



DODGE 24 VALVE 3-PIECE EXHAUST MANIFOLD INSTALLATION INSTRUCTIONS

1. Remove air cleaner hose from the vehicle and disconnect the water line brackets from the manifold.
2. Next, disconnect the turbo from the stock manifold by removing the 4 nuts, using a 15mm socket or wrench (NOTE!: It is not necessary to remove the turbo from the engine compartment, but it can be done for easier installation.)
3. Once the turbo is disconnected, remove the bolts on the stock manifold using a 13mm socket or wrench.
4. After the stock manifold is removed, sand the head and turbo surfaces for a better seal.
5. Before assembling the ATS 3-piece exhaust manifold, the use of anti-seize on the ball joints is required. They come already coated with anti-seize from the factory.
6. After anti-seize has been applied, there are two methods that can be used to assemble the manifold. The first you will need to heat the center section in an oven to 500 degrees F for 30 minutes. The end sections will slide into the center. (NOTE: For easier installation, put the manifold together until center distances are the same, use the old manifold as reference). Be sure to use a flat table to check surface on manifold and adjust as needed to make flat. For the second method, you will need a block of wood (preferably a 12x6 or so), lay the block of wood on the ground. Put the center and an end piece together and pound the pieces together (making sure to line up the mounting surface) against the wood. You will use the weight of the manifold to pound itself together. Put the second end into the center piece and repeat. Check every couple of hits to make sure that you line up the mounting surfaces and holes. Again, you can use the old manifold as a reference.
7. Remove the 4 turbo studs from the stock manifold and screw them into the ATS 3-piece manifold.
8. Install the 3-piece manifold using the allen head bolts and washers supplied in the kit into the center section only, use the stock bolts and spacers for the end pieces. Tighten the allen head bolts with an 8 mm allen head socket. **IMPORTANT:** Make sure the gaskets are in position between the head and manifold. Use of new gaskets is recommended for replacement but is not needed unless old gaskets are damaged or burned. Tighten all bolts to 35 foot pounds or torque in a clockwise manner starting from the center section.
9. After the manifold is tight, reconnect turbo to the manifold and tighten nuts.
IMPORTANT: 24-valve manifold assembly requires you to drill out the tapped holes in the *turbo* for the studs to go through. This is done with a 7/16" drill bit.
10. After turbo and manifold is complete, reinstall air cleaner hose and water hose brackets (new bracket supplied with 24 valve manifold only)