

DTC**C1521/25****Short in Motor Circuit****DESCRIPTION**

The power steering ECU supplies current to the power steering motor through this circuit.

DTC No.	DTC Detection Condition	Trouble Area
C1521/25	Motor over current	Power steering ECU

INSPECTION PROCEDURE**1****RECONFIRM DTC**

(a) Check for DTC.

OK:**DTC is not output.****OK**

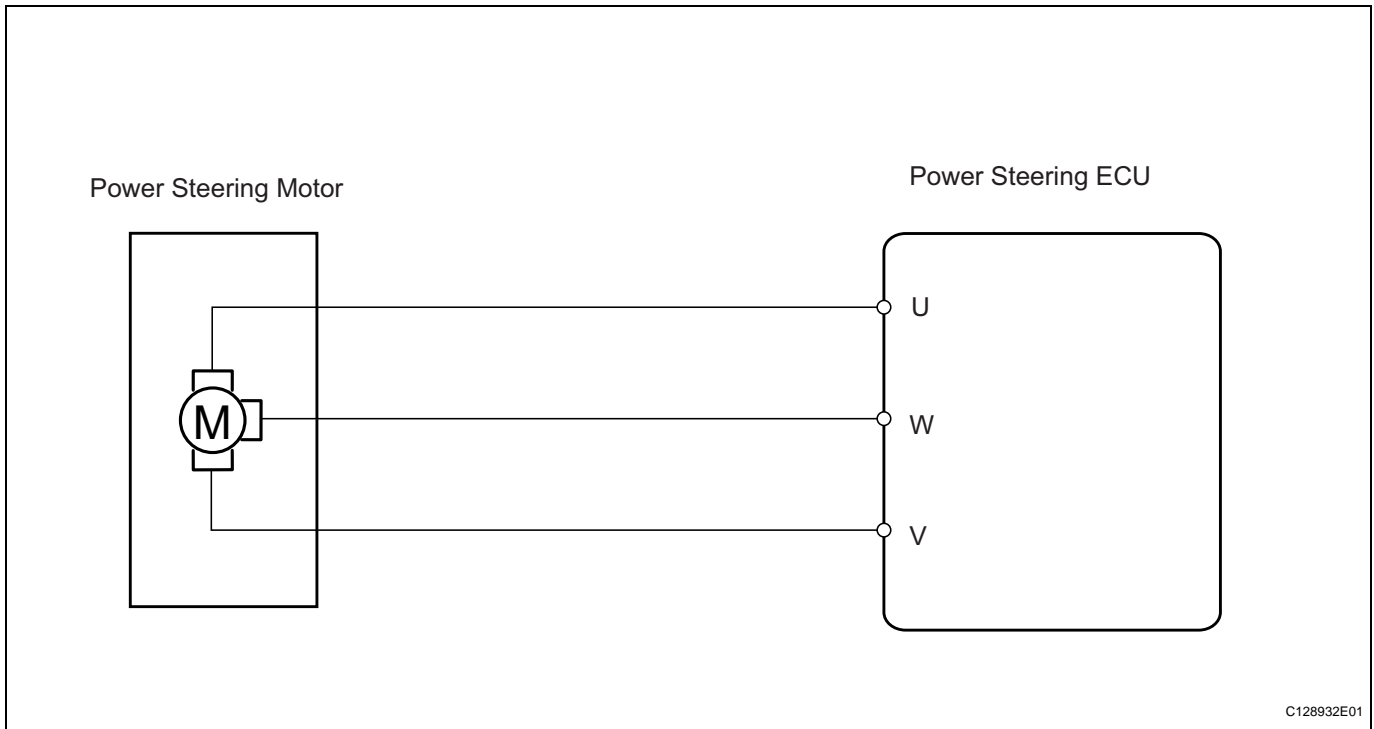
**PROCEED TO NEXT CIRCUIT INSPECTION
SHOWN IN PROBLEM SYMPTOMS TABLE**

NG**REPLACE POWER STEERING ECU**

DTC**C1524/24****Motor Terminal Voltage Malfunction****DESCRIPTION**

The power steering ECU supplies the current to the power steering motor through the motor circuit.

DTC No.	DTC Detection Condition	Trouble Area
C1524/24	Short (or open) in motor circuit or abnormal voltage or current in motor circuit	<ul style="list-style-type: none"> Steering column assembly Power steering ECU

WIRING DIAGRAM**PS****INSPECTION PROCEDURE****1****READ VALUE OF INTELLIGENT TESTER (MOTOR VOLTAGE)**

- Connect the intelligent tester (with CAN VIM) to the DLC3.
- Turn the ignition switch ON and press the intelligent tester main switch ON.
- Select the items "MTR TERMINAL(U)", "MTR TERMINAL(V)", "MTR TERMINAL(W)" in the DATA LIST and read the value displayed on the intelligent tester.

Power steering ECU

Item	Item Description: Range (Display)	Inspection Condition	Reference Value
MTR TERMINAL(U)	Motor terminal voltage (U phase): Min.: 0 V Max.: 46.667 V	Steering wheel is turned	While turning the steering wheel, a value within the range of 1 V to approximately 0.7 V less than the battery voltage is displayed. (The value changes according to the steering load.)

Item	Item Description: Range (Display)	Inspection Condition	Reference Value
MTR TERMINAL(V)	Motor terminal voltage (V phase): Min.: 0 V Max.: 46.667 V	Steering wheel is turned	While turning the steering wheel, a value within the range of 1 V to approximately 0.7 V less than the battery voltage is displayed. (The value changes according to the steering load.)
MTR TERMINAL(W)	Motor terminal voltage (W phase): Min.: 0 V Max.: 46.667 V	Steering wheel is turned	While turning the steering wheel, a value within the range of 1 V to approximately 0.7 V less than the battery voltage is displayed. (The value changes according to the steering load.)

Result

Result	Proceed to
While turning the steering wheel, a value within the range of 1 V to approximately 0.7 V less than the battery voltage is displayed. (Power assist is operating.)	A
While turning the steering wheel, 0 V or a value equal to the battery voltage is displayed. (Power assist is not operating.)	B

B

REPLACE STEERING COLUMN ASSEMBLY

A

REPLACE POWER STEERING ECU