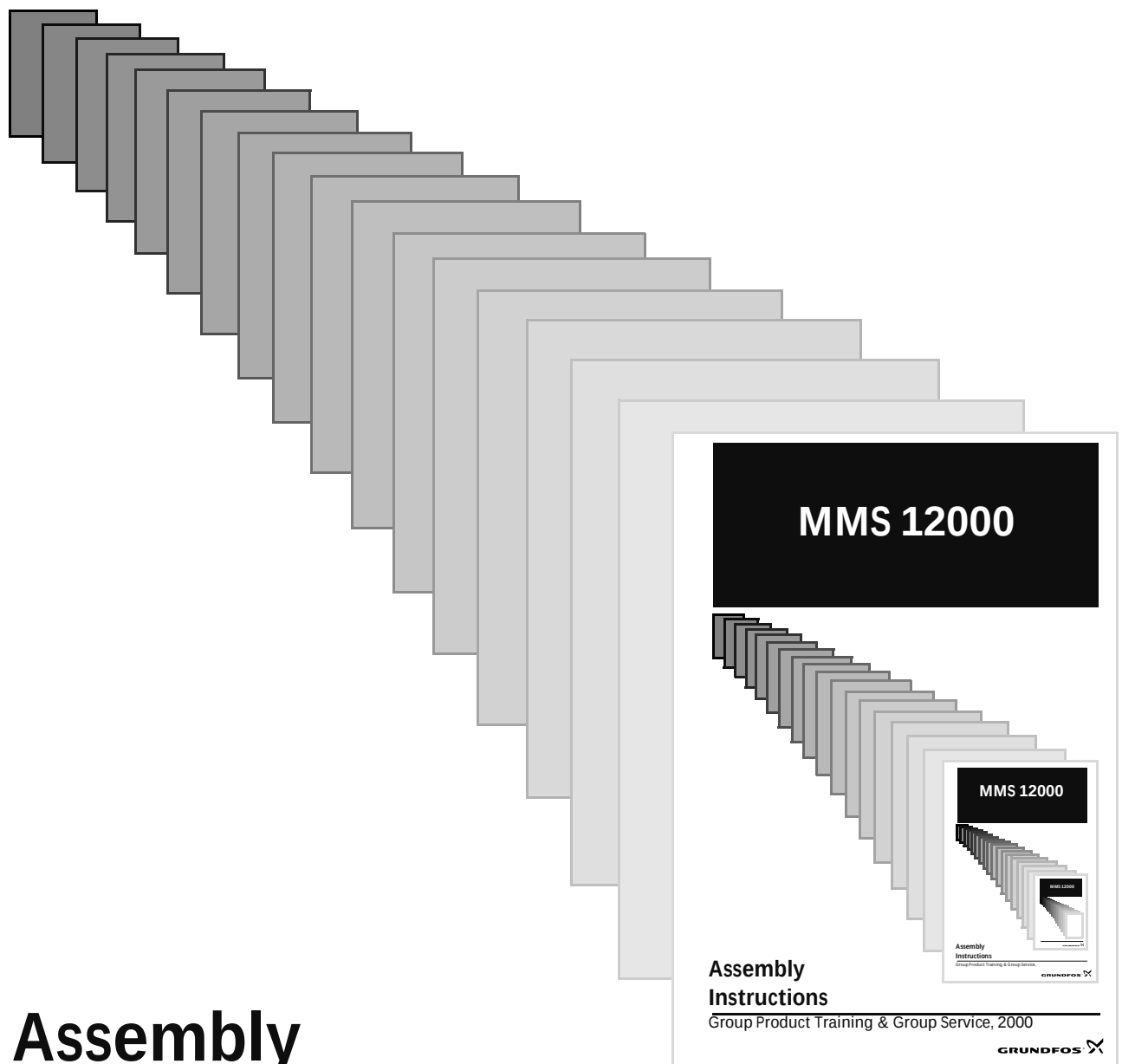


MMS 12000



Assembly Instructions

Contents

Page

ASSEMBLY OF THRUST BEARING HOUSING	3
MOUNTING OF BEARINGS AND RADIAL SHAFT SEAL	5
MOUNTING OF ROTOR AND BEARING HOUSINGS	10
MOUNTING AND ADJUSTMENT OF THRUST BEARING.	13
FITTING OF CABLE GLANDS	17
MOUNTING OF THRUST BEARING HOUSING AND SAND GUARD	18
FILLING OF MOTOR LIQUID	20

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Assembly of thrust bearing housing

1



Tools for assembly

2



Thrust bearing housing parts and tools

3



Insert diaphragm in thrust bearing housing

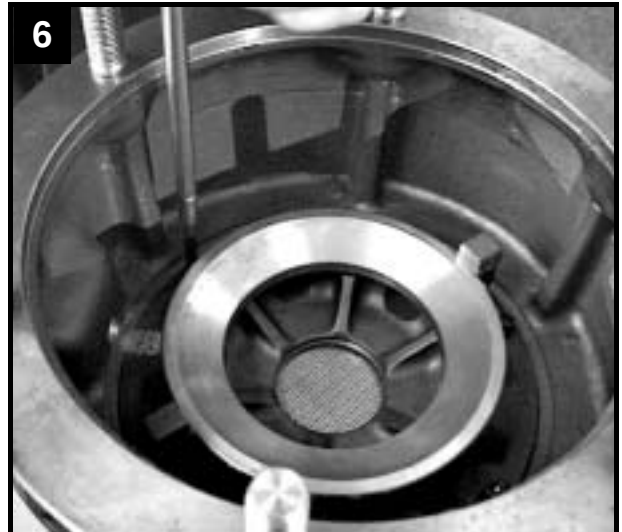
4



Fit diaphragm plate



Fit stationary disc for thrust bearing



Fit and tighten screws for disc

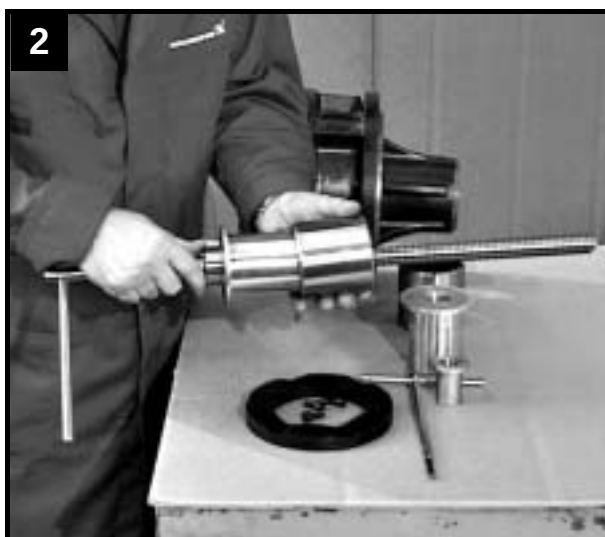
Mounting of bearings and radial shaft seal

1



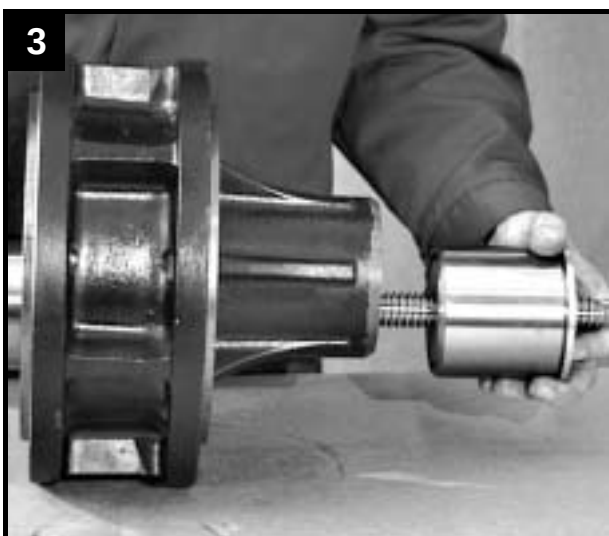
Lower motor bearing housing parts and tools

2



Fit first bearing bush on tool

3



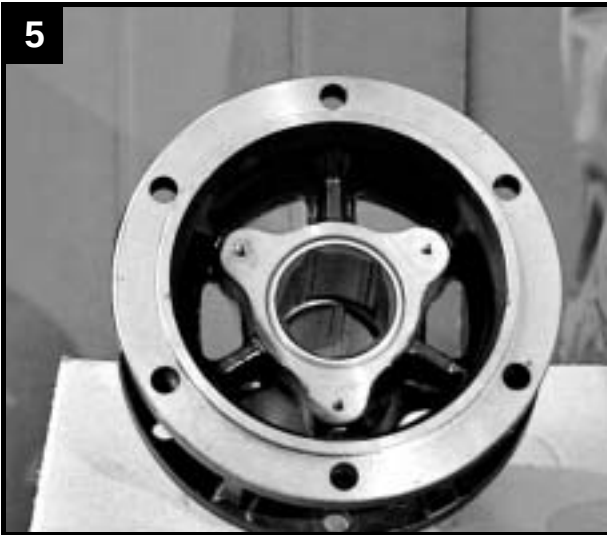
Fit second bearing bush on tool

4



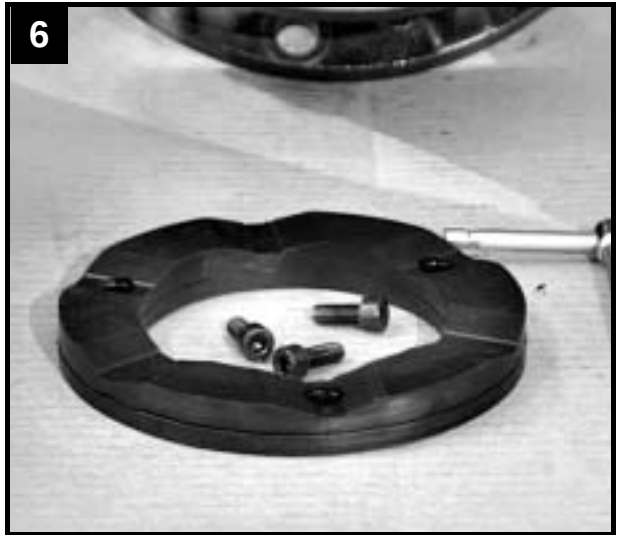
Use tool or an ordinary hydraulic press to insert bearing bushes

5



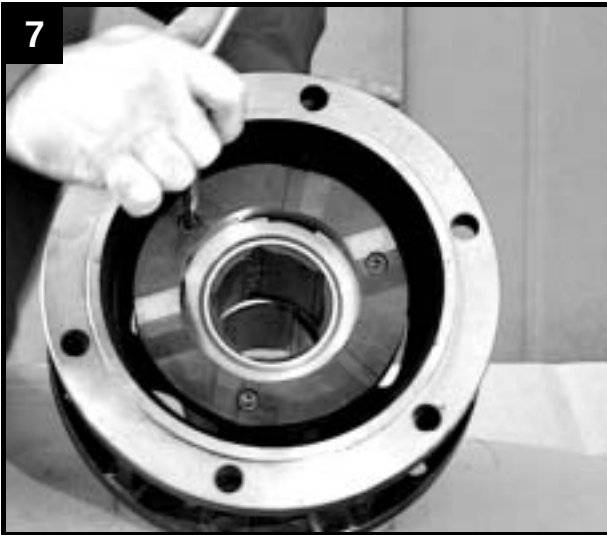
Note: Lubrication slots in the two bearing bushes must be displaced

6



Upthrust bearing pad and screws

7



Fit upthrust bearing pad in lower motor bearing housing

8



Upper motor bearing housing parts and tools

9



Fit first bearing bush on tool

10



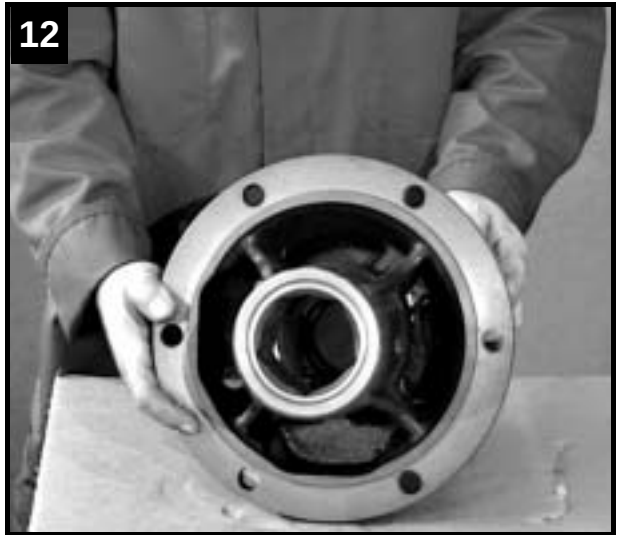
Fit second bearing bush on tool

11



Use tool or an ordinary hydraulic press to insert bearing bushes

12



Note: Lubrication slots in the two bearing bushes must be displaced

13



Radial shaft seal parts and tools

14



Fit housing for seal rings on tool

15



Fit seal ring part on tool

16



Use the tool as a press to assemble the two parts

17



Screw tool into bottom position

18



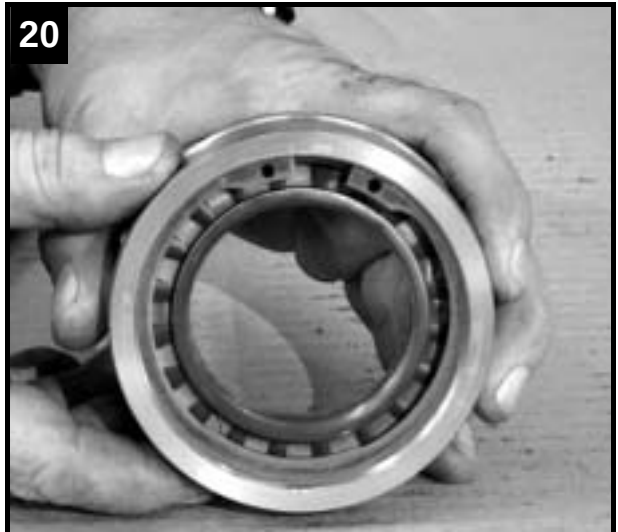
Correctly fitted seal ring

19



Fit circlip

20



Correctly fitted circlip

21



Fit tool in upper motor bearing housing

22



Place housing for seal ring on tool

23



Use the tool to press seal ring housing into position

24



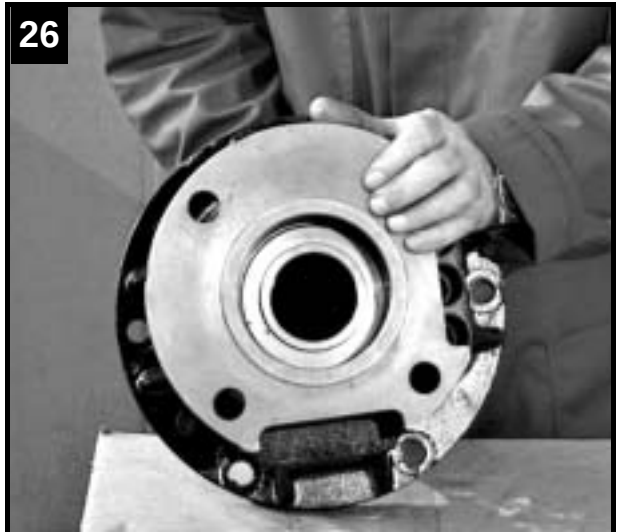
Turn until seal ring housing is in bottom position

25



Remove tools

26



Mounting of rotor and bearing housings



1
Fit rotor.
Be careful not to damage windings



2
Grease seal surface on stator housing



3
Fit gasket

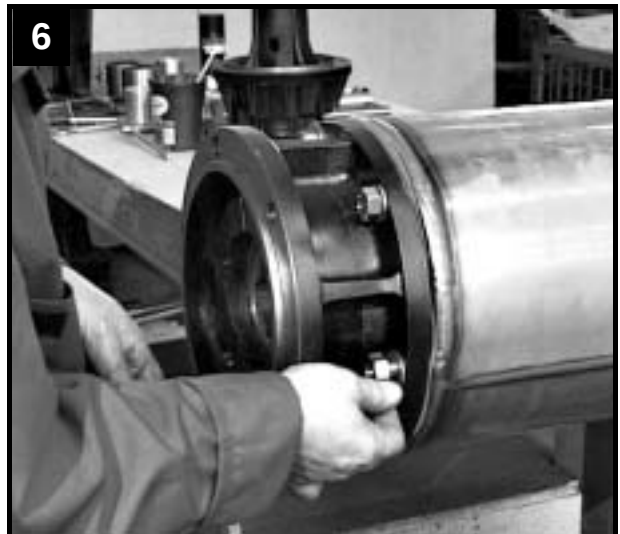


4
Mount lower bearing housing



5

Use a crane to ease assembly



6

Fit washers and nuts



7

Tighten nuts to prescribed torque



8

Grease seal face on upper stator housing



9

Fit gasket



10

Mount upper bearing housing



11

Pull cables through bearing housing



12

Ensure correct sequence of cables



13

Fit protecting sleeve on shaft end



14

Press bearing housing into position



15

Fit washers and nuts

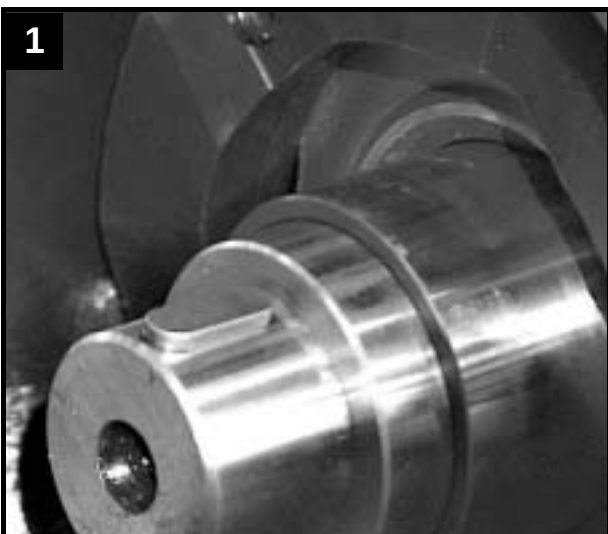


16

Tighten nuts

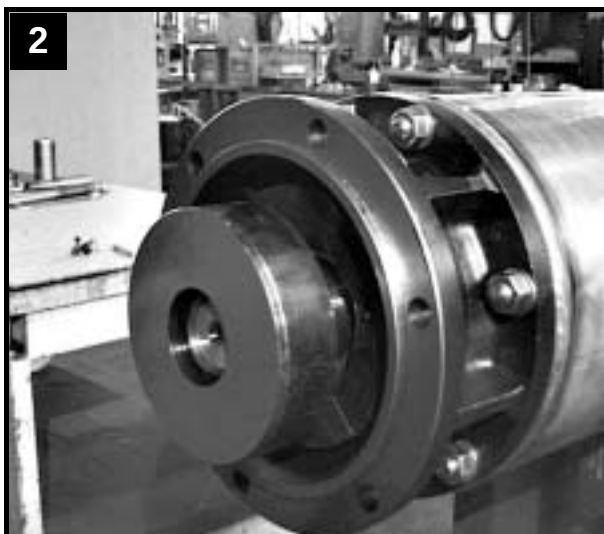
Mounting and adjustment of thrust bearing

1



Fit key for thrust bearing

2



Mount thrust bearing plate

3



Fit washer and screw

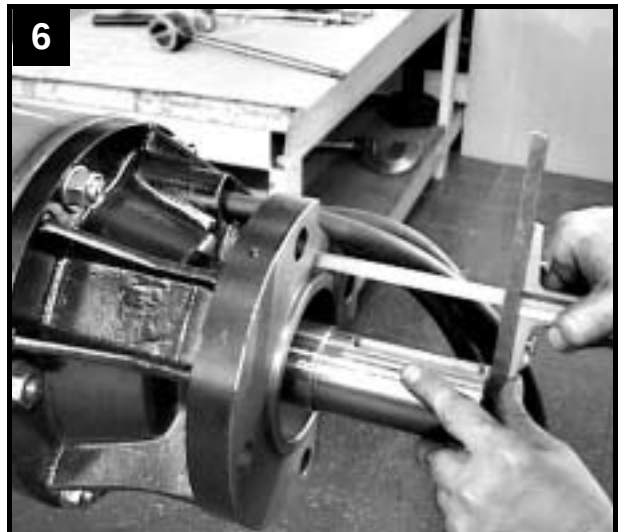
4



Tighten screw



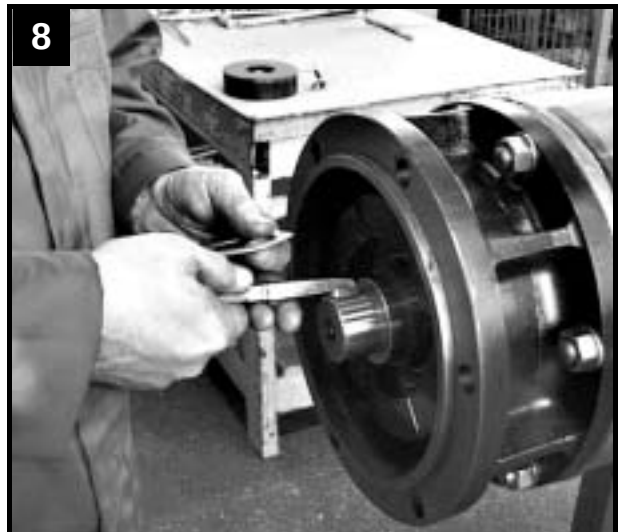
Press rotor assembly into top position



Measure shaft height:
Must be between 101.0–101.3 mm



If adjustment is needed,
dismantle thrust bearing plate



Remove key



Choose proper shim thickness:
1.0 mm or 0.5 mm



Place shim on shaft



11

Lubricate counter thrust bearing plate with silicon oil



12

Lubricate thrust bearing plate with silicon oil



13

Mount thrust bearing plate



14

Fasten washer and screw



15

Tighten screw



16

Press rotor assembly into top position



Correct shaft height in horizontal pos.: 127.5–128.0 mm
Correct shaft height in vertical pos.: 126.6–127.0 mm



Fit gasket

Fitting of cable glands

1



Cable gland rings, cable grommets, cable glands and special tool

2



Fit cable grommet, cable gland ring and cable gland on cables

3



Press cable glands into bearing housing

4



Tighten cable glands with special tool

Mounting of thrust bearing housing and sand guard



Fit thrust bearing pad assembly in thrust bearing housing



Lubricate thrust bearing pads with silicon oil



Mount thrust bearing housing



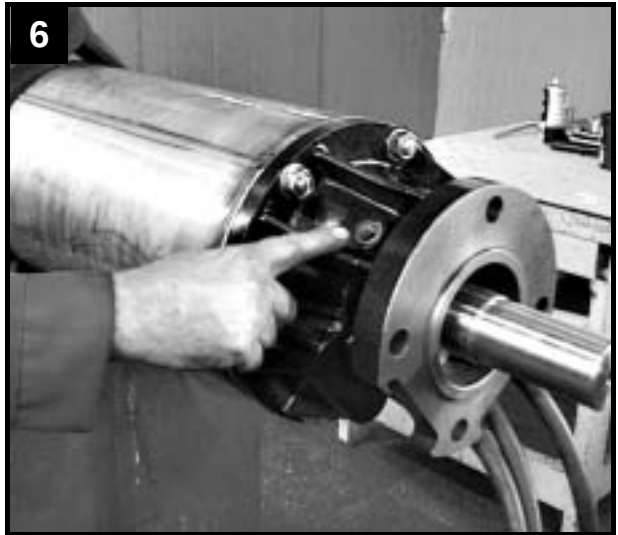
Fit washers and nuts

5



Make sure that hole for filling valve

6



.... and hole for vent valve are in line

7



Tighten nuts to prescribed torque

8



Sand guard

9



Fit sand guard on shaft end

10



Tighten Allen screw

Filling of motor liquid



Fill up with motor liquid ...



...until it flows out of hole for filling valve



Fit and tighten filling valve



Raise top end of motor



5

Add rest of motor liquid

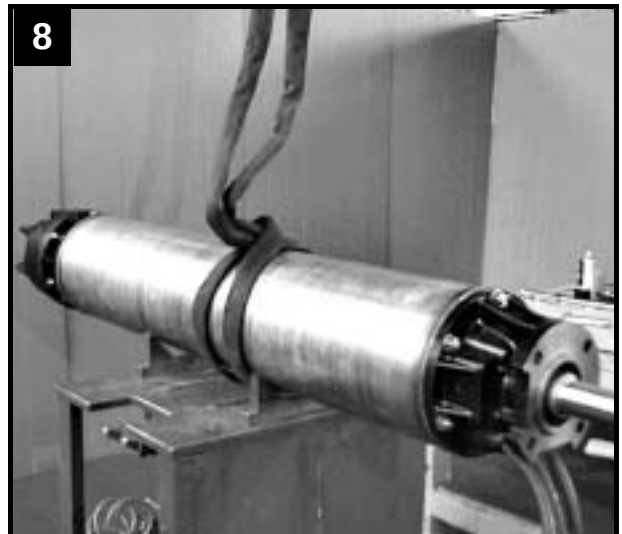


6

Fit and tighten vent valve



7



8

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