



INSTALLATION INSTRUCTIONS

MAKE: Dodge
 MODEL: Diesel Trucks
 YEAR: 1994-1998
 ENGINE: L6-5.9L (td)

Turbocharger & Manifold 46-60060-MA



Parts Included:

- Turbocharger (1)
- Gasket, Exhaust Elbow (1)
- Gasket, Oil Return (1)
- Gasket, Oil Feed (1)
- Exhaust Elbow bolts (5)
- Gasket Set, Exhaust (1)
- Gasket, Exhaust Manifold to Turbo (1)
- Manifold, Exhaust (1)
- Bracket, Water Line (1)
- EGR Block off plate (1)
- Bolt, SHCS: M8x1.25x16 (1)
- Bolt, Hex: M10x1.5x65 (9)
- Nut, Flange: M10x1.5 (4)
- Stud: M10x1.5x50 (2)
- Stud: M10x1.5x37 (4)
- Stud: M10x1.5x95 (1)
- Plug, 1/8" NPT (2)
- Spacer, Steel (10)
- Washer, Flat M8 (1)
- Elbow, Inverted Flare w/Straight Fitting (1)
- Nut, Flange: M10x1.5 (Machined) (4)

Tools Needed:

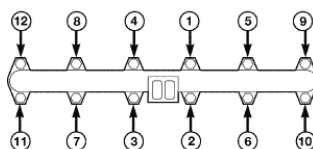
- Torque Wrench
- 11/16" Socket
- 7/16" Socket
- 15mm Deep Socket
- 13mm Deep Socket
- 11mm Deep Socket
- 10mm Deep Socket
- 15mm Socket
- 13mm Socket
- 10mm Socket
- 7/16" Wrench
- 15mm Wrench
- 13mm Wrench
- 10mm Wrench
- 8mm Wrench
- 5/16" Nut driver
- 3/16" Hex Key
- Ratchet
- Extension
- Flat Head Screwdriver
- Gasket Scraper
- Pliers

CAUTION: Allow time for your vehicle to cool down prior to installation. When working on or under your vehicle proceed with caution. Exhaust systems reach high temperatures and may cause serious burns. Wear protective safety equipment; eye goggles and gloves to ensure a safe installation. aFe recommends professional installation on our products.

1. Disconnect the batteries before starting the installation.
2. Remove EGR and EGR Tube (if equipped). Install the block off plate on the intake manifold.
3. Remove air filter housing and air intake tube from the vehicle.
4. Disconnect the intercooler pipe, exhaust downpipe, oil supply & oil drain line from the turbocharger.
5. Remove the four nuts connecting the turbocharger to the manifold and remove the turbocharger.
6. Remove the bolts and turbine elbow from the turbocharger.
7. Remove the oil flow restrictor from the top of the O.E. turbocharger and retain for Step 22.
8. Disconnect the water line clamp and bracket from the exhaust manifold.
9. Remove the 12 manifold bolts and exhaust manifold.
10. Prepare the mating surfaces on the cylinder head for a better seal.
11. Remove the factory turbocharger oil feed line from the oil filter housing. Reverse the line and reinstall with the 90 degree end of the oil feed line onto the oil filter housing. Do NOT tighten oil feed line at this time.
12. Install two (2) of the M10x1.5x37mm studs onto the turbine flange on the new aFe manifold.
13. Install the two (2) M10x1.5x50mm Studs into the top two center bolt holes (cylinder 3 & 4) on the cylinder head.



14. Install the aFe exhaust manifold using the supplied M10x1.5x65mm bolts (9), M10x1.5 flange nuts (3), M10x1.5x95mm stud (1), steel spacers (10), and exhaust manifold gaskets (6). The supplied M10x1.5x95mm stud is placed in the top front hole (cylinder 1). Apply anti-seize to the bolts before installing. Tighten to 32 ft./lbs. using the recommend factory Torque Sequence.





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15. Install the supplied waterline bracket onto the M10x1.5x95mm stud (cylinder 1), over the existing nut. Install a second M10x1.5 flange nut to retain the bracket. The remaining clamps can be installed in the factory location with the factory hardware.
16. If equipped, install E.G.T. probe(s) into the ports on the manifold. If not using the ports, install the supplied 1/8" NPT plugs
17. Clear mating surface of the factory turbine elbow and install onto the back of the aFe turbocharger using the supplied bolts and gasket.
18. Install two (2) of the supplied M10x1.5x37mm studs into the aFe turbocharger mounting flange.
19. Install the aFe turbocharger using the supplied gasket and the four (4) machined flange nuts.
20. Connect the oil drain line to the bottom of the turbocharger using the supplied gasket and tighten the bolts.
21. Lubricate the turbocharger bearings using the supplied oil injector. Spin the compressor wheel by hand to properly lubricate.
22. Install the oil flow restrictor (from Step 7) into the aFe turbocharger.
23. Install the supplied inverted flare elbow onto the oil flow restrictor. Do NOT fully tighten at this time.
24. Connect the oil feed line to the inverted flare elbow. Do NOT fully tighten at this time.
25. Position the turbocharger oil feed line away from heat sources (like the exhaust manifold) and fully tighten all connections
26. Connect the exhaust downpipe and intercooler pipe to the aFe turbocharger.
27. Reinstall the air intake tube and air filter housing.
28. Reconnect the batteries.
29. Double check that all connections are secure.
30. Your installation is now complete. Start the vehicle and verify again that all connections are secure and that you have no leaks. Let idle for 5-10 mins. to allow the aFe turbocharger to properly lubricate before driving.

Note: Inspect and retighten all connections after 100-200 miles.