

Warm Air from HVAC Vents with A/C ON - DTC B1479

Service Category Vehicle Interior

Section Heating/Air Conditioning

Market USA

Toyota Supports
 ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2012 – 2013	Camry	

Introduction

Some 2012 – 2013 model year Camry vehicles may exhibit a condition where the HVAC system intermittently blows warm air from the vents with the A/C ON. Diagnostic Trouble Code (DTC) B1479 (Flow Sensor Circuit) may be stored in the A/C system as either a current or history DTC. A malfunctioning A/C compressor flow sensor may cause this condition. Follow the procedure in this bulletin to determine if it is applicable to repair the vehicle.

Production Change Information

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

MODEL	PLANT	LINE	DRIVETRAIN	PRODUCTION CHANGE EFFECTIVE VIN
Camry	TMMK	1	2GR-FE	4T1BK1FK#DU020397
			2AR-FE	4T1BF1FK#DU209020
		2	2GR-FE	4T1BK1FK#DU525653
			2AR-FE	4T1BF1FK#DU641325
	SIA	–	2AR-FE	AT4BF1FK#DR278036

Parts Information

PART NUMBER		PART NAME	QTY
PREVIOUS	NEW		
88320-33240	88320-06190	Compressor Assy, Cooler	1
88310-0R013	88310-0R014	Compressor Assy, w/Pulley	1

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Warranty Information

OP CODE	DESCRIPTION	ENGINE	TIME	OFF	T1	T2
AC1205	R & R Compressor with Magnetic Clutch Assembly	2AR-FE	3.0	88310-0R013	7A	54
		2GR-FE	3.4	88320-33240		

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.

Required Tools & Equipment

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
Techstream 2.0*	ADE	TS2UNIT	1
TIS Techstream		TSPKG1	
Techstream Lite		TSLITEDLR01	

* Essential SST.

NOTE

- Only ONE of the Techstream units listed above is required.
- Software version 8.10.021 or later is required.
- Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787.

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER
R-134a Refrigerant Recovery/Recycling Machine	ADE	-

NOTE

Additional refrigerant service equipment may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787.

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Repair Procedure

1. Using TIS Techstream, check for Diagnostic Trouble Codes (DTCs) in the A/C system.

- If DTC B1479 is stored as a current or history DTC, go to step 2.
- If DTC B1479 is NOT stored as current or history, this bulletin does NOT apply. Refer to the Problem Symptoms Table of the Repair Manual.

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

- 2012 Camry:
Vehicle Interior – Heating/Air Conditioning: "Heating/Air Conditioning: Air Conditioning System (for Automatic Air Conditioning System) / (for Manual Air Conditioning System): Problem Symptoms Table"
- 2013 Camry:
Vehicle Interior – Heating/Air Conditioning: "Heating/Air Conditioning: Air Conditioning System (for Automatic Air Conditioning System) / (for Manual Air Conditioning System): Problem Symptoms Table"

2. Using Techstream, inspect the flow sensor.

A. Turn Key ON Engine ON.

B. Connect Techstream to the DLC3.

C. Enter the following menus:

Body Electrical / Air Conditioner / Data List

D. Check the "Flow Sensor" voltage.

- (1) If the A/C is OFF and the voltage reading is LESS than 3.7 V, continue to step 3.
- (2) If the A/C is ON and the voltage reading is MORE than 3.7 V, evacuate the A/C system and verify refrigerant charge level.
- (3) Verify the AC system is fully charged. If the system is under charged, recharge and see if the B1479 DTC resets.
- (4) If the system is fully charged, continue to step 3.

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Repair Procedure (Continued)

3. Check the harness between the A/C compressor flow sensor and the A/C amplifier.
 - A. Disconnect the I77 air conditioning amplifier assembly connector.
 - B. Disconnect the E75 cooler compressor assembly (A/C flow sensor) connector.
 - C. Measure the resistance according to the value(s) in the table below.

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
I77-7 (FLOQ) - E75-3 (QUFL)	Always	Below 1 Ω
I77-13 (SG-2) - E75-2 (SGFL)		
I77-30 (S5-1) - E75-1 (S5FL)		
I77-7 (FLOQ) - Body Ground		10 k Ω or higher
I77-13 (SG-2) - Body Ground		
I77-30 (S5-1) - Body Ground		

- (1) If any of the harness resistance tests fail, this bulletin does NOT apply. Repair or replace the harness and go to step 5.
 - (2) If all tests are within specifications, proceed to step 4.
4. Remove and replace the A/C compressor.

Refer to TIS, applicable model and model year Repair Manual:

- 2012 Camry:
Vehicle Interior – Heating/Air Conditioning – “Heating/Air Conditioning: Compressor (for 2AR-FE): Removal / Installation”
- 2012 Camry:
Vehicle Interior – Heating/Air Conditioning – “Heating/Air Conditioning: Compressor (for 2GR-FE): Removal / Installation”
- 2013 Camry:
Vehicle Interior – Heating/Air Conditioning – “Heating/Air Conditioning: Compressor (for 2AR-FE): Removal / Installation”
- 2013 Camry:
Vehicle Interior – Heating/Air Conditioning – “Heating/Air Conditioning: Compressor (for 2GR-FE): Removal / Installation”

5. Clear all DTCs and confirm the A/C system is operating correctly.