

CIRCUIT INSPECTION

DTC	11, 15	Actuator Motor Circuit
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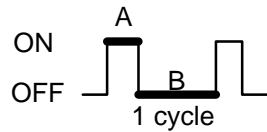
CIRCUIT DESCRIPTION

Actuator motor is operated by signals from the ECU. Acceleration and deceleration signals are transmitted according to changes in the Duty Ratio (See below).

Duty Ratio:

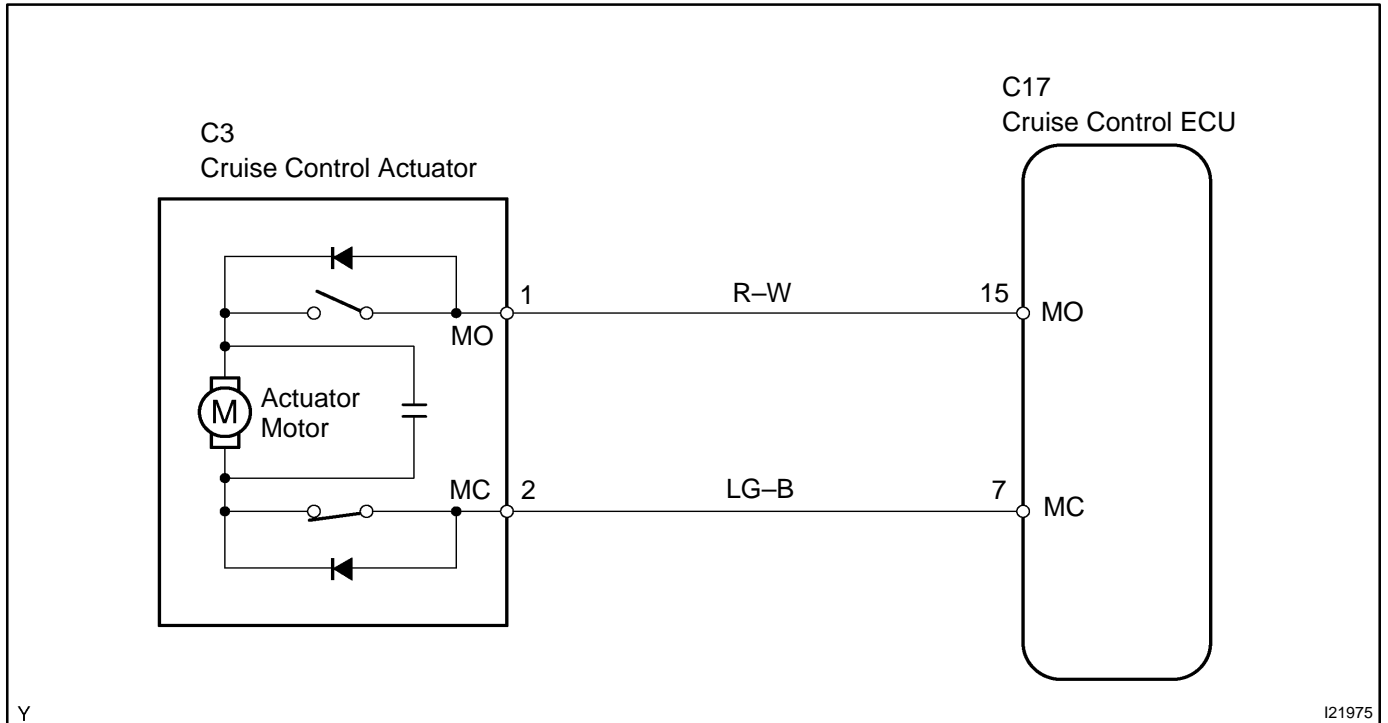
The duty ratio is a ratio of a period of continuity in one cycle. For example, if A is a period of continuity in one cycle, and B is a period of non-continuity.

$$\text{Duty Ratio} = \frac{A}{A + B} \times 100 (\%)$$



DTC No.	DTC Detection Condition	Trouble Area
11	Short in actuator motor circuit	<ul style="list-style-type: none"> • Actuator motor • Harness or connector between cruise control ECU and actuator motor • Cruise control ECU
15	Open in actuator motor circuit	<ul style="list-style-type: none"> • Actuator motor

WIRING DIAGRAM

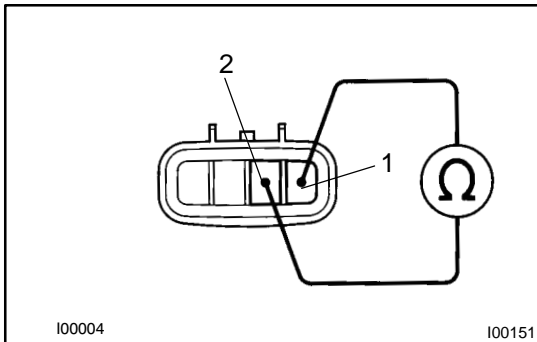


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INSPECTION PROCEDURE

1 Check resistance between terminals 1 and 2 of actuator motor.

**PREPARATION:**

- (a) Turn the ignition switch OFF.
- (b) Disconnect the actuator connector.

CHECK:

Measure the resistance between terminals 1 and 2.

HINT:

If the control plate is in the fully opened or fully closed position, the resistance can not be measured.

OK:

Resistance: More than 4.2 Ω

NG

Replace cruise control actuator.

OK

2 Check for open and short in harness and connector between cruise control ECU and actuator motor (See page IN-28).

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Repair or replace harness or connector.

OK

Check and replace cruise control ECU.