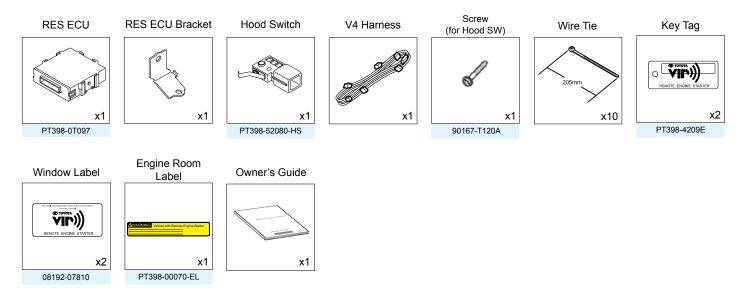
TOYOTA PRIUS V

PREPARATION

Part #: PT398-47150

Conflicts:

Kit Contents



Service Part #'s

Recommended Tools

Personal & Vehicle Protection	Description
Safety Glasses	
Safety Gloves	(Optional)
Vehicle Protection	Blankets, Parts Boxes
Special Tools	
Techstream	Use latest version on TIS
1/4" Drive Torque Screwdriver (Req'd for Hood Switch Kit)	Included in the TPMS Tool Kit# 00002-TTPWS Toyota SST# 00002-TTPWS-03, #0 Phillips Hood Switch: 3.1 in•lbf (0.35 N•m)
Installation Tools	
Screwdriver	#2 Phillips, Phillips 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),
	Hood Latch: 70.8 in•lbf (8.0 N•m),
Таре	Clear, Electrical
Socket	10mm, Extension
Pliers	Needle Nose
Special Chemicals	
Cleaner	VDC Approved Cleaner
Glass Cleaner	Household Glass Cleaner

Additional Items

(may be required)

ltem#	Description
_	

Recommended Sequence of Application

ltem#	Description
1	V5 RS3200+
2	V4 RES (Remote Engine Starter)

TOYOTA PRIUS V

Table of Contents

PREPARATION

Ι.	Preparation	
	1. Table of Contents	2
	2. Wire Routing Overview	
П.	Procedure	
	1. Preparation	5
	2. Hood Switch Installation	8
	3. Disassembly	
	4. RES ECU Preparation and Installation	
	5. Registration Preparation	
	6. Registration	
	7. Tags and Labels	
	8. Complete the Installation	
111.	. Checklist	
	1. Accessory Function Checks	
	2. Vehicle Appearance Check	
	3. Vehicle Function Checks	

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" 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.

		OT. Rat			RIU	S V	7					20)15-	_	R	EM	ίΟΤ	E E	NG	INE	STA	ART	TV ER	
Description	12P White	12P White	12P White	12P Black	24P White (for RES ECU)	8P White	1P White	1P White (for Registration)	White Tape Marker	RES ECU														
Vehicle	L4	Ц	1	1		L79	1	1	1	Ι														
TVIP	۲	ш	ပ		ш	ш	G	Т	8	Ν														
	Wire Harness Outline* (Vehicle Interior)																7							*Color of Harness on Overview corresponds with Colored Tape near Connectors on Harness.

TOYOTAPRIUS VPREPARATION

TVIP V4 REMOTE ENGINE STARTER (RES)

PK	EPAI	ΛAI	IOP	N								NĽ		יועד ע	IGI	INE	517	TER	. (N	es)
TVIP Vehicle Description	Y A47 2P Black Hood Switch																			
TOVOTA BBIILS V BES	Wire Harness Outline* (Engine Compartment)																			

TOYOTA PRIUS V

PROCEDURE

TVIP V4 REMOTE ENGINE STARTER (RES)

Disassembly Overview								
VEHICLE INTERIOR(PASSENGER'S SIDE)								
LUGGAGE COMPARTMENT								
	ST							

1	Luggage Board					
2	DS Luggage Side Board					
3	PS Luggage Side Board					
4*	Tonneau Cover (if equipped)					
5	Luggage Storage Box					
6	PS Luggage Side Storage Box					
7	PS Step Cover					
8	PS Cowl Cover					
9	Glove Box Under Cover					
10	Glove Box					
11	Upper Glove Box					
12	Cluster Side Panel					
13	Center Air Conditioner Vent					
14	Audio Unit					
Disconnect all Corresponding Connectors.						

1. Preparation.

- a. Place the Vehicle in Park with the Parking Brake set.
- b. Verify that the Short Pin is installed.
 - If not install now.

2015– TVIP V4 REMOTE ENGINE STARTER (RES)

c. Remove the Luggage Board.

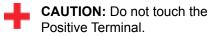
d. Remove the DS and PS Luggage Side Boards.

e. Remove the Tonneau Cover (if equipped).

f. Remove the Luggage Storage Box.

g. Remove the PS Luggage Side Storage Box.

- h. Disconnect the Negative Battery Terminal.
 - Note the Battery Cable Position as it will be re-installed in the same position.



2. Hood Switch Installation.

a. Dislodge the Radiator Hose from its Clamps.

b. Dislodge the Radiator Hose from its Clamps.

c. Move the Radiator Hose downwards to gain access to the Hood Lock Assembly.

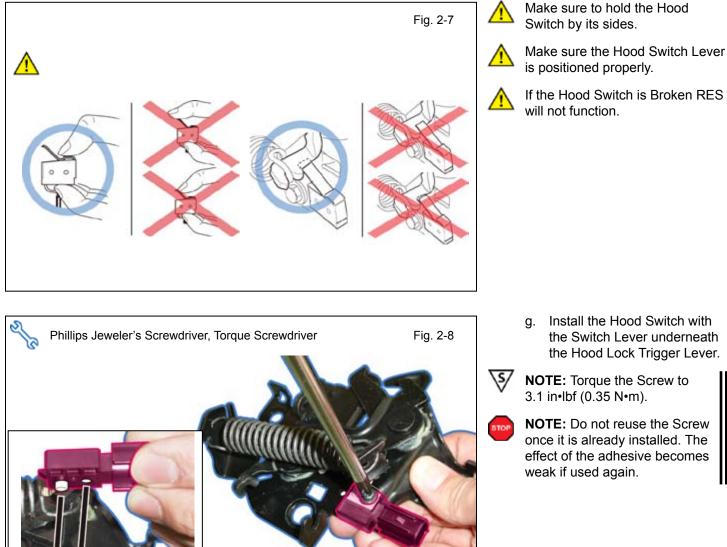
d. Dislodge the Hood Lock Assembly.

Remove 3 Bolts.

e. Remove the Hood Lock Assembly.

f. Remove the Hood Lock Cable from the Hood Lock Assembly.

TVIP V4 REMOTE ENGINE STARTER (RES)



Install the Hood Switch with the Switch Lever underneath the Hood Lock Trigger Lever.

NOTE: Torque the Screw to 3.1 in•lbf (0.35 N•m).

NOTE: Do not reuse the Screw once it is already installed. The effect of the adhesive becomes weak if used again.

h. Reinstall the Hood Lock Cable to the Hood Lock Assembly.

- i. Reinstall the Hood Lock Assembly.
 - Reinstall 3 Bolts..



NOTE: Torque the Bolts to 70.8 in•lbf (8.0 N•m) in the sequence shown.

- j. Remove the Tape securing the Vehicle's Hood Switch Pre-Connector Harness.
 - Remove 3 Tapes.

V4/V5 Add-on ONLY

k. Cut the Wire Tie securing the Jumper Connector.

V4/V5 Add-on ONLY

- I. Disconnect the Jumper Connector from the Vehicle's 2P Pre-Connector.
 - Discard the Jumper Connector.

m. Route the Vehicle's Hood Switch Harness toward the hood lock assembly.

n. Connect the Vehicle's 2P Pre-Connector to the V4 Hood Switch Connector.

TVIP V4 REMOTE ENGINE STARTER (RES)

- o. Secure the Hood Switch Harness to the Vehicle's Brace with 1 Wire Tie.
- p. Reinstall the Radiator Hose to its corresponding clamps.

3. Disassembly.

a. Remove the Passenger's Side Step Cover.

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

- c. Remove the Glove Box Under Cover.
 - Disconnect the Under Cover Light Connector.



Note: The V5 Microphone might be installed in the back of the Glove Box Under Cover.

- d. Disconnect the Dampener from the Glove Box.
- e. Remove the Glove Box.

f. Open then remove the Upper Glove Box.



Note: Add protective Tape to any pry area(s).

g. Remove the Cluster Side Panel.

<u>/!</u>`

Note: Add protective Tape to any pry area(s).

h. Remove the Center Air Conditioner Vent.



Note: Add protective Tape to any pry area(s).

i. Remove the Audio Unit.Remove 4 Bolts.



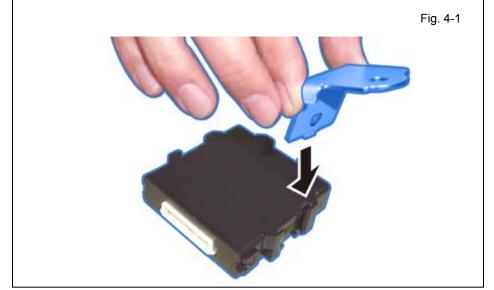
a. Attach the RES ECU Bracket to the RES ECU.

b. Remove the Bolt from the Vehicle's Brace.

- c. Position the RES ECU in the location shown.
- d. Install the RES ECU to the Vehicle's Brace using the same Bolt removed.

Note: Make sure the Guide Pin is

seated correctly.



e. Plug in the V4 24P Connector to the RES ECU.

f. Secure the V4 Harness White Tape Marker to the Vehicle's Brace with 1 Wire Tie.

g. Route the V4 Harness over the Vehicle's Harness.

- h. Secure the V4 Harness to the Vehicle Harness using 1 Wire Tie.
- i. Secure the V4 Harness to the Vehicle's Brace using 1 Wire Tie.

j. Disconnect the Vehicle's Black 12P Connector from the Vehicle's TPMS ECU.

k. Connect the V4 Black 12P Connector to the Vehicle's TPMS ECU.

I. Connect the Vehicle's Black 12P Connector to the V4 White 12P Connector.



VERIFY: That Vehicle's 12P Black Connector is connected to the V4 White 12P connector as this is for the TPMS ECU.

- m. Secure the V4 White 12P Connector to the Vehicle Harness using 1 Wire Tie.
- n. Secure the V4 Harness to the Vehicle Harness using 1 Wire Tie.

 Secure the V4 Harness to the Vehicle Harness using 1 Wire Tie.

V4 ONLY

p. Disconnect the Vehicle's 12P White Connector from the Vehicle's Connector Block.

q. Secure the V4 Harness to the Vehicle Harness using 1 Wire Tie.

r. Connect the V4 White 8P Connector to the Vehicle's 8P Pre-Connector.

V4 ONLY

s. Connect the Vehicle's 12P Connector to the V4 White 12P Connector.

t. Connect the V4 White 12P Connector to the Vehicle's Connector Block.

u. Secure the V4 12P Connector and V4 8P Harness to the Vehicle Harness using 2 Wire Ties.

V4/V5 Add-on ONLY

v. Connect the V4 White 8P Connector to the V5 8P Connector.

w. Cut the 2 Wire Ties securing the V5 Harness.

x. Disconnect the V5 White 12P Connector from the Vehicle's Connector Block.

V4/V5 Add-on ONLY

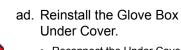
y. Connect the V5 White 12P Connector to the V4 White 12P Connector.

z. Connect the V4 White 12P Connector to the Vehicle Connector Block.

- aa. Secure the V4 and V5 12P Connectors to the Vehicle Harness and V5 8P Harness with 1 Wire Tie.
- ab. Secure the V4/V5 Harness to the Vehicle Harness with 2 Wire Ties.

V4/V5 Add-on ONLY

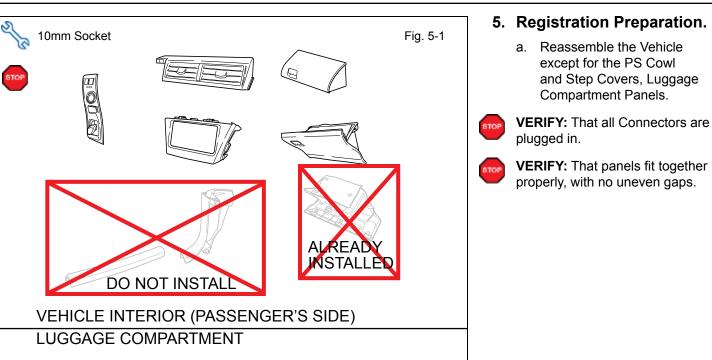
ac. Reconnect the GBS Mic 2P Connector to the V5 2P Connector.

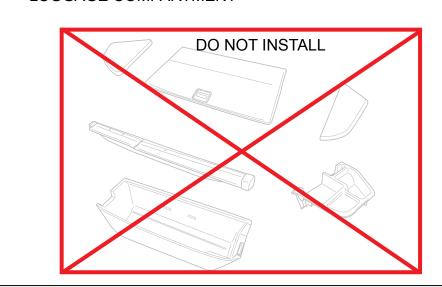


• Reconnect the Under Cover's Light Connector.



TVIP V4 REMOTE ENGINE STARTER (RES)





TVIP V4 REMOTE ENGINE STARTER (RES)

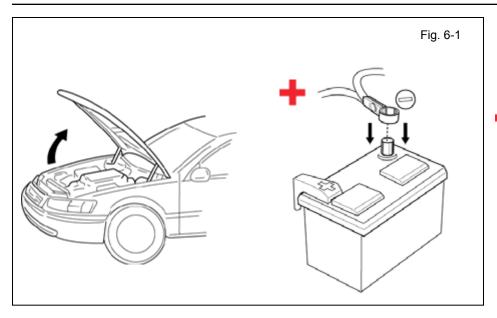
a. Open the Hood.

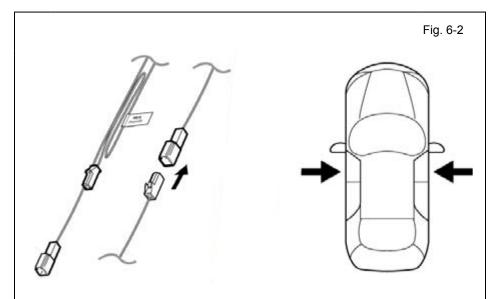
Positive Terminal.

b. Temporarily reconnect the Negative Battery Cable.

CAUTION: Do not touch the

6. Registration.

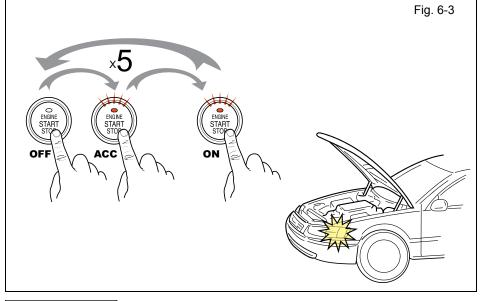




c. Locate the 1P RES Diagnostic Connectors in the Passenger's Side Cowl Area and connect them.

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

d. Close all doors.



- e. Place the Vehicle in Park (P) or Neutral (N) position.
- f. Cycle the Power Button from OFF to ON 5 times.

NOTE: One cycle consists of: OFF \rightarrow Accessory \rightarrow ON. This is equivalent to pressing the Power Button 14 times.

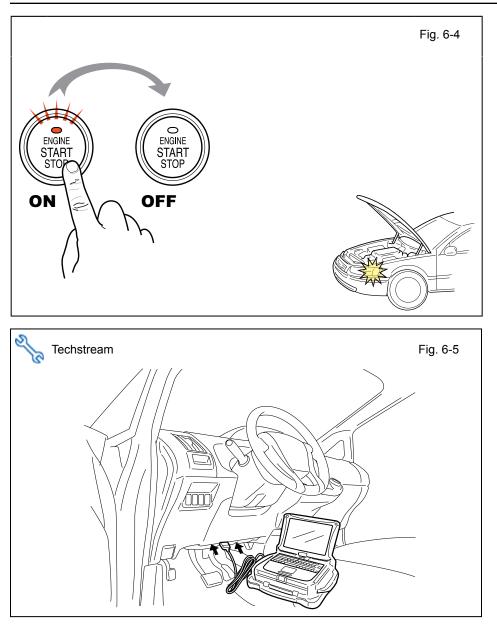
NOTE: Do not apply Brake pedal.

LOOK: For the Hazard Lights to Flash Once.

TOYOTA **PRIUS V**

TVIP V4 REMOTE ENGINE STARTER (RES)





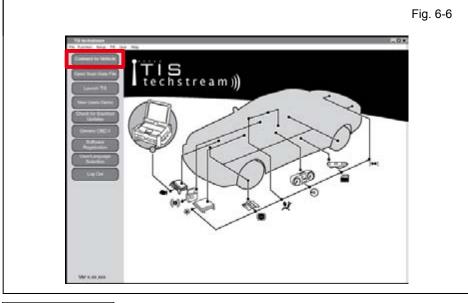
- g. Start the Engine.
- h. After 10 seconds stop the Engine.

LOOK: For the Hazard Lights to Flash Once.

IF THIS PROCEDURE FAILED

The Hazard Lights flash Three Times.

- Disconnect the V4 Harness's 1P **RES Diagnostic Connectors.**
- Start again from step c.
- i. Connect the Techstream Notebook to the Vehicle's Diagnostic Port.
- With the Smart Key in your j. possession, press the Power Button twice to select the Ignition "ON" position.



- Start the TIS Techstream k. Application by clicking on the shortcut located on the Desktop.
- Ι. Click "Connect to Vehicle."

m. Confirm that the information

displayed on the Vehicle Connection Wizard is correct for the vehicle. If not verify that the Techstream is

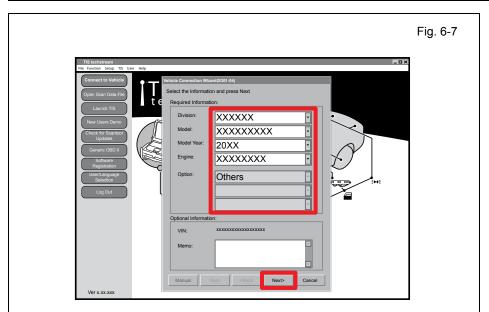
n. Select options that applies to

properly connected.

the vehicle.

Ο.

Click "Next>."



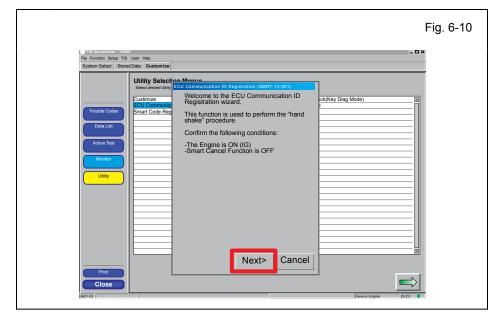
- p. Make sure that the "Body Electrical" tab is selected.
- q. Select "Smart Key."
- r. Click 📥 ·
- <caption>

Trockin Sets System Steld System Seted System Seted System Seted Utility Selection Menue Seted teared Utility and then press Next hadron. ECU Communication ID Registration Trockin Code Data Lat Active Test Utility Utilit	_ = ×
Trouble Codes	
Utility Selection Menue Select desired UMM and the press Next buttor. Trouble Codes ECU Communication ID Registration Data List Active Test Montor	
Select desired Utility and then press Next button. Trouble Code Data List Active Test Mondor	
Trouble Codes Trouble Code Table Trouble Code The Trouble	
Totalie Codes Data List Active Test Marmar	
Data List Adive Test Nonitor	
Active Test Monitor	
Active Test Monther	
Montar I	
Montar I	
Print	
Close	
S801-05 Caneric English	

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



v. Click "Next>."



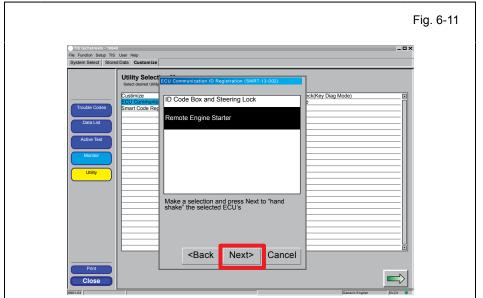


Fig. 6-12
TS technitram > 1645 Fe Functor. Sets TS tecr Hep System Sete(1) StoreData Costomize
Power loss View loss Production Communication 1D registration for Remote Data Lar Communication 1D registration for Remote Data Lar Communication 1D registration for Remote Umy Communication 1D registration for Remote

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

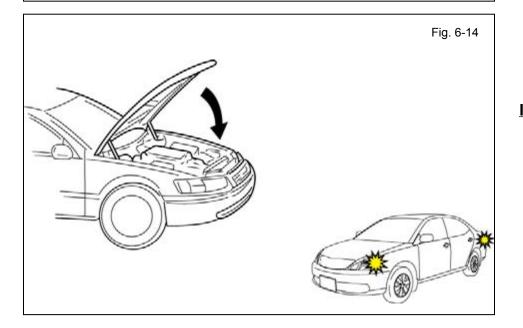
CONFIRM: That the ECU Communication ID was completed successfully.

y. Click "Exit".

Close

z. Click

File Function Setup TIS User Help	p		
System Select Stored Data C	ustomize		
Utility	y Selection Menue desired Utility and then press Next button.		
Custim	ize	Communication Check(Key Diag Mode)	
ECUC	Communication ID Registration	Smart Code Erasure	
Trouble Codes Smart	Code Registration	Smart Code Reset	
Data List			
Active Test			
Monitor			
Utility			



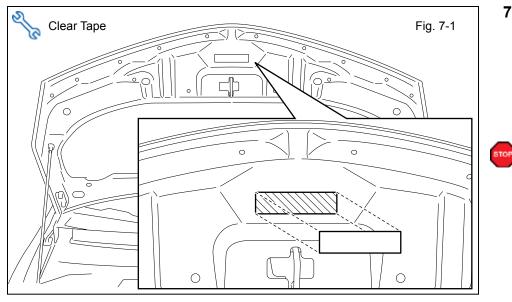
- aa. Exit the vehicle.
- ab. Close the Hood.
- ac. Look for the Hazard Lights to flash Twice.

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. Secure the RES Diagnostic Connectors and Harness to the Vehicle Harness using Electrical Tape.



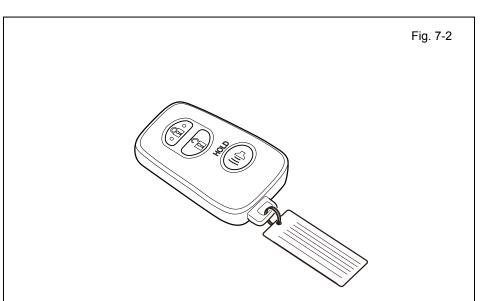
7. Tags and Labels.

- a. 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.

c. Attach the Key Tag.

REPEAT: with other Smart Key.



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



STOP

- **CAUTION:** Do not touch the adhesive surface.
- f. 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 Front door Window.

Issue B: 07/01/15

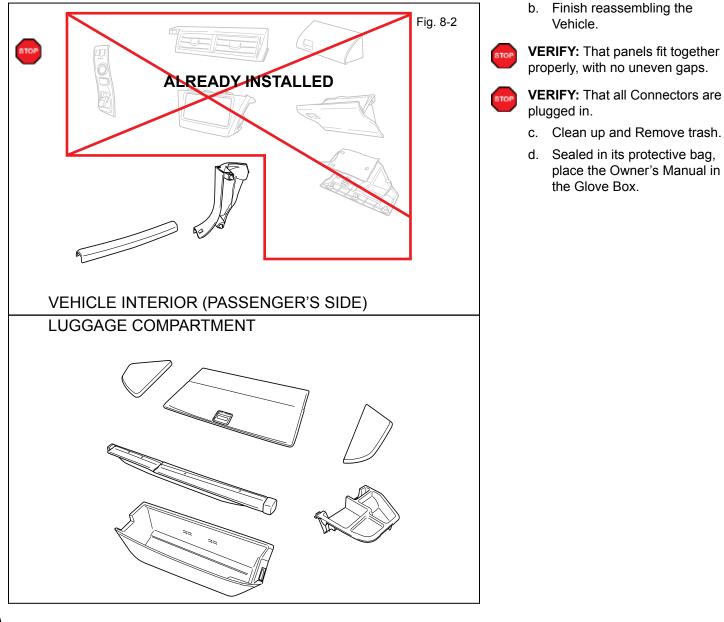
8. Complete the Installation.

a. 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.



TOYOTA PRIUS V

Accessory Function Checks

Close the hood, enter the vehicle and close all doors. Place the shift lever in the "N" (Neutral) 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.	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)

NOTE: If V5 (RS3200 plus) is installed, make sure to perform V5 Function Checks as well.

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.)

TVIP V4 REMOTE ENGINE STARTER (RES)

Vehicle Function Checks

		Function	Function
En	ter the	Vehicle	
		Dome/Courtesy Lights	Horn
Sta	art the \	/ehicle	
		Panel/Switch Illumination	Gauges
		Check Engine Light	 ABS Light (if equipped)

	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.			Track/Skid Control Light (if equipped) If the warning light remains on, it may indicate a system malfunction.	Ĵ
	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.	20		Service (PDS) of the Vehicle the TPMS light will blink when IG is turned on. After TPMS activation and PDS of the Ve-	
	Cruise Control Light (if equipped)		E hicle the TPMS light will illu	hicle the TPMS light will illuminate for a few seconds and go off when IG is turned on.	a few

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)

2015-

TVIP V4 REMOTE ENGINE STARTER (RES)

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)	HVAC
Steering Wheel Audio Control (if equipped)	Rear Window Defogger (if equipped)
Front Windshield Defogger (if equipped)	Accessory Power Socket (if equipped)
Side Mirror Defogger (if equipped)	Heated/Vented Seats (if equipped)
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