Conflicts:

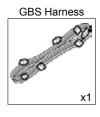
Do not install into Vehicles without Factory Alarm System.

Kit Contents

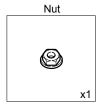
GBS ECU

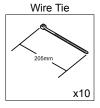














Window Label





Service Part #'s

Additional Items

(may be required)

Item#	Description

Recommended Sequence of Application

Item#	Description
1	V2 GBS
2	V4 RES or V9 RES+

Recommended Tools

Personal & Vehicle Protection	Description		
Safety Glasses			
Safety Gloves	(Optional)		
Vehicle Protection	Blankets, Parts Boxes		
Special Tools			
GBS 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 SST# 00002-06001-01		
Side Cutters			
Torque Wrench	Battery: 48 in•lbf (5.4 N•m),		
	Passenger's Knee Airbag: 88.5 in•lbf (10 N•m)		
Tape	Clear, Electrical, Protective		
Socket	10mm, Extension, 10mm Deep		
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



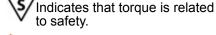
Use caution to avoid injury.



Used in Figures to call attention to specific tools recommended for the process.



Highlights a change in installation with respect to previous issue.





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.

LEXUS





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.

d. 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.

- f. 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.

g. Remove the Passenger's Side Console Box Panel.

h. Remove the Passenger's Side Instrument Lower Panel.

 Remove the Passenger's Airbag Side Cover.

- j. Dislodge the Passenger's Side Knee Airbag.
 - · Remove 3 Bolts.



CAUTION: Do not disconnect the Vehicle's Connector.

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

m. Remove 2 Bolts from the Glovebox.

- n. Remove 3 Screws from the Glovebox.
 - · Open the Glovebox.
 - Remove 3 Screw Covers.

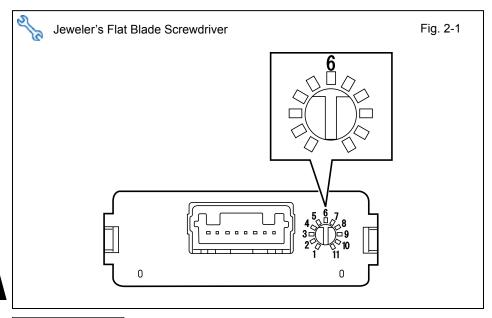
o. Dislodge the Glovebox.

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



CAUTION: Do not break the Glovebox Lamp.

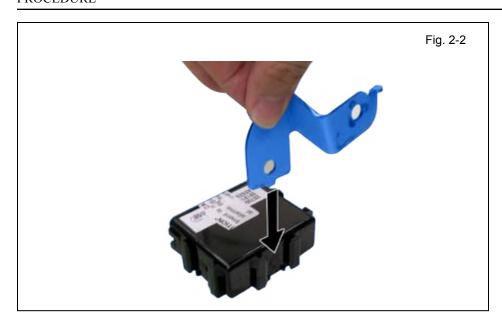
q. Temporarily install the Passenger's Side Knee Airbag.



2. GBS ECU Preparation and Installation

a. Set the GBS sensitivity value to "6".

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b. Attach the GBS ECU Bracket to the GBS ECU.

TVIP V2

- c. Install the GBS ECU using the supplied Nut.
 - Tighten 1 Nut.

3. V2 Harness Installation

a. Connect the V2 White 8P Connector to the GBS ECU.

b. Route the V2 Harness as shown.

c. Secure the V2 Harness to the Vehicle Brace with 2 Wire ties.

- d. Secure the V2 Harness to the Vehicle Brace with 1 Wire Tie.
- e. Route the V2 Harness as shown.
- f. Secure the V2 Harness to the Vehicle Harness with 2 Wire Ties.

V2 ONLY

- g. Locate the Vehicle's White
 4P Pre-connector in the
 Passenger's Side Connector
 Block area.
- h. Remove the Tape securing the Vehicle's White 4P Preconnector.

- i. Connect the V2 Harness's 4P Connector to the Vehicle's 4P Pre-connector.
- j. Secure the 4P Connectors to the Vehicle Harness with 1 Wire Tie.

V2/V4 ADD-ON ONLY

k. Cut the Wire Tie Securing the V4 Harness to the Vehicle Harness in the Passenger's Side Connector Block Area.



CAUTION: Do not cut any of the Vehicle's Wires.

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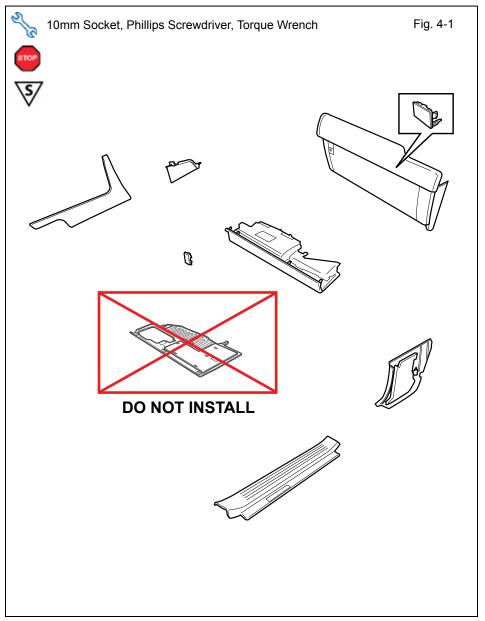
V2/V4 ADD-ON ONLY

- Locate the Vehicle's White 4P Pre-connector in the Passenger's Side Connector Block area.
- m. Remove the Tape securing the Vehicle's White 4P Pre-connector.

n. Connect the V2 Harness's4P Connector to the Vehicle's4P Pre-connector.

- o. Secure the 4P Connectors to the Vehicle Harness with 1 Wire Tie.
- p. Re-secure the V4 Harness to the Vehicle Harness with 1 Wire Tie.

- q. Secure the V2 Harness's
 Red Tape Maker to the Foot
 Lamp Harness Clamp with
 1 Wire Tie.
- r. Secure the V2 Harness and the Microphone's White 2P Connector to the Foot Lamp Harness with 2 Wire Ties.



4. GBS Microphone Installation

a. Reassemble the Vehicle.



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



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



VERIFY: That all Connectors are plugged in.

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 Using VDC approved Cleaner and Cleaning Method, clean the area indicated on the Glovebox Under Cover.

TVIP V2

 Remove the Protective Backing from the GBS Microphone.



CAUTION: Do not touch the Adhesive surface.

d. Attach the Microphone to the Glovebox Under Cover.

- e. Cut 1 Foam Tape in half.
- f. Use 1/2 Foam Tape to secure the Microphone to the Glovebox Under Cover.

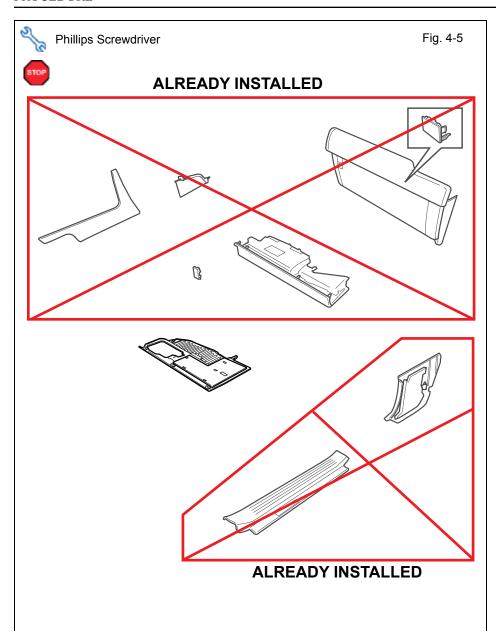


CAUTION: Do not cover the Microphone opening with the Foam Tape.

- g. Re-install the Foot Lamp Harness to the Glovebox Under Cover.
- Connect the V2 Harness's White 2P Connector to the Microphone's 2P Connector.



CAUTION: Place the GBS Microphone's 2P Connector as shown. If the Connector is put in a different place, the Microphone Harness might be damaged.



Reinstall the Glovebox Under Cover.



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



VERIFY: That all Connectors are plugged in.

5. Complete the Installation

- a. Verify that the Short Pin is Installed.
 - If not install now.

b. 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.

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

6. Window Label Installation

- a. Use Household Glass Cleaner to clean the inside of the Front Door Window.
- b. Use a piece of Clear Tape to lift the Label from the 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.

Accessory Function Checks

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



Take out the Smart Key and the Smart Card Key from the Vehicle. Place them 15 ft. (4.5 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 (50°- 90°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 window to trigger the alarm. NOTE: Make sure that the Smart Key and Smart Card are at least 15 ft. (4.5 meters) away.	The horn sounds repeatedly. The headlights flash repeatedly. The turn signal lights flash repeatedly. The Security LED lights up.		
4	Insert the key into the driver's door key cylinder and turn it toward the back of the vehicle to stop the alarm.	The horn stops sounding. All the lights stop flashing and/ or turn off. The Security LED lights up.		



NOTE: 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		
	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		
En	ter the	er the Vehicle				
		Dome/Courtesy Lights		Steering Wheel Column Adjusts Without Interference		
		Horn				
Sta	art the \	/ehicle				
		Starter		Gauges		
		Check Engine Light If the warning light remains on, it may indicate a system malfunction.		ABS Light (if equipped) If the warning light remains on, it may indicate a system malfunction.		
		Lamp Failure Sensor If the warning light remains on, it may indicate a system malfunction.		Track/Skid Control Light (if equipped) If the warning light remains on, it may indicate a system malfunction.		
		Seat Belt Warning Light If the warning light remains on, it may indicate a system malfunction.		Tire Pressure Monitoring System (TPMS).		
,		Air Bag Warning Light If the warning light remains on, it may indicate a system malfunction.		Prior to TPMS activation and Pre-de- livery Service (PDS) of the Vehicle the TPMS light will blink when IG is turned on.		
ì		Cruise Control Light (if equipped)		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.		
Us	sing a N	Mirror or Assistant check the following.				
		Trunk/Tailgate/Bed Lights (if equipped)		Tail Lights		
		Brake Lights		Daytime Running Lights (if equipped)		
		Backup Lights		Marker Lights		
		Clearance Sonar (if equipped)				
Stop the Engine, Place the Vehicle's IG in the ON position.						
		Hazard Lights		Turn Signal Lights		
		Head Light		Fog Lights (if equipped)		
		High Beams		Accessory Controls/Illumination (if equipped)		
		Power Side Mirrors (if equipped)		Convenience Memory Settings (if equipped)		

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	Function		Function		
		Power Sliding Door (if equipped)		Rear Sunshade (if equipped)	
Ī		Front Wiper/Washer		Rear Wiper/Washer (if equipped)	
		Power Sun/Moon Roof (if equipped)		Rollover Side Curtain Air Bag Switch (RSCA) (if equipped)	
		Clock (if equipped)		Navigation System (if equipped)	
		Audio/Video (if equipped)		HVAC	
		Steering Wheel Audio Control (if equipped)		Rear Window Defogger (if equipped)	
Ī		Front Windshield Defogger (if equipped)		Accessory Power Socket (if equipped)	
		Side Mirror Defogger (if equipped)		Heated/Vented Seats (if equipped)	
Ī		Massage Seats (if equipped)			
·			•		
		Glovebox Light (if equipped)		Passenger Air Bag Switch (if equipped)	
		Power Locks (if equipped)		Power Windows (if equipped)	
		Power Seats (if equipped)		Key Sensor Buzzer	