

1 5 10-15



Service Information Bulletin

SUBJECT	DATE
SID 057 04 - PWM Driver #1 Shorted to Ground	June 2015

Additions, Revisions, or Updates

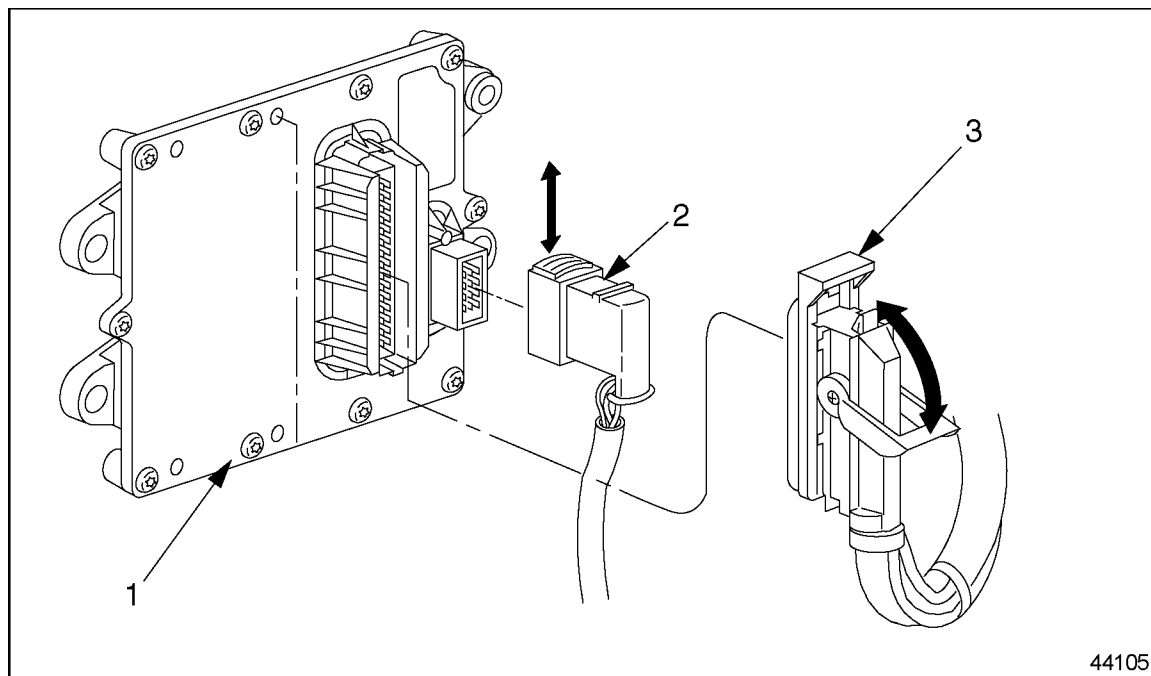
Publication Number / Title	Platform	Section Title	Change
DDC-SVC-MAN-0027	MBE Platform	SID 057 04 - PWM Driver #1 Shorted to Ground	These are new diagnostics for this fault code.



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21.2 TROUBLESHOOTING SID 57

Perform the following steps to troubleshoot SID 57. See Figure 21-2 for the Engine Electrical Connector (55-pin).



1. PLD-MR

3. Engine Electrical Connector (55-pin)

2. Vehicle Electrical Connector (16-pin)

Figure 21-2 PLD-MR and Harness Connectors

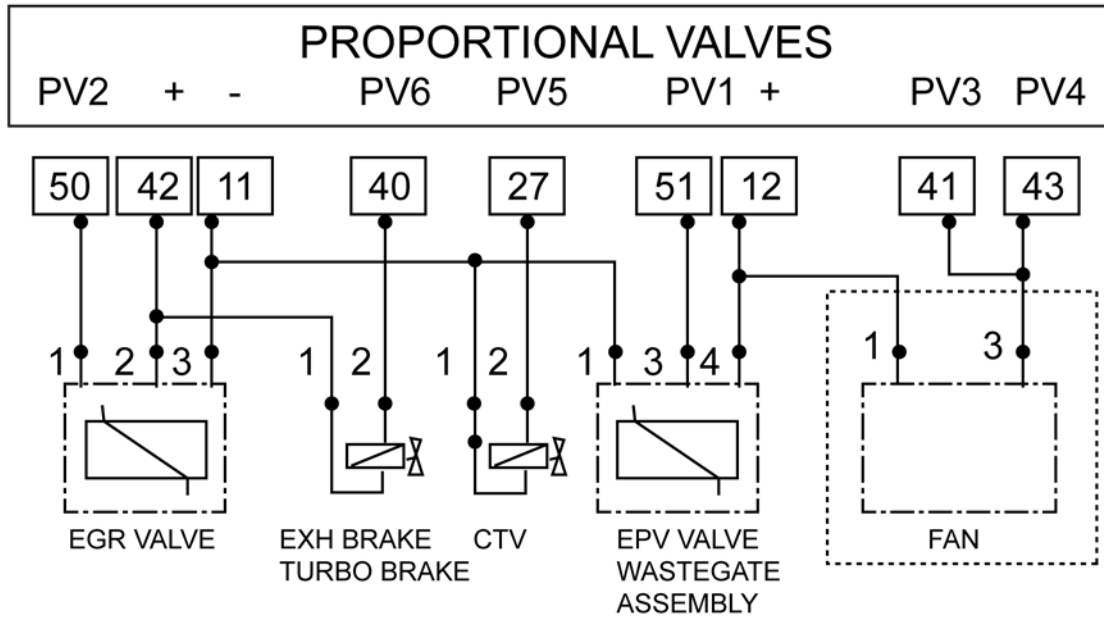
21.2.1 SID 057 04 – PWM Driver #1 Shorted to Ground

PWM Driver #1 Shorted to Ground

Possible causes:

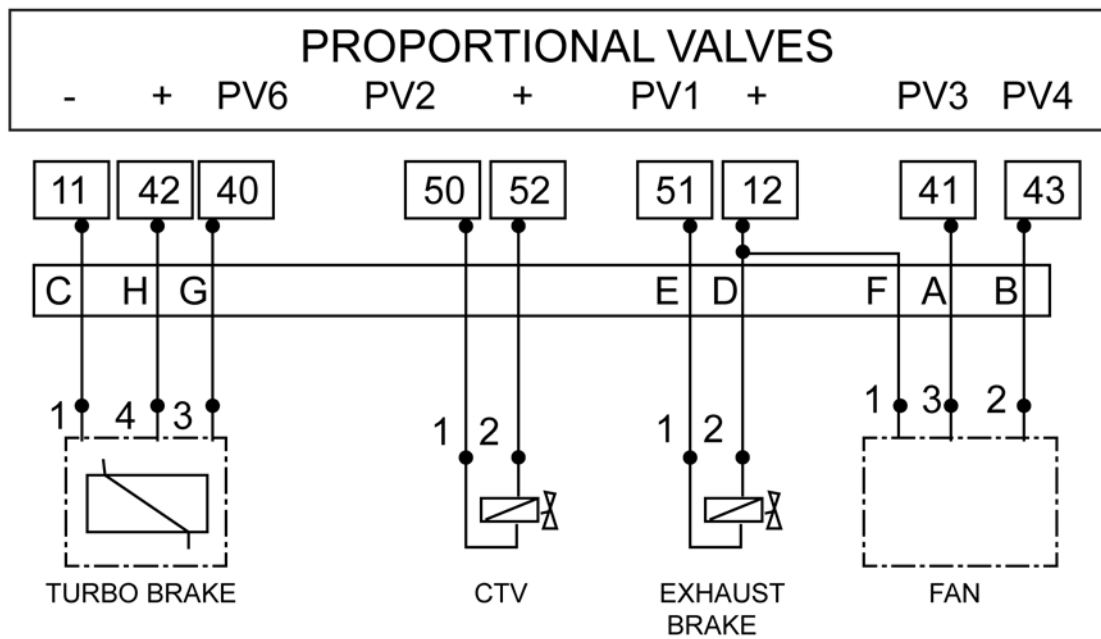
- ☐ EGR valve shorted to ground
- ☐ Constant Throttle Valve (CTV) shorted to ground
- ☐ Exhaust/turbo brake shorted to ground
- ☐ EPV valve wastegate actuator shorted to ground
- ☐ Fan solenoid shorted to ground

- PLD internally shorted to the outer case



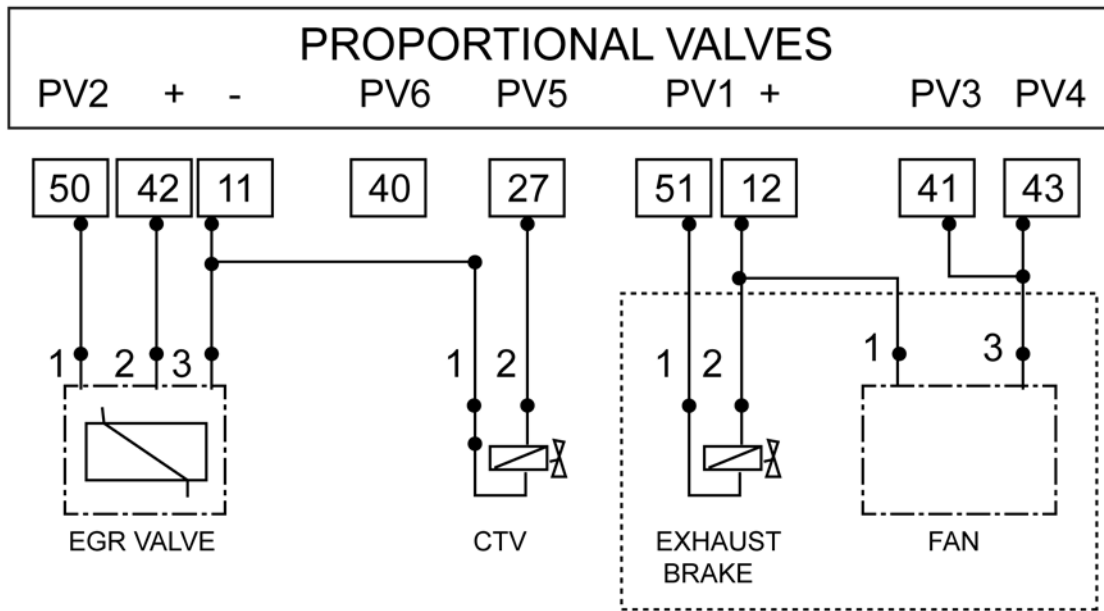
d150306

Figure 21-3 **2004 MBE 4000**



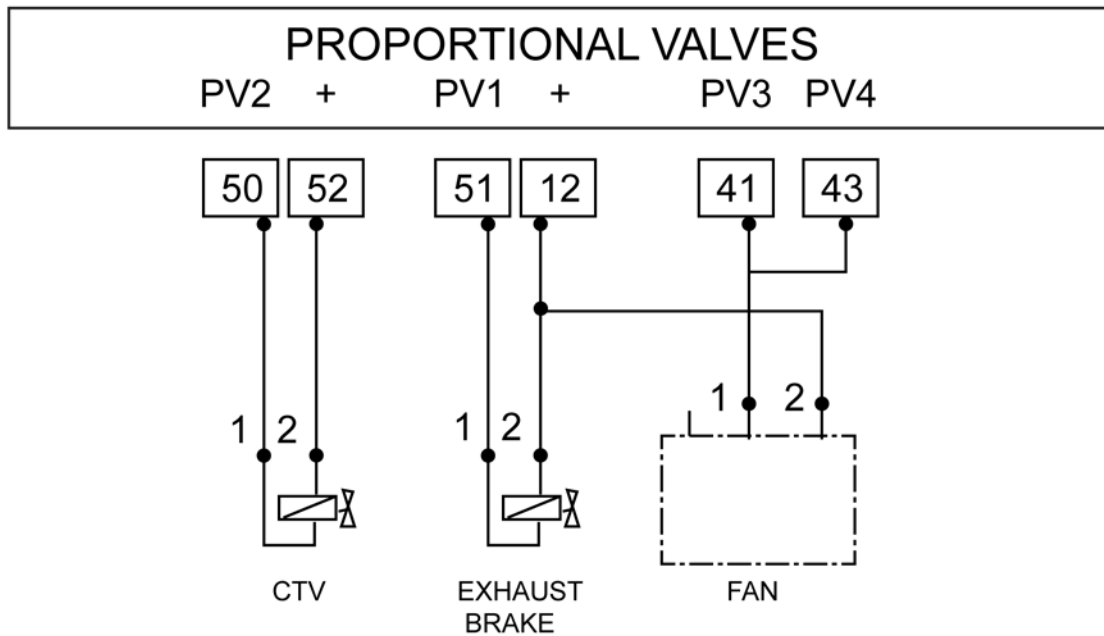
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Figure 21-4 **1998 MBE 4000**



d150305

Figure 21-5 2004 MBE 900



d150303

Figure 21-6 1998 MBE 900



WARNING:
ENGINE EXHAUST

To avoid injury from inhaling engine exhaust, always operate the engine in a well-ventilated area. Engine exhaust is toxic.

1. Disconnect the EGR valve and cycle the ignition. Does fault code 057 04 become inactive?
 - [a] Yes; replace the EGR valve.
 - [b] No; go to step 2.
2. Disconnect the Exhaust/turbo brake (if equipped) and cycle the ignition. Does fault code 057 04 become inactive?
 - [a] Yes; replace the exhaust/turbo brake actuator.
 - [b] No; go to step 3.
3. Disconnect the CTV and cycle the ignition. Does fault code 057 04 become inactive?
 - [a] Yes; replace the CTV solenoid.
 - [b] No; go to step 4.
4. Disconnect the EPV valve wastegate assembly actuator (if equipped) and cycle the ignition. Does fault code 057 04 become inactive?
 - [a] Yes; replace the EPV valve wastegate assembly actuator.
 - [b] No; go to step 5.
5. Turn the ignition OFF.
6. Disconnect the PLD 55-pin electrical connector.
7. Turn the ignition ON (Key ON, Engine OFF).
8. Does fault code 057 04 become inactive?
 - [a] Yes; repair the short to ground in the harness.
 - [b] No; replace the PLD.

21.2.2 057 05 — Open Circuit in the Engine Brake Flap Solenoid Valve and Wiring

Perform the following procedures to troubleshoot an open circuit in the engine brake flap solenoid valve and wiring.

If the engine has no exhaust brake flap, perform the following step:

1. Read Parameter 00601.
 - [a] If Parameter 00601 is “Not Active”, contact Detroit Diesel Technical Service Group.