



AIR-CONDITIONING COMPRESSORS | **ASSEMBLY AND COMMISSIONING** | **USER GUIDE**

ASSEMBLY AND COMMISSIONING

Removing the compressor and assessing damage

- After emptying the refrigerant via the air-conditioning servicing unit, remove the faulty compressor, remove the oil drain screw from the compressor and allow the oil to drain
- Check the oil (colour, etc.) and check for contamination
- Then determine the cause of the damage

Flushing the air-conditioning system

- Make sure that all impurities and foreign objects are removed from the refrigerant circuit during the flushing process. Do not flush compressors, dryers and expansion valves. Dryers must always be replaced
- As a general rule, if compressors are damaged, the fixed throttle must be replaced. The expansion valve must be checked for dirt and corrosion and replaced if necessary
- If the compressor has been damaged and chips have built up, the fixed throttle and/or expansion valve must be replaced as a general rule

Filling with compressor oil

- The compressors supplied are used in a wide range of vehicles and air-conditioning systems. For this reason, it is vital to check the oil filling quantity and viscosity before fitting the compressor. To do this, the new replacement compressor must be emptied completely via the oil drain screw
- The new compressor is then re-filled with half of the quantity of oil specified by the vehicle manufacturer
- Prior to installation, the compressor must be rotated by hand approx. 8-10 times so that the oil can distribute evenly in the compressor

Notes

- The oil removed from the compressor must not be added back into the component, as it can quickly absorb moisture
- Please always use fresh oil of the highest quality and of the correct type and viscosity
- Re-establish the refrigerant circuit after performing the repairs and evacuate the circuit for at least 60 minutes
- Add the second half of the oil quantity specified by the vehicle manufacturer via the air-conditioning servicing unit
- Add the correct amount of refrigerant. The compressor must only be operated with refrigerant R134a
- Make sure that the drive belt is aligned during assembly

Commissioning

- Commission the air-conditioning system after filling the unit
- Start the engine with the compressor switched off
- Set the compressor to the lowest possible power level: "Econ" or "A/C off" operating mode
- Wait until the idling speed has stabilised
- Switch on the compressor and operate the system at idling speed for at least two minutes
- Check the pressures in the refrigerant circuit using an air-conditioning servicing station
- Switch off the engine

