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TECHNICAL REPORT

Repair set for air compressors
of industrial vehicles



introduction

Ajusa develops a **new product line** for industrial vehicle air compressors, the repair gasket set:



The compressors that normally mount this type of vehicles are of **positive displacement and of alternative** movement that can be of one or several stages. Its operation is based on the displacement of one or several pistons through the cylinders moved by the crankshaft.

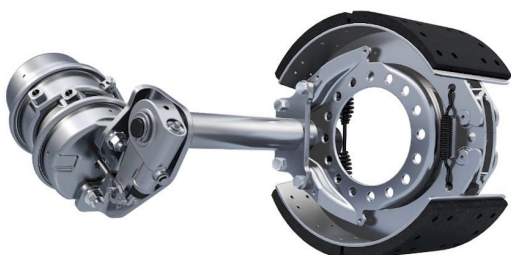
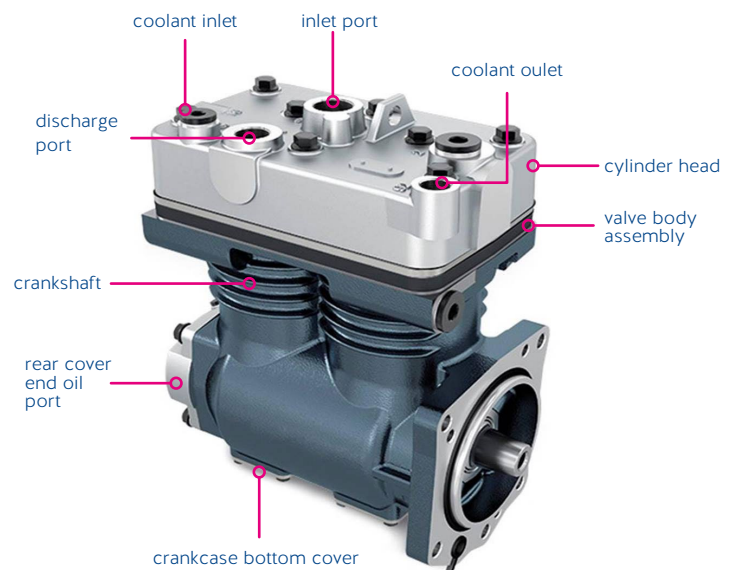
The air is then cooled, dried to remove moisture and oil, and finally stored in a tank for later use.

The compression of the air generates a large amount of heat, which causes the expansion of its components. That is why **guaranteeing tightness** in these circumstances is of vital importance.

what is an air compressor?

In an industrial vehicle (truck, bus, etc.) there are different elements that work through a pneumatic system, such as the suspension, the transmission or the **braking system**.

The latter is so important because it is responsible for exerting the **necessary pressure** on the brake shoes to stop the vehicle.



why is a gasket set necessary?

There are several reasons that can lead us to the **need to repair the air compressor**, such as:

- Oil pressure loss.
- Compression loss towards the coolant circuit.
- Coolant leak.
- Breakage of any of the valves or other components.
- Lubrication failure.
- Wear of crankshaft bearings or piston rings.

In these cases it will be necessary **to replace all the gaskets** and valves with new ones to guarantee their correct operation.

what components our repair sets have?

Ajusa has compressor repair sets for **different industrial vehicles**. These games have the BCXXXXX nomenclature, and their composition is as follow:

- Head gasket
- Valve support sheets
- Laminar intake valves
- Valve centering pins
- Upper/lower valve support gasket
- Laminar exhaust valves
- Crankshaft lower cover gasket
- Crankshaft bearing O-ring
- O-ring connection flange to the motor

