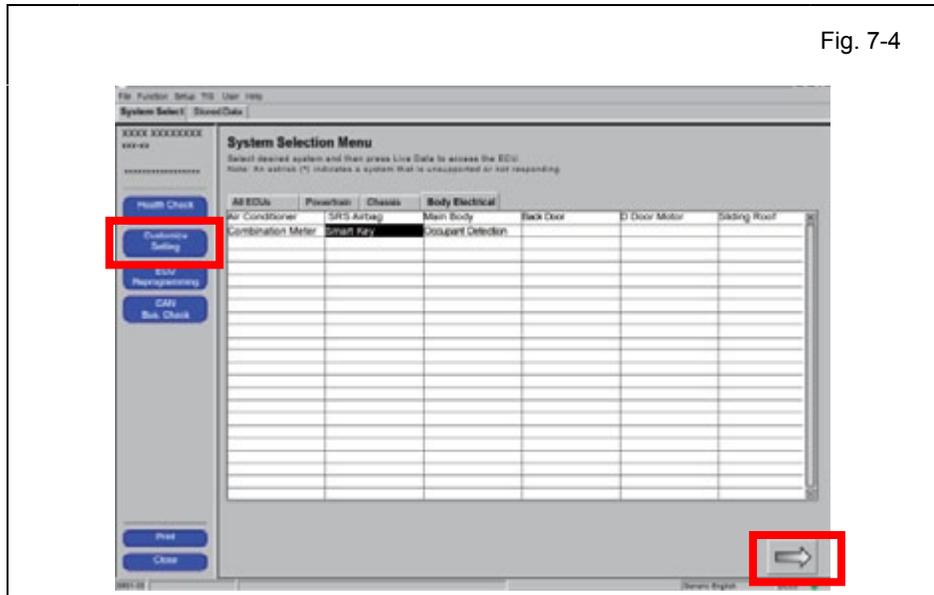


Fig. 7-4

h. Click "Customize Setting."

i. Click .

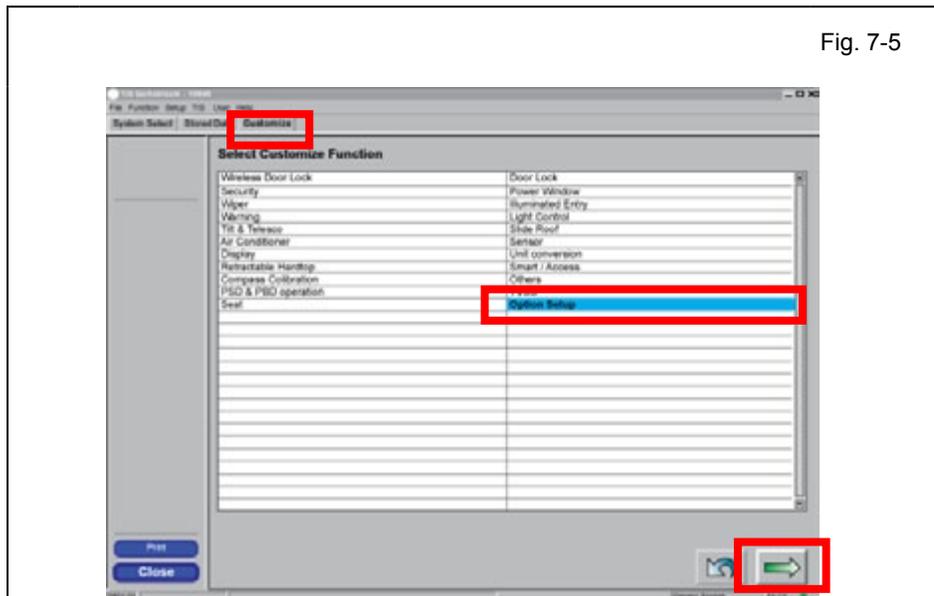


Fig. 7-5

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

k. Select "Option Setup."

l. Click .

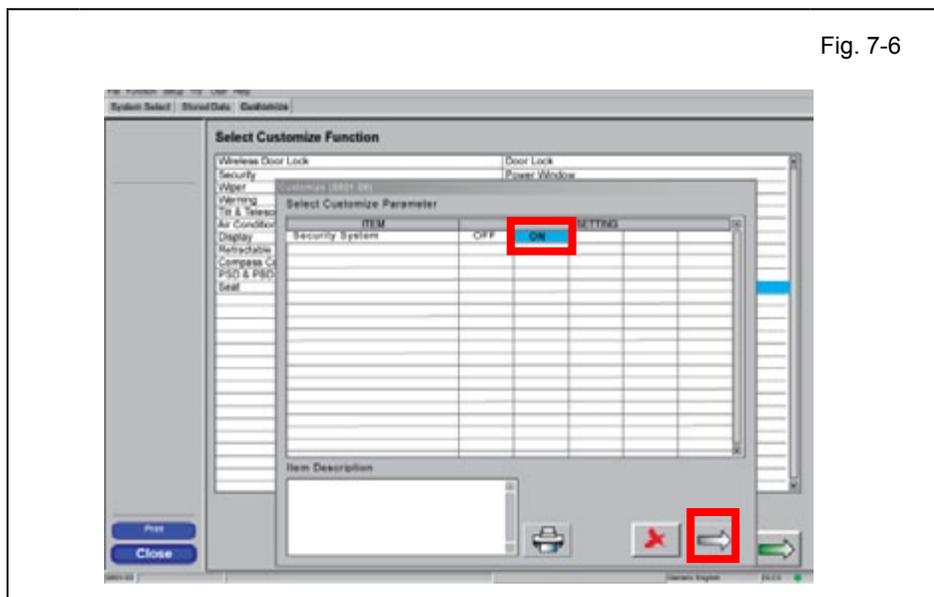
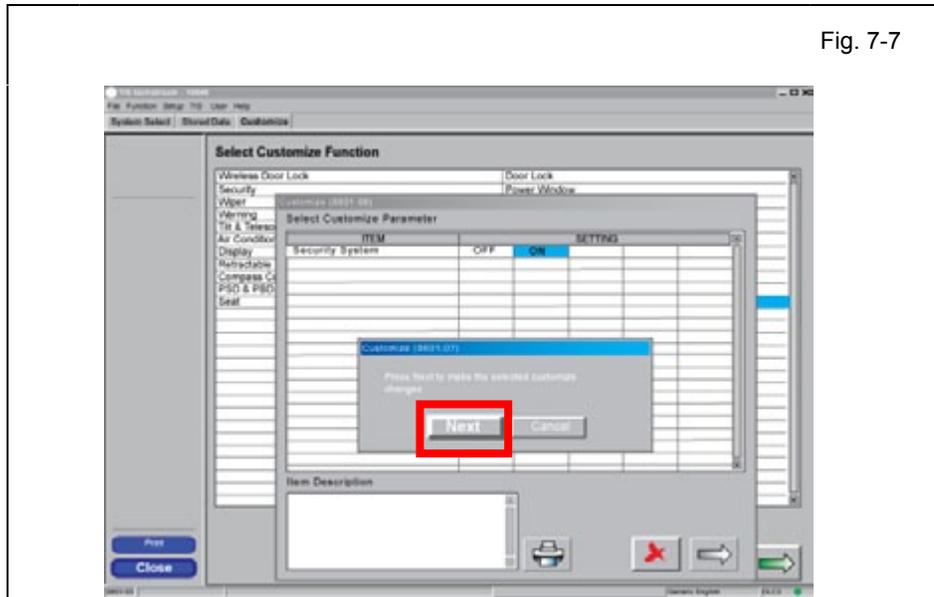


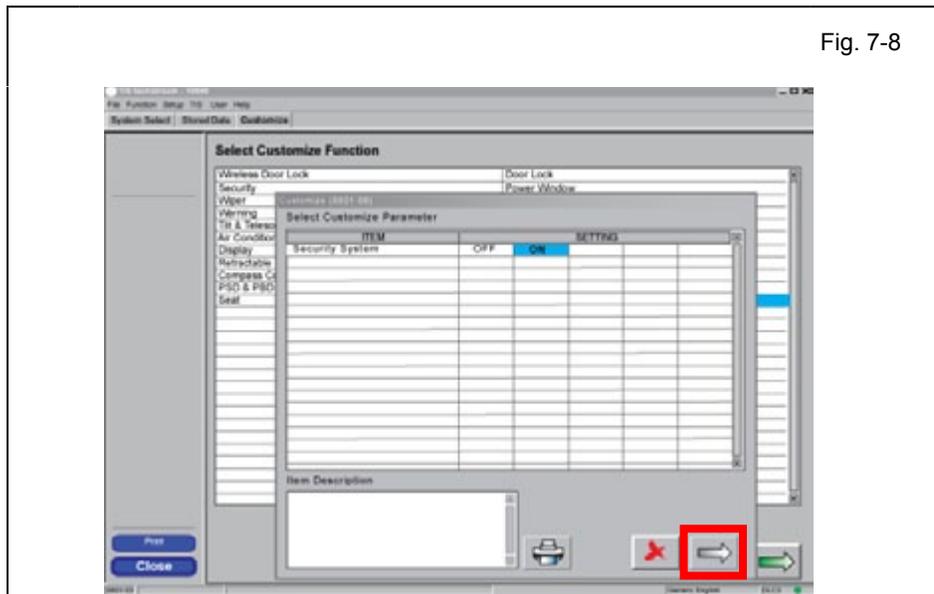
Fig. 7-6

m. Select "ON."

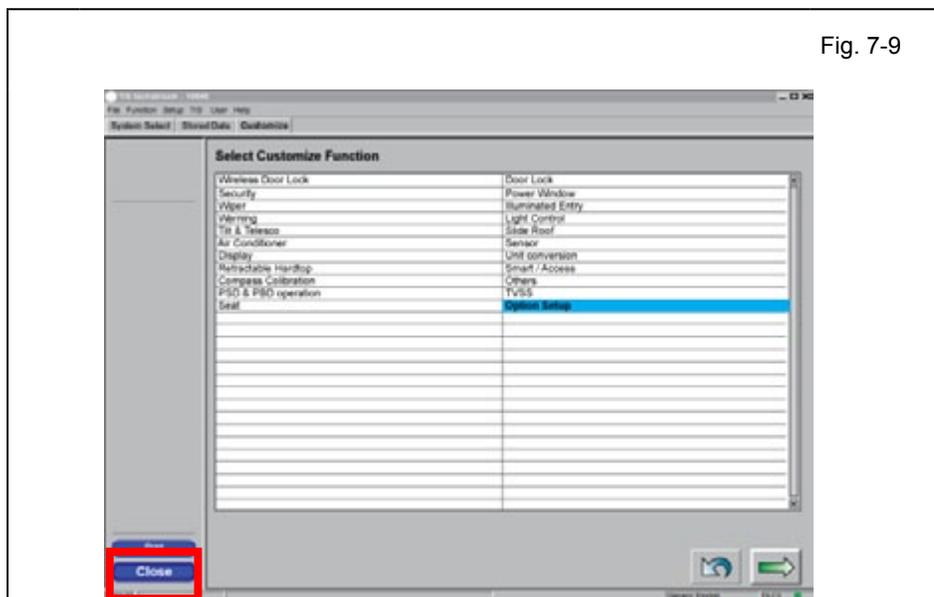
n. Click .



- o. Click "Next" to accept the changes to the Vehicle.



- p. Click .



- q. Click "Close."

8. 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.

9. Completing the Installation.

- a. 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.

- b. Finish reassembling the Vehicle.



VERIFY: That panels fit together properly, with no uneven gaps.



VERIFY: That all Connectors are plugged in.

- c. Clean up and Remove trash.
- d. Sealed in its protective bag, place the Owner's Manual in the Glove box.
- e. 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.



Torque Wrench

Fig. 9-1



Accessory Function Checks



Take the Smart Key and the Smart Card Key away from the Vehicle. Place them 7ft. (2 meters) or more away from the Vehicle.

	Procedure	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 turns OFF; 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 flashing.

Open the driver's door, with the smart key in your possession, press the power button 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-lock. 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	Press the lock button on the driver's exterior door handle to start the arming process.	All doors lock. The Security LED lights up.
7	Wait 30 seconds.	Security LED turns OFF; 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	The smart key in your possession, press the power button twice on the dash 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.

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

Press the “START” button to turn the vehicle off, and then exit the vehicle.

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 turns OFF; 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 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.



Take the Smart Key and the Smart Card Key away from the Vehicle. Place them 7ft. (2 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.	After 30 seconds, the Security LED turns OFF; 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	Press and release the remote control’s unlock button to stop the alarm.	Refer to Step 14



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

NOTE: If the alarm does not trigger during functional verifications, increase the GBS sensitivity to the next setting.

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



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

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	<input type="checkbox"/> Hood Release Lever

Start the Vehicle

<input type="checkbox"/> Starter	<input type="checkbox"/> Gauges
<input type="checkbox"/> Panel/Switch Illumination	<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

Remove the short pin after Function check.

Check with your Port/Dealer to see if this step is necessary.

