LEXUS CT 200h

PREPARATION

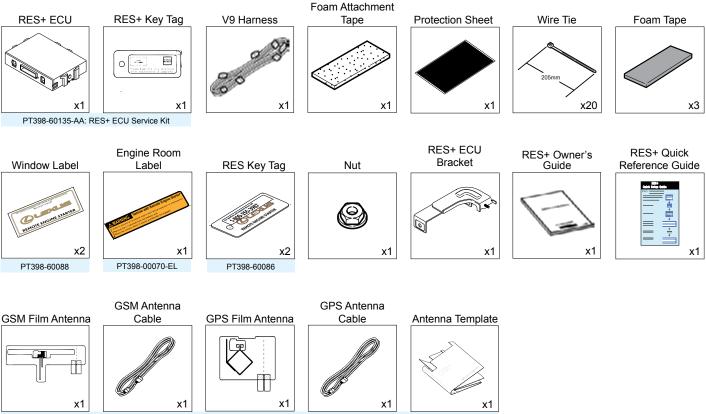
2011–4237 TVIP V9 REMOTE ENGINE STARTER PLUS (RES+)

Will not program with Techstream Lite.

Part #: PT398-76130

Conflicts:

Kit Contents



PT398-76131-AA: RES+ Antenna Service Kit (Includes 10 Wire Ties, 2 Foam Tapes, 1 Protection Sheet and 1 Foam Attachment Tape)

Service Part #'s

Recommended Tools

Additional	Items
Additional	ILCIIIS

(may be required)

ltem#	Description

Recommended Sequence of Application

Item#	Description
1	V2 Glass Breakage Sensor
2	V9 Remote Engine Starter Plus

	Personal & Vehicle Protection	Description
	Safety Glasses	
	Safety Gloves	(Optional)
	Vehicle Protection	Blankets, Parts Boxes
	Special Tools	
	Techstream	Use latest Version on TIS (Do not use Techstream Lite)
	Squeegee	4" 3M™ Orange Applicator #71607
	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	
	Torque Wrench	Battery: 48 in•lbf (5.4 N•m), Airbag: 88.5 in•lbf (10 N•m)
	Ruler	
	Utility Knife	
11	Таре	Clear, Electrical, Masking
	Socket	10mm, extension
	Pliers	Needle Nose
	Special Chemicals	
	Cleaner	VDC Approved Cleaner
	Glass Cleaner	Household Glass Cleaner
		1

PREPARATION

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Legend	Accessory Installation Practice (read before installation)
Do not proceed until process has been completed.	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.
Follow steps carefully to avoid damaging the Vehicle or Accessory	These guidelines can be found in the "Accessory Installation Practices" document.
Use caution to avoid injury.	This document covers such items as:
•	 Vehicle Protection (use of covers and blankets, cleaning chemicals, etc.)
Used in Figures to call attention to specific tools recommended for the process.	 Safety (eye protection, checking torque procedure, etc.) Vehicle Disassembly/Reassembly (panel removal, part storage, etc.) Electrical Component Disassembly/Reassembly (battery disconnection,
Highlights a change in	connector removal, etc.)
II installation with respect to previous issue.	Please see your Lexus dealer for a copy of this document.
Indicates that torque is related to safety.	
Video available; click to play.	
Wire Tie location and number.	
Foam Attachment Tape location and number.	

CT 200h RES+	TVIP	Vehicle	Description	PREPARATION
/ire Harness Outline*	A	H34	2P White	PAR
	В	H34	2P Gray	
	С	JH2	12P White	
	D	JH2	12P White	
	E	_	24P White (for RES+ ECU)	
	F	H90	8P White	
	G	_	1P White (for Registration)	
	н	_	1P White (for Registration)	
	I	_	1P Blue (for RES+ ECU)	
	J	_	1P Gray (for RES+ ECU)	
	W		White Tape Marker	
	Y		Orange Tape Marker	
	Z	_	RES+ ECU	
				RE
				MOTE
H H H				REMOTE
				ENGINE
				STAR
				ER
				RTER PLUS (RES+)
				SD
			1	
				R

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TP V9

2011–4237 TVIP V9 REMOTE ENGINE STARTER PLUS (RES+)

Disassembly Overview	1	Luggage Board
	2	PS Luggage Side Board
	3	PS Luggage Side Storage Box
	4	Rear Trim
9	5	Glove Box Under Cover
	6	PS Step Cover
	7	PS Cowl Cover
	8	PS Dash Side Cover
	9	PS Knee Airbag (Do not disconnect the Airbag connector)
VEHICLE INTERIOR (PASSENGER'S SIDE)	10	Glove Box
VEHICLE INTERIOR (1710- LUGGAGE COMPARTMENT	11	PS A-Pillar Trim
		sconnect all Corresponding

1. Vehicle Disassembly.

- 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.

h. Dislodge the Glove Box Under Cover.

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

V9/V2 Add-on ONLY

- j. Disconnect the Microphone's 2P Connector.
- k. Disconnect the Vehicle Connector (s).
 - Remove 1 Clip.

I. Remove the Passenger's Side Step Cover.

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

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

- o. Dislodge the Passenger's Knee Airbag carefully.
 - Add Protection tape to center panel.
 - Remove 3 Bolts

CAUTION: Do not disconnect the Vehicle's Connector.

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



CAUTION: Prevent stress on the Airbag Wire.

- r. Remove 2 Screws from the bottom of the Glove Box.
- s. Open the Glove Box.

- t. Dislodge the Glove Box.
 - Remove 2 Screws.

- u. Remove the Glove Box.
 - Disconnect the Vehicle Connector.
 - Remove the Vehicle's Clamp.



CAUTION: Do not remove Glove Box Light.



- v. Dislodge the Passenger's side A-Pillar Trim.
 - Apply Protection tape on top of dash and don't remove until the Trim is re-installed.

CAUTION: The trim will only loosen as shown. Trying to remove it without dislodging the internal clip will cause it to break. If A-Pillar Clip is damaged (i.e. scar) or is removed from the body, replace with a new one. Confirm latest clip P/N on electronic parts catalog.

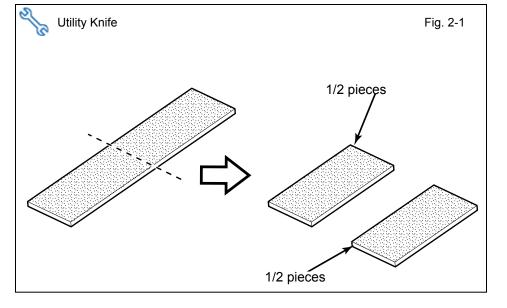
w. With the jaws of the pliers wrapped in tape, rotate the end of the Clip 90°, and then pull the Trim out to disengage the Internal Clip.

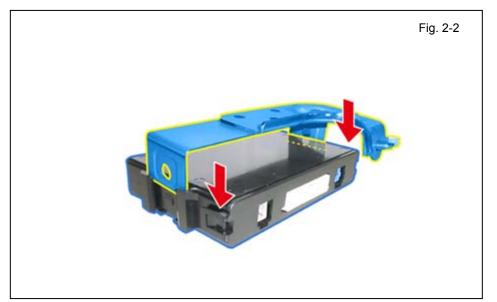


- \wedge
- Be careful when disconnecting the Speaker Connector from the bottom of the A-Pillar Trim. (if equipped)
- y. Remove the Passenger's side A-Pillar Trim.

2. RES+ ECU Preparation and Installation.

a. Cut the 1 Foam tape into 1/2 pieces.





b. Attach the RES+ ECU Bracket to the RES+ ECU.

c. Attach the 1/2 Foam Tape to the RES+ ECU.

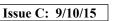
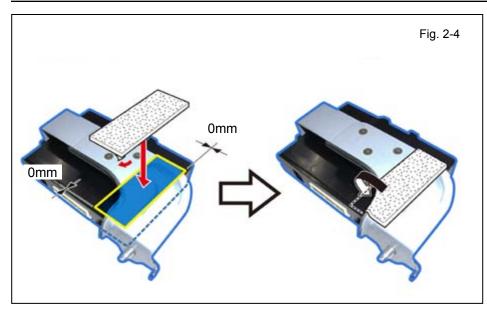


Fig. 2-3

1/2 piece

0mm

0mm



d. Attach 1/2 Foam Tape to the RES+ ECU Bracket.

e. Place the RES+ ECU on the Vehicle's Brace in the Glove Box Area.

f. Install the RES+ ECU using the Nut from the kit.



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

3. V9 Harness Installation.

a. Route the V9 Harness over the Vehicle's Harness and Brace.

b. Plug in the V9 24P Connector to the RES+ ECU.

- c. Secure the V9 Harness's White Tape Marker to the Vehicle's Brace using 1 Wire Tie.
- d. Secure the V9 Harness to the Vehicle Harness using 1 Wire Tie.
 - Rotate the ratchet end on the Wire Tie toward front of the vehicle.

- e. Route the V9 Harness toward the Passenger's Cowl Area.
- f. Secure the V9 Harness to the Vehicle's Brace with 2 Wire Ties.
- STOP
- Make sure to secure wire tie# 3 to the Vehicle Brace's 1st Hole from rear side of Vehicle.

g. Secure the V9 Harness to the Vehicle Harness with 1 Wire Tie.

- h. Secure the V9 Harness to the Vehicle Harness with 1 Wire Tie.
 - Place the V9 Harness's Orange Tape marker parallel to the Vehicle's Brace as shown.

V9 ONLY

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

j. Connect the V9 Harness's White 8P Connector to the Vehicle's 8P Pre-Connector.

k. Plug the V9 12P Connectors in between the Vehicle's 12P Connectors.

V9 ONLY

I. Secure the V9 Harness to the Vehicle Harness with 2 Wire Ties.

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

V9/V2 Add-on ONLY

- n. Secure the V9 Harness to the Vehicle Harness with 1 Wire Tie.
- o. Plug the V9 8P Connector to the V2 8P Connector.

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V9/V2 Add-on ONLY

 p. Secure the V9 Harness to the Vehicle Harness with 1 Wire Tie.

 q. Unplug the V2 12P connector from the Passenger's Cowl Connector Block.

r. Plug the V9 12P Connectors in between the V2's and the Vehicle's 12P Connectors.

V9/V2 Add-on ONLY S. Secure the 12P Connectors to the Vehicle Harness with 1 Wire Tie. ▲ CAUTION: Do not secure the 12P Connectors to the Airbag Harness. t. Route the V9 Harness along the Vehicle Harness under

- u. Secure the V9 Harness to
- the Vehicle Harness with 1 Wire Tie.

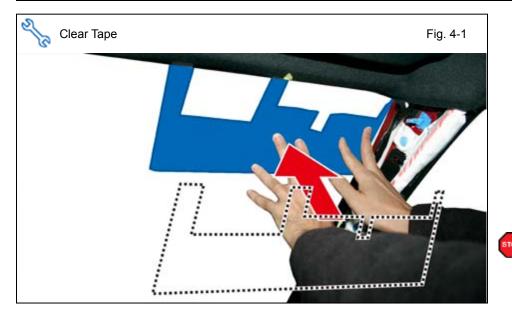
- v. Secure the V9 Harness to the Vehicle Harness with 3 Wire Ties.
 - Arrange the V9 Harness Black Tape marker to the Vehicle Harness White (or Black) Tape.

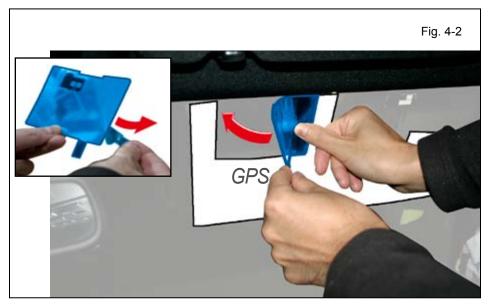
V9 ONLY

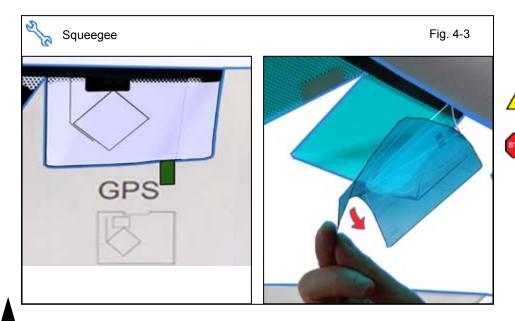
 Plug the Vehicle's Gray 2P Connector to the V9 White 2P Connector.

V9/V2 Add-on ONLY

x. Connect the V2 Gray 2P Connector to the V9 White 2P Connector.







4. GPS and GSM Antenna Installation.

- a. Use Household Glass Cleaner to clean the inside of the Passenger's side Windshield.
- b. Line up the Antenna Template to the edges of the Headliner and A-Pillar on the Passenger's side Windshield.
 - Use clear tape to attach Template to the Windshield.

NOTE: Make sure not to apply tape over areas where the Film Antennas will be placed.

- c. Use the Blue Tab to remove the partial protective backing from the GPS Film Antenna.
- d. Attach the GPS Film Antenna on the specified Template location on the Windshield.



• Line up the Film Antenna to the Headliner edge.

e. Use the Green Tab to peel off remaining protective backing to attach the whole GPS Film Antenna on the Windshield.

Slowly peel off the protective backing.

NOTE: Make sure to use a squeegee when attaching Film Antenna on the Windshield to eliminate any Air Bubbles.

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- f. Carefully and Slowly peel off the top protective sticker leaving only the GPS Film Antenna on the Windshield.
- g. Use a soft cloth to press on the Film Antenna for it to fully adhere to the Windshield and to eliminate any Air Bubbles.
- **CAUTION:** Do not use hard tools like spatulas, squeegee, etc., once the top protective film has been removed.

CAUTION: Do not touch the GPS Film Antenna Terminal.

- h. Use no. 1 Tab to peel off the partial protective backing from the GSM Film Antenna.
- i. Attach the GSM Film Antenna on the specified Template location on the Windshield.

• Line up the Film Antenna to the Headliner edge.

NOTE: Make sure to use a squeegee when attaching Film Antenna onto the Windshield to eliminate any Air Bubbles.



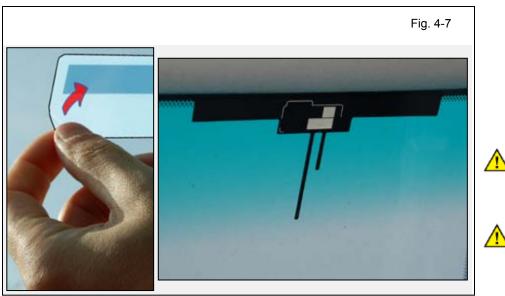
j. Use the no. 2 Tab to peel off remaining protective backing to attach the remaining part of the GSM Film Antenna on the Windshield.

Slowly peel off the protective backing.

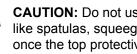
NOTE: Make sure to use a squeegee when attaching Film Antenna onto the Windshield to eliminate any Air Bubbles.

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CT 200h LEXUS PROCEDURE



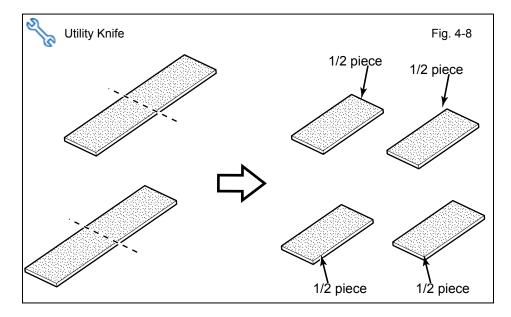
- k. Carefully and Slowly peel off the top Protective sticker leaving only the GSM Film Antenna on the Windshield.
- ١. Use a soft cloth to press on the Film Antenna for it to fully adhere to the Windshield and to eliminate any Air Bubbles.



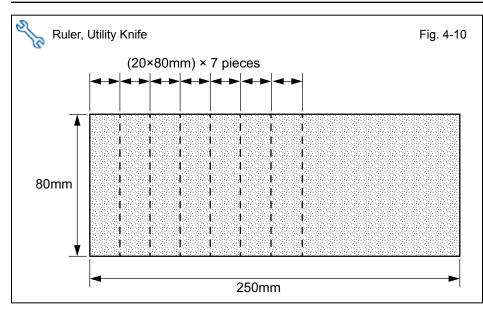
CAUTION: Do not use hard tools like spatulas, squeegee, etc., once the top protective film has been removed.

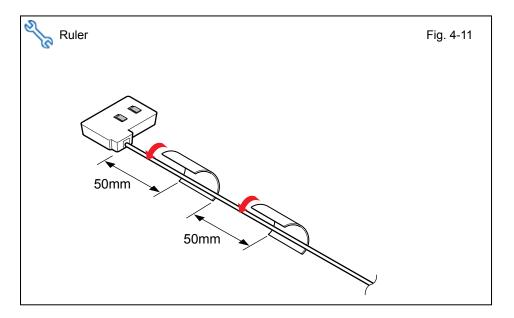


- CAUTION: Do not touch the GSM Film Antenna Terminal.
- m. Cut 2 Foam Tapes into four 1/2 pieces.



- Utility Knife Fig. 4-9 1/2 piece 1/4 piece 1/4 piece
- n. Cut the Protection Sheet into 1/2 piece and two 1/4 pieces.

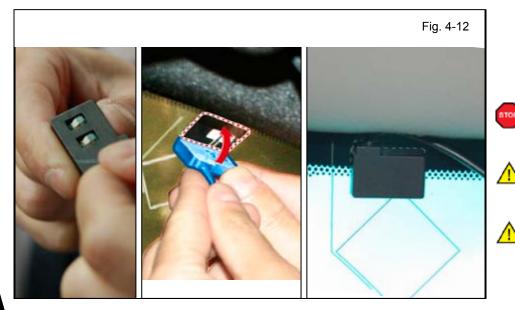






 Cut out 7 pieces of 20x80mm size from the Foam Attachment Tape as shown.

- p. Wrap the GPS Antenna Wire with 1/2 piece of Small Foam tape 50mm away from the GPS Antenna.
- q. Wrap another 1/2 piece of Small Foam tape 50mm away from the first Foam tape.



- r. Peel off the protective backing from the GPS Antenna.
- s. Attach the GPS Antenna to the GPS Film Antenna on the Windshield.

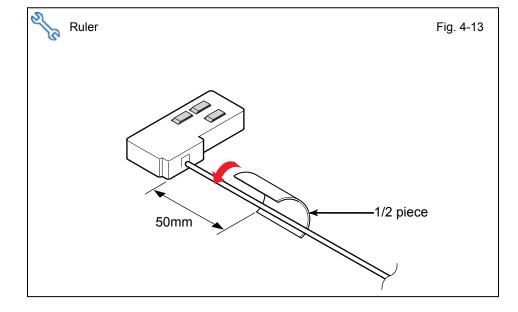
NOTE: Make sure to align the GPS Antenna to the broken line guide on the GPS Film Antenna.

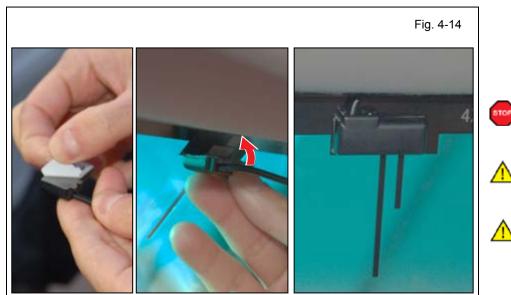
CAUTION: Do not touch the Terminal and adhesive face of the GPS Antenna.

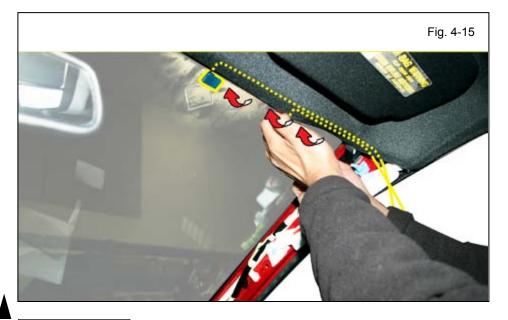
CAUTION: Do not re-attach the GPS Antenna.

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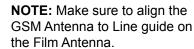
t. Wrap the GSM Antenna Wire with 1/2 piece of Small Foam tape 50mm away from the GSM Antenna.







- u. Peel the protective backing off the GSM Antenna.
- v. Attach the GSM Antenna to the GSM Film Antenna on the Windshield.



CAUTION: Do not touch the Terminal and adhesive face of the GSM Antenna.

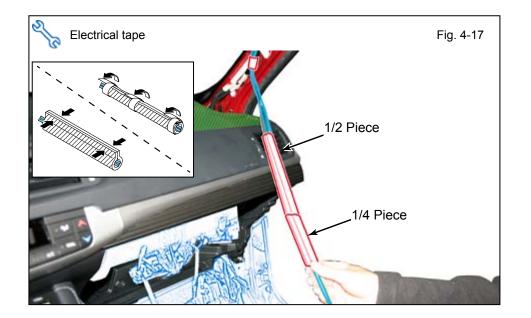
CAUTION: Do not re-attach the GSM Antenna.

w. Tuck both Antenna Wires in between the Headliner and the Windshield routing them toward the Passenger's side A-Pillar area.

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- Route the Antenna Wires along the bottom of the Vehicle Harness securing it with 6 (20x80mm) pieces of Foam Attachment tape.
- STOP N

NOTE: Do not secure Antenna Wires to Vehicle's Drain Hose or Airbag.



- y. Wrap both Antenna Wires starting from the bottom of the A-Pillar using the 1/2 pc. and 1/4 pc. of Protection Sheet.
- z. Secure the Protection Sheet with Electrical tape.

aa. Continue routing the Antenna Wires down towards the Glove box Area.

ab. Secure the Antenna Wires to the Vehicle Harness using 1 (20x80mm) piece of Foam Attachment tape.



NOTE: Do not secure Antenna Wires to Vehicle's Drain Hose.

ac. Secure the Antenna Wires to the Vehicle Bracket using 1 Wire Tie.

ad. Secure the Antenna Wires to the V9 Harness using 2 Wire Ties.

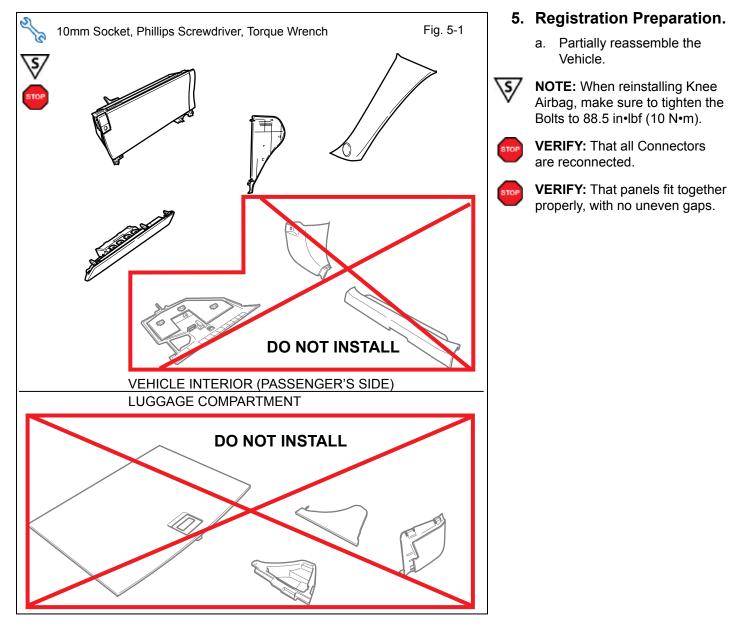


ae. Wrap the Antenna Wires that routes over the Vehicle Bracket area with 1/4 piece of Protection sheet and secure with Electrical tape.

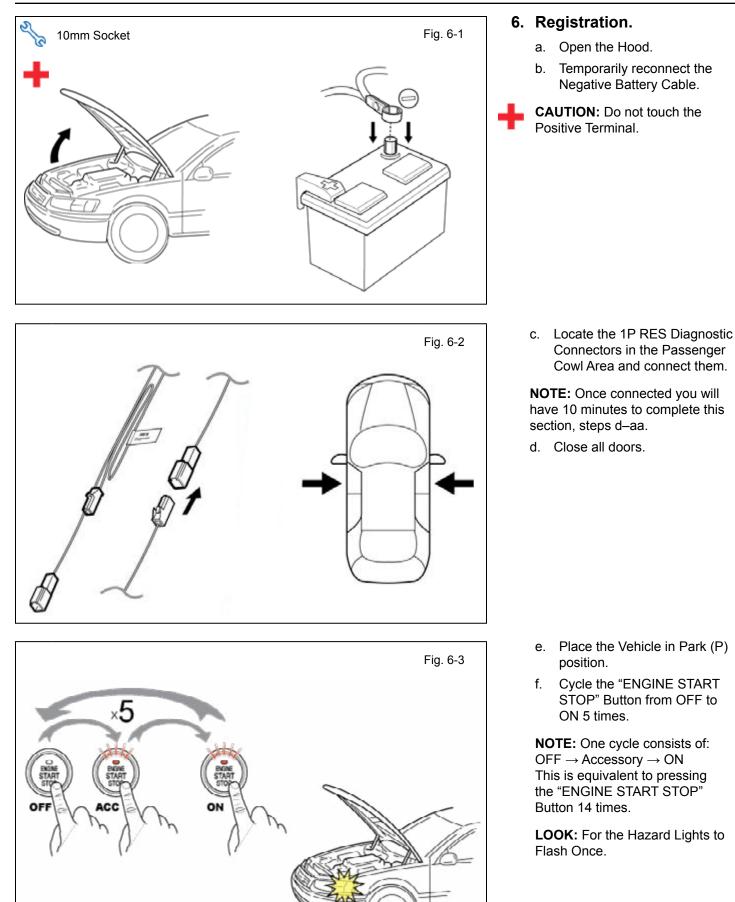
af. Connect both the GPS and GSM Antenna Connectors to the RES+ ECU.

- ag. Secure the Antenna Wires and V9 Harness to the Vehicle Harness using 1 Wire Tie.
- ah. Bundle up the excess Antenna Wires and use electrical tape to secure them together.

ai. Secure the Bundled Antenna Wires to the Vehicle Harness using 2 Wire Ties.

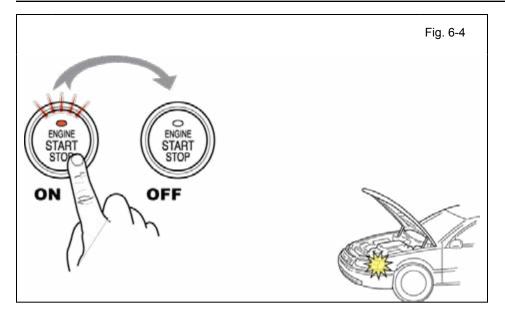


- b. Verify that the Short Pin is installed.
 - If not install now.



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

LOOK: For the Hazard Lights to Flash Once.

IF THIS PROCEDURE FAILED

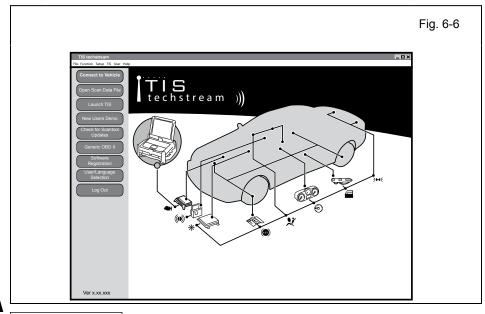
The Hazard Lights flash Three Times.

- Disconnect the V9 Harness's 1P RES Diagnostic Connectors.
- · Start again from step c.

STOP

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.
- I. Click "Connect to Vehicle."

2011–4237 TVIP V9 REMOTE ENGINE STARTER PLUS (RES+)

- Fig. 6-7 _ 0 × nd press Next Division XXXXXX Model XXXXXXXXX • Model Yea 20XX Engine: XXXXXXXX Option Others v ~ Y Optional In VIN: **** <u>~</u> Memo: Manual Cancel Ver x.xx.xxx Fig. 6-8 q. **D**× File En ion Setup TIS User He em Select Stored D System Selection Menu desired system and then pro An astrisk (*) indicates a sys Powertrain Chassis All ECUs Body Electrical mbination Meter \Rightarrow r. Fig. 6-9 _ 🗆 × chstream 10645 ction Setup TIS User H ect Sto red Data Customize t. Utility Selection Menue Select desired Utility and then press Ne k(Key Diag
 - 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 "Others."
 - o. Click "Next>."

p. Select "Smart Access."

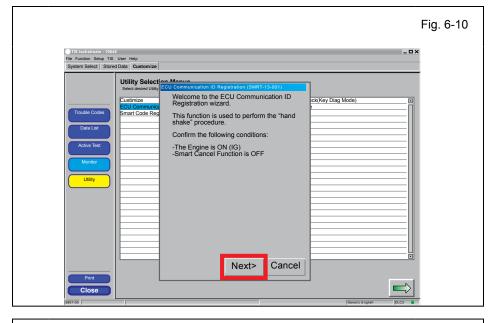
. Click 🔿

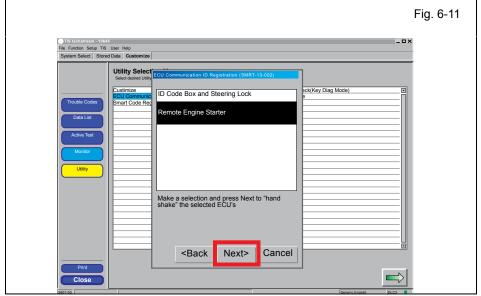
- r. Click on "Utility."
- s. Select "ECU Communication ID Registration."
- t. Click 📄 .

Close

 \Longrightarrow

u. Click "Next>."



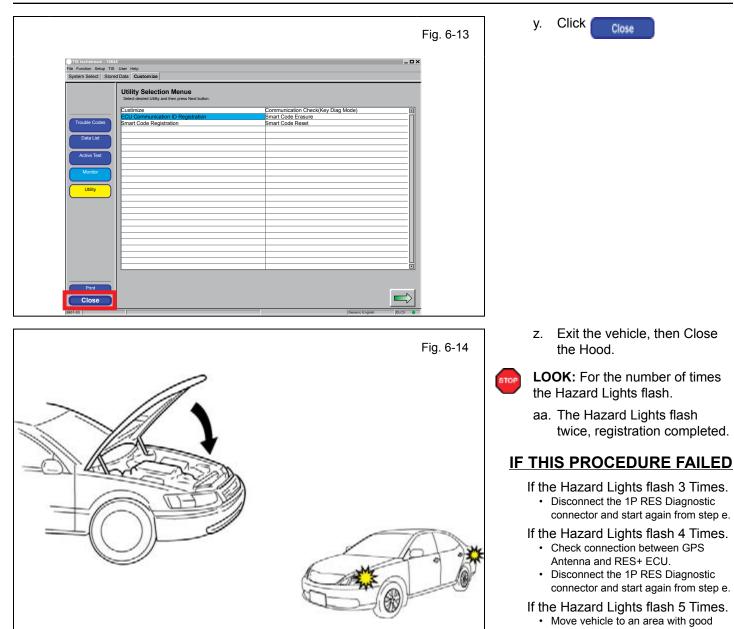


TIS techstream - 10645		_ D ×
File Function Setup TIS User	er Help	- 4 ×
System Select Stored Data	ta Customize	
	tillty Select Schutzer Select select Units ECU Communication ID Registration (SMRT-13-002) ustimizer Cold Communication ID registration for Remote Engine Starter is complete.	

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

CONFIRM: That the ECU Communication ID was completed successfully.

x. Click "Exit."



- cellular reception.Disconnect the 1P RES Diagnostic
- connector and start again from step e.

If the Hazard Lights flash 6 Times.

- Check connection between GSM Antenna and RES+ ECU.
- Disconnect the 1P RES Diagnostic connector and start again from step e.

- ab. After a successful Registration, disconnect the 1P RES Diagnostic Connectors.
- ac. Using Electrical Tape secure the RES Diagnostic Connectors and Harness to the Vehicle Harness.

7. V9 Harness Installation. (Continued)

- a. Open the Trunk Lid.
- b. Disconnect the Negative Battery Terminal.

CAUTION: Do not touch the Positive Terminal.

V9 ONLY

- c. Connect the V9 Gray 2P Connector to the Vehicle's Gray 2P Connector.
 - Reinstall the Vehicle's Clamp

V9 ONLY

d. Secure the 2P Connectors to the Vehicle Harness with 1 Wire tie.

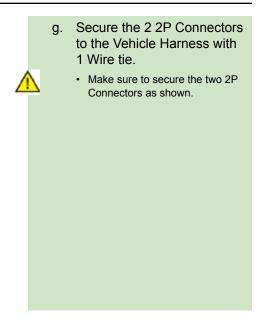


• Make sure to secure the 2P Connectors as shown.

V9/V2 ADD-ON

e. Connect the Microphone's 2P Connector to the V2 Harness 2P Connector.

- f. Connect the V9 Gray 2P Connector to the Vehicle's Gray 2P Connector.
 - Reinstall the Vehicle's Clamp



h. Reinstall the Glove Box Under Cover.

8. Tags and Labels.

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



CAUTION: Do not touch the adhesive surface.

c. Attach the Key Tag.

REPEAT: steps c with the other Smart Key.

d. Attach the RES+ Key Tag with serial number to the Large Key Ring.

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



CAUTION: Do not touch the adhesive surface.

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

STOP

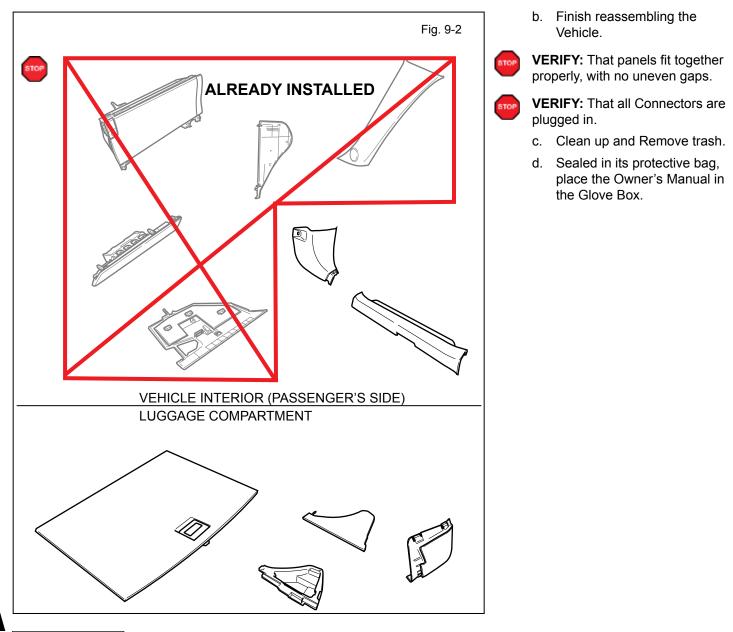
NOTE: Make sure to Align the Label according to Etching or Other Label.

REPEAT: steps e-g with the other Window.

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9. Complete the Installation.

- a. 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.



LEXUS	CT 200h	2011-4237	TVIP V9
CHECKLIST -	these points MUST be c	hecked to ensure a quality installation. REMOTE ENGINE START	ER PLUS (RES+)

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. NOTE: <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)		

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.)

CT 200h LEXUS

2011-4237

CHECKLIST – these points **MUST** be checked to ensure a quality installation. **REMOTE ENGINE STARTER PLUS (RES+)**

Vehicle Function Checks

Functio

		Function		Function
Enter the Vehicle				
		Dome/Courtesy Lights		Horn

V/- I- ! - I St

τċ	tart the vehicle					
		Starter			Gauges	
		Check Engine Light If the warning light remains on, it may indicate a system malfunction.	ICHECK		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.			Track/Skid Control Light (if equipped) If the warning light remains on, it may indicate a system malfunction.	2
		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 light will blink when IG is turned on.		
		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

2011–4237 L V La allation. <u>REMOTE ENGINE STARTER PLUS (RES+)</u> CHECKLIST – these points **MUST** be checked to ensure a quality installation.

	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