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Service Information Bulletin

SUBJECT	DATE
SID 146 07	September 2018

Additions, Revisions, or Updates

Publication Number / Title	Platform	Section Title	Change
DDC-SVC-MAN-0027	EPA04 MBE 900/4000	SID 146 07	Update EPA04 MBE 900/4000 diagnostic procedures.

DiagnosticLink users: Please update the troubleshooting guides in DiagnosticLink with this newest version. To update the tool troubleshooting guide, open DiagnosticLink and from the Help – Troubleshooting Guides menu, select the appropriate troubleshooting manual, then click Update.



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- [a] If fault code 146 02 is not active, erase fault code memory.
 - [b] If fault code 146 02 is still active, go to step 4.
4. Bridge pin 3 of the EGR valve to ground and check for active fault codes. See Figure 27-5.
- [a] If fault code 146 02 is no longer active, repair open circuit in wire between pin 11 of the 55-pin connector and pin 3 of the EGR valve and check for active fault codes. If fault code 146 02 is no longer active, erase fault code memory.
 - [b] If fault code 146 02 is still active, go to step 5.
5. Check the resistance between pin 50 of the 55-pin connector and pin 1 of the EGR valve. See Figure 27-5.
- [a] If the resistance is greater than 3 Ω , repair the open circuit in the wire between pin 50 of the 55-pin connector and pin 1 of the EGR valve. If fault code 146 02 is no longer active, erase fault code memory.
 - [b] If the resistance is less than 3 Ω , contact Detroit Diesel Technical Service.

27.2.4 146 07 – EGR Valve not Responding

Perform the following steps to resolve an EGR valve not responding:

1. Check active codes.
 - [a] If fault codes 146 07 and 146 02 are both active, refer to section 27.2.3.
 - [b] If fault code 146 07 is the only code active, check for lost continuity between the PLD-MR and the EGR valve (PV2). Refer to section 27.2.3.
2. Inspect the EGR cooler and piping for excessive soot build up. Is soot build up present?
 - [a] Yes; clean/repair as needed.
 - [b] No; Go to next step.
3. Replace the EGR valve. Is the fault code still active?
 - [a] Yes; upload PLD-MR parameters to the server. Replace PLD-MR and program using MBE Reprogramming.
 - [b] No; erase fault code memory and release vehicle.

27.2.5 146 12 – Bad Component

Perform the following steps to resolve a Bad Component fault code.

1. Check active codes.
 - [a] If fault code 146 12 is active, inspect the EGR valve flap. If freedom of movement is restricted. remove soot and clean deposits as required.
 - [b] If fault code 146 12 is still active, contact Detroit Diesel Technical Service for instructions to perform a PV2 activation test to verify flap valve functionality.
2. Check for active fault codes