

# A/C Compressor Inoperative with DTC B1476

**Service Category** Vehicle Interior

**Section** Heating/Air Conditioning

**Market** USA

Toyota Supports  
ASE Certification 

## Applicability

| YEAR(S)     | MODEL(S)       | ADDITIONAL INFORMATION |
|-------------|----------------|------------------------|
| 2012 – 2013 | Prius, Prius C |                        |

## Introduction

On start-up, some vehicles may exhibit a condition where the A/C system blows warm air and Diagnostic Trouble Code (DTC) B1476 is set. An updated A/C compressor is available to address this condition.

### NOTE

If the vehicle does NOT have DTC B1476 (A/C Inverter Load System Malfunction) set as either a current or history DTC, this bulletin does not apply.

## Production Change Information

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

| MODEL   | PLANT     | LINE | PRODUCTION CHANGE EFFECTIVE VIN |
|---------|-----------|------|---------------------------------|
| Prius   | Tsutsumi  | 1    | JTDKN3DU#D0337986               |
|         |           | 2    | JTDKN3DU#D1640890               |
|         | Fujimatsu | 1    | JTDKN3DU#D5575249               |
|         |           | 2    | JTDKN3DU#D5575091               |
| Prius C | Iwate     | 1    | JTDKDTB3#D1031583               |
|         |           | 2    | JTDKDTB3#D1528111               |

## A/C Compressor Inoperative with DTC B1476

### Warranty Information

| OP CODE | DESCRIPTION                   | TIME | MODEL   | OFP         | T1 | T2 |
|---------|-------------------------------|------|---------|-------------|----|----|
| AC1206  | R & R A/C Compressor Assembly | 2.8  | Prius   | 88370-47080 | 7A | 54 |
|         |                               |      | Prius C | 88370-52010 |    |    |

#### 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.
- For California specification Prius C vehicles sold, registered, and operated in California, Arizona ('12 MY only), Connecticut, Maine, Maryland, Massachusetts, New Jersey, Pennsylvania, Oregon, Rhode Island, Vermont, and Washington the A/C Compressor is covered under the California Emission Warranty. This warranty is in effect for 84 months or 70,000 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.

## A/C Compressor Inoperative with DTC B1476

### Parts Information

**NOTE**

Please refer to Repair Procedure to determine which Parts Group is required.

| MODEL   | PARTS GROUP | PREVIOUS PART NUMBER | CURRENT PART NUMBER | PART NAME                              | QTY |
|---------|-------------|----------------------|---------------------|----------------------------------------|-----|
| Prius   | A           | 88370-47080          | 88370-47081         | Compressor Assy, w/Motor               | 1   |
|         |             | 88460-47150          | Same                | Condenser Assy, w/Receiver             | 1   |
|         |             | 88710-47150          | Same                | Tube & Accessory Assy, Air-Conditioned | 1   |
|         |             | 88710-47050          | Same                |                                        |     |
|         |             | 88515-47040          | Same                | Valve, Cooler Expansion                | 1   |
|         |             | 88501-47051          | Same                | Evaporator Sub-Assy, Cooler, No. 1     | 1   |
|         |             | 88707-47041          | Same                | Pipe Sub-Assy, Suction                 | 1   |
|         |             | 88704-47051          | Same                | Hose Sub-Assy, Suction                 | 1   |
|         |             | 88704-47090          | Same                |                                        |     |
|         |             | 88703-47040          | Same                | Hose Sub-Assy, Discharge               | 1   |
|         | B           | 88370-47080          | 88370-47081         | Compressor Assy, w/Motor               | 1   |
|         | C           | 88370-47080          | 88370-47081         | Compressor Assy, w/Motor               | 1   |
|         |             | 88703-47040          | Same                | Hose Sub-Assy, Discharge               | 1   |
|         |             | 88460-47150          | Same                | Condenser Assy, w/Receiver             | 1   |
|         | D           | 88370-47080          | 88370-47081         | Compressor Assy, w/Motor               | 1   |
|         |             | 88703-47040          | Same                | Hose Sub-Assy, Discharge               | 1   |
|         |             | 88460-47150          | Same                | Condenser Assy, w/Receiver             | 1   |
|         |             | 88710-47150          | Same                | Tube & Accessory Assy, Air-Conditioned | 1   |
|         |             | 88710-47050          | Same                |                                        |     |
| Prius C | A           | 88370-52010          | 88370-52011         | Compressor Assy, w/Motor               | 1   |
|         |             | 88704-52260          | Same                | Hose Sub-Assy, Suction                 | 1   |
|         |             | 88706-52600          | Same                | Pipe Sub-Assy, Liquid                  | 1   |
|         |             | 88501-52120          | Same                | Evaporator Sub-Assy, Cooler, No. 1     | 1   |
|         |             | 88515-68010          | 88515-02530         | Valve, Cooler Expansion                | 1   |
|         |             | 88707-52340          | Same                | Pipe Sub-Assy, Suction                 | 1   |
|         |             | 88711-52420          | Same                | Hose, Cooler Refrigerant Discharge     | 1   |
|         |             | 88460-52170          | Same                | Condenser Assy, Cooler                 | 1   |
|         | B           | 88370-52010          | 88370-52011         | Compressor Assy, w/Motor               | 1   |

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### Parts Information (Continued)

| MODEL   | PARTS GROUP | PREVIOUS PART NUMBER | CURRENT PART NUMBER | PART NAME                          | QTY |
|---------|-------------|----------------------|---------------------|------------------------------------|-----|
| Prius C | C           | 88370-52010          | 88370-52011         | Compressor Assy, w/Motor           | 1   |
|         |             | 88711-52420          | Same                | Hose, Cooler Refrigerant Discharge | 1   |
|         |             | 88460-52170          | Same                | Condenser Assy, Cooler             | 1   |
|         | D           | 88370-52010          | 88370-52011         | Compressor Assy, w/Motor           | 1   |
|         |             | 88711-52420          | Same                | Hose, Cooler Refrigerant Discharge | 1   |
|         |             | 88460-52170          | Same                | Condenser Assy, Cooler             | 1   |
|         |             | 88706-52600          | Same                | Pipe Sub-Assy, Liquid              | 1   |

### Repair Procedure

1. Connect Techstream and verify B1476 is set as either a current or history DTC.
  - A. If DTC B1476 is NOT stored in the A/C Amplifier, this bulletin does NOT apply. Please go to the Problem Symptoms table and diagnose vehicle using the Repair Manual.

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

- [2012](#) / [2013](#) Prius:  
*Vehicle Interior – Heating/Air Conditioning – “Heating/Air Conditioning: Air Conditioning System: Problem Symptoms Table”*
- [2012](#) / [2013](#) Prius C:  
*Vehicle Interior – Heating/Air Conditioning – “Heating/Air Conditioning: Air Conditioning System: Problem Symptoms Table”*

- B. If DTC B1476 is stored, go to step 2.
2. Verify the HVAC system fan is working properly.
  - A. Connect Techstream to the DLC3.
  - B. Turn the ignition switch to IG-ON.
  - C. Turn Techstream ON, and enter the following menus:  
**Body Electrical / Air Conditioner / Active Test**

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### Repair Procedure (Continued)

D. Check operation by referring to the table below.

**Air Conditioner:**

| TESTER DISPLAY | TEST PART | CONTROL RANGE | DIAGNOSTIC NOTE |
|----------------|-----------|---------------|-----------------|
| Electrical Fan | HVAC Fan  | OFF, ON       | –               |

Does the fan blow when Active Test is set to ON?

- **YES** — Go to step 3.
- **NO** — This bulletin does NOT apply, continue diagnosis using the applicable Repair Manual.

3. Recover refrigerant from refrigeration system.

A. Recover the refrigerant from the A/C system using a refrigerant recovery unit.

B. Verify there is 470 g (16.6 oz) of refrigerant in the A/C system. If there is not, recharge the A/C system, clear the DTC, and return to step 1 and repeat the above diagnostics.

4. Remove the A/C compressor following the procedure in TIS.

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

- [2012](#) / [2013](#) Prius:  
*Vehicle Interior – Heating/Air Conditioning – “Heating/Air Conditioning: Compressor: Removal”*
- [2012](#) / [2013](#) Prius C:  
*Vehicle Interior – Heating/Air Conditioning – “Heating/Air Conditioning: Compressor: Removal”*

5. Check for potential metal contamination from the compressor, by disassembling the system in the following locations:

A. Check the A/C compressor ports for debris.

- If NO debris is found in the inlet or outlet lines, go to step 7 and replace Parts Group B.
- If debris is found in BOTH the inlet and outlet lines at the A/C compressor, go to step 6 and replace Parts Group A.
- If debris is found in the compressor outlet, go to step 5B.

B. Remove the receiver drier filter and check for debris.

- If debris is NOT found, go to step 8 and replace Parts Group C.
- If debris IS found, go to step 5C.

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### Repair Procedure (Continued)

C. Remove the expansion valve and check for debris.

- If NO debris is present, go to step 9 and replace Parts Group D.
- If debris IS present, go to step 6 and replace Parts Group A.

6. Replace the following A/C system components (Parts Group A):

- Compressor
- Evaporator
- Condenser
- Expansion Valve
- All A/C Lines

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

2012 Prius:

- *Vehicle Interior – Heating/Air Conditioning – “Heating/Air Conditioning: Compressor: [Removal](#) / [Installation](#)”*
- *Vehicle Interior – Heating/Air Conditioning – “Heating/Air Conditioning: Front Evaporator Temperature Sensor: [Removal](#) / [Installation](#)”*
- *Vehicle Interior – Heating/Air Conditioning – “Heating/Air Conditioning: Condenser: [Removal](#) / [Installation](#)”*
- *Vehicle Interior – Heating/Air Conditioning – “Heating/Air Conditioning: Refrigerant Line: [Components](#)”*

2013 Prius:

- *Vehicle Interior – Heating/Air Conditioning – “Heating/Air Conditioning: Compressor: [Removal](#) / [Installation](#)”*
- *Vehicle Interior – Heating/Air Conditioning – “Heating/Air Conditioning: Front Evaporator Temperature Sensor: [Removal](#) / [Installation](#)”*
- *Vehicle Interior – Heating/Air Conditioning – “Heating/Air Conditioning: Condenser: [Removal](#) / [Installation](#)”*
- *Vehicle Interior – Heating/Air Conditioning – “Heating/Air Conditioning: Refrigerant Line: [Components](#)”*

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### Repair Procedure (Continued)

2012 Prius C:

- *Vehicle Interior – Heating/Air Conditioning – “Heating/Air Conditioning: Compressor: [Removal](#) / [Installation](#)”*
- *Vehicle Interior – Heating/Air Conditioning – “Heating/Air Conditioning: Front Evaporator Temperature Sensor: [Removal](#) / [Installation](#)”*
- *Vehicle Interior – Heating/Air Conditioning – “Heating/Air Conditioning: Condenser: [Removal](#) / [Installation](#)”*
- *Vehicle Interior – Heating/Air Conditioning – “Heating/Air Conditioning: Refrigerant Line: [Removal](#) / [Installation](#)”*

2013 Prius C:

- *Vehicle Interior – Heating/Air Conditioning – “Heating/Air Conditioning: Compressor: [Removal](#) / [Installation](#)”*
- *Vehicle Interior – Heating/Air Conditioning – “Heating/Air Conditioning: Front Evaporator Temperature Sensor: [Removal](#) / [Installation](#)”*
- *Vehicle Interior – Heating/Air Conditioning – “Heating/Air Conditioning: Condenser: [Removal](#) / [Installation](#)”*
- *Vehicle Interior – Heating/Air Conditioning – “Heating/Air Conditioning: Refrigerant Line: [Removal](#) / [Installation](#)”*

### 7. Replace the A/C Compressor (Parts Group B).

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

- [2012](#) / [2013](#) Prius:  
*Vehicle Interior – Heating/Air Conditioning – “Heating/Air Conditioning: Compressor: [Installation](#)”*
- [2012](#) / [2013](#) Prius C:  
*Vehicle Interior – Heating/Air Conditioning – “Heating/Air Conditioning: Compressor: [Installation](#)”*

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### Repair Procedure (Continued)

8. Replace the following A/C system components (Parts Group C):

- Compressor
- Discharge Hose
- Condenser

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

2012 Prius:

- *Vehicle Interior – Heating/Air Conditioning – “Heating/Air Conditioning: Compressor: [Removal](#) / [Installation](#)”*
- *Vehicle Interior – Heating/Air Conditioning – “Heating/Air Conditioning: Refrigerant Line: [Components](#)”*
- *Vehicle Interior – Heating/Air Conditioning – “Heating/Air Conditioning: Condenser: [Removal](#) / [Installation](#)”*

2013 Prius:

- *Vehicle Interior – Heating/Air Conditioning – “Heating/Air Conditioning: Compressor: [Removal](#) / [Installation](#)”*
- *Vehicle Interior – Heating/Air Conditioning – “Heating/Air Conditioning: Refrigerant Line: [Components](#)”*
- *Vehicle Interior – Heating/Air Conditioning – “Heating/Air Conditioning: Condenser: [Removal](#) / [Installation](#)”*

2012 Prius C:

- *Vehicle Interior – Heating/Air Conditioning – “Heating/Air Conditioning: Compressor: [Removal](#) / [Installation](#)”*
- *Vehicle Interior – Heating/Air Conditioning – “Heating/Air Conditioning: Refrigerant Line: [Removal](#) / [Installation](#)”*
- *Vehicle Interior – Heating/Air Conditioning – “Heating/Air Conditioning: Condenser: [Removal](#) / [Installation](#)”*

2013 Prius C:

- *Vehicle Interior – Heating/Air Conditioning – “Heating/Air Conditioning: Compressor: [Removal](#) / [Installation](#)”*
- *Vehicle Interior – Heating/Air Conditioning – “Heating/Air Conditioning: Refrigerant Line: [Removal](#) / [Installation](#)”*
- *Vehicle Interior – Heating/Air Conditioning – “Heating/Air Conditioning: Condenser: [Removal](#) / [Installation](#)”*

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### Repair Procedure (Continued)

9. Replace the following A/C system components (Parts Group D):

- Condenser
- Discharge Hose
- High Side Hose
- Compressor

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

2012 Prius:

- *Vehicle Interior – Heating/Air Conditioning – “Heating/Air Conditioning: Condenser: [Removal](#) / [Installation](#)”*
- *Vehicle Interior – Heating/Air Conditioning – “Heating/Air Conditioning: Refrigerant Line: [Components](#)”*
- *Vehicle Interior – Heating/Air Conditioning – “Heating/Air Conditioning: Compressor: [Removal](#) / [Installation](#)”*

2013 Prius:

- *Vehicle Interior – Heating/Air Conditioning – “Heating/Air Conditioning: Condenser: [Removal](#) / [Installation](#)”*
- *Vehicle Interior – Heating/Air Conditioning – “Heating/Air Conditioning: Refrigerant Line: [Components](#)”*
- *Vehicle Interior – Heating/Air Conditioning – “Heating/Air Conditioning: Compressor: [Removal](#) / [Installation](#)”*

2012 Prius C:

- *Vehicle Interior – Heating/Air Conditioning – “Heating/Air Conditioning: Condenser: [Removal](#) / [Installation](#)”*
- *Vehicle Interior – Heating/Air Conditioning – “Heating/Air Conditioning: Refrigerant Line: [Removal](#) / [Installation](#)”*
- *Vehicle Interior – Heating/Air Conditioning – “Heating/Air Conditioning: Compressor: [Removal](#) / [Installation](#)”*

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### Repair Procedure (Continued)

2013 Prius C:

- *Vehicle Interior – Heating/Air Conditioning – “Heating/Air Conditioning: Condenser: [Removal](#) / [Installation](#)”*
- *Vehicle Interior – Heating/Air Conditioning – “Heating/Air Conditioning: Refrigerant Line: [Removal](#) / [Installation](#)”*
- *Vehicle Interior – Heating/Air Conditioning – “Heating/Air Conditioning: Compressor: [Removal](#) / [Installation](#)”*

10. Recharge the A/C system with refrigerant.

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

- [2012](#) / [2013](#) Prius:  
*Vehicle Interior – Heating/Air Conditioning – “Heating/Air Conditioning: Refrigerant: Replacement”*
- [2012](#) / [2013](#) Prius C:  
*Vehicle Interior – Heating/Air Conditioning – “Heating/Air Conditioning: Refrigerant: Replacement”*

11. Verify proper A/C system operation.