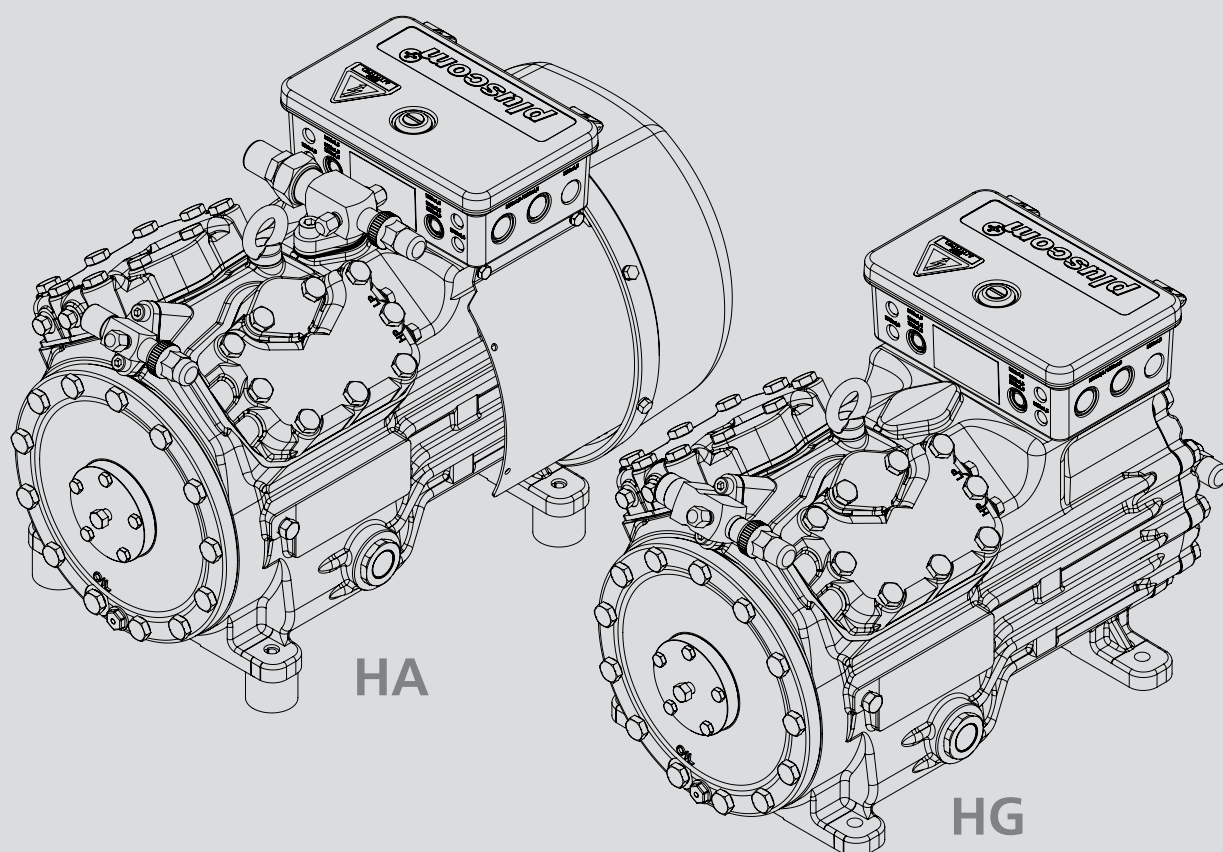




Bock HG12P/e, HG(HA)22P/e, HG(HA)34P/e

Repair instructions electric motor

09632-04.2024-Gb

Translation of the original instructions

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1 Liability and Warranty

- Liability and the manufacturer's warranty are excluded if
- alterations and functional modifications have been carried out
 - original spare parts have not been used.

2 Safety Information

Target group for this repair information

- Work on the compressor may only be carried out by persons whose technical training, skills and experience along with their knowledge of pertinent regulations and documentation means that they are capable of assessing the work to be carried out and detecting any possible dangers.
- A specialist can mean a refrigeration technician for example. Note that electrical work must only be carried out by a qualified electrician. Alternatively, on a country-specific basis, persons who have undergone electrotechnical instruction and who have proof of their qualification are also permitted to carry out the work.



- **DANGER!** This symbol refers to instructions for avoiding direct severe dangers to persons.



- **DANGER!** This symbol refers to instructions for avoiding direct severe dangers to persons or systems by electrical current.



- **WARNING!** This symbol is used to indicate that inaccurate compliance or total failure to comply with the instructions could cause injury to persons or damage to the compressor or refrigerating plant.



- This symbol is used to indicate that parts with refrigeration-machine oils (for oil types see compressor name plate) should be moistened prior to installing.



- This symbol indicates the required tightening torque for the screw.

Important prerequisites



DANGER

Risk of electric shock

- ▶ Before you carry out any repair work, disconnect the compressor from the electricity network.
 - ▶ Turn the main switch to "O" (OFF) and secure the main switch against an unauthorised restart.
 - ▶ Before starting any work, ensure that there is no voltage, then earth and short-circuit.
 - ▶ Cover or cordon off neighboring live parts.
-



WARNING

The heavy weight of the compressor can be potentially dangerous.

Use all the seals included in the kit.

3 Disassembly



WARNING

Ensure that the compressor is depressurised before starting work.

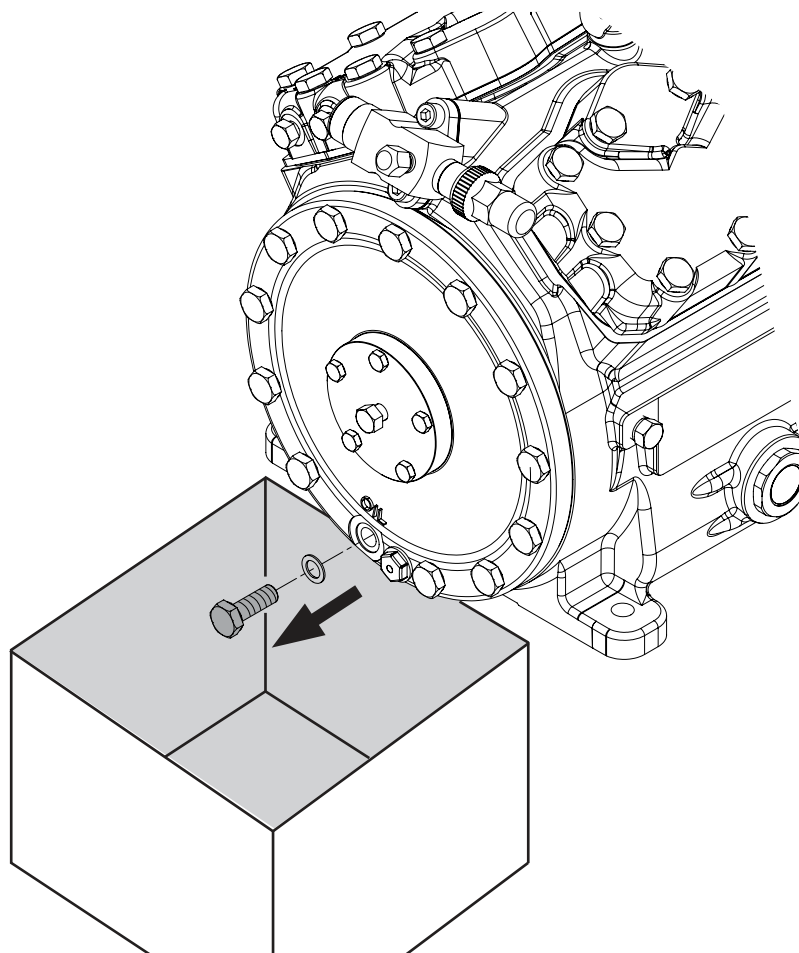
3.1 Draining the oil



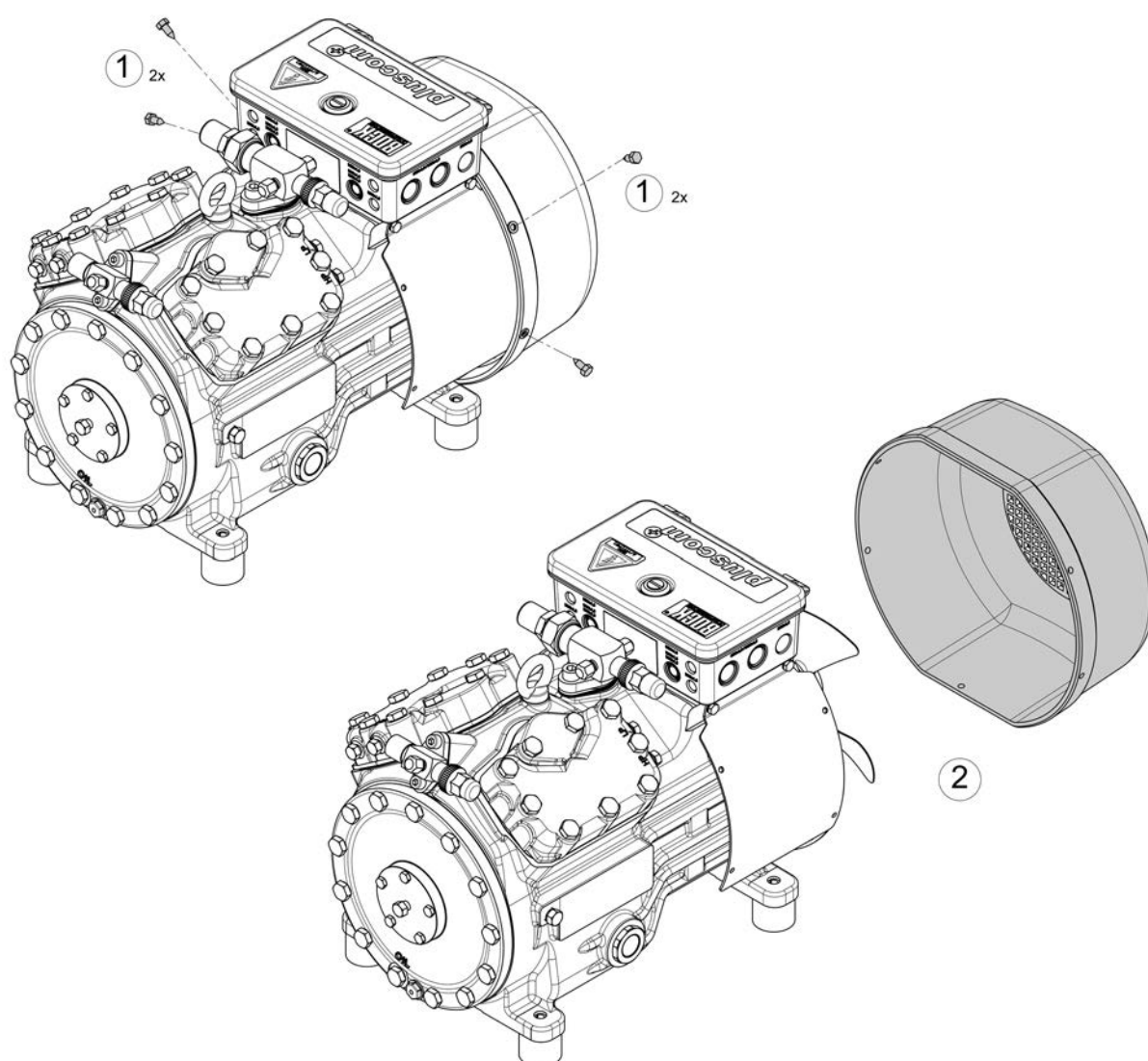
NOTE

Do not dispose of oil in domestic waste.

- Dispose of the old oil in accordance with the environmental regulations and observe national regulations.
-



3.2 Removing the air guide hood (only for HA)

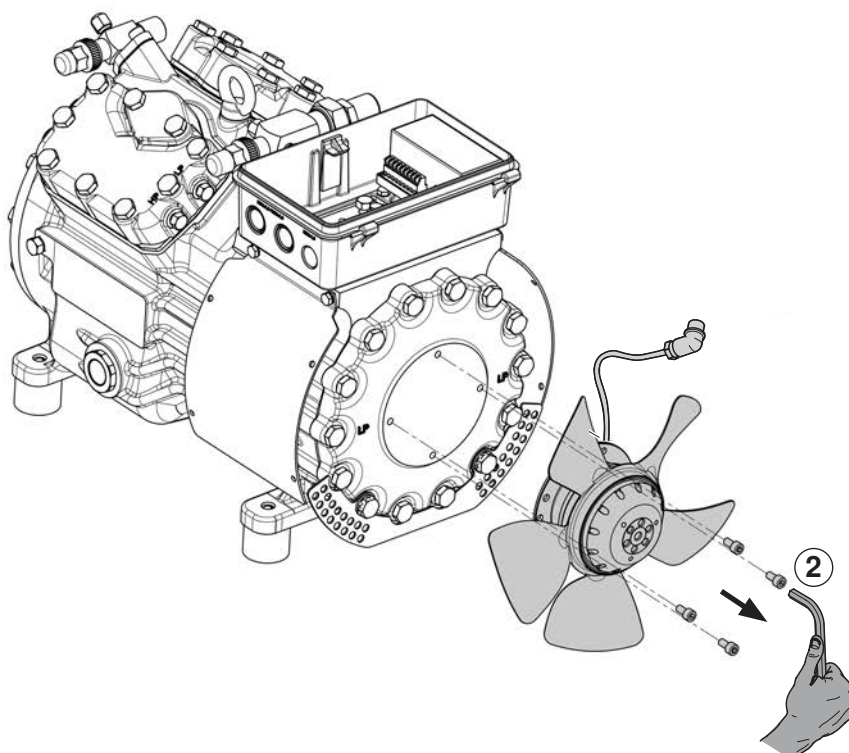
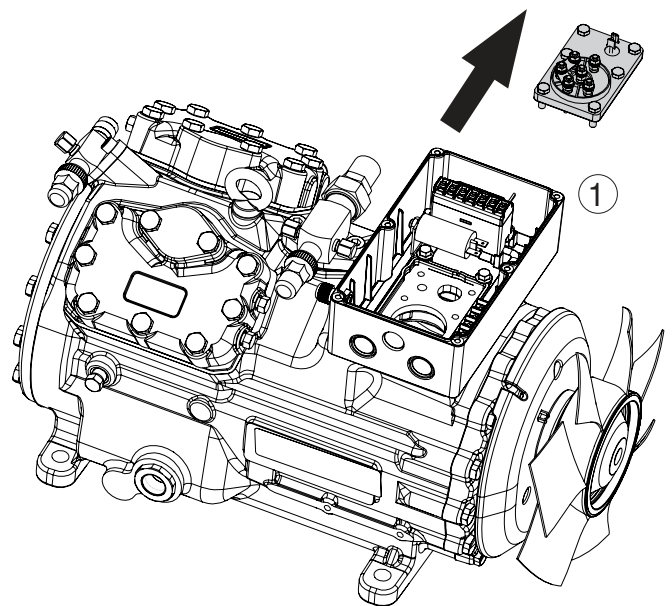
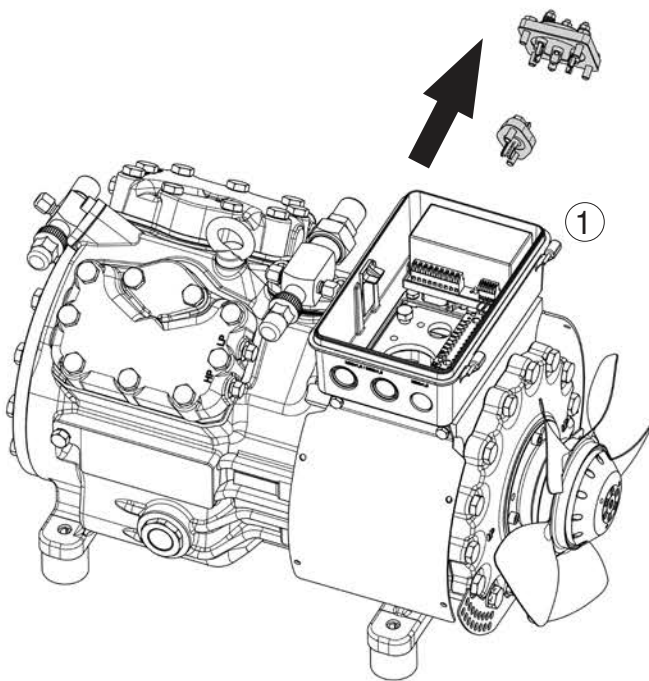


3.3 Disconnecting the electrical connections

- **Do not damage any cables and components.**
Damaged parts must be repaired or replaced immediately.
- Remove the terminal board and, if available, the PTC terminal board.
- Remove the fan (only for HA).

Up to design key 056

From design key 057



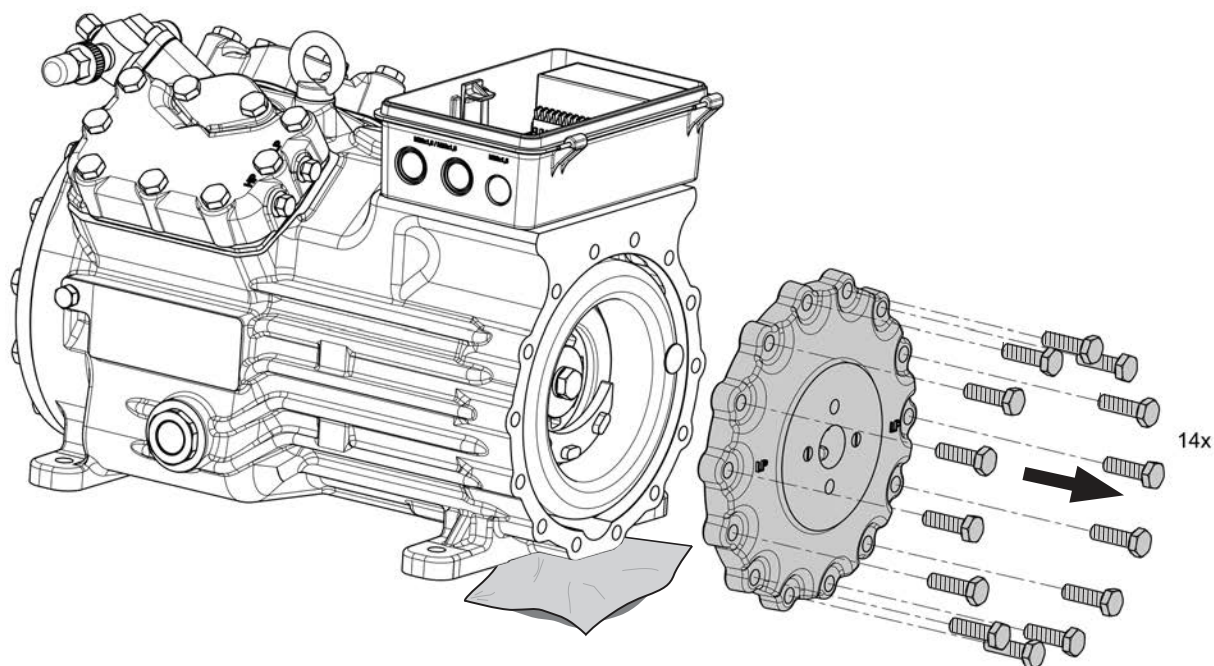
3.4 Removing case cover

**WARNING**

The heavy weight of the compressor and parts can potentially be dangerous; risk of falling, danger of crushing.

► **ATTENTION! The residual oil flows out when the case cover is removed.**

Lay an absorbent material under the area and dispose of it in accordance with the environmental regulations.



3.5 Removing the stator

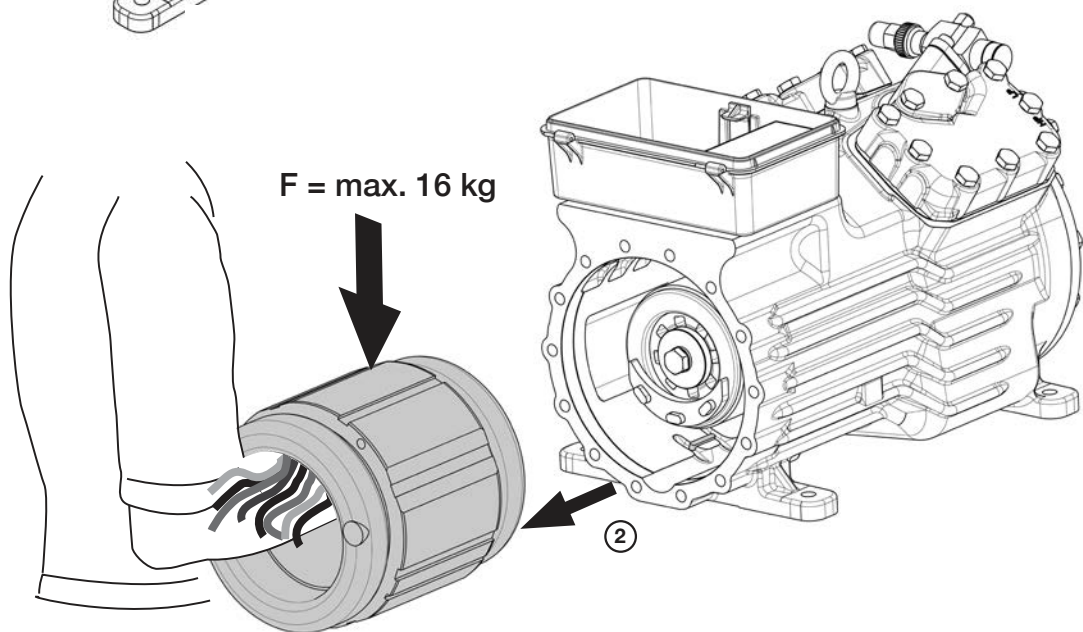
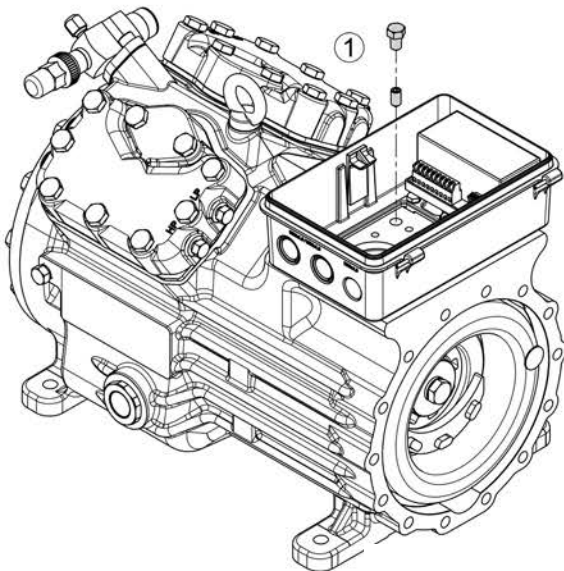


WARNING

The heavy weight of the stator can potentially be dangerous; risk of falling, danger of crushing.

- ▶ Take appropriate measures to provide a secure location for the stator. Prevent inadvertent rolling.

- Remove the locking screw and the stator screw underneath it.
- **Do not damage any cables or components.** First remove the motor cables from the compressor housing and then carefully pull out the stator.



4 Installation

We recommend cleaning the inside of the case before the installation.

There must not be any particles and dirt in the compressor.

To assemble, reverse the order of the steps. Note any particular features such as observance of different torques.

4.1 Connecting the stator to the motor housing

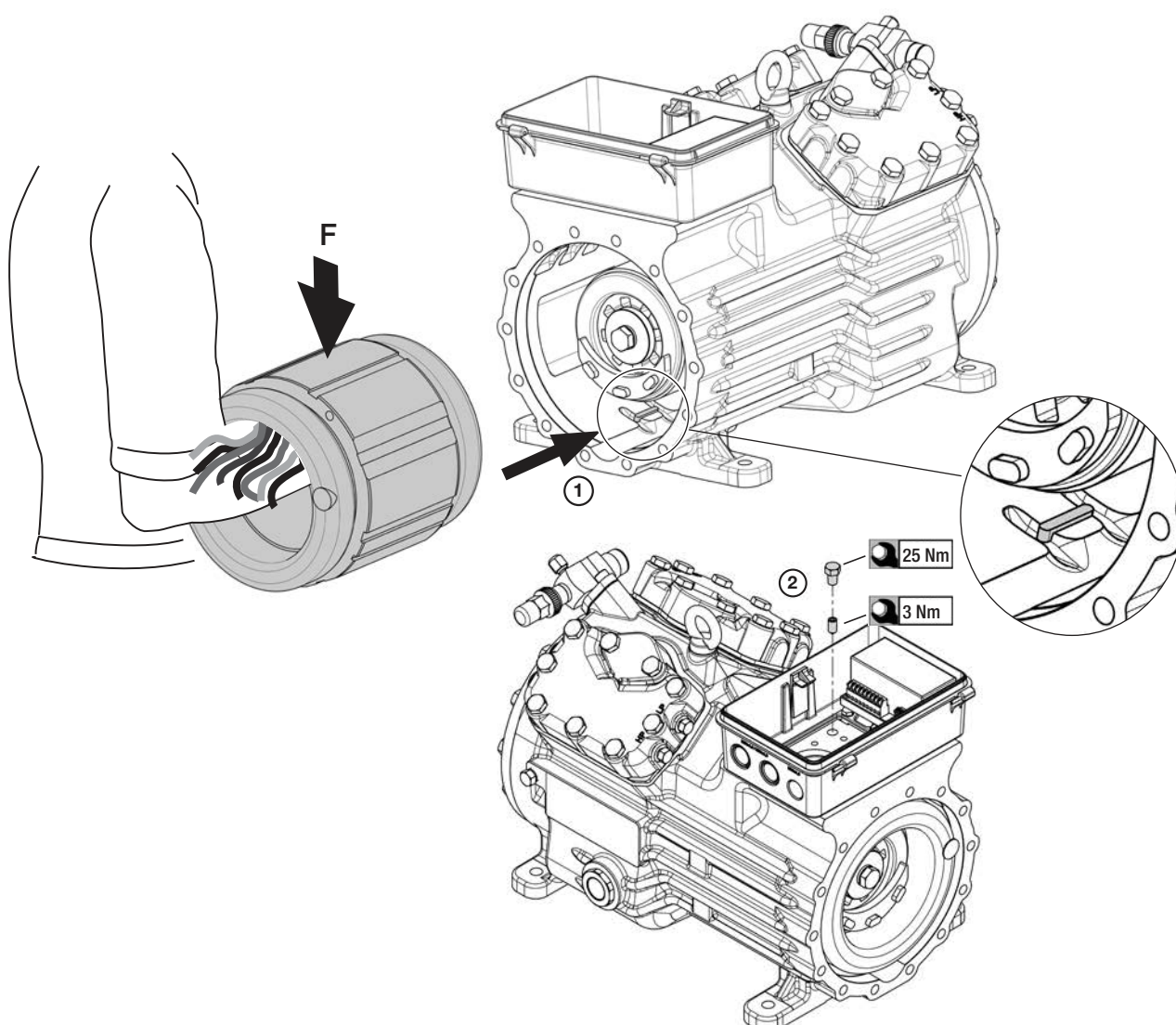


WARNING

The heavy weight of the stator can potentially be dangerous; risk of falling, danger of crushing.

- Note the direction of the feather key — stator.
You must align the parts in order to install them.

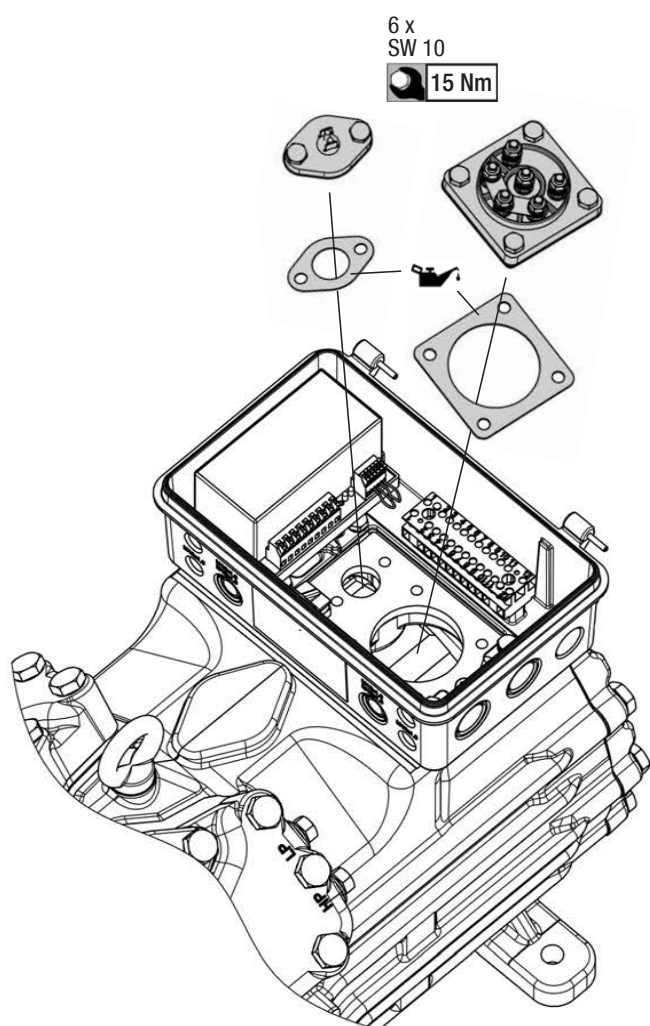
- **Do not damage any cables and components.** Position the stator in the engine housing as far as it will go.
- Screw in the stator screw. **The hardening time of the thread coating is 6 hours. The stator screw must only be used once.**
- Screw in the locking screw.



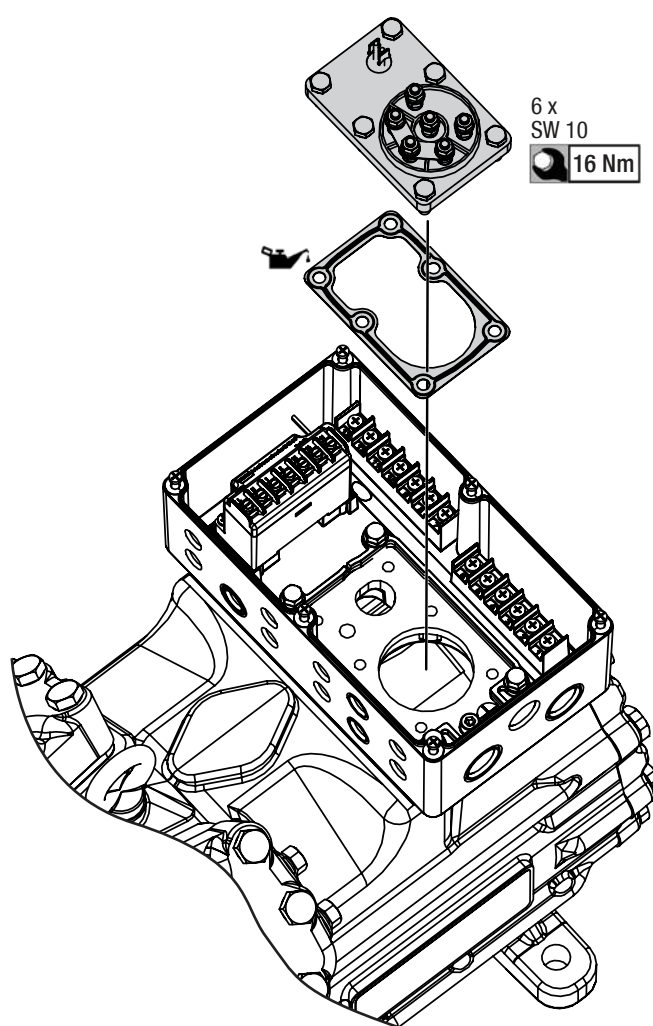
4.2 Installing the terminal board and PTC terminal board

- Slightly oil the new seals.
- Connect the electrical connections as per the illustration on page 11.

Up to design key 056

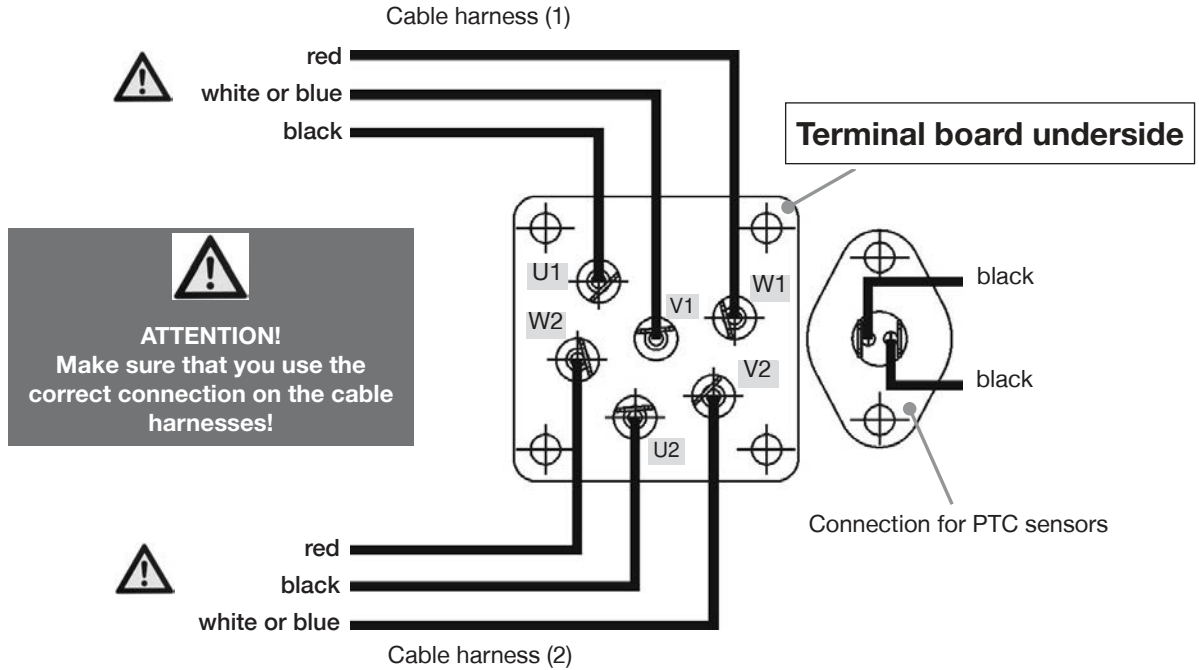


From design key 057

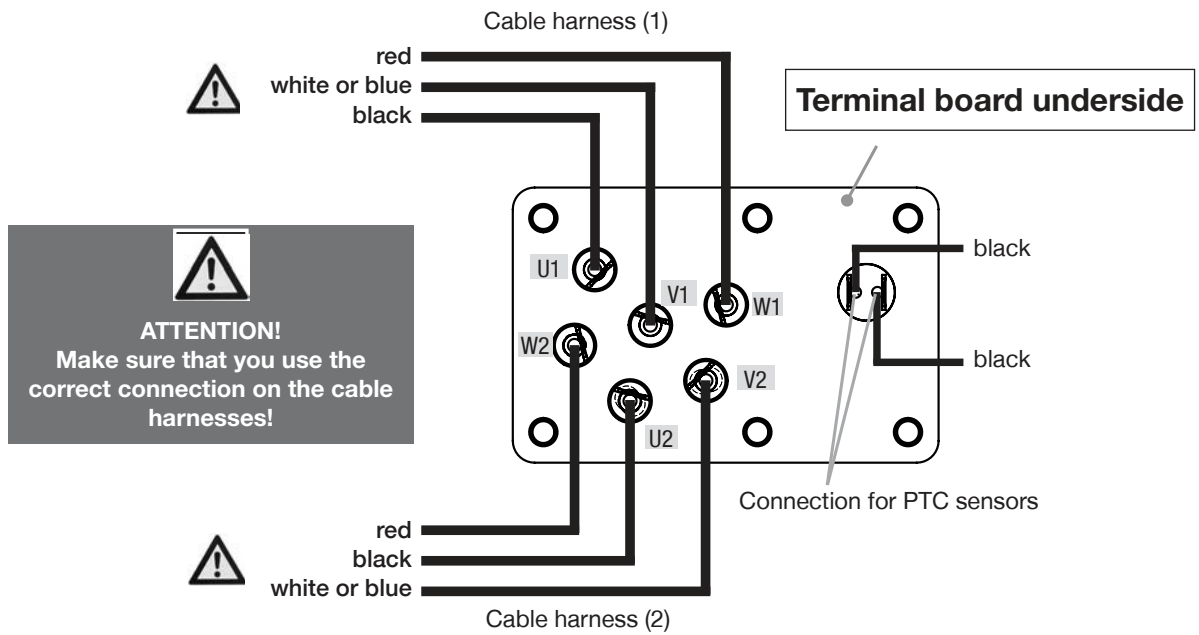


4.3 Connecting the electrical connections to the terminal box

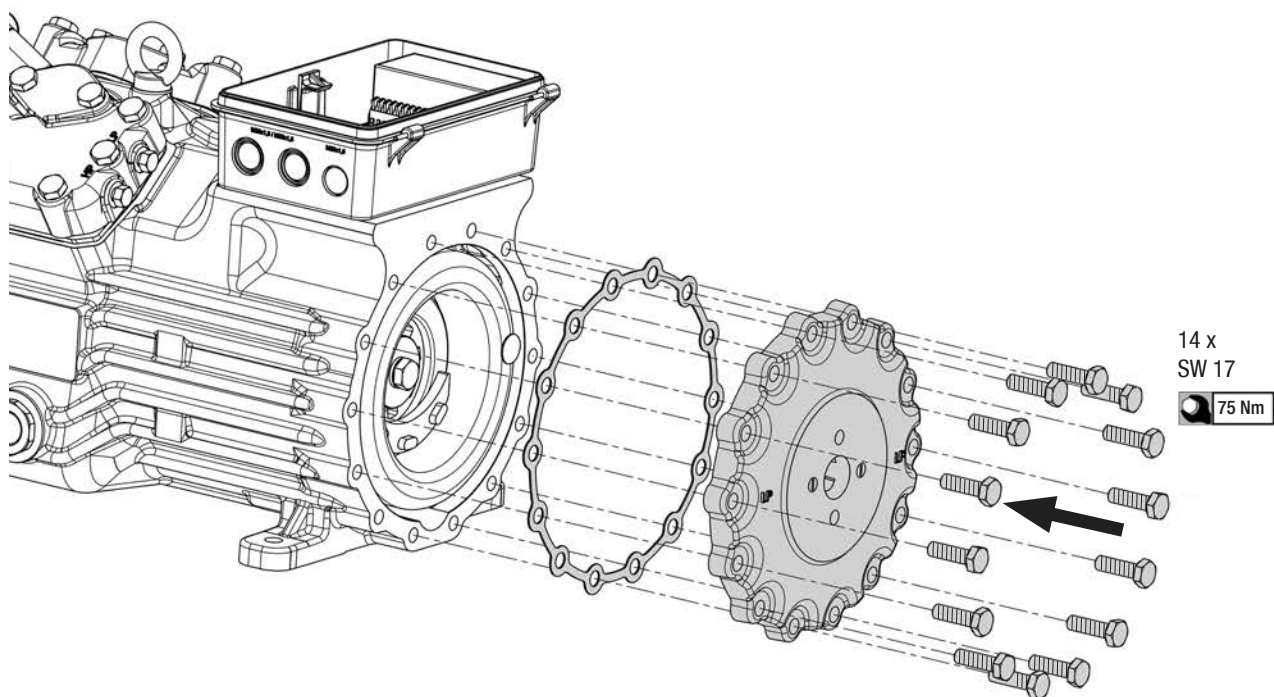
Terminal assignment on the terminal board up to design key 056



Terminal assignment on the terminal board from design key 057

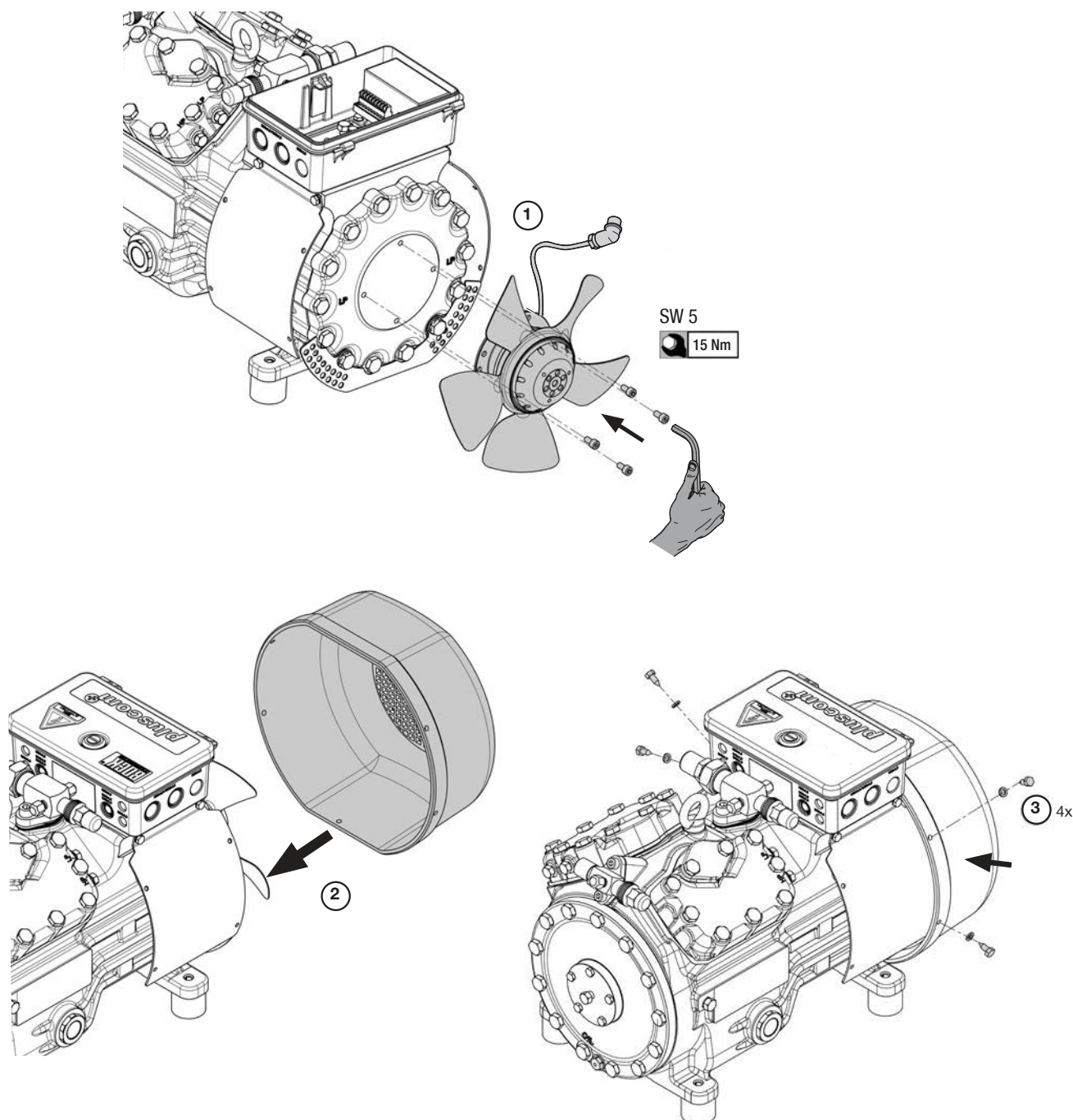


4.3 Installing the case cover



4.4 Assembling and making the electrical connections

- Install the fan (only for HA).
 - Install the electrical connection of the fan on the terminal box (only for HA).
 - Fit the air guide hood (only for HA).
 - Fit the cover on the terminal box.
- **DANGER!** Carry out the additional work steps such as "filling the oil" etc. in accordance with the operating manual.
See the operating manual, in particular the "Start-up" chapter.



Dear customer,

if you have any questions about installation, operation and accessories, please contact our technical service or your refrigerating system wholesaler or our representative.

The Bock service team can be contacted by phone **+49 (0)7022 9454-0** or via **service@bock.de**

Yours faithfully Bock GmbH



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