

Periodical preventative
maintenance

Elexo Shower-toiletchair

Exexo Shower-Toiletoverstoel

51005500 (Standard)



Important!

The Exexo should be inspected at least once a year.

Repairs and maintenance should be undertaken only by staff authorised to do so by Lopital Nederland BV, and with original spare parts.

Making changes to the construction could affect the safety of the Exexo. This will also lead to Lopital's liability and warranty conditions being invalidated. As a result, the Exexo will no longer comply with the guidelines for medical devices.

Each inspection or repair must be entered to the log.

Manufacturer:

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1. General condition of the chair
2. Batteries
3. Charger
4. Operation + Emergency stop
5. Wheels
6. Armrest/front closure
7. foot support

C= Check
 S= Service/lubricate
 A= Replacement advised
 V= Replacement



| Month | 12 | 24 | 36 | 48 | 60 | 72 | 84 | 96 | 108 | 120 |
|-------------------|----|----|----|----|----|----|----|----|-----|-----|
| General condition | C | C | C | C | C | C | C | C | C | C |
| PUR | C | C | C | C | A | C | C | C | C | A |
| Operation | C | C | C | C | C | C | C | C | C | C |
| Wheels | C | C | C | C | C | C | C | C | C | C |
| Front closure | C | V | C | V | C | V | C | V | C | V |
| Footrest | C | C | C | C | A | C | C | C | C | A |
| Battery | C | C | A | C | C | A | C | C | A | C |
| Battery charger | C | C | C | C | C | C | C | C | C | C |

1. General condition of the chair

| Month | 12 | 24 | 36 | 48 | 60 | 72 | 84 | 96 | 108 | 120 |
|-------|----|----|----|----|----|----|----|----|-----|-----|
| | C | C | C | C | A | C | C | C | C | A |

Required tools

- Touch- up pen Sikkens A77A2

- Visually check if the log, the instructioncart and the user manual are available. When it's not available, report this by the user.
- Visually check if all stickers are present and legible. Can you read the serial number yet?
- The CE Sticker should be present and clearly legible. This also applies to the sticker with inspection date.
- Visually check all painted parts for damage and corrosion. Touch up if necessary.
- Check PUR parts for severe discolouration (Brown in particular) and damage.
- Are all the screws present and securely fitted? Also that of the guide?
- Check whether the bolts of the actuator are securely fitted, both at the top and at the bottom. (See figure 1 and 2)

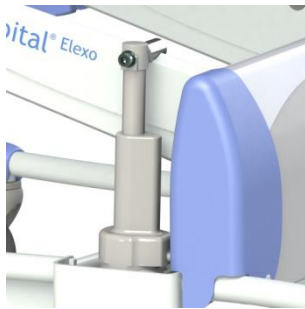


Figure 1 Screw actuator

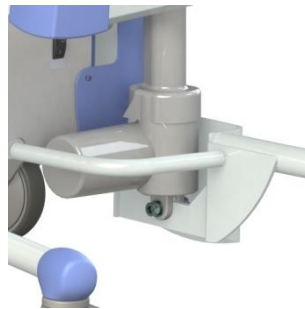


Figure 2 Screw actuator

- Motor cover still present and not torn?
- Check whether all the retaining rings are present (8 in total). If not present then it should be placed, otherwise rejected the chair.
- Does the chair move up and down smoothly?



Figure 3 Retaining rings

For reasons of hygiene, it is strongly recommended to replace the seat, lid and back once every 5 years.

Present:

- Foot supports (not a failure item)
- Lid of seat (not a failure item)
- Charger

Required tools

- Battery tester
- Contactspray

2. Batteries

| Month | 12 | 24 | 36 | 48 | 60 | 72 | 84 | 96 | 108 | 120 |
|-------|----|----|----|----|----|----|----|----|-----|-----|
| | C | C | A | C | C | A | C | C | A | C |

- A battery can be checked only when it is charged! Measure batteries individually.
- Replace if $\leq 4,5\text{Ah}$ ($\leq 65\%$)
- Always replace both batteries.
- Write the replacement date on the battery (waterproof pen) and put a new sticker on the rear of the motor cover.

It is strongly recommended to replace the battery once every 3 years.

Method:

Put the chair in a high position and detach the plug from the manual controls.

1. Remove pressure nails at the front (2x).

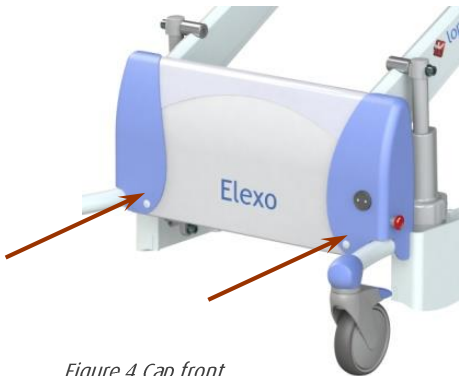


Figure 4 Cap front

2. Unscrew screws at the back (2x) and detach end covers.

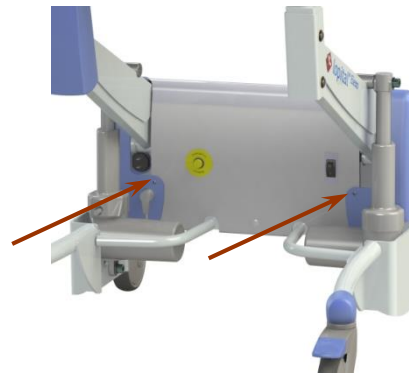


Figure 5 Cap Back

Please note: the charger connector is attached to the cover.

3. The front part of the battery cover can now be tilted up.



Figure 6 Battery cap

4. Replace batteries. Write the replacement date on the battery. Connect all the cables; the red positive pole should be connected last. Refit cap and secure. Test chair.

3. Battery charger

| Month | 12 | 24 | 36 | 48 | 60 | 72 | 84 | 96 | 108 | 120 |
|-------|----|----|----|----|----|----|----|----|-----|-----|
| | C | C | C | C | C | C | C | C | C | C |

Required tools

- NEN 3140 Test equipment

- The charger must be tested each year in accordance with NEN 3140 and provided with an identification sticker and NEN 3140 sticker.
- Check charger for any damage (plug + cable + contact); if the cable is damaged, replace the whole charger.
- Check the charging voltage; it should be at least the value as indicated on the charger, and be more than 27 Volt.
- Check whether there is too much corrosion on the connectors; also check the charger connector on the chair.



Figure 7 Charger

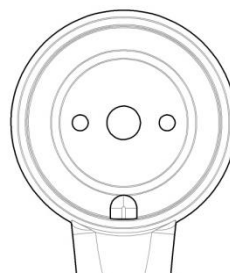


Figure 8 Charge plug

4. Operation and Lock button

| Month | 12 | 24 | 36 | 48 | 60 | 72 | 84 | 96 | 108 | 120 |
|-------|----|----|----|----|----|----|----|----|-----|-----|
| | C | C | C | C | C | C | C | C | C | C |

Required tools

-

- Check manual controls and cable for any damage.
- Check whether all the buttons function properly.
- Check all functions. Also pay attention to any noise (rattling /squeaking) and any jolting/faltering.
 - Fully up/down (controls switching off at maximum position).
- The chair should go into "sleep mode" when the charger is connected.
- Check emergency lowering button.
 - Press button (without pressing manual controls)
 - Press "up" and "emergency lowering" button at the same time; the chair now SHOULD lower.



Figure 9 Emergency stop



Figure 10 Emergency Lowering



Figure 11 Manual control

Method:

- Put the chair on the brake.
- Block the downward movement of the chair by putting something (e.g. a beam) between the floor and the chair support / scissor mechanism, and check whether the chair switches itself off (you should hear a "click").
- Ensure that the downward movement stops.
- Check the left and right section of the scissor mechanism separately.

5. Wheels

| Month | 12 | 24 | 36 | 48 | 60 | 72 | 84 | 96 | 108 | 120 |
|-------|----|----|----|----|----|----|----|----|-----|-----|
| | C | C | C | C | C | C | C | C | C | C |

Required tools

- Allen key 8mm

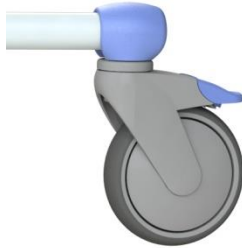


Figure 12 Wheel



Figure 13 wheel exploded

- Check the attachment of the wheel (Tolerance)
- Check freewheel function + brakes.
- Do all four the wheels touch the floor on a flat surface? If not, check the chair right course.
- Brake lip intact?
- Check the tread.

Replace the wheels if they are damaged or worn.

Older wheels, before July 2014

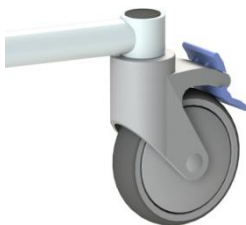


Figure 14 Wheel

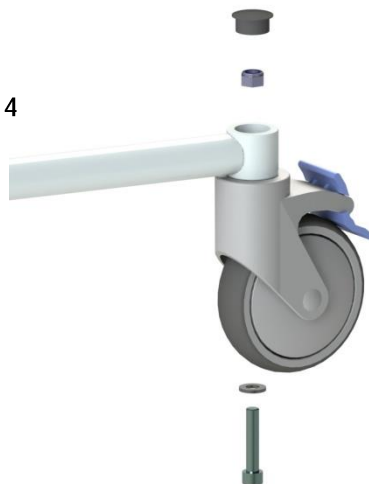


Figure 15 Wheel exploded view

Required tools

- Boxspanner 17 mm
- Allen key 8 mm

- Check the attachment of the wheel (Tolerance)
- Check freewheel function + brakes.
- Do all four the wheels touch the floor on a flat surface? If not, check the chair right course.
- Brake lip intact?
- Check the tread.

Replace the wheels if they are damaged or worn.

Chairs that are made before July 2014 are equipped with steel wheel clots. For those clots we have a cover to protect against damage.

Place the cover on the steel wheel clots, is it is not done already.

- Remove the decorative plug
- Is there corrosion on the wheel clots?
- Remove loose corrosion with a wirebrush.
- Treat the wheel clots with rust converter Noverox.
- Paint the wheel clots.
- Let the paint dry.
- Place the cover over the wheel clots.

Required tools

- Plastic hammer
- Rust converter Noverox

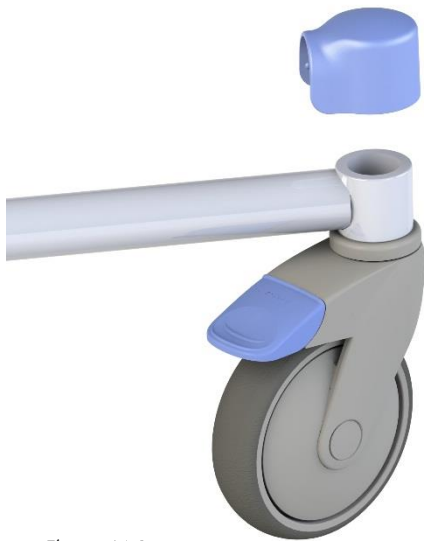


Figure 16 Cover

6. Arm rests (front closure)

| Month | 12 | 24 | 36 | 48 | 60 | 72 | 84 | 96 | 108 | 120 |
|-------|----|----|----|----|----|----|----|----|-----|-----|
| | C | V | C | V | C | V | C | V | C | V |

Required tools

- Allen key 6mm

- Inspect its functioning, and check for any damage, corrosion.
- Check its room for motion, measured at the front point (replace if it is more than 4 cm.) (See figure 17).
- Always treat corrosion.
- Are the arm supports evenly positioned?
- Slide PUR back if necessary.
- The stainless-steel (A2) bolts should always be replaced by M8x12 DIN912 Zincflake.
- Fastly secure bolts. (See figure 18)

Replace bolts once every 2 years.

Look for an exploded view on www.lopital.nl



Figure 17 Armrest

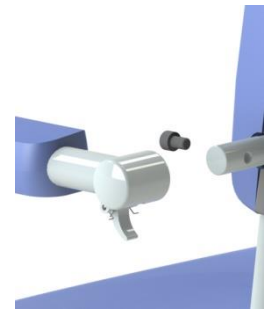


Figure 18 Bolt

7. Foot support

| Month | 12 | 24 | 36 | 48 | 60 | 72 | 84 | 96 | 108 | 120 |
|-------|----|----|----|----|----|----|----|----|-----|-----|
| | C | C | C | C | C | C | C | C | C | C |

Required tools

- Allan kev 4mm

- Check for any damage.
- Fold up foot plates (should be stiff and stay upright). (They should remain in the folded position, without falling back automatically)
- Are the foot plates evenly fitted and slanting upwards a little towards the middle?
- Check M5x10 (bottom of plate), and replace stainless-steel bolts with ELVZ 8.8 bolts. (See figure 19)
- Check if the footrest clamps are tight

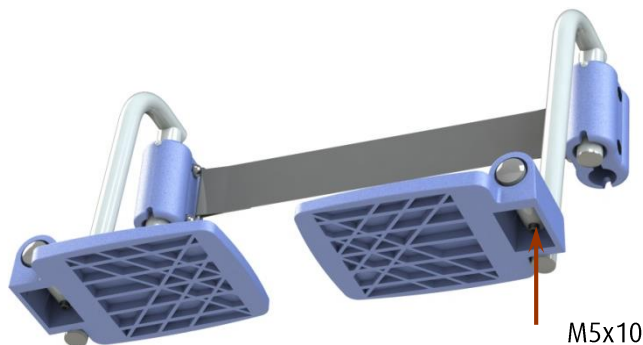


Figure 19 Foot rest



Creating balance in healthcare



For more information, visit our website: www.lopital.com

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