



YMMS: 2011 Freightliner M2 Series - M2-106  
Engine: Cummins ISB6.7 CM2250 6 CYL  
VIN: 1FVACWDT8BDBA0266

Apr 21, 2021

License:  
Odometer:

## CODE DESCRIPTION

### CODES

- Fault Code: 1993
- PID(P), SID(S): None.
- SPN: 4795
- FMI: 31
- Light: Amber.

### CAUSE

Aftertreatment DPF not found in exhaust system.

### EFFECT

Active Aftertreatment DPF regeneration will be disabled.

### CIRCUIT DESCRIPTION

Presence of Aftertreatment DPF and its proper functioning is monitored by Engine Aftertreatment System.

### COMPONENT LOCATION

This filter can be found in exhaust system and is installed by OEM. See appropriate article for OEM truck manufacturer.

### CONDITIONS FOR RUNNING DIAGNOSTICS

Engine must be operating and exhaust flow is more than minimum level.

### CONDITIONS FOR SETTING FAULT CODES

This diagnostic monitors Aftertreatment DPF Differential Pressure Sensor. If pressure is less than minimum value and exhaust flow rate is more than minimum flow rate, fault code is set.

### ACTION TAKEN WHEN FAULT CODE IS ACTIVE

- ECM activates Amber Check Engine Light immediately after diagnostic runs and passes for 2 consecutive trips.
- Both active and stationary regeneration of DPF will be disabled.
- Closed EGR Valve.
- There will be reduction in Engine torque if Engine is operated for prolonged period with this fault active.

### CONDITIONS FOR CLEARING FAULT CODE

- For repair validation using road test, route should include both stop-and-go city driving and highway driving at steady state. Some ECM diagnostics may require vehicle to be loaded to run.
- For repair validation using a chassis dynamometer, include acceleration and deceleration events, steady state operation at highway speed and load to simulate normal driving, which will allow ECM diagnostics to run.
- Scan Tool displays fault code status, which will change to INACTIVE instantly after diagnostic runs and passes.
- ECM deactivates Amber Check Engine Light once diagnostic runs and passes.
- For OBD Engines, ECM deactivates MIL after 3 successive trips where diagnostic runs and passes.
- Use "Reset All Faults" command in Scan Tool to erase active and inactive Fault Codes, also deactivate MIL for OBD applications.

### DIAGNOSTIC TIPS

Possible causes of fault code 1993 are: Aftertreatment DPF is cracked, broken or has been removed, DPF differential tubes are broken, loose or tampered with or installed backwards or incorrectly.

**NOTE:** For Fault Code Diagnostics, see Testing.