Last Modified: 12-04-2024	6.11:8.1.0	**Doc ID:** RM1000000029ZKW
Model Year Start: 2023	**Model:** Prius Prime	**Prod Date Range:** [12/2022 -]
Title: M20A-FXS (ENGINE CONTROL): CAMSHAFT OIL CONTROL SOLENOID: INSPECTION; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

INSPECTION

PROCEDURE

1. INSPECT CAM TIMING OIL CONTROL SOLENOID ASSEMBLY

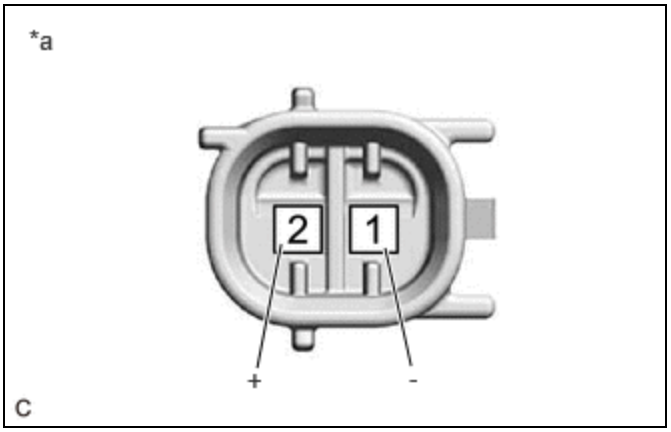
(a) Check the resistance.

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
1 (-) - 2 (+)	0°C (32°F)	6.3 to 7.3 Ω	Ω
1 (-) - 2 (+)	20°C (68°F)	6.9 to 7.9 Ω	Ω
1 (-) - 2 (+)	40°C (104°F)	7.4 to 8.6 Ω	Ω

If the result is not as specified, replace the cam timing oil control solenoid assembly.



*a	Component without harness connected (Cam Timing Oil Control Solenoid Assembly)

(b) Stroke Amount Inspection

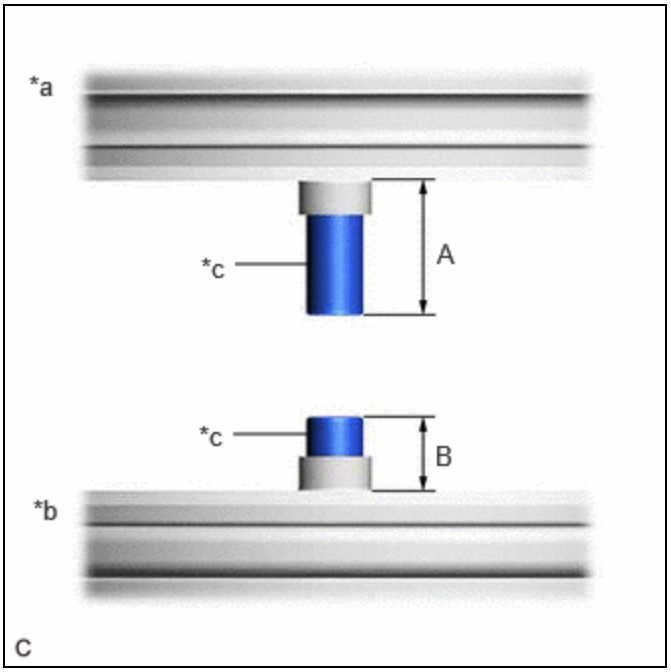
(1) Using a vernier caliper, measure length (A) and (B) with the shaft of the cam timing oil control solenoid assembly set in the respective positions shown in the illustration.

NOTICE:

Do not apply auxiliary battery voltage to the terminals of the cam timing oil control solenoid assembly.

HINT:

If the shaft does not extend under its own weight, extend the shaft with your fingers.



*a	Shaft Side Facing Down
*b	Shaft Side Facing Up
*c	Shaft

(2) Calculate the stroke amount based on the difference of length (A) and (B).

Standard:

SPECIFIED CONDITION	RESULT
4.3 mm or higher 0.169 in. or higher	mm in.

HINT:

Stroke amount = length (A) - length (B)

If the value is not as specified, replace the cam timing oil control solenoid assembly.