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Service Information Bulletin

| SUBJECT | DATE |
|---|---------------|
| GHG14 DD15 Asymmetrical Turbocharger Flanged Exhaust Manifold | February 2013 |

Additions, Revisions, or Updates

| Publication Number / Title | Platform | Section Title | Change |
|----------------------------|-------------|---|--|
| DDC-SVC-MAN-0083 | DD Platform | Removal of the GHG14 DD15 Asymmetrical Turbocharger Flanged Exhaust Manifold | Revised procedure and the order of steps in the procedure. Added torque specification in step 8 of the Installation section. |
| | | Installation of the GHG14 DD15 Asymmetrical Turbocharger Flanged Exhaust Manifold | |



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2 Removal of the GHG14 DD15 AT Flanged Exhaust Manifold

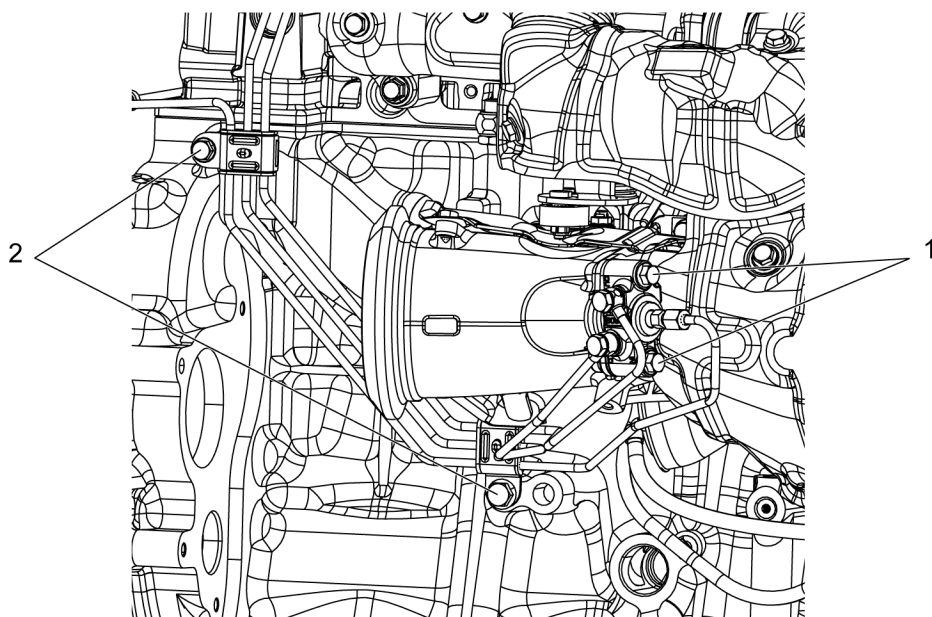
Remove as follows:



WARNING: PERSONAL INJURY

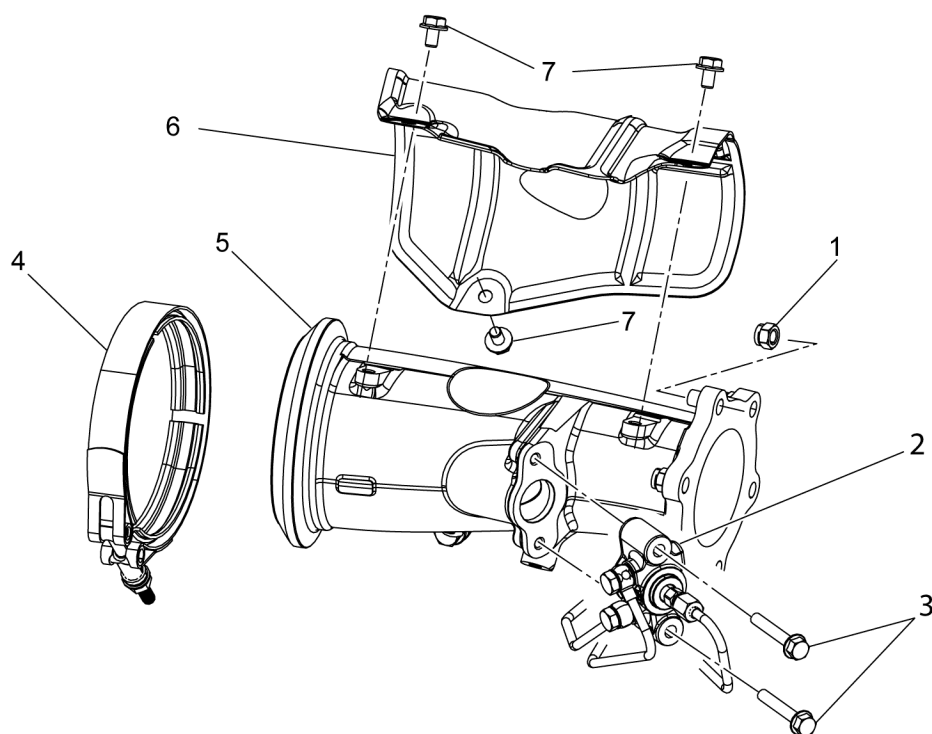
To avoid injury, never remove any engine component while the engine is running.

1. Remove the two bolts (2) holding the coolant and fuel lines to the block.



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2. Remove two mounting bolts (1) on the Hydrocarbon (HC) fuel doser housing. Discard the mounting gasket.
3. Remove the heat shields covering the center section of the exhaust manifold as well as the turbocharger.
4. Remove the spherical clamp (4) at the rear of the flanged exhaust manifold (5) attached to the Original Equipment Manufacturer (OEM) exhaust piping. Discard the clamp.



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5. Remove the three bolts (7) from the heat shield (6) on the flanged exhaust manifold (5).
6. Remove the six mounting nuts (1) attaching the flanged exhaust manifold to the turbocharger. Discard the nuts.

NOTICE: When removing the Flanged Exhaust Manifold make sure the HC doser coolant and fuel lines are not bent or kinked causing damage.

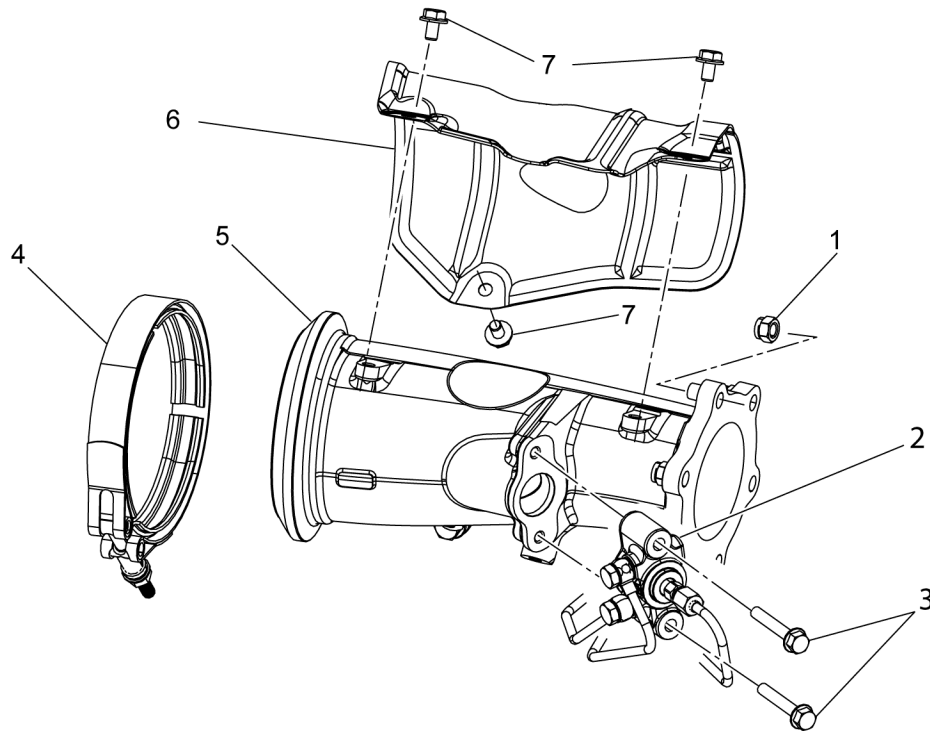
7. Position the HC fuel doser housing (2) aside.
8. Remove the flanged exhaust manifold (5).

3 Installation of the GHG14 DD15 AT Flanged Exhaust Manifold

Install as follows:

NOTICE: When installing the flanged exhaust manifold, make sure the Hydrocarbon (HC) doser coolant and fuel lines are not bent or kinked causing damage.

1. Position the HC fuel doser housing (2) aside.



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2. Install the turbocharger flanged exhaust manifold (5) with new nuts (1) to the turbocharger. Torque to 50 N•m (37 lb•ft).
3. Using a new spherical clamp (4), connect the OEM exhaust bellows to the flanged exhaust manifold (5). Torque clamp bolt to 12 N•m (9 lb•ft).
4. Install the heat shield (6) on the flanged exhaust manifold with the three mounting bolts (7).



WARNING: PERSONAL INJURY

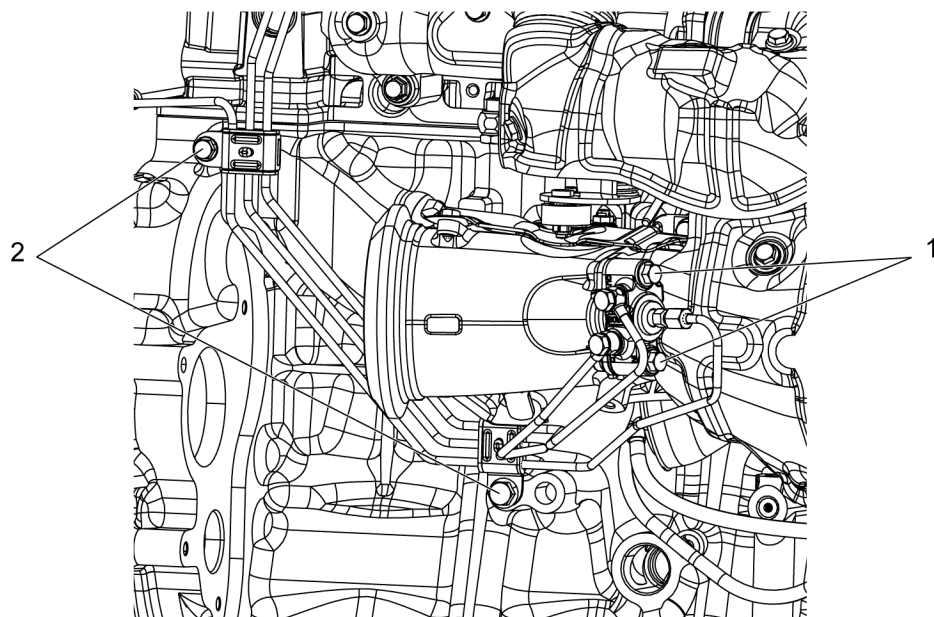
To avoid injury before starting and running the engine, ensure the vehicle is parked on a level surface, parking brake is set, and the wheels are blocked.



WARNING: ENGINE EXHAUST

To avoid injury from inhaling engine exhaust, always operate the engine in a well-ventilated area. Engine exhaust is toxic.

5. Install the HC fuel doser housing to the flanged exhaust manifold with a new mounting gasket and two bolts (1). Torque the bolts to 30 N•m (22 lb•ft).



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6. Install the bolts (2) mounting the P-clips to the block for the fuel and coolant lines.
7. Torque the bolt towards the rear of the cylinder block to 30 N•m (22 lb•ft).
8. Torque the bolt closest to the HC fuel doser housing to 60 N•m (44 lb•ft).
9. Start the engine and check for leaks.