Part #: PT398-48091

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

Conflicts:

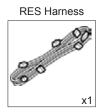
Do not install into Manual Transmission Vehicles or Vehicles without RKE systems.

Kit Contents

RES ECU



RES ECU Bracket











Owner's Guide





Additional Items

(may be required)

Item#	Description

Recommended Sequence of Application

Item#	Description

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 Toyota SST# 00002-06001-01
Side Cutters	
Torque Wrench	36 in•lbf (4.07 N•m), 88.5 in•lbf (10 N•m)
Таре	Clear, Electrical
Socket	8mm, 10mm, extension
Special Chemicals	
Cleaner	VDC Approved Cleaner
Glass Cleaner	Household Glass Cleaner

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	8. Complete the Installation	
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	2. Vehicle Function Checks	

Legend



Do not proceed until process has been completed.



Follow steps carefully to avoid damaging the Vehicle or Accessory



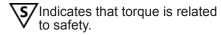
Use caution to avoid injury.



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



Highlights a change in installation with respect to previous issue.



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.

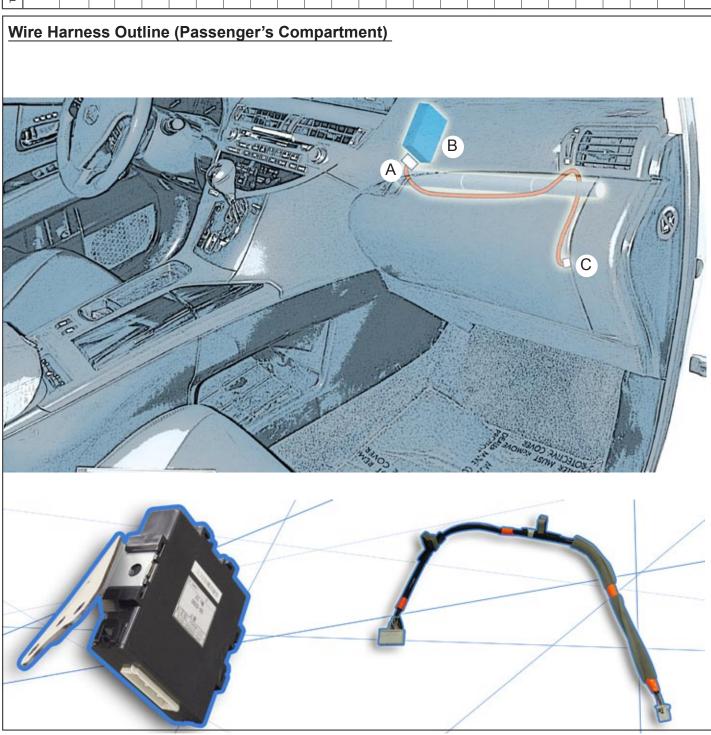
These guidelines can be found in the "Accessory Installation Practices" document.

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 Toyota dealer for a copy of this document.

	111111													 LD5)
Description	24P White (for RES ECU)	RES ECU	12P White											
Vehicle	ı	1	eF1											
₹	⋖	В	ပ											

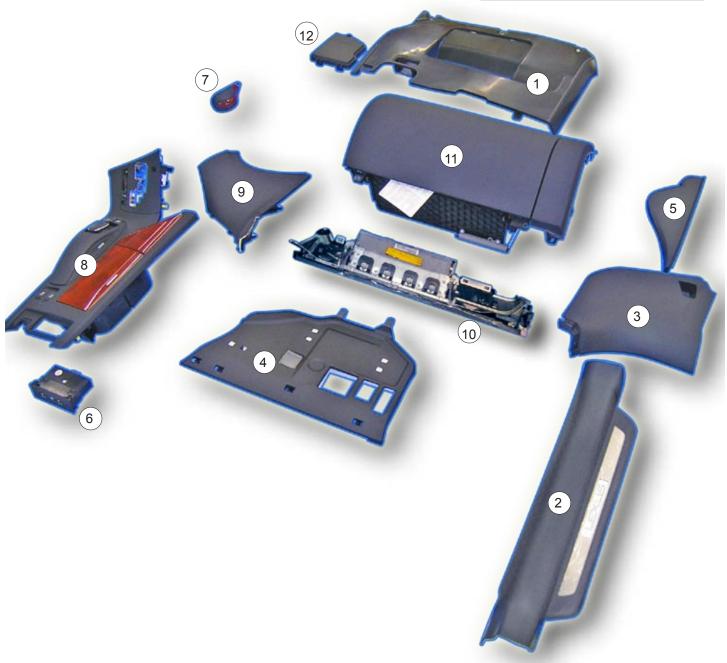


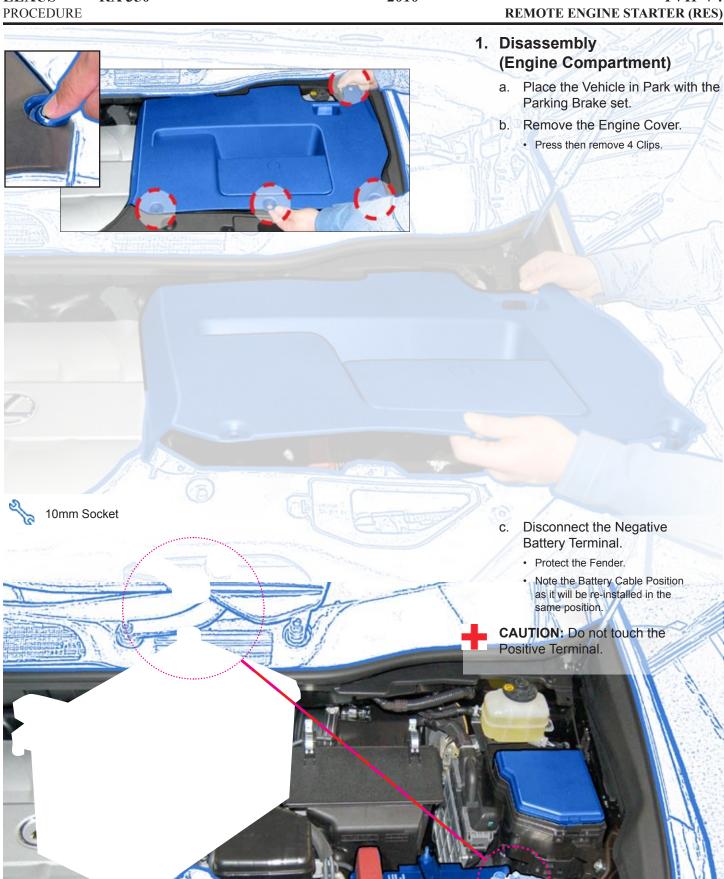
TVIP V4 REMOTE ENGINE STARTER (RES)

1	Engine Cover	6	Seat Temperature Control Unit	11	Glovebox
2	PS Step Cover	7	Shift Knob	12	Fuse Box Cover
3	PS Cowl Cover	8	Center Console		
4	Glovebox Under Cover	9	Center Console Side Trim		
5	Glovebox Side Trim	10	PS Knee Airbag		

Disconnect all Corresponding Connectors.

Disassembly Overview







Nylon Panel Removal Tool

Fig. 2-1

2. Disassembly (Passenger's Side)

a. Remove Passenger's Side Step Cover.



Nylon Panel Removal Tool

Fig. 2-2

b. Remove Passenger's Side Cowl Cover

Fig. 2-3

c. Remove Glove Box Under Cover.



Fig. 2-4

d. Remove Glove Box Side Trim.

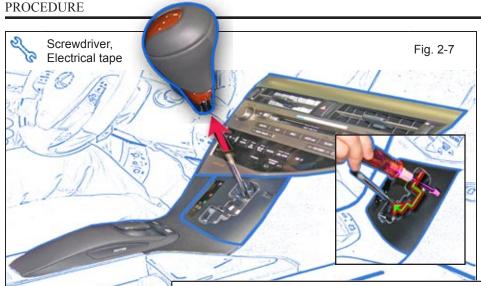
Fig. 2-5

e. Open Center Console Compartment.



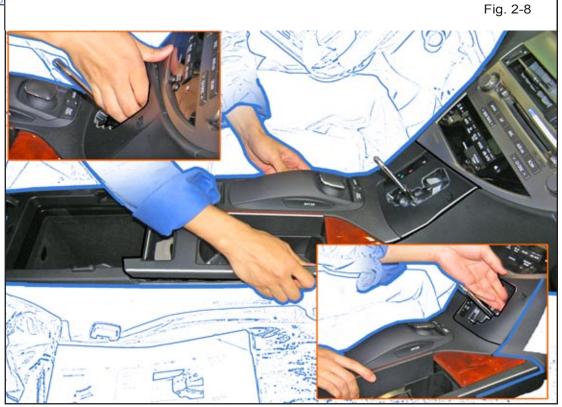
f. Remove Seat Temperature Control Unit.

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- g. Remove Shift knob by turning counter-clockwise.
- h. Push Shift Release with taped screwdriver and shift to Neutral.

 Pull on the Left side Stick Shift Cover, then pull the Center Console up and pull on the Right side Stick Shift Cover.

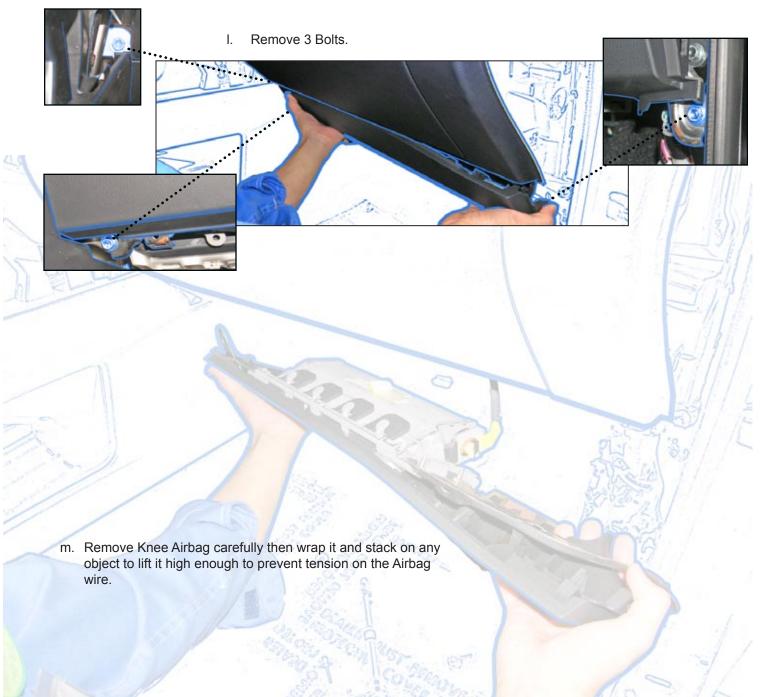




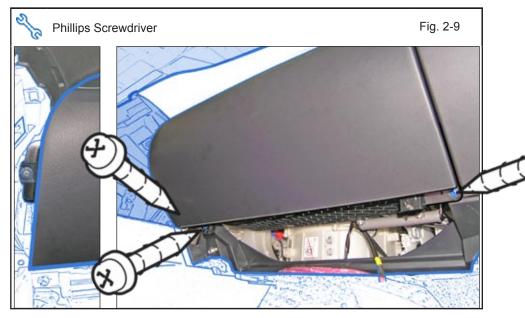
- Shift Center Console to the left and place protective blankets.
- k. Remove Center Console Side Trim.



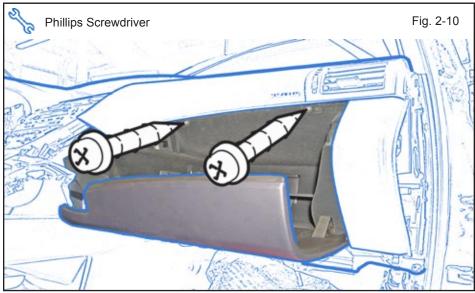
10mm Socket, Extension



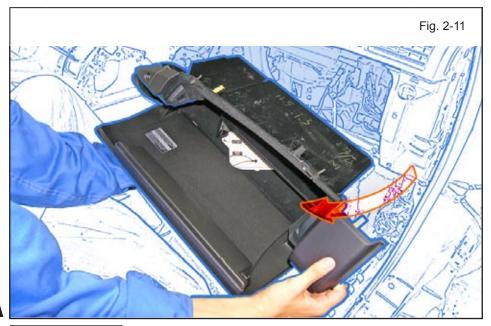
A



n. Remove 3 screws at the bottom of the Glovebox.



o. Open Glovebox and remove 2 Screws.



p. Remove the Glovebox by pulling it towards the left side.

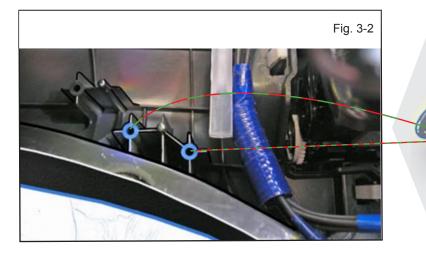
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3. RES ECU Installation.



a. Navigate the RES ECU on the vehicle location shown.

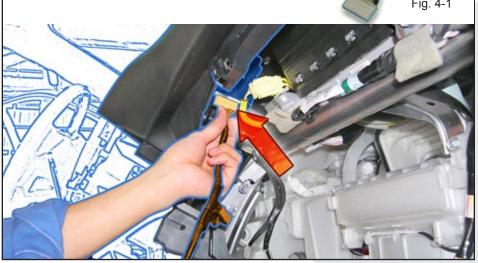
Fig. 3-3

b. Install the RES ECU to the vehicle using 2 Bolts.









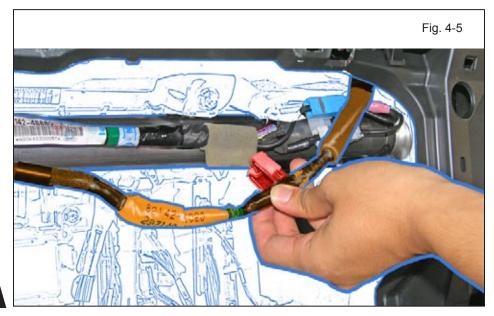
4. V4 Harness Installation.

- a. Connect V4 Harness to the RES ECU.
- b. Use V4 Harness Clamp to secure it to the Vehicle's Harness.
 - · Attach clamp over foam tape.

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c. Route the V4 Harness along the Vehicle's Harness, then route the end of the V4 Harness behind the Vehicle's Reinforce.

d. Plug the V4 Connector to the Vehicle's Pre-Connector in the location shown.



· Attach clamp over foam tape.

e. Use V4 Harness Clamp to

ness.

secure it to the Vehicle's Har-

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5. Registration Preparation.

a. Reassemble the Vehicle.



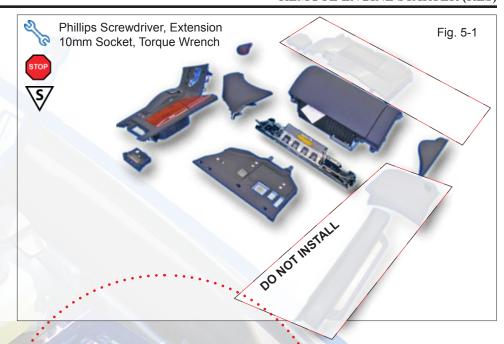
NOTE: When reinstalling Knee Airbag, make sure to tighten the Bolts to 88.5 in lbf (10 N m).

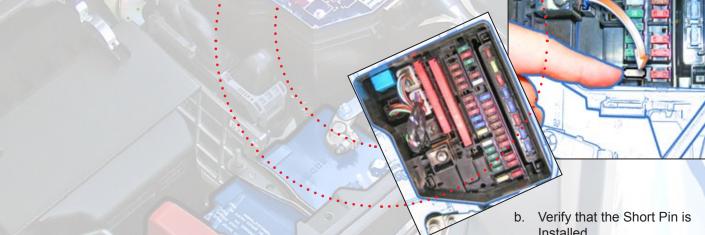


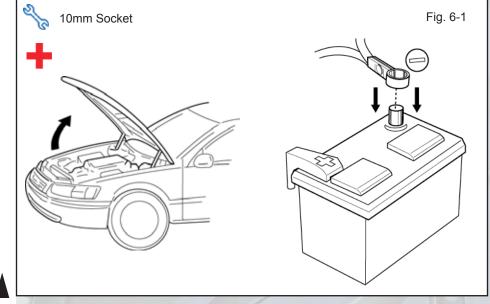
VERIFY: That all Connectors are reconnected.



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







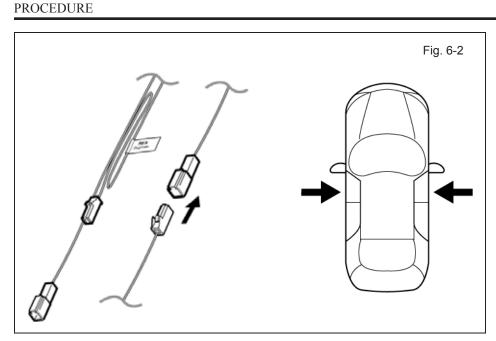
Installed.

· If not Install now.

6. Registration

- a. Open the Hood.
- b. Temporarily reconnect the Negative Battery Cable.
- **CAUTION:** Do not touch the Positive Terminal.

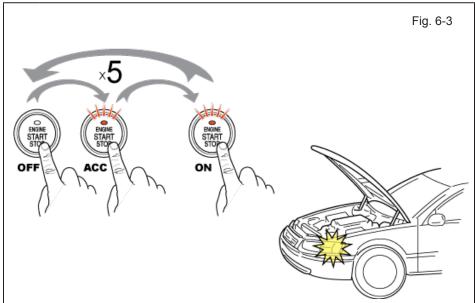
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c. Locate the 1P RES
Diagnostic Connectors in
the Passenger's Side
Cowl Area and connect them.

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

d. Close all doors.



- e. Place the Vehicle in Park (P) or Neutral (N) position.
- f. With the Remote Control Key in your possession, cycle the Smart Key Ignition Button from OFF to ON 5 times.

NOTE: One cycle consists of: OFF → Accessory → ON. This is equivalent to pressing the Smart Key Ignition Button 14 times.

LOOK: for the Hazard Lights to Flash once.

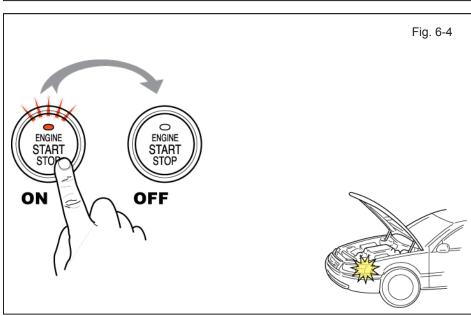
- g. Start the Engine.
- h. After 10 seconds stop the Engine.

LOOK: For the Hazard Lights to flash Once.



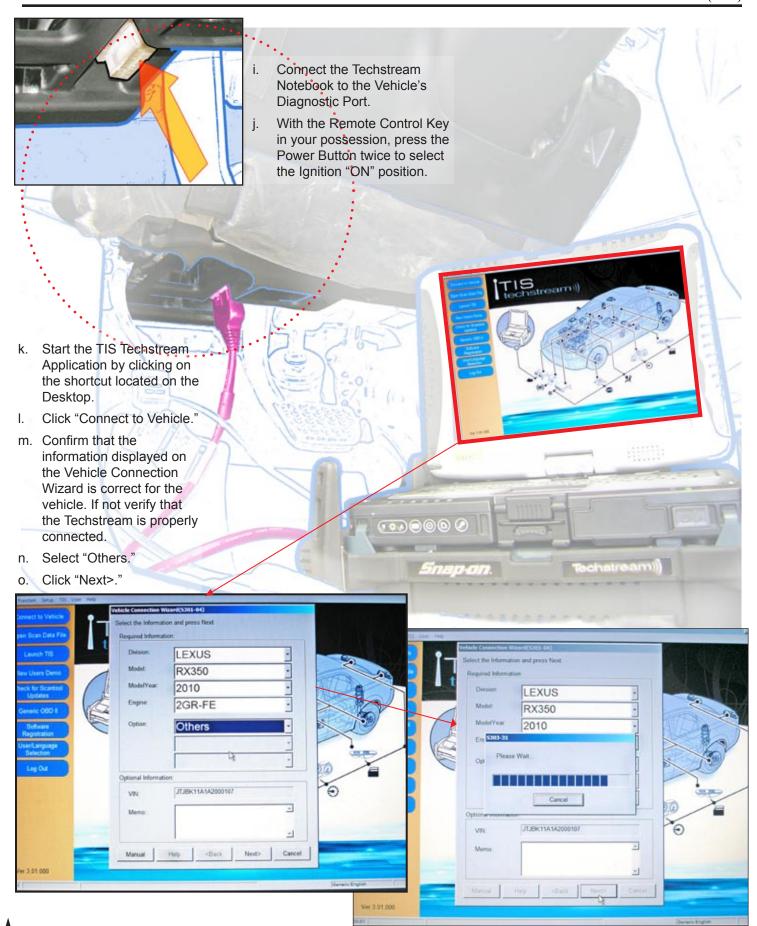
The Hazard Lights flash Three Times.

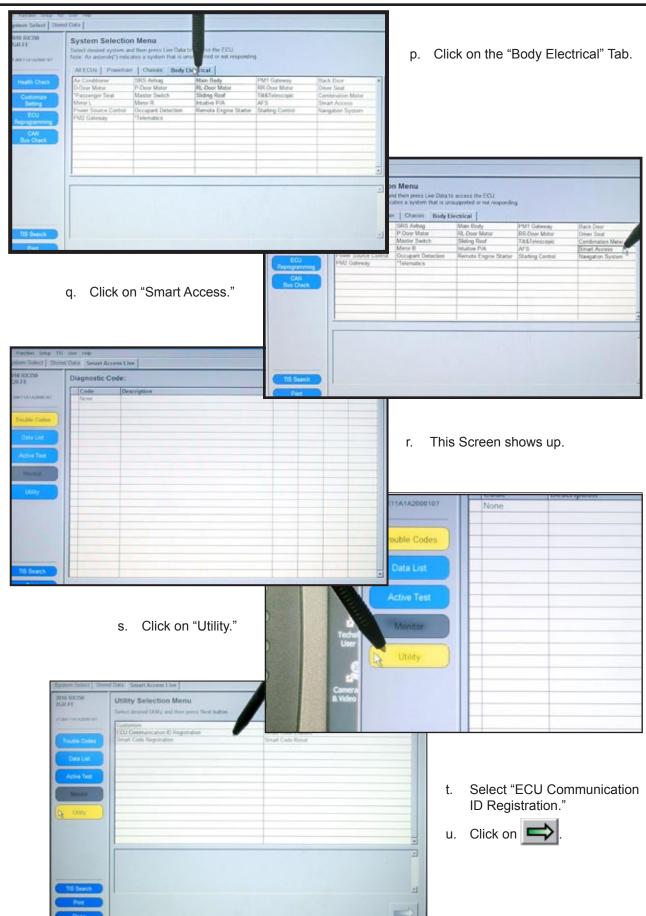
- Disconnect the V4 Harness's 1P RES Diagnostic Connectors.
- · Start again from step c.



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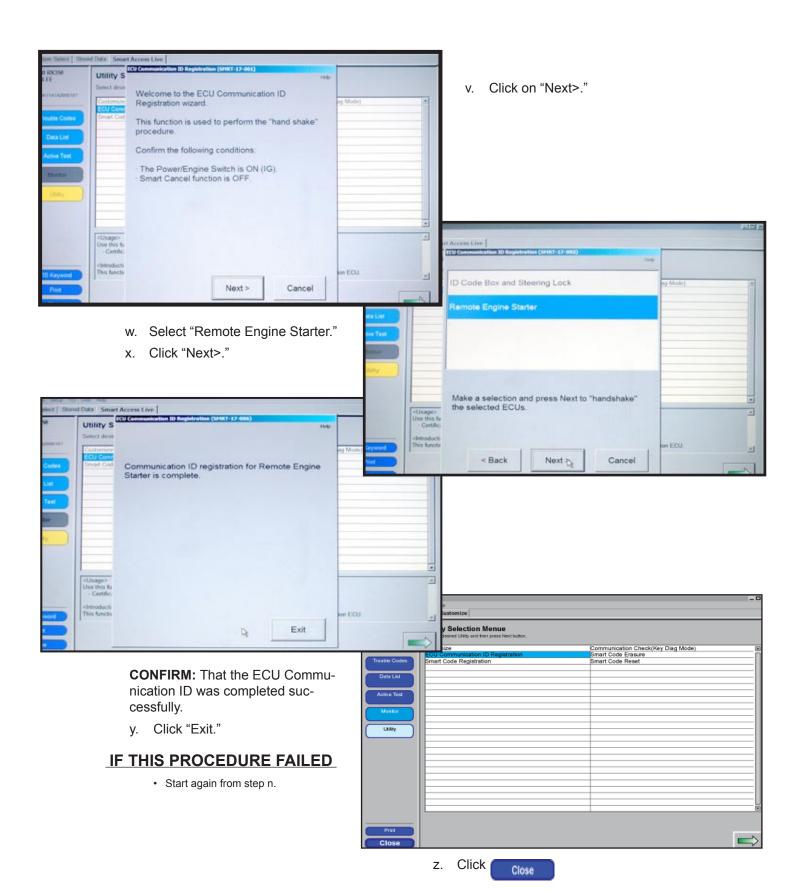




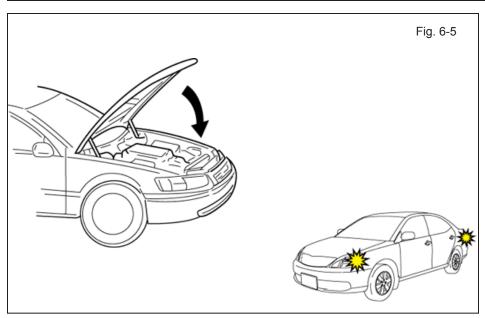


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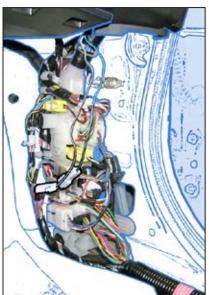


- aa. Exit the vehicle.
- ab. Close the Hood.
- ac. Look for the Hazards to flash twice.

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 Female Connector and Harness to the Vehicle Harness.



7. 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.
 - Using VDC approved cleaner and cleaning method, clean the area indicated in the Engine Compartment.
 - b. Attach the Engine Room Warning Label as shown.

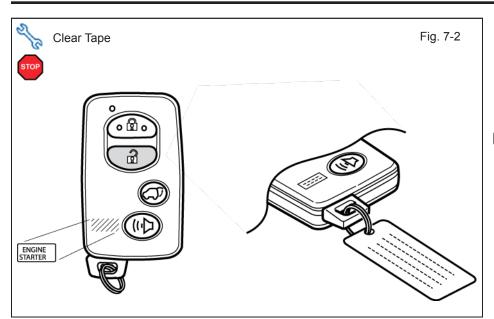


CAUTION: Do not touch the adhesive surface.

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LEXUS

PROCEDURE



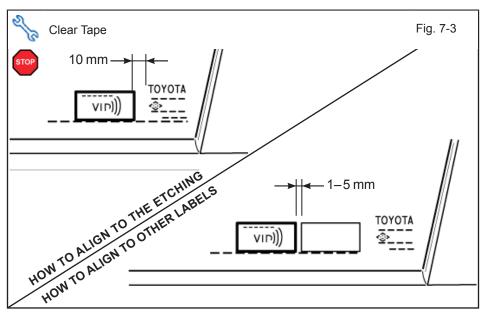
- Using VDC approved cleaner and cleaning method, clean the indicated area on the key.
- d. Use a piece of Clear Tape to lift the label off its protective backing.



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.



- 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.

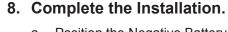


NOTE: Make sure to Align according to Etching or Other Label.

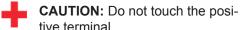
REPEAT: steps g—i with the other Window.

Torque Wrench

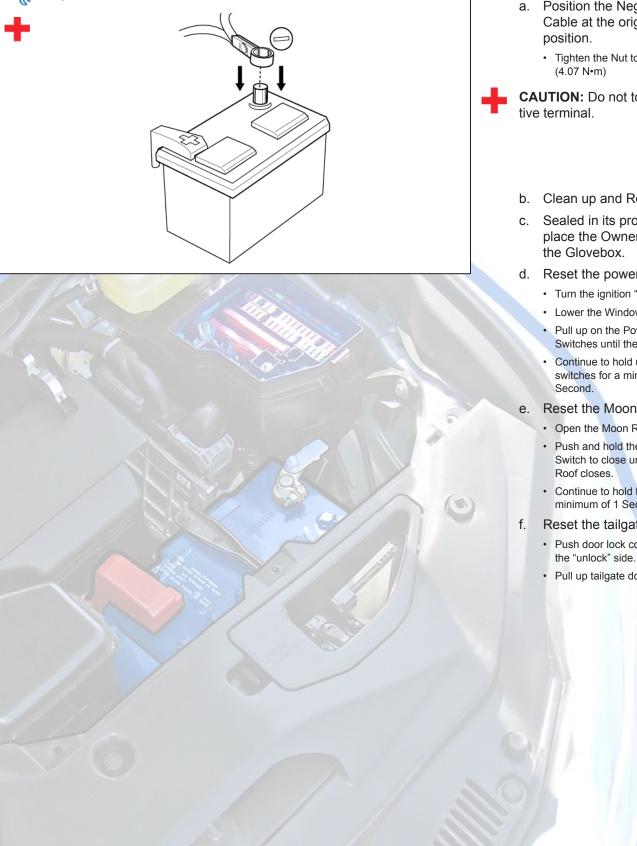
Fig. 8-1



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



- b. Clean up and Remove trash.
- c. Sealed in its protective bag, place the Owner's Manual in
- d. 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
- 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.
- Reset the tailgate door.
 - · Push door lock control switch to
 - Pull up tailgate door handle.



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Accessory Function Checks

LEXUS

Close the hood, place the shift lever in the "P" (parking) position, set the parking brake. With the smart key in your possession: turn the Vehicle off, exit the vehicle, and close all doors.

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	Press the remote control's unlock button.	The engine stops. The hazard lights flash twice.
3	Start the Vehicle again using the remote. With the engine running, press and hold the remote control's lock button for 2 seconds.	Refer to Step 1. The engine stops. The hazard lights flash once.
4	Start the Vehicle again using the remote. With the remote in your possession pressing the lock button on the driver's door to unlock the vehicle.	Refer to Step 1. The engine stops. The hazard lights flash once.

Enter the vehicle and close all doors.

5	Start the Vehicle again using the remote. With the engine running, manually unlock any door with the inside lock switch.	Refer to Step 1. The engine stops. The hazard lights flash once. The security alarm triggers. (if equipped)
6	Start the Vehicle again using the remote. With the engine running, push down on the accelerator until the engine speed exceeds 3000 RPMs.	Refer to Step 1. The engine stops. The hazard lights flash once.
7	Start the Vehicle again using the remote. With the engine running, push on the foot brake.	Refer to Step 1. The engine stops. The hazard lights flash once.
8	Start the Vehicle again using the remote. With the engine running, press the ignition button on the dash.	Refer to Step 1. The engine stops. The hazard lights flash once.
9	Move the shift lever out of "P" (Park). Attempt to start the Vehicle using the remote.	The engine does not start.
10	Start the Vehicle again using the remote. With the engine running, pull the hood release handle.	Refer to Step 1. The engine stops. The hazard lights flash once. The security alarm triggers. (if equipped)

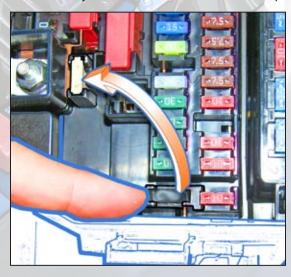
Vehicle Function Check

Function	Function
Head Light	ABS Light (if equipped) If the warning light remains on, it may indicate a system malfunction.
High Beams	Rear Wiper/Washer (if equipped)
Turn Signal Lights	Clock (if equipped)
Tail Lights	Accessory Power Socket (if equipped)
Stop Lights	Starter
Backup Lights	Audio/Video (if equipped)
Hazard Lights	Power Sliding Door (if equipped)
Marker Lights	Convenience Memory Settings (if equipped)
Dome/Courtesy Lights	Heated Seats (if equipped)
Panel/Switch Illumination	Massage Seats (if equipped)
Accessory Controls/Illumination (if equipped)	Rear Window Defogger (if equipped)
Key Sensor Buzzer	Power Side Mirrors (if equipped)
Fog Lights (if equipped)	Side Mirror Defogger (if equipped)
Daytime Running Lights (if equipped)	Front Windshield Defogger (if equipped)
Trunk/Tailgate/Bed Lights (if equipped)	Navigation System (if equipped)
Glove Box Light (if equipped)	Rear Sunshade (if equipped)
Cruise Control Light (if equipped)	Steering Wheel Audio Control (if equipped)
Seat Belt Warning Light If the warning light remains on, it may indicate a system malfunction.	Steering Wheel Column Adjusts Without Interference

	Function	Function
9	Air Bag Warning Light 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.	Front Wiper/Washer
	HVAC	Hood Latch Release
	Power Locks (if equipped)	Passenger Air Bag Switch (if equipped)
	Power Windows (if equipped)	Rollover Side Curtain Air Bag Switch (RSCA) (if equipped)
	Power Seats (if equipped)	Tire Pressure Monitoring System (TPMS).
		Prior to TPMS activation and Pre-delivery Service
	Horn	(PDS) of the Vehicle the TPMS light will blink when IG is turned on.
	Gauges	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.

Remove the short pin after Function check.

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



Finish reassembling the Vehicle.

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

