

Ford 6.4 Liter Diesel EGR System

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

EGR System Consists of:

- **Cold side EGR valve (After EGR cooler) controls exhaust gases for proper emissions control of No_x gases**
- **EGR cooler (controls temperature of exhaust gases to the air intake to the engine)**
- **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.

ZIT13-00815

First steps before any service can be performed.

- 1. Add TerraDiesel Fuel Injector Cleaner to vehicle's fuel tank.**
- 2. Remove plastic engine cover.**
- 3. If engine is hot, the EGR cooler must be cooled – see note in step 8.**

Adapters Required:

201381



Tools Required:

- EGR Tool 201170**

Locations of EGR component:

- **EGR Valve**
- **EGR cooler temperature sensor**

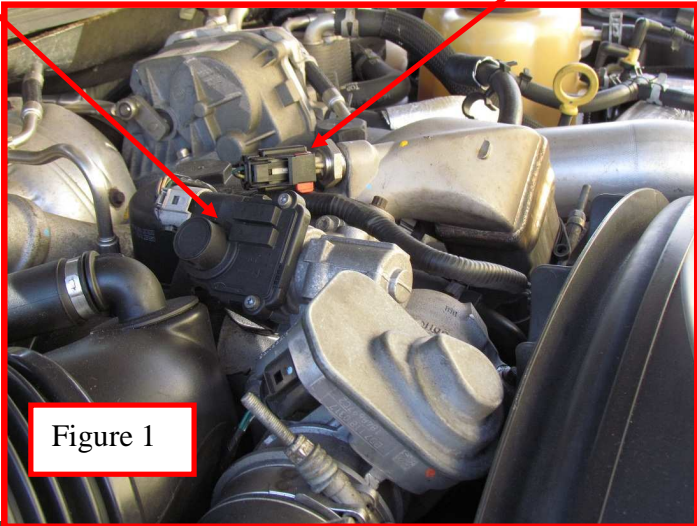


Figure 1

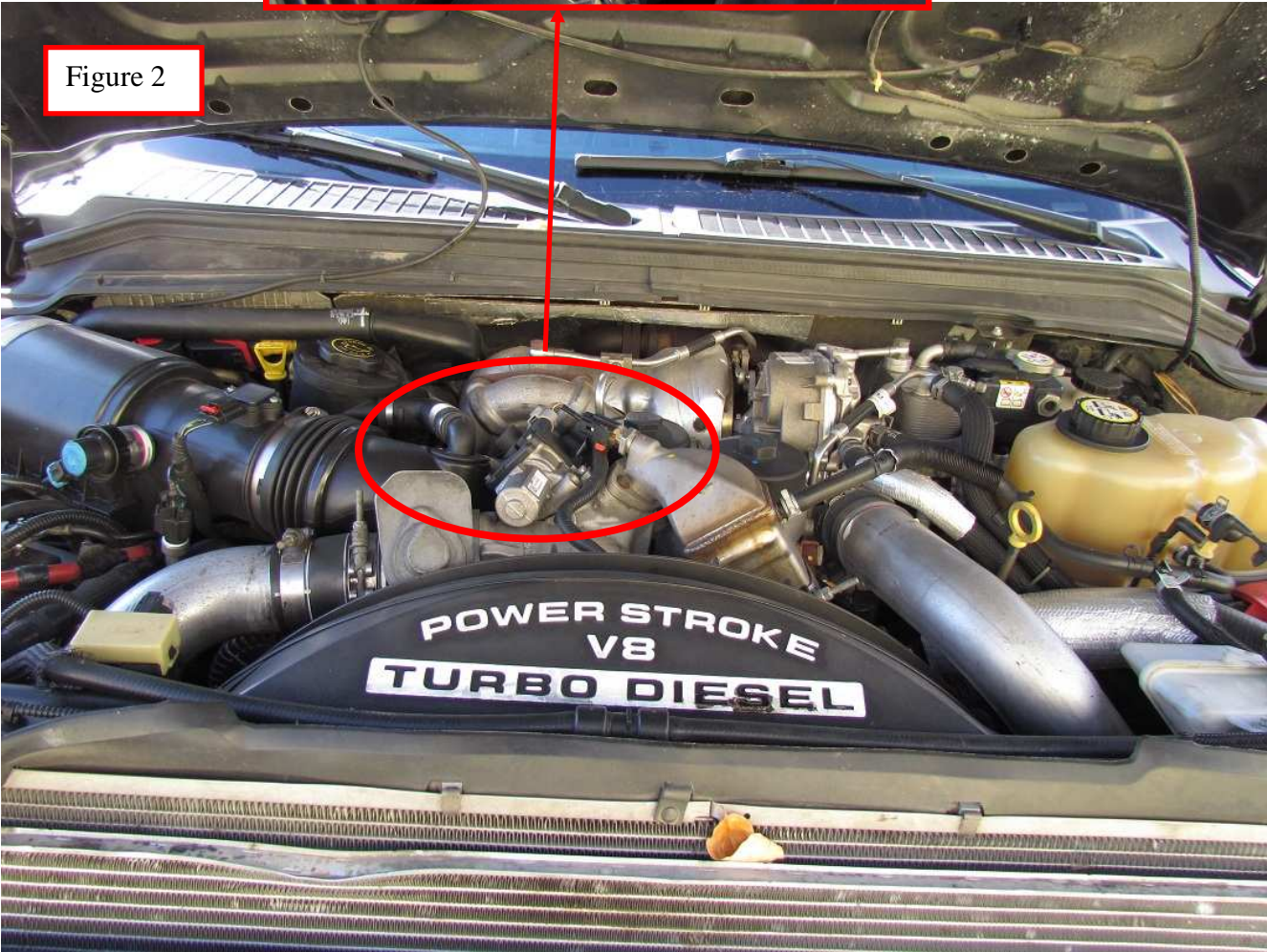
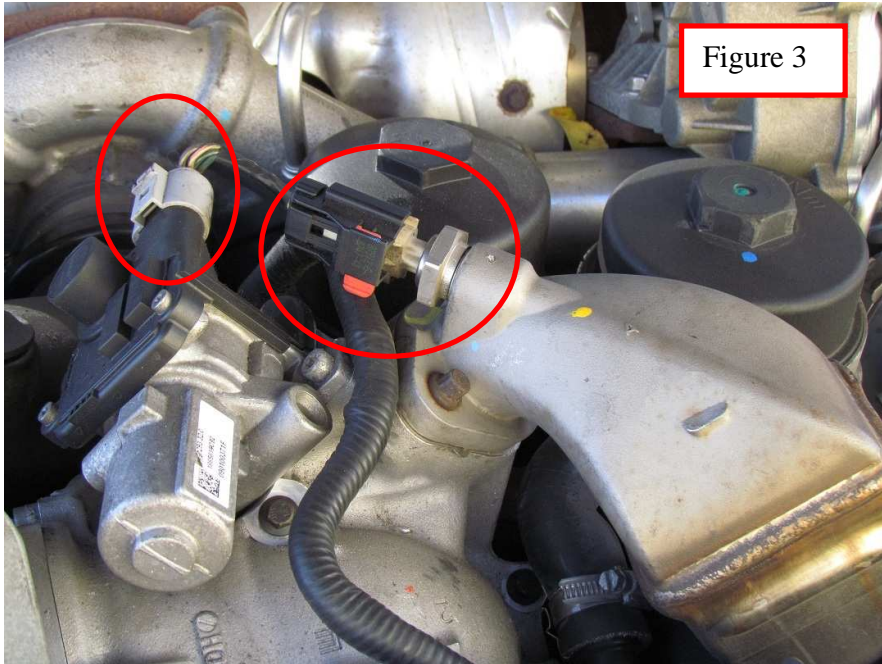


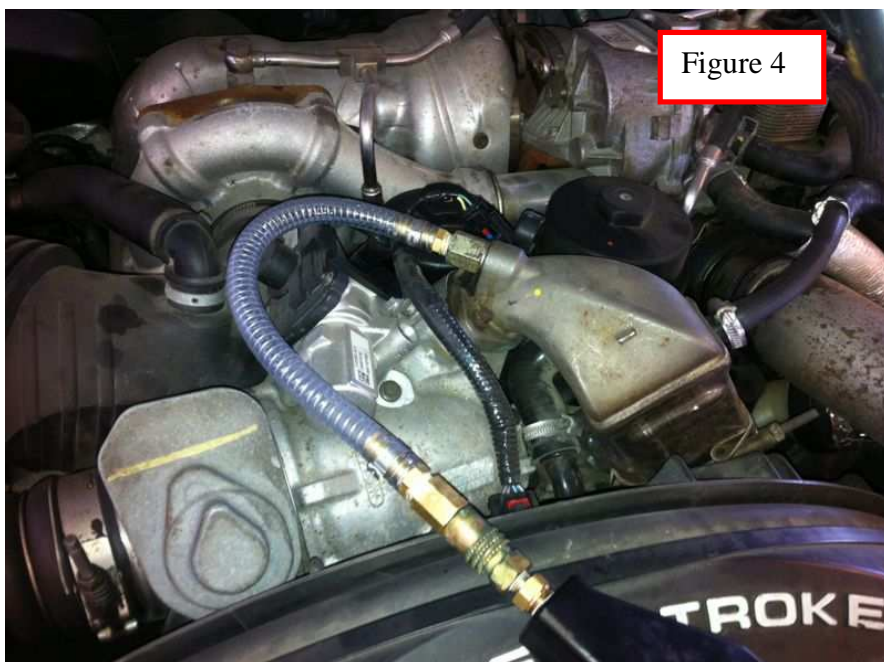
Figure 2

201381 - Ford 6.4 Liter Engine EGR Adapter Instructions

4. Remove EGR cooler temperature sensor (see figure 3). Disconnect EGR valve electrical connector to close the EGR valve.



5. Install 201381 adapter (see figure 4) in place of above EGR temperature sensor.



6. Attach EGR tool to EGR adapter 201381. Ensure air valve and fluid valve are closed – see EGR tool user guide.
7. Unscrew fill cap and fill with 32 oz (950 ml) of EGR Cleaner. For first application or severe coking, 64 oz. may be required.
8. Reinstall the fill cap and hang tool from the hood latch. Connect shop air. Set air pressure on EGR tool to 40-50 psi.

NOTE: If engine is hot, the EGR cooler must be cooled before treatment can start. Before step 9 can proceed, ignition must be off for the EGR system to be cooled. Open EGR tool air valve, keeping the fluid valve closed, and flush cooler with air for 2 minutes.

9. Start vehicle engine.
10. Open air valve on EGR tool, adjust regulator to maintain initial pressure, then open the fluid valve on the EGR tool.
11. 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.
12. Repeat step 10-11 allowing another 1/4 of the fluid to be consumed.
13. Reconnect EGR temperature sensor electrical connector to open EGR valve.
14. Open fluid valve. Continue service until EGR tool is empty.

Note: At any time during the intake service (step 14) you hear a diesel knock sound, turn fluid valve to closed position for 2 minutes. After two minutes then turn fluid valve to open position and continue service.

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

15. Turn the fluid and air valve on tool to the closed position. Turn Vehicle off. Detach shop air line and depressurize the tool by rotating the regulator knob counter clockwise.
16. Remove adaptor and reassemble vehicle components in the reverse order of removal. Wipe off EGR temperature sensor using the EGR cleaning fluid before installing.
17. Add one bottle of TerraDiesel Multi-function Fuel Treatment to vehicle's fuel tank.
18. After service, reset any engine codes and perform a road test to clear any residual fluid from the system. Vehicle may go through Regen cycle during road test.