Last Modified: 12-04-2024	6.11:8.1.0	**Doc ID:** RM100000002AXEF
Model Year Start: 2023	**Model:** Prius Prime	**Prod Date Range:** [03/2023 -]
Title: HEATING / AIR CONDITIONING: DISCHARGE TEMPERATURE SENSOR: INSPECTION; 2023 - 2024 MY Prius Prius Prime [03/2023 -]		

INSPECTION

PROCEDURE

1. INSPECT DISCHARGE TEMPERATURE SENSOR

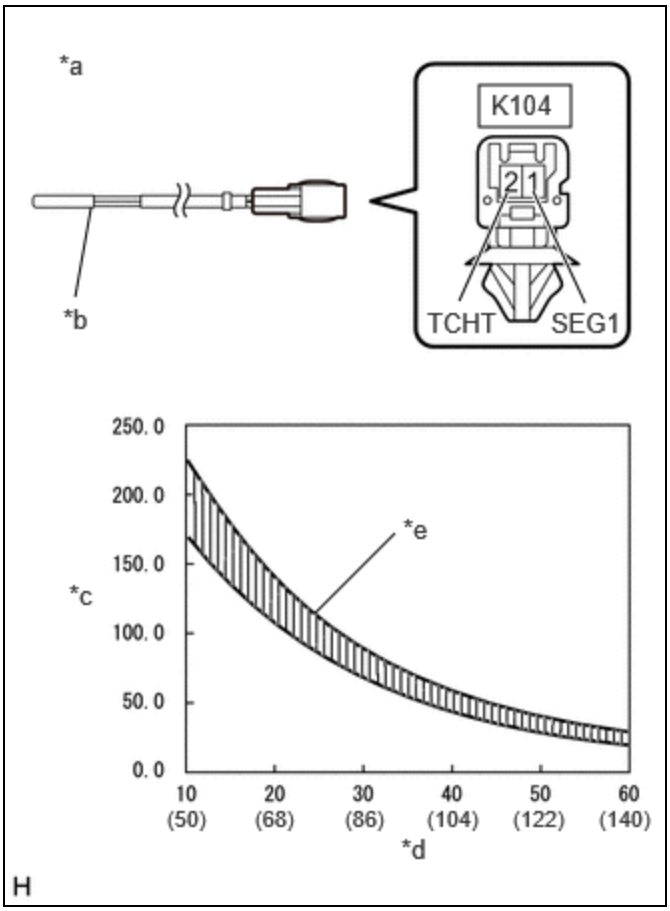
(a) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

EWD INFO

Click Location & Routing(K104)
Click Connector(K104)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
K104-1 (SEG1) - K104-2 (TCHT)	10°C (50°F)	166.5 to 222.7 kΩ	kΩ
K104-1 (SEG1) - K104-2 (TCHT)	15°C (59°F)	131.8 to 174.5 kΩ	kΩ
K104-1 (SEG1) - K104-2 (TCHT)	20°C (68°F)	105.0 to 137.7 kΩ	kΩ
K104-1 (SEG1) - K104-2 (TCHT)	25°C (77°F)	84.1 to 109.4 kΩ	kΩ
K104-1 (SEG1) - K104-2 (TCHT)	30°C (86°F)	67.8 to 87.5 kΩ	kΩ
K104-1 (SEG1) - K104-2 (TCHT)	35°C (95°F)	55.0 to 70.4 kΩ	kΩ
K104-1 (SEG1) - K104-2 (TCHT)	40°C (104°F)	44.9 to 57.0 kΩ	kΩ
K104-1 (SEG1) - K104-2 (TCHT)	45°C (113°F)	36.9 to 46.4 kΩ	kΩ
K104-1 (SEG1) - K104-2 (TCHT)	50°C (122°F)	30.4 to 38.0 kΩ	kΩ
K104-1 (SEG1) - K104-2 (TCHT)	55°C (131°F)	25.2 to 31.3 kΩ	kΩ
K104-1 (SEG1) - K104-2 (TCHT)	60°C (140°F)	21.0 to 25.9 kΩ	kΩ



*a	Component without harness connected (Discharge Temperature Sensor)
*b	Sensing Portion
*c	Resistance (kΩ)
*d	Temperature (°C (°F))
*e	Allowable Range

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 result is not as specified, replace the discharge temperature sensor.