MAGNAFLOW

CATALYTIC CONVERTER FAILURE ANALYSIS | P0420 & P0430 CODES

CAUSES OF CATALYTIC CONVERTER FAILURE

The key to any good repair is determining the ROOT cause of the problem.

COMMON COMPONENT FAILURES

- Defective upstream O2 sensor
- Fuel Injectors (clogged or leaking)
- Defective Temperature sensors (ECT or IAT)
- Defective Mass Air Flow sensor (MAF)
- Defective Manifold Absolute Pressure Sensor (MAP)
- Restriction in Intake (Filter)
- Restriction in EGR system

OTHER AREAS OF CONCERN

- Leaking Exhaust (pre-cat) or Intake
- Signs of excessive carbon build-up
  - *Intake, Exhaust or Combustion Chamber*
- Substrate Contamination
  - *Carbon (Running Rich)*
  - *Oil (bad rings or valve seals)*
  - *Sulfur (high sulfur content in fuel)*
  - *Coolant (Bad head gasket or leaking intake plenum)*
- Misfire (Ignition, Fuel or Valvetrain)

ACTION ITEMS

- Check converter for signs of overheating (blueing) or lack of light-off (dull silver color)
- Check converter housing for signs of damage
- Record and diagnose all other codes (current, history and pending)
- Check for TSB's (possible PCM re-flash)
- Monitor Fuel Trims (reset and retest if necessary)
- Calculate Lambda (A/F ratio)
- Check Mode 6 data for verification of failure and any other PID's close to failure.
- Correctly break-in new converter (Pop the Mat)
- Check for leaks after installation and/or repairs

For more information please contact our Tech Support Team at 800-990-0905 or moreinfo@magnaflow.com