

CODE 43

ELECTRONIC SPARK CONTROL (ESC)

5.7L "Y" SERIES FUEL INJECTION (PORT)

Code 42 means the ECM has been low voltage at CKT 485 terminal B7 for longer than 4 seconds with the engine running.

The voltage drops at terminal B7 when the ESC module shuts off because it receives a knock signal.

This system also performs a functional check once per start up to check the ESC system. To perform this test the ECM will advance the spark when coolant is above 90°C and at W.O.T. The ECM then checks the signal at B7 to see if a knock is detected. The functional check is performed once per start up and if knock is detected when coolant is below 90°C (194°F) the test has passed. If the functional check fails, the "Service Engine Soon" light will remain on until ignition is turned off or until a knock signal is detected.

- 1. Checks to see if ECM recognizes a problem.
- 2. This will determine if the system is functioning at this time.
- 3. The ESC module supplies voltage to the ECM. It should always be over 6 volts unless the system is sensing engine detonation.
- 4. Checks for intermittent ESC operation. If the voltage is now over 6 volts, it is a faulty ESC terminal "C" connection or ESC module.
- 5. Checks for grounded ECM.
- 6. Checks for open ignition circuit.

