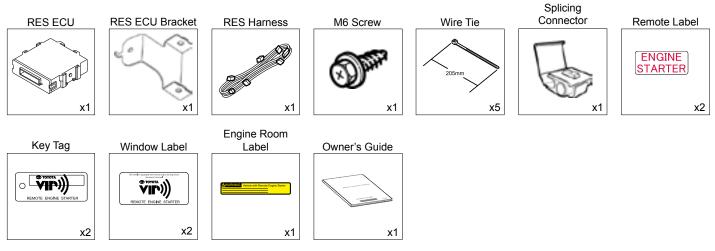
PREPARATION

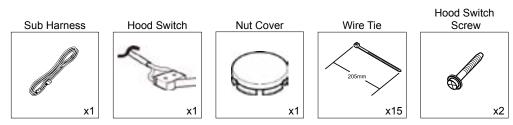
Part #: PT398-0T110

Conflicts:

Kit Contents



Hood Switch Sub Harness Kit: PT398-0T095 for Vehicles without Factory Alarm



Additional Items

(may be required)

ltem#	Description

Recommended Sequence of Application

ltem#	Description
1	V2 Glass Breakage Sensor (GBS)
2	V4 Remote Engine Starter (RES)

Recommended Tools

Personal & Vehicle Protection	Description
Safety Glasses	
Safety Gloves	(Optional)
Vehicle Protection	Blankets, Parts Boxes
Special Tools	
Techstream	Do not use Techstream Lite
Installation Tools	
Screwdriver	#2 Phillips, Phillips Jeweler's, Flat Blade Jeweler's
Nylon Panel Removal Tool	e.g. Panel Pry Tool #1 Toyota SST# 00002-06001-01
Side Cutters	
Torque Wrench	61 in•lbf (6.9 N•m); 66.4 in•lbf (7.5 N•m);
	70.8 in•lbf (8.0 N•m)
Таре	Clear, Electrical
Socket	10mm, extension
Pliers	Needle Nose, Pliers
Special Chemicals	
Cleaner	VDC Approved Cleaner
Glass Cleaner	Household Glass Cleaner

Will not program with Techstream Lite.

PREPARATION

Table	of	Contents	
Ι.	Pr	eparation	
	1.	•	
	2.	Wire Routing Overview	
	3.	Confirm Vehicle with/without Alarm	
١١.	Pr	ocedure	7-31
	1.	Hood Switch Installation	7
	2.	V4 Harness Preparation	
	3.	Disassembly (Driver's Side)	
	4.	V4 Harness Installation	
	5.	RES ECU Preparation and Installation	
	6.	V4 Harness Installation (Driver's Side)	
	7.	Registration Preparation	
	8.	Registration	24
	9.	Tags and Labels	
	10	. Complete the Installation	
111	. Cł	necklist	
	1.	Accessory Function Checks	
	2.	Vehicle Appearance Check	
	3.	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.

Indicates that torque is related to safety.

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.

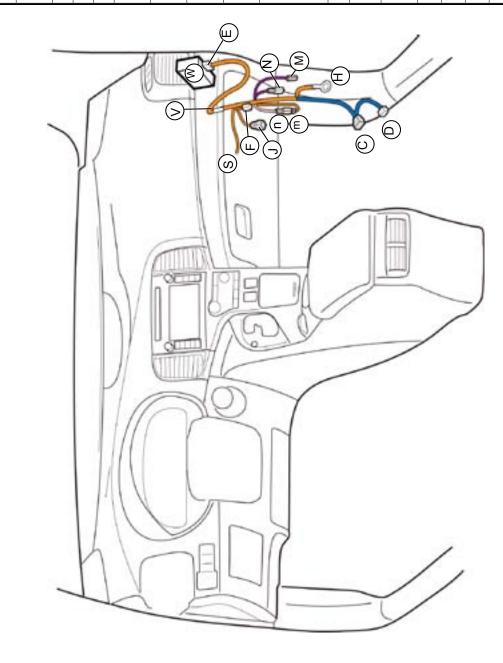
This document covers such items as:

- 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 Toyota dealer for a copy of this document.

PREPARATION

Description	18P Black	18P Black	22P White	22P White	24P White (for RES ECU)	5P White	Ground Terminal	5P White	1P White (for Hood SW GND)	1P White (For HS Sub-Hamess)	1P White (for Registration)	1P White (for Registration)	Wire Terminal (Red Wire) NOT USED NOT ON ALL HARNESSES	White Tape	RES ECU	1P White (For HS Sub-Hamess)				
Vehicle	I	I	DM2	DM2	I	I	D5	1	I	I	I	I	I	I	I	I				
TVIP	A	ш	ပ		ш	ш	Т	-	E	۲	Σ	z	S	>	>	×				



*Color of Harness on Overview corresponds with Colored Tape near Connectors on Harness.

Wire Harness Outline (Passenger's Compartment)*

VENZA with SMART with Alarm

TVIP V4 REMOTE ENGINE STARTER (RES)

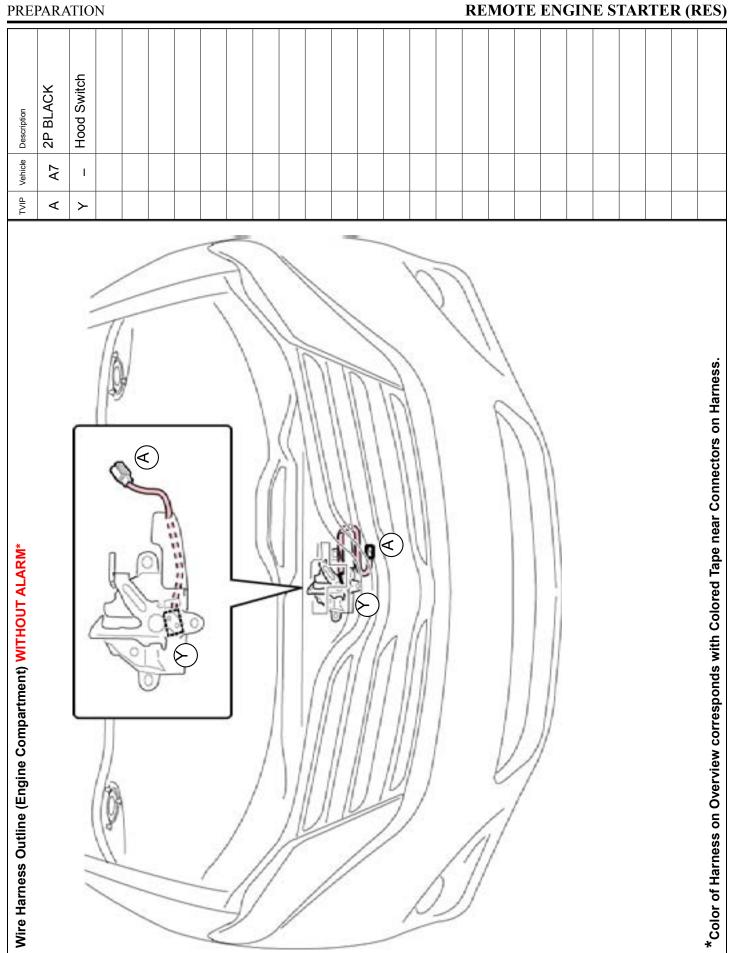
PREPARATION

PRE	PA.	KA	ПС	JIN											r	EMIC)TE E	ung	INE	51/	AKI	EK	(KI	72)
Description	18P Black			22P White	24P White (for RES ECU)	5P White	Ground Terminal	5P White	1P White (for Hood SW GND)	1P White (For HS Sub-Harness)	1P White (for Registration)	1P White (for Registration)	Wire Terminal (Red Wire) NOT USED NOT ON ALL HARNESSES	White Tape	RES ECU	1P White (For HS Sub-Harness)								
Vehicle	DA2	DA2	DM2	DM2	I	1	D5	I	I	I	1	I	I	I	I	1								
TVIP	4	ш	ပ		Ш	ш	т	٦	Е	c	Σ	z	ა	>	>	×								
VENZA with SMART without Alarm	Wire Harness Outline (Passenger's Compartment)*							T																*Color of Harness on Overview corresponds with Colored Tape near Connectors on Harness.

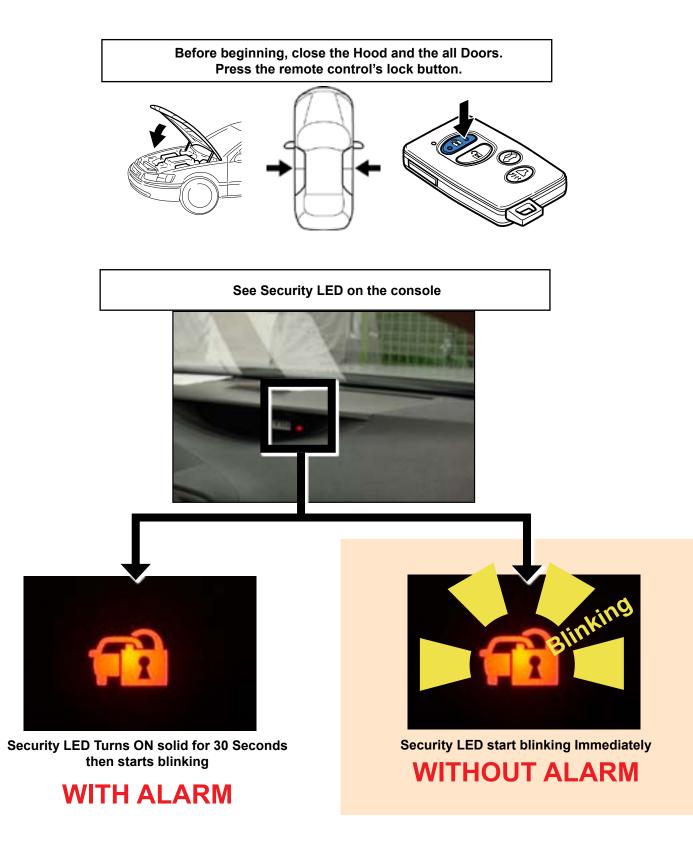
2009-

2009-

TVIP V4 REMOTE ENGINE STARTER (RES)

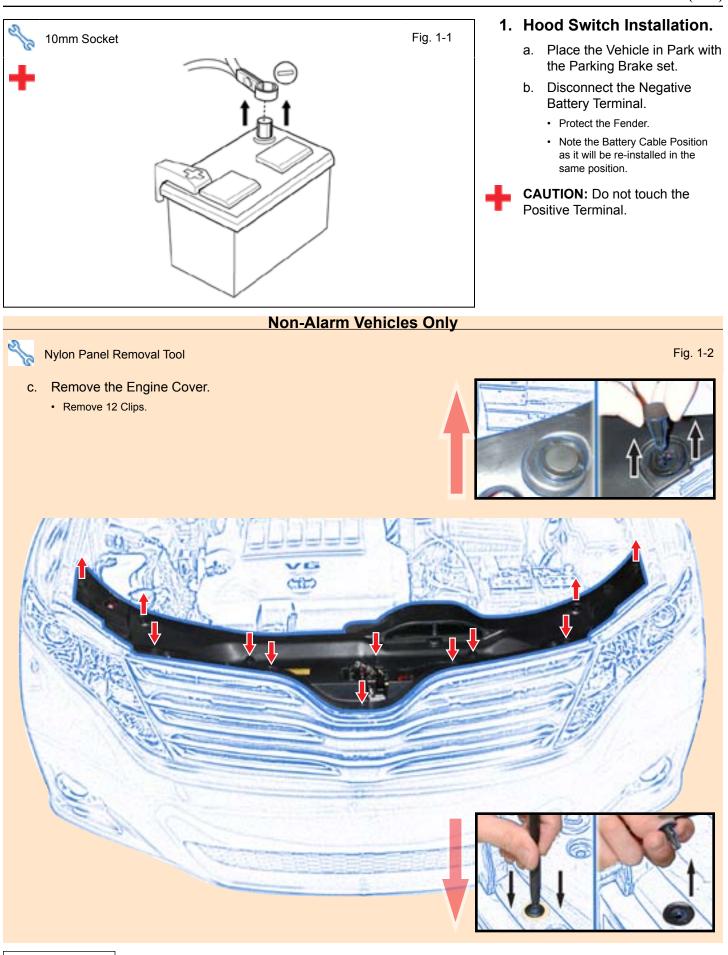


Confirm the following:



Issue G : 12/12/12

TOYOTA VENZA w/Smart PROCEDURE



Non-Alarm Vehicles only

- d. Remove the Nut Cover from the Hood Lock Assembly.
 - Discard the Nut Cover.

- e. Dislodge the vehicle's Hood Lock Assembly.
 - Remove 3 Bolts.

- f. Remove the Hood Lock Cable from the Hood Lock.
- g. Release the Spring from the Hood Lock.

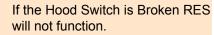
h. Install the Hood Switch with the Switch Lever underneath the Hood Lock Trigger Lever.



Make sure to hold the Hood Switch by the its sides.



Make sure the Hood Switch Lever is positioned properly.



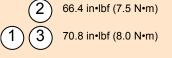
- i. Attach the Hood Switch Clip to the Hood Lock Assembly.
- j. Reinstall the Spring.

k. Connect the Hood Switch Connector to the Vehicle's Pre-Connector.

I. Install the Hood Lock Cable to the Hood Lock Assembly.

m. Reinstall the Hood Lock.

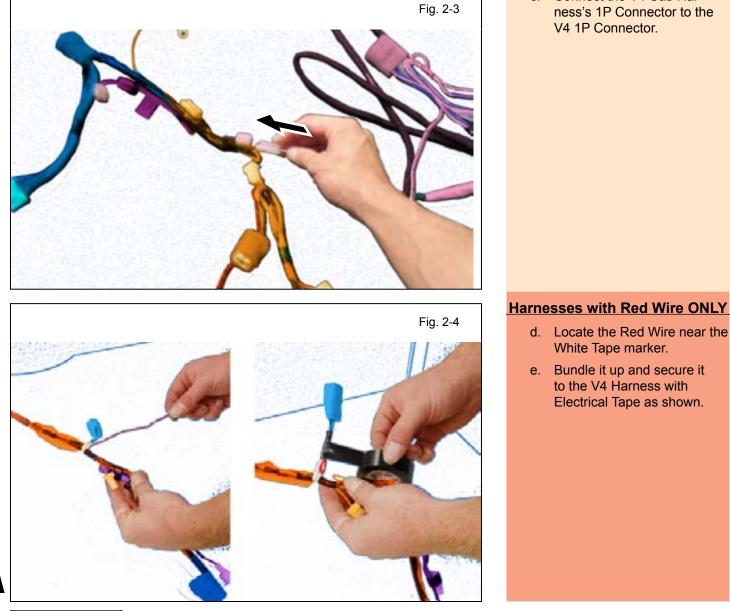
Make sure to Torque the Bolts.



2. V4 Harness Preparation.

a. Disconnect the 1P Connector.

b. Secure the disconnected 1P Connector to the V4 Harness with Electrical Tape.



ness's 1P Connector to the

c. Connect the V4 Sub Har-

Issue G : 12/12/12

TOYOTA VENZA w/Smart PROCEDURE

TVIP V4 REMOTE ENGINE STARTER (RES)

Disassembly Overview	1	Engine Cover
	2	DS Step Cover
5	3	DS Cowl Cover
RTMENT 8	4	DS Lower Dash Cover
COMPANY	5	Glove Box Under Cover
ENGINE COMPARTMENT	6	PS Step Cover
5	7	PS Cowl Cover
4	8	Glove Box
Non Comment		
PASSENGERS SIDE 3 BEE SIDE		
ALL THE TOT T		
DRIVERS SIDE		
2	-	
		connect all Corresponding nnectors.

Non-Alarm Vehicles only

3. Disassembly. (Driver's Side)

- a. Remove the Driver's side Step Cover.
 - Protect the Vehicle's Interior.

- b. Remove Driver's side Cowl Cover.
- c. Remove the Clip if it stays in the vehicle.

TOF

- Carefully remove otherwise it will fall inside the vehicle.
- d. Attach the Clip on the Cowl Cover.

e. Remove the Lower Dash.

• Remove 1 Bolt and 1 Screw.

f. Remove the Glove Box Under Cover.

g. Remove the Passenger's Step Cover.

- h. Remove the Passenger's side Cowl Cover.
- i. Remove the Clip if it stays in the vehicle.
 - Carefully remove otherwise it will fall inside the vehicle.
- j. Attach the Clip on the Cowl Cover.

- k. Remove the Glove Box.
 - Remove 4 Screws and 1 Bolt.

4. V4 Harness Installation.

Non-Alarm Vehicles Only

a. Route the V4 Sub-Harness over the Passenger's side Vehicle Brace as shown.

V4 ONLY

b. Connect the V4 5P Connector to Vehicle's 5P Pre-Connector.

c. Secure the White Tape Marker and the 5 Pin Connectors to the Vehicle Harness with 1 Wire Tie.

V4/V2 ADD-ON ONLY

- d. Cut the Wire Tie securing the V2 5P Connector.
- e. Disconnect the V2 5P Connector and the Vehicle's 5P Connector.

f. Remove the Electrical Tape securing the V4 5P Connector.

g. Connect the V4 5P
Connector to the Vehicle's
5P Connector. Connect the
V4 5P Connector to the V2
5P Connector.

 h. Bundle up both sets of connectors and secure them and the V4/V2 Harnesses to the Vehicle Harness with 1 Wire Tie.

V4 ONLY

i. Disconnect Vehicle's 22P Connector in the Passenger's side Cowl area.

j. Connect the V4 22P Connectors in between the Vehicle's 22P Connectors.

V4/V2 ADD-ON ONLY

k. Cut the Wire Tie securing the V2 22P Connector.

I. Disconnect the Vehicle's 22P Connector from the V2 Connector.

m. Plug the V4 22P Connector to the V2 22P Connector.

n. Connect the Vehicle's 22P Connector to the V4 22P Connector.

- o. Remove the Vehicle's Ground Terminal Bolt.
- p. Secure the V4 Ground Terminal to the Vehicle's Ground Terminal with the same Bolt.

- q. Secure the V4 Connector to the Vehicle Harness with 1 Wire Tie.
- r. Secure the Male 1P RES Diagnostic Connector to the Vehicle Harness with 1 Wire Tie.

CAUTION: Do not secure the Female 1 Pin Connector or its bundled excess wire.zSecure the RES Harness to the Vehicle Harness with 1 Wire Tie.

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5. RES ECU Preparation and Installation.

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

b. Plug the V4 24P Connector into the RES ECU.

- c. Install RES ECU on the Vehicle's Reinforce.
 - Tighten the M6 Tapping Screw.



CAUTION: Do not over tighten the Screw.

Non-Alarm Vehicles Only

d. Disconnect the Vehicle Harness behind the Passenger's Glove Box.

- e. Route the V4 Harness along the Passenger's Reinforcement.
- f. Secure the V4 Harness to the Vehicle Harness with 4 Wire Ties.
- g. Reconnect the Vehicle Harness behind the Passenger's Glove Box.

6. V4 Harness Installation. (Driver's Side)

- CAUTION: Sharp metal edges.
- Route the V4 Harness through the Passenger's Brace and secure with 1 Wire Tie.
- b. Route the V4 Harness through the Center Console.
- c. Route the V4 Harness through the Driver's Brace and secure with 1 Wire Tie.
- d. Route and secure the V4 Harness along the Vehicle Harness under the Column cover with 2 Wire Ties.
- e. Route and secure the V4 Harness along the Vehicle Harness in front of the Driver's J/B with 2 Wire Ties.

Issue G : 12/12/12

f. Route and secure the V4 Harness along the Vehicle Harness near the Driver's side Cowl with 2 Wire Ties.

g. Disconnect the Vehicle's BLACK 18P Connector.

- h. Connect the V4 18P Connectors in between the Vehicle's 18P Connectors.
- i. Use a Wire Tie to secure the 18P Connectors to the Vehicle Harness.

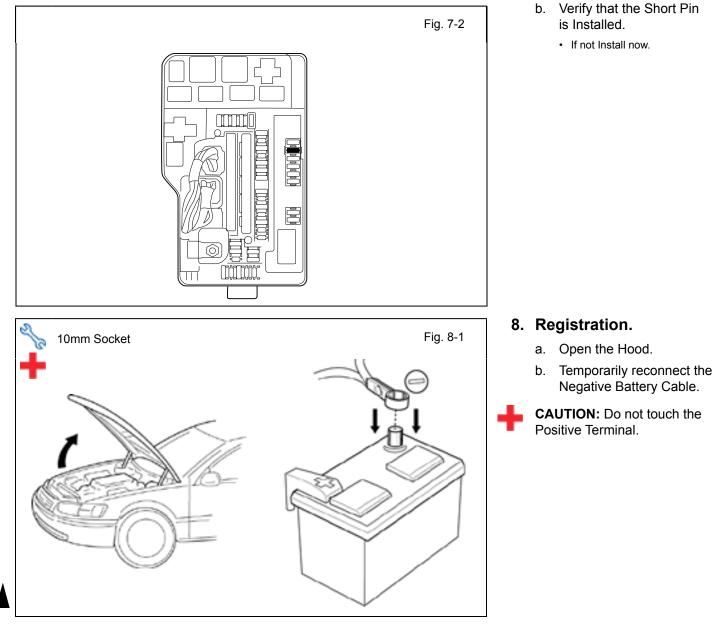
7		Registration	Preparation.
-	-		

a. Reassemble the Vehicle.



VERIFY: Make sure that all Connectors are reconnected.

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



ΤΟΥΟΤΑ **VENZA w/Smart** PROCEDURE

TVIP V4 REMOTE ENGINE STARTER (RES)

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-x.

d. Close all doors.

- e. Place the Vehicle in Park (P).
- Cycle the "Engine Start Stop" f. button from OFF to ON 5 times.

NOTE: One cycle consists of: $OFF \rightarrow Accessory \rightarrow ON$ This is equivalent to pressing the "Engine Start Stop" Button 14 times.

LOOK: For the Hazard Lights to Flash Once.

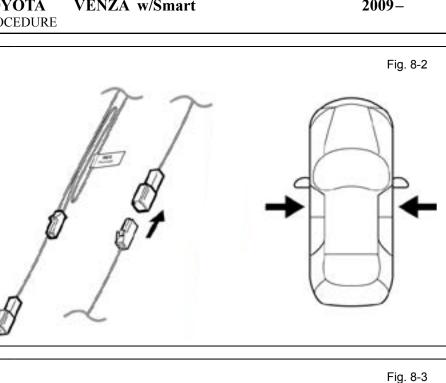
- Start the Engine. g.
- h. After 10 seconds stop the Engine.

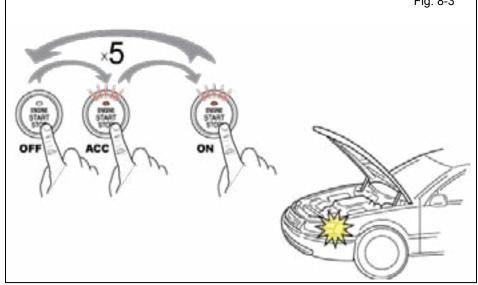
LOOK: For the Hazard Lights to flash Once.

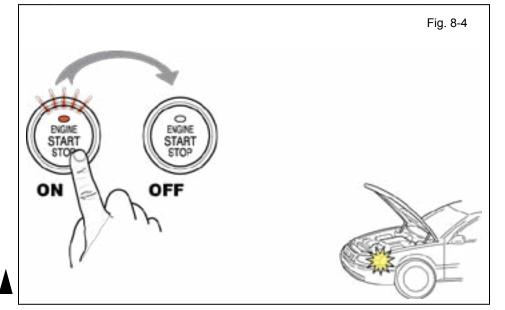
IF THIS PROCEDURE FAILED

The Hazard Lights won't flash or flashes Twice.

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







TOYOTA VENZA w/Smart PROCEDURE

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."

- 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 w/Smart Key.
- o. Click "Next>."

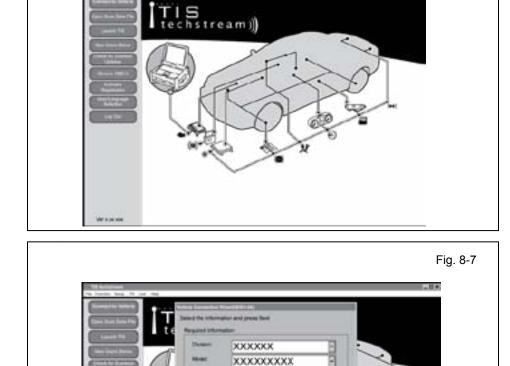
And Control (1994)

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20XX

XXXXXXXXX w/ Smart Key

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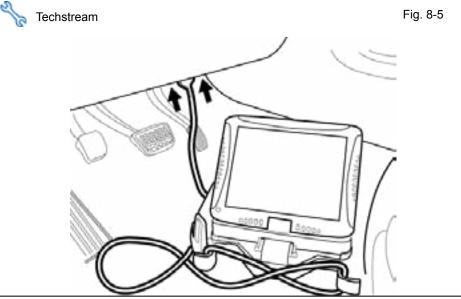


Fig. 8-6

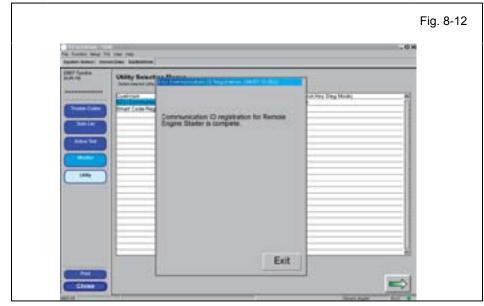
- p. Select "Smart Key."
- q. Click 🗲

- r. Click on "Utility."
- s. Select "ECU Communication ID Registration."
- t. Click 📥
- Fig. 8-9

le fusio del 10 me 10 Igno del función lucione		.0x
URU Ausan See normality See of the sec of t	A Name Weoper to the ECU Communication ID Repaination wears: This function is used to perform the Twent white "possible: Conferm the following conditions: -The Engine is CM (C) -The Engine is CM (C) -The Engine is CM (C)	14.142 Stag Monte
	Next> Cancel	1

Issue G : 12/12/12

u. Click "Next>."



- x. CONFIRM: That the ECU
- Communication ID was completed successfully.
- y. Click "Exit."

IF THIS PROCEDURE FAILED

• Start again from step n.



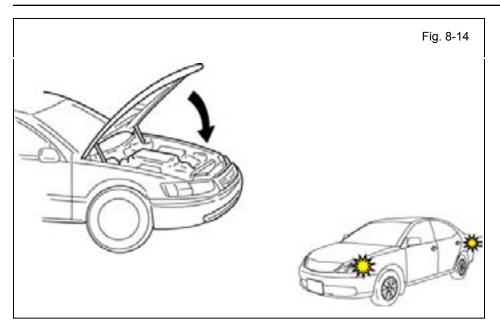
v. Select "Remote Engine Starter."

TVIP V4

w. Click "Next>."

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TOYOTA VENZA w/Smart PROCEDURE



aa. Exit the vehicle.

2009-

- ab. Close the Hood.
- ac. Look for the Hazards to flash Twice.

IF THIS PROCEDURE FAILED

The Hazard Lights flashes Three Times.

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

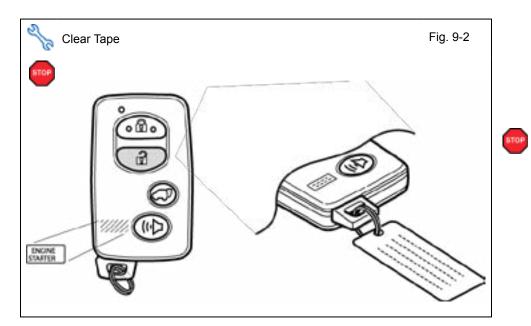
- ad. After a successful registration, disconnect the 1P RES Diagnostic Connectors.
- ae. Secure the Female 1P Connector and Harness to the Vehicle Harness using Electrical Tape.

9. Tags and Labels.

- a. Using VDC approved cleaner and cleaning method, clean the area indicated in the Engine Compartment Cover.
- b. Attach the Engine Room Warning Label centered horizontally with the hole in the Hood and vertically in the flat space.



CAUTION: Do not touch the adhesive surface.



- c. 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.
- f. Attach the Key Tag.

REPEAT: steps c-f with the other Key.

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

TOF

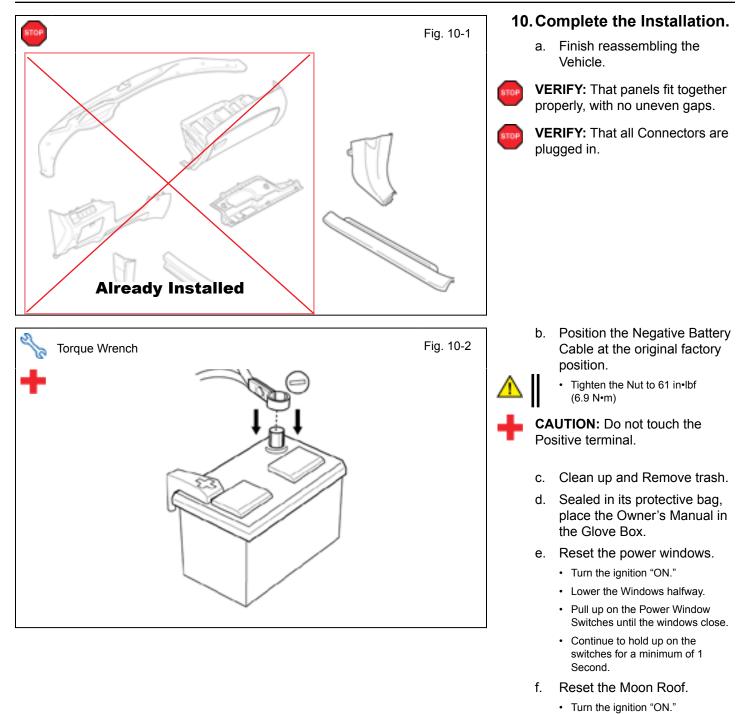
- CAUTION: Do not touch the adhesive surface.
- i. Attach the Label as shown.

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

REPEAT: steps g-i with the other Front Window.

Issue G : 12/12/12





- 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.

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>Some Vehicles may require you to</i> <i>exit the Vehicle and pull up on the Hood.</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)
3	Move the shift lever out of "P" (Park). Attempt to start the Vehicle using the remote.	The engine does not start.

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.)

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

Vehicle Function Checks

		Function		Function	
En	Enter the Vehicle				
		Dome/Courtesy Lights		Steering Wheel Column Adjusts Without Interference	
		Horn			
Sta	art the \	/ehicle			
		Starter		Gauges	
		Panel/Switch Illumination		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) 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. After TPMS activation and PDS of the Ve- hicle the TPMS light will illuminate for a few seconds and go off when IG is turned on.	
		Cruise Control Light (if equipped)	ISE C		

2009-

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)

TOYOTA VENZA w/Smart 2009–

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)		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)		
	Glove Box Light (if equipped)		Passenger Air Bag Switch (if equipped)
	Power Locks (if equipped)		Power Windows (if equipped)
	Power Seats (if equipped)		Key Sensor Buzzer

Remove the short pin after Function che Check with your Port/Dealer to see if this si	