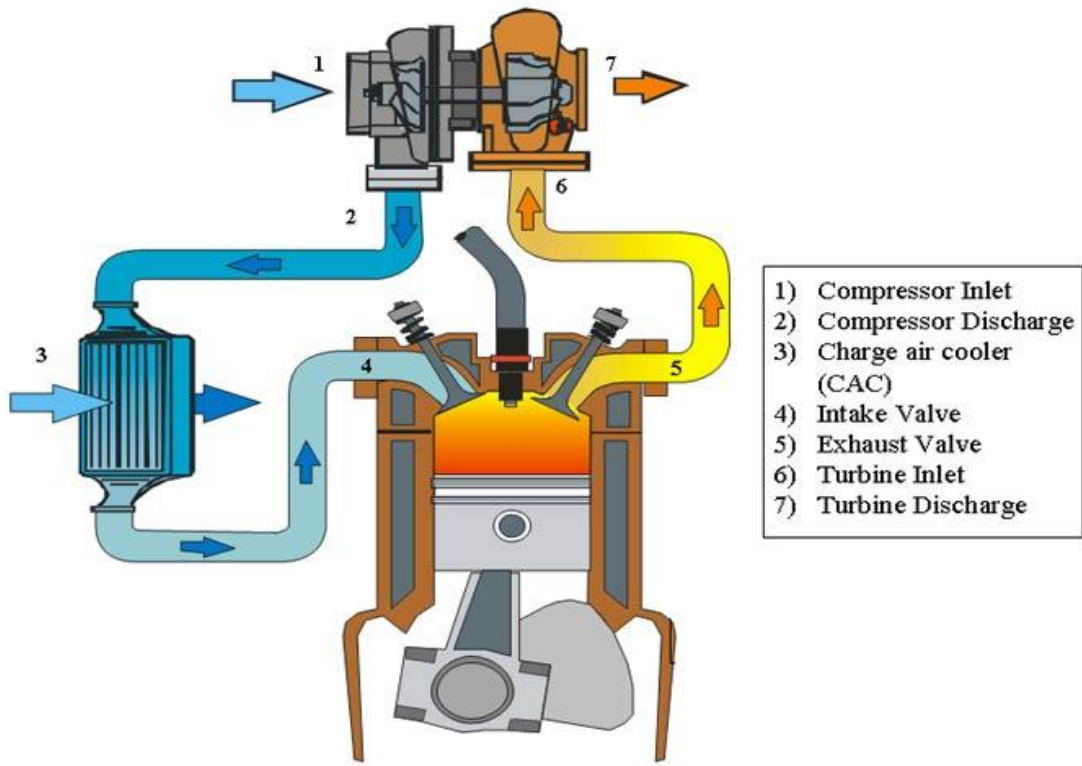
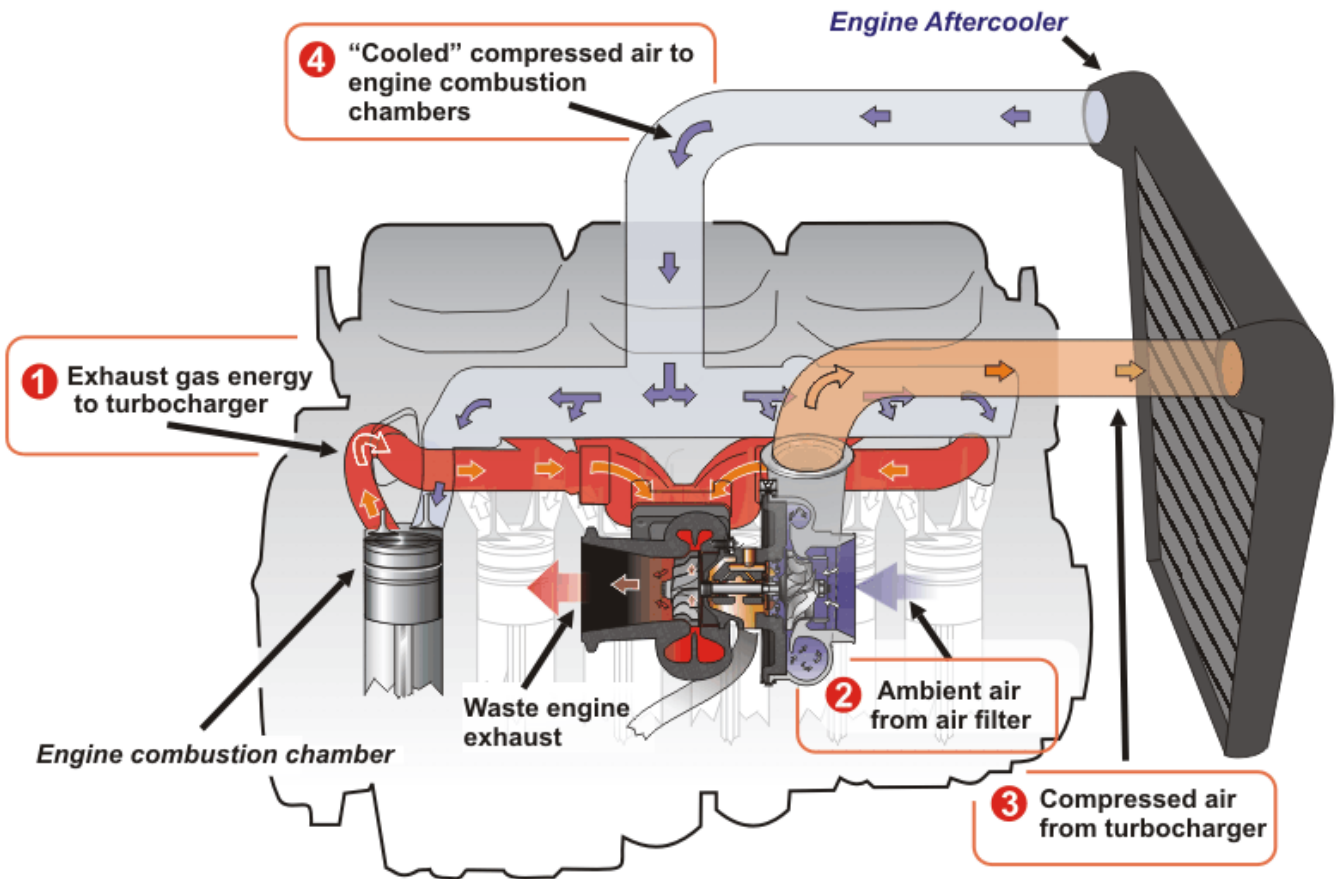


TURBOCHARGER FAILURE EXTERNAL PARTICLE ENTRY

Typical Commercial Diesel Turbocharged Engine System



COMPRESSOR WHEEL EXTERNAL PARTICLE ENTRY DAMAGE



Compressor damage is caused by objects being sucked into the air intake.

Causes of external particle entry damage :

- Materials sucked into the air intake system due to damaged, poor quality or missing air filter.
- Damaged / Distorted hoses allowing small particles to enter into the air intake system.
- Gasket material entering into the air intake system.
- Nuts / bolts / washers / rags or other materials left inside the air intake pipe after service.
- Fragments remaining inside the system from a previous turbocharger failure.



Preventing external particle entry failure :

- ✓ Check and ensure all air hoses are in good condition and free from blocks, distortions or loose items.
- ✓ Always use new gaskets of good quality to create perfect seals.
- ✓ Always use genuine and high quality air filter and fit them correct.
- ✓ Check and ensure that there are no fragments remaining in the air system from the previous failure, before the fitment of the replacement turbocharger.

TURBINE WHEEL EXTERNAL PARTICLE ENTRY DAMAGE



Turbine damage is usually caused by engine components, such as injector tips or valve train parts.

Causes of external particle entry damage :

- Broken engine components like injector tips, valves or fragments of damaged piston entering through exhaust manifold.
- Gasket material entering into the air exhaust system.
- Nuts / bolts / washers / rags or other materials left inside the exhaust manifold after service.
- Fragments remaining inside the system from a previous turbocharger failure.

Preventing external particle entry failure :

- ✓ Always use new gaskets of good quality to create perfect seals.
- ✓ Check and ensure that there are no fragments remaining in the exhaust system from the previous failure, before the fitment of the replacement turbocharger.

TURBINE WHEEL EXTERNAL PARTICLE ENTRY DAMAGE



Turbine damage is usually caused by engine components, such as injector tips or valve train parts.

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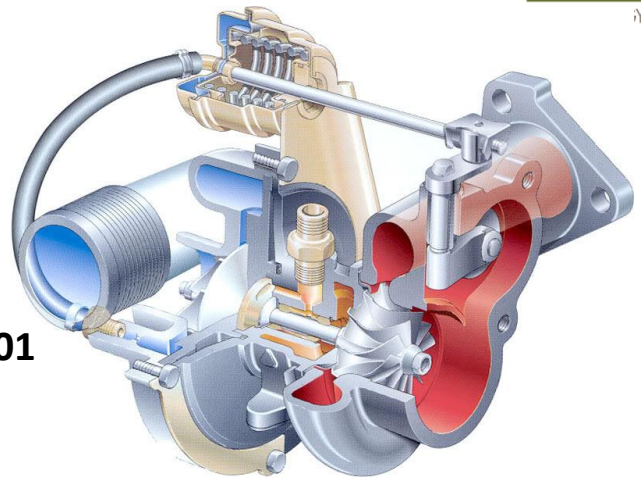
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- ✓ Always use new gaskets of good quality to create perfect seals.
- ✓ Check and ensure that there are no fragments remaining in the exhaust system from the previous failure, before the fitment of the replacement turbocharger.

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Service Centers:

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