

TO: Service Locations

FROM: Service Systems Development

SUBJECT: **GHG14 DD13™ Turbocharger Wastegate Service Kit**

ISSUE

Some GHG14 DD13 engines (engine models 471927, 471933, 471934, and 471935) are experiencing one or more of the following fault codes. The codes are more likely to occur in hot and humid weather.

- MCM code SPN 102/FMI 18 - Intake Manifold Pressure Too Low
- MCM code SPN 102/FMI 16 - Intake Manifold Pressure Too High
- MCM code SPN 3464/FMI 16 - Intake Manifold Pressure Too High (Restricted Mode)

CAUSE

The cause of the code may be a stuck turbocharger wastegate mechanism due to several reasons, such as corrosion or a faulty wastegate diaphragm. See Figure 1.

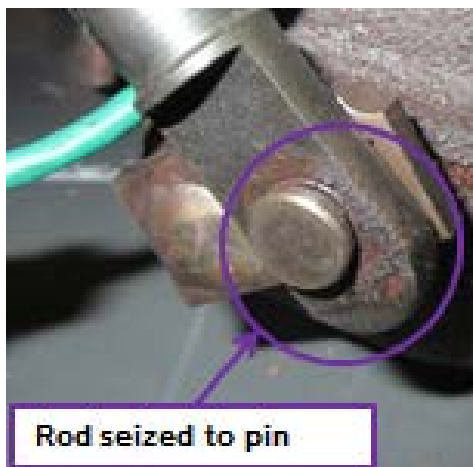


Figure 1 – Seized Wastegate Mechanism

REQUIRED ACTION

Follow the updated troubleshooting for MCM fault codes SPN 102/FMI 18 and FMI 16, and SPN 3464/FMI 16 in the *EPA07/10/GHG14 DDEC VI/10 Electronics and Troubleshooting Manual* (DDC-SVC-MAN-0084). Also check for previous fuel injector replacements to make sure the correct replacement part was used. For example, using EPA10 DD13 injectors in a GHG14 DD13 engine can cause these codes.

REQUIRED MATERIAL

If the troubleshooting finds the turbocharger wastegate mechanism faulty, replace the mechanism with wastegate service kit P/N: A4710961769. This new serviceable wastegate has improved corrosion resistance.

REPAIR PROCEDURE

Reference the service procedures in the *EPA07/10/GHG14 Engine Manual* (DDC-SVC-MAN-0081) for the chapter called "GHG14 DD13 Turbocharger Wastegate Actuator Replacement". It contains sections for removal, inspection, and installation/adjustment procedures. Also reference Tool Letter 17 TL-7 for the necessary tools to perform the work.

NOTICE:
Units built prior to May, 2014, may be equipped with a unique turbocharger assembly with a wastegate actuator that cannot be serviced. The pin diameter is smaller and can be verified during the inspection procedure in the <i>EPA07/10/GHG14 Engine Manual</i> (DDC-SVC-MAN-0081).

CLAIM PROCESS

Normal in-warranty procedures apply. **Proactive removal of properly functioning parts is not allowed under warranty.**

If a mechanical failure is found in warranty, file the claim as follows:

- Claim type: 1 (base warranty) or 2 (extended coverage)
- Fault type: D5 (seized)
- PFP: A4710961769
- Parts return: Required. Reference letter 12 CSA-19 for shipping information.

Troubleshooting may include the following labor operations and times:

- Labor Operation 101-012BE, Wastegate Solenoid Diagnostics - Moderate
- Labor Operation 101-012EE, Wastegate Solenoid Diagnostics - Difficult
- Labor Operation 11A-6500E, Turbocharger R&R
- Labor Operation 11A-6502E, Turbocharger Wastegate Actuator R&R
- Labor Operation 939-6225D, Computer Hookup Used In Diagnostics
- Admin Labor Operation 939-6010B

CONTACT INFORMATION

Please contact the Detroit Diesel Customer Support Center at 800-445-1980 or email csc@daimler.com if you have any questions.