DESCRIPTION
This DTC indicates the internal abnormalities of the ECM.

<table>
<thead>
<tr>
<th>DTC No.</th>
<th>DTC Detection condition</th>
<th>Trouble Area</th>
</tr>
</thead>
</table>
| 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.

INSPECTION PROCEDURE

1. REPLACE ECM

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 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**

![Cruise Control Clutch Switch Diagram](image-url)
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

<table>
<thead>
<tr>
<th>Tester Connection</th>
<th>Clutch Pedal Condition</th>
<th>Specified Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>D(E46-21) - Body ground</td>
<td>Depressed</td>
<td>Below 1 V</td>
</tr>
<tr>
<td>D(E46-21) - Body ground</td>
<td>Released</td>
<td>11 to 14 V</td>
</tr>
</tbody>
</table>

(d) Reconnect the ECM connector.

NG

OK > PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE

2 INSPECT CLUTCH SWITCH ASSEMBLY

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

Standard resistance

<table>
<thead>
<tr>
<th>Tester Connection</th>
<th>Clutch Pedal Condition</th>
<th>Specified Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 - 2</td>
<td>Switch pin free (Clutch pedal depressed)</td>
<td>10 kΩ or higher</td>
</tr>
<tr>
<td>1 - 2</td>
<td>Switch pin pushed in (Clutch pedal released)</td>
<td>Below 1 Ω</td>
</tr>
</tbody>
</table>

(c) Reconnect the clutch switch connector.

NG > REPLACE CLUTCH SWITCH ASSEMBLY
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**

<table>
<thead>
<tr>
<th>Tester Connection</th>
<th>Specified Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>A25-2 or D (E46-21) - Body ground</td>
<td>10 kΩ or higher</td>
</tr>
<tr>
<td>A25-2 - D (E46-21)</td>
<td>Below 1 Ω</td>
</tr>
</tbody>
</table>

(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)**