Retrofit Sets

General points

The European Parliament has decreed (Gazette no. 2037/2000) that conventional refrigerant (R12) must be replaced by chlorine-free refrigerant (R134a) from 01.01.2001 onwards whenever air conditioning systems have to be opened for maintenance or repair work following this date. A decree by the German Ministry of the Environment made it necessary to replace conventional refrigerant (R12) by chorine-free refrigerant (R134a) from 30.06.1998 onwards. This is always the case when the refrigerant cycle has to be opened for maintenance or repair work on the air conditioning system. All the materials (adapters, oils, labels) required for conversion can be found in the *Behr Hella Service* air conditioning range.

How it works/Requirements

- The mineral oil used for R12 systems has to be replaced by synthetic oil (PAG, PAO).
- A new dryer suitable for R134a has to be installed.
- Old O-rings have to be replaced by new ones which are compatible with R134a.
- Adapters must be fitted to the existing service connections. This prevent the system being filled with R12 again.
- The conversion work must be documented by a service label on the vehicle.

Installation situation

The installation situation differs from one vehicle to another so that in some cases the work can even take up to a few hours.
Before conversion work is started, the refrigerant has to be suctioned off using a service station. This prevents any refrigerant from escaping directly and causing frostbite or environmental damage.
After installation the air conditioning system has to be

evacuated to remove all humidity particles from the refrigerant cycle. Subsequently the system can be refilled with the amount of refrigerant specified by the manufacturer. The conversion procedure is described exactly in the Technical Information sheet "R12/R134a conversion".