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<b>Model Year Start:</b> 2023	<b>Model:</b> Prius Prime	<b>Prod Date Range:</b> [12/2022 - ]
<b>Title:</b> HYBRID / BATTERY CONTROL: HYBRID BATTERY SYSTEM (for M20A-FXS): FREEZE FRAME DATA; 2023 - 2024 MY Prius Prius Prime [12/2022 - ]		

## **FREEZE FRAME DATA**

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**HINT:**

The battery ECU assembly records vehicle and driving 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. To confirm the details of the hybrid battery system, check the detailed information for the DTC information code in the Data List (INF code).

(a) Select a DTC in order to display its freeze frame data.

**Powertrain > HV Battery > Clear DTCs**

(b) Check the freeze frame information recorded with the DTC.

**Powertrain > HV Battery**

TESTER DISPLAY
Vehicle Speed
Target Engine Power
Engine Speed
Calculate Load
Coolant Temperature
Engine Run Time
Accelerator Position
Throttle Position Sensor No.1 Voltage %
Shift Position
Atmospheric Pressure
Ambient Temperature

TESTER DISPLAY
BATT 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
MIL ON Run Distance
IGB Signal Status
IG2 Signal Status
Ready Signal
Ready ON Prevention Status
HV/EV Activate Condition
SMRG Control Status
SMRB Control Status
WIN Control Limit Power
WOUT Control Limit Power
A/C Consumption Power

TESTER DISPLAY
EV Mode
Stop Light Switch
Airbag Status (Collision)
Airbag Status (Normal)
Generator Revolution
Target Generator Torque
Motor Revolution
Target Motor Torque
Request Motor Regenerative Brake Torque
Motor Regenerate Brake Execution Torque
Generator Carrier Frequency
Motor Carrier Frequency
VL-Voltage before Boosting
VH-Voltage after Boosting
Hybrid/EV Battery SOC
Delta SOC
Hybrid/EV Battery SOC just after IG-ON
Hybrid/EV Battery Maximum SOC
Hybrid/EV Battery Minimum SOC

TESTER DISPLAY
Hybrid/EV Battery Voltage
Hybrid/EV Battery Current
Hybrid/EV Battery Current for Hybrid/EV Battery Control
Hybrid/EV Battery Current for Hybrid/EV Battery Control (Sub)
Hybrid/EV Battery Current Sensor Voltage for Hybrid/EV Battery Control
Hybrid/EV Battery Current Sensor Voltage for Hybrid/EV Battery Control (Sub)
Hybrid/EV Battery Current Sensor Power Supply Voltage
Hybrid/EV Battery Current Sensor Offset Learning Value
Hybrid/EV Battery Current Sensor Offset (High)
Hybrid/EV Battery Current Sensor Offset Learning Value (Sub)
Hybrid/EV Battery Current Sensor Offset (Sub)
Hybrid/EV Battery Control Mode
Hybrid/EV Battery Cell Circuit Open Information for Monitoring IC 1
Hybrid/EV Battery Cell Circuit Open Information for Monitoring IC 2
Hybrid/EV Battery Cell Circuit Open Information for Monitoring IC 3
Hybrid/EV Battery Stack 1 Cell Average Voltage
Hybrid/EV Battery Stack 2 Cell Average Voltage
Hybrid/EV Battery Block 1 Cell Average Voltage
Hybrid/EV Battery Block 2 Cell Average Voltage

TESTER DISPLAY
Hybrid/EV Battery Block 3 Cell Average Voltage
Hybrid/EV Battery Cell Maximum Voltage Up to 1 trip before
Hybrid/EV Battery Cell Minimum Voltage Up to 1 trip before
Hybrid/EV Battery Cell 1 Voltage
Hybrid/EV Battery Cell 2 Voltage
Hybrid/EV Battery Cell 3 Voltage
Hybrid/EV Battery Cell 4 Voltage
Hybrid/EV Battery Cell 5 Voltage
Hybrid/EV Battery Cell 6 Voltage
Hybrid/EV Battery Cell 7 Voltage
Hybrid/EV Battery Cell 8 Voltage
Hybrid/EV Battery Cell 9 Voltage
Hybrid/EV Battery Cell 10 Voltage
Hybrid/EV Battery Cell 11 Voltage
Hybrid/EV Battery Cell 12 Voltage
Hybrid/EV Battery Cell 13 Voltage
Hybrid/EV Battery Cell 14 Voltage
Hybrid/EV Battery Cell 15 Voltage
Hybrid/EV Battery Cell 16 Voltage

TESTER DISPLAY
Hybrid/EV Battery Cell 17 Voltage
Hybrid/EV Battery Cell 18 Voltage
Hybrid/EV Battery Cell 19 Voltage
Hybrid/EV Battery Cell 20 Voltage
Hybrid/EV Battery Cell 21 Voltage
Hybrid/EV Battery Cell 22 Voltage
Hybrid/EV Battery Cell 23 Voltage
Hybrid/EV Battery Cell 24 Voltage
Hybrid/EV Battery Cell 25 Voltage
Hybrid/EV Battery Cell 26 Voltage
Hybrid/EV Battery Cell 27 Voltage
Hybrid/EV Battery Cell 28 Voltage
Hybrid/EV Battery Cell 29 Voltage
Hybrid/EV Battery Cell 30 Voltage
Hybrid/EV Battery Cell 31 Voltage
Hybrid/EV Battery Cell 32 Voltage
Hybrid/EV Battery Cell 33 Voltage
Hybrid/EV Battery Cell 34 Voltage
Hybrid/EV Battery Cell 35 Voltage

TESTER DISPLAY
Hybrid/EV Battery Cell 36 Voltage
Hybrid/EV Battery Cell 37 Voltage
Hybrid/EV Battery Cell 38 Voltage
Hybrid/EV Battery Cell 39 Voltage
Hybrid/EV Battery Cell 40 Voltage
Hybrid/EV Battery Cell 41 Voltage
Hybrid/EV Battery Cell 42 Voltage
Hybrid/EV Battery Cell 43 Voltage
Hybrid/EV Battery Cell 44 Voltage
Hybrid/EV Battery Cell 45 Voltage
Hybrid/EV Battery Cell 46 Voltage
Hybrid/EV Battery Cell 47 Voltage
Hybrid/EV Battery Cell 48 Voltage
Hybrid/EV Battery Cell 49 Voltage
Hybrid/EV Battery Cell 50 Voltage
Hybrid/EV Battery Cell 51 Voltage
Hybrid/EV Battery Cell 52 Voltage
Hybrid/EV Battery Cell 53 Voltage
Hybrid/EV Battery Cell 54 Voltage

TESTER DISPLAY
Hybrid/EV Battery Cell 55 Voltage
Hybrid/EV Battery Cell 56 Voltage
Hybrid/EV Battery Cell 57 Voltage
Hybrid/EV Battery Cell 58 Voltage
Hybrid/EV Battery Cell 59 Voltage
Hybrid/EV Battery Cell 60 Voltage
Hybrid/EV Battery Temperature 1
Hybrid/EV Battery Temperature 2
Hybrid/EV Battery Temperature 3
Hybrid/EV Battery Temperature 4
Hybrid/EV Battery Temperature 5
Hybrid/EV Battery Temperature 6
Hybrid/EV Battery Temperature Sensor Voltage 1
Hybrid/EV Battery Temperature Sensor Voltage 2
Hybrid/EV Battery Temperature Sensor Voltage 3
Hybrid/EV Battery Temperature Sensor Voltage 4
Hybrid/EV Battery Temperature Sensor Voltage 5
Hybrid/EV Battery Temperature Sensor Voltage 6
Hybrid/EV Battery Cooling Fan 1 Drive Request



TESTER DISPLAY
Hybrid/EV Battery Cooling Fan 1 Drive Status
Hybrid/EV Battery Cooling Fan 1 Frequency
Hybrid/EV Battery Cooling Fan Low Speed Request
Hybrid/EV Battery Cooling Fan Intake Air Temperature 1
Hybrid/EV Battery Cooling Fan Intake Air Temperature Sensor Voltage 1

