

Checking Fault Codes for VT/X V6 & 5.0 Litre V8 Engines

How to test for fault codes

Firstly locate the diagnosis connector under the steering column. You will now need to bridge terminals 5 (earth) and 6 (diagnosis request) using something like a paper clip, piece of solder, etc. Then switch the ignition to the ON position. Read the codes as follows:

- 1 Each code is represented by two groups of flashes separated by a 1.2 second pause.
- 2 The first group of flashes represents tens, the second group represents units. For example, four flashes, followed 1.2 seconds later by eight flashes, would indicate code 48.
- 3 Each code will be displayed 3 times.
- 4 If more than one code is stored in the memory, each code will be separated by a 3.2 second pause.
- 5 The sequence will be repeated as long as the terminals of the diagnosis connector are bridged.
- 6 Code 12 should be displayed three times at the start of the procedure to indicate that the self diagnosis system is operating.
- 7 If there are fault codes in the memory, code 12 will also be displayed at the completion of the code display.
- 8 If there are no fault codes in the memory, code 12 will be continually displayed.
- 9 When finished remember to unbridge the connector so as to log any further codes.

Clearing codes

To clear the stored codes once the problem is resolved, simply disconnect both battery terminals for at least 10 seconds.

Fault Codes

- 12 Satisfactory operation
- 13 RH Oxygen sensor (no signal)
- 14 Coolant temperature sensor (voltage low)
- 15 Coolant temperature sensor (voltage high)
- 16 Coolant temperature sensor (voltage unstable)
- 17 ECU failure (coolant sensor circuit)
- 18 EGR flow fault
- 19 Throttle position sensor (sticking open)
- 21 Throttle position sensor (voltage high)
- 22 Throttle position sensor (voltage low)
- 23 Air temperature sensor (voltage high)
- 24 Vehicle speed sensor (no signal)
- 25 Air temperature sensor (voltage low)
- 26 Air temperature sensor (voltage unstable)
- 29 EGR position sensor fault
- 31 Theft deterrent signal missing
- 32 Air flow sensor (voltage out of range)
- 35 Idle speed error (IAC valve unable to control idle speed)
- 36 Vacuum leak
- 41 Electronic spark timing (EST) circuit
- 42 Electronic spark timing (EST) bypass circuit
- 43 Knock sensors
- 44 RH oxygen sensor (lean signal)
- 45 RH oxygen sensor (rich signal)
- 46 Crank angle reference signal (engine will not start)
- 47 Crank angle reference signal (no signal)
- 48 Cam angle sensor (no signal)
- 49 Cam angle or crank angle sensor (signal intermittent)
- 51 Mem-Cal error
- 54 ECU power supply circuit (voltage variation, terminal A4)
- 55 Faulty ECU
- 56 Lean condition under load (supercharged engine)
- 57 Injector power supply monitor (voltage variation, terminal B12)
- 63 LH oxygen sensor (no signal)
- 64 LH oxygen sensor (lean signal)
- 65 LH oxygen sensor (rich signal)
- 66 3-2 Shift Control Solenoid Circuit Fault
- 67 Torque Converter Clutch On-Off Solenoid Control Circuit
- 69 Torque Converter Clutch Stuck On

- 72 Vehicle Speed Sensor Intermittent While Driving
- 73 Pressure Control Solenoid Current
- 75 System Voltage Low
- 76 Air/Fuel ratio (variation between left and right banks)
- 78 Air/Fuel ratio (variation between left and right banks)
- 91 Quad driver surface module fault
- 92 Low speed fan fault
- 93 Knock sensors
- 94 Vehicle speed sensor, M/T (no signal)
- 95 Traction control signal (out of range)
- 96 A/C pressure sensor fault
- 97 Canister purge solenoid