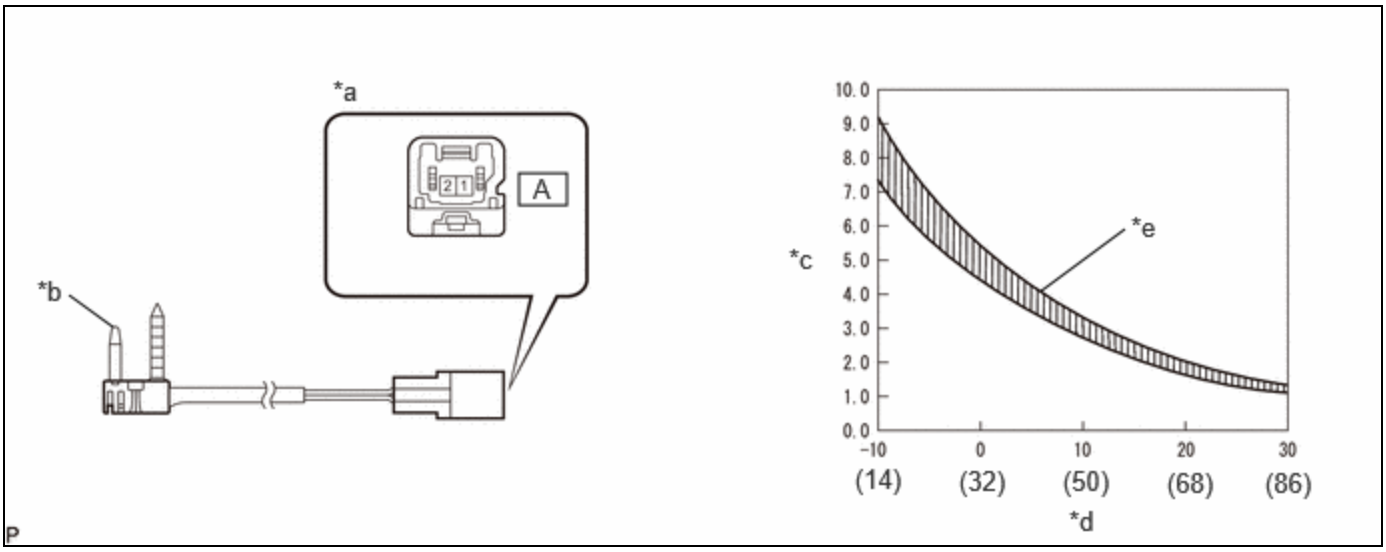
Last Modified: 12-04-2024	6.11:8.1.0	**Doc ID:** RM1000000029ZWC
Model Year Start: 2023	**Model:** Prius Prime	**Prod Date Range:** [12/2022 -]
Title: HEATING / AIR CONDITIONING: FRONT EVAPORATOR TEMPERATURE SENSOR: INSPECTION; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

INSPECTION

PROCEDURE

1. INSPECT NO. 1 COOLER THERMISTOR

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



*a	Component without harness connected (No. 1 Cooler Thermistor)	*b	Sensing Portion
*c	Resistance (kΩ)	*d	Temperature (°C (°F))
*e	Allowable Range	-	-

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
A-1 - A-2	-10°C (14°F)	7.30 to 9.10 kΩ	kΩ
A-1 - A-2	-5°C (23°F)	5.65 to 6.95 kΩ	kΩ
A-1 - A-2	0°C (32°F)	4.40 to 5.35 kΩ	kΩ
A-1 - A-2	5°C (41°F)	3.40 to 4.15 kΩ	kΩ
A-1 - A-2	10°C (50°F)	2.70 to 3.25 kΩ	kΩ
A-1 - A-2	15°C (59°F)	2.14 to 2.58 kΩ	kΩ
A-1 - A-2	20°C (68°F)	1.71 to 2.05 kΩ	kΩ
A-1 - A-2	25°C (77°F)	1.38 to 1.64 kΩ	kΩ
A-1 - A-2	30°C (86°F)	1.11 to 1.32 kΩ	kΩ

NOTICE:

- Hold the sensor only by its connector. Touching the sensing portion may change the resistance value.
- When measuring, the sensor temperature must be the same as the ambient temperature.

HINT:

As the temperature increases, the resistance decreases (see the graph).

If the resistance is not as specified, replace the No. 1 cooler thermistor.