TOYOTA VENZA

PREPARATION

Part #: PT398-0T092

Conflicts:

Do not install into Vehicles without Factory Alarm System.

Kit Contents



Service Part #'s

Additional Items

(may be required)

ltem#	Description

Recommended Sequence of Application

ltem#	Description
1	TVIP V2 Glass Breakage Sensor
2	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 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	
Таре	Clear
Socket	10mm
Torque Wrench	61 in•lbf (6.9 N•m)
Special Chemicals	
Cleaner	VDC Approved Cleaner
Glass Cleaner	Household Glass Cleaner

2009-

Table of Contents

PREPARATION

Ι.	Preparation	
	1. Table of Contents	2
	2. Wire Routing Overview	3
11.	Procedure	4-14
	1. Disassembly (Engine Compartment)	4
	2. Disassembly (Passenger's Side)	5
	3. V2 Harness Installation	6
	4. GBS ECU Preparation and Installation.	
	5. GBS Microphone Installation.	12
	6. Completing the Installation	14
	7. Window Label Installation.	14
III.	. Checklist	15–17
	1. Accessory Function Checks	15
	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.

TOYOTA VENZA

PREPARATION



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

White Tape Marker **GBS** Microphone **Ground Terminal** 8P White (for GBS ECU) 2P White (for GBS Mic) 2P White (for GBS Mic) 22P White 22P White GBS ECU 5P White Description DM2 DM2 Vehicle D5 I I T I L Т I TVIP ∢ ш C ш ш Ġ Σ т



TOYOTA VENZA PROCEDURE

TVIP V2 GLASS BREAKAGE SENSOR (GBS)

1 Glovebox Under Cover
2 PS Sten Cover
3 PS Cowl Cover
4 Glovebox
Disconnect all Corresponding Connectors.
ig. 1-1 1. Disassembly. (Engine Compartment)
 a. Place the Vehicle in Park with the Parking Brake set. b. Disconnect the Negative Battery Terminal. Protect the Fender. Note the Battery Cable Position as it will be re-installed in the same position. CAUTION: Do not touch the Positive Terminal.

2. Disassembly. (Passenger's Side)

- a. Remove the Glove Box Under Cover.
 - Protect the Vehicle's Interior.

b. Remove the Passenger's Step Cover.

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

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

3. V2 Harness Installation.

- a. Route the V2 Harness behind the Vehicle's Brace.
- Secure the V2 Harness White Tape Marker to Vehicle's Harness near the Clamp with 1 Wire Tie.

V2 ONLY

c. Disconnect the Vehicle's 22P Connector from the Passenger's side Cowl Area.

d. Plug the V2 22P Connectors in between the Vehicle's Connectors in the Passenger's side Cowl Area.

V4/V2 ADD-ON ONLY

e. Cut the Wire Tie securing the V4 22P Connector.

f. Disconnect the Vehicle's 22P Connector from the V4 Connector.

- g. Plug the V4 22P Connector to the V2 22P Connector.
- h. Plug the Vehicle's 22P Connector to the V2 22P Connector.

- i. Remove the Bolt.
- j. Secure the V2 Ground Terminal to the Vehicle's Ground Terminal using the same Bolt.

- k. Secure the V2 Connector to the Vehicle Harness with 1 Wire Tie.
- I. Secure the V2 Harness to the Vehicle Harness with 2 Wire Ties.

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

V2 ONLY

n. Plug the V2 5P Connector to the Vehicle's 5P Connector.

Secure the V2 5P Connector to the Vehicle's Harness with 1 Wire Tie.

V4/V2 ADD-ON ONLY

- p. Cut the Wire Tie securing V4 5P Connector.
- q. Disconnect the Vehicle's 5P Connector from the V4 Connector.

- r. Remove the tape securing the V4 5P Connector.
- s. Connect the Vehicle's 5P Connector to the V4 5P Connector.
- t. Connect the V4 5P Connector to the V2 5P Connector.

u. Secure the V4/V2 Connectors to the Vehicle Harness with 1 Wire Tie.

4. GBS ECU Preparation and Installation.

a. Adjust the GBS sensitivity value to "8."

b. Attach the GBS Bracket to the GBS ECU as shown.

- c. Connect V2 Harness to the GBS ECU.
- d. Install GBS ECU to the Passenger's Reinforce.
 - Tighten the M6 Tapping Screw.



Issue D : 12/12/12

- e. Secure the V2 Harness to the Vehicle Harness with 3 Wire Ties.
- f. Reconnect the Vehicle's Harness behind the Glovebox area.

5. GBS Microphone Installation.

тор

TOF

- a. Reassemble the Vehicle except for the Glovebox Under Cover.
- **Verify:** That that all Connectors are reconnected.
- **Verify:** That panels fit together properly, with no uneven gaps.

Vehicles equipped with Insulation Pad Only

b. Remove the Vehicle's Insulation Pad from the Glovebox Under Cover.

TOYOTA VENZA PROCEDURE



- c. Using VDC approved Cleaner and Cleaning Method clean the area indicated on the Glovebox Under Cover.
- d. Remove the protective backing from the GBS Mic.
- **CAUTION:** Do not touch the Adhesive Surface.
 - e. Attach the GBS Mic on the Glovebox Under Cover.
- f. Use 1 Foam Tape to secure the GBS Microphone to the Glovebox Under Cover.

CAUTION: Do not cover the Microphone's opening.

g. Connect the V2 Harness to the GBS Microphone.



- Reinstall the Insulation Pad to the Glovebox Under Cover. (if equipped)
- i. Reinstall the Glovebox Under Cover.

6. Completing the Installation.

a. Verify if the Short Pin is installed.

• If not, install now.

b. Position the Negative Battery Cable at the original factory position.

 Tighten the Nut to 61 in•lbf (6.9 N•m)

 CAUTION: Do not touch the Positive Terminal.

- c. Clean up and Remove trash.
- d. Sealed in its protective bag, place the Owner's Manual in the Glovebox.

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 from the protective backing.



STOP

c. 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.

T

2009-

Accessory Function Checks

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

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

For Smart Vehicles: Take out the Smart Key and place them 7 ft. (2 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.

For Smart Vehicles: If the alarm does not trigger during functional verifications the Smart 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.)

ΤΟΥΟΤΑ VENZA

2009-CHECKLIST – these points **MUST** be checked to ensure a quality installation.

	Function		Function
er the	Vehicle		
	Dome/Courtesy Lights		Horn
art the	Vehicle		
	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)
	Air Bag Warning Light If the warning light remains on, it may indicate a system malfunction.		(PDS) of the Vehicle the TPMS light will blink when IG is turned on.
	Cruise Control Light (if equipped)		TPMS light will illuminate for a few seconds and go off when IG is turned on.
sing 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)		1
op the	Engine, Place the Vehicle's IG in the ON posit	ion.	
	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)

ΤΟΥΟΤΑ	VENZA	2009-
CHECKLIST -	these points MUST be che	ecked 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)	Steering Wheel Heater (if equipped)
	Front Windshield Defogger (if equipped)	Rear Window Defogger (if equipped)
	Blind Spot Monitor (BSM) (if equipped)	Accessory Power Socket (if equipped)
	Side Mirror Defogger (if equipped)	Heated/Vented Seats (if equipped)
	Massage Seats (if equipped)	Passenger Air Bag Switch (if equipped)
	Glove Box Light (if equipped)	Trunk Cancel Switch (if equipped)
-		
	Power Locks (if equipped)	Power Windows (if equipped)
	Power Seats (if equipped)	Key Sensor Buzzer (for non-Smart vehicles)

