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<b>Model Year Start:</b> 2023	<b>Model:</b> Prius	<b>Prod Date Range:</b> [12/2022 - ]
<b>Title:</b> HEATING / AIR CONDITIONING: AIR CONDITIONING SYSTEM (for HEV Model): Front Window Fogging; 2023 - 2024 MY Prius [12/2022 - ]		

## Front Window Fogging

## DESCRIPTION

If the windshield frequently fogs up even though the air conditioning system is operating, the following factors may be the cause.

SYMPTOM	FACTOR
Windshield frequently fogs up	<ul style="list-style-type: none"> <li>• Compressor with motor assembly malfunction</li> <li>• Refrigerant volume (low)</li> <li>• Cooler expansion valve (opened excessively)</li> <li>• Damper servo malfunction</li> <li>• Mechanical locking of damper and damper link</li> </ul>

## PROCEDURE

### 1. CHECK REFRIGERANT SHORTAGE

(a) Prepare the vehicle according to the table below.

#### Measurement Condition:

ITEM	CONDITION
A/C Switch	On
Ambient Temperature*1	0 to 49°C (32 to 120°F)
Air Conditioning Air Inlet Temperature*2	25 to 35°C (77 to 95°F)
Set Temperature	MAX COLD
Recirculation/fresh Control Switch	Recirculation
Air Vent Damper Position	FACE
Blower Speed	HI

#### HINT:

\*1: This inspection can be judged correctly only if the ambient temperature is within a range of 0 to 49°C (32 to 120°F). Therefore, postpone the test if the temperature is low.

\*2: This inspection can be judged correctly only if the air inlet temperature is within a range of 25 to 35°C (77 to 95°F). Therefore, postpone the test if the temperature is out of range.

(b) Using the GTS, check the amount of refrigerant.

#### Body Electrical > Air Conditioner > Utility

TESTER DISPLAY
Refrigerant Gas Volume Check

**NOTICE:**

If the conditions for the inspection are not met, "Refrigerant incorrect" will be displayed on the GTS. Confirm the conditions of the inspection and perform the check again.

**HINT:**

- If the amount of refrigerant is insufficient, "Refrigerant shortage" is displayed on the GTS and the indicator light on the A/C switch turns off.
- When performing this inspection, a DTC will not be output even if "Refrigerant shortage" is displayed on the GTS.

RESULT	AMOUNT OF REFRIGERANT
Refrigerant shortage	Insufficient or leakage
Refrigerant correct	Correct
Refrigerant incorrect	Incorrect

OK:

"Refrigerant correct" is displayed on the GTS.

**NG ► CHARGE SYSTEM WITH REFRIGERANT**

for HFC-134a(R134a): Click here [INFO](#)

for HFO-1234yf(R1234yf): Click here [INFO](#)

**OK**

<b>2.</b>	<b>CHECK OPERATION</b>
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(a) Check that the air conditioning system changes to DEF mode according to the switch operation, when the MODE switch on the radio and display receiver assembly is pushed.

OK:

Air conditioning system changes to DEF mode.

**OK ► INSPECT REFRIGERANT PRESSURE WITH MANIFOLD GAUGE SET**

for HFC-134a(R134a): Click here [INFO](#)

for HFO-1234yf(R1234yf): Click here [INFO](#)

**NG ► GO TO DTC B14037F**