

Replace Bearings Encapsulated Airends



Notice: Always make sure the power is off to compressor and contact the manufacturer for advice.

Call 800-531-9656 to find a local trained air compressor service technician.

WARNING: To avoid personal injury, always shut OFF the main power supply and disconnects to the compressor, relieve all air pressure from the system, and check electrical system with electrical probe before starting any service or maintenance on the compressor.

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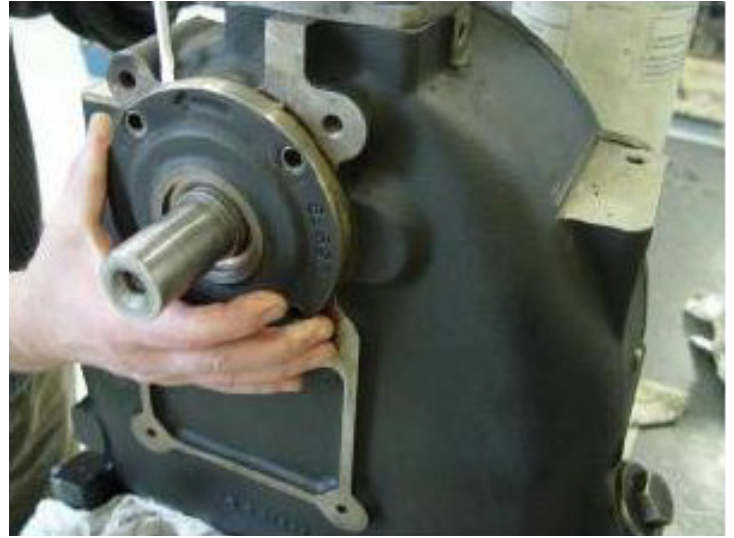


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Step 1

Remove the feather key. Unscrew and remove the front cover.



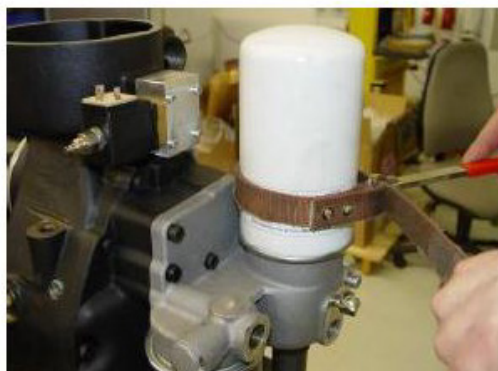
Step 2

Unscrew and remove the front cover



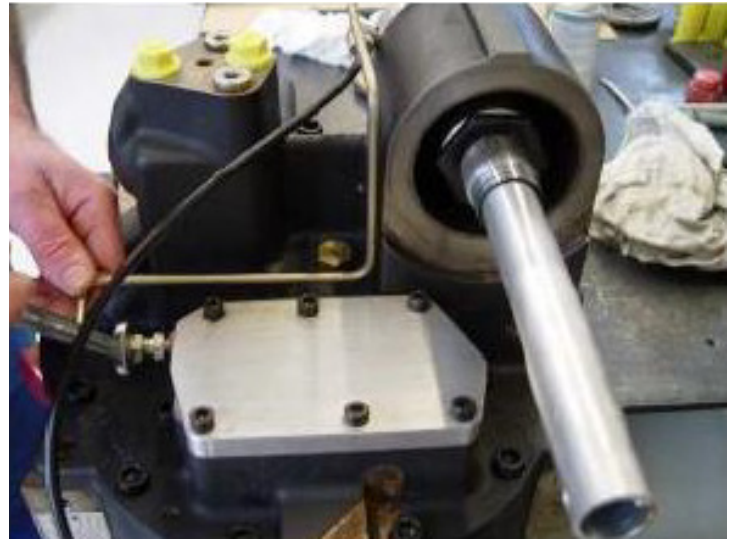
Step 3

Drain the oil, remove the oil filter and separator cartridge.



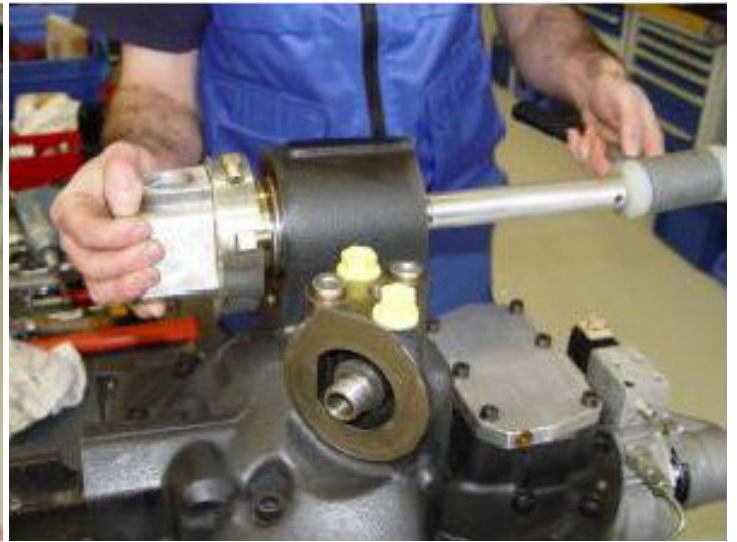
Step 4

Detach the pilot tube and the oil return tube.



Step 5

Unscrew and remove the separator head.



Step 6

Unscrew the bearing cover and main cover.



Step 7

Lift the main cover with the rotors carefully out of the housing with a crane.



Step 8

Open the nut locks and unscrew the nut of the rotors. Retain the rotors with the pictured device.



Step 9

Press out the first male rotor, then the female rotor. Take care not to damage. Protect it with cloth.



Step 10

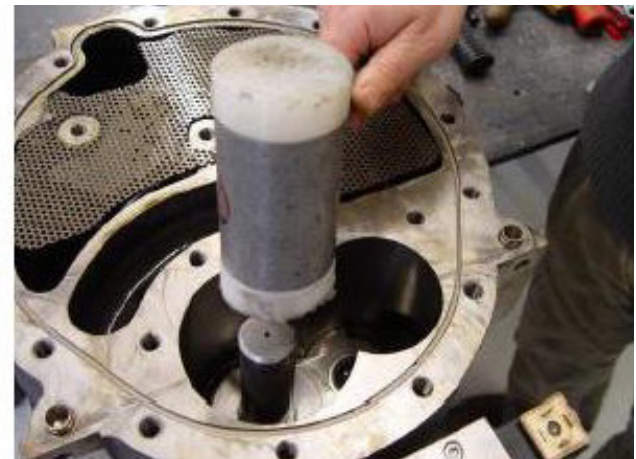
Draw out the shells of the taper roller bearings with an extractor.

Coat Loctite 648 on the new shell and press it in the bearing seats to the bedstop.



Step 11

Draw out the smaller roller bearing of the housing, knock out the roller bearing of the male rotor with a bolt in the shown directions.



Step 12

Coat Loctite 648 on the bearings. Knock in the roller bearings of the female rotor to the bedstop.



Step 11

Press in the bearing of the male rotor by using the front cover.



Step 12

Insert the rotors carefully in the housing and put on cover.



Step 13

Sledge the taper roller bearings on the shaft.



Step 14

Pull out the cover with the rotors. Put Loctite 648 on the thread of the nuts.



Step 15

Place 2 gauges with thickness of $t=0,05$ mm between the rotors and the cover. Each gauge must be covered by 2 rotor shoulder. Start with the male rotor.



Step 16

We must achieve a play of exactly 0,05 mm for the NK100. Tighten the nuts until the gauges can be moved with almost no force. Joggle the rotors in order to get out the play in between bearings and shells. You can also knock the rotors downwards with a plastic hammer.



Step 17

Before locking the nuts, measure again the 0,05 mm play. It is imperative to get the gauges easily between rotors and cover in order to avoid a locking up of the rotors.



Gap measures:

NK 30	0,04-0,05
NK 40	0,04-0,05
B 40	0,04-0,05
NK60	0,04-0,05
B 60	0,04-0,05
NK100	0,04-0,05
B 101	0,04-0,05
NK 160	0,04-0,06
B 160	0,04-0,06
B 170	0,04-0,06
NK 200	0,08-0,10
B 201	0,08-0,10
B 260	0,08-0,10



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