

<b>Last Modified:</b> 12-04-2024	6.11:8.1.0	<b>Doc ID:</b> RM100000029H18
<b>Model Year Start:</b> 2023	<b>Model:</b> Prius Prime	<b>Prod Date Range:</b> [12/2022 - ]
<b>Title:</b> METER / GAUGE / DISPLAY: METER / GAUGE SYSTEM: Engine Oil Pressure Switch Circuit; 2023 - 2024 MY Prius Prius Prime [12/2022 - ]		

## Engine Oil Pressure Switch Circuit

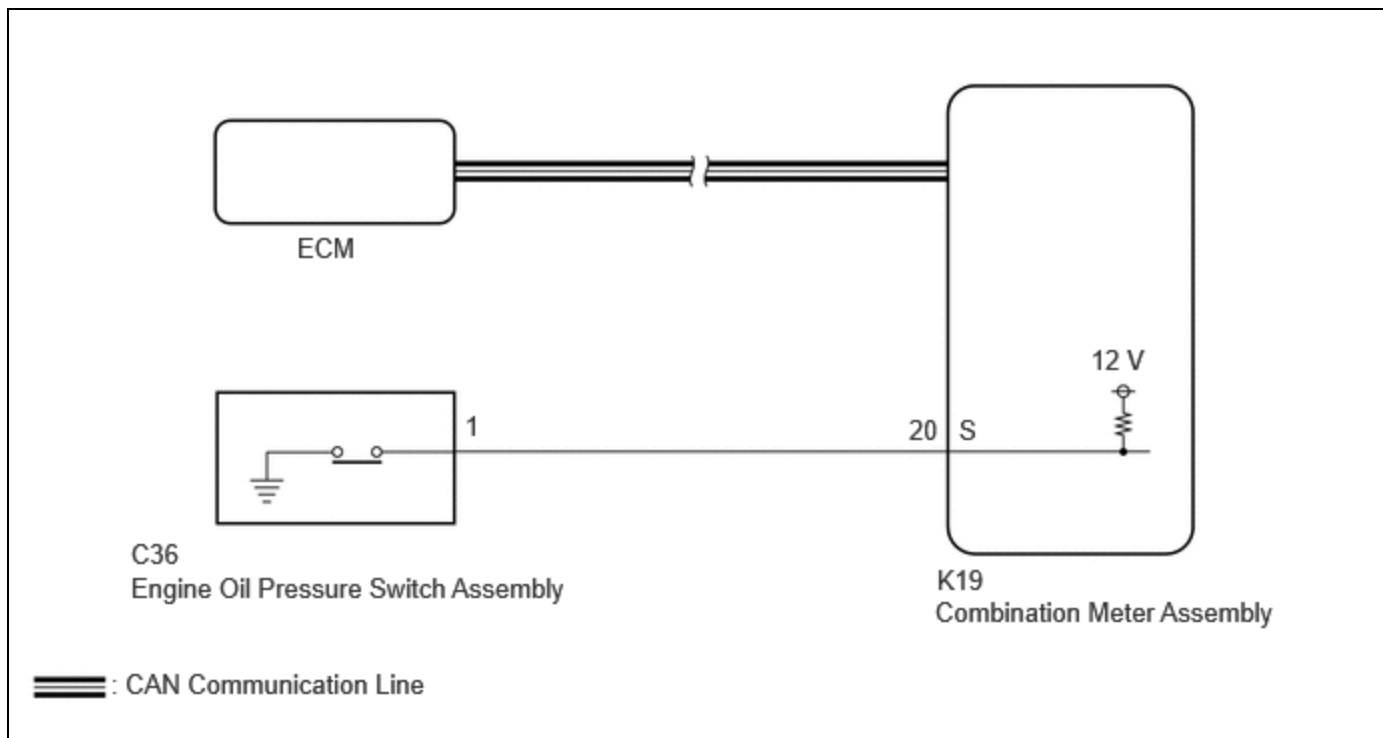
## DESCRIPTION

The combination meter assembly and engine oil pressure switch assembly are connected via direct line. The combination meter assembly determines the engine oil pressure based on the engine oil pressure switch signal.

### HINT:

- The combination meter assembly receives various signals in order to output warnings from the ECM and hybrid vehicle control ECU via CAN communication.
- The combination meter assembly operates the following to output oil pressure warnings:
  - Engine oil pressure warning buzzer
  - Engine oil pressure warning message on multi-information display

## WIRING DIAGRAM



## CAUTION / NOTICE / HINT

### NOTICE:

- When replacing the combination meter assembly, always replace it with a new one. If a combination meter assembly which was installed to another vehicle is used, the information stored in it will not match the information from the vehicle and a DTC may be stored.
- The following troubleshooting procedure is based on the assumption that the SFI system and hybrid control system are normal. Confirm that the SFI system and hybrid control system are not malfunctioning before performing the following procedure.

SFI system: [Click here](#) INFO

Hybrid control system: [Click here](#) INFO

- When replacing the combination meter assembly, update the ECU security key.

[Click here](#) INFO

## PROCEDURE

**1. INSPECT ENGINE OIL PRESSURE SWITCH ASSEMBLY**

(a) Inspect the engine oil pressure switch assembly.

[Click here](#) INFO

**NG** ▶ **REPLACE ENGINE OIL PRESSURE SWITCH ASSEMBLY**

**OK**



**2. CHECK HARNESS AND CONNECTOR (ENGINE OIL PRESSURE SWITCH ASSEMBLY - COMBINATION METER ASSEMBLY)**

(a) Disconnect the K19 combination meter assembly connector.

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

Standard Resistance:



[Click Location & Routing\(C36,K19\)](#)

[Click Connector\(C36\)](#)

[Click Connector\(K19\)](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
C36-1 - K19-20 (S)	Always	Below 1 Ω
C36-1 or K19-20 (S) - Body ground	Always	10 kΩ or higher

**OK** ▶ **REPLACE COMBINATION METER ASSEMBLY**

**NG** ▶ **REPAIR OR REPLACE HARNESS OR CONNECTOR**

