

Turbocharger Installation Instructions

IMPORTANT: Neither the turbine or compressor housing are adjustable.
DO NOT LOOSEN OR ATTEMPT TO RE-ORIENT EITHER HOUSING.
DAMAGE TO INTERNAL MECHANISM MAY RESULT.

CAUTION: Failure to follow these instructions can result in premature turbocharger failure and warranty denial.

1. GENERAL

- A. These instructions apply to all Garrett AVNT (tm) turbochargers.
- B. When installing a replacement turbocharger, be certain there is no foreign material in the air cleaner and ducting to the compressor inlet or exhaust manifold. Small or soft objects will cause extensive damage to the turbocharger wheels.
- C. Take care to avoid getting dirt or debris into the turbocharger openings.

2. INSTALLATION AND PRE-OILING OF TURBOCHARGERS

- A. Remove old gasket from exhaust manifold mounting flange. Inspect flange for erosion and flatness and install a new gasket, if used.
- B. Inspect oil drain and apply lines for kinking, clogging, restrictions and other signs of deterioration.
- C. Install turbocharger on engine using all new gaskets and "O" rings (when needed), but do not connect the compressor inlet and oil supply line. Tighten the nuts or bolts attaching the turbocharger to the exhaust manifold to the torque values given in the shop manual. Use of a high temperature lubricant on these threads is recommended.
- D. Fill the oil inlet hole with clean engine oil and spin the compressor wheel several times to coat the bearing with oil. Refill the oil inlet hole and connect the oil supply line.
- E. If the compressor wheel cannot be freely spun by hand or if there is any indication of rubbing or scraping, determine the reason before starting the engine. Correct the pipe or hose from the outlet of the air filter to the compressor inlet.
- F. Check lubricant level in engine crankcase.
- G. Prime the oil filter if it was changed.
- H. Connect wiring harness AVNT control wire to the solenoid valve on the turbocharger as described in the service manual.

3. START ENGINE

- A. Start the engine and allow it to run at idle speed for 3 to 4 minutes before accelerating.
- B. CHECK FOR OIL LEAKS.