

Service Category Vehicle Interior

Section Heating/Air Conditioning Market USA Toyota Supports ASE Certification

#### Applicability

YEAR(S) MODEL(S)		ADDITIONAL INFORMATION	
2021 - 2022	Tacoma		

### Introduction

Some 2021 – 2022 model year Tacoma vehicles may exhibit a condition in which the air conditioning system has poor cooling performance sometimes accompanied by refrigerant vapor visible from under the vehicle. This condition is caused by the pressure relief valve opening and purging refrigerant at a pressure below specification. Follow the Repair Procedure in this bulletin to address this condition.

### **Production Change Information**

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

MODEL	PLANT	ENGINE	DRIVETRAIN	PRODUCTION CHANGE EFFECTIVE VIN
Tacoma		2GR-FKS		3TYRZ5CN#NX013091
			2WD	3TYEZ5CN#NX013091
			200	3TYAZ5CN#NX013091
				3TYBZ5DN#NX001196
	TMMGT			3TYSZ5AN#NX053690
				3TYCZ5AN#NX053690
			4WD	3TYGZ5AN#NX053690
				3TYHZ5BN#NX005051
				3TYDZ5BN#NX005051
		2TR-FE	2WD —	3TYRX5GN#NX034750
				3TYAX5GN#NX034750
			4WD	3TYSX5EN#NX010349
	ТММВС	2GR-FKS	2WD	3TMEZ5CN#NM169468
				3TMAZ5CN#NM169468
				3TMBZ5DN#NM0033575
				3TMCZ5AN#NM473373
			4WD	3TMGZ5AN#NM473373
				3TMHZ5BN#NM125968
				3TMDZ5BN#NM125968

### Warranty Information

OP CODE	DESCRIPTION	ENGINE	TIME	OFP	T1	T2
AC2046	R & R the Pressure Relief Valve	4 Cyl.	1.4	88379-04020	64	14
		6 Cyl.	2.5			

### **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	QUANTITY
88379-04020	Valve, Pressure Relief	1
90210-A0002	Washer Cool	1
90210-A0004	Washer, Seal	1

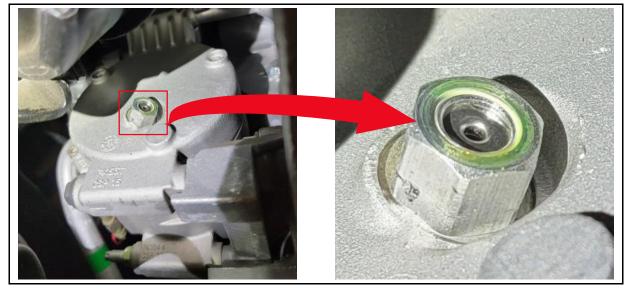
#### **Required Tools & Equipment**

REQUIRED TOOLS & MATERIAL	QUANTITY
Compressor Oil, PSD1 or Equivalent	
Gas Leak Detector or UV Light	
Robinair R1234YF A/C Machine	

### **Repair Procedure**

- 1. Does the vehicle exhibit a condition in which the air conditioning system has poor cooling performance sometimes accompanied by refrigerant vapor visible from under the vehicle?
  - **YES** Continue to step 2.
  - NO This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.
- 2. Is there evidence of leak detection dye at the pressure relief valve on the compressor?
  - **YES** Continue to step 3.
  - NO This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.

### Figure 1. Leak Detection Dye Found on the Pressure Relief Valve



- 3. Recover the refrigerant from the air conditioning system.
  - Refer to TIS, applicable model and model year Repair Manual:
    - 2021 2022 Tacoma: Vehicle Interior – Heating/Air Conditioning – "Air Conditioning: Refrigerant (for HFO-1234yf (R1234yf)): Replacement"

### **Repair Procedure (continued)**

 Was the amount of refrigerant recovered less than the amount indicated below? For vehicles with engine type 2TR-FE: 480 g.

For vehicles with engine type 2GR-FKS: 495 g.

- YES Continue to step 5.
- NO This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.
- 5. Remove the compressor from the vehicle.

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

- 2021 2022 Tacoma: Vehicle Interior – Heating/Air Conditioning – "Air Conditioning: Compressor: Removal"
- 6. Remove the pressure relief valve and O-ring.
- 7. Install the NEW pressure relief valve and O-ring.
  - A. Apply sufficient compressor oil (PSD1 or equivalent) to a NEW O-ring and fitting surface of the pressure relief valve.
  - B. Install the NEW O-ring onto the pressure relief valve.
  - C. Install the pressure relief valve.Torque: 8.0 N\*m {82 kgf\*cm, 71 in\*lbf}
- Reinstall the compressor onto the vehicle.
  Refer to TIS, applicable model and model year Repair Manual:
  - 2021 2022 Tacoma: Vehicle Interior – Heating/Air Conditioning – "Air Conditioning: Compressor: Installation"
- 9. Charge the air conditioning system with refrigerant.

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

 2021 – 2022 Tacoma: Vehicle Interior – Heating/Air Conditioning – "<u>Air Conditioning: Refrigerant (for HFO-1234yf(R1234yf)): Replacement</u>"

### NOTE

- Amount of refrigerant used for vehicles with engine type 2TR-FE: 480 540 g.
- Amount of refrigerant used for vehicles with engine type 2GR-FKS: 495 555 g.

### **Repair Procedure (continued)**

- 10. Warm the engine at 1,640 RPM or less for two minutes or more AFTER charging the air conditioning system with refrigerant.
- 11. Inspect the air conditioning system for refrigerant leak using a gas leak detector or UV light.

#### NOTE

The air conditioning system has leak detection dye already from the factory.

12. Confirm the air conditioning system is cooling consistently.