

Last Modified: 12-04-2024	6.11:8.1.0	Doc ID: RM10000002AQOC
Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [03/2023 -]
Title: HEATING / AIR CONDITIONING: AIR CONDITIONING SYSTEM (for PHEV Model): DIAGNOSTIC TROUBLE CODE CHART; 2023 - 2024 MY Prius Prime [03/2023 -]		

DIAGNOSTIC TROUBLE CODE CHART

Air Conditioning System

DTC NO.	DETECTION ITEM	MIL	MEMORY	DTC OUTPUT FROM	PRIORITY	NOTE	LINK
B138571	A/C Cooling Electric Expansion Valve Actuator Stuck	Come on	Memorized	Air Conditioner	A	SAE Code: B1385	INFO
B138718	A/C Cooling Electric Expansion Valve Circuit Current Below Threshold	Come on	Memorized	Air Conditioner	A	SAE Code: B1388	INFO
B138719	A/C Cooling Electric Expansion Valve Circuit Current Above Threshold	Come on	Memorized	Air Conditioner	A	SAE Code: B1389	INFO
B140287	Lost Communication with Front Air Outlet Damper Control Servo Motor LIN Missing Message	Does not come on	Memorized	Air Conditioner	B	-	INFO
B14037F	Front Air Outlet Damper Control Servo Motor Actuator Stuck Off	Does not come on	Memorized	Air Conditioner	A	-	INFO
B140587	Lost Communication with Front Air Mix Damper Control Servo Motor LIN Missing Message	Does not come on	Memorized	Air Conditioner	B	-	INFO
B14067F	Front Air Mix Damper Control Servo Motor Actuator Stuck Off	Does not come on	Memorized	Air Conditioner	A	-	INFO
B141A11	Room Temperature Sensor Circuit Short to Ground	Does not come on	Memorized	Air Conditioner	A	-	INFO
B141A15	Room Temperature Sensor Circuit Short to Battery or Open	Does not come on	Memorized	Air Conditioner	A	-	INFO

DTC NO.	DETECTION ITEM	MIL	MEMORY	DTC OUTPUT FROM	PRIORITY	NOTE	LINK
B142200	A/C Inverter Load Malfunction	Does not come on	Memorized	Air Conditioner	A	-	INFO
B142A88	Servo Motor LIN Communication Bus off	Does not come on	Memorized	Air Conditioner	A	-	INFO
B143A87	Lost Communication with Air Inlet Damper Control Servo Motor LIN Missing Message	Does not come on	Memorized	Air Conditioner	B	-	INFO
B143B7F	Air Inlet Damper Control Servo Motor Actuator Stuck Off	Does not come on	Memorized	Air Conditioner	A	-	INFO
B14711C	A/C Inverter High Voltage Power Resource Circuit Voltage Out of Range	Does not come on	Memorized	Air Conditioner	B	-	INFO
B14721C	A/C Inverter High Voltage Output Circuit Voltage Out of Range	Does not come on	Memorized	Air Conditioner	A	-	INFO
B14744B	A/C Inverter Cooling/Heating Over Temperature	Does not come on	Memorized	Air Conditioner	A	-	INFO
B147496	A/C Inverter Component Internal Failure	Does not come on	Memorized	Air Conditioner	A	-	INFO
B149887	A/C Inverter Local Missing Message	Come on	Memorized	Air Conditioner	A	SAE Code: B1498	INFO
B14B087	Lost Communication with Heat Pump ECU (Local-CAN) Missing Message	Come on	Memorized	Air Conditioner	B	SAE Code: B14B0	INFO
B14B287	Lost Communication with Front Panel LIN Missing Message	Does not come on	Memorized	Air Conditioner	A	-	INFO

DTC NO.	DETECTION ITEM	MIL	MEMORY	DTC OUTPUT FROM	PRIORITY	NOTE	LINK
B3A0112	A/C Evaporator Front Magnetic Valve Circuit Short to Battery	Does not come on	Memorized	Air Conditioner	A	-	INFO
B3A0114	A/C Evaporator Front Magnetic Valve Circuit Short to Ground or Open	Does not come on	Memorized	Air Conditioner	A	-	INFO
B3A0A71	A/C Heating Electric Expansion Valve Actuator Stuck	Come on	Memorized	Air Conditioner	A	SAE Code: B3A0A	INFO
B3A0B18	A/C Heating Electric Expansion Valve Circuit Current Below Threshold	Come on	Memorized	Air Conditioner	A	SAE Code: B3A0C	INFO
B3A0B19	A/C Heating Electric Expansion Valve Circuit Current Above Threshold	Come on	Memorized	Air Conditioner	A	SAE Code: B3A0D	INFO
B3A6111	Indoor Condenser Refrigerant Temperature Sensor Circuit Short to Ground	Does not come on	Memorized	Air Conditioner	A	-	INFO
B3A6115	Indoor Condenser Refrigerant Temperature Sensor Circuit Short to Battery or Open	Does not come on	Memorized	Air Conditioner	A	-	INFO
P007011	Ambient Temperature Sensor Circuit Short to Ground	Come on	Memorized	Air Conditioner	A	SAE Code: P0072	INFO
P007015	Ambient Temperature Sensor Circuit Short to Battery or Open	Come on	Memorized	Air Conditioner	A	SAE Code: P0073	INFO
P053011	Refrigerant Pressure Sensor Circuit Short to Ground	Come on	Memorized	Air Conditioner	A	SAE Code: P0532	INFO
P053015	Refrigerant Pressure Sensor Circuit Short to Battery or Open	Come on	Memorized	Air Conditioner	A	SAE Code: P0533	INFO

DTC NO.	DETECTION ITEM	MIL	MEMORY	DTC OUTPUT FROM	PRIORITY	NOTE	LINK
P053016	Refrigerant Pressure Sensor Circuit Voltage Below Threshold	Come on	Memorized	Air Conditioner	B	SAE Code: P0531	INFO
P05301C	Refrigerant Pressure Sensor Circuit Voltage Out of Range	Come on	Memorized	Air Conditioner	B	SAE Code: B0531	INFO
P05347A	Refrigerant Gas Fluid Leak or Seal Failure	Does not come on	Memorized	Air Conditioner	A	-	INFO
P053511	Evaporator Temperature Sensor Circuit Short to Ground	Does not come on	Memorized	Air Conditioner	A	-	INFO
P053515	Evaporator Temperature Sensor Circuit Short to Battery or Open	Does not come on	Memorized	Air Conditioner	A	-	INFO
P0EBC11	External Condenser Refrigerant Temperature Sensor Circuit Short to Ground	Come on	Memorized	Air Conditioner	A	SAE Code: P0EBE	INFO
P0EBC15	External Condenser Refrigerant Temperature Sensor Circuit Short to Battery or Open	Come on	Memorized	Air Conditioner	A	SAE Code: P0EBD	INFO
P0EC111	Refrigerant Outlet Sensor Circuit Short to Ground	Does not come on	Memorized	Air Conditioner	A	-	INFO
P0EC115	Refrigerant Outlet Sensor Circuit Short to Battery or Open	Does not come on	Memorized	Air Conditioner	A	-	INFO
P0EC971	A/C Low Pressure Magnetic Valve Actuator Stuck	Come on	Memorized	Air Conditioner	B	SAE Code: P0EC9	INFO
P0EE312	A/C High Pressure Magnetic Valve Circuit Short to Battery	Does not come on	Memorized	Air Conditioner	A	-	INFO

DTC NO.	DETECTION ITEM	MIL	MEMORY	DTC OUTPUT FROM	PRIORITY	NOTE	LINK
P0EE314	A/C High Pressure Magnetic Valve Circuit Short to Ground or Open	Does not come on	Memorized	Air Conditioner	A	-	INFO
P15017A	Hybrid/EV Battery Cooling Refrigerant Gas Fluid Leak or Seal Failure	Come on	Memorized	Air Conditioner	B	SAE Code: P1501	INFO
P153A62	Ambient Temperature Sensor / External Condenser Refrigerant Temperature Sensor Signal Compare Failure	Come on	Memorized	Air Conditioner	B	SAE Code: P153A	INFO
P1F2011	Evaporator Refrigerant Temperature Sensor Circuit Short to Ground	Does not come on	Memorized	Air Conditioner	A	-	INFO
P1F2015	Evaporator Refrigerant Temperature Sensor Circuit Short to Battery or Open	Does not come on	Memorized	Air Conditioner	A	-	INFO
P261112	A/C Low Pressure Magnetic Valve Circuit Short to Battery	Come on	Memorized	Air Conditioner	A	SAE Code: P2613	INFO
P261114	A/C Low Pressure Magnetic Valve Circuit Short to Ground or Open	Come on	Memorized	Air Conditioner	A	SAE Code: P2612	INFO
P2D4496	A/C Compressor Component Internal Failure	Come on	Memorized	Air Conditioner	B	SAE Code: P2D44	INFO
U010087	Lost Communication with ECM/PCM "A" Missing Message	Come on	Memorized	Air Conditioner	B	SAE Code: U0100	INFO
U011187	Lost Communication with Hybrid/EV Battery Energy Control Module "A" Missing Message	Come on	Memorized	Air Conditioner	B	SAE Code: U0111	INFO
U013187	Lost Communication with Power Steering Control Module Missing Message	Does not come on	Memorized	Air Conditioner	B	-	INFO

DTC NO.	DETECTION ITEM	MIL	MEMORY	DTC OUTPUT FROM	PRIORITY	NOTE	LINK
U014087	Lost Communication with Body Control Module Missing Message	Does not come on	Memorized	Air Conditioner	B	-	INFO
U015587	Lost Communication with Instrument Panel Cluster (IPC) Control Module Missing Message	Does not come on	Memorized	Air Conditioner	B	-	INFO
U016387	Lost Communication with Navigation Control Module Missing Message	Does not come on	Memorized	Air Conditioner	B	-	INFO
U019887	Lost Communication with Telematic Control Module "A" Missing Message	Does not come on	Memorized	Air Conditioner	B	-	INFO
U029387	Lost Communication with Hybrid/EV Powertrain Control Module Missing Message	Come on	Memorized	Air Conditioner	B	SAE Code: U0293	INFO

