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Service Information Bulletin

SUBJECT	DATE
Diagnostic Test - Engine Brake Test Procedure	January 2017

Additions, Revisions, or Updates

Publication Number / Title	Platform	Section Title	Change
DDC-SVC-MAN-0193	GHG17 Medium Duty	Engine Brake Test Procedure	This is a new procedure for testing the engine brakes on MDEG engines.

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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2 Engine Brake Test Procedure

NOTE: This procedure should only be performed after the engine brakes have been verified to be inoperative.

1. Remove the rocker cover.
2. Visually inspect the engine brake piston rocker and roller for damage. Is the rocker or roller damaged?
   a. Yes; replace the rocker assembly and camshaft.
   b. No; Go to step 3.
3. Remove the engine brake solenoid.
4. Lube the O-rings on the tool with clean engine oil and install the engine brake tool into the engine brake solenoid port in the cylinder head with the tab (1) facing toward the engine coolant temperature sensor.

5. Rotate the engine until cylinder #1 has reached TDC.

WARNING: PERSONAL INJURY

To avoid injury from the sudden release of a high-pressure hose connection, wear a face shield or goggles.

6. Regulate the air pressure to 72 psi (5 bar) and apply air to the engine brake tool.
7. Monitor the engine brake piston for cylinder #1 and #3. When air is applied, the engine brake piston should extend toward the camshaft (1).

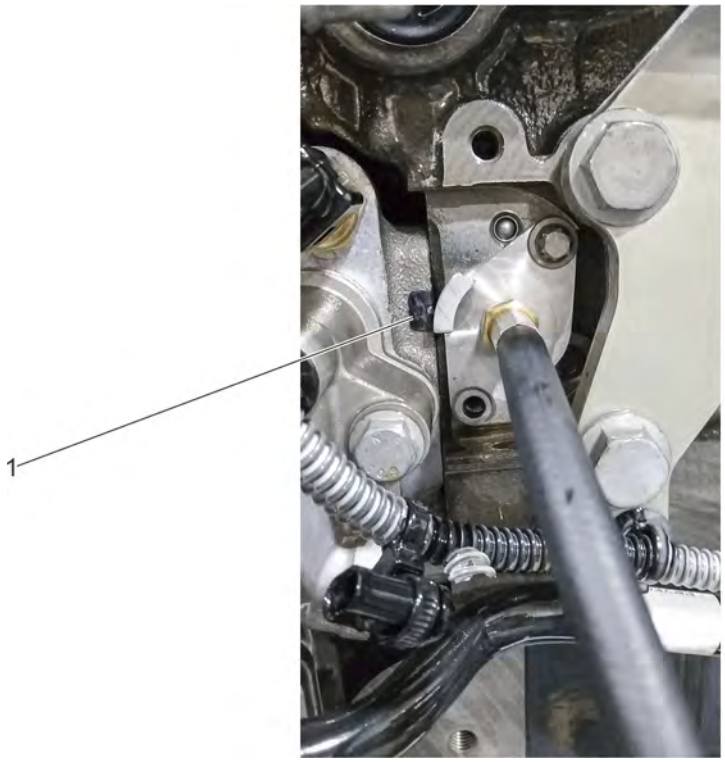
8. Release the air pressure to the engine brake tool.
9. Monitor the engine brake piston for cylinders #1 and #3. When the air pressure is released, the pistons should retract (1).

10. Rotate the engine until cylinder #4 is at TDC.

WARNING: PERSONAL INJURY

To avoid injury from the sudden release of a high-pressure hose connection, wear a face shield or goggles.

11. Regulate the air pressure to 72 psi (5 bar) and apply air to the engine brake tool.
12. Monitor the engine brake piston for cylinder #2 and #4. When air is applied, the engine brake piston should extend toward the camshaft.
13. Release the air pressure to the engine brake tool.
14. Monitor the engine brake piston for cylinder #2 and #4. When air is released, the engine brake piston should retract.
15. Remove the engine brake test tool using a rolling head (lady slipper) pry bar under the tab (1).



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16. Does the engine exhaust brake piston for each cylinder extend toward the camshaft when air pressure is applied, and then retract when the air is released?
    a. Yes; replace the engine brake solenoid.
    b. No; replace the failed engine brake pistons.

