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Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [03/2023 -]
Title: HEATING / AIR CONDITIONING: AIR CONDITIONING SYSTEM (for PHEV Model): FREEZE FRAME DATA; 2023 - 2024 MY Prius Prime [03/2023 -]		

FREEZE FRAME DATA

DESCRIPTION

(a) When an air conditioning system DTC is stored, the air conditioning amplifier assembly stores the current vehicle state as Freeze Frame Data.

CHECK FREEZE FRAME DATA

(a) Enter the following menus:

Body Electrical > Air Conditioner > Trouble Codes

(b) According to the display on the GTS, select a DTC to display its freeze frame data.

LIST OF FREEZE FRAME DATA

Body Electrical > Air Conditioner

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Total Distance Traveled	Total distance traveled	0 to 999999	Total distance traveled	-
Total Distance Traveled - Unit	Total distance traveled unit	km / mile	-	-
Regulator Pressure Sensor	Air conditioning pressure sensor	-32768 to 32767 kPa(gauge) (-32.768 to 32.767 MPaG)	Actual refrigerant pressure displayed	*
Regulator Pressure Sensor (IG ON)	Air conditioning pressure sensor	-32768 to 32767 kPa(gauge) (-32.768 to 32.767 MPaG)	Actual refrigerant pressure (when ignition switch on) displayed	*
Engine RPM	Engine speed	0 to 12750 rpm	-	*
Vehicle Speed	Vehicle speed	0 to 255 km/h	-	*
Ambient Temperature Adjustment Value	Adjusted ambient temperature	-128 to 127°C	Adjust ambient temperature displayed	*

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Ambient Temperature Adjustment Value (IG ON)	Adjusted ambient temperature	-128 to 127°C	Adjust ambient temperature (when ignition switch on) displayed	*
Room Temperature Sensor	Room temp. sensor (cooler thermistor)	-128 to 127°C	Actual cabin temperature displayed	*
Magnet Clutch States	-	-	-	Cannot be used
Solenoid Valve Control Current Value	-	-	-	Cannot be used
Compressor Target Speed	Compressor target speed	0 to 10000 rpm	Compressor target speed displayed	*
Compressor Actual Speed	Compressor speed	0 to 10000 rpm	Actual compressor speed displayed	*
Evaporator Fin Thermistor	Evaporator temp. sensor (No. 1 cooler thermistor)	-128 to 127°C	Actual evaporator temperature displayed	*
Evaporator Fin Thermistor (IG ON)	Evaporator temp. sensor (No. 1 cooler thermistor)	-128 to 127°C	Actual evaporator temperature (when ignition switch on) displayed	*
Blower Level	Blower motor speed level	0 to 31	Displayed speed level increases in range between 0 and 31 as blower motor speed increases	*
Air Inlet Damper Control Servo Motor Pulse	No. 1 blower damper servo sub-assembly actual pulse	128 to 384	<ul style="list-style-type: none"> Fresh: 220 (pulse) Recirculation: 256 (pulse) 	*

HINT:

*: This item is displayed only when DTC P05347A is output.

