

Installing and removing separate bearings

Annex to the fan operating and maintenance instructions

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1 General Installation of separate bearings

Below are instructions for installing separate bearings. See also the instructions in accordance with the bearing housing types, with revisions/additions to the illustrations below.

1. Clean the shaft and the bearing pad
2. Check the seals and replace them with new ones if they are damaged, lubricate the shaft seals with grease
3. Push the bearing parts onto the shaft
4. Fit the lock washer and the nut on the cone and tighten the nut slightly
5. Place the bearing parts onto the lower half of the bearing housing. If you removed the bearing housing, place it according to the marks made by you and attach to the base
6. Cram the bearing onto the sleeve by tightening the nut and lock the nut to its place by the lock washer
7. Fill the bearing and the bearing housing with grease, check the grease levels. Grease quantities are fan specific and about them can be found more detailed information from the appliance specific documentation.
8. Place the top half of the bearing housing and tighten the screws. Check screw tightening torques. Tighten torques are fan specific and about them can be found more detailed information about appliance specific documentation.

Huom!

The top and bottom halves of different bearing housings are not interchangeable. The halves are labelled with a number so that they can be combined properly.

Install the uninstalled components in place, test-run the fan and check the temperature as well as the sound of the bearings.

2 Bearing disassembly

Removal of the drive side bearing:

1. Clean the bearing and the shaft from outside dirt and mark the place of the bearing housing
2. Support the shaft in place for instance by half cover
3. Remove the cover of the drive and the drive from the shaft
4. Remove the top half of the bearing housing and mark it if necessary, for the assembly
5. Turn the lock washer tongue out of the nut slot and turn the nut a few turns open
6. Remove the inner ring by hitting the mounting sleeve or curved punch which is pressed against the nut sleeve and the bearing inner ring
7. Remove the bearing housing from its base and pull the bearing off the shaft with the lower half

The impeller end bearing removal:

1. Remove the impeller and drive from the shaft
2. Remove the bearing as described above
3. Remove the bearing of the drive side (check the location of the bearing housing and the cover couples of the nests before removing)
4. Pull the shaft out from the drive side