CT 200h LEXUS

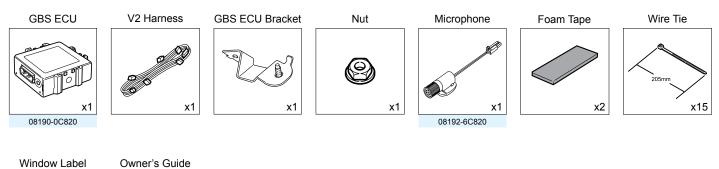
PREPARATION

2011-

Part #: PT398-76110

Conflicts:

Kit Contents







Service Part #'s

Additional Items

(may be required)

Description

Recommended Sequence of Application

ltem#	Description
1	Illuminated Door Sills
2	TVIP V2 Glass Breakage Sensor
3	TVIP V4 Remote Engine Starter

Recommended Tools

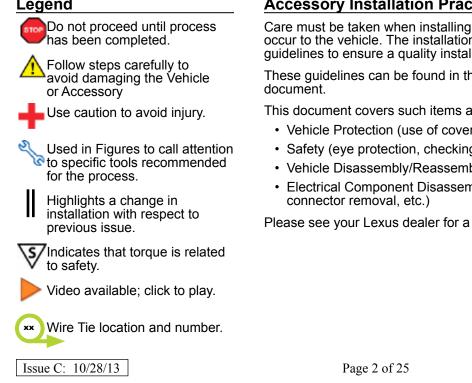
Personal & Vehicle Protection	Description
Safety Glasses	
Safety Gloves	(Optional)
Vehicle Protection	Blankets, Parts Boxes
Special Tools	
Striker Tool	CAD-E IADS P/N ALL 02-016-01
Installation Tools	
Screwdriver	#2 Phillips, Flat Blade Jeweler's
Nylon Panel Removal Tool	e.g. Panel Pry Tool #1 Toyota SST# 00002-06001-01
Side Cutters	
Socket	10mm, extension
Pliers	Needle Nose
Torque Wrench	Battery: 48 in•lbf (5.4 N•m)
	Passenger's Knee Airbag: 88.5 in•lbf (10 N•m)
Таре	Clear, Electrical
Special Chemicals	
Cleaner	VDC Approved Cleaner
Glass Cleaner	Household Glass Cleaner

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PREPARATION

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	2. Vehicle Disassembly (Passenger Compartment).	
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Legend



Accessory Installation Practice (read before installation)

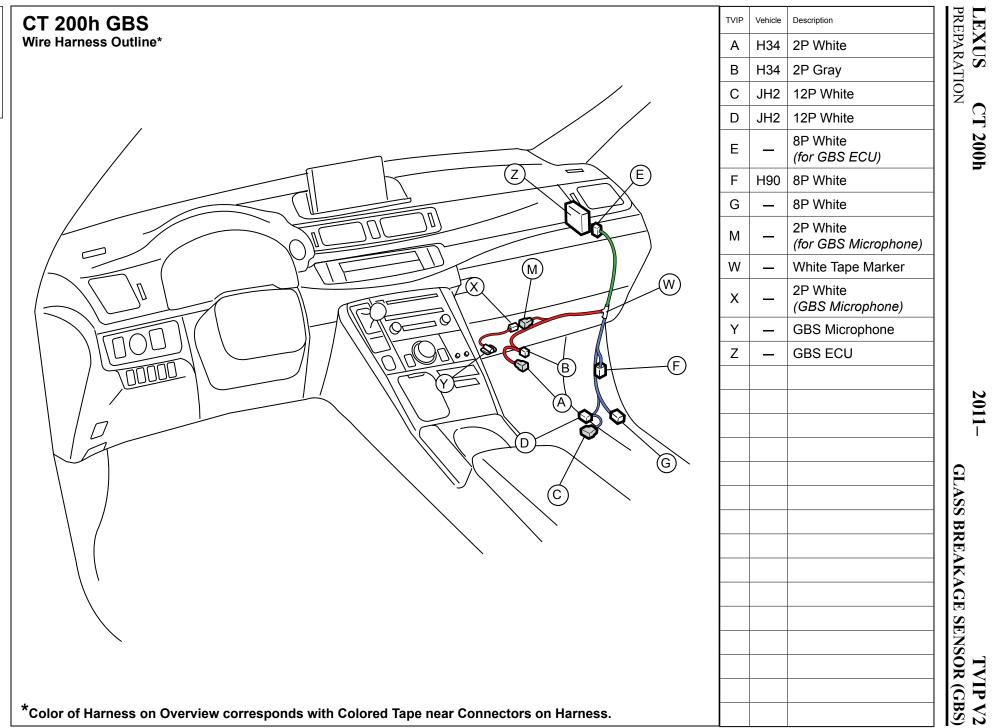
Care must be taken when installing this accessory to ensure damage does not occur to the vehicle. The installation of this accessory should follow approved guidelines to ensure a quality installation.

These guidelines can be found in the "Accessory Installation Practices"

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,

Please see your Lexus dealer for a copy of this document.



Disassembly Overview		1 Lu	ggage Board
		2 PS	Luggage Side Board
8	3		Luggage Side prage Box
		4 Re	ar Trim
	Ę	5 Glo	ove Box Under Cover
		6 PS	Step Cover
(9)		7 PS	Cowl Cover
		B PS	Dash Side Cover
5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		9 (Do	Knee Airbag o not disconnect nnectors)
UGGAGE COMPARTMENT		0 Glo	ove Box
LUGGAGE COM	2		
		Disconn Connec	ect all Corresponding tors.
\checkmark			

1. Vehicle Disassembly (Luggage Compartment).

- a. Place the vehicle in Park with the Parking Brake set.
- b. Remove the Luggage Board.

c. Remove the PS Luggage Side Board.

- d. Remove the Luggage Storage Box.
- e. Remove the PS Luggage Side Storage Box.
 - Remove 1 Nut.

f. Remove the Rear Trim.

- g. 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.

2. Vehicle Disassembly (Passenger Compartment).

a. Remove the Glove Box Under Cover.

- b. Disconnect the Vehicle Connector (s).
 - Remove 1 Clip.

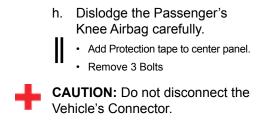
V2/V4 Add-on ONLY

- c. Disconnect the V4 2P Connector from the Vehicle Connector.
- d. Disconnect the Vehicle Connector (s).
 - Remove 1 Clip.

e. Remove the Passenger's Side Step Cover.

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

- g. Remove the Passenger's Side Dash Cover.
- Apply Protection tape on pry area.



- i. Wrap the Airbag in a Blanket or the like as shown.
- j. Place the Airbag on top of the TVIP box.



CAUTION: Prevent stress on the Airbag Wire.

- k. Remove 2 Screws from the bottom of the Glove Box.
- I. Open the Glove Box.

m. Dislodge the Glove Box

Remove 2 Screws.

n. Remove the Glove Box.

- Disconnect the Vehicle Connector.
- · Remove the Vehicle's Clamp.



CAUTION: Do not remove Glove Box Light

LEXUS **CT 200h** PROCEDURE

Jeweler's Flat Blade Screwdriver

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Fig. 3-1

Fig. 3-2

3. GBS ECU Preparation and Installation.

a. Set the GBS sensitivity value to "7."

b. Attach GBS ECU Bracket to the GBS ECU.

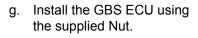
Issue C: 10/28/13

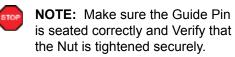
- Page 10 of 25
- ୬ Utility Knife Fig. 3-3

- Cut 1 Foam Tape in half. C.
- Apply 1/2 piece of the Foam d. Tape to the GBS ECU.
- e. Apply 1/2 piece of the Foam Tape to the GBS ECU Bracket and the GBS ECU.

2011-

f. Place the GBS ECU on the Vehicle's Brace in the Glove Box Area.





4. V2 Harness Installation.

- a. Connect the V2 White 8P Connector to the GBS ECU.
- b. Route the V2 Harness toward the Passenger's Cowl Area.

c. Secure the V2 Harness to the Vehicle Harness with 2 Wire Ties.

- d. Secure the V2 Harness to the Vehicle Harness with 1 Wire Tie.
 - Place the V2 Harness's White Tape marker parallel to the Vehicle's Brace as shown.

V2 ONLY

e. Secure the V2 8P Connector and Harness to the Vehicle Harness with 2 Wire Ties.

f. Disconnect the Vehicle's White 12P Connector from the Passenger's Side Cowl Connector Block.

g. Connect the V2 Harness's White 8P Connector to the Vehicle's 8P Pre-Connector.

h. Plug the V2 12P Connectors in between the Vehicle's 12P Connectors.

i. Secure the 12P Connectors to the Vehicle Harness with 1 Wire Tie.

V2/V4 Add-on ONLY

j. Cut the Wire Tie securing the V4 12P Connector.

k. Disconnect the V4 12P and 8P Connectors from the Passenger's Cowl Connector Block.

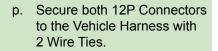
I. Plug the V4 8P Connector to the V2 8P Connector.

 m. Secure the 8P Connectors to the Vehicle Harness with 1 Wire Tie.

n. Plug the V2 8P Connector to the Passenger's Side Connector Block.

2011-

o. Plug the V2 12P Connectors in between the V4's and Vehicle's 12P Connectors.



CAUTION: Do not secure the 12P Connectors to the Airbag Harness.

- q. Route the V2 Harness along the Vehicle Harness under the Glove Box Area.
- Secure the V2 Harness to r. the Vehicle Harness with 1 Wire Tie.

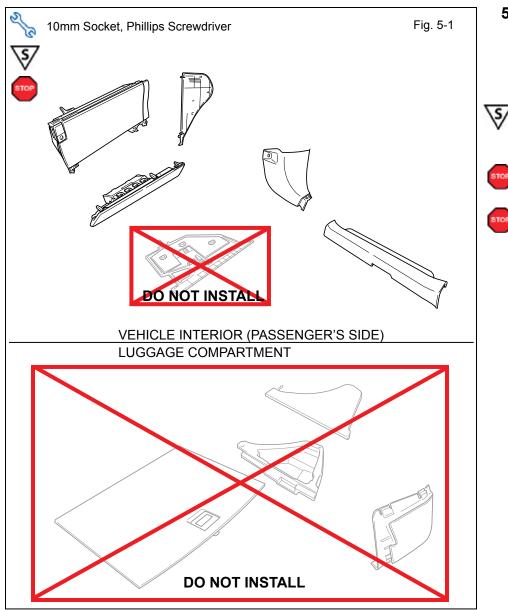
- s. Secure the V2 Harness to the Vehicle Harness with 1 Wire Tie.
 - Arrange the V2 Harness's Black Tape marker to the Vehicle Harness's White (or Black) Tape.

V2 ONLY

- t. Secure the V2 Harness to the Vehicle Harness with 3 Wire Ties.
- u. Plug the Vehicle's Gray 2P Connector to the V2 White 2P Connector.

V2/V4 Add-on ONLY

- v. Secure the V2 Harness to the Vehicle Harness with 3 Wire Ties.
- w. Connect the V4 Gray 2P Connector to the V2 White 2P Connector.



- 5. Microphone Installation.
 - a. Reassemble the Vehicle except for the Glove Box Under Cover and Luggage Compartment Panels.
 - NOTE: When reinstalling Knee Airbag, make sure to tighten the Bolts to 88.5 in•lbf (10 N•m).
- - VERIFY: That all Connectors are reconnected.
 - 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 Glove Box Under Cover.
- c. Remove the protective backing from the GBS Microphone.

- CAUTION: Do not touch the Adhesive surface.
- d. Attach the Microphone to the Glove Box Under Cover.



- · Make sure to align with the edge of the hole.
- e. Use 1 Foam Tape to secure the GBS Microphone.



CAUTION: Do not cover the Microphone's Opening.

V2 ONLY

- f. Connect the Microphone's 2P Connector to the V2 2P Connector.
 - Reinstall the Vehicle's Clamp.

g. Plug the V2 Gray 2P Connector to the Vehicle's Gray 2P Connector.

h. Secure the 2P Connectors to the Vehicle Harness with 1 Wire Tie.



• Make sure to secure the 2P Connectors as shown.

V2/V4 Add-on ONLY

i. Plug the GBS Microphone's 2P Connector to the V2 2P Connector.

- j. Connect the V2 Gray 2P Connector to Vehicle's Gray 2P Connector.
 - Reinstall the Vehicle's Clamp.

k. Use 1 Wire Tie to secure the two 2P connectors to the Vehicle Harness.

• Make sure to secure the two 2P



Connectors as shown.

I. Reinstall the Glove Box Under Cover.

6. Complete the Installation.

a. Verify that the Short Pin is installed.



If not install now.

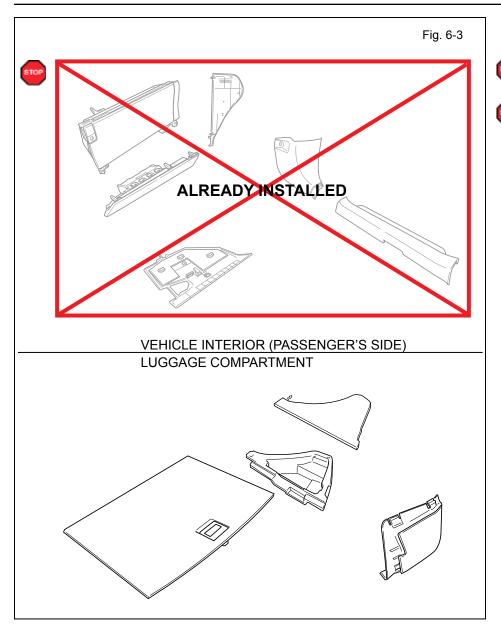
b. Position the Negative Battery Cable at the original factory position and torque the nut.



Torque: 5.4 N•m (48 in•lbf)

CAUTION: Do not touch the positive terminal.

Issue C: 10/28/13



c. Reassemble the Luggage Compartment Panels.

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

- **VERIFY:** That all Connectors are plugged in.
 - d. Clean up and Remove trash.
 - e. Sealed in its protective bag, place the Owner's Manual in the Glove Box.

7. 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 off its protective backing.



CAUTION: Do not touch the adhesive surface.

c. Use a piece of Clear Tape to attach the Label as shown.

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

REPEAT: steps a-c with the other Window.

Issue C: 10/28/13

TOP

Accessory Function Checks

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

STOP

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 windows to trigger the alarm.	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.)

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2011-CHECKLIST – these points **MUST** be checked to ensure a quality installation.

Vehicle Function Checks

		Function	Function
En	ter the	Vehicle	
		Dome/Courtesy Lights	Horn

Start the Vehicle

,	remote				
	Starter			Gauges	
	Check Engine Light If the warning light remains on, it may indicate a system malfunction.	CHECK		ABS Light (if equipped) If the warning light remains on, it may indicate a system malfunction.	(ABS)
	Lamp Failure Sensor If the warning light remains on, it may indicate a system malfunction.	Ì		Track/Skid Control Light (if equipped) If the warning light remains on, it may indicate a system malfunction.	ζŢ
	Seat Belt Warning Light If the warning light remains on, it may indicate a system malfunction.			Tire Pressure Monitoring System (TPMS) Prior to TPMS activation and Pre-delivery	
	Air Bag Warning Light If the warning light remains on, it may indicate a system malfunction.	~		Service (PDS) of the Vehicle the TPMS lig will blink when IG is turned on. After TPMS activation and PDS of the Ve-	
	Cruise Control Light (if equipped)			hicle the TPMS light will illuminate for a few seconds and go off when IG is turned on.	

Using a 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)
	Power Sliding Door (if equipped)	Rear Sunshade (if equipped)

LEXUS	CT 200h	2011-
CHECKLIST - th	hese points MUST be checked t	o ensure a quality installation.

TVI	IP V	2
GLASS BREAKAGE SENSOR	(GB	S)

	Function		Function		
	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)		USB Connections (if equipped)		
	Steering Wheel Audio Control (if equipped)		HVAC		
	Front Windshield Defogger (if equipped)		Rear Window Defogger (if equipped)		
	Side Mirror Defogger (if equipped)		Accessory Power Socket (if equipped)		
	Massage Seats (if equipped)		Heated/Vented Seats (if equipped)		
	Glove box Light (if equipped)		Passenger Side Foot Lamp		
	Power Locks (if equipped)		Power Windows (if equipped)		
	Power Seats (if equipped)		Key Sensor Buzzer		