

**Part Number: PT398-50180**

**Conflicts**

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**Recommended Sequence of Application**

Item#	Quantity	Description

**Kit Contents**

Item#	Quantity	Description
1	1	GBS ECU 08190-0C820
2	1	GBS Wire Harness

**Hardware Bag Contents**

Item#	Quantity	Description
1	1	GBS ECU Bracket
2	2	Foam Tape
3	10	Wire Ties
4	1	M6 NUT
5	1	GBS Microphone 08192-6C810
6	2	GBS Window Label English PT398-60084-AA
7	2	GBS Window Label Spanish PT398-60085-AA
8	1	GBS 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	
<b>Special Tools</b>	
Striker Tool	CAD-E IADS P/N LS 18-0004
<b>Installation Tools</b>	
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	Clear
Pliers	45° Angled Needle Nose
Utility Knife	
Offset Wrench	10mm
Socket	10mm, extension
<b>Special Chemicals</b>	
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.

 **PREVIOUS WIRE TIE LOCATION:** This mark indicates a previously installed Wire Tie.

**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.

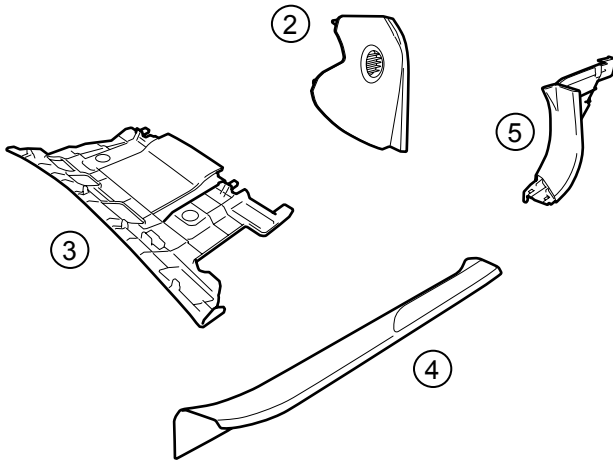
**Table of Contents**

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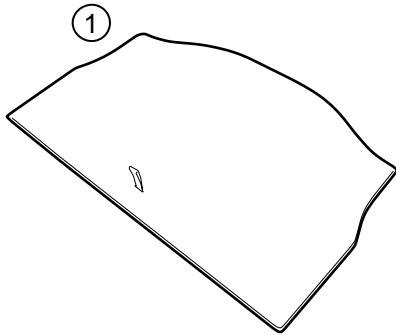
- I. Preparation ..... 1–3
  - 1. Table of Contents ..... 2
  - 2. Wire Routing Overview ..... 3
- II. Procedure ..... 4–14
  - 1. Vehicle Disassembly. .... 4
  - 2. GBS ECU Preparation. .... 6
  - 3. GBS ECU and Harness Installation. .... 8
  - 4. Microphone Installation. .... 11
  - 5. Complete the Installation. .... 13
- III. Checklist ..... 15–17
  - 1. Accessory Function Checks..... 15
  - 2. Vehicle Appearance Check ..... 15
  - 3. Vehicle Function Checks..... 16-17



Disassembly Overview



VEHICLE INTERIOR(PASSENGER'S SIDE)  
LUGGAGE COMPARTMENT



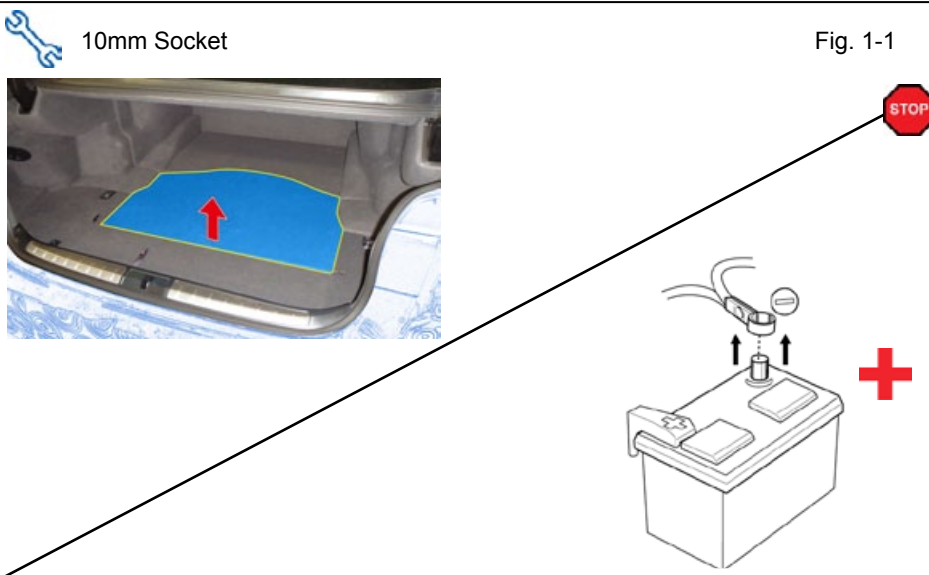
1	Luggage Board
2	Glove Box's Side Cover
3	PS Under Cover
4	PS Step Cover
5	PS Cowl Cover

1. Vehicle Disassembly.

- Place the Vehicle in Park with the Parking Brake set.
- Remove the Luggage Board.
- 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.

**STOP** CAUTION: After disconnecting battery, do not close Trunk.



d. Remove the Glove Box's Side Cover.

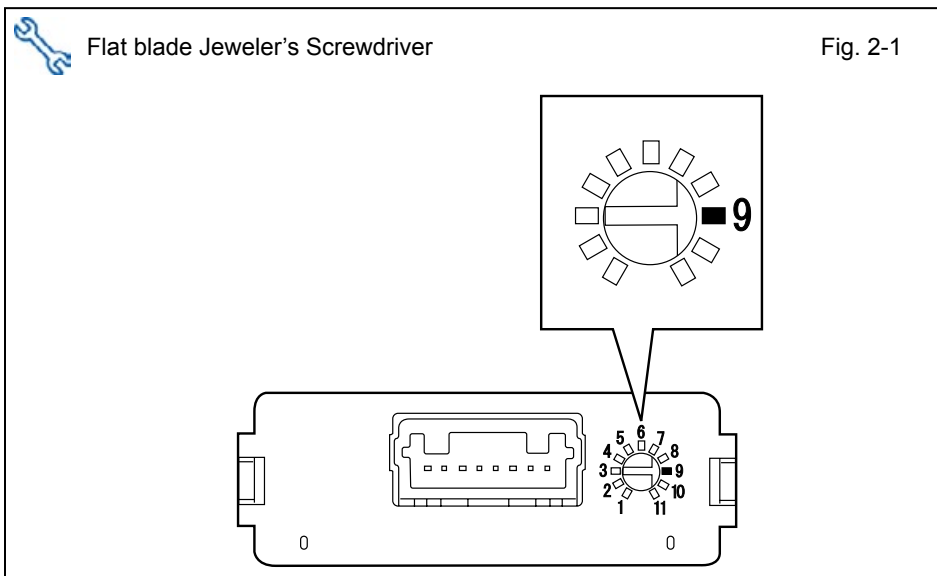
e. Dislodge the Passenger Side Under Cover.

f. Disconnect the Passenger Side Under Cover Connector.  
g. Remove the Passenger Side Under Cover.

- h. Remove the Passenger Side Step Cover.

- i. Remove the Passenger Side Cowl Cover.

- Remove the Nut.



## 2. GBS ECU Preparation.



**CAUTION:** The front side windows must be between 60F & 109F (15.5C & 43C) to prevent potential damage from striker tool.

- a. Set the GBS Sensitivity Value to "9".

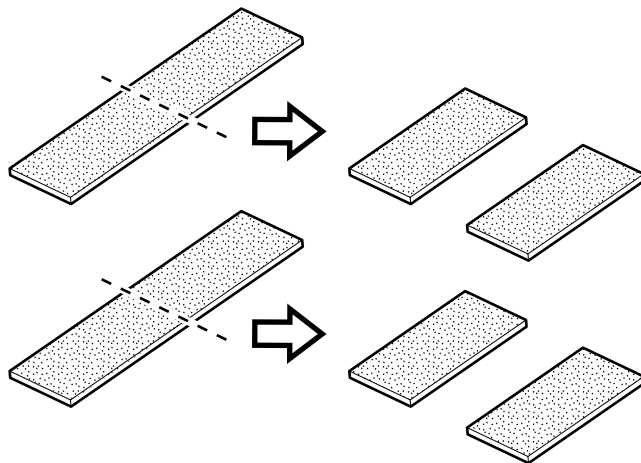
Fig. 2-2



- b. Attach the GBS ECU Bracket to the GBS ECU as shown.

 Utility Knife

Fig. 2-3



- c. Cut the 2 Foam Tapes in half.

Fig. 2-4



- d. Attach 1/2 Foam Tape to the GBS ECU as shown.

### 3. GBS ECU and Harness Installation.

- a. Route the GBS Harness 8P Connector behind the Vehicle's Brace.

- b. Connect the GBS Harness White 8P Connector to the GBS ECU.

- c. Install the GBS ECU using the supplied Nut.
- d. Rotate GBS ECU toward the rear of the Vehicle.



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



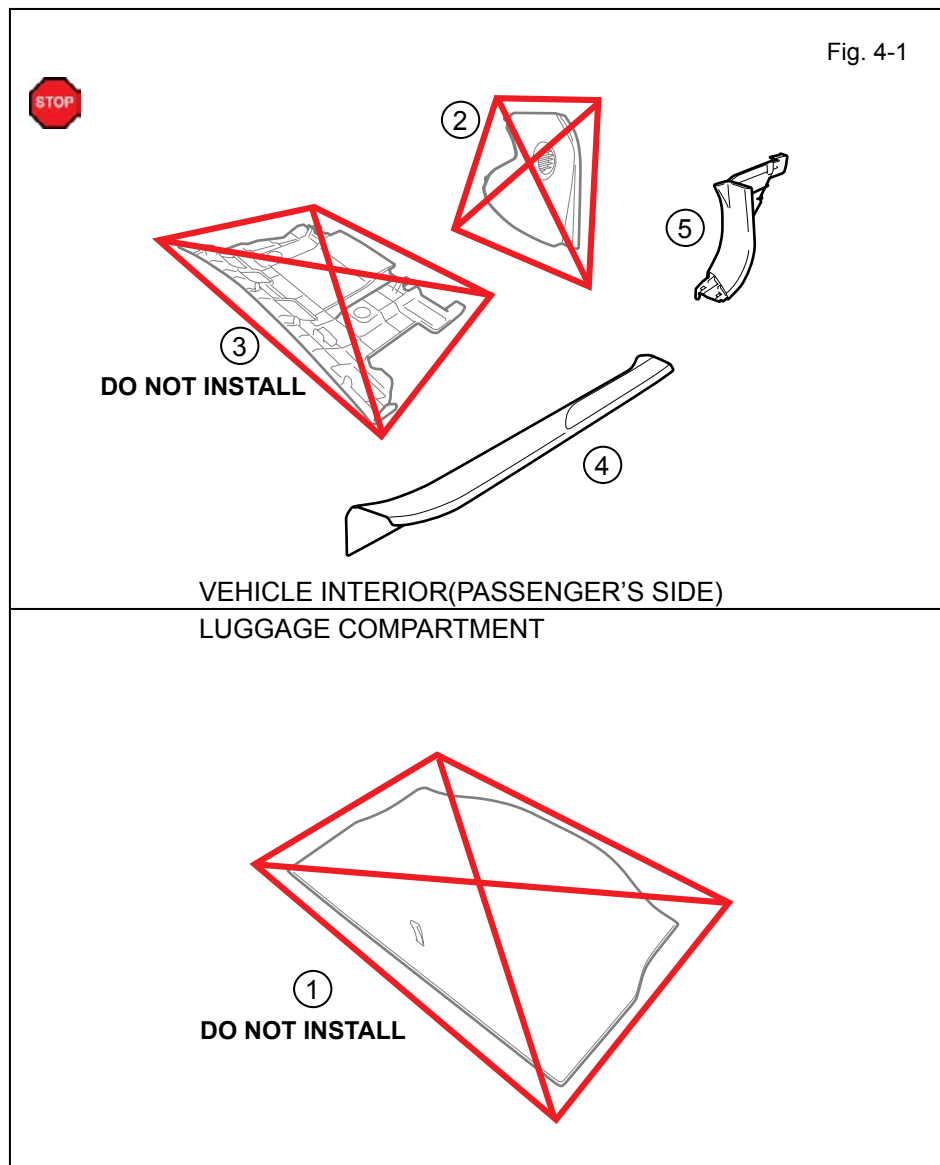
- e. Secure the GBS Harness's White Tape Marker to the Vehicle Harness using 1 Wire Tie.
- f. Route the GBS Harness branch with 10P Connector down toward the passenger side Cowl Area.

- g. Secure the GBS Harness branch with 10P Connector to the Vehicle Harness using 2 Wire Ties.

- h. Connect the GBS Harness White 10P Connector to the Vehicle's 10P Connector as shown. 10P Connector tab is on inboard side of vehicle.





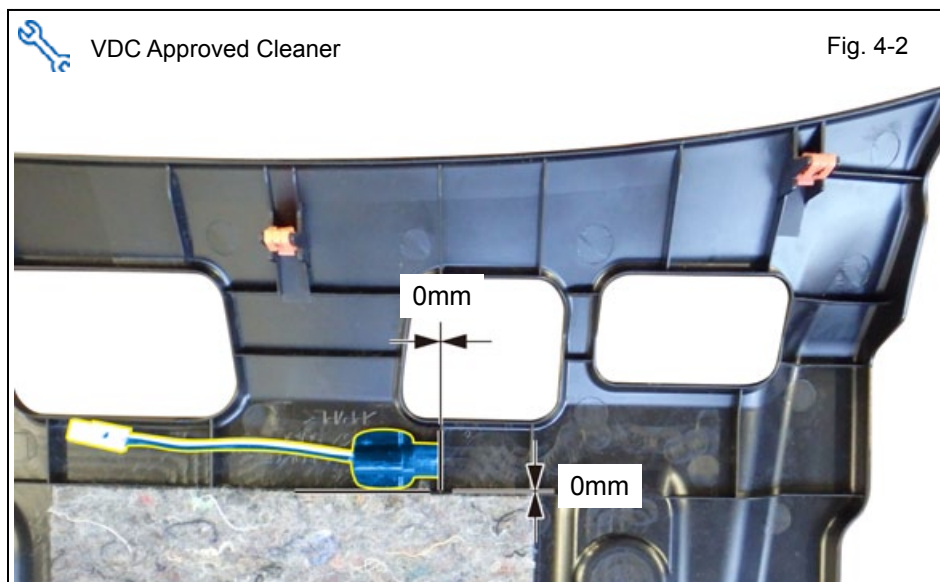


**4. Microphone Installation.**

- a. Reassemble the Vehicle except for the Under Cover and Glove Box's Side Cover.



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

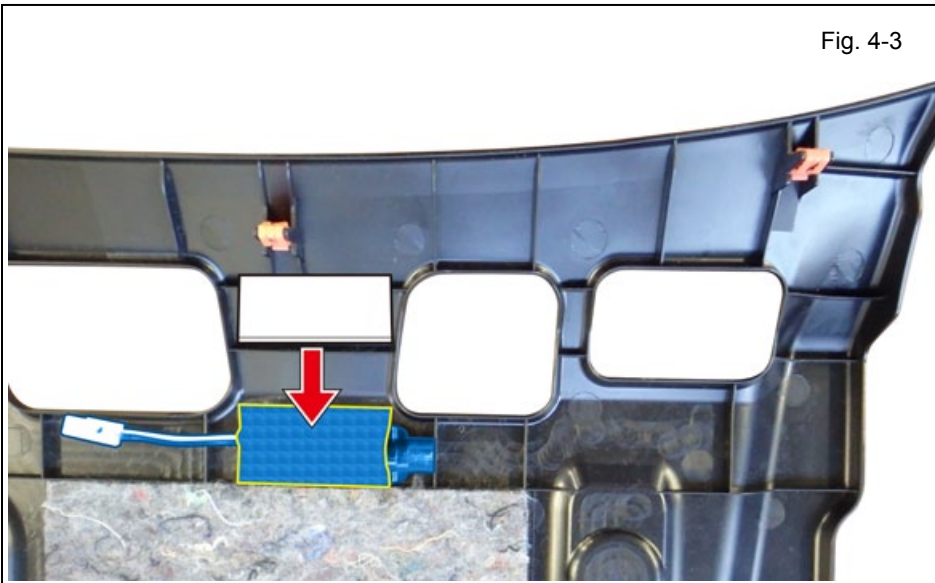


- b. Using the VDC approved cleaner and cleaning method, clean the area indicated on the backside of the Under Cover.
- c. Attach the GBS Microphone to the backside of the Under Cover as shown.



**NOTE:** Make sure to align GBS Microphone to the edge of the Under Cover ribbing.

Fig. 4-3



- d. Apply the 1/2 Foam Tape to the GBS Microphone as shown.



**NOTE:** Make sure not to cover the Microphone's opening with the Foam Tape.

- e. Connect the GBS White 2P Connector to the GBS Microphone's Connector.
- f. Reconnect the Foot Lamp connector to the under cover.
- g. Secure the GBS Harness to the Under Cover using 1/2 Foam Tape as shown.

- h. Reinstall the Under Cover and Glove Box's Side Cover.



**CAUTION:** Ensure weather stripping is fully outboard before reinstalling Under Cover and Glove Box's Side Cover.

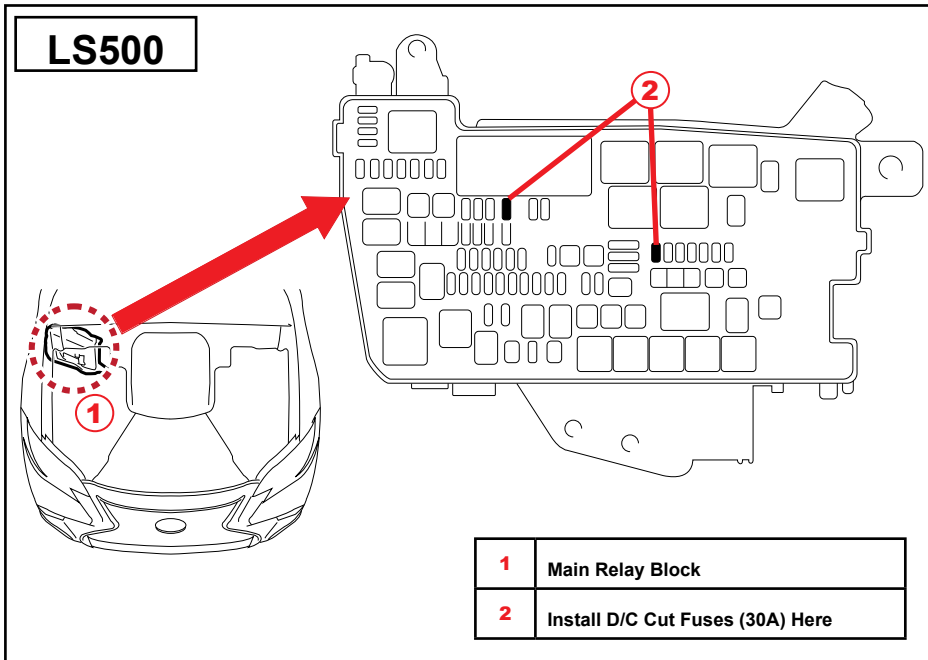


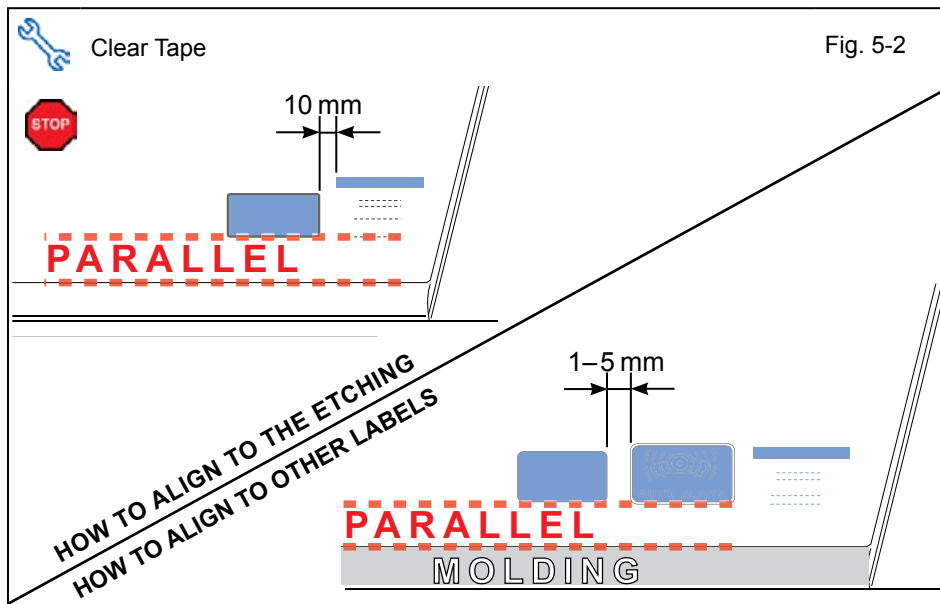
**5. Complete the Installation.**

- a. Verify that the two 30 Amp D/C Cut Fuses are installed.
  - If not, install now.



<b>1</b>	Main Relay Block
<b>2</b>	Install D/C Cut Fuses (30A) Here





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



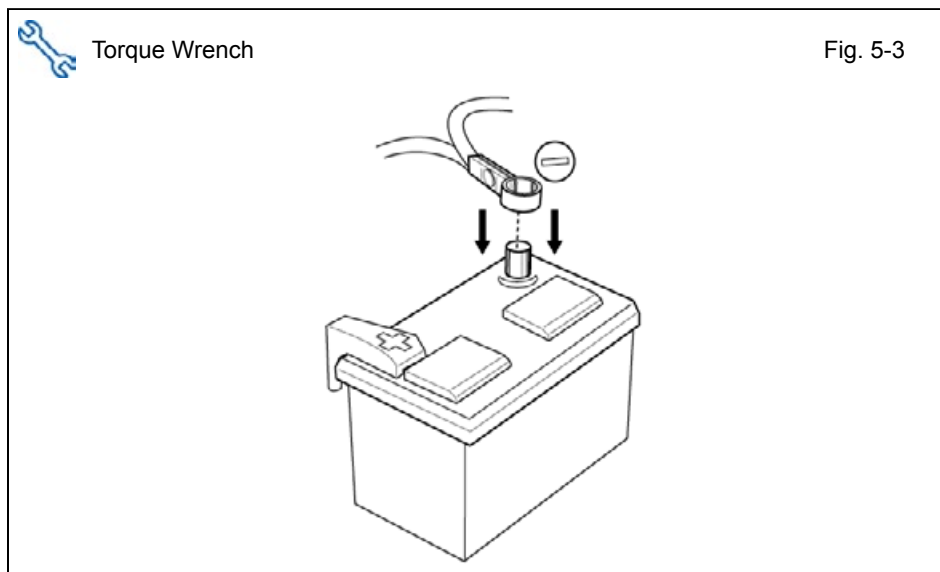
**CAUTION:** Do not touch the adhesive surface.

- d. Attach the Label as shown.



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

**REPEAT:** steps d-f with the other Window.



- e. Position the Negative Battery Cable at the original factory position.



**Torque: 5.4 N•m (48 in•lbf)**



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

- f. Clean up and remove trash.
- g. Sealed in its protective bag, place the Owner's Guide in the Glove Box.

**Accessory Function Checks**

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



**NOTE:** Ensure trunk and hood are closed before performing strike test.



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

Perform		Look For
1	Lock the doors 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.

Perform the following check in a temperature controlled environment (60° - 109°F)

3	With the tip of a key, or Striker Tool pulled all the way out (PPO only), tap the center of the driver’s door windows to trigger the alarm. Repeat test on passenger side window. <b>NOTE:</b> Only strike the outside surface of the Window.	The horn sounds repeatedly. The headlights flash repeatedly. The turn signal lights flash repeatedly. The Security LED lights up.
4	Press the unlock button on the smart key to stop the alarm.	The horn stops sounding. All the lights stop flashing and/ or turn off. The Security LED lights up.



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 still does not trigger during the section 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
<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
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**Enter the Vehicle**

<input type="checkbox"/> Dome/Courtesy Lights	<input type="checkbox"/> Illuminated Door Sill (if equipped)
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**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)	<input type="checkbox"/> Power Back Door/Hatch (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)



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"/>	HVAC
<input type="checkbox"/>	Front Windshield Defogger (if equipped)	<input type="checkbox"/>	Rear Window Defogger (if equipped)
<input type="checkbox"/>	Side Mirror Defogger (if equipped)	<input type="checkbox"/>	Accessory Power Socket (if equipped)
<input type="checkbox"/>	Horn	<input type="checkbox"/>	Heated/Vented Seats (if equipped)
<input type="checkbox"/>	Glove Box Light (if equipped)	<input type="checkbox"/>	Trunk or Back Door/Hatch Cancel Switch (if equipped)
<input type="checkbox"/>	Passenger Side Foot Lamp		
<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 two 30A D/C Cut Fuses after Function checks.**

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

