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Service Information Bulletin

SUBJECT	DATE
SPN 2798/FMI 4-EPA10-GHG14	July 2013

Additions, Revisions, or Updates

Publication Number / Title	Platform	Section Title	Change
DDC-SVC-MAN-0084	DD Platform	SPN 2798/FMI 4-EPA10-GHG14	Added step references for both two and three-filter fuel systems. In step 12, changed to "Measure the resistance between pin 1 on the engine harness side of the rear fuel injector harness 14-pin connector and ground."



13400 Outer Drive, West, Detroit, Michigan 48239-4001
 Telephone: 313-592-5000
www.demanddetroit.com

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This diagnostic is typically Injector Needle Control Valve Cylinder 4, 5, 6 Shorted to Ground.

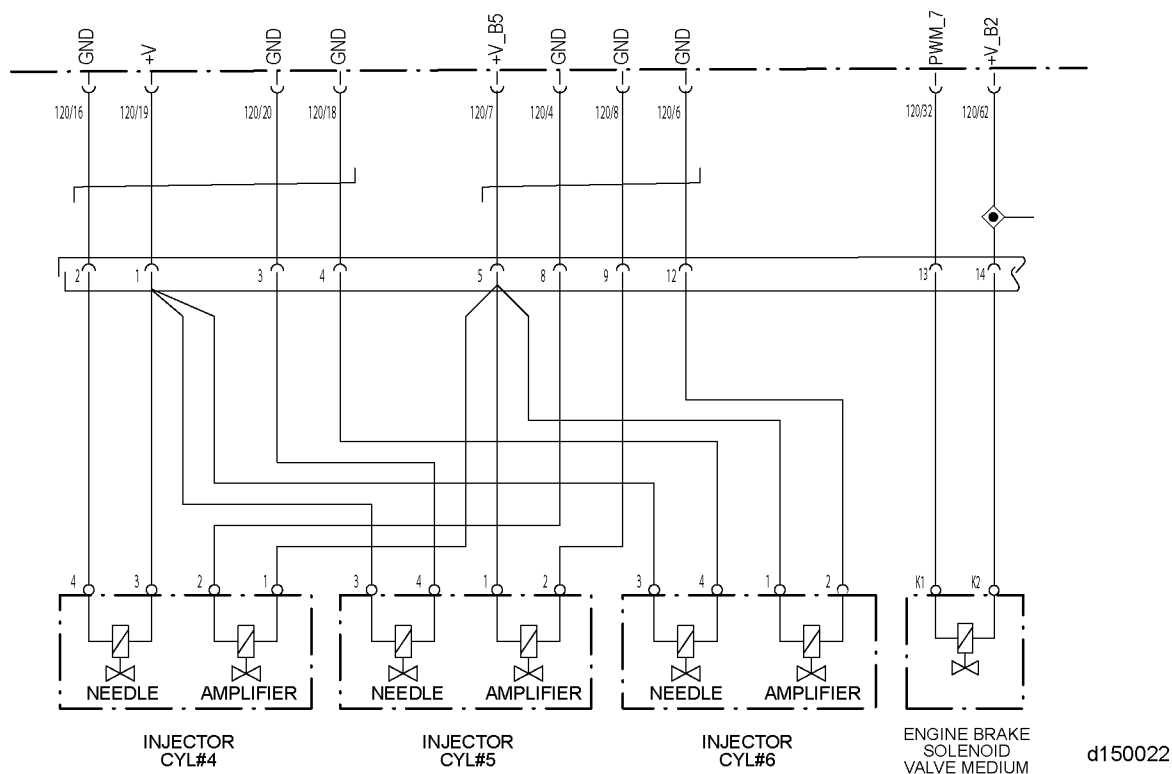


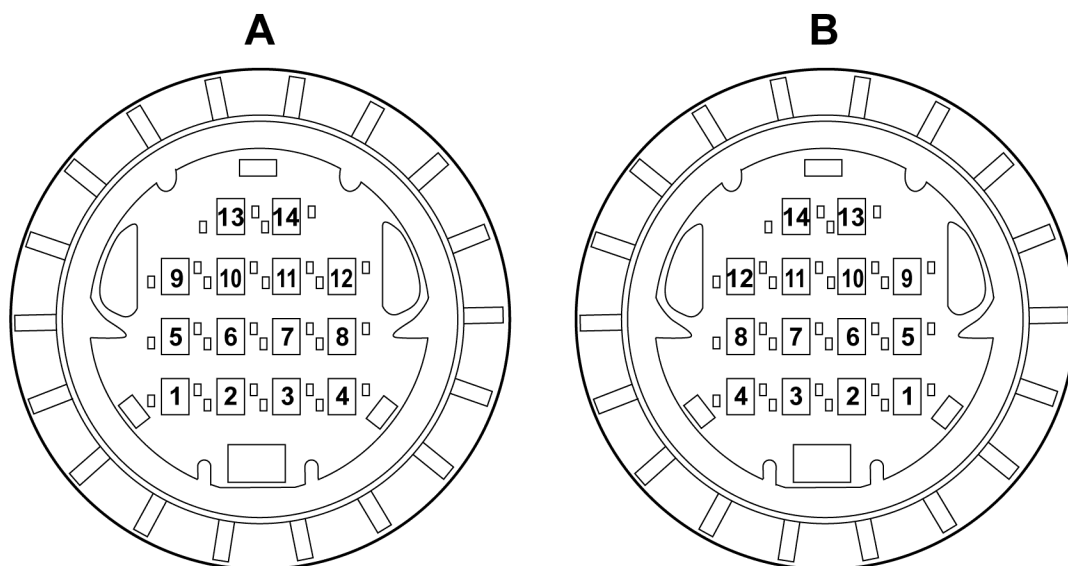
Table 1.

SPN 2798/FMI 4	
Description	Injector Needle Control Valve Cylinder 4, 5, 6 Shorted to Ground
Monitored Parameter	Injector Needle Control Valve Cylinder 4, 5, 6
Typical Enabling Conditions	Engine RPM = idle or higher
Monitor Sequence	None
Execution Frequency	Continuous when enabling conditions met
Typical Duration	2 Seconds
Dash Lamps	MIL, CEL
Engine Reaction	Derate 25%
Verification	Engine Idle (1 minute)

1. Disconnect the rear fuel injector harness 14-pin connector.
2. Inspect the rear fuel injector harness 14-pin connector for bent or spread pins; inspect the connector seal for damage (signs of water or oil intrusion).
 - a. If there is evidence of water or oil intrusion, bent or spread pins, repair as necessary.
 - b. If the connector shows no signs of damage, Go to step 3.
3. Measure the resistance between pin 1 on the rocker cover side of the rear fuel injector harness 14-pin connector and battery ground. If you are using J-48671-10, measure between fuel injector #4 pin 3 and battery ground.

Table 2.

A	Engine Harness Side
B	Valve Cover Side



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- a. If the resistance is less than 3 ohms, Go to step 4.
 - b. If the resistance is greater than 3 ohms, Go to step 11.
4. Remove the rocker cover. Refer to section "Removal of the Rocker Cover".
5. Disconnect fuel injector #4.
6. Measure the resistance between pin 1 on the rocker cover side of the rear fuel injector harness 14-pin connector and battery ground. If you are using J-48671-10, measure between fuel injector #4 pin 3 and ground.
 - a. If the resistance is greater than 3 ohms, replace the #4 fuel injector.
Refer to section "Removal of the Fuel Injector - Two-Filter System".
Refer to section "Removal of the Fuel Injector - Three-Filter System".
 - b. If the resistance is less than 3 ohms, Go to step 7.
7. Disconnect fuel injector #5.
8. Measure the resistance between pin 1 on the rocker cover side of the rear fuel injector harness 14-pin connector and battery ground. If you are using J-48671-10, measure between fuel injector #5 pin 3 and battery ground.
 - a. If the resistance is greater than 3 ohms, replace the #5 fuel injector.
Refer to section "Removal of the Fuel Injector - Two-Filter System".
Refer to section "Removal of the Fuel Injector - Three-Filter System".
 - b. If the resistance is less than 3 ohms, Go to step 9.
9. Disconnect fuel injector #6.
10. Measure the resistance between pin 1 on the rocker cover side of the rear fuel injector harness 14-pin connector and battery ground. If you are using J-48671-10, measure between fuel injector #6 pin 3 and battery ground.
 - a. If the resistance is greater than 3 ohms, replace the #6 fuel injector.
Refer to section "Removal of the Fuel Injector - Two-Filter System".
Refer to section "Removal of the Fuel Injector - Three-Filter System".
 - b. If the resistance is less than 3 ohms, replace the under valve cover fuel injector harness.
Refer to section "Removal of the Two-Piece Fuel Injector Wiring Harness - Two-Filter System".
Refer to section "Removal of the Two-Piece Fuel Injector Wiring Harness - Three-Filter System".
11. Disconnect the 120-pin Motor Control Module (MCM) connector.
12. Inspect the MCM 120-pin connector for bent or spread pins; inspect the connector seal for damage (signs of water or oil intrusion).
 - a. If there is evidence of water or oil intrusion, bent or spread pins, repair as necessary.

- b. If the connector shows no signs of damage, Go to step 13.
- 13. Measure the resistance between pin 1 on the engine harness side of the rear fuel injector harness 14-pin connector and battery ground.
 - a. If the resistance is less than 3 ohms, repair the short to ground between pin 19 of the MCM 120-pin connector and pin 1 of the rear fuel injector harness 14-pin connector.
 - b. If the resistance is greater than 3 ohms, call the Detroit™ Customer Support Center at 800-445-1980.