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<b>Model Year Start:</b> 2023	<b>Model:</b> Prius Prime	<b>Prod Date Range:</b> [03/2023 - ]
<b>Title:</b> HYBRID / BATTERY CONTROL: PLUG-IN CHARGE CONTROL SYSTEM (for PHEV Model): VEHICLE BEHAVIOR CHART; 2023 - 2024 MY Prius Prime [03/2023 - ]		

## VEHICLE BEHAVIOR CHART

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(a) Vehicle behavior categorized by DTC

If a DTC is output, the vehicle behaves as follows.

DTC NO.	DETECTION ITEM	VEHICLE BEHAVIOR WHEN DTC IS OUTPUT
P056014	System Voltage (BATT) Circuit Short to Ground or Open	-
P060B1C	Plug-in Control Module A/D Processing Circuit Voltage Out of Range	Charging stops / Supply power stops
P060B49	Plug-in Control Module A/D Processing Internal Electronic Failure	Charging stops / Supply power stops
P060B71	Plug-in Control Module A/D Processing Actuator Stuck	Charging stops / Supply power stops
P062F44	Plug-in Control Module EEPROM Data Memory Failure	-
P06881F	Plug-in Control Module Power Relay Sense Circuit Intermittent	Charging stops / Supply power stops
P0D0700	Hybrid/EV Battery Charging System Positive Contactor Stuck Closed	<ol style="list-style-type: none"> <li>1. Charging continues</li> <li>2. Solar charging, remote air conditioning, my room mode, cooling before charging, timer charging, external supply power, recovery of compressor oil from battery cooling refrigerant control: Stops</li> </ol>
P0D0773	Hybrid/EV Battery Charging System Positive/Negative Contactor Actuator Stuck Closed	<ol style="list-style-type: none"> <li>1. Charging continues</li> <li>2. Solar charging, remote air conditioning, my room mode, cooling before charging, timer charging, external supply power, recovery of compressor oil from battery cooling refrigerant control: Stops</li> </ol>
P0D0E73	Hybrid/EV Battery Charging System Negative Contactor Control Actuator Stuck Closed	<ol style="list-style-type: none"> <li>1. Charging continues</li> <li>2. Solar charging, remote air conditioning, my room mode, cooling before charging, timer charging, external supply power, recovery of compressor oil from battery cooling refrigerant control: Stops</li> </ol>
P0D2A19	Hybrid/EV Battery Charger Input Current Sensor Circuit Current Above Threshold	Charging stops

DTC NO.	DETECTION ITEM	VEHICLE BEHAVIOR WHEN DTC IS OUTPUT
P0D3812	Hybrid/EV Battery Charger Input Current Sensor Circuit Circuit Short to Auxiliary Battery	Charging stops / Supply power stops
P0D3814	Hybrid/EV Battery Charger Input Current Sensor Circuit Circuit Short to Ground or Open	Charging stops / Supply power stops
P0D3828	Hybrid/EV Battery Charger Input Current Sensor Circuit Signal Bias Level Out of Range / Zero Adjustment Failure	Charging stops / Supply power stops
P0D389E	Hybrid/EV Battery Charger Input Current Sensor Overcurrent Detection Circuit Stuck On	Charging stops / Supply power stops
P0D4C1C	Hybrid/EV Battery Charger Hybrid/EV Battery Input Voltage Sensor Voltage Out of Range	<ol style="list-style-type: none"> <li>1. Charging stops</li> <li>2. Solar charging, remote air conditioning, my room mode, cooling before charging, timer charging, external supply power, recovery of compressor oil from battery cooling refrigerant control: Stops</li> </ol>
P0D4C36	Hybrid/EV Battery Charger Hybrid/EV Battery Input Voltage Sensor Signal Frequency Too Low	Charging stops / Supply power stops
P0D4C37	Hybrid/EV Battery Charger Hybrid/EV Battery Input Voltage Sensor Signal Frequency Too High	Charging stops / Supply power stops
P0D4C9E	Hybrid/EV Battery Charger Hybrid/EV Battery Input Voltage Sensor Stuck On	Charging stops / Supply power stops
P0D5112	Hybrid/EV Battery Charger Hybrid/EV Battery Output Current Sensor Circuit High Circuit Short to Battery	Charging stops / Supply power stops
P0D5114	Hybrid/EV Battery Charger Hybrid/EV Battery Output Current Sensor Circuit Low Circuit Short to Ground or Open	Charging stops / Supply power stops
P0D5128	Hybrid/EV Battery Charger Hybrid/EV Battery Output Current Sensor Circuit Signal Bias Level Out of Range / Zero Adjustment Failure	Charging stops / Supply power stops
P0D519E	Hybrid/EV Battery Charger Hybrid/EV Battery Output Current Sensor Circuit Stuck On	Charging stops / Supply power stops
P0D5611	Charging Connector Proximity Detection Circuit Short to Ground	Charging stops / Supply power stops
P0D5615	Charging Connector Proximity Detection Circuit Short to Auxiliary Battery or Open	Charging stops / Supply power stops
P0D5C00	Charger Input/Output Power Difference High	Charging continues

DTC NO.	DETECTION ITEM	VEHICLE BEHAVIOR WHEN DTC IS OUTPUT
P0D5E00	Hybrid/EV Battery Charger Hybrid/EV System Discharge Time Too Long	<ol style="list-style-type: none"> <li>1. Charging continues</li> <li>2. Solar charging, remote air conditioning, my room mode, cooling before charging, timer charging, external supply power, recovery of compressor oil from battery cooling refrigerant control: Stops</li> </ol>
P0E5E87	Plug-in Control Module Processor from Hybrid/EV Battery Charger Control Module Processor Missing Message	Charging stops / Supply power stops
P0E619E	Hybrid/EV Battery Charger Enable Circuit Stuck On	<ol style="list-style-type: none"> <li>1. Charging stops</li> <li>2. Solar charging, remote air conditioning, my room mode, cooling before charging, timer charging, external supply power, recovery of compressor oil from battery cooling refrigerant control: Stops</li> </ol>
P0E6A73	Hybrid/EV Battery Charging System Precharge Contactor Control Actuator Stuck Closed	<ol style="list-style-type: none"> <li>1. Charging continues</li> <li>2. Solar charging, remote air conditioning, my room mode, cooling before charging, timer charging, external supply power, recovery of compressor oil from battery cooling refrigerant control: Stops</li> </ol>
P0EF716	Hybrid/EV Battery Charger Input Voltage Sensor "B" Circuit Low Circuit Voltage Below Threshold	Charging stops / Supply power stops
P0EF717	Hybrid/EV Battery Charger Input Voltage Sensor "B" Circuit High Circuit Voltage Above Threshold	Charging stops / Supply power stops
P0EF728	Hybrid/EV Battery Charger Input Voltage Sensor "B" Circuit Range/Performance Signal Bias Level Out of Range / Zero Adjustment Failure	Charging stops / Supply power stops
P0EFB16	Hybrid/EV Battery Charger "A" Input Voltage Sensor "C" Circuit Low Circuit Voltage Below Threshold	Charging stops / Supply power stops
P166100	Battery Charger "A" Inlet-Outlet Switching Contactor Stuck Open	Charging stops
P166173	Battery Charger "A" Inlet-Outlet Switching Contactor Actuator Stuck Closed	Charging stops
P168449	AC Onboard Charger Module Processor Internal Electronic Failure	Charging continues / Supply power continues
P168749	AC Onboard Charger Module A/D Processing Internal Electronic Failure	Charging stops / Supply power stops
P195162	Charger "A" DC/DC Converter Temperature Sensor (for Charging)/Hybrid/EV Output	Charging continues / Supply power continues

DTC NO.	DETECTION ITEM	VEHICLE BEHAVIOR WHEN DTC IS OUTPUT
	Temperature Sensor Signal Compare Failure	
P195816	Charger "A" Power Feeding Output Voltage Sensor Circuit Voltage Below Threshold	Supply power stops
P19AF00	Charger "A" DC/DC Converter Malfunction (for Power Feeding)	Supply power stops
P19C512	Hybrid/EV Output Temperature Sensor Circuit Short to Battery	Charging stops / Supply power stops
P19C514	Hybrid/EV Output Temperature Sensor Circuit Short to Ground or Open	-
P19CC19	Hybrid/EV Battery Charger Hybrid/EV Battery Output Current (ICHG) High Circuit Current Above Threshold	Charging stops
P19D014	Hybrid/EV Battery Charger Control Module "A" Sensor Power Supply "A" Circuit Short to Ground or Open	Charging stops / Supply power stops
P1C0012	Voltage Sensor after Boosting by PFC Boosting Circuit Circuit Short to Auxiliary Battery	Charging stops / Supply power stops
P1C0014	Voltage Sensor after Boosting by PFC Boosting Circuit Circuit Short to Ground or Open	Charging stops / Supply power stops
P1C0016	Voltage Sensor after Boosting by PFC Boosting Circuit Circuit Voltage Below Threshold	Charging stops
P1C009E	Voltage Sensor after Boosting by PFC Boosting Circuit Overvoltage Detection Circuit Stuck On	Charging stops / Supply power stops
P1C0512	PFC Inverter Temperature Sensor Circuit Short to Auxiliary Battery	Charging stops / Supply power stops
P1C0514	PFC Inverter Temperature Sensor Circuit Short to Ground or Open	Charging continues / Supply power continues
P1C0A12	DC/DC Converter Temperature Sensor (for Charging) Circuit Short to Auxiliary Battery	Charging stops / Supply power stops
P1C0A14	DC/DC Converter Temperature Sensor (for Charging) Circuit Short to Ground or Open	Charging continues / Supply power continues
P1C1B00	PFC Boosting Circuit Malfunction	Charging stops / Supply power stops
P1C1C00	DC/DC Converter Malfunction (for Charging)	Charging stops
P1C1D00	Charging Power Low	<ol style="list-style-type: none"> <li>1. Charging stops</li> <li>2. Solar charging, remote air conditioning, my room mode, cooling before charging, timer charging, external supply power, recovery of</li> </ol>

DTC NO.	DETECTION ITEM	VEHICLE BEHAVIOR WHEN DTC IS OUTPUT
		compressor oil from battery cooling refrigerant control: Stops
P1C1E00	Charging Power High	<ol style="list-style-type: none"> <li>1. Charging stops</li> <li>2. Solar charging, remote air conditioning, my room mode, cooling before charging, timer charging, external supply power, recovery of compressor oil from battery cooling refrigerant control: Stops</li> </ol>
P1C2562	PFC Inverter Temperature Sensor/DC/DC Converter for Charging Temperature Sensor Signal Compare Failure	Charging continues / Supply power continues
P1C2617	Hybrid/EV Battery Charger Hybrid/EV Battery Input Voltage Sensor Circuit Voltage Above Threshold	Charging stops
P1C2717	Voltage Sensor after Boosting by PFC Boosting Circuit Circuit Voltage Above Threshold	Charging stops
P1CA400	Charger Pre-charging Malfunction	Charging stops
P1CE996	Charger Cooling Fan Revolution Sensor Component Internal Failure	Charging continues / Supply power continues
P1CED1C	Plug-in Control ECU Power Supply (Plus) Circuit Voltage Out of Range	-
P1CF01C	Plug-in Control ECU Power Supply (Minus) Circuit Voltage Out of Range	-
P1EA09E	Solar Charger Enable Circuit Stuck On	Solar charging stops
P1EA41C	Solar Charging Voltage Sensor Circuit Voltage Out of Range	Solar charging stops
P1EA917	Solar Charging Control Module Circuit Voltage Above Threshold	Solar charging stops
P308F49	High Voltage Charging Circuit Short during Pre-Charge	<ol style="list-style-type: none"> <li>1. Charging continues</li> <li>2. Solar charging, remote air conditioning, my room mode, cooling before charging, timer charging, external supply power, recovery of compressor oil from battery cooling refrigerant control: Stops</li> </ol>
P309F49	High Voltage Charging Circuit Consumption Circuit Short	<ol style="list-style-type: none"> <li>1. Charging continues</li> <li>2. Solar charging, remote air conditioning, my room mode, cooling before charging, timer charging, external supply power, recovery of compressor oil from battery cooling refrigerant control: Stops</li> </ol>
U010087	Lost Communication with ECM/PCM "A" Missing Message	-

DTC NO.	DETECTION ITEM	VEHICLE BEHAVIOR WHEN DTC IS OUTPUT
U015587	Lost Communication with Instrument Panel Cluster (IPC) Control Module Missing Message	My room mode, timer charging, AC external supply power (HV supply mode): Stops
U01BB87	Lost Communication with Battery Charger Control Module "B" Missing Message	Charging stops / Supply power stops
U029387	Lost Communication with Hybrid/EV Powertrain Control Module Missing Message	Charging continues / Battery heating continues (Other AC charging and supply power terminated, including optional features)
U113A87	Lost Communication with Solar Charging Control Module Missing Message	Charging continues / Battery heating continues (Other AC charging and supply power terminated, including optional features)
U115187	Lost Communication with Hybrid/EV Powertrain Control Module (ch3) Missing Message	Charging stops / Supply power stops
U117B87	Lost Communication with Hybrid/EV Battery Energy Control Module "A" (ch2) Missing Message	Charging stops / Supply power stops

