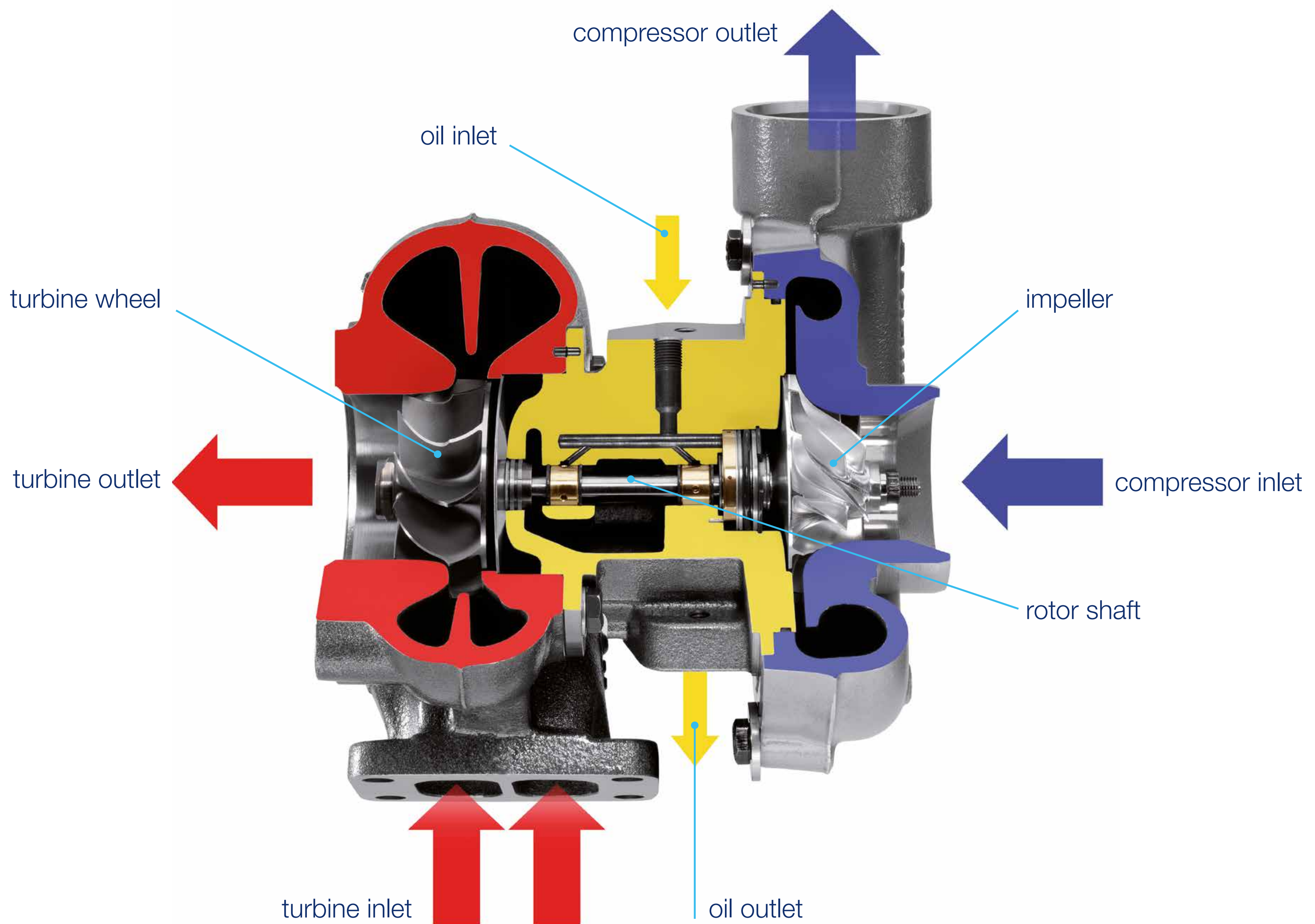


The MAHLE turbo check



Before installation

- Diagnose and eliminate the cause of failure of the old turbocharger (possibly defects in the engine and engine area).
- Compare the turbocharger model number with the engine specifications and/or the model number of the turbocharger manufacturer.
- Make sure the engine ventilation is working properly.
- Ensure the oil supply and that the oil can flow back freely from the turbocharger to the crankcase.
- Intake, charge air, and exhaust gas areas:
 - Check in working order
 - Eliminate any contamination due to foreign objects or liquids
- Ensure the absolute cleanliness and integrity of the air lines connected to the turbocharger.
- For liquid-cooled turbochargers: ensure ventilation and the coolant supply.
- Check whether the housing needs to be repositioned.
- Observe assembly torques as per the engine and/or vehicle manufacturer specifications.
- Make sure that the flange and thread are free of damage and wear.
- Only use brand-new sealing elements that are an exact fit.
- Replace the engine oil and oil filters as per the engine or vehicle manufacturer specifications.

During installation

- Before mounting the oil feed line: fill the turbocharger with fresh engine oil through the oil feeder hole, while slightly turning the rotor by hand.
- Change the boost pressure if necessary.
- Ensure proper handling.

After installation

- After starting the engine: idle for approx. 120 seconds.
- While the engine is idling: check all connections (air, exhaust gas, water, and oil) are properly secured and leaktight, possibly use soapy water to test for gastightness.
- When the oil pressure builds up, rev and run the engine.
- After 20 operating hours or 1,000 km: check that all of the relevant connections are properly secured and leaktight.



Important information for workshops

Turbochargers must only be installed by trained technicians. Improper installation, use, operation, or modification of a turbocharger may cause damage to the turbocharger or engine. Observe the manufacturer specifications and the installation and commissioning instructions. Liability for material defects is excluded if a turbocharger that does not comply with the engine specification is installed or if the installation or assembly instructions are not observed. Obvious defects must be reported immediately.

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