

**DTC P0308****Catalyst damaging misfire cyl 8 Drive cycle C:Signal out of range - above maximum.**

Possible causes by suggested order of priority:

- HT problem cylinder 8.
- Ignition coil problem cylinders 5 and 8.
- Ignition coil problem cylinders 2,3,5,8.
- Faulty fuel injector cylinder 8.
- Cylinder 8 combustion efficiency problem.

**HT Problem Cylinder 8.**

CHECK THE FOLLOWING:

- Misfire counts high for cylinder 8.
- Misfire counts close to normal for cylinder 5. POSSIBLE FAULTS
- Spark plug problem cylinder 8.
- HT lead problem cylinder 8. DIAGNOSTIC HINTS
- Problems with the ignition coil or open circuit HT would probably give elevated misfire counts on cylinder 5 also.

**Ignition Coil Problem Cylinders 5 and 8.**

CHECK THE FOLLOWING:

- Misfire counts high for cylinder 8.
- Misfire counts also raised for cylinder 5. POSSIBLE FAULTS
- Spark plug problem cylinder 5 or 8 - No spark.
- Open circuit HT lead problem cylinder 5 or 8.
- Ignition coil problem - coil pack 1 (cylinders 2,3,5,8). DIAGNOSTIC HINTS
- Problems with the ignition coil or open circuit HT also show elevated misfire counts on cylinder 5 due to the wasted spark ignition system.

**Ignition Coil Problem Cylinders 2,3,5,8.**

CHECK THE FOLLOWING:

- Misfire counts high for cylinder 8.
- Misfire counts also raised for cylinders 2,3,5. POSSIBLE FAULTS
- Problem with 12v supply to coil pack 1 (cylinders 2,3,5,8).
- Coil pack 1 faulty. DIAGNOSTIC HINTS
- Problems with the ignition coil pack also show elevated misfire counts on cylinders 2,3,5 as sparks for these cylinders are also driven from this coil pack.

**Faulty Fuel Injector Cylinder 8.**

CHECK THE FOLLOWING:

- Misfire counts high for cylinder 8.
- Misfire counts close to normal for cylinder 5. POSSIBLE FAULTS
- Fuel injector fault cylinder 8. DIAGNOSTIC HINTS
- Problems with lack of fuel on cylinder 8 can cause a misfire fault to be flagged.
- Fuelling adaptations on bank B may also be affected.

**Cylinder 8 Combustion Efficiency Problem.**

**CHECK THE FOLLOWING:**

- Cylinder 8 compression.
- Cylinder 8 leakage.
- Cylinder 8 valve timing (CAM). POSSIBLE FAULTS
- Valve, Piston or CAM problems causing low efficiency on cylinder 8. DIAGNOSTIC HINTS
- With low efficiency problems, disconnecting injector 8 will cause little or no effect on idle air flow