

DTC**P0607****Input Signal Circuit Malfunction****DESCRIPTION**

This DTC indicates the internal abnormalities of the ECM.

DTC No.	DTC Detection condition	Trouble Area
P0607	The ECM has a supervisory CPU and a control ECU inside. When each input STP signal is different for 0.15 seconds or more, this trouble code is output. This trouble code is output after 0.4 seconds has passed from the time the cruise cancel input signal (STP input) is input into the ECM.	ECM

HINT:

When a trouble code is detected, fail-safe continues until the ignition switch is turned off.

1**REPLACE ECM****NEXT****END**

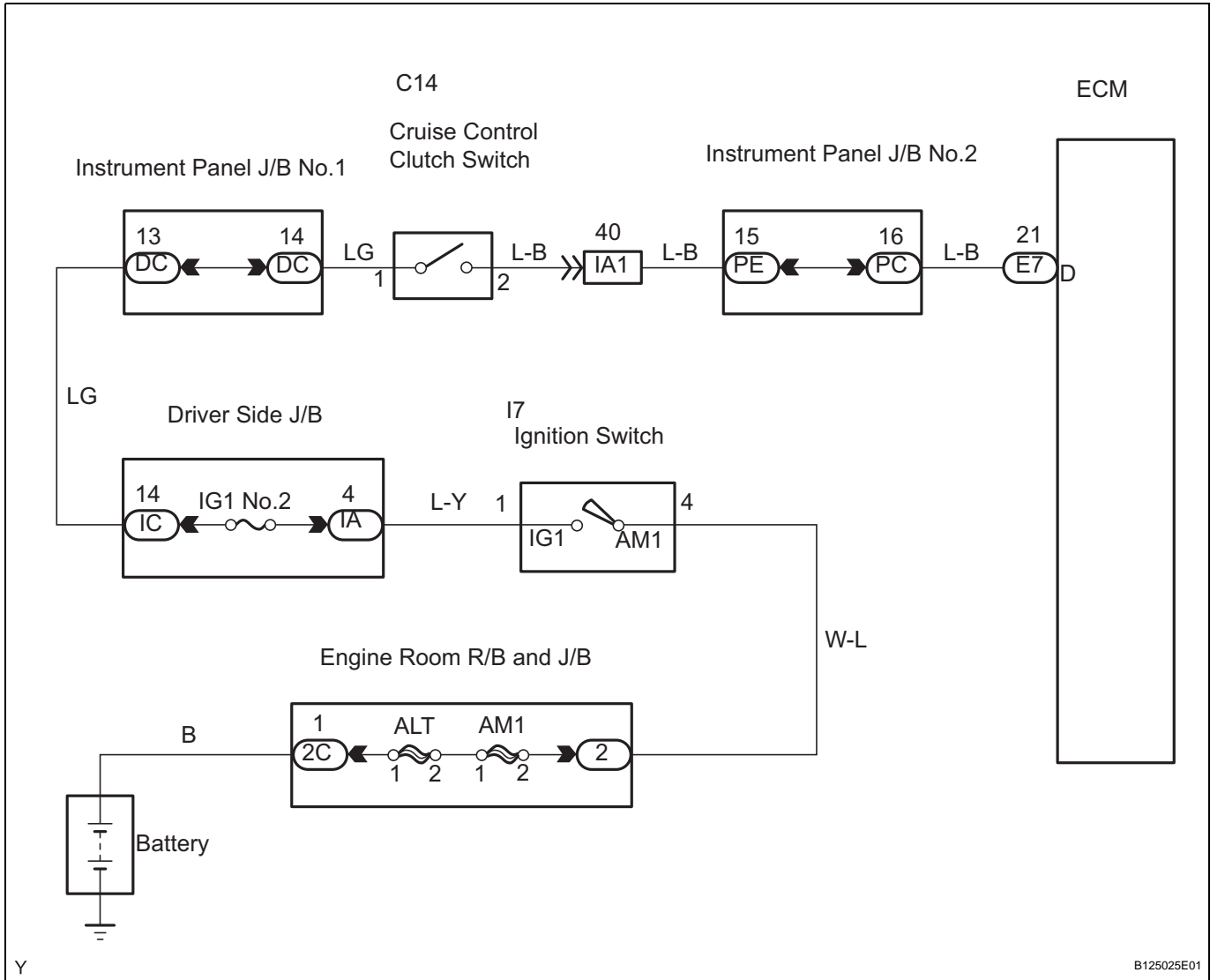
Clutch Switch Circuit

DESCRIPTION

Clutch switch circuit inspection is necessary for M/T vehicles.

When the clutch pedal is released, the ECM receives the positive (+) battery voltage through the IG1 No.2 fuse and ignition switch. While the clutch pedal is depressed, the clutch switch assembly sends a signal to terminal D of the ECM. The ECM cancels cruise control when terminal D receives the signal (voltage of below 1 V).

WIRING DIAGRAM

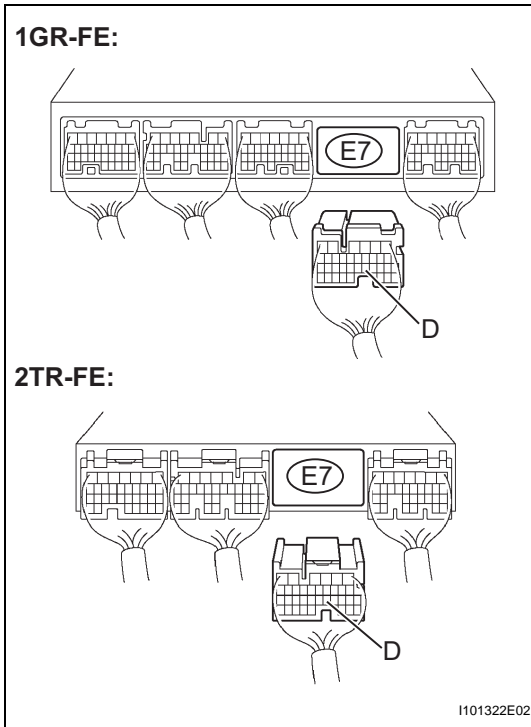


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1 CHECK HARNESS AND CONNECTOR (ECM - BATTERY)



- (a) Turn the ignition switch OFF.
- (b) Disconnect the E7 ECM connector.
- (c) Turn the ignition switch to the ON position.
- (d) Measure the voltage according to the value(s) in the table below.

Standard Voltage

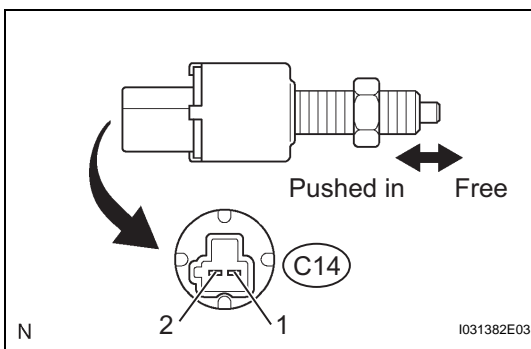
Tester connection	Clutch Pedal condition	Specification
D(E7-21) - Body ground	Depressed	Below 1 V
D(E7-21) - Body ground	Released	10 to 14 V

- (e) Reconnect the ECM connector.

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

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2 INSPECT CLUTCH SWITCH ASSEMBLY



- (a) Turn the ignition switch off.
- (b) Disconnect the clutch switch C14 connector.
- (c) Measure the resistance according to the value(s) in the table below.

Standard Resistance

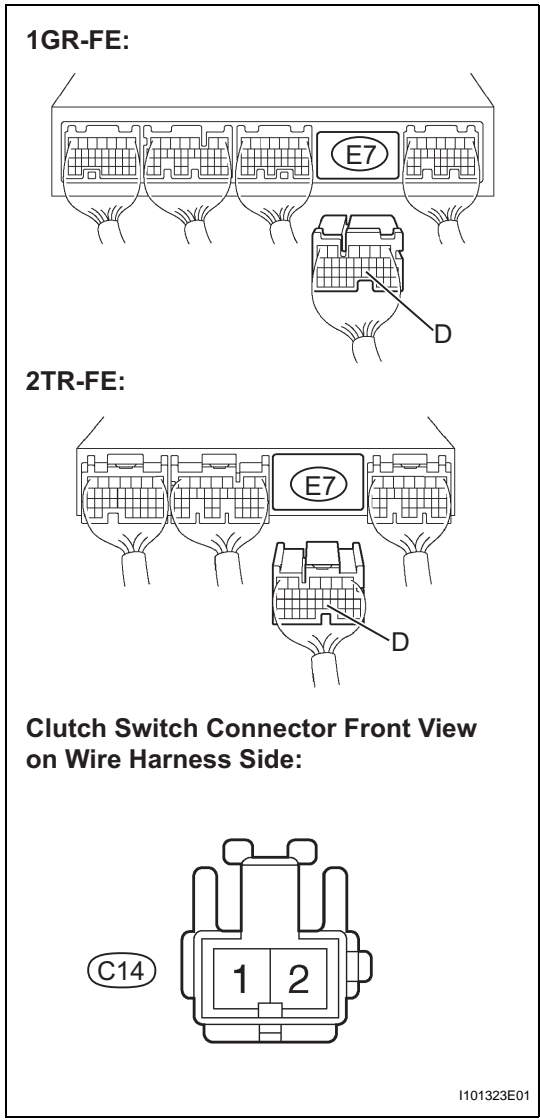
Tester connection	Clutch Pedal condition	Specification
C14-1 - C14-2	Switch pin free (Clutch pedal depressed)	10 kΩ or higher
C14-1 - C14-2	Switch pin pushed in (Clutch pedal released)	Below 1 Ω

- (d) Reconnect the clutch switch connector.

NG → **REPLACE CLUTCH SWITCH ASSEMBLY**

OK

3 CHECK HARNESS AND CONNECTOR (CLUTCH SWITCH ASSEMBLY - BODY GROUND)



- (a) Disconnect the E7 ECM connector.
- (b) Disconnect the C14 clutch switch connector.
- (c) Measure the resistance according to the value(s) in the table below.

Standard Resistance

Tester connection	Clutch Pedal condition	Specification
C14-2 - Body ground	Always	10 kΩ or higher
C14-2 - D (E7-21)	Always	Below 1 Ω

- (d) Reconnect the clutch switch connector.
- (e) Reconnect the ECM connector.

NG **REPAIR OR REPLACE HARNESS OR CONNECTOR (CLUTCH SWITCH ASSEMBLY - ECM)**

OK

CHECK AND REPAIR HARNESS OR CONNECTOR (CLUTCH SWITCH ASSEMBLY - BATTERY)