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|---|---------------------------|--------------------------------------|
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| <b>Model Year Start:</b> 2023   | <b>Model:</b> Prius Prime | <b>Prod Date Range:</b> [12/2022 - ] |
| <b>Title:</b> POWER ASSIST SYSTEMS: POWER STEERING SYSTEM: C123A17; Supply Voltage Circuit Circuit Voltage Above Threshold; 2023 - 2024 MY Prius Prius Prime [12/2022 - ] |                           |                                      |

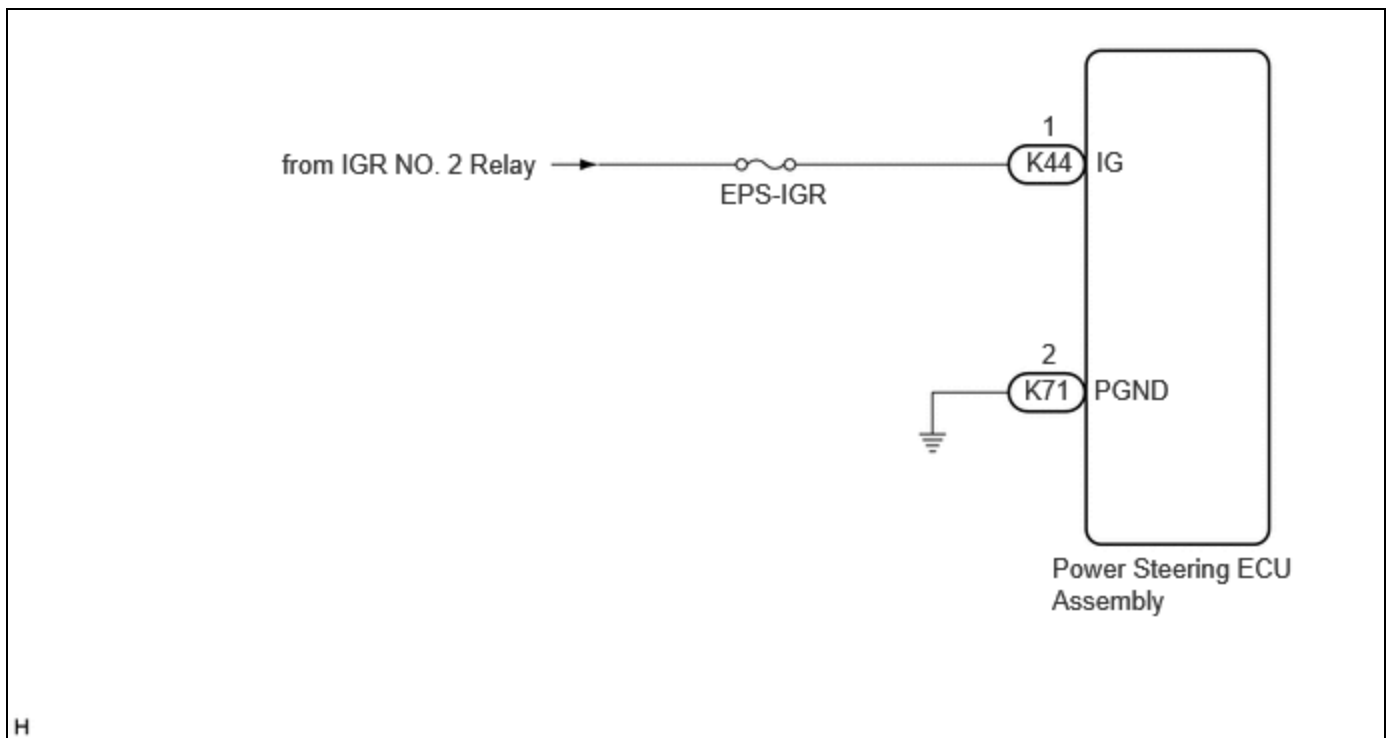
|            |                |   |
|------------|----------------|---|
| <b>DTC</b> | <b>C123A17</b> | <b>Supply Voltage Circuit Circuit Voltage Above Threshold</b> |
|------------|----------------|---|

## DESCRIPTION

The power steering ECU assembly distinguishes the ignition switch status as on (IG) or off through the IG power source circuit.

| DTC NO. | DETECTION ITEM   | DTC DETECTION CONDITION      | TROUBLE AREA   | WARNING INDICATE            | DTC OUTPUT FROM | PRIORITY | RETURN-TO-NORMAL CONDITION  |
|---------|--|------------------------------|--|-----------------------------|-----------------|----------|---|
| C123A17 | Supply Voltage Circuit Circuit Voltage Above Threshold | IG voltage is 18.5 V or more | <ul style="list-style-type: none"> <li>• EPS-IGR fuse</li> <li>• IG power source circuit</li> <li>• Power steering ECU assembly</li> </ul> | EPS warning light: Comes on | EMPS            | A        | The ECU judges the system has returned to normal or the ignition switch is turned on (IG) again |

## WIRING DIAGRAM



## CAUTION / NOTICE / HINT

### NOTICE:

Inspect the fuses for circuits related to this system before performing the following procedure.

## PROCEDURE

|           |  |
|-----------|--|
| <b>1.</b> | <b>CHECK HARNESS AND CONNECTOR (AUXILIARY BATTERY - POWER STEERING ECU ASSEMBLY)</b> |
|-----------|--|

Pre-procedure1

(a) Disconnect the K71 and K44 power steering ECU assembly connectors.

Procedure1

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

Standard Voltage:



[Click Location & Routing\(K44\)](#)

[Click Connector\(K44\)](#)

| TESTER CONNECTION        | CONDITION          | SPECIFIED CONDITION | RESULT |
|--------------------------|--------------------|---------------------|--------|
| K44-1 (IG) - Body ground | Ignition switch ON | 8 to 16 V           | V      |

Procedure2

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

Standard Resistance:



[Click Location & Routing\(K71\)](#)

[Click Connector\(K71\)](#)

| TESTER CONNECTION          | CONDITION | SPECIFIED CONDITION | RESULT   |
|----------------------------|-----------|---------------------|----------|
| K71-2 (PGND) - Body ground | Always    | Below 1 $\Omega$    | $\Omega$ |

Post-procedure1

(d) None

**OK** **REPLACE POWER STEERING ECU ASSEMBLY**

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

