Last Modified: 12-04-2024	6.11:8.1.0	**Doc ID:** RM100000002B0HY
Model Year Start: 2023	**Model:** Prius Prime	**Prod Date Range:** [03/2023 -]
Title: M20A-FXS (FUEL): FUEL SENDER GAUGE ASSEMBLY (for PHEV Model): INSPECTION; 2023 - 2024 MY Prius Prime [03/2023 -]		

INSPECTION

PROCEDURE

1. INSPECT FUEL SENDER GAUGE ASSEMBLY

CAUTION:

Perform the inspection in a well-ventilated area.

Do not perform the inspection near an open flame.

(a) Check that the float moves smoothly between F and E.

(b) Check the fuel sender gauge assembly voltage.

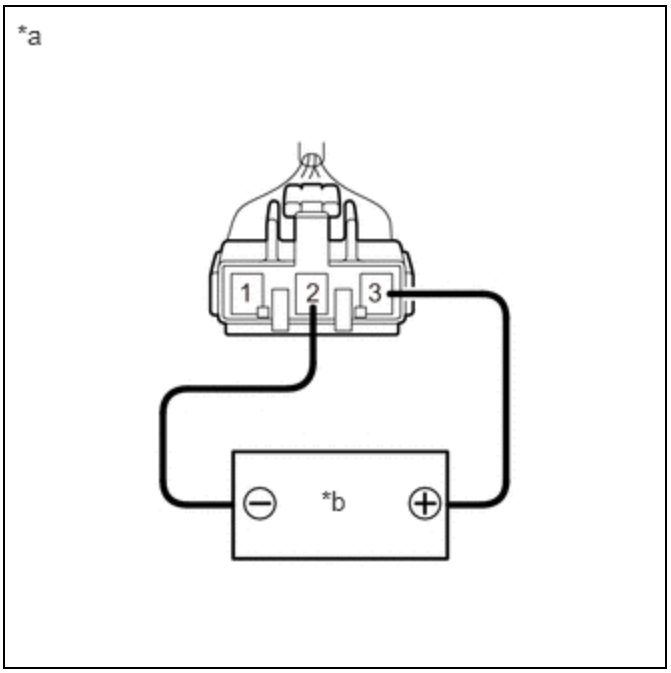
(1) Apply 5 V between terminals 2 and 3.

NOTICE:

- Be careful when connecting the leads, as the fuel sender gauge assembly may be damaged if the leads are connected to the wrong terminals.
- Do not apply more than 6 V to terminals 2 or 3.

HINT:

If a stable power supply is not available, connect 4 nickel-metal hydride batteries (1.2 V each) or equivalent in series.



*a	Component without harness connected (Fuel Sender Gauge Assembly)
*b	Voltage Applied between Terminals

(2) Measure the voltage according to the value(s) in the table below.

Standard Voltage:

TESTER CONNECTION	FLOAT LEVEL	SPECIFIED CONDITION	RESULT
1 - 2	F	4.230 to 4.570 V	V
1 - 2	Between F and E	0.380 to 4.570 V	V
1 - 2	E	0.380 to 0.720 V	V

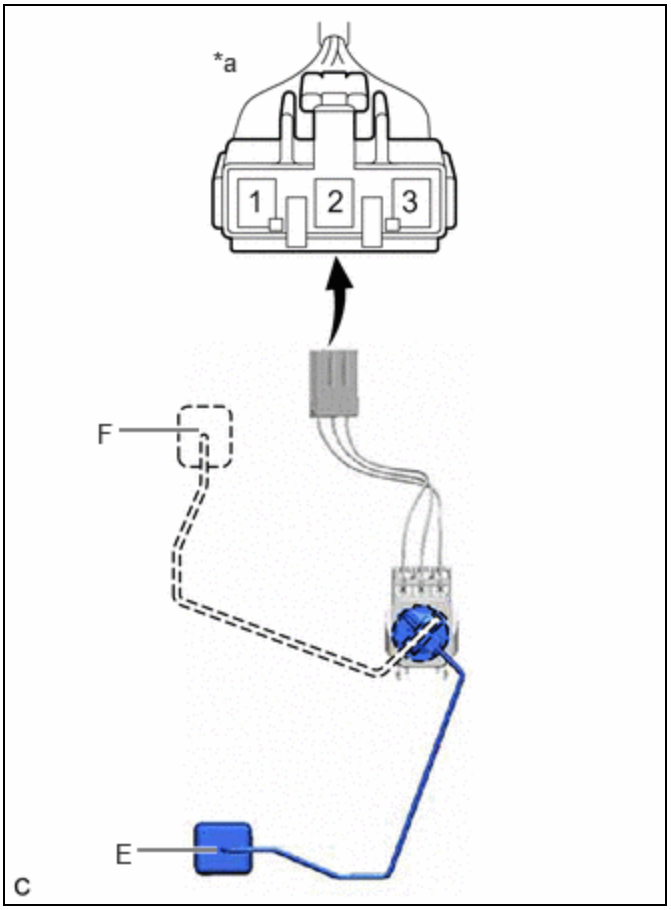
HINT:

The output voltage changes depending on the voltage applied to the terminals.

Output voltage (F) = (0.846 x Voltage applied to terminals) to (0.914 x Voltage applied to terminals)

Output voltage (E) = (0.076 x Voltage applied to terminals) to (0.144 x Voltage applied to terminals)

If the result is not as specified, replace the fuel sender gauge assembly.



*a	Component without harness connected (Fuel Sender Gauge Assembly)

(3) If the result is not as specified, replace the fuel sender gauge assembly.