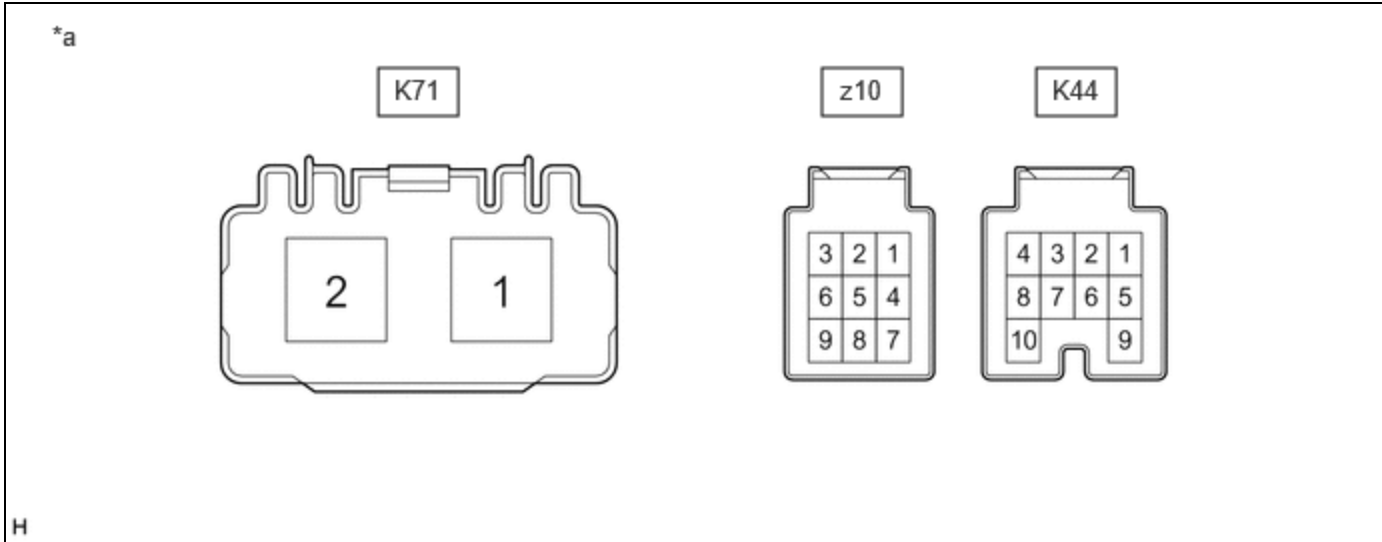


Last Modified: 12-04-2024	6.11:8.1.0	Doc ID: RM100000028PGB
Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [12/2022 -]
Title: POWER ASSIST SYSTEMS: POWER STEERING SYSTEM: TERMINALS OF ECU; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

TERMINALS OF ECU

CHECK POWER STEERING ECU ASSEMBLY



*a	Component without harness connected (Power Steering ECU Assembly)	-	-
----	--	---	---

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

NOTICE:

When the EPS warning light is illuminated due to a malfunction, the fail-safe function may cause the voltage of the power steering ECU assembly terminals to become 0 V.

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
K44-1 (IG) - Body ground	IG power source	Ignition switch ON	8 to 16 V
K44-7 (CANH) - K44-8 (CANL)	CAN communication line	Ignition switch off	54 to 69 Ω
z10-1 (TRQ2) - z10-2 (TRQG2)	Torque sensor 2 signal	Ignition switch ON (READY) and steering wheel not being turned (without load)	2.3 to 2.7 V
		Ignition switch ON (READY) and steering wheel being turned to the right with vehicle stopped	1.2 to 2.5 V
		Ignition switch ON (READY) and steering wheel being turned to the left with vehicle stopped	2.5 to 3.8 V
z10-2 (TRQG2) - Body ground	Torque sensor 2 ground	Always	Below 1 Ω

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
z10-3 (TRQV2) - z10-2 (TRQG2)	Torque sensor 2 voltage source	Ignition switch ON	4.5 to 5.5 V
z10-7 (TRQV1) - z10-8 (TRQG1)	Torque sensor 1 voltage source	Ignition switch ON	4.5 to 5.5 V
z10-8 (TRQG1) - Body ground	Torque sensor 1 ground	Always	Below 1 Ω
z10-9 (TRQ1) - z10- 8 (TRQG1)	Torque sensor signal	Ignition switch ON (READY) and steering wheel not being turned (without load)	2.3 to 2.7 V
		Ignition switch ON (READY) and steering wheel being turned to the right with vehicle stopped	2.5 to 3.8 V
		Ignition switch ON (READY) and steering wheel being turned to the left with vehicle stopped	1.2 to 2.5 V
K71-1 (PIG) - Body ground	Power source	Always	9 to 16 V
K71-2 (PGND) - Body ground	Power ground	Always	Below 1 Ω

If the result is not as specified, the ECU may be malfunctioning.

