

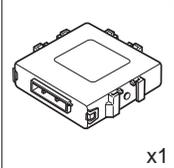
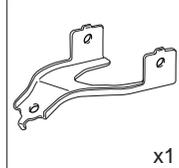
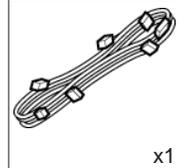
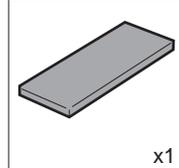
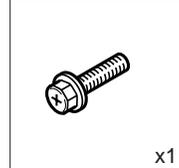
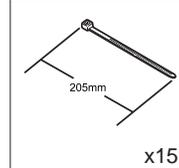
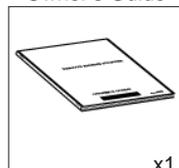
Part #: PT398-60110

NOTE: Part number of this accessory may not be the same as the part number shown.

Conflicts:

Do not install into Manual Transmission Vehicles or Vehicles without RKE system.

Kit Contents

| | | | | | | |
|--|---|--|---|---|---|---|
|  <p>RES ECU x1 PT398-0T090</p> |  <p>RES ECU Bracket x1</p> |  <p>RES Harness x1</p> |  <p>Foam Tape x1</p> |  <p>Bolt x1</p> |  <p>Wire Tie 205mm x15</p> |  <p>Remote Label ENGINE STARTER English x2 Spanish x2 (E) 08192-07820 (S) PT398-00070-CL</p> |
|  <p>Key Tag English x2 Spanish x2 (E) PT398-60086 (S) PT398-60087</p> |  <p>Window Label English x2 Spanish x2 (E) PT398-60088 (S) PT398-60089</p> |  <p>Engine Room Label English x1 Spanish x1 (E) PT398-00070-EL (S) PT398-00070-SL</p> |  <p>Owner's Guide x1</p> | | | |

Service Part #'s

Additional Items

(may be required)

| Item# | Description |
|-------|-------------|
| | |
| | |
| | |
| | |
| | |
| | |

Recommended Sequence of Application

| Item# | Description |
|-------|-------------------------------|
| 1 | TVIP V2 Glass Breakage Sensor |
| 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 | |
| Installation Tools | |
| Screwdriver | #2 Phillips |
| Nylon Panel Removal Tool | e.g. Panel Pry Tool #1 SST# 00002-06001-01 |
| Side Cutters | |
| Torque Wrench | Battery: 36 in•lbf (4.07 N•m), Passenger's Knee Airbag: 88.5 in•lbf (10 N•m) |
| Tape | Clear, Electrical, Protective |
| Socket | 10mm, extension |
| Pliers | Needle Nose |
| Wrench | 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.

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.

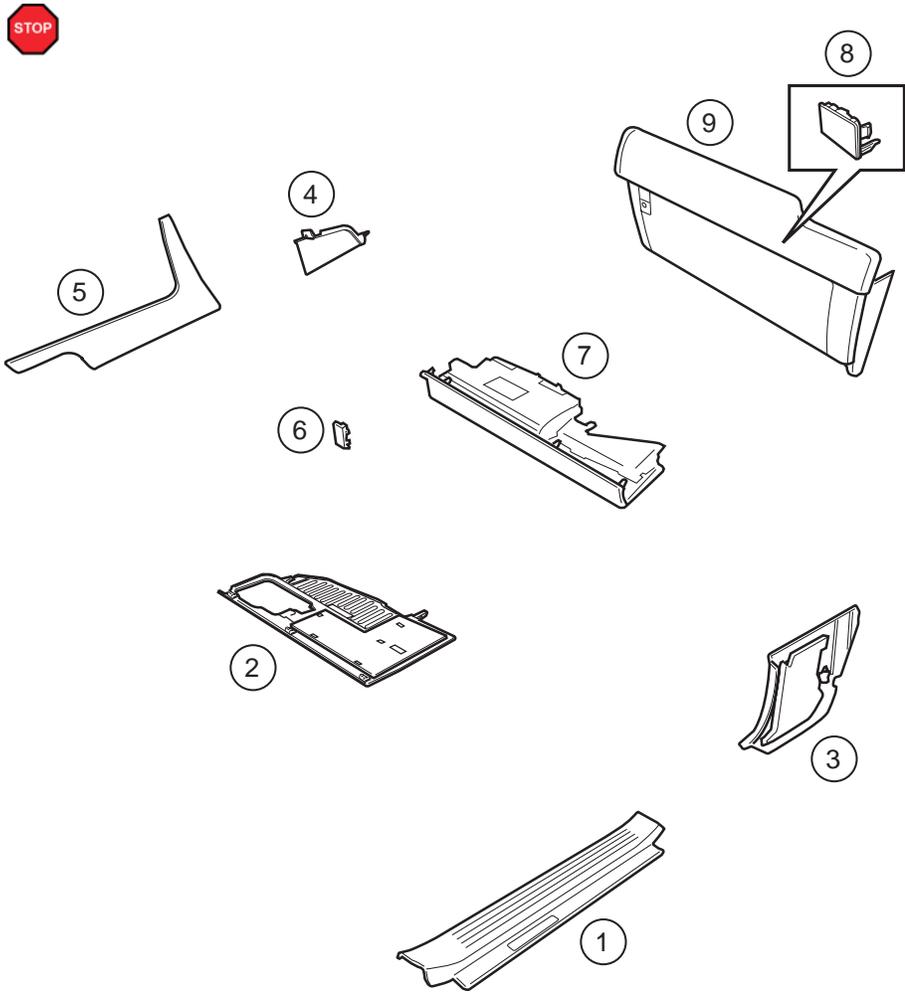
These guidelines can be found in the “Accessory Installation Practices” document.

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.

Disassembly Overview



| | |
|---|------------------------|
| 1 | PS Step Cover |
| 2 | Glovebox Under Cover |
| 3 | PS Cowl Cover |
| 4 | Console Box Panel |
| 5 | Instrument Lower Panel |
| 6 | Airbag Side Cover |
| 7 | PS Knee Airbag |
| 8 | Screw Cover |
| 9 | Glovebox |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

STOP Disconnect all Corresponding Connectors.

- 1. Vehicle Disassembly**
- a. Place the Vehicle in Park with the Parking Brake set.
 - b. Disconnect the Negative Battery Terminal.
 - Protect the Fender.
 - Note the Battery Cable Position as it will be re-installed in the same position.

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

- c. Remove the Passenger's Side Step Cover.



- Use the Protective Tape to protect the vehicle panels while performing the following procedures.



CAUTION: Do not pry from the outside edge of the Step Cover as this may damage the Metal Plate.



CAUTION: Avoid damaging the connector.

- e. Remove the Passenger's Side Cowl Cover.
 - Remove 1 Nut.



NOTE: The Metal Clip may be difficult to remove. Re-secure it to the Vehicle if it comes off.

- f. Remove the Passenger's Side Console Box Panel.

- g. Remove the Passenger's Side Instrument Lower Panel.

- h. Remove the Passenger's Side Knee Airbag Side Cover.

- i. Dislodge the Passenger's Side Knee Airbag.

- Remove 3 Bolts.



CAUTION: Do not disconnect the Vehicle's Connector.

- j. Wrap the Airbag.
- k. Temporarily place the Knee Airbag on any object that will prevent stress on the Airbag Wire.

l. Remove 2 Bolts from the Glovebox.

m. Remove 3 Screws from the Glovebox.

- Open the Glovebox.
- Remove 3 Screw Covers.

n. Dislodge the Glovebox.



- o. Remove the Glovebox Lamp and Harness from backside of the Glovebox.
 - Remove 2 Harness Clamps.



CAUTION: Do not break the Glovebox Lamp.

- p. Temporarily install the Passenger's side Knee Airbag.



Fig. 2-1

2. RES ECU Installation

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

- b. Cut 1 Foam Tape in half.
- c. Apply the 2 half pieces of the Foam Tape to the RES ECU as shown.

- d. Put a Bolt in the hole of the RES ECU Bracket.
- e. Position the RES ECU Bracket and Bolt with one hand.
- f. Pass the Screwdriver through the hole in the Brace, and temporarily install the RES ECU.



- Do not over-tighten the Bolt.

- g. Using the Wrench secure the RES ECU.
 - Tighten the Bolt.

- c. Route the V4 Harness behind the Vehicle Harness as shown.



VERIFY: That the V4 Harness is positioned as shown.

- d. Secure the V4 Harness to the Vehicle Harness with 1 Wire Tie.
- e. Using 1 Wire Tie secure the V4 Harness to the Vehicle Brace as shown.

- f. Using 1 Wire Tie secure the V4 Harness to the Vehicle Brace as shown.

- g. Route the V4 Harness as shown.
 - For Vehicles with a Blue 2P Connector disconnect the connector while routing and then reconnect.

- h. Secure the V4 Harness to the Vehicle Harness with 2 Wire Ties.



- i. Locate the Vehicle's White 6P Pre-connector behind the Passenger's Side Connector Block area.
- j. Connect the V4 Harness's White 6P Connector to the Vehicle's 6P Pre-connector.

- k. Secure the 6P Connectors to the Vehicle Harness with 1 Wire Tie.

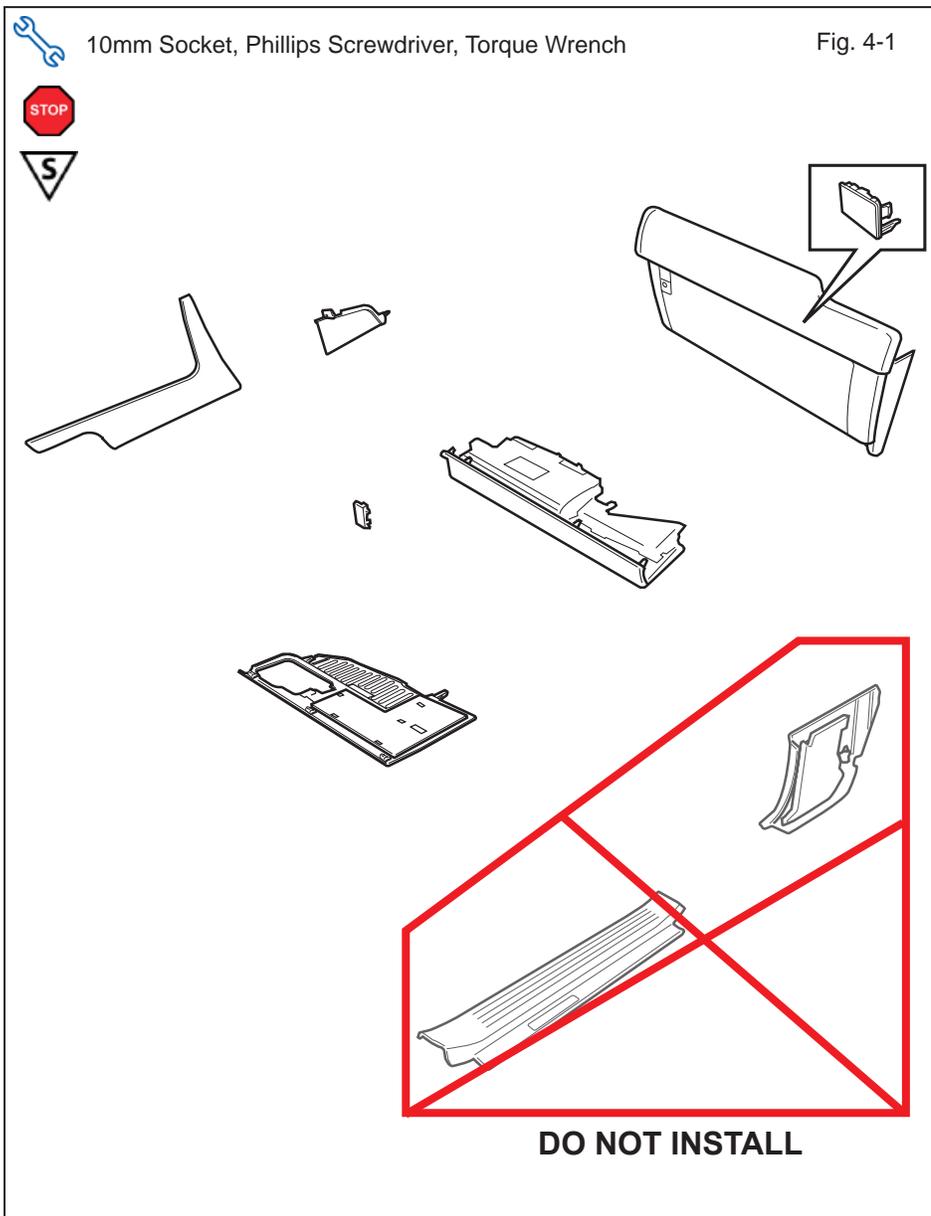


- Position the 6P Connector behind the Vehicle Harness as shown.



CAUTION: Route the Wire Tie between the Vehicle Harness and the Windshield Fluid Hose.

- l. Secure the V4 Harness to the Vehicle Harness with 2 Wire Ties.



4. Registration Preparation

a. Reassemble the Vehicle.

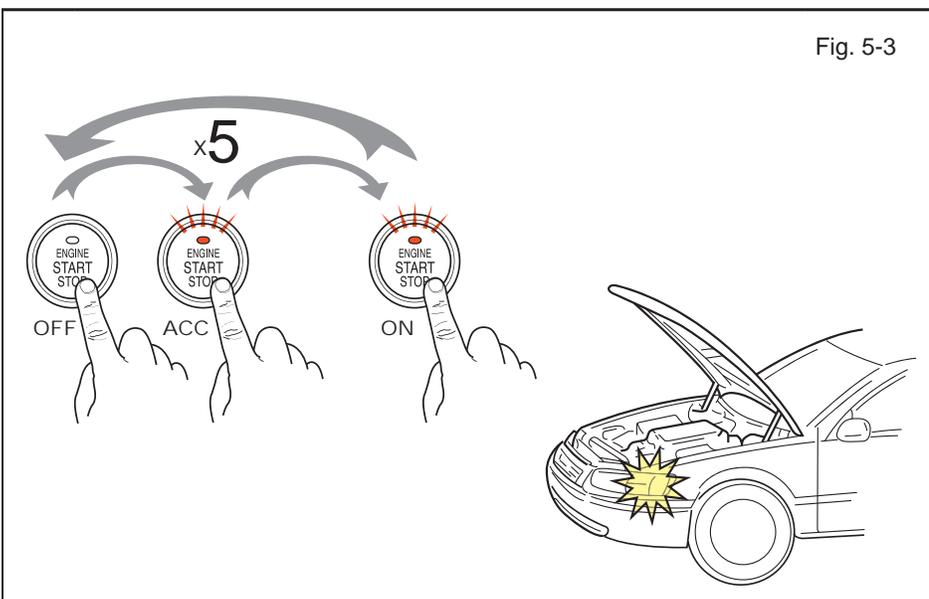
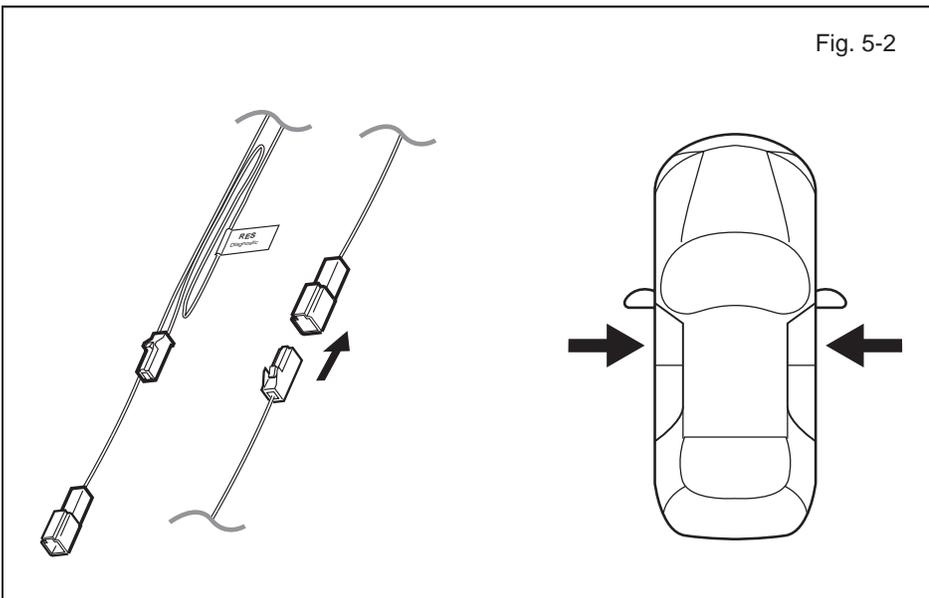
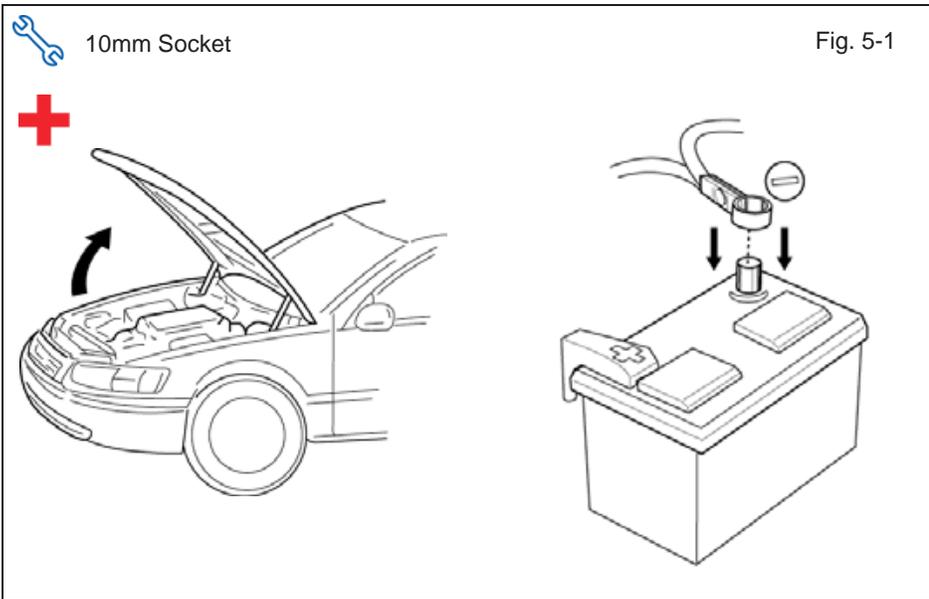
S **NOTE:** When reinstalling Knee Airbag, make sure to tighten the Bolts to 88.5 in•lbf (10 N•m).

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

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

b. Verify that the Short Pin is Installed.

- If not install now.



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 Passenger's Side Cowl Area and connect them.

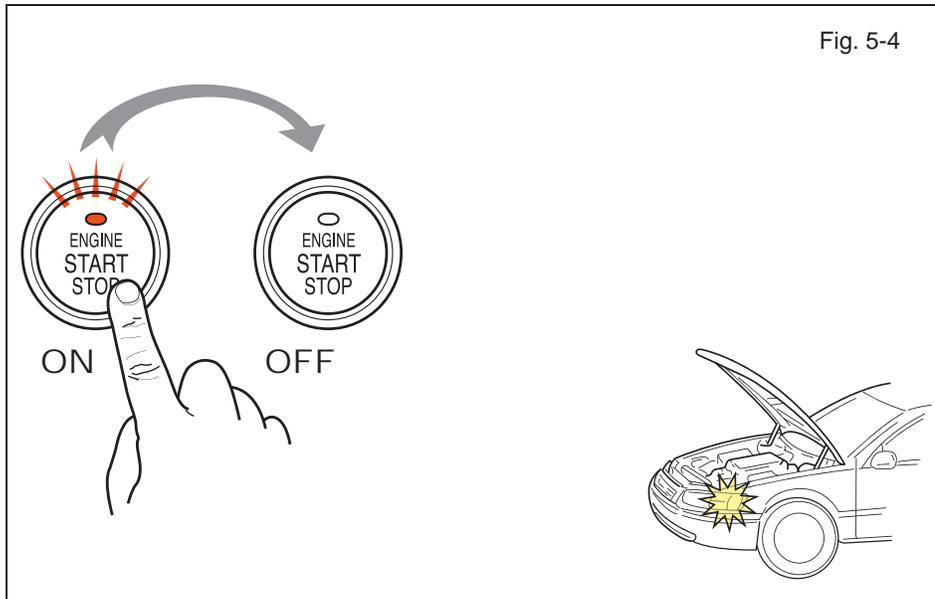
NOTE: Once connected you will have 10 minutes to complete this section, steps d–x.

- Close all doors.

- Place the Vehicle in Park (P) or Neutral (N) position.
- With the Remote Control Key in your possession, 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.

LOOK: For the Hazard Lights to Flash Once.



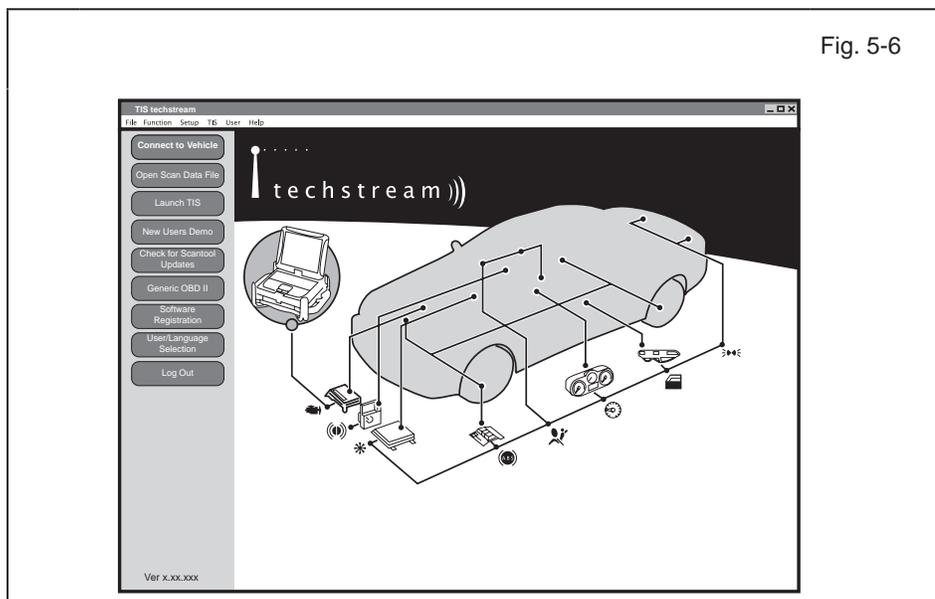
- g. Start the Engine.
- h. After 10 seconds stop the Engine.

LOOK: For the Hazard Lights to flash Once.

IF THIS PROCEDURE FAILED

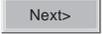
The Hazard Lights flash Three Times.

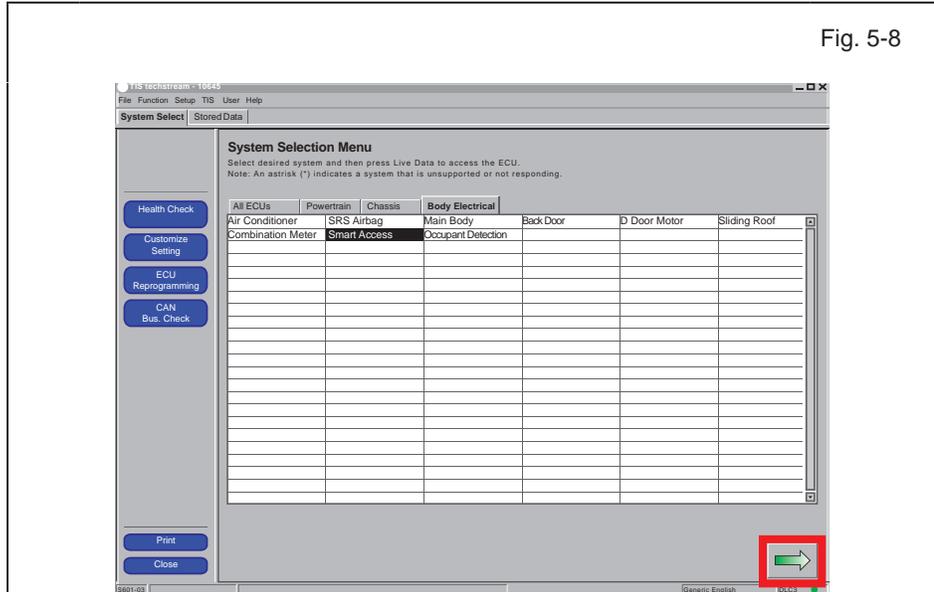
- Disconnect the V4 Harness's 1P RES Diagnostic Connectors.
 - Start again from step c.
- i. Connect the Techstream Notebook to the Vehicle's Diagnostic Port.
 - j. With the Remote Control Key in your possession, press the Engine Start Stop Button twice to select the Ignition "ON" position.



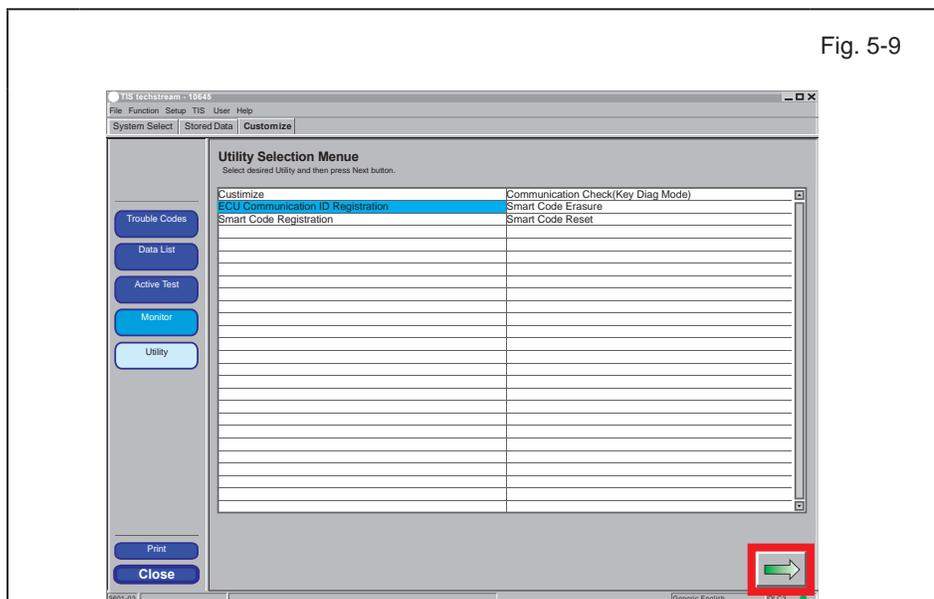
- k. Start the TIS Techstream Application by clicking on the shortcut located on the Desktop.

- l. Click  .

- 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. Select w/ KDSS.
- p. Click  .



- q. Select "Smart Access."
- r. Click  .



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

v. Click "Next>."

w. Select "Remote Engine Starter."

x. Click "Next>."

CONFIRM: That the ECU Communication ID was completed successfully.

y. Click "Exit."

IF THIS PROCEDURE FAILED

- Start again from step m.



- z. Click 

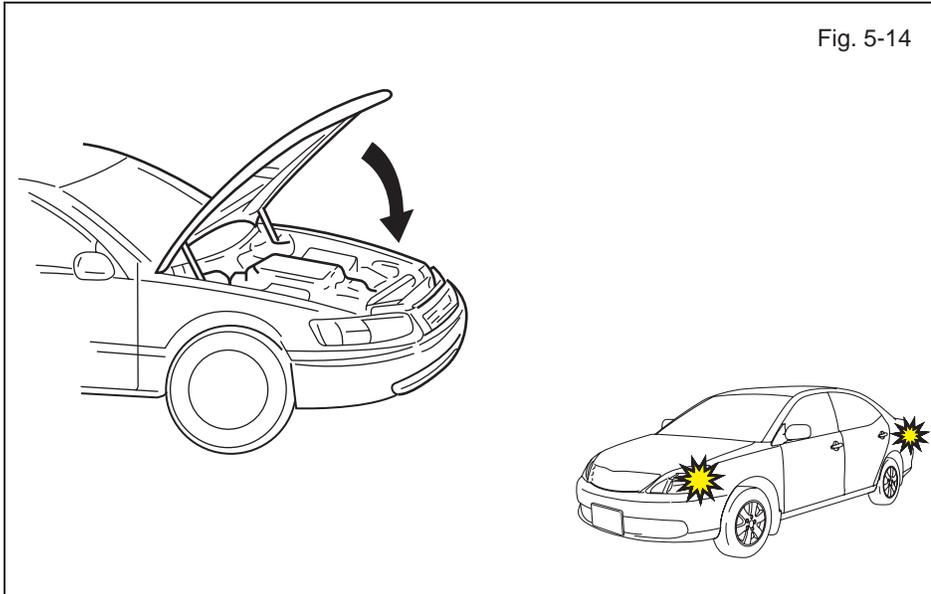


Fig. 5-14

- aa. Exit the vehicle.
ab. Close the Hood.
ac. Look for the Hazards to flash Twice.

IF THIS PROCEDURE FAILED

The Hazard Lights flash Three Times.

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

- ad. After a successful Registration, disconnect the 1P RES Diagnostic Connectors.
ae. Using Electrical Tape secure the 1P Connectors to the V4 Harness.

- af. Using the Electrical Tape secure the 1P Connectors to the Vehicle Harness.
- ag. Secure the V4 Harness to the Vehicle Harness with 1 Wire Tie.

6. Tags and Labels

- 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. Using VDC approved cleaner and cleaning method, clean the area indicated on the Underside of the Hood.
 - b. Attach the Engine Room Warning Label as shown.



CAUTION: Do not touch the adhesive surface.

- c. Using VDC approved cleaner and cleaning method, clean the indicated area on the key.
- d. Use a piece of Clear Tape to lift the label off its protective backing.



CAUTION: Do not touch the adhesive surface.

- e. Attach the Key Label as shown.
- f. Attach the Key Tag.

REPEAT: steps c–f with the other Key.

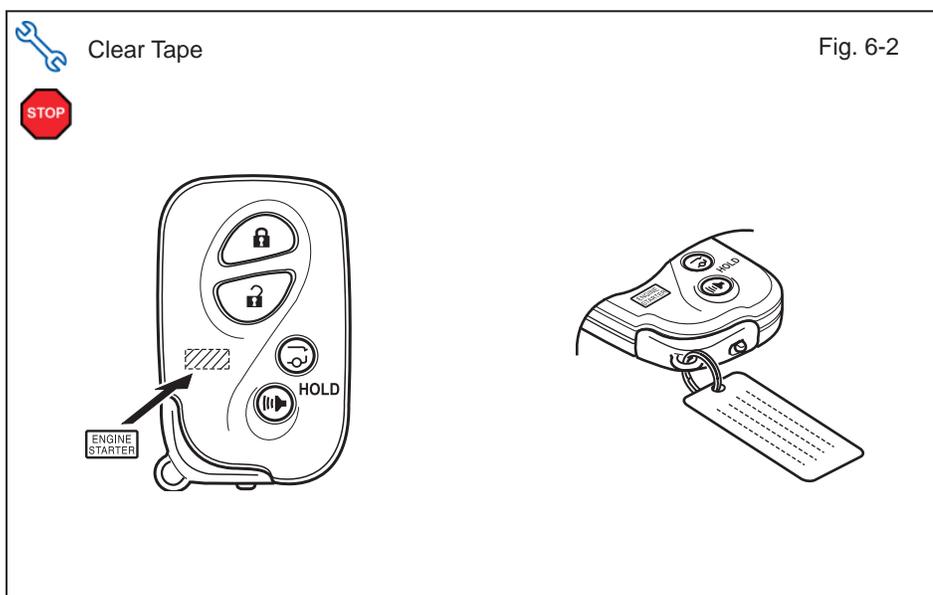


Fig. 6-2

- g. Use Household Glass Cleaner to clean the inside of the Front Door Windows.
- h. Use a piece of Clear Tape to lift the Label from the protective backing.



CAUTION: Do not touch the adhesive surface.

- i. Attach the Label as shown.



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

REPEAT: steps g–i with the other Window.

7. Complete the Installation

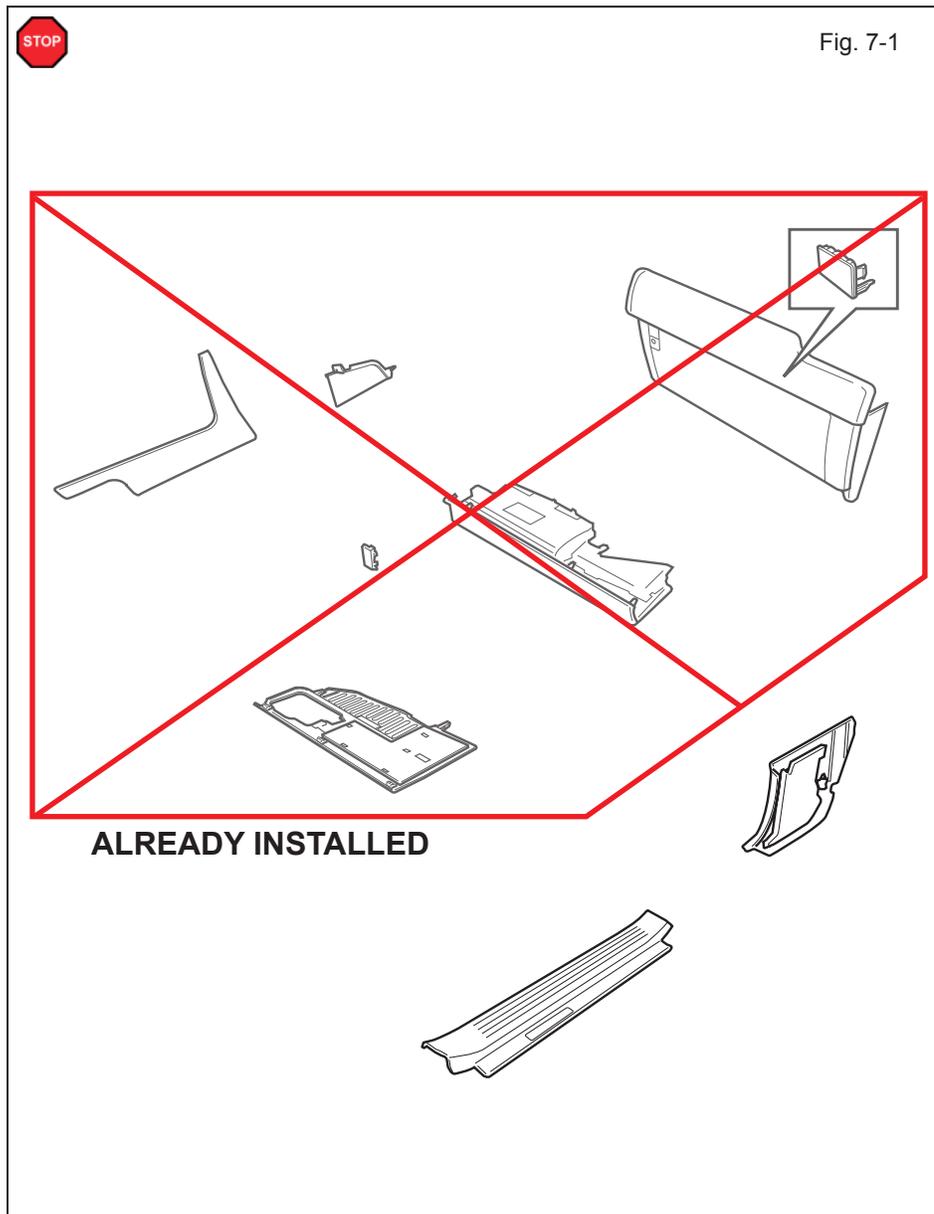
- a. Finish reassembling the Vehicle.



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



VERIFY: That all Connectors are plugged in.



- b. Position the Negative Battery Cable at the original factory position.
 - Tighten the Nut to 36 in•lbf (4.07 N•m)



CAUTION: Do not touch the positive terminal.

- c. Clean up and remove trash.
- d. Sealed in its protective bag, place the Owner's Guide in the Glovebox.
- 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.
- f. Reset the Moon Roof.
 - 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

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 20 seconds. |
| 2 | With the engine running, pull the hood release handle. | The engine stops. The hazard lights flash once. The security alarm triggers. (if equipped) |
| 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 | |

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) |

| Function | | Function | |
|--------------------------|--|--------------------------|---|
| <input type="checkbox"/> | Power Sliding Door (if equipped) | <input type="checkbox"/> | Rear Sunshade (if equipped) |
| <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 |

