

Description of fault codes

The fault codes are listed in order of priority. Where more than one fault exists, clearing the first fault code will permit the next code to be displayed.

NOTE: Fault code 02 will show if the ECU has just been reconnected. Switch on ignition to clear the display.

Clearing fault code display

It is necessary to clear the code displayed when the fault has been rectified, and to access any further fault codes that may exist. Clear the fault code displayed using the following procedure:

1. Switch On ignition.
2. Disconnect serial link mating plug, wait 5 seconds, reconnect.
3. Switch OFF ignition, wait for main relay to drop out.
4. Switch ON ignition. The display should now reset. If no other faults exist, and the original fault has been rectified, the display will be blank.
5. If multiple faults exist repeat Steps 1. to 4. as each fault is cleared the code will change, until all faults are cleared. The display will now be blank.

Code 29 - ECU MEMORY CHECK - If this fault is detected, all other faults are unreliable and must therefore be ignored.

Proceed as follows:

1. Leave battery connected
2. Switch ignition off
3. Wait for approximately 5 seconds
4. Disconnect ECU plug
5. Re-connect ECU plug
6. Switch ignition on and check display unit.

NOTE: If fault code 29 is detected again, substitute ECU and restart test sequence.

Code 44 - LAMBDA SENSOR A - left bank

Code 45 - LAMBDA SENSOR B - right bank

If one of these fault codes is displayed check the wiring to that particular lambda sensor.

If both codes are displayed, the voltage supply to the heater coils of the sensors must be checked. Refer to Test 26, continuity test procedure.

Code 25 - IGNITION MISFIRE - This code indicates that an ignition system misfire has been detected. Codes 40 or 50 indicate on which bank the misfire has occurred.

Code 40 - MISFIRE BANK A - left bank
Code 50 - MISFIRE BANK B - right bank

If both fault codes are displayed check the following components common to both banks:

Distributor cap
Rotor arm
Coil
Electrical connections
Pick-up (air gap)
Amplifier
Injectors - if code 34 or 36 displayed.

If either fault code 40 or 50 is displayed check components applicable to the particular bank that the misfire has occurred on:

Spark plugs
HT leads
Distributor cap
Injectors - if code 34 bank A or 36 bank B displayed.

Code 12 - AIRFLOW METER - Refer to Test 19, continuity test procedure.

Code 21 - FUEL TUNE SELECT - Identifies that the tune select resistor is open circuit - Refer to tune select resistor test.

Code 34 - INJECTOR BANK A - The display will indicate if the injector/s are causing the engine to run rich or lean.

If the bank is running rich, check for:-
- faulty injector wiring and connectors
- stuck open injectors

If the bank is running lean, check for:-
- faulty injector wiring and connectors
- blocked injectors

Code 36 - INJECTOR BANK B - As code 34 except relevant to bank A injectors.

Code 14 - COOLANT THERMISTOR - Refer to Test 14, continuity test procedure.

Code 17 - THROTTLE POTENTIOMETER - Refer to Test 17, continuity test procedure.

Code 18 - THROTTLE POTENTIOMETER input high/AIRFLOW METER - low. - Refer to Tests 17, 18 and 19 of the continuity test procedure

Code 19 - THROTTLE POTENTIOMETER input low/AIRFLOW METER - high. - Refer to Tests 17, 18 and 19 of the continuity test procedure

Code 88 - PURGE VALVE LEAK - Refer to Test 9 and 10 of the continuity test procedure.

Code 28 - AIR LEAK - Check for air leaks in the following areas.

Hose, air flow meter to plenum
Breather system hoses to plenum
Brake servo hose
Vacuum reservoir hose (fresh air solenoid)
Distributor vacuum advance
Hose, purge valve to plenum
Injector seals
Joint - By pass air valve to plenum
- Plenum chamber to ram housing
- Ram housing to inlet manifold
- Inlet manifold to cylinder head
By pass air valve hose

Code 23 - FUEL SUPPLY - Check fuel system pressure, Test 20 of the continuity test procedure.

Code 48 - STEPPER MOTOR - Check base idle speed - see setting procedure. - Refer to Tests 15 and 16 of the continuity test procedure. Check road speed sensor - Refer to Test 25 of the continuity test procedure.

Code 68 - ROAD SPEED SENSOR - Refer to Test 25 of the continuity test procedure.

Code 69 - GEARSWITCH - Refer to Test 24 of the continuity test procedure.

Code 59 - GROUP FAULTS 23/28 - This indicates that a fault has been registered that is caused by the fuel supply or an air leak but the exact fault cannot be identified. Check all items outlined under code 23 and 28.

Code 15 - FUEL THERMISTOR - Refer to Test 13 of the continuity test procedure.