

Service

Category Vehicle Interior

Section Heating/Air Conditioning

Market USA



Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION	
2012 – 2014	RAV4 EV		

Introduction

Some 2012 – 2014 model year RAV4 EV vehicles may experience a lack of heat from the HVAC system. An updated PTC heater is available to address this condition.

Production Change Information

This bulletin applies to vehicles produced **BEFORE** the Production Change Effective VIN shown below.

MODEL	PLANT	PRODUCTION CHANGE EFFECTIVE VIN
RAV4 EV	TMMC	2T3YL4DV#EW003299

Warranty Information

OP CODE	DESCRIPTION	TIME	OFP	T1	T2
AC1401	Heater Sub-Assy, Electric	2,6	87101-42010	72	73

APPLICABLE WARRANTY

- This repair is covered under the Toyota Basic Warranty. This warranty is in effect for 36 months or 36,000 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.

Parts Information

PART NUMBER	PART NAME	QTY
87101-42010	Heater Sub-Assy, Electric	1
G9270-0R011	DC/DC Converter Assy	1

Required Tools & Equipment

REQUIRED MATERIAL		
DVOM*	1	

^{*}Standard DVOM, not mega ohm tester

Repair Procedure

TOYOTA

- 1. Confirm the condition from the Introduction.
- 2. Remove the service plug.

Refer to the Technical Information System (TIS), applicable model and model year Repair Manual:

- 2012 / 2013 / 2014 RAV4 EV: Engine/Hybrid System – Hybrid/Battery Control System – "Hybrid/Battery Control: Service Plug Grip: Removal"
- 3. Disconnect the PTC Cabin Heater connector.

Figure 1.



PTC Cabin Heater Connector

4. Inspect the resistance of the Heater Sub-Assembly between pins 1 and 2 using a standard DVOM (do not use a mega ohm tester).

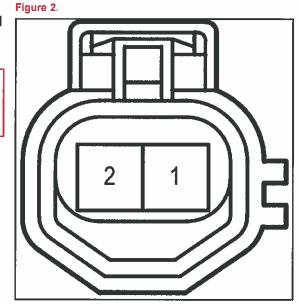


Repair Procedure (Continued)

 Check the Heater Sub-Assembly resistance by placing the positive lead of the DVOM on terminal #2 and the negative lead on terminal #1 of the PTC connector.

NOTE

Incorrect polarity will give an inaccurate reading.



- 6. If the resistance is below $500 \text{K}\Omega$ the DC/DC converter will need to be inspected. If the resistance is NOT below $500 \text{K}\Omega$ this bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.
- 7. Check the resistance of the DC/DC Converter between the "+" terminal of the cabin heater and the "+" terminal of the HV power supply.

Figure 3.



8. If the circuit is open (O/L) then the Heater Sub-Assembly AND the DC/DC Converter need to be replaced. If the circuit is NOT open (O/L) this bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.

Refer to the Technical Information System (TIS), applicable model and model year Repair Manual:

 2012 / 2013 / 2014 RAV4 EV: Vehicle Interior – Heating/Air Conditioning – "Heating/Air Conditioning: Heater Assembly: Removal"



Repair Procedure (Continued)

- 2012 / 2013 / 2014 RAV4 EV: Vehicle Interior – Heating/Air Conditioning – "Heating/Air Conditioning: Heater Assembly: Installation"
- 2012 / 2013 / 2014 RAV4 EV: Engine/Hybrid System – Hybrid/Battery Control System – "Hybrid/Battery Control: DC-DC Converter: Removal"
- 2012 / 2013 / 2014 RAV4 EV: Engine/Hybrid System – Hybrid/Battery Control System – "Hybrid/Battery Control: DC-DC Converter: Installation"
- 9. Verify the vehicle operates normally.