EEDF400-535

Mercedes GLK250 (2013-2015) 2.1L Diesel EGR Cleaning Instructions

EGR Adapter
EEDF400-535

WARNING: Wear gloves and safety goggles (User and bystanders) when performing this service

IMPORTANT: Immediately after a service, a forced regen must be completed. If a regen cannot be commanded via a scan tool (see OEM recommendations), the vehicle must be road tested at highway speeds for approximately 20-30 minutes. This is necessary to remove any remaining cleaning solution from the passages and cooler(s), and to combust any material that has reached the diesel particulate filters (DPF).
<u>This must be completed immediately after the service.</u>

EGR System Consists of:

- Hot side EGR valve (before EGR cooler) controls exhaust gases for proper emissions control of NOx gases
- EGR pre-cooler (controls temperature of exhaust gases to the EGR valve)
- EGR cooler (controls temperature of exhaust gases to the air intake to the engine)
- EGR cooler bypass valve located pre EGR cooler (controls cold exhaust gases to bypass EGR cooler)
- Exhaust back pressure sensor (measures exhaust pressure pre EGR valve)
- EGR temperature sensor (measures EGR cooler exhaust temperature and efficiency)

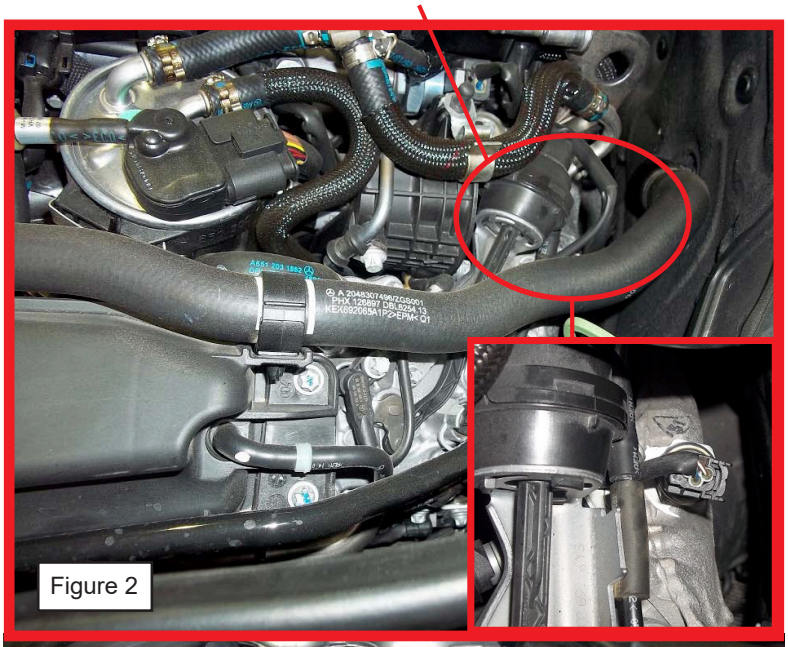
These items are critical for proper emissions management control and must be cleaned on a regular basis for optimum efficiency.

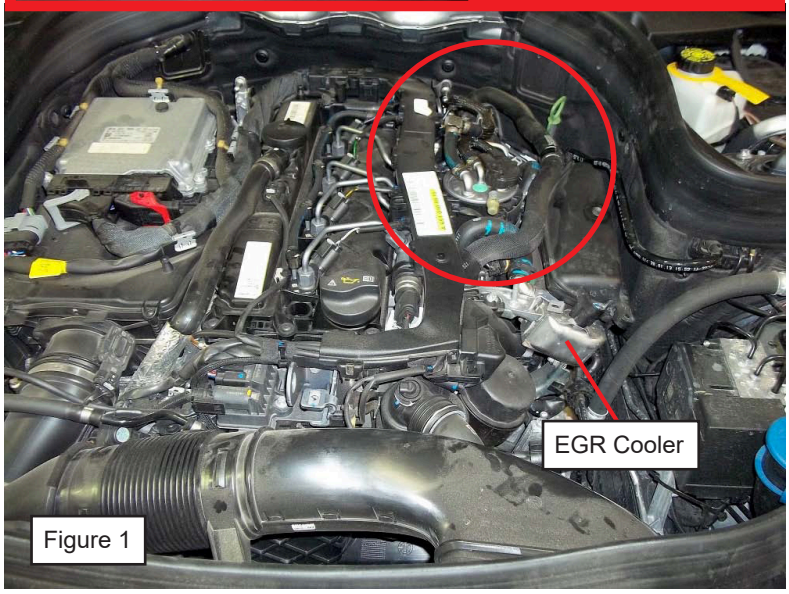
First steps before any service can be performed.

1. Add Blue-Point® Diesel Fuel Injector Cleaner (EEDF400-INJ) to the vehicle's fuel tank.
2. Remove the plastic engine cover.
3. If the engine is hot, the EGR cooler must be cooled – see step 6

Locations of EGR components:

- EGR valve underneath EGR cooler (Not Visible)
- EGR cooler bypass valve (Figure 2)
- Exhaust back pressure sensor (Figure 2)





Tool & Manifold Required:

- EGR Tool (EEDF400)
- Scanner to operate EGR valve and EGR cooler bypass valve

EEDF400

4. Unclip hose clamp for easier moving of hose (see figure 3).
5. Disconnect exhaust back pressure electrical. Remove exhaust back pressure sensor. Reconnect electrical connector (see figure 3)
6. Install EGR Adapter (EEDF400-535) in its place hand tight (see figure 3).

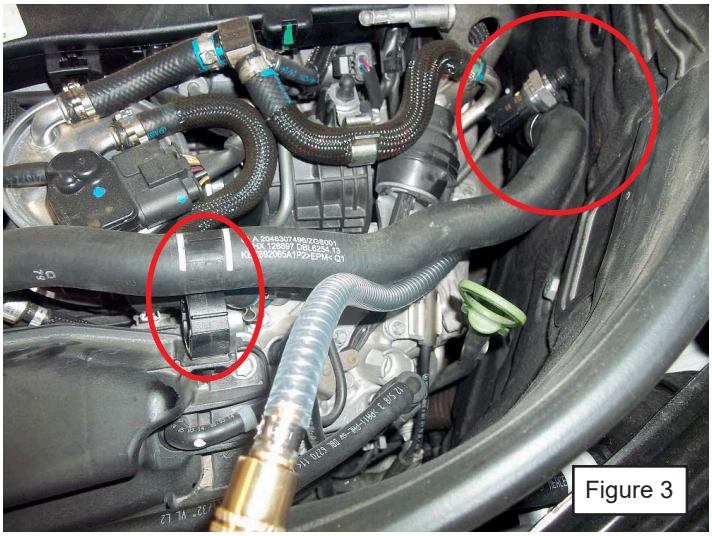


Figure 3

7. Attach aerator assembly to EGR Adapter. Ensure air valve and fluid valve are closed.
8. Unscrew fill cap and fill with 32oz (946mL) of EGR and Induction System Cleaner (EEDF400-EGR). For first application or severe coking, 64 oz. may be required.
9. Reinstall the fill cap and hang tool from the hood latch. Connect shop air. Set air pressure on EGR tool to 40-45 psi.

NOTE: If engine is hot, the EGR pre-cooler must be cooled before treatment can start. Before step 7 can proceed, ignition must be off, open EGR tool air valve, keeping the fluid valve closed and flush pre-cooler with air for 2 minutes.

10. Start vehicle engine. Using the scan tool, command the EGR closed as this will clean the EGR pre-cooler.
11. Open Air valve, adjust regulator to maintain initial pressure, then open the fluid valve on the tool.
12. After 1/4 of the fluid has been consumed, turn the fluid valve off and let the air flow for an additional 2 minutes to flush deposits into exhaust stream.
13. Repeat step 8 allowing another ¼ of the fluid to be consumed.
14. Using the scan tool command EGR valve open (80% max). The EGR valve will operate normally for 30 seconds. Command EGR valve open again and again throughout this step until additional 1/4 of the fluid is consumed.
15. Using the scan tool command EGR cooler bypass actuator close (0%). The EGR cooler bypass will operate normally after 30 seconds. Command EGR bypass actuator close again and again throughout this step until EGR tool is empty.

Note: If at any time during the intake (with EGR valve open) service you hear a diesel knock sound, turn air and liquid valve on EGR tool closed for 2 minutes. After two minutes then turn air and liquid valve open and continue service.

Let the vehicle operate for an additional 5 minutes and rev the engine several times to clear all residual fluid.

16. Turn the fluid and air valve on tool to the closed position. Detach shop air line and depressurize the tool by rotating the regulator knob counter clockwise.
17. Remove adaptor and reassemble vehicle components in the reverse order of removal.

18. Immediately after a service, a forced regen must be completed. If a regen cannot be commanded via a scan tool (see OEM recommendations), the vehicle must be road tested at highway speeds for approximately 20-30 minutes. This is necessary to remove any remaining cleaning solution from the passages and cooler(s), and to combust any material that has reached the diesel particulate filters (DPF).
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