

FIELD SERVICE CAMPAIGN BULLETIN

Subject: **Field Service Campaign D19M2**
GHG17 Detroit™ DD5™ Fan Hub Bolt Torque Inspection

Issue Involved

Detroit Diesel Corporation (DDC) has determined that some GHG17 Detroit™ DD5™ engines will need to have the fan hub bolts inspected for correct torque. On certain engines, the protective clear coat applied to the engine before fan hub installation may cause the fan hub bolt torque to diminish over time. Decreased fan hub bolt torque may cause failure of the fan hub and surrounding components such as the fan and radiator, causing customer dissatisfaction.

Protective tape to mask off the fan hub installation area on the engine prior to clear coat application became effective with engines manufactured in Germany after February 13, 2018. Any GHG17 Detroit™ DD5™ engine manufactured before this date will need the fan hub bolts inspected for correct torque and repaired if necessary. Note that some engines built within this time frame may already have been inspected and/or repaired, and therefore excluded from this Field Service Campaign.

There are approximately 1,806 engines affected by this Field Service Campaign.

Engines Involved

A list of engines located in your area of responsibility that require this correction is attached.

The table below gives descriptive information to help identify the affected units:

Model Series	Model Number	Model Year	Inclusive Engine Mfg. Date (From) (To)	Descriptive Information
DD5	D934912	2016 2017 2018	January 2016 to February 13, 2018	All applications

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Owner Notification

Detroit Diesel will notify owners of equipment incorporating engines identified with this Field Service Campaign. A copy of the owner letter that will be used by Detroit Diesel is enclosed with this Field Service Campaign Bulletin.

Distributor / Dealer Campaign Responsibility

Detroit Diesel repair facilities are to service all engines subject to this Field Service Campaign. Field Service Campaign D19M2 is to be performed at no charge to owners on all affected engines under the engine warranty or prior to **February 28, 2020** under the provisions of this Field Service Campaign.

Please use the appropriate steps, noted below, for indicating that Field Service Campaign D19M2 has been completed.

Daimler Trucks North America Vehicles

- Check the base label (**Form WAR259**) to see if **Field Service Campaign D19M2** has been completed. The base label is usually located on the passenger-side door about 30 cm (12 inches) below the door latch. If **Field Service Campaign D19M2** has been completed, no further work is needed. If base label is not located on the passenger-side door, please affix label (**Form WAR259**) 30 cm (12 inches) from the door latch.
- Upon completion of **Field Service Campaign D19M2**, clean a spot on the base label (**Form WAR259**), write the Field Service Campaign Number (**D19M2**) on a blank, black completion sticker (**Form WAR261**), and attach it to the base label.

Ordering Information

1. If you do not have the appropriate Form or Labels (DDC_WAR 259, DDC_WAR 260, DDC_WAR 261), they can be ordered from **EPI Printers** by emailing your order to ddc@epiinc.com.
2. You can also fax in your order to **269-698-4240 Attn: Corrina Cotton**.
3. Contact **EPI Printers at 734-464-9000**.

Parts Information

There are no parts required for this Field Service Campaign unless an under-torqued fan hub bolt is discovered. If the inspection results require fan hub bolt replacement, or fan hub bolt and fan hub replacement, the required parts for this repair are shown below in Table 1. Note that Detroit™ expects a very low percentage of vehicles on the list to require any kind of parts replacement.

Part Number	Quantity	Description
N910105010011	4	SCREW (Fan Hub Mounting Bolt) - M10 x 40
A9362000628	1	FANDRVE BRKT (Fan Hub)

Table 1 – Parts Information

Corrective Procedure

1. Apply the parking brake, turn off the ignition, disconnect vehicle battery power, chock the wheels, and perform any other applicable safety steps.
2. Remove the fan hub pulley. **REFERENCE** chapter “Belt Drive” and section “Removal of the Fan Hub Pulley” in the *GHG17 DD5 934912(C) Workshop Manual* (DDC-SVC-MAN-0194).
3. Inspect the four fan hub mounting bolts to see if they are all present. See Figure 1, and note the fan hub pulley is also pictured. Are all four fan hub mounting bolts present?
 - a. If Yes, then proceed to step 4.
 - b. If No, then proceed to step 5.

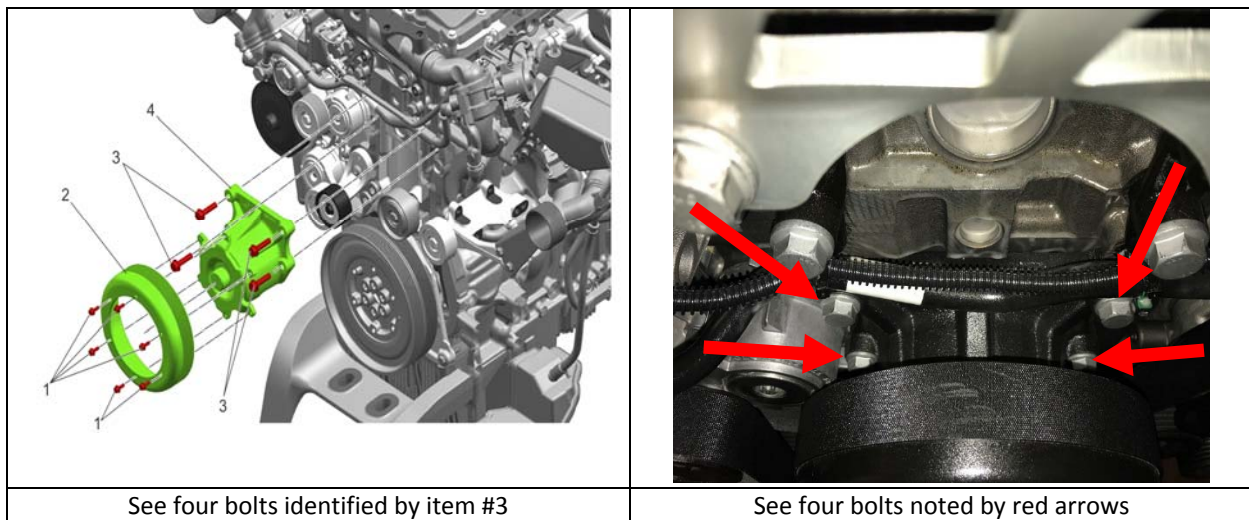


Figure 1 – Fan Hub Mounting Bolt Location

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4. Re-torque the four fan hub mounting bolts to 50 N·m (37 lb·ft). Proceed to step 15.
5. For any fan hub bolts missing, did they break off and leave a portion of the bolt in the block? See Figure 2.
 - a. If Yes (bolt broken off), then proceed to step 6.
 - b. If No (bolt missing), then proceed to step 13.

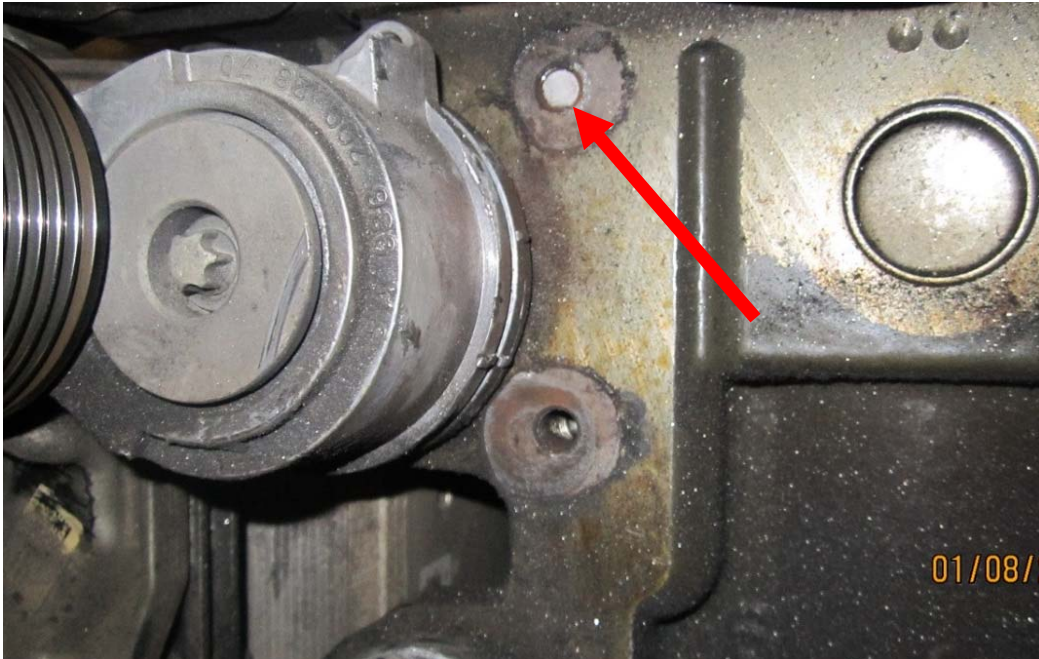


Figure 2 – Broken Bolt Example

6. Remove the hood. Refer to Original Equipment Manufacturer (OEM) procedures.
7. Remove the radiator and charge air cooler assembly. Refer to Original Equipment Manufacturer (OEM) procedures.
8. Remove the fan hub. **REFERENCE** chapter “Belt Drive” and section “Removal of the Fan Hub” in the *GHG17 DD5 934912(C) Workshop Manual* (DDC-SVC-MAN-0194).
9. Use an acceptable method of bolt removal such as drilling out and extracting the broken bolt piece in the block.

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10. Replace the fan hub with P/N: A9362000628 and the four fan hub mounting bolts with P/N: N91010501001. **REFERENCE** chapter “Belt Drive” and section “Installation of the Fan Hub” in the *GHG17 DD5 934912(C) Workshop Manual* (DDC-SVC-MAN-0194).
11. Install the radiator and charge air cooler assembly. Refer to Original Equipment Manufacturer (OEM) procedures.
12. Install the hood. Refer to Original Equipment Manufacturer (OEM) procedures. Go to step 14.
13. Replace the four fan hub mounting bolts one at a time with P/N: N91010501001. **REFERENCE** chapter “Belt Drive” and section “Installation of the Fan Hub” in the *GHG17 DD5 934912(C) Workshop Manual* (DDC-SVC-MAN-0194).
14. Inspect the fan belt and crank pulley for damage from the missing bolt.
15. Torque the fan drive idler pulley (item #4) to 50 N·m (37 lb·ft). See Figure 3.

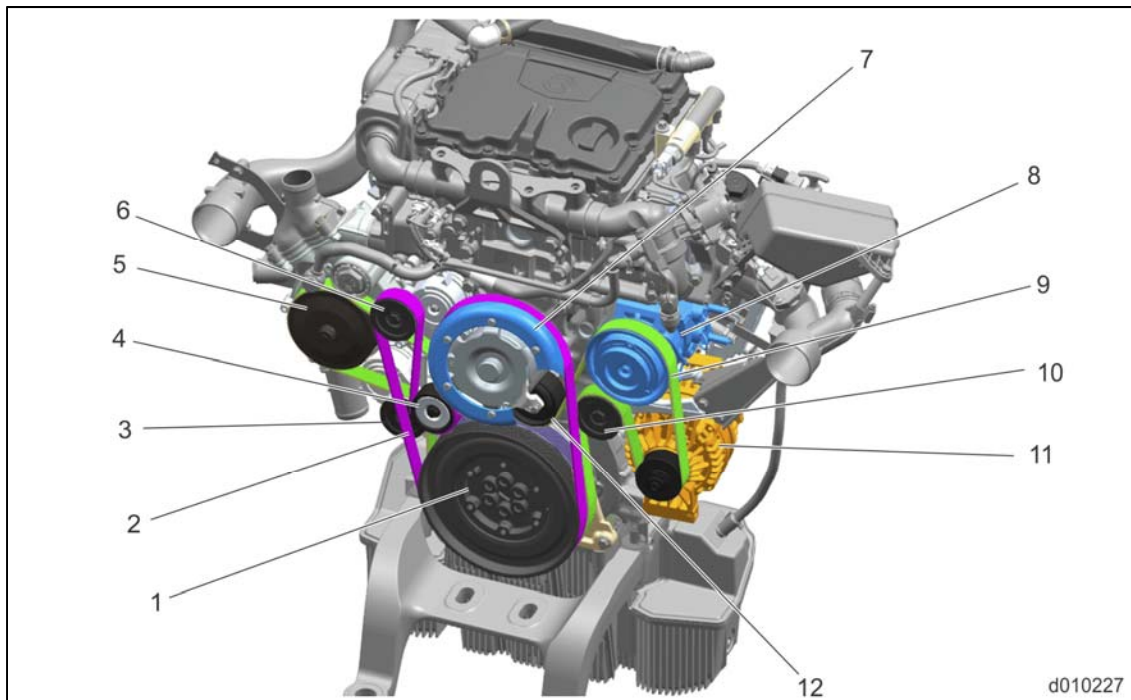


Figure 3 – Fan Drive Idler Pulley and Fan Drive Belt Tensioner Location

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16. Torque the fan drive belt tensioner (item #6) mounting bolt to the cylinder block to 50 N·m (37 lb·ft). See Figure 3. You must torque the mounting bolt to the cylinder block, and not the pulley mounting bolt.

17. Install the fan hub pulley. **REFERENCE** chapter “Belt Drive” and section “Installation of the Fan Hub Pulley” in the *GHG17 DD5 934912(C) Workshop Manual* (DDC-SVC-MAN-0194).

18. Repairs are complete.

Warranty Information

Notice	
There are three different labor codes listed below. Use only one of these codes when filing the claim depending on the repair.	
Claim administration time, SRT 939-6010A, for 0.3 hours will automatically be added.	
Claim Type:	FIELD SERVICE CAMPAIGN
Modification:	D19M2
Cause Code:	A1-CAMPAIGN
Primary Failed Part:	N910105010011
Use this operation if all four fan hub mounting bolts are present and were re-torqued, along with the fan drive idler pulley #1 and fan drive belt tensioner.	
Labor Code:	996-F192A
Labor:	0.8 Hours
Use this operation if any fan hub mounting bolts were missing (not broken off) and replaced, along with re-torquing the fan drive idler pulley #1 and fan drive belt tensioner.	
Labor Code:	996-F192B
Labor:	1.0 Hours
Use this operation if any fan hub mounting bolts were broken off, and replaced along with the fan hub, along with re-torquing the fan drive idler pulley #1 and fan drive belt tensioner.	
Labor Code:	996-F192C
Labor:	3.1 Hours
Parts Return:	REQUIRED

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

DETROIT DIESEL
13400 Outer Drive West
Detroit, Michigan 48239-4001



Detroit Diesel Corporation
13400 Outer Drive, West
Detroit, Michigan 48239-4001
Telephone: 313-592-5000

Attention: Vehicle Owner:

Subject: **Field Service Campaign D19M2**
GHG17 Detroit™ DD5™ Fan Hub Bolt Torque Inspection

Detroit Diesel Corporation (DDC) has determined that some GHG17 Detroit™ DD5™ engines will need to have the fan hub bolts inspected for correct torque. On certain engines, the protective clear coat applied to the engine before fan hub installation may cause the fan hub bolt torque to diminish over time.

Decreased fan hub bolt torque may cause failure of the fan hub and surrounding components such as the fan and radiator causing customer dissatisfaction.

Records available to us indicate that your vehicle has one of the eligible engines. Instructions for this Field Action have been sent to your local Detroit Diesel Authorized Repair Facility and the labor time required to perform this repair is approximately **3.1** hours.

Please contact a Detroit Diesel Authorized Repair Facility to arrange to have the Field Action performed. To locate an authorized facility, search online at www.detroitdiesel.com/locations/default.aspx.

This service will be completed for you at no charge, prior to **February 28, 2020**, under the provisions of this notice.

We are sorry to cause you this inconvenience; however, we have taken this action in the interest of your continued satisfaction with our products.

DETROIT DIESEL WARRANTY CAMPAIGNS DEPARTMENT
Enclosure