

DTC	C2864/84	Motor Load Short Circuit Malfunction
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CIRCUIT DESCRIPTION

Refer to DTC C2861/81 on page [DI-1 10](#).

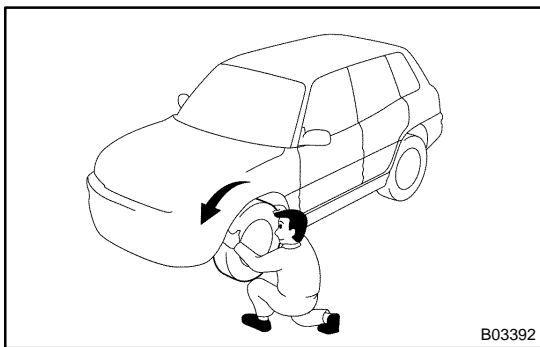
DTC No.	DTC Detection Condition	Trouble Area
C2864/84	When SDOWN signal is ON, SC signal is HIGH for 0.05 sec.	<ul style="list-style-type: none"> • Open in SC signal circuit • Motor inverter • Traction motor • EV control ECU

WIRING DIAGRAM

Refer to DTC C2861/81 on page [DI-1 10](#).

INSPECTION PROCEDURE

1	Check whether or not front wheel turns smoothly.
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PREPARATION:

- (a) Shift the shift lever to the neutral position.
- (b) Jack up one of the front wheels.

CHECK:

Check whether or not the wheel turns smoothly at the motor switch OFF.

HINT:

Lock one wheel when turning the other front wheel.

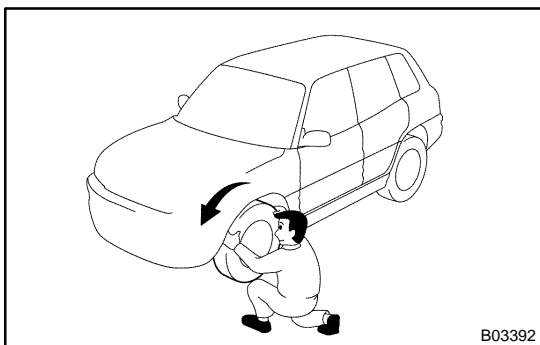
OK:

The wheel turns smoothly.

OK	Go to step 5.
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2	Disconnect traction motor cables, and check whether or not wheel turns smoothly.
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PREPARATION:

- (a) Remove the PCU cover.
- (b) Disconnect the traction motor cables.
- (c) Shift the shift lever to the neutral position.
- (d) Jack up one of the front wheel.

CHECK:

Check whether or not the wheel turns smoothly of the motor switch OFF.

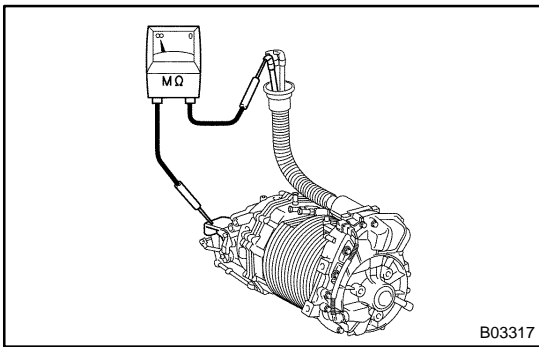
HINT:
Lock one wheel when turning the other front wheel.

OK:
The wheel turns smoothly.

OK → Replace motor inverter.

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3 Check resistance between cables and case of traction motor.



PREPARATION:
Disconnect the traction motor cables.

CHECK:
Using a megger (1,000 V), measure the resistance between cables W/U/V and case of the traction motor.

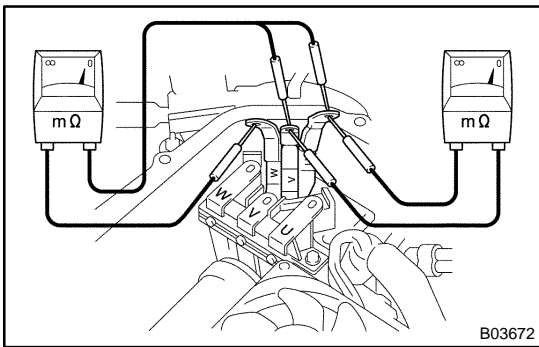
HINT:
Lock the other front wheel when turning one of the front wheels.

OK:
Resistance: 10 MΩ or more

NG → Replace traction motor.

OK

4 Check resistance between cables W and U, W and V, and U and V of traction motor.



PREPARATION:
Disconnect the traction motor cables.

CHECK:
Using a milliohmmeter, measure the resistance between cables W and U, W and V, and U and V of the traction motor.

OK:
Resistance: 23 - 27 mΩ

OK → Replace traction motor.

OK

5	Check for open in harness and connector in SC circuit between EV control ECU and motor inverter.
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OK	Replace motor inverter.
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Repair or replace harness or connector.
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