



CODE 41

ECM SERIAL DATA CIRCUIT (LOSS OF COMMUNICATIONS)

Circuit Description:

The Serial Data Circuit is an asynchronous serial data link operating at 8192 bits per second in a master/slave configuration, with the CCM acting as master.

Code 41 will set if the ECM does not respond to CCM polls for more than 600 milliseconds. The CCM polls the ECM at 200 millisecond intervals; therefore, this code will set if the ECM does not respond for three CCM polls.

Test Description: Numbers below refer to circled numbers on the diagnostic chart.

1. This test determines if the CCM is having a problem communicating with the ECM.
2. This test checks for an open between Serial Data 1 of the CCM and ECM serial data line 1.
3. This test checks for an open between Serial Data 2 of the CCM and ECM serial data line 1.
4. This test checks for a short to ground in CKT 800.
5. This test checks for a short to battery in CKT 800.
6. This test repeats Tests 2 through 5 using ECM serial data line 2 rather than line 1.

Diagnostic Aids:

A short circuit on the serial data line will take the whole link down; an open circuit will take only those devices which become open-circuited.

A serial data fault may also cause a no-start condition, loss of trip computer, loss of English/Metric display control on the C68 Electronic Instrument Cluster head, and loss of the "Check Gauges" indicator.

If this fault is present, the C68 Electronic Instrument Cluster head "OFF" LED will flash.