

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

**Always wear gloves and safety glasses
when performing this service**

EGR System Consists of:

- Hot side EGR valve (before EGR cooler) controls exhaust gases for proper emissions control of No_x 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 TerraDiesel™ Fuel Injector Cleaner (201255) to the vehicle's fuel tank.**
2. **Remove the plastic engine cover.**
3. **If the engine is hot, the EGR cooler must be cooled.**

Adapter Required:

201535 EGR Adapter

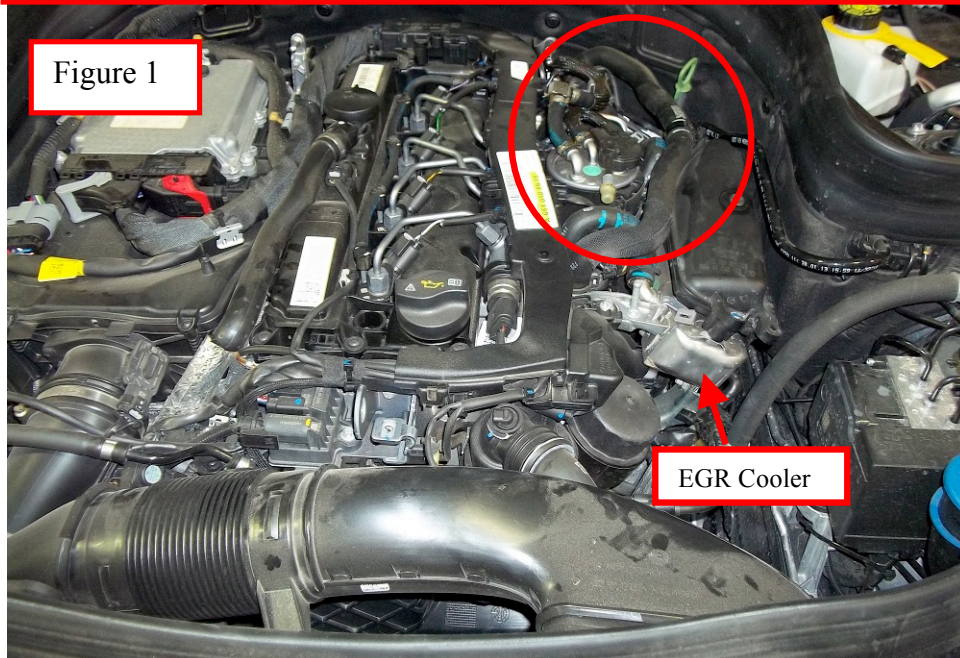
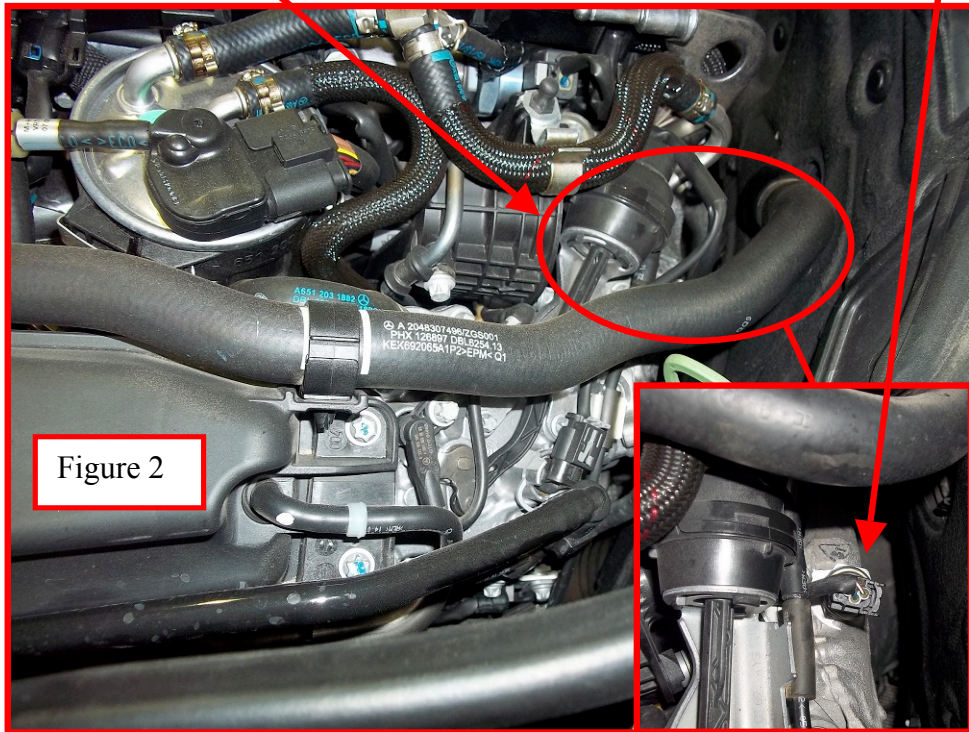


Tools Required:

- **Scan tool to operate EGR valve and EGR cooler bypass valve**
- **201170 – TerraDiesel™ EGR Cleaning Tool**

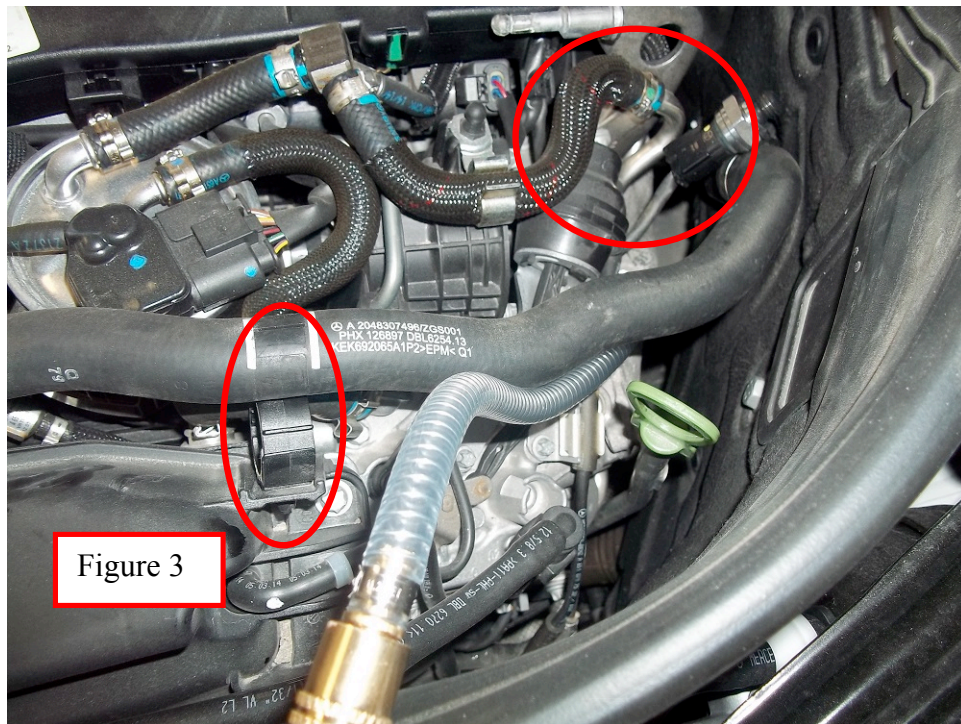
Locations of EGR components:

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



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1. Unclip hose clamp for easier moving of hose (see Figure 3).
2. Disconnect exhaust back pressure electrical. Remove exhaust back pressure sensor. Reconnect electrical connector (see Figure 3)
3. Install the EGR Adapter (201535) in its place, hand tight (see Figure 3).



4. Attach aerator assembly to the EGR Adapter. Ensure that the air valve and fluid valve are closed.
5. Unscrew the fill cap and fill with 32oz (946mL) of TerraDiesel™ EGR System Cleaner (201278, 201279 or 201280). For first application or severe coking, 64 oz. may be required.
6. Reinstall the fill cap and hang the EGR Cleaning Tool from the hood latch. Connect shop air. Set air pressure on the EGR Cleaning Tool to 40-45 psi.

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

7. Start the vehicle engine. Using the scan tool, command the EGR closed as this will clean the EGR pre-cooler.
8. Open the air valve, adjust the regulator to maintain the initial pressure, and then open the fluid valve on the EGR Cleaning Tool.
9. 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.
10. Repeat steps 8-9 allowing another 1/4 of the fluid to be consumed.
11. 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.
12. 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 the EGR Cleaning 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.

13. Turn the fluid and air valve on the EGR Cleaning Tool to the closed position. Detach shop air line and depressurize the EGR Cleaning Tool by rotating the regulator knob counter clockwise.
14. Remove the EGR Adapter and reassemble vehicle components in the reverse order of removal.
15. Add one bottle of TerraDiesel™ Multi-function Fuel Treatment (201250) to the vehicle's fuel tank.
16. After service, reset any engine codes. The vehicle should then be set to run a manual regeneration cycle or if that is not possible, the vehicle should be driven at highway speeds (or in the case of non-highway equipment operated under a load) for approximately 30 minutes. This is necessary to remove all of the cleaning solution from the passages and cooler(s) and to combust any material that has reached the diesel oxidation catalyst (DOC) and diesel particulate filters (DPF).

This should be done as soon as possible.