

CODE 34

MANIFOLD ABSOLUTE PRESSURE (MAP) SENSOR CIRCUIT (SIGNAL VOLTAGE LOW - HIGH VACUUM) 2.8L "P" SERIES (PORT)

Circuit Description:

The manifold absolute pressure sensor (MAP) responds to changes in manifold pressure (vacuum). The ECM receives this information as a signal voltage that will vary from about 1-1.5 volts at idle to 4-4.5 volts at wide open throttle.

If the MAP sensor fails, the ECM will substitute a fixed MAP value and use the throttle position sensor (TPS) to control fuel delivery.

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

- Code 34 will set when signal voltage is too low (kPa less than 13) and ignition is turned "ON".
 - Engine running greater than 1200 rpm and throttle open greater than 25%
- 2. If the ECM recognizes the high MAP signal, the ECM and wiring are OK.
- 3. The "Scan" tool may not display 12 volts. The important thing is that the ECM recognizes the voltage as more than 4 volts, indicating that the ECM and CKT 432 are OK.

Diagnostic Aids:

An intermittent open in CKTs 432 or 416 will result in a Code 34.

Ignition "ON" engine "OFF", voltages should be within the values shown in the table on the chart.

Also CHART C-1D can be used to test MAP sensor.

Refer to "Intermittents" in Section "B".

