

09/27/2024
CAL FTL 01-006

Subject: Proactive Turbocharger Mounting Bracket Replacement

Make: Detroit

Model: DD13 Gen 5 Engines

Model Year Affected: 2022-2023

Build Date Range: Selected Vehicles Built Between February 7, 2022, and August 18, 2023

Our records indicate that you own Detroit engines that have previously cracked turbo oil drain tubes. For this reason, we have decided to share this information with you.

On select units with the multiple turbo oil return line failures, engineering is requesting additional steps and the return of replaced parts to aid with understanding the root cause. Replace and return the oil return line, turbo mounting bracket, support bracket, and all the associated bolts. This is strictly for testing of the parts. See work instructions below.

We hope you find this information helpful.

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Work Instruction

1. Park the vehicle on a level surface, shut down the engine, and set the parking brake. Chock the tires.
2. Number the six bolts for the turbo mounting brackets with a paint marker as shown in **fig. 1**.
3. Remove the turbo mounting bracket and support bracket. For instructions, see section 'Removal of the Turbocharger' in the *DD13 Gen 5 Workshop manual*.

Note: Due to clearance, bolt #4 needs to be removed with a wrench and tightened with a crowfoot socket.

4. When removing the bolts, note the break-away torque in N·m and document the values in the boxes below.

Example for reference only:

- Bolts 1, 2, 3, 4 torque = 30 N·m.
 - Bolts 5, 6 torque = 60 N·m.
5. If the torque is too low and no reading was measured put 'L' in the box. If the bolt is missing put 'M' in the box.
 6. Return the completed document with the parts.

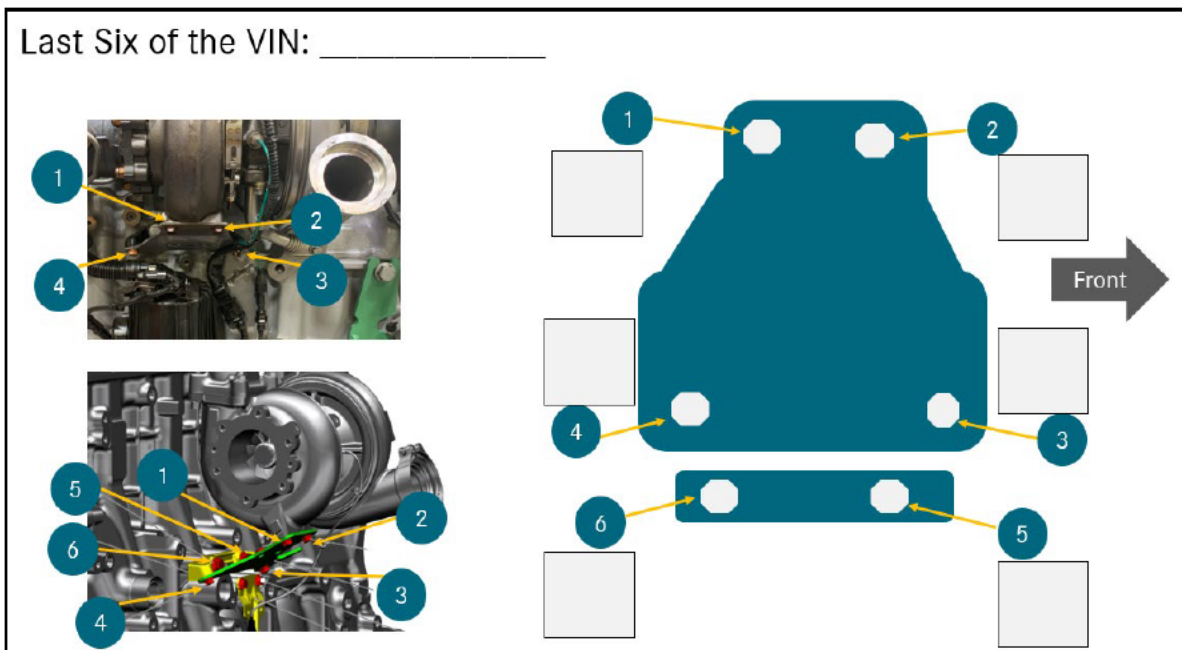


Fig. 1, Numbering the Six Bolts for the Turbo Mounting Brackets

7. Install the turbocharger mounting bracket. For instructions, see section 'Installation of the Turbocharger Mounting Bracket' in the *DD13 Gen 5 Workshop manual*. See **Table. 1**.
8. Install the turbocharger oil return line. For instructions, see section 'Installation of the Turbocharger Oil Return Line' in the *DD13 Gen 5 Workshop manual*.

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Part Description	Part Number	Quantity
Turbocharger Mounting Bracket	DDE A4710960842	1
Bolt, Turbocharger Mounting Bracket	DDE N910105010007	2
Turbocharger Support Bracket	DDE A4710906341	1
Bolt, Turbocharger Support Bracket	DDE A0119902301	4
O-Ring, Turbocharger Oil Return Line	DDE A0309974645	1
Gasket, Turbocharger Oil Return Line	DDE A5411870080	1
Oil Return Line, Turbocharger	DDE A4711803520	1

Table. 1, Parts Required

9. Once the repair is completed, return directly to Detroit Diesel at the address below.

Detroit Diesel Corporation
12200 Telegraph Road
Redford, Michigan 48239
Attn: Return Material Center – Charles Hazel
313-592-5000
DDC UPS Account No. E49591

Include the worksheet above with the components replaced.

CLAIM PROCESS

10. Submit a QST claim in OWL. The claim will include:
- The above parts and parts markup.
 - SRT for removal and installation plus admin time.
 - Cost of shipping the part back for inspection.