



EGR Adapter Ford 6.7 L ***Part No. 069-3390***



CAUTION:

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 Nox gases
- EGR cooler (controls temperature of exhaust gases to the air intake to the engine)
- EGR cooler bypass valve (controls exhaust flow temperature to the air intake from the exhaust through the EGR cooler)
- 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 Part# 400-3012 DieselTune™ Max Strength 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.

Tools and Adapters Required:



069-3390



069-3399



500-0170

Locations of EGR components:

- EGR cooler bypass valve vacuum hose
- EGR valve
- EGR cooler outlet pipe with EGR temperature sensor



4. Remove EGR cooler outlet pipe to intake plenum (4 screws), leaving EGR cooler temperature sensor connected. The air filter plenum may be required to be removed for easier access (see figure 4).



Figure 4

5. Install 069-3390 adapter (see figures 5 & 6) in place of above EGR cooler pipe and reinstall the air filter plenum and all its sensors. Ensure the exhaust side of the adapter is installed on the EGR side and the intake side of the adapter is connected to the intake side.

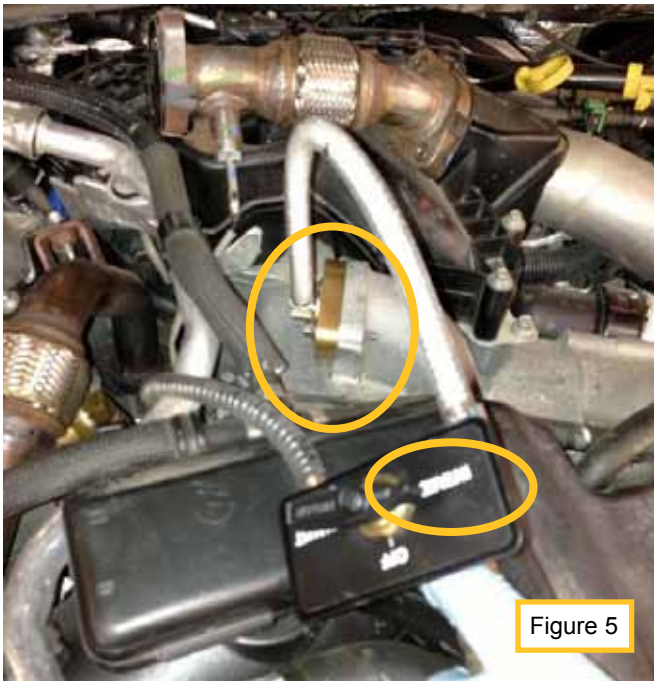


Figure 5



Figure 6

6. Attach EGR manifold 069-3399 to EGR adapter 069-3390. Attach EGR tool to 069-3399. 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 Part# 400-0280 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 on and using a scan tool, command the EGR open. Open EGR tool air valve, keeping the fluid valve closed, turn valve on the EGR manifold adaptor 069-3399 to exhaust and flush cooler with air for 2 minutes.

9. Start vehicle engine. Using the scan tool, command the EGR open. Disconnect EGR cooler bypass valve vacuum hose (see figure 7) this will close the EGR bypass valve.

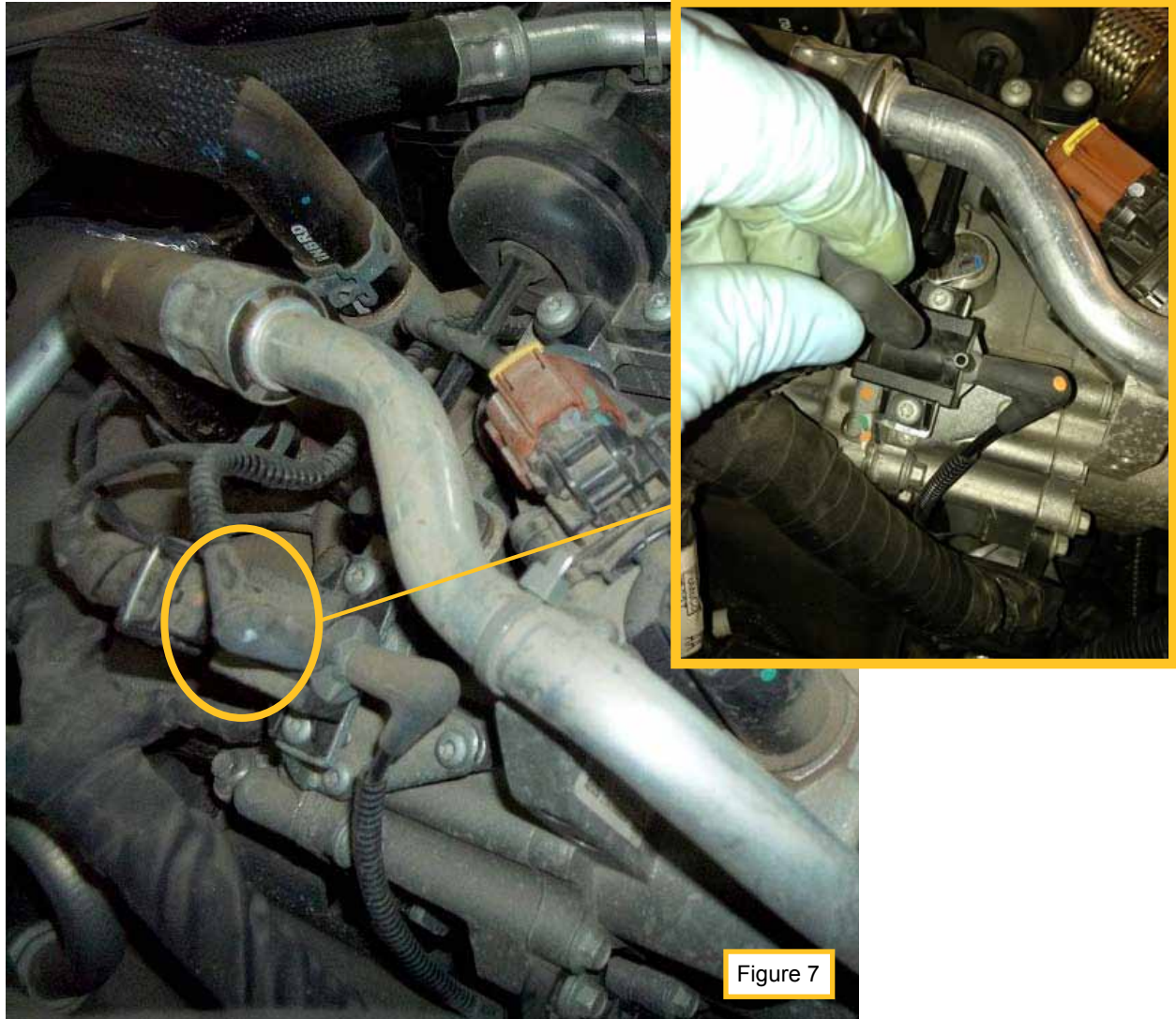
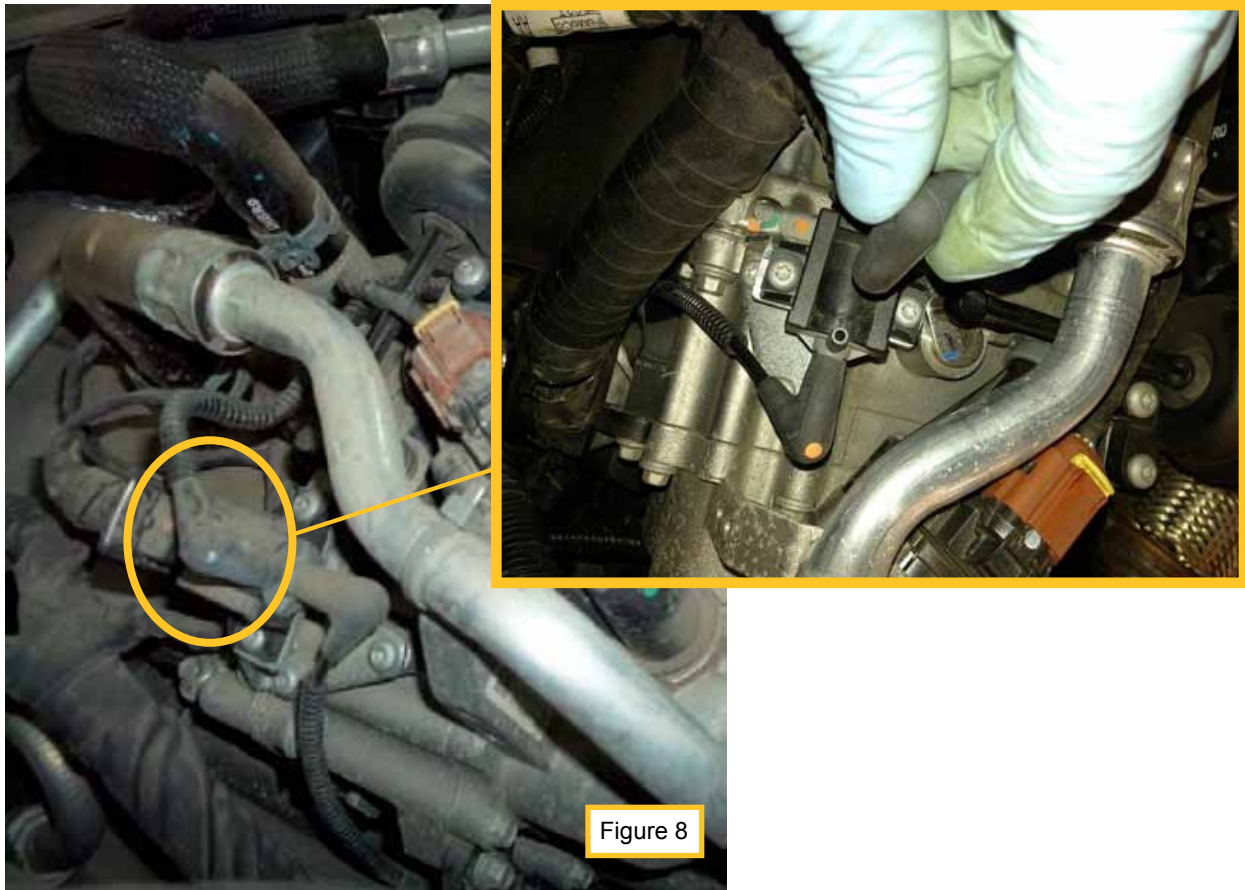


Figure 7

10. Set valve on adapter to exhaust.
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 11-13 allowing another ¼ of the fluid to be consumed. Note: During this step cycle the EGR cooler bypass valve several times by unplugging and reconnecting the EGR bypass valve actuator vacuum hose (see figure 8) several times through out this step. This will allow cleaning of the EGR cooler bypass port.



14. Turn adapter valve to intake, open fluid valve and continue service until EGR tool is empty.

Note: At any time during the intake service you hear a diesel knock sound, turn manifold valve to off for 2 minutes. After two minutes then turn manifold valve to intake 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 adaptors and reassemble vehicle components in the reverse order of removal.
17. Add one bottle of Part# 400-3022 DieselTune™ Complete Fuel Supplement 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 regeneration cycle during road test.

**ISO 9001
CERTIFIED**
ZIM14-01027