

Service

Category Engine/Hybrid System

Section Hybrid/Battery Control System Market USA

Toyota Supports ASE Certification

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION		
2012	RAV4 EV			

**REVISION NOTICE** 

July 29, 2013 Rev1:

• The Warranty Information and Calibration Information sections have been updated.

Any previous printed versions of this bulletin should be discarded.

#### Introduction

The EV Gateway Control ECU logic has been updated to improve vehicle operation and charging timer operation. Use the following procedure to reprogram the ECU.

#### Warranty Information

OP CODE	DESCRIPTION		OFP	T1	T2
EL1310	Reprogram EV Gateway Control ECU	0.5	89881-0R011	99	99

APPLICABLE WARRANTY

- This repair is covered under the Toyota Powertrain Warranty. This warranty is in effect for 60 months or 60,000 miles, whichever occurs first, from the vehicle's in-service date.
- Warranty application is limited to occurrence of the specified condition described in this bulletin.

#### **Calibration Information**

MODEL PREVIOUS CALIBRATION ID		NEW CALIBRATION ID		
RAV4 EV	1.3.57	1.3.62		

#### **Parts Information**

PREVIOUS PART NUMBER	CURRENT PART NUMBER	PART NAME	QTY
89881-0R011	Same	Computer, EV Gateway Control	_
00451-00001-LBL	Same	Authorized Modification Labels	1

#### NOTE

• The ECU should NOT be replaced as part of the repair procedure.

 Authorized Modification Labels may be ordered in packages of 25 from the Materials Distribution Center (MDC) through *Dealer Daily – Dealer Support Materials Orders*.

#### Required Tools & Equipment

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
Techstream 2.0*	ADE	TS2UNIT	1

NOTE

• Only Techstream 2.0 should be used for this update.

• Techstream Software version 8.20.019 or later is required.

- Tesla Powertrain Service Diagnostic Software version 0.5.23 or later is required.
- Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787.

SPECIAL SERVICE TOOLS (SST)	PART NUMBER	QTY
GR8 Battery Diagnostic Station*	00002-MCGR8	1
EV HV Powertrain Diagnostic Cable Kit**	82824-36150-01	1

#### NOTE

Additional SSTs may be ordered by calling 1-800-933-8335.

\* Essential SST.

\*\* Special order.

#### **Repair Procedure**

 Check for the Authorized Modifications Label affixed to the vehicle in the location shown in Figure 1. Confirm if the ECU calibration has been updated. If the calibration ID listed is NOT the latest ECU calibration — go to step 2.

Figure 1. Location of Authorized Modifications Label on 2012 RAV4 EV

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1	Replacement ECU Part Number (i.e., 89881-0R011)
2	New Calibration ID(s) (i.e., 1.3.62)
3	Dealer Code

4	Date Completed	
5	This SB Number	

#### Repair Procedure (Continued)

2. Flash reprogram the EV Gateway Control ECU.

NOTE

- The GR8 Battery Diagnostic Station MUST be used in Power Supply Mode to maintain battery voltage at 13.5 volts while flash reprogramming the vehicle.
- For details on how to use the GR8 Battery Diagnostic Station, refer to the <u>GR8 Instruction Manual</u> located on the Technical Information System (TIS), *Diagnostics Tools & Equipment Battery Diagnostics.*

Follow the procedures outlined in Service Bulletin No. <u>T-SB-0043-13</u>, "RAV4 EV ECU Flash Reprogramming Procedure", and flash reprogram the ECU with the NEW calibration file update.

3. Install the Authorized Modifications Label.

A. Using a permanent marker, enter the following information on the label:

- ECU part number [Refer to the Parts Information section for the CURRENT PART NUMBER]
- Calibration ID(s) [Refer to the Calibration Information chart for the NEW CALIBRATION ID]
- Dealer Code
- Repair Date
- Change Authority [This SB number]
- B. Affix the Authorized Modifications Label to the vehicle at the location shown in Figure 1. The Authorized Modifications Label is available through the MDC, P/N 00451-00001-LBL.
- 4. Test drive the vehicle to confirm proper vehicle operation.

# TOYOTA VENZA 2014 PRE-DELIVERY SERVICE CHECK SHEET

						July 2013
BEFORE INSPE	ECTION	OK Adjust	Repair	UNDER VEH	IICLE (ON HOIST)	OK Adjust Repair
01 Install antenna				01 Remove disc	brake anti-rust covers/anti-corrosion	_
FUNCTIONAL 0	OPERATION			wheel film* 02 Inspect tires f	or defects/damage	
Apply parking brake and of turn on lights and rear de	cycle ignition "IG-ON"; place gear selector in rev forger, Unlock doors: release fuel door	erse;		03 Verify Tire Pro	essure Warning System (TPWS) <b>(see</b>	
turn on lights and rear der 01 Check dome, cou 02 Check warning/in 03 Check windshield 04 Check headlights emergency flashe 05 Check inside/outs adjustment 06 Check cigarette li 07 Check audio/navi set clock	fogger. Unlock doors; release fuel door. Intesy, map, and sun visor lights* dicator lights, gauges, and horn wipers and washers , instrument lights, turn signals, ers, and brake lights side rear view mirror operation/ ghter* and power outlets gation*/backup camera* systems and			04 Install wheel of 05 Inspect for fue 06 Inspect under 07 Visually check for looseness 08 Install rubber console) ROAD TEST A complete road test variety of road surfac driving performance.	covers/caps/spare tire wheel covers* el, oil, coolant, and other fluid leaks the vehicle for damage, rust, etc & bolts and nuts on chassis and powertrain body plugs* (stored in glove box or center helps assure customer satisfaction. Drive vehicle ov es and driving conditions. Check for unusual noise a	rer a nd
08 Verify Entune/Na Audio, Non-HDD 09 Check sliding roo	avigation software version (Display ) Type only)* f*		]	Enter Odometer Rea	adings	
10 Install shift-lock o 11 Check Rear Seat	verride button cover Entertainment System operation*		]	Reading Before Test:	Reading After Test:	
WALKAROUNE Start at left front door. Ch switch, if equipped). Cor checking each door and condition, all lights, lugge aim and continue into UN	DINSPECTION eck window and door lock operation (from mast tinue around vehicle in a counterclockwise window operation, child door locks, seat belts ge compartment contents. Finish by checking in DER HOOD checks.	l er power direction , interior headlight	r n r t	01 Check cold ef 02 Check engine 03 Check engine 04 Check automa 05 Check brake a 06 Check steerin 07 Inspect for ab	operation during warm-up	
01 Check Smart Ke 02 Check door and o wireless remote o 03 Check window op	y System* loor lock operation, including each control/theft deterrent system* peration		]	08 Inspect for sq 09 Check front at 10 Check cruise 11 Check front se 12 Set/calibrate c	and rear* heater and A/C operation control operation* eat heater/ventilation operation* compass* (see page 2)	
<ul> <li>04 Check that engine</li> <li>05 Check that child so (unlocked) position</li> <li>06 Check seats and</li> <li>07 Check rear defogoing</li> <li>08 Check side market</li> <li>09 Check luggage control</li> <li>10 Adjust spare tire to check jack and to to the check headlight and theadligh</li></ul>	e starts with all keys safety door locks are in normal on seat belt operation ger/rear view mirror defogger* er, tail, backup, and license plate lights ompartment light* and trim appearance pressure, inspect for damage, and iol installation		J D D D D D D D D	01 Remove interi tags, etc. (Ren 02 Visually inspe damage, fit, d 03 Verify floor m retaining clip 04 Remove Rapg 05 Wash and cle 06 Inspect paint fi damage etc	or protective covers, unnecessary labels, move just before delivery to customer) ct all interior parts for installation, irt, etc	
UNDER HOOD         01 Check engine oil level         02 Check brake fluid level         03 Check engine coolant level         04 Check windshield washer fluid level         05 Check battery state-of-charge using Digital Battery         System Analyzer (SOC Reading:%)         06 Inspect for fuel, oil, coolant, and other fluid leaks				<ul> <li>07 Inspect exterior damage, rust, 08 Place oil chan left corner</li> <li>09 Place Owner's 10 Perform Techs 11 Install front lic page 2)</li> <li>* Inspect or install</li> </ul>	or body parts for proper installation, etc ge sticker on inside of windshield, top s Guide & first aid kit portfolio* in glove box stream Health Check ense plate and mounting bracket* (see	
Completion and retention	of this from is required to comply with Toyota's URE SERVIC	Warranty	y Po	Dicy.	We hereby certify that all i on this form have been ch and corrected for prop operation as required	tems ecked er
NAME (PLEASE PRINT) NAME (PL			E PF	RINT)		
Date	Dealer Name		D	ealer Code	Vehicle Identification Number (Sticker)	

### **TPWS VERIFICATION**

- 1. Connect Techstream to DLC3.
- 2. Adjust all tires (except the spare tire) to the standard tire inflation pressure, as indicated on the tire and loading information label on the vehicle.
- 3. Cycle the ignition switch to the "IG-ON" mode.

#### NOTE

To adjust the tire pressure correctly when the outside temperature is significantly colder than shop temperature, perform a Health Check using Techstream and select the "Compensation Tire Pressure" checkbox. Compensation pressures will be displayed on the Health Check results screen. Adjust the tire pressure when the tires are cold.

- 4. Check the tire pressure of all tires using Techstream. If the tire pressure values cannot be displayed, the system is not operating properly. Refer to the Repair Manual.
- 5. Remove the ID number labels that are attached to each wheel and discard.

#### NOTE

If the tire pressure values are not properly displayed (example: showing -14 psi, -100 kPa, etc.) the data from the transmitter has not been received.

COMPASS CALIBRATION

Refer to the Repair Manual for the Calibration procedure for vehicles equipped with a compass in the rear view mirror.

#### NOTE

- Do NOT perform calibration of the compass in a place where the Earth's magnetic field is subject to interference (underground parking, under a steel tower, between buildings, roof parking, near a railroad crossing, near a large vehicle, etc.).
- During calibration, do NOT operate electric systems (moon roof, power windows, etc.) as they may interfere with the calibration.

## FRONT LICENSE PLATE AND MOUNTING BRACKET INSTALLATION\*

Front License Plate Bracket: P/N 75101-0T010

- 1. Insert the front license plate into the mounting bracket.
- 2. Align the installation holes on the mounting bracket and front license plate with the dimples on the front bumper.
- 3. Screw in the 2 self-tapping screws directly into the dimples to install the front license plate and mounting bracket.

#### NOTICE

- Do NOT pre-drill holes into the bumper.
- Do NOT overtighten the self-tapping screws.



- 1 Dimples
- 2 Front License Plate Mounting Bracket
- 3 License Plate
- 4 Self-Tapping Screws