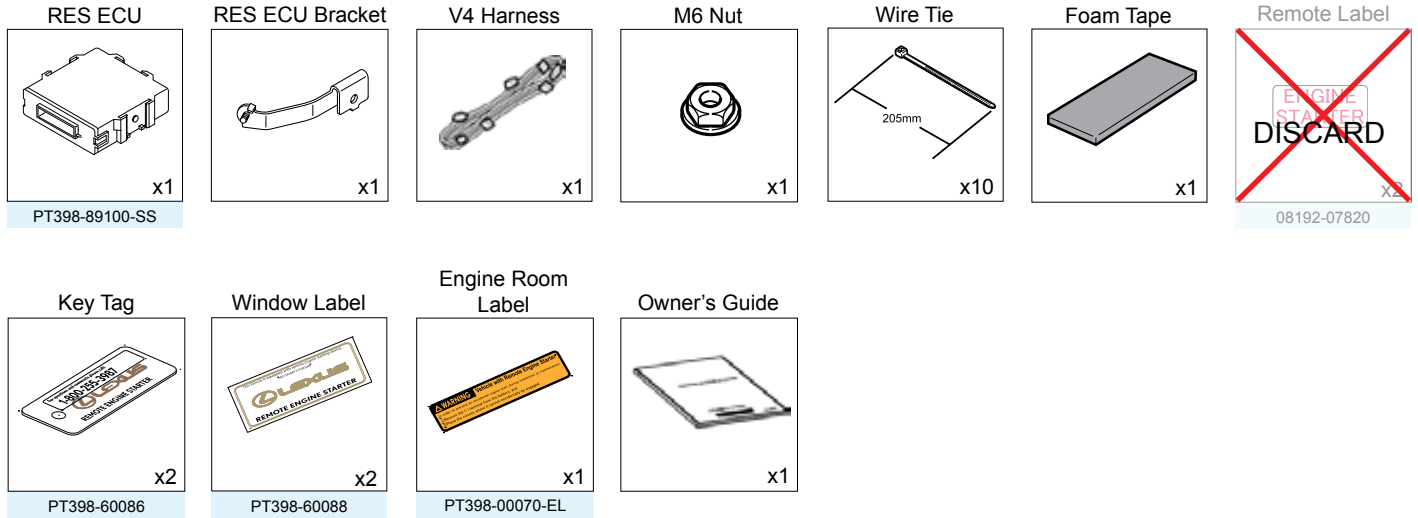


Part #: PT398-00120

Conflicts:

Will not program with Techstream Lite.

**Kit Contents**



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)
<b>Special Tools</b>	
Techstream	Use latest version on TIS (Do not use Techstream Lite)
<b>Installation Tools</b>	
Screwdriver	#2 Phillips
Nylon Panel Removal Tool	e.g. Panel Pry Tool #1 Toyota SST# 00002-06001-01
Utility Knife	
Side Cutters	
Torque Wrench	Battery: 48 in•lbf (5.4 N•m)
Tape	Clear, Electrical
Socket	10mm, Extension
<b>Special Chemicals</b>	
Cleaner	VDC Approved Cleaner
Glass Cleaner	Household Glass Cleaner

**Table of Contents**

I. Preparation .....	1–3
1. Table of Contents .....	2
2. Wire Routing Overview .....	3
II. Procedure .....	4–19
1. Vehicle Disassembly .....	4
2. RES ECU Preparation and Installation .....	8
3. V4 Harness Installation .....	9
4. Registration Preparation .....	12
5. Registration .....	12
6. Complete the Installation .....	18
7. Tag and Labels .....	19
III. Checklist .....	20–22
1. Accessory Function Checks .....	20
2. Vehicle Function Checks .....	21

**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 LEXUS dealer for a copy of this document.





c. Remove the Driver's Side Step Cover.

d. Remove the Driver's Side Cowl Cover.

e. Remove the Driver's Side Dash Cover.

- Apply Protective Tape on Pry Area.

- f. Remove the Driver's Side Cluster Panel.
- || • Apply Protective Tape on Pry area.

- g. Remove the Center Cluster Panel.
- || • Apply Protective Tape on Pry area.  
|| • Disconnect "Engine Start Stop" Button connector.

- h. Remove the Center Console Driver's Side Panel.



- i. Dislodge the Driver's Side Under Cover.

- Remove 3 Screws.



**CAUTION:** Do not disconnect the Vehicle's Connectors.

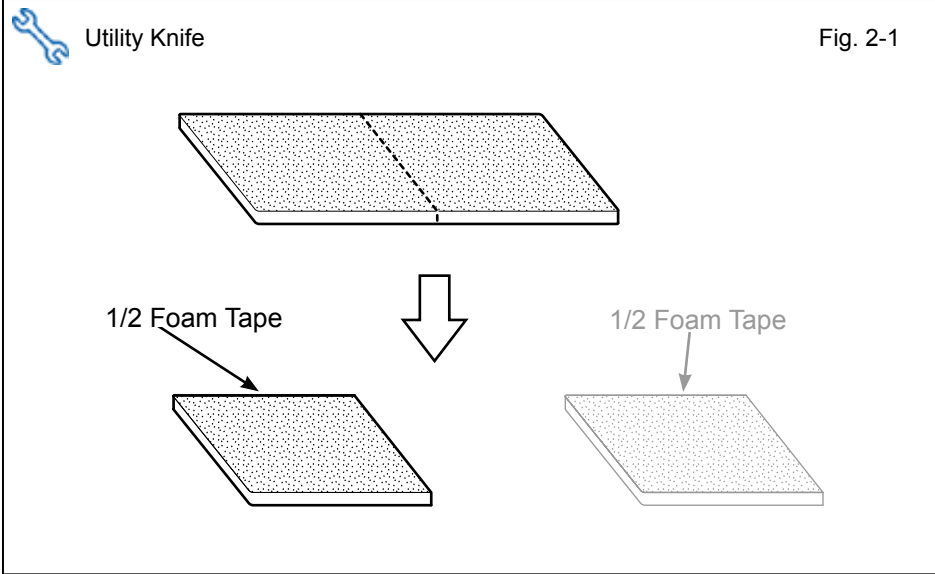
- j. Wrap the Driver's Side Under Cover with a blanket and place on a box to prevent stress on Vehicle wires.

- k. Remove the Lower Dash Cover.

- Disconnect all connectors.

- l. Pull back on the Driver's Side Cowl Floor Carpet.

- Gently pull back carpet to reveal clip.
- Press on clip and pull Cowl Carpet away, disengaging hook-and-loop tape.



## 2. RES ECU Preparation and Installation.

- a. Cut the Foam Tape in half.
  - Discard the other half.



- b. Attach the Half Foam Tape to the RES ECU.



- c. Attach the RES ECU Bracket to the RES ECU.



- d. Position the RES ECU behind the Vehicle brace and install using the supplied Nut.



**NOTE:** Make sure the Guide Pin is seated correctly and Verify that the Nut is tightened securely.

### 3. V4 Harness Installation.

- a. Plug in the V4 White 24P Connector to the RES ECU.

- b. Secure the V4 Harness White Tape Marker to the Vehicle Harness using 1 Wire Tie.



**NOTE:** Make sure to route the V4 Harness above the Hood Release Cable.

- c. Route the V4 Harness's 1P Diagnostic Connectors toward the Driver's Side Cowl area.
- d. Secure the V4 Harness to the Vehicle Harness using 1 Wire Tie.



**NOTE:** Route the V4 Harness on the right side of the vehicle harness as shown.

- e. Secure the V4 Harness to the Vehicle Harness using 1 Wire Tie and route toward the Driver's side under cover.

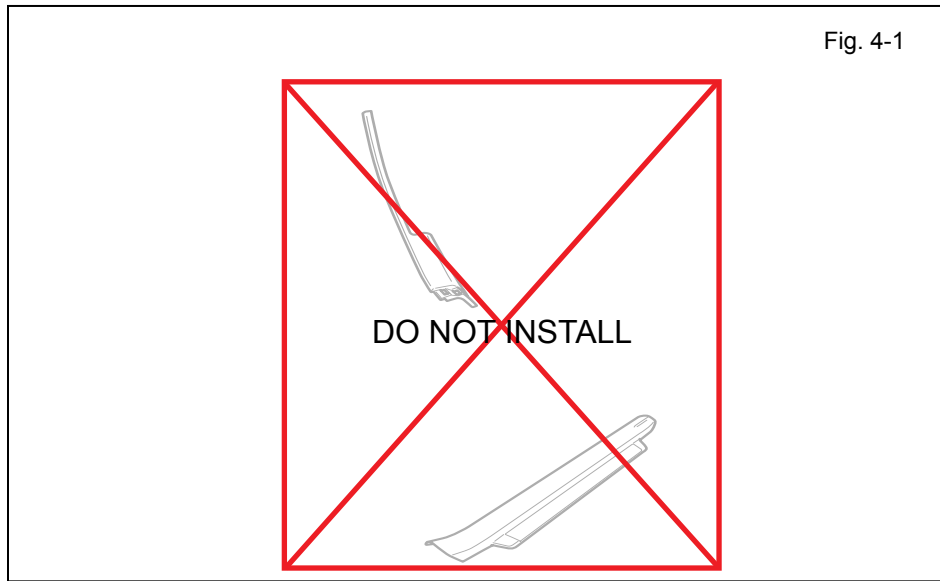


**NOTE:** Make sure to route the V4 Harness above the Hood Release Cable.

- f. Connect the V4 White 10P Connector to the Vehicle's 10P Pre-Connector
- g. Secure the V4 Harness to the Vehicle Harness using 1 Wire Tie.

- h. Secure the V4 Harness to the Vehicle Harness using 1 Wire Tie.

- i. Secure the V4 Harness to the Vehicle Harness using 2 Wire Ties.



#### 4. Registration Preparation.

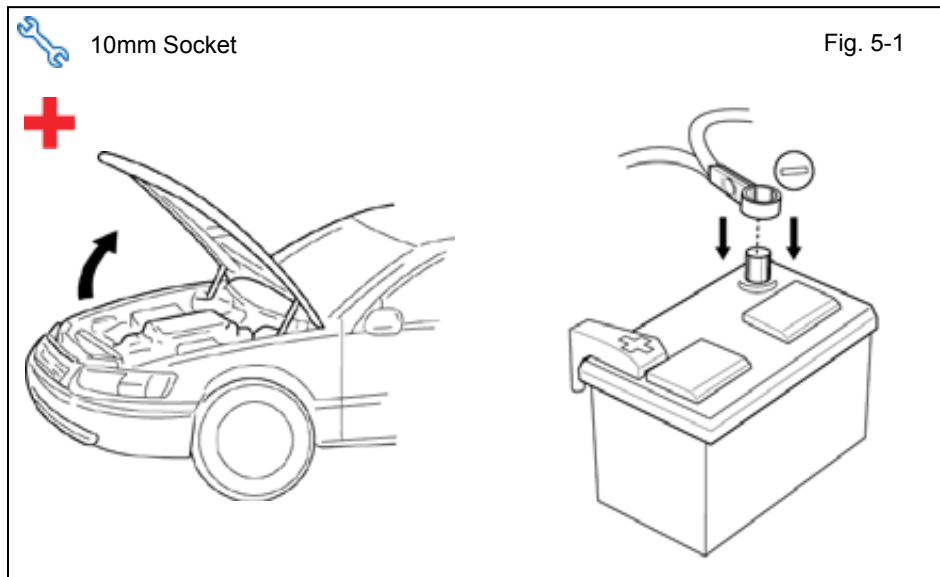
- Verify that the Short Pin is installed.
  - If not install now.
- Reassemble the Vehicle except for the Driver's Cowl and Step Covers.



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



**VERIFY:** That all Connectors are plugged in.

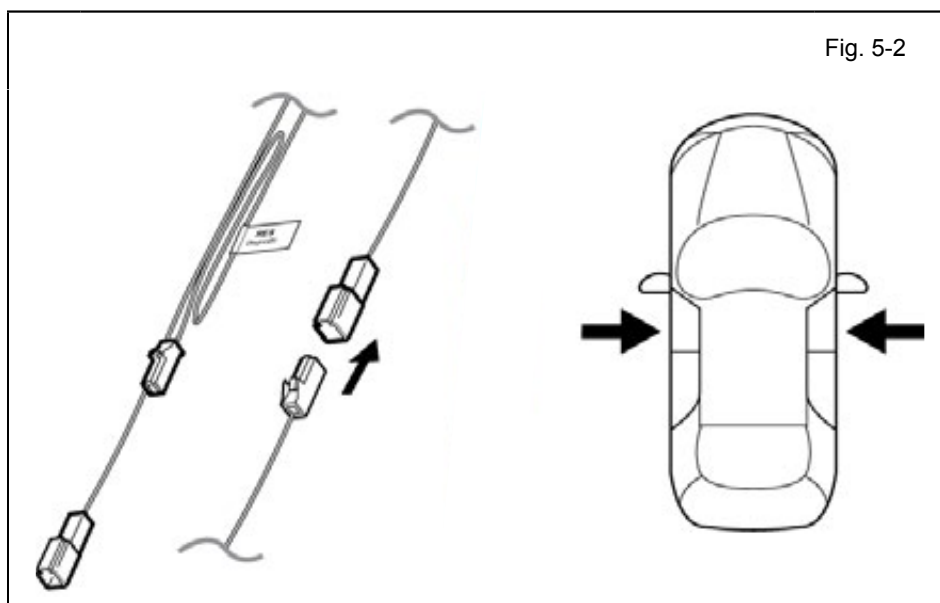


#### 5. Registration.

- Open the Hood.
- Temporarily reconnect the Negative Battery Cable.



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



- Locate the 1P RES Diagnostic Connectors in the Driver's Side Cowl Area and connect them.

**NOTE:** Once connected you will have 10 minutes to complete this section, steps d-ab.

- Close all doors.

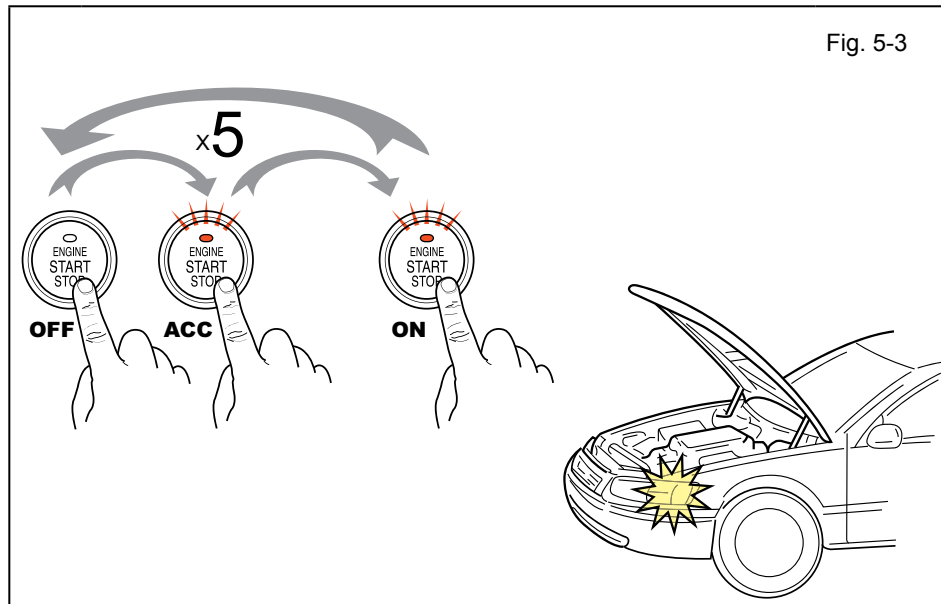


Fig. 5-3

- e. Place the Vehicle in Park (P) or Neutral (N) position.
- f. Cycle the “Engine Start Stop” Button from OFF to ON 5 times.

**NOTE:** One cycle consists of: OFF → Accessory → ON. This is equivalent to pressing the “Engine Start Stop” Button 14 times.

**NOTE:** Do not apply Brake pedal.

**LOOK:** For the Hazard Lights to Flash Once.

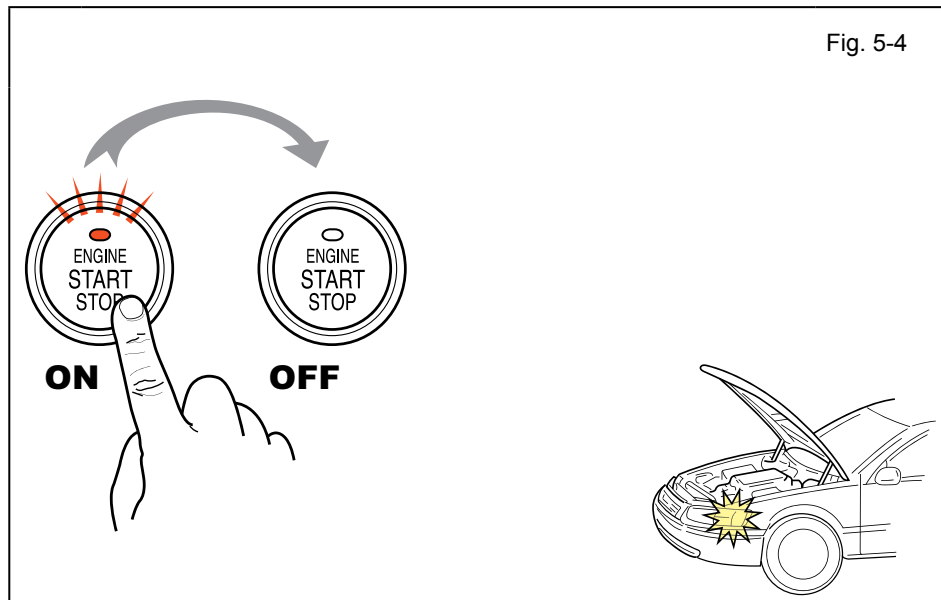


Fig. 5-4

- g. Start the Engine.
- h. After 10 seconds stop the Engine.

**LOOK:** For the Hazard Lights to Flash Once.

### IF THIS PROCEDURE FAILED

The Hazard Lights won't Flash or Flashes Twice.

- Disconnect the V4 Harness's 1P RES Diagnostic Connectors.
- Start again from step c.

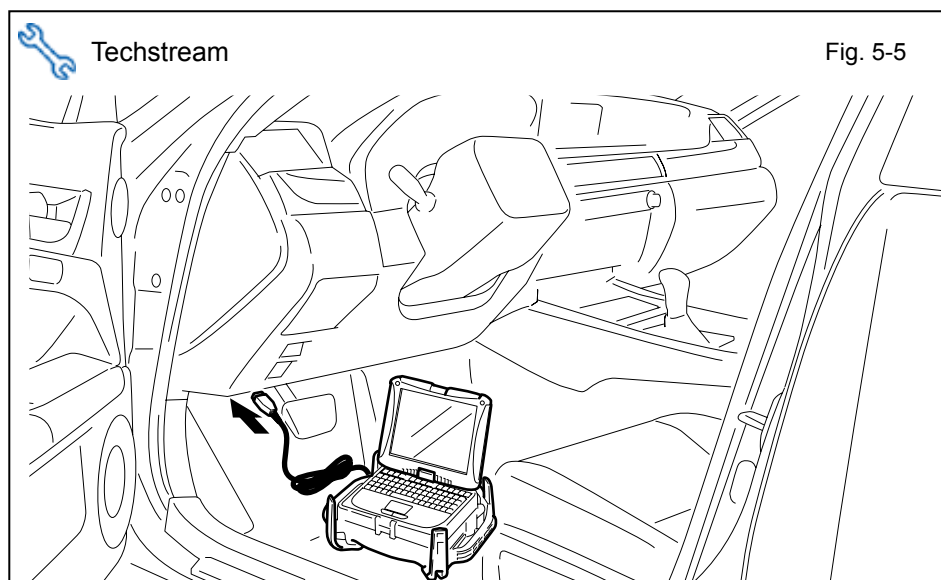
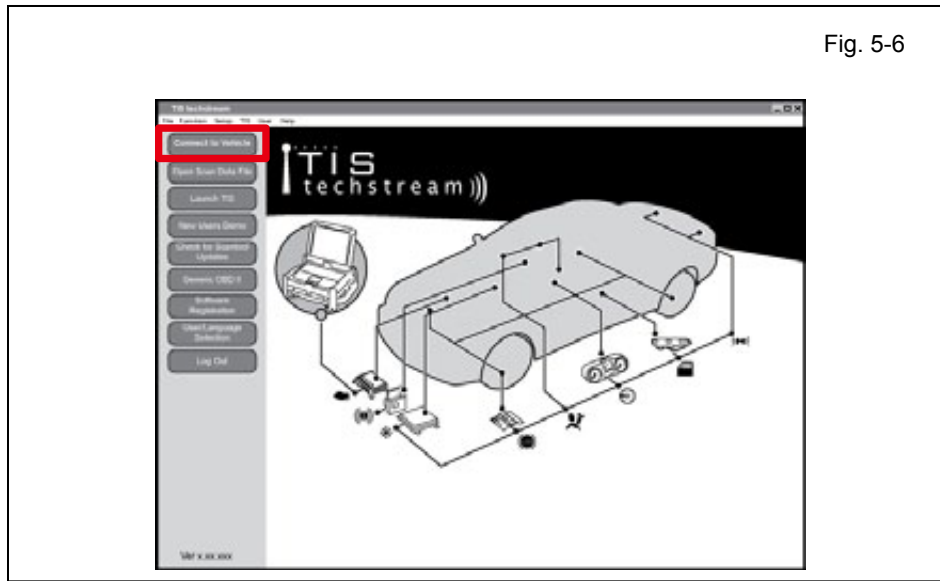


Fig. 5-5

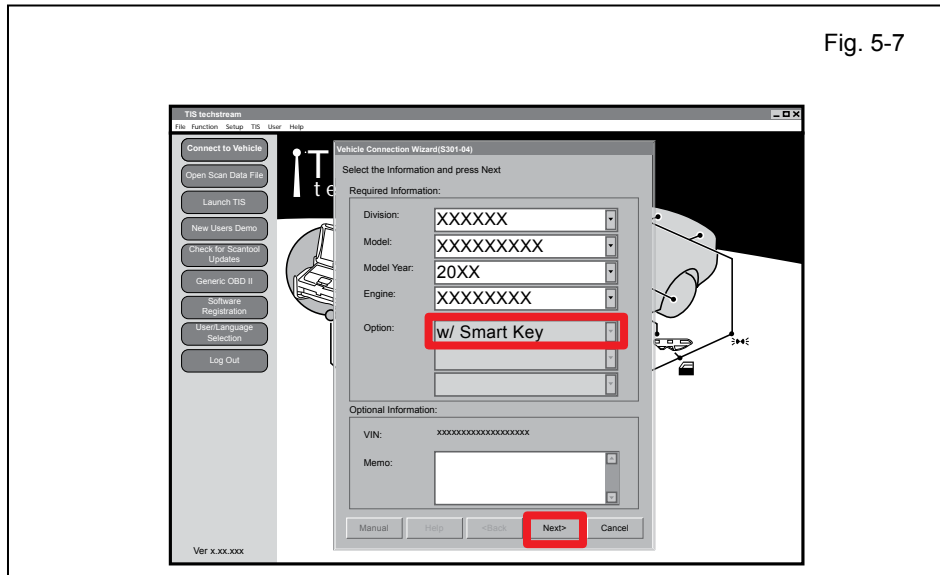


**CAUTION:** Techstream Lite will not work for this section, use the Techstream Notebook ONLY.

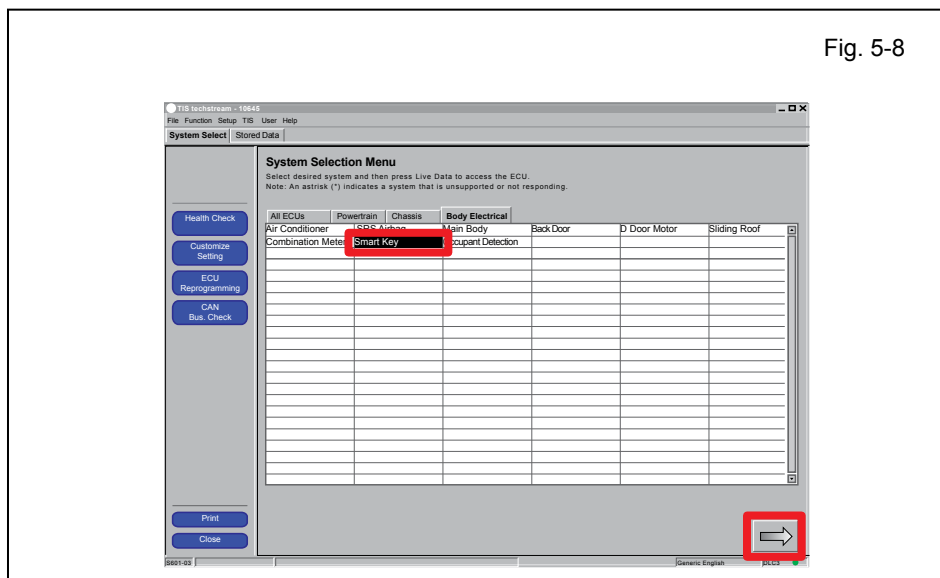
- i. Connect the Techstream Notebook to the Vehicle's Diagnostic Port.
- j. With the Smart Key in your possession, press the “Engine Start Stop” Button twice to select the Ignition “ON” position.



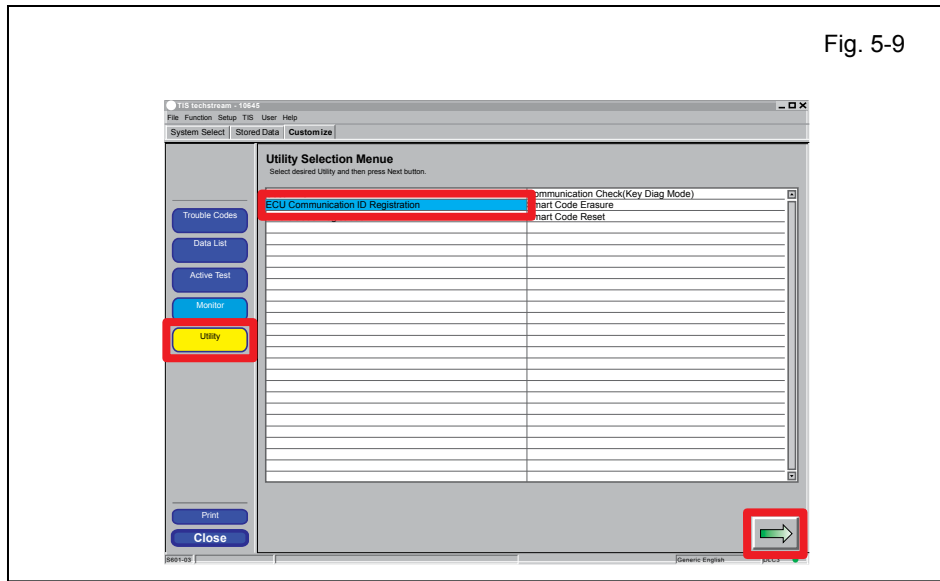
- k. Start the TIS Techstream Application by clicking on the shortcut located on the Desktop.
- l. Click "Connect to Vehicle".




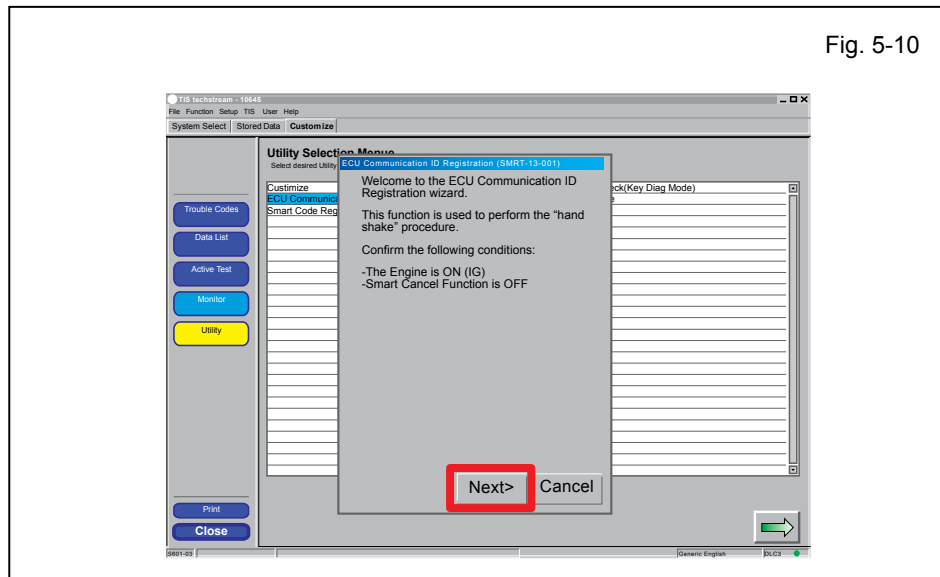
- m. Confirm that the information displayed on the Vehicle Connection Wizard is correct for the vehicle. If not verify that the Techstream is properly connected.
- n. Select w/Smart Key.
- o. Click "Next>".



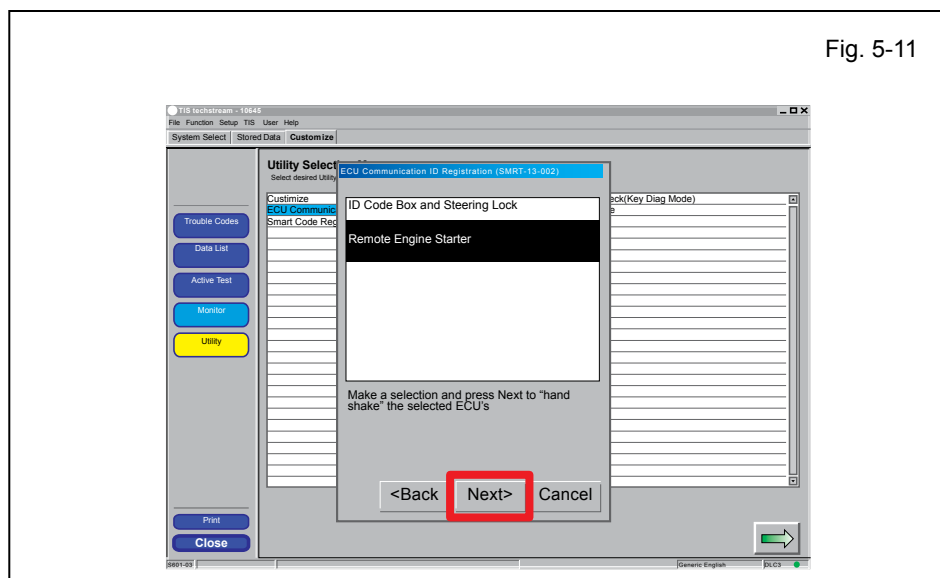
- p. Select "Smart Key".
- q. Click .



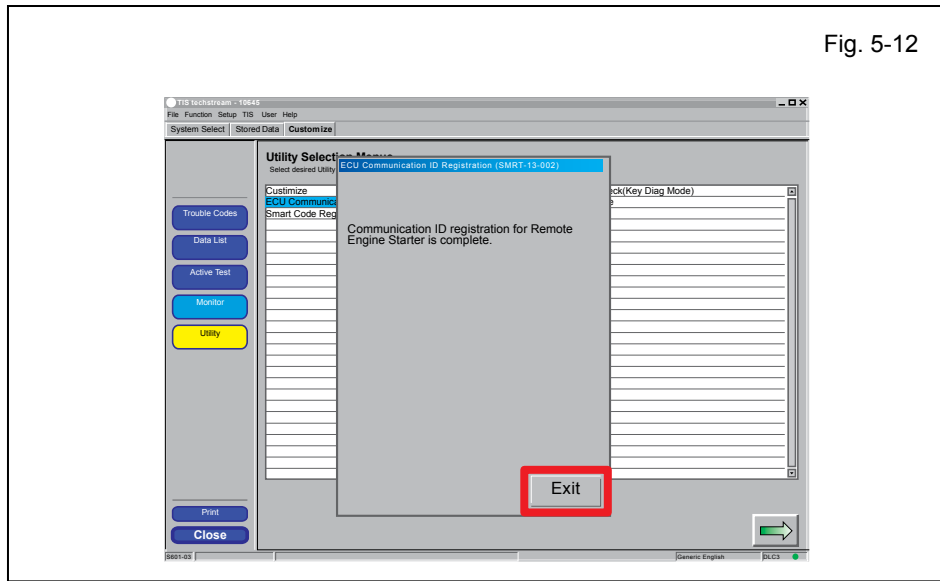
- r. Click on "Utility".
- s. Select "ECU Communication ID Registration".
- t. Click .



- u. Click "Next>".

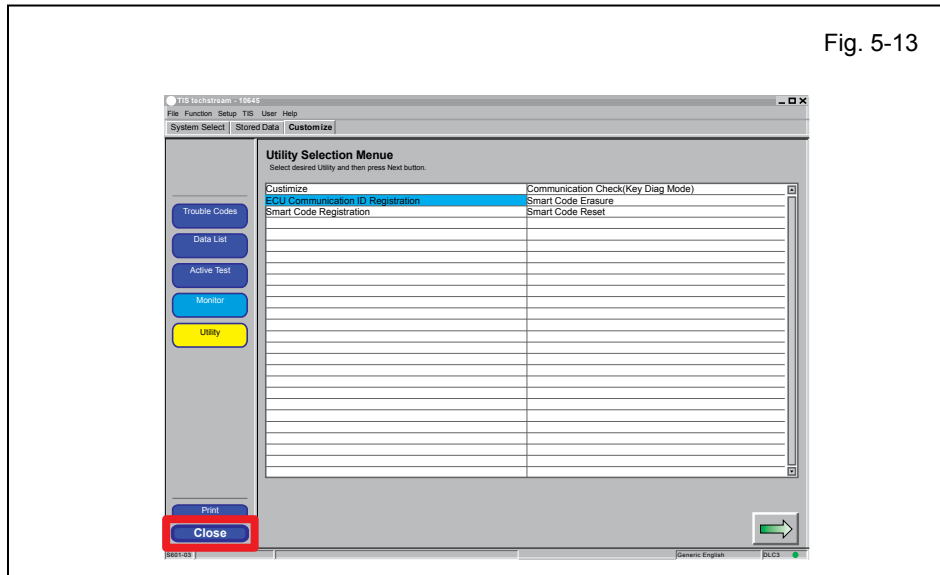


- v. Select "Remote Engine Starter".
- w. Click "Next>".

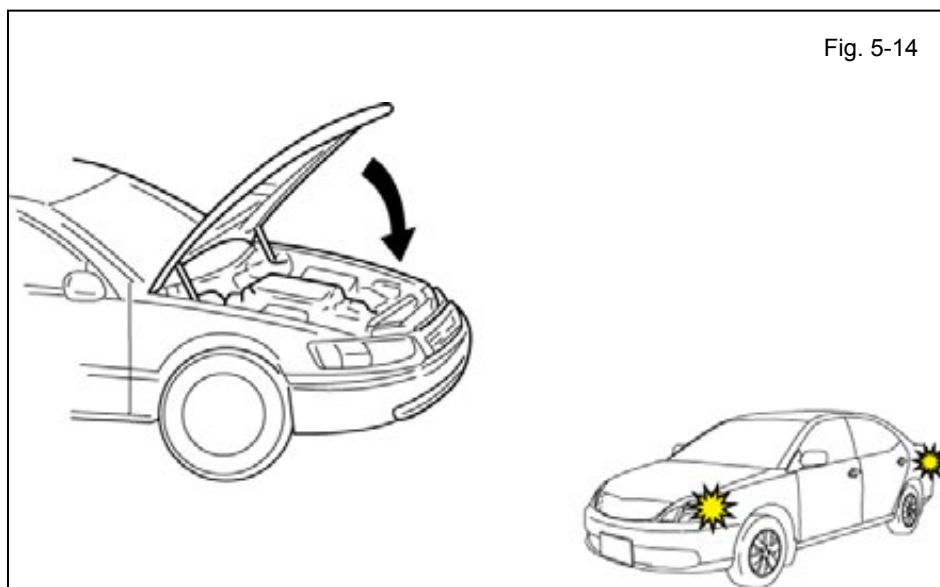


**CONFIRM:** That the ECU Communication ID was completed successfully.

x. Click "Exit".



y. Click .



- z. Exit the vehicle.
- aa. Close the Hood.
- ab. Look for the Hazard Lights to flash Twice, registration is completed.

**IF THIS PROCEDURE FAILED**

The Hazard Lights flash Three Times.

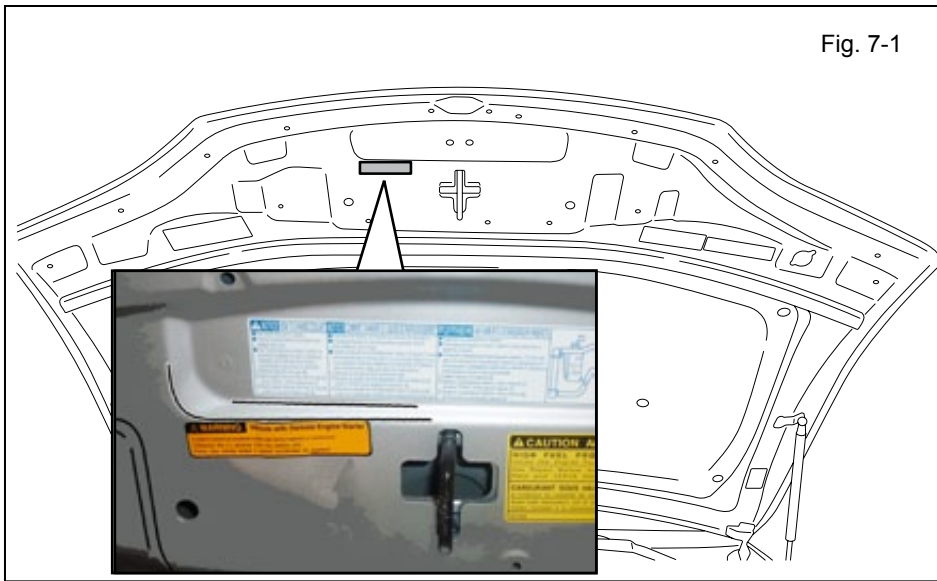
- Disconnect the V4 Harness's 1P RES Diagnostic Connectors.
- Start again from step c.



- ac. After a successful Registration, disconnect the 1P RES Diagnostic Connectors.
- ad. Secure the 1P RES Diagnostic Connectors to the Vehicle Harness using Electrical Tape.

- ae. Reinstall the Driver's Side Cowl Floor Carpet.



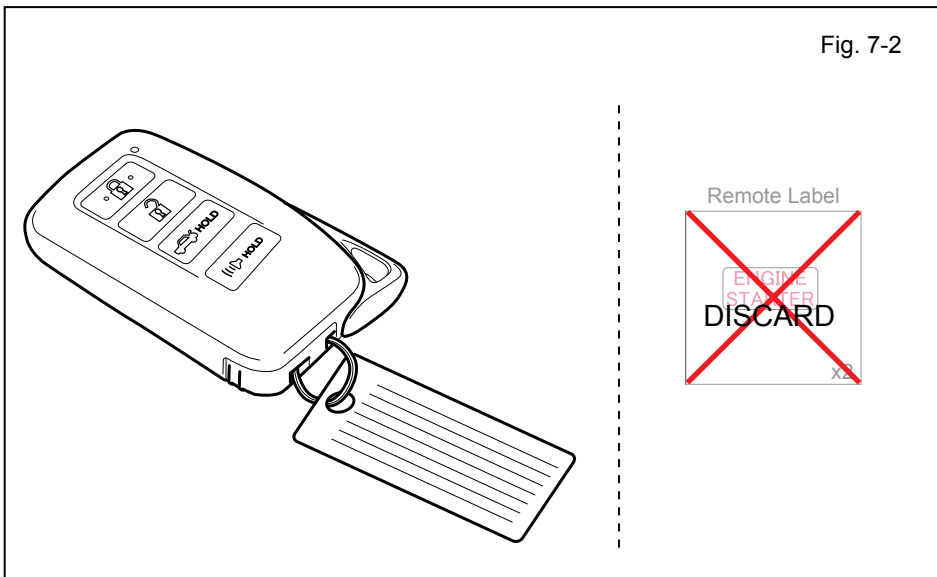


**7. Tag and Labels.**

- a. Using VDC approved cleaner and cleaning method, clean the area indicated in the Engine Compartment Cover.
- b. Attach the Engine Room Warning Label as shown.



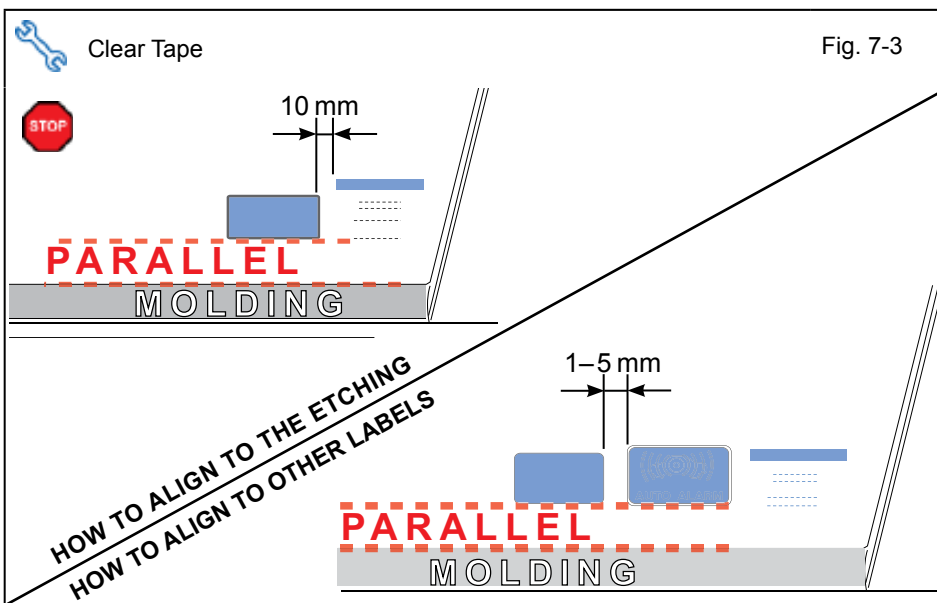
**CAUTION:** Do not touch the adhesive surface.



- c. Attach the Key Tag.

**REPEAT:** step c with the other Key.

- d. Discard the Remote Labels.



- e. Use Household Glass Cleaner to clean the inside of the Front Door Windows.
- f. Use a piece of Clear Tape to lift the Label off its protective backing.



**CAUTION:** Do not touch the adhesive surface.

- g. Attach the Label as shown.



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

**REPEAT:** steps e-g with the other Window.

### Accessory Function Checks

Close the hood, enter the vehicle and close all doors. Place the shift lever in the “P” (Park) position, set the parking brake and make sure the Vehicle is off.

	Perform	Look For
1	Press the remote control's lock button twice within 2 seconds, then press and hold the lock button for 3 seconds.	The hazard lights flash after 3 seconds. The engine starts. The hazard lights flash repeatedly for 10 seconds.
2	With the engine running, pull the hood release handle.  <b>NOTE:</b> <i>Wait 30 seconds before pulling the hood release handle for the Security Alarm to trigger.</i>	The engine stops. The hazard lights flash once. The security alarm triggers. (Only if equipped with OE Factory Alarm, not Genuine Accessory alarm, and only if armed)
3	Move the shift lever out of “P” (Park). Attempt to start the Vehicle using the remote.	The engine does not start.








**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"/> Trunk Release Switch (if equipped)

**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 Lights	<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)

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"/>	USB Connections (if equipped)
<input type="checkbox"/>	Steering Wheel Audio Control (if equipped)	<input type="checkbox"/>	Steering Wheel Heater (if equipped)
<input type="checkbox"/>	Front Windshield Defogger (if equipped)	<input type="checkbox"/>	Rear Window Defogger (if equipped)
<input type="checkbox"/>	Blind Spot Monitor (BSM) (if equipped)	<input type="checkbox"/>	HVAC
<input type="checkbox"/>	Side Mirror Defogger (if equipped)	<input type="checkbox"/>	Accessory Power Socket (if equipped)
<input type="checkbox"/>	Massage Seats (if equipped)	<input type="checkbox"/>	Heated/Vented Seats (if equipped)

<input type="checkbox"/>	Glove Box Light (if equipped)	<input type="checkbox"/>	Passenger Air Bag Switch (if equipped)
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<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
<input type="checkbox"/>	Glass Breakage Sensor (GBS) (if equipped)		

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