

# 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

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