Instruction for changing bearings WE/FLE 120

471 1597-35

NOTICE TO SERVICE PERSONNEL

INSTALLATION

Improper installation of Wascomat laundry and wet cleaning equipment can result in personal injury and severe damage to the machine.

REFER INSTALLATION TO QUALIFIED PERSONNEL!

RISK OF ELECTRIC SHOCK

The equipment utilizes high Voltages. Disconnect electric power before servicing.
The use of proper service tools and techniques, and the use of proper repair procedures, is essential to the safety of service personnel and equipment users.

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL!

RISK OF PERSONAL INJURY

This equipment contains moving parts, and some components that may have sharp edges. Improper or careless service procedures may result in serious injury to service personnel.

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL!

ABOUT THIS MANUAL

This manual is intended to provide service guidance to qualified service personnel. Wascomat and its authorized dealers make no determination regarding the qualification of individuals requesting this service manual. The service provider assumes all risks inherent to the servicing of this equipment and any risks that arise as result of the lack of knowledge or ability of any person servicing this equipment.

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL!

NOTE:

Improper installation or servicing of Wascomat equipment will void the manufacturer's warranty!

Data

Drum volume	120 litres.
Bearing type	Ball bearing facing drive side Roller bearing towards drum side
Grease	SKF 65

Description

The inner drum is journalled to the outer drum by two robust bearings in a bearing housing which is bolted to the rear plate. The bearing unit supports the drum without any support being needed at the front. Shaft seals of the V-type, as well as O-rings, seal against leakage.

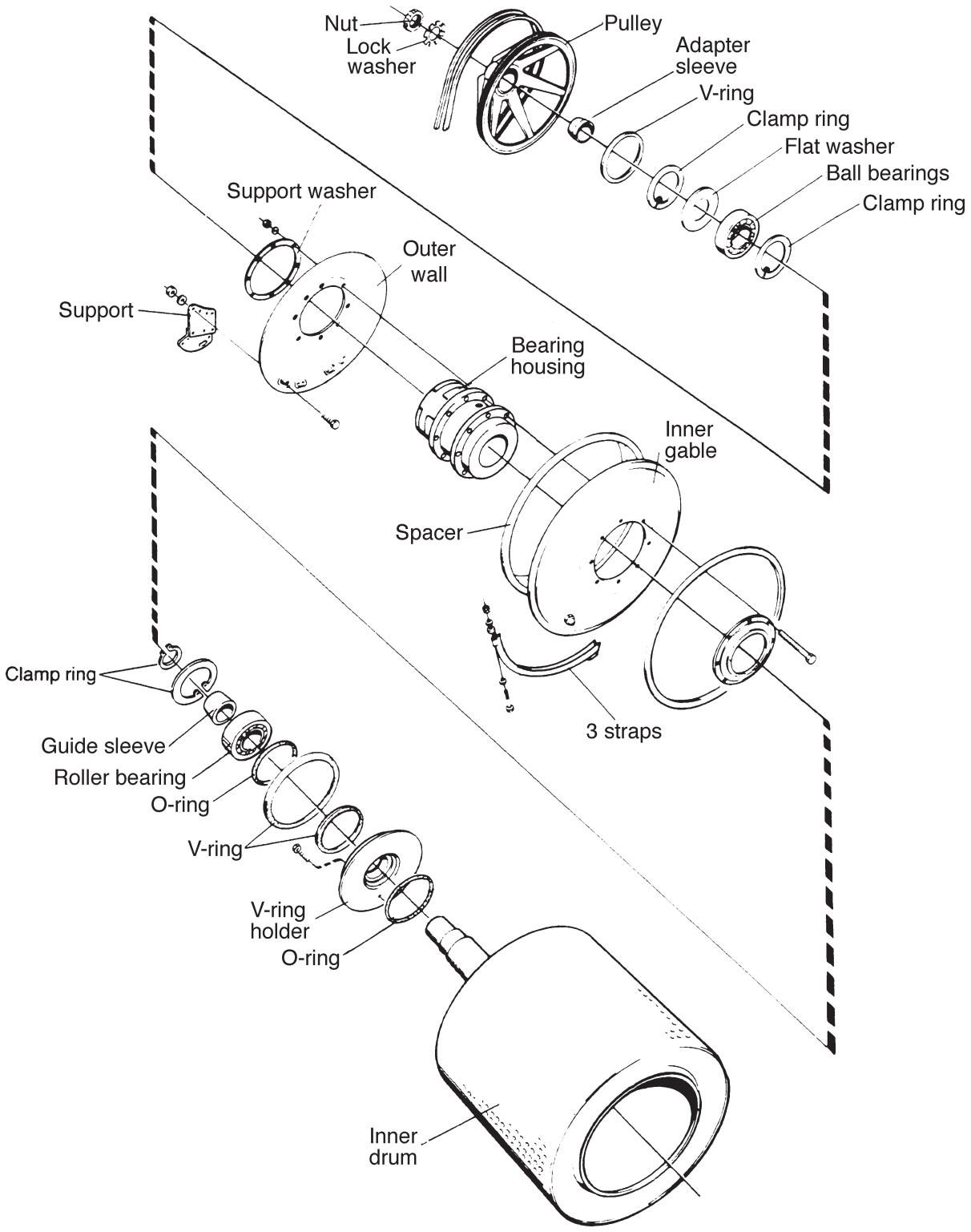
The space between the bearing is packed with grease during assembly. No topping is required.

The inner drum shaft is continuous, and tha V-belt pulley is attached to the protruding journal by an adapter sleeve.

The outer drum end plate consists of two parts, the inner and outer and plates which are botled to the bearing housing with through bolts. NOTE! The inner and outer end plates must not be taken apart when the bearings are replaced.

The outer drum and rear plate are held together by 3 straps.

The outer drum is connected to its resilient suspension by four supports, bolted to the end plates. It is important that these supports are not loosened from the rear plate during repairs.

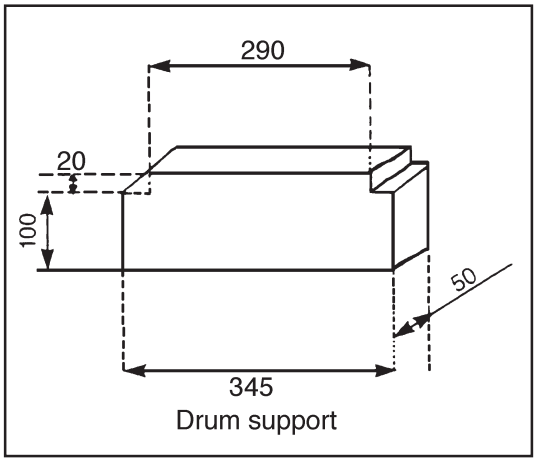

Nut
Lock washer
Pulley
Adapter sleeve
V-ring
Clamp ring
Flat washer
Ball bearings
Clamp ring
Support washer
Outer wall
Support
Bearing housing
Inner gable
Spacer
3 straps
Clamp ring
Guide sleeve
Roller bearing
O-ring
V-ring
V-ring holder
O-ring
Inner drum

Repairs instructions

Bearing replacement, 120 l machine
Special tools

Description	Item no.
Drum support	471 4651-85
Puller	471 1707-01

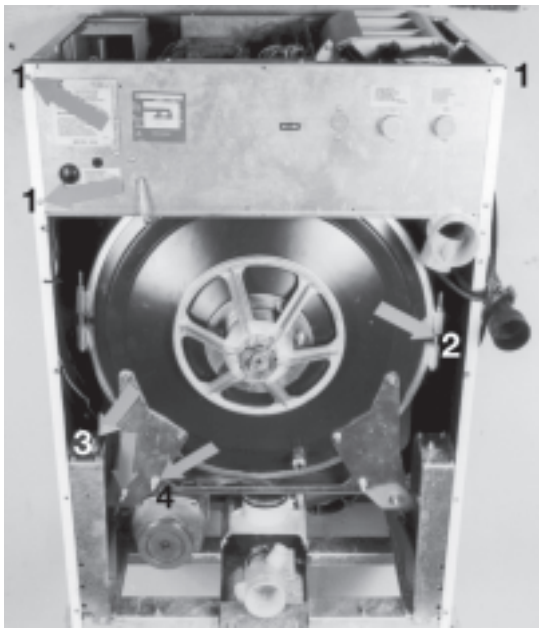
1. Lossen and remove all machine connections, electricity, water, steam and drainage. Lift the machine off the installation site.
2. Remove the top and rear panels.



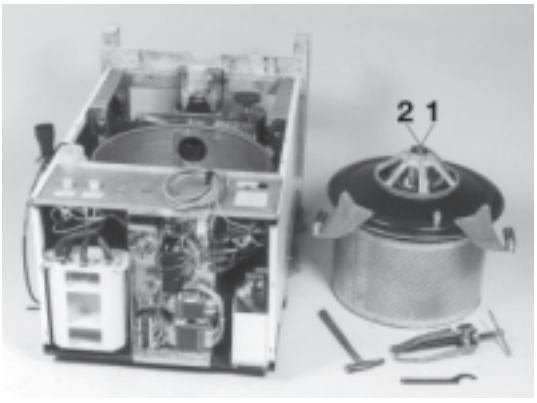
Drum support

3. Fit the two front transport supports (1) and tighten them with nuts and bolts.
4. Loosen the upper and lower bolts so that the upper door pivot releases its grip. Lift off the door (2).
   Observe nylon washer by the lower hinge mounting; it must be in position when the door is refitted.

5. Place a drum support in the door opening so that the drum is locked in its central position. The drum support shold protrude so far that it can support the machine when the latter is placed on the floor.

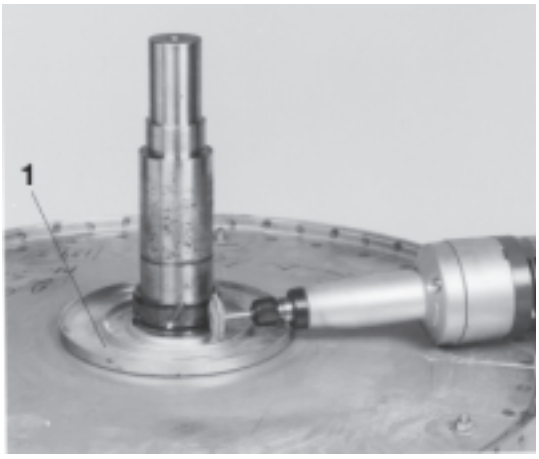


6. Remove the overfilling cutout hose as well a the V-between the drum and extraction mo tor.
7. Loosen the bolts (1) to the stay plate.
8. Loosen the spin cutout spring retainer which is located on the outer drum counterweight.
9. Carefully lower the machine so that its front is resting on the drum support remains in position.
10. Loosen bolts (2) on the straps and slide the straps onto the outer drum.
11. Loosen the spring suspension (3) in the two rear posts.
12. Loosen the chock absorbers.
13. Loosen the motor tray´s two mounting screws. (4)

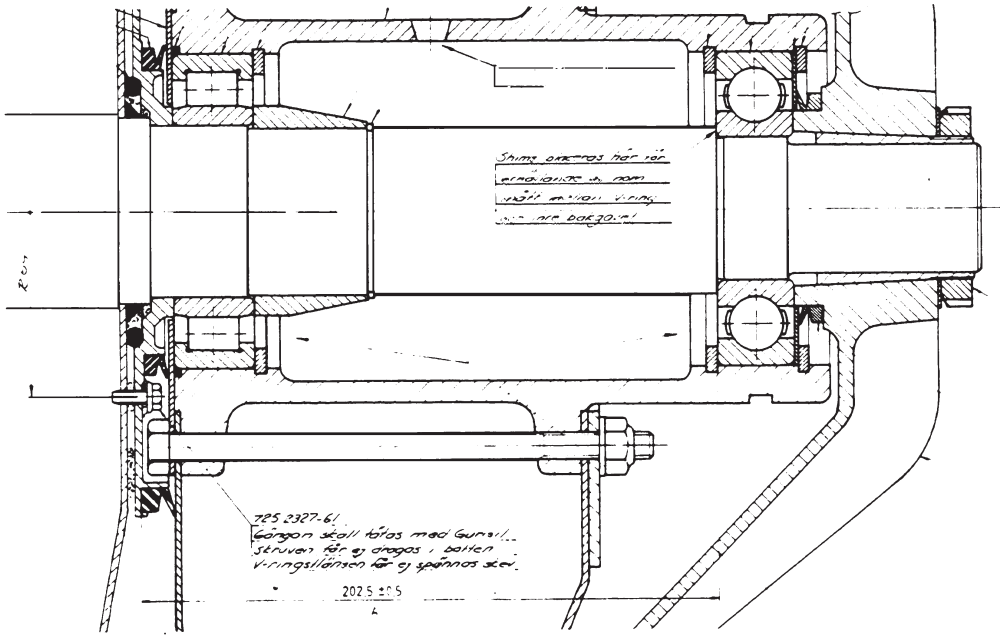


14. Hold the stay out of the way and lift out the drum assembly.
15. Knock down the locking retainer (1) wich is located inside the locknut (2) on the shaft. Loosen the nut about 1,5 turns with the C spanner (3, size 58/63) and tap carefully so that the adapter sleeve loosens.
16. Lift off the pulley with nut and adapter sleeve.

17. Use the puller and pull off the rear plate from the inner drum shaft.



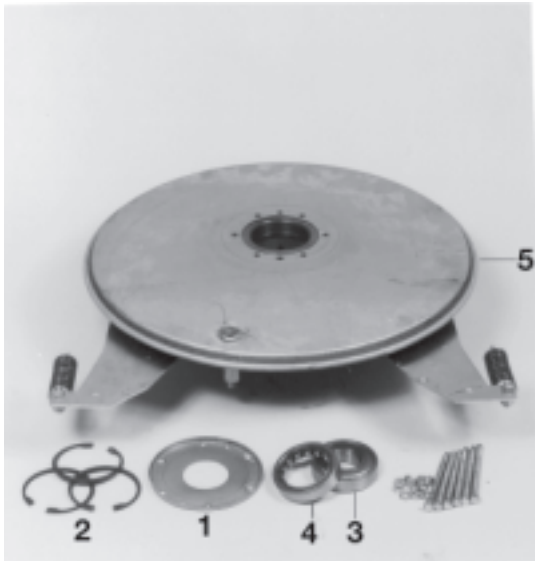
18. Remove the V-rings. Grind or chisel off the bearing inner ring from the shaft.
19. Remove the V-ring holder (1) and thoroughly clean the area below it with thinner or similar solvent.
    Check dimension A as shown on the appropriate diagram. A should measure 202,5±0,5 mm.



20. Lay a run of Silicon or Gurisil in the bevelled groove around the shaft in the drum rear plate.
21. Place a little sealing compound in the screw holes in the V- ring holders and screw the holder into position.
22. The adjusting washer (2) that are located on the shaft should be left in position; their number may not be increased or reduced. Check that no washer have stuck to the grease in the bearing housing. (The number of washers is punched on the shaft end.)

23. Heat the bearing inner ring (1) to around 150° using hotplate, over or the like. Fit the ring to the shaft.
24. Fit the guide ring.
25. Mount the V- rings (3) on the holder. Lubricate the V- rings and the baering inner ring with alittle grease.

26.Remove the washer (1) on the inside of the rear plate.
27. Remove the grooved retainer (2) which is placed in front of the rear bearing.
28. Drive out the rear bearing (3) and strike from inside the rear plate.
29. Drive out the front bearing (4) and strike from outside the rear plate.
30. Clean the bearing housing.
31. Grease in the new bearings with SKF 65 and fit them using a drift. Fit the grooved retainer and washer.
32. Control that the temparature of the roller bearing`s inner ring has sunk to the same temperature as the bearing`s rollers and outer rring. The difference must not be more that 5°C.
33. Fit the rear plate to the drum shaft with a drift.
34. Replace the seal (5) on the bearing housing end.



35. Fit the pulley and the adapter sleeve onto that shaft as follows. (Use the special tool wich makes it easier to tighten the pulley to the correct torque.)
    - Place a washer on the pulley to protect it against damage.
    - Make sure that the Allen screws in the tool are not screwed in so far that tthey " pass through" it.
    - Screw the tool onto the adapter sleeve and tighten.
    - Tighten the tool screw diagonally until they bottom.
    - Remove the tool.
    - Fit the locking washer and nut, tighten the nut steadily and lock with the locking washer.

If the torgue tool is not used, the pulley and adapter sleeve, locking washer, and nut are fitted at the same time. The nut should be tightened to a torgue of 196 Nm (20 kpm). Use a C spanner with extension tube.

36. Ressamble the machine.

37. Connect the machine to the electricity, water and steam supplies and the waste outlet.

38. Test run the machine and check that there is no leakage.