DTC	P2118	THROTTLE ACTUATOR CONTROL MOTOR CURRENT RANGE/PERFORMANCE

CIRCUIT DESCRIPTION

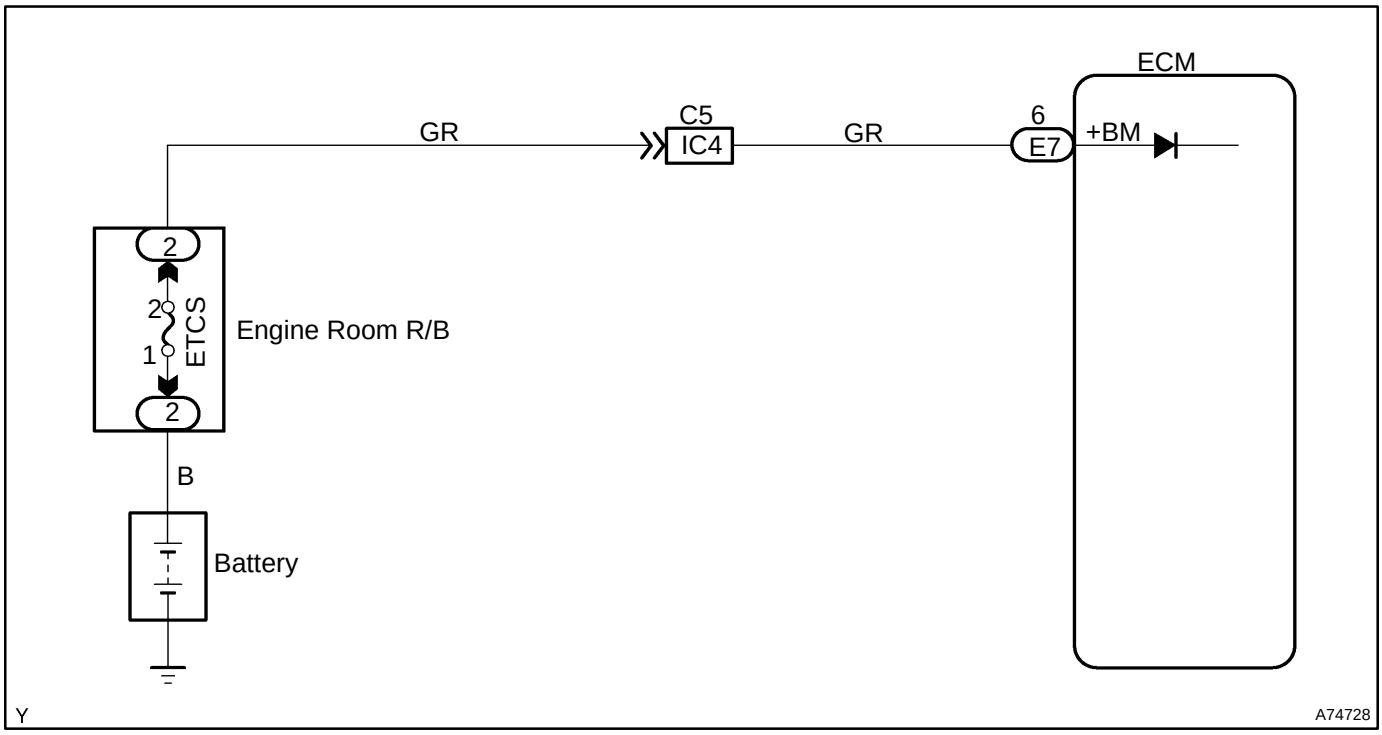
If this malfunction is detected, the ECM shuts down the power for the throttle motor, and the throttle valve is fully closed by the return spring. And the throttle valve is locked at a certain opening angle. Also, the whole electronically controlled throttle operation is cancelled until the system returns to normal and the ignition switch is turned OFF.

HINT:

This electrical throttle system is no used throttle cable.

DTC No.	DTC Detection Condition	Trouble Area
P2118	Open in ETCS power source circuit	• Open in ETCS power source circuit • ECM

WIRING DIAGRAM

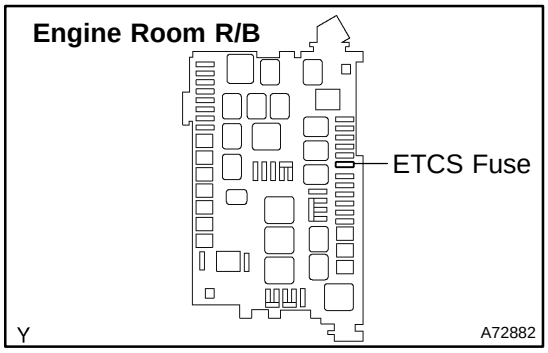


INSPECTION PROCEDURE

HINT:

Read freeze frame data using the hand−held tester or the OBD II scan tool, as freeze frame data records the engine conditions when a malfunction is detected. When troubleshooting, it is useful for determining whether the vehicle was running or stopped, the engine was warmed up or not, the air-fuel ratio was lean or rich, etc. at the time of the malfunction.

1	CHECK FUSE(ETCS FUSE)

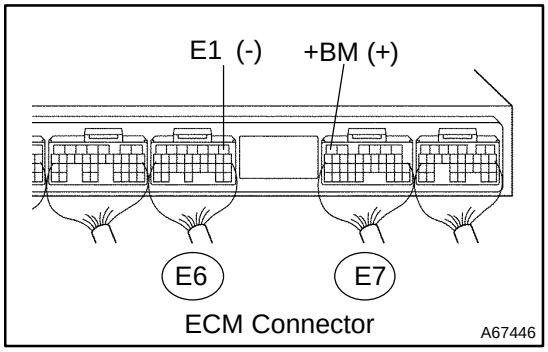


(a) Remove the ETCS fuse from the engine room R/B.
(b) Check the continuity of ETCS fuse.
Standard: Continuity

NG → **REPLACE CHECK FOR SHORT IN ALL HARNESS AND COMPONENTS CONNECTED ETCS FUSE**

OK

2	INSPECT ECM(+BM VOLTAGE)



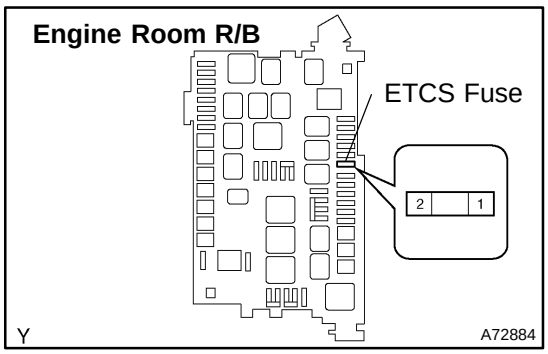
(a) Check the voltage between the terminals of the E6 and E7 ECM connectors.
Standard:

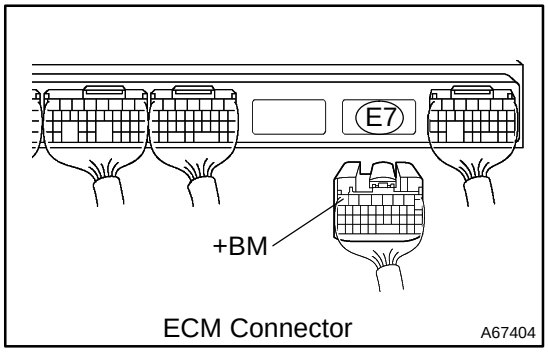
Symbols (Terminal No.)	Specified condition
+BM (E7-6) ⇔ E1 (E6-1)	9 - 14 V

OK → **CHECK AND REPLACE ECM (See page 01-35)**

NG

3	**CHECK HARNESS AND CONNECTOR(ECM - ETCS FUSE, ETCS FUSE - BATTERY)**





(a) Check the harness and connector between the ETCS fuse and ECM.
   (1) Remove the ETCS fuse from the engine room R/B.
   (2) Disconnect the E7 ECM connector.
   (3) Check the continuity between the wire harness side connectors.

Standard (Check for open):

Symbols (Terminal No.)	Specified condition
ETCS fuse (2) ⇔ +BM (E7-6)	Continuity

Standard (Check for short):

Symbols (Terminal No.)	Specified condition
ETCS fuse (2) or +BM (E7-6) ⇔ Body ground	No continuity

(b) Check the harness and connector between the ETCS fuse and battery.
   (1) Remove the ETCS fuse from the engine room R/B.
   (2) Disconnect the battery positive terminal.
   (3) Check the continuity between the wire harness side connectors.

Standard (Check for open):

Symbols (Terminal No.)	Specified condition
Battery positive terminal ⇔ ETCS fuse (1)	Continuity

Standard (Check for short):

Symbols (Terminal No.)	Specified condition
Battery positive terminal or ETCS fuse (1) ⇔ Body ground	No continuity

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

OK

CHECK AND REPLACE ENGINE ROOM RELAY BLOCK