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Model Year Start: 2023	**Model:** Prius Prime	**Prod Date Range:** [03/2023 -]
Title: HYBRID / BATTERY CONTROL: PLUG-IN CHARGE CONTROL SYSTEM (for PHEV Model): FREEZE FRAME DATA; 2023 - 2024 MY Prius Prime [03/2023 -]		

FREEZE FRAME DATA

FREEZE FRAME DATA

The plugin charge control ECU records vehicle and plug-in charging condition information as Freeze Frame Data the moment a DTC is stored.

It can be used for estimating or duplicating the vehicle conditions that were present when the malfunction occurred.

Powertrain > Plug-in Control

TESTER DISPLAY
Vehicle Speed
Engine Speed
Calculate Load
Coolant Temperature
Engine Run Time
Throttle Position Sensor No.1 Voltage %
Smoothed Value of BATT Voltage
Warmup Cycle Cleared DTC
Distance from DTC Cleared
Time after DTC Cleared
Running Time from MIL ON
Total Distance Traveled
Total Distance Traveled - Unit

TESTER DISPLAY
MIL ON Run Distance
PISW Status
My Room Operation
ACRL Drive Request
Frequency Switching Signal
IGB Signal
IGB ON Request
IGCT Signal Status
IGCT Keeping Request
IG2 Signal Status
Charging Control Signal Status
A/C Useable Power
A/C Consumption Power
Remote Air Control System
Hybrid/EV Control System Control Mode
Hybrid/EV Output Temperature Sensor
Solar Available Information
Solar Diagnosis Prohibition Notification
Solar Charging Control Mode

TESTER DISPLAY
Solar Charging Permission Signal by Main CPU
Solar Charging Boosting DC/DC Converter Voltage
Solar Charging Boosting DC/DC Converter Input Power
Solar Boosting DC/DC Converter Drive Request
HV/EV Battery Total Voltage
Charging Voltage for Hybrid/EV Battery
Hybrid/EV Battery Local Bus Communication
Hybrid/EV Battery Temperature when Charging Start
Hybrid/EV Battery Maximum Temperature
Hybrid/EV Battery Minimum Temperature
Hybrid/EV Battery Charging/Power Feeding Permission Status with Hybrid/EV Battery Thermal Keep
Hybrid/EV Battery Charging Power
Hybrid/EV Battery Control Status on Thermal Keeping and Charging
Hybrid/EV Battery Current for Driving Control
Hybrid/EV Battery Current for Hybrid/EV Battery Control
Auxiliary Battery Voltage Low Status
Auxiliary Battery Voltage Low Status from Hybrid/EV
Auxiliary Battery Voltage Low Status from Hybrid/EV Battery
Hybrid/EV Communication Enable Information (Hybrid/EV Battery Local Bus)

TESTER DISPLAY
SOC of Immediately after Wake Up
ICHG Current (Instantaneous Value)
Charging Lid Switch Status
Charging Lid Lamp Status
Hood Courtesy Switch Signal
Charging Indicator lighting Request
Charging Connector Connect Status
Charging Connector Connect Status Voltage
Charging Connector Lock Pin Status
Charging Connector Lock Motor Unlock Direction Revolution Request Current
Charging Connector Lock Motor Lock Direction Revolution Request Current
AC Charging Positive Inlet Temperature Sensor Voltage
AC Charging Negative Inlet Temperature Sensor Voltage
AC Charging Positive Inlet Temperature
AC Charging Negative Inlet Temperature
AC Charging Inlet Insert Status
Power Feeding Connecter Power Supply Switch
Interlock Operation Status
Charger Power Supply Voltage Type

TESTER DISPLAY
Charger Operation Status
Charger Operation Request
Charger Input Power
Charger Output Power
Charger Cooling Fan Drive Request
Charger Cooling Fan Driving Duty
Charger Cooling Fan Revolution
Charger Drive Permission Signal
AC Power Supply Rated Current
AC Power Supply Rated Power
Charging Control Information
Charging History Information
DC Operation Mode
System Impedance Increase Abnormal
Total Number of AC Charging
AC Charging Total Time
AC Charging
AC Charging Operation Status
AC Charging Input Minimum Voltage History

TESTER DISPLAY
Target Charging Power
Target Charging Power from Charger
Charging Required Time Calculation Status
Charging Required Time
Charging Elapsed Time
Charging State Elapsed Time
AC Input Voltage for Monitoring
Target AC Input Voltage for Control
AC Input Voltage Instantaneous Value 1 for Waveform Monitoring
AC Input Voltage Instantaneous Value 2 for Waveform Monitoring
AC Input Voltage Instantaneous Value 3 for Waveform Monitoring
AC Input Voltage Instantaneous Value 4 for Waveform Monitoring
AC Input Voltage Instantaneous Value 5 for Waveform Monitoring
AC Input Voltage Instantaneous Value 6 for Waveform Monitoring
AC Input Voltage Instantaneous Value 7 for Waveform Monitoring
AC Input Voltage Instantaneous Value 8 for Waveform Monitoring
AC Input Voltage Instantaneous Value 9 for Waveform Monitoring
AC Input Voltage Instantaneous Value 10 for Waveform Monitoring
AC Input Voltage Instantaneous Value 11 for Waveform Monitoring

TESTER DISPLAY
AC Input Voltage Instantaneous Value 12 for Waveform Monitoring
AC Input Voltage Instantaneous Value 13 for Waveform Monitoring
AC Input Voltage Instantaneous Value 14 for Waveform Monitoring
AC Input Voltage Instantaneous Value 15 for Waveform Monitoring
AC Input Voltage Instantaneous Value 16 for Waveform Monitoring
Time Cycle of Charging Voltage Zero Crossing Point
Plug-in Control ECU Voltage Request (SMP5)
Plug-in Control ECU Voltage (VOMS5)
Plug-in Control Module System Voltage (Plus)
Plug-in Control Module System Voltage (Minus)
AC Power Feeding Control Mode
AC Input Current
Charging Current Upper Limit
Charging Current Duty from Charger
Time Cycle of Charging Current Duty from Charger
Charging Current Limit Status from Charger
Charging Power Limit (Charging Voltage Low)
Timer Wait Request
Power Supply Voltage (SMP5)

TESTER DISPLAY
PFC Boosting Circuit Driver Drive Status
Voltage after Boosting by PFC Boosting Circuit
PFC Boosting Circuit Current Amplitude
PFC Temperature
High Voltage Circuit Shutdown Signal
DC/DC Converter Operation Status
DC/DC Converter Driver Drive Status (for Charging)
DC/DC Converter Temperature (for Charging)
AC 100V Switch Indicator Lighting Request
Power Feeding Isolation Fault Detection
Power Feeding Inverter Operation Status
Power Feeding INV Activate Request
Power Feeding INV Activate Status
Power Feeding INV Output Frequency Setting
Power Feeding INV Output Voltage Setting
Charging/Power Feeding Switching Switch Status
Charging/Power Feeding Switching Switch Request
AC Charging Negative Relay Status
AC Charging Positive Relay Status

TESTER DISPLAY
AC Charging Negative Relay Drive Request
AC Charging Positive Relay Drive Request
AC Charging Precharge Relay Status
AC Charging Precharge Relay Drive Request
Charging Relay Connect Request in CCID Box from CCID Box
Rush Current Prevention Resistance Relay Activate Request
SMRB Control Status
SMRG Control Status
VAI
VAO
+B Voltage