



**POWERTRAIN CONTROL SYSTEM
ELECTRONICS DIAGNOSTIC GUIDE**

2001 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