DTC	11	ACTUATOR MOTOR CIRCUIT

DTC	15	ACTUATOR MOTOR CIRCUIT

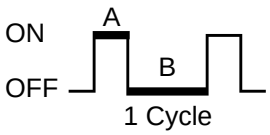
CIRCUIT DESCRIPTION

The actuator motor is operated by signals from the cruise control ECU assy. Acceleration and deceleration signals are transmitted by changes in the Duty Ratio (See below).

Duty Ratio:

The duty ratio is the ratio of the period of continuity in one cycle. For example, if A is the period of continuity in one cycle, and B is the period of non–continuity, then.

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



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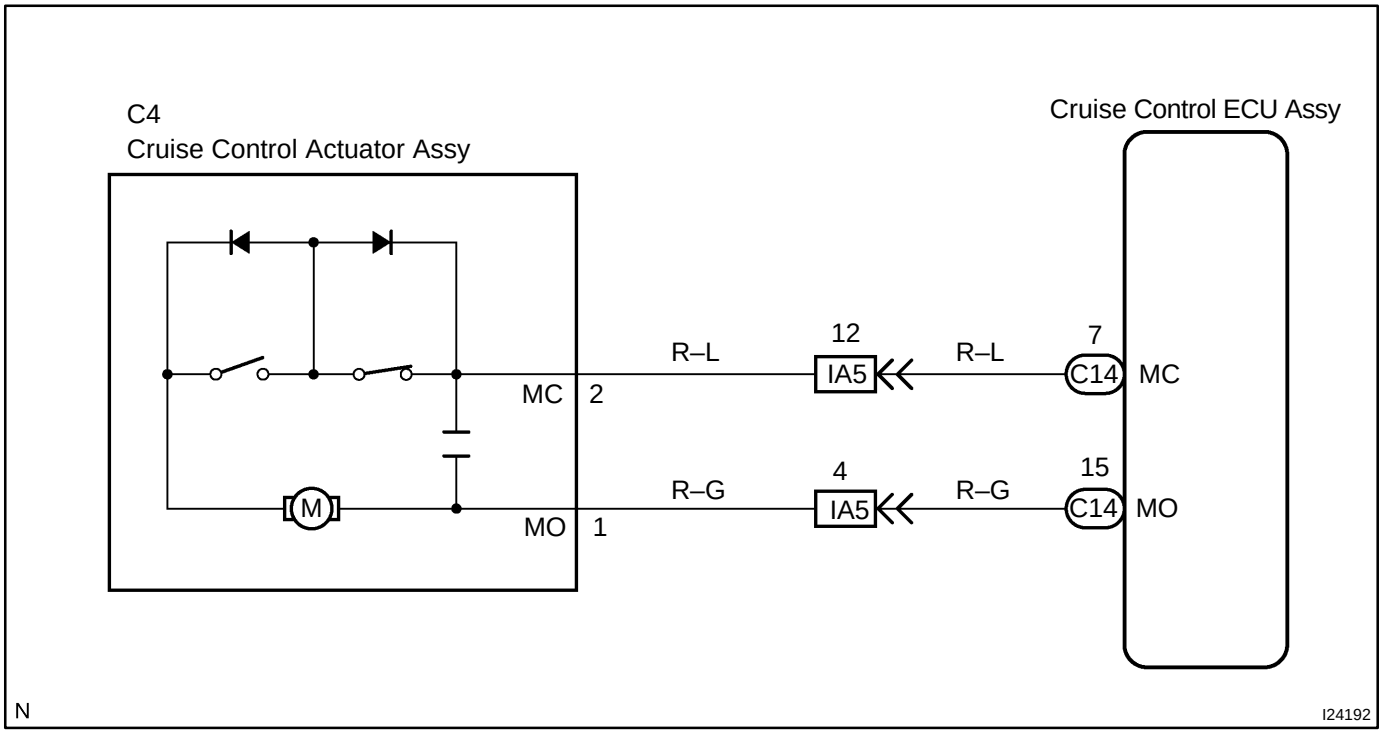
DTC No.	DTC Detecting Condition	Trouble Area
11	• Short in actuator motor circuit.	• Cruise control actuator assy (Actuator motor) • Actuator motor circuit • Cruise control ECU assy
15	• Open in actuator motor circuit.	• Cruise control actuator assy (Actuator motor)

WIRING DIAGRAM



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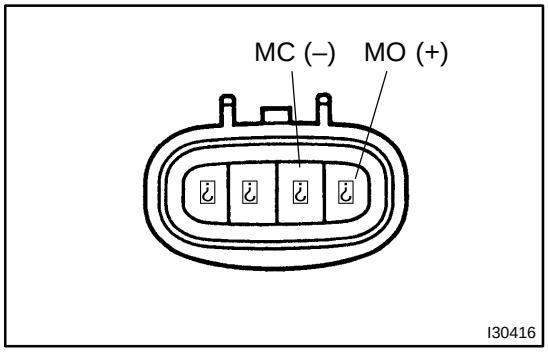
INSPECTION PROCEDURE

1	INSPECT CRUISE CONTROL ACTUATOR ASSY



(a) Turn the ignition switch to OFF.
(b) Disconnect the cruise control actuator assy connector.
(c) Measure the resistance between terminals 1 (MO) and 2 (MC) of cruise control actuator assy.

HINT:
If control plate position is fully opened or fully closed, resistance cannot be measured.

OK:
Resistance: More than 4.2 Ω

NG → **REPLACE CRUISE CONTROL ACTUATOR ASSY**

OK

2	CHECK HARNESS AND CONNECTOR(BETWEEN CRUISE CONTROL ECU ASSY AND CRUISE CONTROL ACTUATOR ASSY)

(a) Check for open and short circuit in harness and connector between cruise control ECU assy and cruise control actuator assy (actuator motor) (See page 01–30).

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

OK

CHECK AND REPLACE CRUISE CONTROL ECU ASSY (See page 01–30)