

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. <ul style="list-style-type: none"> • 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.

INSPECTION PROCEDURE**1****REPLACE ECM****NEXT****END****CC**

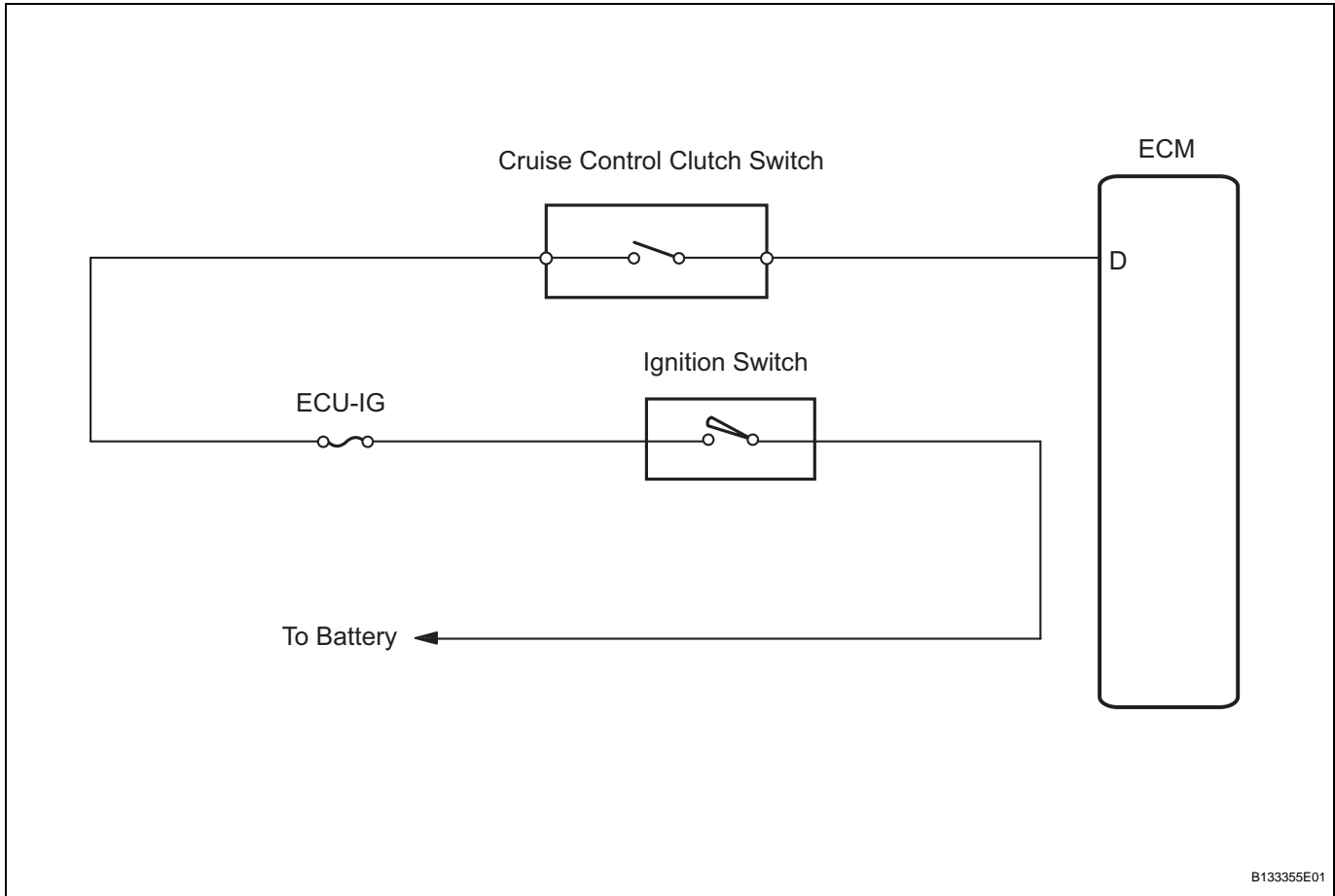
Clutch Switch Circuit

DESCRIPTION

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

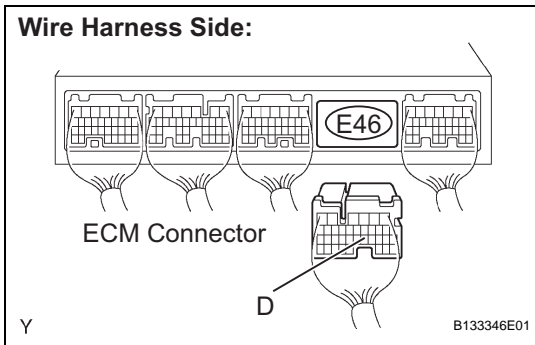
When the clutch pedal is released, the ECM receives the positive (+) battery voltage through the ECU-IG fuse and ignition switch. While the clutch pedal is depressed, the clutch switch assembly sends a signal to terminal D of the ECM. The ECM cancels cruise control when terminal D receives the signal (voltage of below 1 V).

WIRING DIAGRAM



INSPECTION PROCEDURE

1 CHECK HARNESS AND CONNECTOR (ECM - BATTERY)



- (a) Disconnect the E46 ECM connector.
- (b) Turn the ignition switch to the ON position.
- (c) Measure the voltage.

Standard voltage

Tester Connection	Clutch Pedal Condition	Specified Condition
D(E46-21) - Body ground	Depressed	Below 1 V
D(E46-21) - Body ground	Released	11 to 14 V

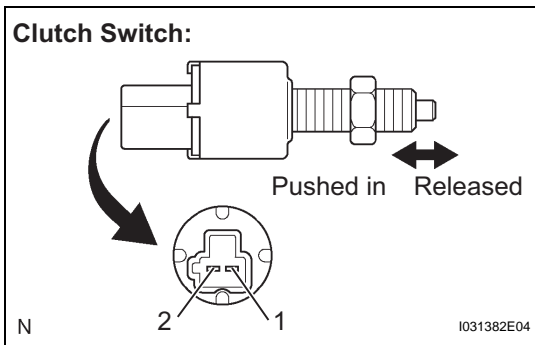
- (d) Reconnect the ECM connector.

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

NG

CC

2 INSPECT CLUTCH SWITCH ASSEMBLY



- (a) Disconnect the clutch switch connector.
- (b) Measure the resistance.

Standard resistance

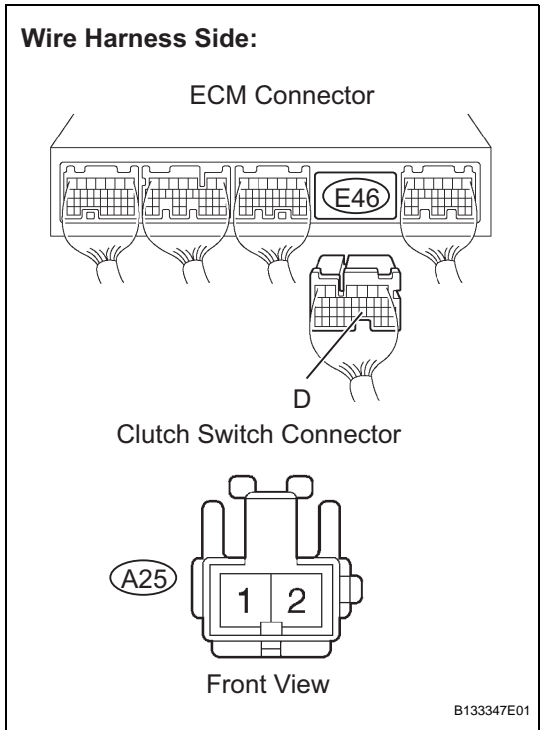
Tester Connection	Clutch Pedal Condition	Specified Condition
1 - 2	Switch pin free (Clutch pedal depressed)	10 kΩ or higher
1 - 2	Switch pin pushed in (Clutch pedal released)	Below 1 Ω

- (c) Reconnect the clutch switch connector.

NG → **REPLACE CLUTCH SWITCH ASSEMBLY**

OK

3 CHECK HARNESS AND CONNECTOR (CLUTCH SWITCH ASSEMBLY - ECM)



- (a) Disconnect the E46 ECM connector.
- (b) Disconnect the A25 clutch switch connector.
- (c) Measure the resistance.

Standard resistance

Tester Connection	Specified Condition
A25-2 or D (E46-21) - Body ground	10 kΩ or higher
A25-2 - D (E46-21)	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

REPAIR OR REPLACE HARNESS OR CONNECTOR (CLUTCH SWITCH ASSEMBLY - BATTERY)

CC