



**FK40 Axial
play Bock
Compressor**



Danfoss FK40 Axial play Bock Compressor Instruction Manual

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Danfoss FK40 Axial play Bock Compressor



Product Information

Specifications

- **Product Name:** BOCK FK40 and FK50 Axial Clearance
- **Model Number:** AN45072286860101-000201
- **Compatibility:** FK40 and FK50 compressors

Product Usage Instructions

Safety Instructions

It is important to follow all safety instructions provided to prevent injury or damage to the compressor or refrigerating machine.

Components Overview

The product consists of various components that influence the axial clearance, including oil pump, cylinder-roller bearing, crankshaft, bearing flange, and locating disc.

Measuring Axial Clearance

When any part listed in the manual is replaced, the axial clearance must be checked. The clearance should be a minimum of 0.15 mm. If it is less than 0.15 mm, the bearing flange must be removed, and a second gasket inserted to adjust the clearance.

Installation Instructions

1. Ensure the labelled side (BOCK) of components always faces the correct direction during installation.
2. Check and adjust the axial clearance as per the provided guidelines.
3. Insert locating discs based on the axial clearance requirements.

FAQ

Q: What should I do if the axial clearance is less than 0.15 mm?

A: If the axial clearance is less than 0.15 mm, remove the bearing flange and insert the second gasket provided in the kit to adjust the clearance.

Q: When should I measure the axial clearance?

A: The axial clearance should be measured whenever a component listed in the manual is replaced to ensure proper functioning of the compressor.

Installation instructions axial clearance Bock FK40 and FK50

Symbol explanation

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 machine.



This symbol indicates important additional instructions which you should observe during your work.



Safety instructions

Caution! Refrigerating compressors are pressurised machines and therefore require particularly careful and meticulous handling.

Before starting any work on the compressor:

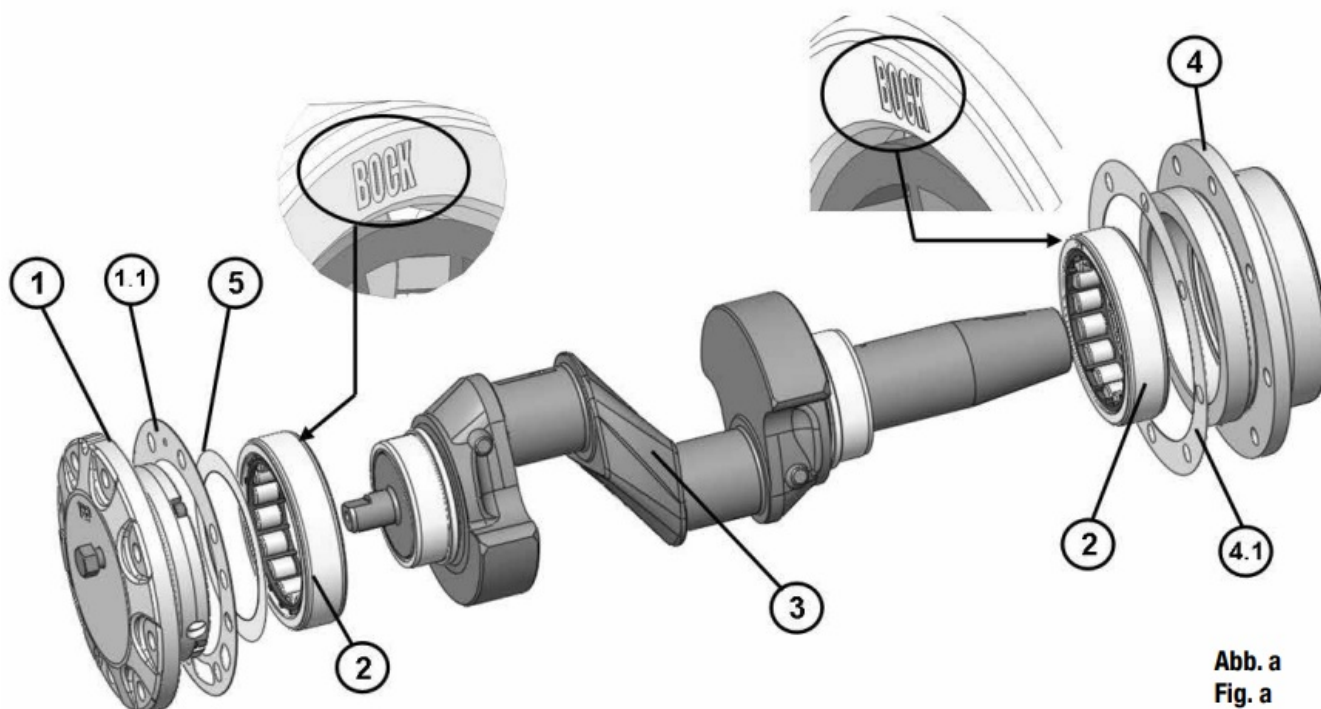
- Switch off the compressor and secure to prevent unintentional switching on.
- Relieve pressure in the compressor.

After completed maintenance:

- Connect the safety switch.
- Evacuate the compressor.
- De-activate the switch-on safe guard.

Overview


Overview of the components which influence axial clearance



Installation instructions

Installation instructions axial clearance Bock FK40 and FK50

Pos.1	Oil pump	
	compressor type	kit (Art.-Nr.)*
	FK40 + 50	097B80017
Pos 1.1	seal oil pump	097B05094

Pos.2	Cyl-roller bearing	
	compressor type	kit (Art.-Nr.)*
	FK40 + 50	097B80118
	When force fitting the bearing, make sure that the labelled side (BOCK) always faces the crankshaft.	

Pos.3	Crankshaft	
	compressor type	kit (Art.-Nr.)*
	FK40	097B80154
	FK50	097B80087

Pos.4	Bearing flange	
	compressor type	kit (Art.-Nr.)*
	FK40 + 50	097B80081
Pos 4.1	Seal bearing flange	097B06165



The second gasket for adjusting the axial clearance is included in the kit.

Pos.5 Locating disc



Depending on the axial clearance, one or more locating discs can be inserted when the compressor is in delivery status.

Please note that the legacy BOCK code numbers are without 097B

Measure the axial clearance

As soon as one of the parts listed in figure a. or the compressor housing is replaced, the axial clearance definitely has to be checked (see fig. b).

- Measure with the cover for the face seal ring removed
- Attach the dial gauge to the crankshaft (item 3) using a measuring fixture.
- Place the calliper on the bearing flange (item 4).
- Move the crankshaft axially and keep the clearance constant.

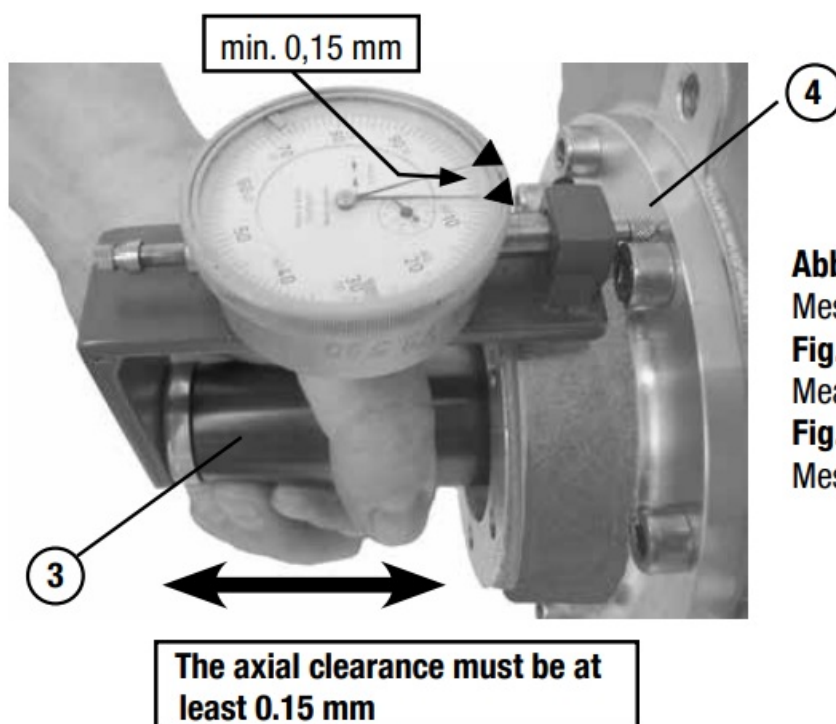


Abb. b (symbolisch)
Messung Axialspiel
Fig. b (symbolic)
Measuring axial clearance
Fig. b (symbolique)
Mesurer le dégagement axial.

Axial clearance < 0,15 mm

If the axial clearance is less than 0.15 mm, the bearing flange (item 4) must be removed and a second gasket inserted (item 4.1, included in the kit, figure c).

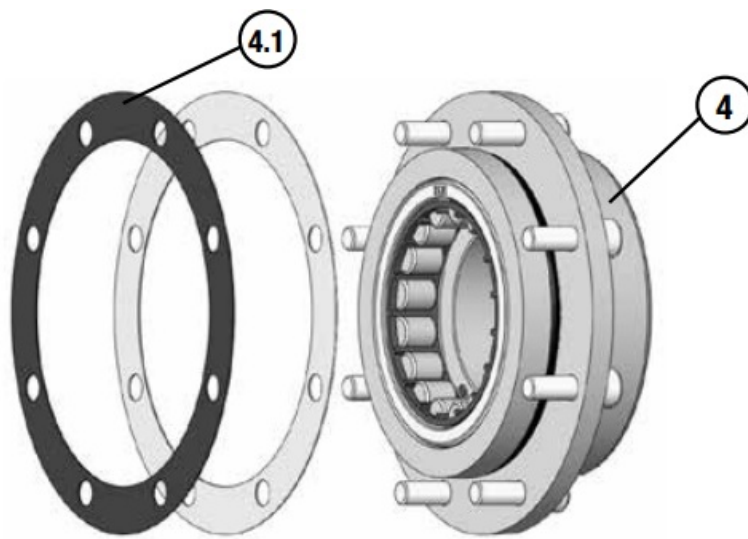


Abb. c (symbolisch)

Fig. c (symbolic)

Fig. c (symbolique)

After fitting the second gasket (item 4.1) the axial clearance must be checked again.

Subjects to change without notice!

Danfoss A/S


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Documents / Resources

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References

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