

Washer-Extractors

Barrier Washer
180, 240 and 280 Liter Models

Preventative Maintenance

Original Instructions

Keep These Instructions for Future Reference.

CAUTION: Read the instructions before using the machine.

(If this machine changes ownership, this manual must accompany machine.)



www.alliancelaundry.com

Part No. D2252EN
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Introduction

Replacement Parts

If literature or replacement parts are required, contact the source from which the machine was purchased or contact Alliance Laundry Systems at +1(920)748-3950 for the name and address of the nearest authorized parts distributor.

Customer Service

For technical assistance, contact your local distributor or contact:

Alliance Laundry Systems

Shepard Street

P.O. Box 990

Ripon, Wisconsin 54971-0990

U.S.A.

www.alliancelaundry.com

Phone: +1(920)748-3121

Ripon, Wisconsin

Maintenance

General



WARNING

Always follow safety instructions! Do not bypass any safety devices or their parts. Any interference to the machine functions and construction are prohibited! Use the proper chemical agents which avoid calcium sediments on heating elements and other machine parts. Discuss this issue with your supplier of washing products. The manufacturer of the machine is not responsible for the damage of heating elements and other machine parts due to calcium sediments. Do not operate the machine with broken / missing parts or opened covers! Before maintenance work disconnect the machine power supply! When the main switch is turned off, the inlet terminals of the machine's main switch are still under current! That is the way to avoid injuries.

C089

- When replacing any parts of the machine, exchange them with original parts obtained from your dealer or ordered through the spare parts manual.

Checking and Maintenance Daily

- Remove the linen or other parts (paperclips, needles, ...) that are left lying in the drum to avoid injuries and damage to the rubber door seal, seals, glass etc.
- Clean the door seal from any remaining detergent and other foreign matter.

NOTE: NOTE: Do not use solvents, acids or grease to clean the rubber door gasket!



Figure 1

- Clean the top and body when water or detergent traces are on the machine. Use a damp cloth, do not use abrasive cleaners. Dry with a soft cloth.



Figure 2

- Hoppers must be cleaned at the end of each working day. Remove sediments inside the reservoir by means of a plastic spatula and splash by water.



Figure 3

- Check water and possible steam inlets for leakage.

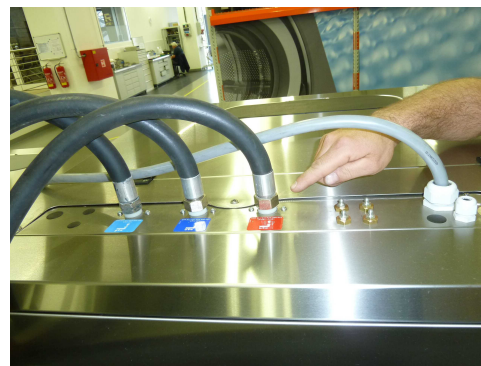


Figure 4

6. At the end of the working day, open the machine door to allow airing out the machine and to prolong the door gasket life service. We recommend to shut off all electrical power inlets and main water inlets.



Figure 5

7. At the end of the working day, open the machine door and clean both magnets on washing drum from metallic dust. Use an adhesive tape.

IMPORTANT: For proper function keep the magnets clean.

Checking and Maintenance Every Three Months

1. Check the bearing house for leakage.
2. Check if the drain valve is not leaking during the wash process. It is also important that the valve opens properly afterwards (drain valve opens when electrical power falls out). Wash out the drain if the water doesn't drain fluent.

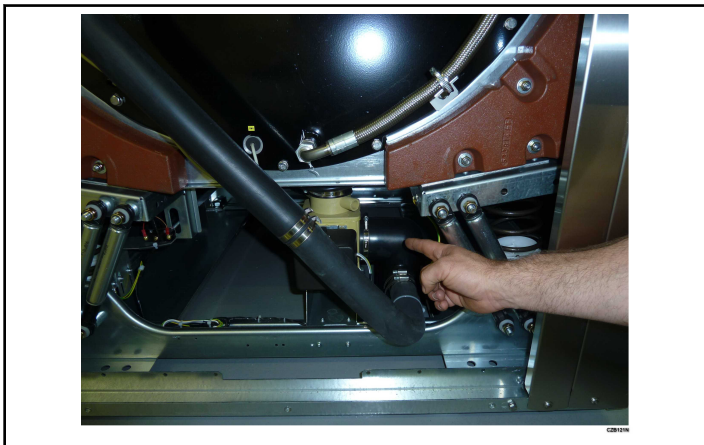


Figure 6

3. Check for the belt tension or possible damage; therefore remove the machine side cover.

4. Check the tightness of the bolts according to chapter *Tightening Moments*.



Figure 7

5. Check visually all hoses and connection inside the machine for leaking.
6. Make sure that the control components are protected against moisture and dust during the clean up. Wipe and clean up the machine inside.



Figure 8

7. On machines with electric heating check the tightening of the contacts of heating elements terminals and other power terminals (main switch, fuse disconnectors, contactors).

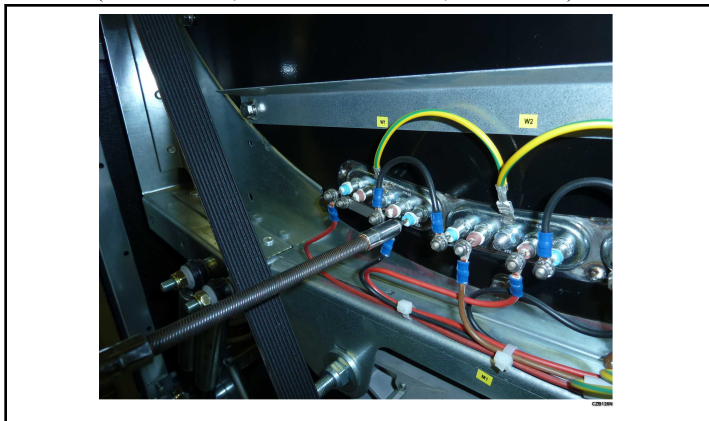


Figure 9

Checking and Maintenance Every Six Months



WARNING

Before removing covers of the machine, switch power off and wait for at least 10 minutes. Before starting inspection of frequency inverter, check for residual voltage across main circuit terminals (+) and (-). This voltage must be below 30vdc before you can access the inverter for inspection.

C207

1. Clean the filters in the water connection at the valves.
2. Turn off the tap.

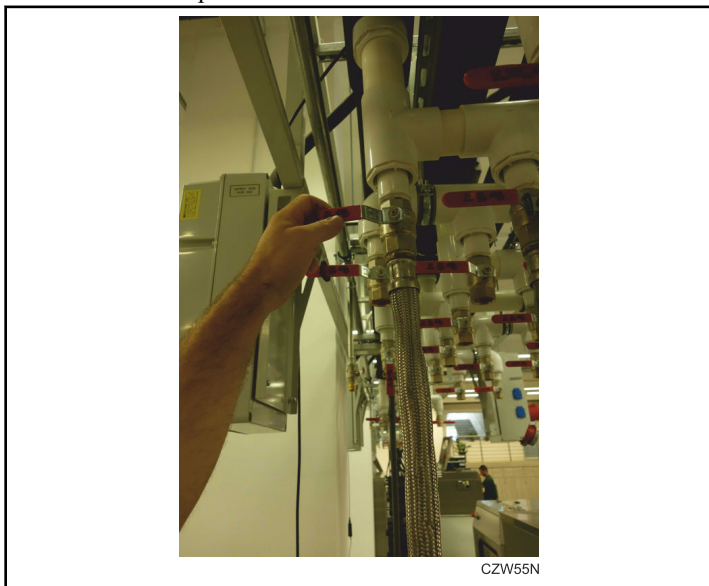


Figure 10

3. Unscrew the inlet hoses from the appliance.



Figure 11

4. Take out the filter at the center with pointed pliers, clean and re-insert. When re-attaching the hoses, make sure that the seals are seated correctly.



Figure 12

5. Check water inlets for leaks.

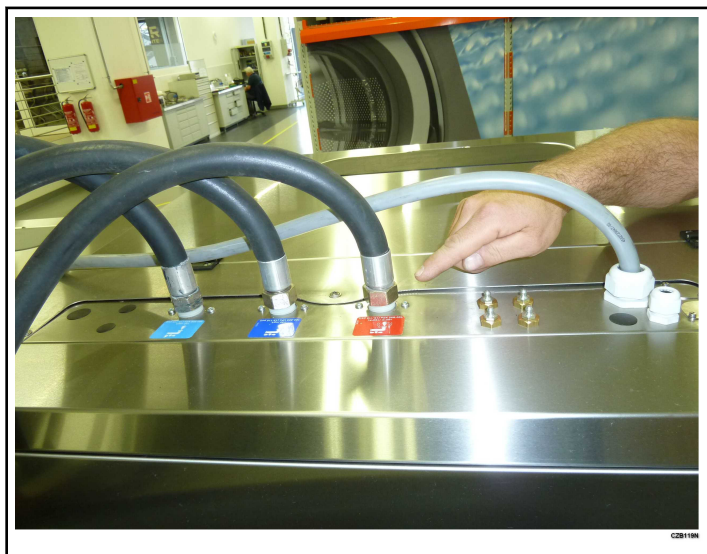


Figure 13

6. Tighten the connections or replace the seals of the inlet hose if necessary.
7. Remove dirt and dust, clean, and verify functionality from:
 - the cooling fin of the inverter

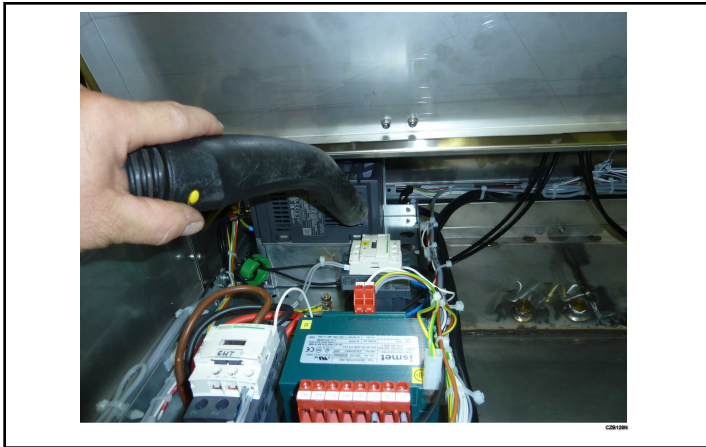


Figure 14

- the motor cooling fins

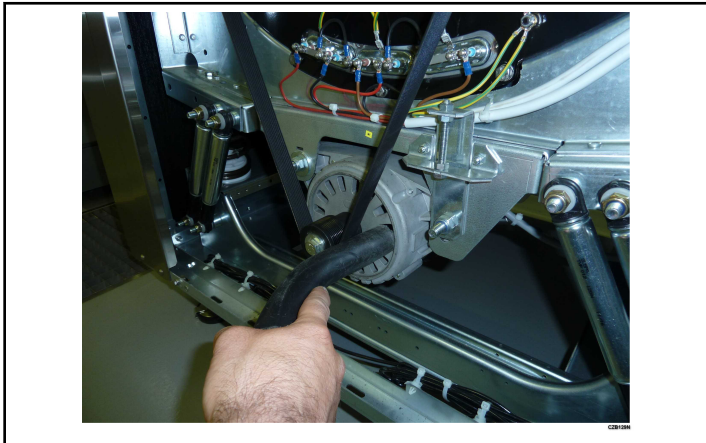


Figure 15

- the internal ventilator of the inverter (if present)
- the external ventilator (if present)
- the external air relieves of the machine



Figure 16

Adjusting of Safety Switch

- The safety switch is an important component which must - if correctly adjusted - stop the machine when excessive movement and shaking occur due to an unbalance caused by improper distribution of linen in the washing drum, or when the amount of laundry exceeds the machine capacity.

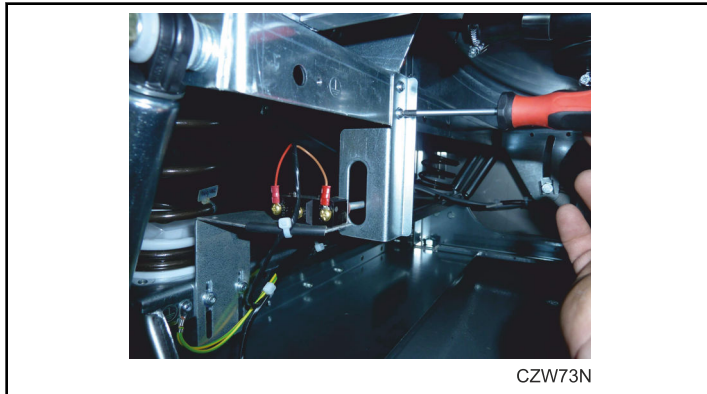
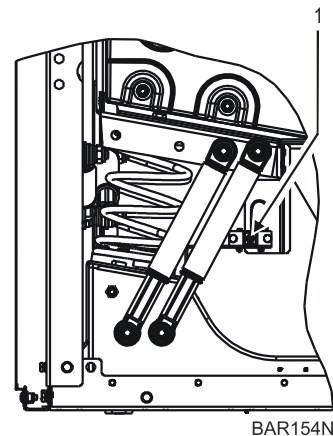


Figure 17

- Setting the safety switch without laundry inserted in drum: 18-24-28 kg / 40-55-65 lb / 180-240-280 L: X = 0.08 in. [2 mm].
- The X dimension represents the distance between the lower edge of the lug and the stick of safety switch. Refer to Figure 18.

Safety Switch



1. Stick of Safety Switch

Figure 18



WARNING

Do not use the machine if this function doesn't work properly! This functional test can only be executed by a qualified technician with proper authorization.

C239

Belt Replacement and Adjusting Tension



WARNING

Make sure the machine is disconnected from power supply by use and secure the disconnecting device.

- On a new machine and after a belt replacement, make an inspection of the belt tightness:
 - After first 24 hours of operation
 - After first 80 hours of operation
 - Every 6 months or every 1000 operation hours - whichever comes first.
- The belts are accessible from the side of the machine – the side with main switch. If the belts are too tight or too loose, the durability will be shortened. If too loose they can be slipping on the pulley and can cause a noisy operation and generate excessive wear with fast breaking as consequence. In such cases correcting the belts tension is necessary, see the recommended values below.
 - 18 kg / 40 lb / 180 L: 64-69 Hz
 - 24-28 kg / 55-65 lb / 240-280L: 72-75 Hz



Figure 19



WARNING

To change the belts: Never use a crowbar, screw driver or alike to take off the belts over the pulley!

C241

Lubrication



WARNING

Carry out the lubrication procedure only when the main switch is off and all components have been stopped! (unless stated otherwise in the following instructions).

C242

- Use a grease press.
- Press the lubrication in slowly. High pressure may distort the sealing.
- Use lubricating grease containing extreme-pressure additives of the following characteristics:
 - NLGI consistency no. 2
 - Lithium base
 - EP additives
 - With anti-corrosion properties
 - Stable against oxidation
 - Water resistant
 - Good mechanical and thermal stability
 - Recommended lubricants: Gadus S2 V220 2 (SHELL), Alvania EP2 LF (SHELL), Beacon EP2 (ESSO)
- The standard location of lubrication points on the upper panel. Refer to *Figure 20*.
- On request - location of lubrication points is under the covers on the left and right side of the machine. Refer to *Figure 23*.

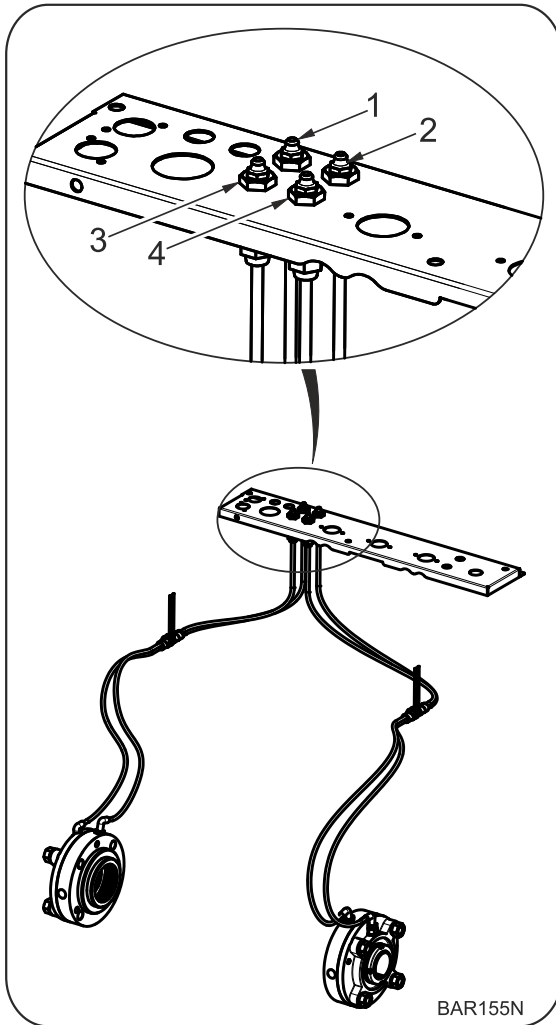
Before You Start the Lubrication Procedure

1. Put the machine in the extraction mode of operation for about 10 minutes in order to warm up the old grease in the bearings.
2. Switch the machine off, slowly pump the lubricant and at the same time turn the drum.
3. Remove the excess pressed out lubrication. After the sealing has been lubricated, it might occur that certain amount of excess lubrication is pressed out into the area of the external drum (tub). In order to remove the excess lubrication, carry out hot wash cycle without any laundry. Thus, the grease is washed away.

Once every 6 months carry out lubrication of:

- Bearings - 4 grams for one bearing, (approximately 4 strokes, based on the grease press type).
- Sealing rings - 3 grams for one sealed spot, (approximately 3 strokes, based on the grease press type).

Lubricator on the upper Panel – on Request



1. Left bearing lubrication
2. Right bearing lubrication
3. Left sealing ring lubrication
4. Right sealing ring lubrication

Figure 20

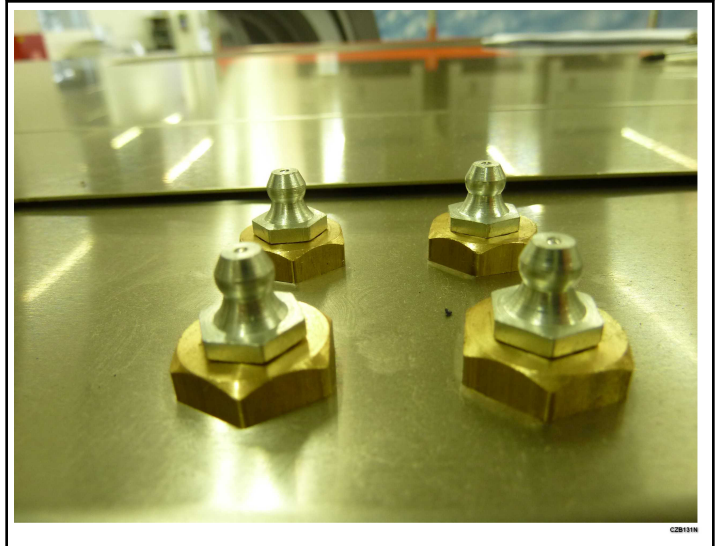
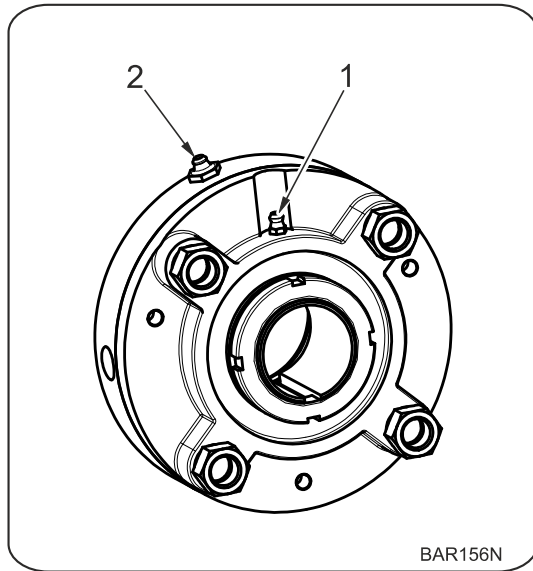


Figure 21



Figure 22

Lubricator

1. Bearing lubricator
2. Lubricator of sealing rings

Figure 23

Water Filters

- Machines are equipped with filters on water inlets. It is necessary to clean up the filters occasionally to avoid a prolongation of filling the machine with water. Intervals of cleaning depend on the quality of the water, for example foreign particles in the water line.



Figure 24

**WARNING**

Before you start cleaning the water filters, check if all water inlet to the machine is closed.

C243

Tightening Moments

- Selected recommended torque values:
 - 4 Nm – nut M6 for securing the heating element

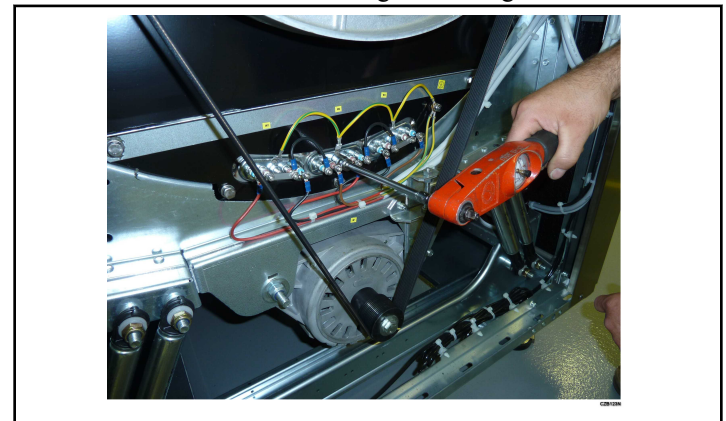


Figure 25

- 2-3 Nm – hose clamp



Figure 26

- 1-1.3 Nm – wire hose clamp

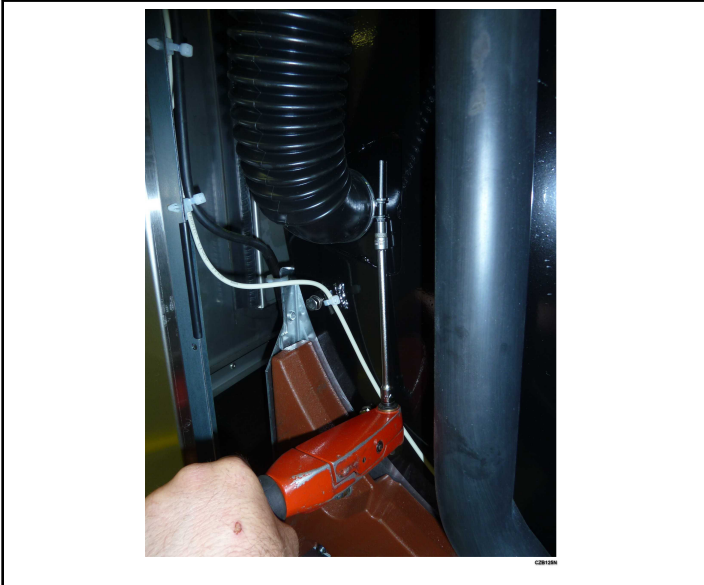


Figure 27

Replacement Washer Fuses

Fuse Values

The correct values of fuses can be found in the vicinity of the fuse holders and on the electrical scheme and delivered with the machine. When a fuse is blown, you can replace it with the same value but in NO case a higher value. If the fuse blows again, do not change it, but find the cause of the failure. Contact your commercial distributor for help if necessary.



Figure 28



Figure 29