Last Modified: 12-04-2024	6.11:8.1.0	Doc ID: RM100000028UXQ		
Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [12/2022 -]		
Title: SUPPLEMENTAL RESTRAINT SYSTEMS: AIRBAG SYSTEM: FREEZE FRAME DATA; 2023 - 2024 MY Prius Prius				

Prime [12/2022 -

FREEZE FRAME DATA

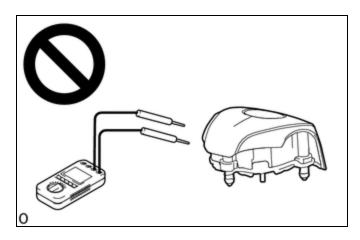
DESCRIPTION

(a) When an airbag system DTC is stored, the airbag ECU assembly stores the current vehicle (ECU, sensor or squib) state as Freeze Frame Data.

CHECK FREEZE FRAME DATA

CAUTION:

Never measure the resistance of the SRS parts because current from the tester may cause the SRS parts to deploy.



(a) Check for DTCs.

Body Electrical > SRS Airbag > Trouble Codes

- (b) According to the GTS display, select a DTC that stored freeze frame data.
- (c) Read the freeze frame data recorded when the DTC was stored.

Body Electrical > SRS Airbag

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Total Distance Traveled	-	-	-	Not applicable
Total Distance Traveled - Unit	-	-	-	Not applicable
IG Voltage	IGR power supply voltage supplied to airbag ECU assembly	0 to 25.5 V	12 V	-
Voltage After Pressure Rising	Airbag ECU assembly internal voltage	0 to 51 V	23.5 V	-

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Squib Driver Voltage	Airbag ECU assembly internal voltage	0 to 51 V	23.5 V	-
Satellite Sensor Power Supply Voltage	Airbag ECU assembly internal voltage	0 to 25.5 V	9.4 V	-
Microcomputer/Sensor Voltage	Airbag ECU assembly internal voltage	0 to 12.75 V	3.3 V	-
Passenger Seat Buckle Switch Terminal Current (Live)	Current applied to front passenger seat buckle switch (when energized)	0 to 38.25 mA	LO output (not fastened): 6 mA HI output (fastened): 14.4 mA	w/ Occupant Classification System
Passenger Seat Buckle Switch Terminal Voltage (Inactive)	Voltage applied to front passenger seat buckle switch (when not energized)	0 to 12.75 V	0.2 V	w/ Occupant Classification System
Satellite G Sensor Output Value	Satellite G sensor output value	-100.000 to 99.804 %	0 %	-
Satellite P Sensor Output Value	Satellite pressure sensor output value	0 to 33.759 %	0 %	-
Satellite P Sensor Absolute Pressure 1	Absolute pressure output of satellite pressure sensor at initial diagnosis	35.9223 to 147.5607 kPa(abs)	-	-
Satellite P Sensor Absolute Pressure 2	Absolute pressure output of satellite pressure sensor at initial diagnosis	35.9223 to 147.5607 kPa(abs)	-	-
Driver Seat Airbag Squib Resistance Value	Squib resistance value	0 to 655.35 OHM	2.10 to 4.20 OHM	-
Driver Seat Airbag Squib Resistance Value Diagnosis Result	Diagnostic result of squib resistance value	Normal or Abnormal	Normal	-
Passenger Seat Airbag Squib Resistance Value	Squib resistance value	0 to 655.35 OHM	1.80 to 3.00 OHM	-

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Passenger Seat Airbag Squib Resistance Value Diagnosis Result	Diagnostic result of squib resistance value	Normal or Abnormal	Normal	-
Driver Seat 2nd Airbag Squib Resistance Value	Squib resistance value	0 to 655.35 OHM	2.10 to 4.20 OHM	w/ Occupant Classification System
Driver Seat 2nd Airbag Squib Resistance Value Diagnosis Result	Diagnostic result of squib resistance value	Normal or Abnormal	Normal	w/ Occupant Classification System
Passenger Seat 2nd Airbag Squib Resistance Value	Squib resistance value	0 to 655.35 OHM	1.80 to 3.00 OHM	w/ Occupant Classification System
Passenger Seat 2nd Airbag Squib Resistance Value Diagnosis Result	Diagnostic result of squib resistance value	Normal or Abnormal	Normal	w/ Occupant Classification System
Driver Seat Knee Airbag Squib Resistance Value	Squib resistance value	0 to 655.35 OHM	2.10 to 4.20 OHM	w/o Occupant Classification System
Driver Seat Knee Airbag Squib Resistance Value Diagnosis Result	Diagnostic result of squib resistance value	Normal or Abnormal	Normal	w/o Occupant Classification System
Right Side 1st Seat Side-airbag Squib Resistance Value	Squib resistance value	0 to 655.35 OHM	1.80 to 3.00 OHM	-
Right Side 1st Seat Side-airbag Squib Resistance Value Diagnosis Result	Diagnostic result of squib resistance value	Normal or Abnormal	Normal	-
Left Side 1st Seat Side-airbag Squib Resistance Value	Squib resistance value	0 to 655.35 OHM	1.80 to 3.00 OHM	-
Left Side 1st Seat Side-airbag Squib Resistance Value Diagnosis Result	Diagnostic result of squib resistance value	Normal or Abnormal	Normal	-

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Driver Seat Pretensioner Squib Resistance Value	Squib resistance value	0 to 655.35 OHM	2.10 to 4.20 OHM	-
Driver Seat Pretensioner Squib Resistance Value Diagnosis Result	Diagnostic result of squib resistance value	Normal or Abnormal	Normal	-
Passenger Seat Pretensioner Squib Resistance Value	Squib resistance value	0 to 655.35 OHM	1.80 to 3.00 OHM	-
Passenger Seat Pretensioner Squib Resistance Value Diagnosis Result	Diagnostic result of squib resistance value	Normal or Abnormal	Normal	-
Right Side Curtain Shield Airbag Squib Resistance Value	Squib resistance value	0 to 655.35 OHM	1.80 to 3.00 OHM	-
Right Side Curtain Shield Airbag Squib Resistance Value Diagnosis Result	Diagnostic result of squib resistance value	Normal or Abnormal	Normal	-
Left Side Curtain Shield Airbag Squib Resistance Value	Squib resistance value	0 to 655.35 OHM	1.80 to 3.00 OHM	-
Left Side Curtain Shield Airbag Squib Resistance Value Diagnosis Result	Diagnostic result of squib resistance value	Normal or Abnormal	Normal	-
Right Side 2nd Seat Side-airbag Squib Resistance Value	Squib resistance value	0 to 655.35 OHM	1.80 to 3.00 OHM	w/ Occupant Classification System
Right Side 2nd Seat Side-airbag Squib Resistance Value Diagnosis Result	Diagnostic result of squib resistance value	Normal or Abnormal	Normal	w/ Occupant Classification System
Left Side 2nd Seat Side-airbag Squib Resistance Value	Squib resistance value	0 to 655.35 OHM	1.80 to 3.00 OHM	w/ Occupant Classification System
Left Side 2nd Seat Side-airbag Squib Resistance Value Diagnosis Result	Diagnostic result of squib resistance value	Normal or Abnormal	Normal	w/ Occupant Classification System

				=
TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Right Side 2nd Seat Pretensioner Squib Resistance Value	Squib resistance value	0 to 655.35 OHM	1.80 to 3.00 OHM	-
Right Side 2nd Seat Pretensioner Squib Resistance Value Diagnosis Result	Diagnostic result of squib resistance value	Normal or Abnormal	Normal	-
Left Side 2nd Seat Pretensioner Squib Resistance Value	Squib resistance value	0 to 655.35 OHM	1.80 to 3.00 OHM	-
Left Side 2nd Seat Pretensioner Squib Resistance Value Diagnosis Result	Diagnostic result of squib resistance value	Normal or Abnormal	Normal	-



