

Turbocharger installation checklist

Before Installation

- Diagnose and solve the reason for the failure of the old turbocharger (possibly a fault on or around engine)
- Compare turbocharger model number with the engine specifications and the turbocharger manufacturer's model number
- Check for proper engine cooling
- Check oil supply, make sure oil return from the turbocharger to the crankcase is clear
- Intake, charge air and exhaust area:
 - Check for functional capability
 - Clean out any contamination by foreign bodies or fluids and solve why they were present
 - Clean any undamaged air supply hoses and pipes
- In the case of liquid-cooled turbochargers: check for adequate coolant flow
- Check whether an adjustment of the housing position is necessary
- Torque fasteners as specified by the engine and vehicle manufacturer
- Make sure the flanges and threads are free of damage, debris and wear
- Use only brand new gaskets and seals
- Change engine oil and filter as specified by the engine and vehicle manufacturer

During Installation

- Before securing the oil supply line the turbocharger should be filled with new engine oil through the oil inlet hole, while slightly turning the rotor manually
- Attention paid to correct handling

After Installation

- Idle for approx. 120 seconds after engine is running
- During idling: All connections (air, exhaust, water and oil) checked for firm seating, tightness and free of leaks, gas-tightness checked with soapy water if necessary
- Monitor oil pressure
- After 20 operating hours or 650 miles, check all relevant connections again for firm seating, tightness and free of leaks

Important note for car repair shops:

The turbocharger may only be installed by skilled personnel. Incorrect installation, use and operation of the turbocharger or modifications to it can cause damage to the turbocharger and the engine. The manufacturer's specifications as well as the installation and start-up instructions must be followed. No liability for material defects shall be accepted if a turbocharger is installed that does not comply with the engine specifications or if the installation and fitting instructions have not been followed. Visible faults must be reported immediately.



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