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Foreword

Thank you for purchasing ARJO equipment

Your Concerto/Basic is a part of a world-wide family of quality products designed especially for hospitals, nursing homes and other health care use. We are dedicated to serving your needs and providing the best products available along with training that will bring your staff maximum benefit from every ARJO product.

Please contact us if you have any questions about the operation or maintenance of your Concerto/Basic.

Please read this manual thoroughly!

Please read this manual in its entirety before using your Concerto/Basic. Information in the manual is crucial to the proper operation and maintenance of the equipment, and will help protect your product and ensure that the equipment performs to your satisfaction. Some of the information in this booklet is important for your safety and must be read and understood to help prevent possible injury.

ARJO strongly advise and warn that only ARJO designed parts, which are designed for the purpose, should be used on equipment and other appliances supplied by ARJO, to avoid injuries attributable to the use of inadequate parts.

Unauthorised modifications on any ARJO equipment may effect its safety. ARJO will not be held responsible for any accidents, incidents or lack of performance that occur as a result of any unauthorised modification to its products.

Service and Support

A service routine has to be done on your Concerto/Basic every year by ARJO qualified service personnel to ensure the safety and operating procedures of your product. See chapter Preventive Maintenance Schedule.

If you require further information, please contact your local ARJO representative which can offer comprehensive support and service program to maximize the longterm safety, reliability and value of the product.

Contact your local ARJO representative for replacement parts. Your service representative stocks the parts you will need. The telephone number appears on the last page of this manual.

Symbols in this manual

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Meaning</th>
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<tr>
<td>WARNING!</td>
<td>Safety warning. Failure to understand and obey this warning may result in injury to you or to others.</td>
</tr>
<tr>
<td>NOTE!</td>
<td>This is important information for proper use of this system or equipment</td>
</tr>
<tr>
<td>CAUTION!</td>
<td>Failure to follow these instructions may cause damage to parts or systems.</td>
</tr>
</tbody>
</table>

Directional markers

The directions right and left are given from the position of an operator standing at one end of the Concerto/Basic (rear) looking toward the drainage end (front).
Intended use

This equipment is intended for bathing and showering hospital or care facility residents under the supervision of trained skilled nursing staff in accordance with the instructions outlined in the Operating and Product Care Instructions.

All other uses must be avoided.

Equipment fitted with a Shower panel disinfection device must be disinfected according to the instructions established in the Operating and Product Care Instructions. All other uses of the disinfection device must be avoided.

The equipment must only be used for the purposes stated above, and must be installed according to the Assembly and Installation Instructions, which can only be superseded by local code.

The useful life of this equipment, unless otherwise stated, is ten (10) years, subject to required preventative maintenance as specified in the Operating and Product Care Instructions, Assembly and Installation Instructions and Parts List catalogues.

NOTE!
The equipment must be used in accordance with these safety instructions. Anyone using the equipment must also have read and understood the instructions in this booklet. If there is anything you are not sure about, ask your ARJO representative.

Always make sure that:

- the equipment is handled by trained staff.
- the water temperature is checked before showering and that the thermostats are working.
- the equipment is disinfected after each shower.
- the Concerto/Basic is moved with care, especially in narrow passages, over bumps, etc.
- the Concerto/Basic is moved in the correct direction i.e. along the trolley, during resident transportation.

WARNING!
Make sure that the resident is lying/sitting in the middle of the stretcher with their arms on the chest.

- the wheels and brakes work freely.
- the wheels are locked on the Concerto/Basic during resident transfer from/to bed/wheelchair etc. and when the Concerto/Basic is stationary.
- bed/wheelchair wheels are locked during resident transfer from/to bed/wheelchair.
- all screws are tightened.
- the hydraulic system is working smoothly (raising and lowering).
- there are no sharp edges on parts coming in contact with residents.

WARNING!
Do not overload! The lifting capacity of the Concerto/Basic is 150 kg.

General safety practices for batteries (Concerto electric)

- Only use the charger unit supplied with the equipment.
- Do not charge batteries in a sealed container.
- Do not place batteries near a heat source or fire.
- Do not place batteries in a fire.
- Do not short circuit a battery.
- Do not store batteries at temperatures higher than 60 °C.
- Do not crush, puncture, open, dismantle or otherwise mechanically interfere with batteries.
- Should the battery casing become cracked and electrolyte come into contact with skin or clothing, wash immediately with water. If the electrolyte comes into contact with the eyes, wash with copious amounts of water and seek medical attention immediately.
- Contact the appropriate local authority for advice when disposing of the battery.
Introduction

The Concerto is available in two different versions, oil hydraulic and electrical battery operated.

The Basic is oil hydraulic operated.

Part designations

1 Shower mattress
2 Hand control (Concerto electric)
3 Stretcher
4 Battery (Concerto electric)
5 Straight steering (Concerto)
6 Wheel brake
7 Drainage
8 Catches for side support
9 Side support
10 Filling plug for hydraulic oil (Concerto electric)
11 Horizontal lock (Concerto)
12 Pedal for raising/lowering (Concerto hydraulic, Basic)
13 Filling plug for hydraulic oil (Concerto hydraulic, Basic)
1 Unpack the *Concerto/Basic*.
2 Cut the strap that is fixing the side supports under the stretcher.
3 Raise the side supports.
4 Check that the bag on the strap contains the parts to mount the head- and foot supports and the oil plug.

The head- and foot supports at the short ends of the stretcher are mounted upside down when delivered. The head support is turned 180° sideways as well.

5 Loosen the screws on the head- and foot supports. Use the 5 mm Allen key in the bag with the oil plug. Turn the supports 180° upwards and the head support 180° sideways as well.

6 Place the head support in one of its three positions and the foot support in its only position.
7 Tighten the screws.

8 Remove the transport plug for oil container. Use the Allen key in the bag with the oil plug.
9 Assemble the oil plug from the bag as shown in the figure.
Manual raising and lowering *(Concerto hydraulic, Basic)*

The pedal can be used from both sides of the *Concerto/Basic*. Press it with your foot and slide it over to the other side when necessary.

1. The stretcher is raised by pumping the pedal. Pump evenly, using the full range of movement.
2. The stretcher is lowered by pressing the pedal down as far as it will go.

Electric raising and lowering *(Concerto electric)*

Unhook the hand control from its holder.

To raise the *Concerto*, press the “up” arrow button on the hand control.

To lower the *Concerto* press the “down” arrow button.

Mattress

**Attaching the mattress**

1. Fold down the side supports.
2. Press the draining part of the mattress into the stretcher in order to get the right position.
3. Snap the side strip of the mattress round the other side of the stretcher.
4. Snap the edge of the side strip around the stretcher. Press and drag the palm along the side strip to fasten.

**Removing the mattress**

1. Fold down the side supports.
2. Undo the edge of the side strip. Pull and drag along the side strip to detach the mattress.
3. Push the mattress towards the other side of the stretcher so the other side strip loosens.
4. Loosen the drainage outlet from the stretcher by lifting the end part of the mattress straight up.
Side supports

The side support is fold down by pressing the two catches simultaneously. When raising the side supports, make sure the two catches snap into place.

Brakes

The wheels are braked by pressing the wheel lock tab (A) with your foot.

The wheels are released by pressing down the centre tab (B).

Straight steering *(Concerto)*

To facilitate transportation in corridors etc., the *Concerto* is fitted with straight steering device.

The straight steering is activated by pressing the tab with your foot.

Release by lifting the tab with your foot.

Length adjustment of stretcher

The support at the top end of the shower trolley can be adjusted to alter the length of the stretcher. Unscrew the two screws and move the support to the desired position. Then tighten the screws securely.
Tilting the stretcher (Concerto)

The stretcher can be tilted to facilitate cleaning and disinfection.

1. Press the button, then move the catch to one side and
2. Tilt the stretcher.

This operation is easier done with the wheels of the trolley braked.

**WARNING!**
Make sure the catch has locked (klick sound) the stretcher after putting it back in place.

Drainage/Drainage hose

The mattress design combined with the slope of the stretcher ensures proper drainage.

If the shower is used over a floor drain, the flexible drainage hose can be connected to reduce splashing.

With your Concerto/Basic equipment either drainage hose type 1 or drainage hose type 2 is included. (See figure 1.)

**Attaching the drainage hose**

*Instruction for drainage hose type 1.*  
(See figure 2.)

1. Insert the drainage hose through the drainage hole of the shower mattress and the stretcher.
2. On the underside of the stretcher, screw the sleeve to the top end of the hose.

*Instruction for drainage hose type 2.*  
(See figure 3.)

1. Insert the coupling through the drainage hole. On the underside of the stretcher, screw the sleeve to the coupling.
2. Insert the drainage hose coupling and turn clockwise to lock it.

To remove the drainage hose, make the above described operations in reverse order.

Before transportation, put the drainage hose nozzle into the holder.  
(See figure 4.)
Horizontal position

The shower trolley always adjust automatically to a horizontal position when it is lowered onto a bed.

Horizontal lock *(Concerto)*

The trolley is also equipped with a special fitting which locks it in a horizontal position for transport or when the mattress is to be filled with water.

Move the lever (A) to the right and the trolley is locked in horizontal position.

Adjustable back support *(accessory for Concerto)*

Pull the back support to the desired position when you want to raise it. Make sure that the catch is in a locked position.

To lower, press the catches (A) while lowering the back support carefully.

Wedge pillow *(accessory)*

The wedge pillow can be placed at the top end of the mattress for higher comfort.
The side supports must always be raised to provide support during transport of residents.

Hold the support at the top end of the Concerto/Basic so that the resident is wheeled with his feet first.

WARNING!
If the resident’s position is not in the middle the Concerto/Basic may tip over causing serious injury to the resident and the caregiver.
7 Wheel the resident to the shower.

**To bed**
To transfer resident back to bed, perform “Transfer from bed” in reverse order.

**From wheelchair**
1 Apply the brakes of the wheelchair, remove the armrest and push the footrests upwards.
2 Fold the side support of the *Concerto/Basic* and place it right beside the wheelchair.
3 Lower the *Concerto/Basic* to the same level as, or slightly above, the seat of the wheelchair. Move the *Concerto/Basic* as close as possible to the wheelchair.
4 Apply the brakes of the *Concerto/Basic*.
5 Let resident move from the wheelchair to the *Concerto/Basic* by himself or assist if necessary. Make sure the resident is sitting/lying in the middle of the mattress both length and breadthwise.

**WARNING!**
If resident's position is not in the middle the *Concerto/Basic* may tip over causing serious injury to the resident and caregiver.

6 Allow the resident to lie down, remove the wheelchair and raise the side support.

7 Wheel the resident to the shower.
In case you have an ARJO Shower panel, use it according to separate instruction.

1. Wheel the Concerto/Basic to the ARJO combination panel or to a combination of resident shower and a sink.

2. Make sure that the drainage hole comes over the sink.

3. Brake the wheels and lower/raise the Concerto/Basic to a comfortable working height.

4. The resident shower is on the right hand side of the panel.

5. Lift off the shower handle and hold it over the Concerto/Basic.

6. Set the thermostat mixer at the desired temperature.

**WARNING!**

*Point the flow of water away from the resident! Always check the water temperature with your hand first!*

7. Turn on the shower water by turning the valve.

8. Check the temperature and the flow of water from the shower handle.

9. Adjust the temperature with the thermostat mixer and the flow of water with the valve.

10. After the shower, turn off the water with the valve and dry the resident.

11. Release the brakes and wheel the resident back.
For optimal performance use only ArjoClean.

In case you have an ARJO combination panel, use it according to separate instruction.

Procedure to be carried out at the beginning of the day and after each shower:

1. Drain water.
2. Remove drainage hose (if applied) with all parts. (See instruction on page 10).
3. Loosen the mattress (See instruction on page 8).
4. Spray both upper- and underside of the mattress and in- and outside of the drainage hose with all parts with disinfectant. Use the disinfection spray handle (A).
   A spray bottle (B) containing disinfectant, mixed according to the instruction on the label of the disinfectant bottle, may also be used.
5. Tilt the stretcher (Concerto).
   Spray both upper- and underside of it with disinfectant.
6. Scrub the mattress and frame with a cloth or disposable towel.
7. Allow minimum two minutes for the disinfectant to work.
8. Rinse with cold water.
9. Hang the mattress over the stretcher to dry. If the water is hard, dry the Concerto/Basic parts with a clean towel.

**CAUTION!**
Do not use petroleum-based solvents, trichlorethylene etc., since they may damage the PVC-coated cloth. If a hot air drier is used, the temperature must not exceed 80 °C.

For any questions regarding the proper disinfection procedure or for liquid product ordering information, call our Liquid Product Consultants at the office listed on the back cover.
Charging intervals
To prolong the life of the battery, charge it at regular intervals, i.e. every night. If the lift is used frequently, it is recommended to use two batteries, one in operation and one stand-by in the charger.

Low charge warning
The low charge battery warning lamp is placed on the cover to the hydraulic unit on the chassis. If the battery is starting to run low, the warning lamp will light by pushing buttons on the hand control. The battery should then be recharged as soon as possible.

How to change the battery
1. Open the battery cover.
2. Unplug the battery connector.
3. Grip the battery with one hand and pull it off its seating with the other hand.
4. Plug the battery charger into a grounded AC outlet. Place the battery in the charger (A). Plug the battery connector into the charger’s contact (B). When the indicator lamp goes out, the battery is fully charged.

Storage of batteries
Upon delivery the batteries are fully charged.
When stored, a battery will slowly self discharge. Keep the batteries cool (but never below 0 °C) and re-charge the stored batteries every six months.

NOTE!
To avoid loss of operation, charge the battery when the warning lamp is flashing. Don’t wait until the low charge warning is lit.

NOTE!
The battery can be left in the charger unit even if it is fully charged without being damaged.

NOTE!
The battery is heavy, be careful not to drop it!

WARNING!
Grip the plug itself when unplugging the battery connector. Do not pull by the cord.

Change of batteries (Concerto electric)

NOTE!
To avoid loss of operation, charge the battery when the warning lamp is flashing. Don’t wait until the low charge warning is lit.

NOTE!
The battery can be left in the charger unit even if it is fully charged without being damaged.

NOTE!
The battery is heavy, be careful not to drop it!

WARNING!
Grip the plug itself when unplugging the battery connector. Do not pull by the cord.
The *Concerto/Basic* is subject to wear and tear, and the following actions must be performed when specified to ensure that the product remains within its original manufacturing specification.

**WARNING!**
The points on this checklist are the minimum the manufacturer recommends. In some cases due to heavy use of the product and exposure to aggressive environment, more frequent inspections should be carried out. Continuing to use this product without conducting regular inspections or continuing to use this product when a fault is found will seriously compromise the user and residents safety. Local regulations and standards may be higher than the manufacturers. Preventive maintenance specified in this manual can prevent accidents.

### PREVENTIVE MAINTENANCE SCHEDULE

<table>
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<tr>
<th>Care giver obligations</th>
<th>Every DAY</th>
<th>Every WEEK</th>
<th>Every YEAR</th>
<th>Every 2:nd YEAR</th>
</tr>
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<tr>
<td>Cleaning/Disinfection</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Visually check all exposed parts</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Visually check mechanical attachments</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Perform functionality test</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Check handset and cable (<em>Concerto electric</em>)</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Check and clean wheels</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Visually check battery charger and battery (<em>Concerto electric</em>)</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Check mattress/pillows</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Qualified personnel</th>
<th>Every DAY</th>
<th>Every WEEK</th>
<th>Every YEAR</th>
<th>Every 2:nd YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Check battery and battery charger (<em>Concerto electric</em>)</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Check oil level (<em>Concerto hydraulic, Basic</em>)</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Replace catches on each side support</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Check all vital parts for corrosion/damage</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Perform full feature functionality test</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Check mechanical attachments</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Check that the latest updates have been implemented</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Perform a safe working load test, (local requirements)</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Replace wheels</td>
<td>X*</td>
<td></td>
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</tbody>
</table>

**FOR UK ONLY:** LOLEL and PUWER legislation requires 6 monthly thorough examination and annual service, or an alternative scheme, carried out by a competent person.

* NOTE! Wheels may require more or less frequent service/replacement, due to heavy use of the product and exposure to aggressive environment.
Customer obligations shall be carried out by qualified personnel following the instructions in this manual.

**Trouble shooting**
If the product does not work as intended, immediately contact your local ARJO representative for support.

**Every day**
*Concerto/Basic* has to be cleaned immediately after usage. Standard cleaning agents and shampoos should be used in recommended concentrations. See further disinfecting/cleaning instructions on page 15.

**CAUTION!**
Do not use phenol, citric acid or petroleum based solvents, trichloroethylene or similar cleaning agents, as these may damage the plastic material. If a warm air drier is used, the temperature should not exceed 80 °C. Steam or ethylene oxide sterilization can not be used either.

**Every week**
- Visually check all exposed parts, especially where personal contact is made by either the resident or caregiver. Make sure no cracks or sharp edges have developed that could cause the resident or user injury or that has become unhygienic. Replace damaged parts.
- Check drainage hose with all parts (1) Replace damaged parts.
- Check mechanical attachments (*Concerto*):
  Tilt the stretcher. Visually check the two bolts holding the stretcher to the chassis. No gaps are allowed (2a).
- When tilted check for cracks in the stretcher on the positions shown in the illustration below (2b).
- Perform functionality test, check:
  - catches on the side supports (3a)
  - back support catches (*Concerto*) (3b)
  - tilt function (*Concerto*) (3c)
  - horizontal lock (*Concerto*) (3d).
- Check handset and cable (*Concerto electric*):
  Visually check the condition of the handset and its cable. Replace if damaged (4).
- Check and clean wheels:
  check that the wheels are properly fixed and are rolling and swivelling freely. Clean with water (the function can be affected by soap, hair, dust and chemicals from floor cleaning). Check brakes and straight steering devices (5).
- Visually check battery charger and battery (*Concerto electric*):
  Visually check the condition of the battery charger, its cable and the battery.
  Withdraw and replace immediately if damaged (6).
- Check the mattress/pillows, to make sure there are no cracks or tears that would allow water to get into the filling. If there is such damage, replace damaged parts to avoid cross-infection (7).

**Yearly**
*Concerto/Basic* has to be serviced according to the Preventive Maintenance Schedule (ARJO qualified...
Concerto Electric

Lifting capacity ................................................................. 150 kg
Weight ................................................................. 80 kg
Width (stretcher) ................................................................. 650 mm
Total width (incl. side supports) ........................................ 760 mm
Alt 1: Total length ........................................................... 1600 mm
Alt 2: Total length (different stretcher lengths) ............
                                                                 1850-1900-1950 mm
Alt 3: Total length ........................................................... 2250 mm
Length of chassis (incl. wheel frame) ......................... 980 mm
Max internal length of chassis ........................................ 820 mm
Max external width of chassis ....................................... 700 mm
Min external width of chassis ....................................... 300 mm
Height of chassis ............................................................ 150 mm
Height, top position to stretcher ................................... 870 mm
Height, low position to stretcher .................................... 570 mm
Stroke range ................................................................... 300 mm
Colour .................................................................. grey and blue

Medical equipment ......................................................... type
Engine power ................................................................. 200 VA

Environmental conditions – transport/storage ............
                                                                 80 %, 20 °C, 760 mm Hg
Atmospheric pressure ............................................ unessential
Duty cycle ................................................................. 10%

Battery No. 102193 ......................................................... sealed lead-acid
                                                                 battery 12 V, 6.5 Ah
Protection class ........................................................ IP X4
Fuse ................................................................. T15AL 250 V
Concerto Hydraulic
Lifting capacity 150 kg
Weight 74 kg
Width (stretcher) 650 mm
Total width (incl. side supports) 760 mm
Alt 1: Total length 1600 mm
Alt 2: Total length (different stretcher lengths) 1850-1900-1950 mm
Alt 3: Total length 2250 mm
Length of chassis (incl. wheel frame) 980 mm
Max internal length of chassis 820 mm
Max external width of chassis 700 mm

Hydraulic labeling
On the Data label you will find the following information:
• Maximum lifting capacity, 150 kg
• Stroke 320 mm
• Protection class IP X4
• Type B
• Max total weight 224 kg
• Read the operation manual before use

Electrical labeling
On the Data label you will find the following information:
• Maximum lifting capacity, 150 kg
• Stroke 300 mm
• Supply voltage 12 V DC
• Engine power 200 VA
• Fuse T15AL 250 V
• Protection class IP X4
• Type B
• Max total weight 230 kg
• Product no. of the battery
• Read the operation manual before use
• Separate electrical and electronic components for recycling

Labels
Data label (Concerto electric)
Data label (Concerto hydraulic, Basic)
Manufacturing country
SE=Sweden
Manufacturing works
E=Eslöv
Year
Week
Serial number
SEE0102001

Product no.
AR31211-EU
Serial no.
SEE0102001

Example of identification label

Approval label

Battery connection (Electrical)
Accessories

The Battery connection label is placed inside the battery box and you will find the following information on it:

- Product No. of the battery
- Voltage: 12 V
- Capacity: 6.5 Ah
- Where to place the battery cable

Approval label

Identification labels
The identification labels state the type of equipment and serial number.

Wedge pillow

Adjustable backrest

Extra battery

Battery charger

Shower Panel
BCA 1204/1202/1201-04

Shower Panel
BCA 1214/1212/1211-04
**Accessories**

**Extra high side support**
- BDA0815/0816-90

**Sink**
- BDA0890/0891-04

**Flush sink**
- BDA0890/0891-04

**Disinfectant/cleaner**

**Shower Panel**
- BCA 1224/1222/1221-04

Support frame 100836
Support handle 100837

References

- Published
- Check occasionally for new editions

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