Last Modified: 12-04-2024	6.11:8.1.0	**Doc ID:** RM1000000029ZLJ
Model Year Start: 2023	**Model:** Prius Prime	**Prod Date Range:** [12/2022 -]
Title: M20A-FXS (ENGINE CONTROL): ENGINE COOLANT TEMPERATURE SENSOR: INSPECTION; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

INSPECTION

CAUTION / NOTICE / HINT

CAUTION:

- Do not put your hands into the water that has been heated for the inspection.
- Touching the heated water could result in burns.

PROCEDURE

1. INSPECT ENGINE COOLANT TEMPERATURE SENSOR

(a) Measure the resistance according to the value(s) in the table below.

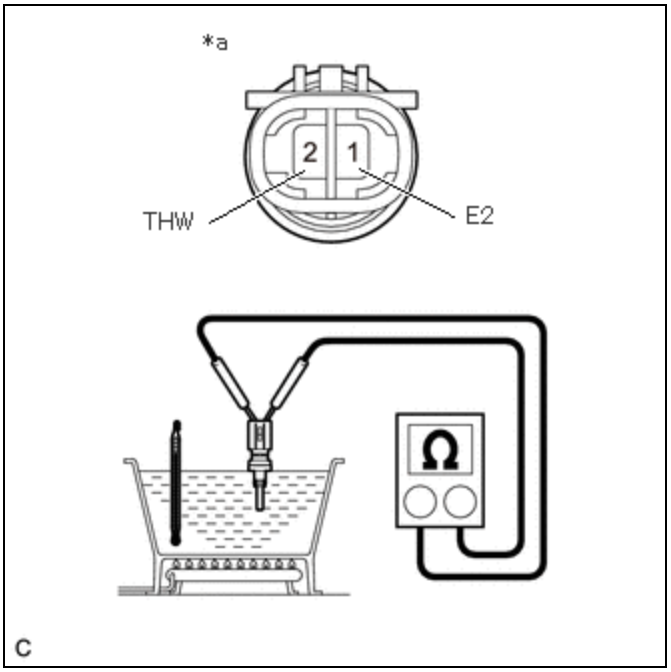
Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
1 (E2) - 2 (THW)	20°C (68°F)	2.32 to 2.59 kΩ	kΩ
1 (E2) - 2 (THW)	80°C (176°F)	0.310 to 0.326 kΩ	kΩ

NOTICE:

If checking the engine coolant temperature sensor in water, be careful not to allow water to contact the terminals. After checking, wipe the water off the engine coolant temperature sensor.

If the result is not as specified, replace the engine coolant temperature sensor.



*a	Component without harness connected (Engine Coolant Temperature Sensor)

2. INSPECT NO. 2 ENGINE COOLANT TEMPERATURE SENSOR

(a) Measure the resistance according to the value(s) in the table below.

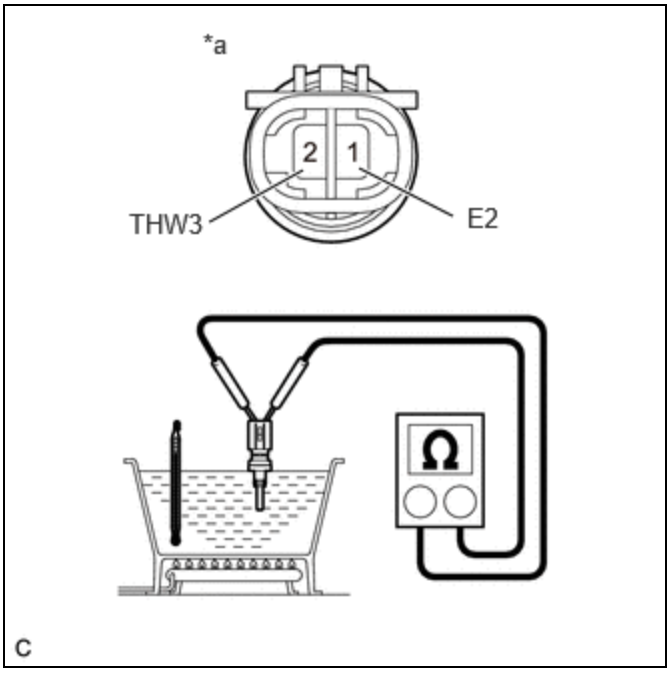
Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
1 (E2) - 2 (THW3)	20°C (68°F)	2.32 to 2.59 kΩ	kΩ
1 (E2) - 2 (THW3)	80°C (176°F)	0.310 to 0.326 kΩ	kΩ

NOTICE:

If checking the No. 2 engine coolant temperature sensor in water, be careful not to allow water to contact the terminals. After checking, wipe the water off the No. 2 engine coolant temperature sensor.

If the result is not as specified, replace the No. 2 engine coolant temperature sensor.



*a	Component without harness connected (No. 2 Engine Coolant Temperature Sensor)