



**POWERTRAIN CONTROL SYSTEM
ELECTRONICS DIAGNOSTIC GUIDE**

2002 F-Series/Excursion and Econoline

| Fault Code | Circuit Index | Condition Description | Probable Causes |
|------------|---------------|---|--|
| 1249 * | WG | Waste-gate failure steady state | GND short, plugged hose/port, solenoid, actuator |
| 1260 | EPATS | Anti theft module signal detected | Anti theft condition detected, EPATS module |
| 1261-1268 | INJ | High to low side short cyl#1 - #8 | Short circuit, shorted injector, failed IDM |
| 1271-1278 | INJ | High to low side open cyl#1 - #8 | Open circuit, open injector, failed IDM |
| 1280 * | ICP | ICP circuit out of range low | Open/grounded circuit, ICP sensor, PCM |
| 1281 * | ICP | ICP circuit out of range high | Circuit shorted to power, ICP sensor, PCM |
| 1282 * | IPR | Excessive ICP pressure | Faulty IPR regulator (sticking), circuit short to ground |
| 1283 | TEST | IPR circuit failure | Open/short circuit, loose connection |
| 1284 | TEST | ICP failure - aborts KOER test | See codes 1280, 1281, 1282, 1283, 1211 |
| 1291 | INJ | High side short to grd or B+, bank #1 (right) | Shorted circuit, faulty IDM |
| 1292 | INJ | High side short to grd or B+, bank #2 (left) | Shorted circuit, faulty IDM |
| 1293 | INJ | High side open bank #1 (right) | Open circuit, faulty IDM |
| 1294 | INJ | High side open bank #2 (left) | Open circuit, faulty IDM |
| 1295 | INJ | Multiple faults on bank #1 (right) | Miswired connector or harness, short to ground |
| 1296 | INJ | Multiple faults on bank #2 (left) | Miswired connector or harness, short to ground |
| 1297 | INJ | High sides shorted together | Shorted wires, faulty IDM |
| 1298 | IDM | IDM failure | Internal IDM failure |
| 1316 * | IDM | Injector circuit/IDM codes detected | Injector circuit/IDM codes detected |
| 1397 | VPWR | System voltage out of self test range | Voltage too high or low for glow plug monitor test |
| 1464 | TEST | A/C demand out of self test range | A/C on during self-test, circuit shorted to power |
| 1501 | TEST | VSS out of self test range | VSS detected during self-test |
| 1502 | TEST | Invalid test - APCM functioning | APCM active while KOER test is running |
| 1531 | TEST | Invalid test - accelerator pedal movement | AP detected during self-test, switch or circuit fault. |
| 1536 | PBA | Parking brake switch circuit failure | Switch not detected during self-test, circuit, switch |
| 1636 | SS | Inductive signature chip comm error | Faulty PCM |
| 1660 | OCC | OCC signal high | High system voltage, internal PCM fault |
| 1661 | OCC | OCC signal low | Low system voltage, internal PCM fault |
| 1662 | IDM-EN | IDM_EN circuit failure | Open IDM relay, blown fuse, open/shorted circuit |
| 1663 | FDCS | FDCS circuit failure | Open/shorted circuit, faulty IDM, PCM |
| 1667 | CI | CI circuit failure | Open/shorted circuit, faulty IDM, PCM |
| 1668 | EF | PCM-IDM diagnostic communication error | Open/shorted EF or FDCS, open IDM ground |
| 1670 * | EF | EF signal not detected | Open/shorted EF circuit |
| 1690 * | WG | Waste-gate failure | WGC circuit or Solenoid, PCM |
| 1702 \$ | TRS | Digital TRS intermittent circuit malfunction | Sensor, wiring, PCM, mechanical alignment |
| 1704 | TRS | Digital TRS failed to transition state | Sensor, wiring, PCM, mechanical alignment |
| 1705 | TEST | Digital TRS out of self test range | Operator error, circuit failure, faulty sensor, PCM |
| 1711 | TEST | TFT sensor out of self test range | Trans too hot/cold, sensor or circuit fault, PCM |
| 1713 \$ | TFT | TFT stuck in-range-low below 50 deg. F | Sensor, Circuit, PCM |
| 1714 * | SS1 | Shift Solenoid 1 inductive | Circuit, Solenoid or PCM |
| 1715 * | SS2 | Shift Solenoid 2 inductive | Circuit, Solenoid or PCM |
| 1718 \$ | TFT | TFT stuck in-range-high above 250 deg. F | Sensor, Circuit, PCM |
| 1728 \$ | TCC | Transmission slip error | Solenoid failure or mechanical failure |
| 1729 \$ | 4x4L | 4x4 Low switch error | Circuit short to GND, faulty switch, PCM |
| 1744 * | TCC | Converter not functioning | Converter solenoid/hydraulic/mechanical failure |
| 1746 \$ | EPC | EPC solenoid open circuit | Open circuit, faulty solenoid, PCM |
| 1747 * | EPC | EPC solenoid short circuit | Short to GND circuit, faulty solenoid, PCM |
| 1754 | CCS | Coast clutch solenoid circuit malfunction | Circuit failure, faulty solenoid, PCM |
| 1760 \$ | EPC | EPC solenoid short intermittent | Circuit failure, faulty solenoid, PCM |
| 1780 | TEST | TCS circuit out of self test range | Switch not detected during self-test, circuit, switch |
| 1781 | 4X4L | 4X4L circuit out of self test range | Operator error, short to ground, PCM |
| 1783 \$ | TFT | Transmission overtemperature condition | Internal transmission failure, circuit failure, sensor |

(FMEM) MIL illumination occurs after 1st fault - Federal calibrations only

* (OBDII) MIL illumination occurs after 2nd consecutive fault

\$ Transmission Control Indicator Light (TCIL) flashes with fault present