

INSTRUCTIONS FOR USE

Malibu / Sovereign

(2021 Edition)



WARNING

To avoid injury, always read this Instructions for Use and accompanied documents before using the product.

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Foreword

Thank You for Purchasing Arjo Equipment

Your Malibu/Sovereign® bathtub is part of a series of quality products designed especially for hospitals, nursing homes and other health care uses.

Please contact us if you have any questions about the operation or maintenance of your Arjo equipment.

Please Read this *Instructions for Use* Thoroughly!

Please read this *Instructions for Use (IFU)* in its entirety before using your *Malibu/Sovereign* bathtub. Information in this *IFU* is crucial to the proper operation and maintenance of the equipment, will help protect your product, and make sure that the equipment performs to your satisfaction. Some of the information in this *IFU* is important for your safety and must be read and understood to help prevent possible injury.

Unauthorized modifications on any Arjo equipment may affect its safety. Arjo will not be held responsible for any accidents, incidents or lack of performance that occur as a result of any unauthorized modification to its products.

Report Unexpected Operations or Events

Contact your local Arjo representative if any unexpected operations or events occur. The contact information appears on the last page of this *IFU*.

Serious Incident

If a serious incident occurs in relation to this medical device, affecting the user, or the patient then the user or patient should report the serious incident to the medical device manufacturer or the distributor. In the European Union, the user should also report the serious incident to the Competent Authority in the member state where they are located.

Service and Support

A service routine must be performed on the *Malibu/Sovereign* bathtub to make sure the safety and operating procedures of your product.

See section *Care and Preventive Maintenance* on page 44.

If you require further information, please contact Arjo for comprehensive support and service programs to maximize the long-term safety, reliability and value of the product.

Contact Arjo for replacement parts. Contact information appears on the last page of this *IFU*.

Symbols definition in this *IFU*:

WARNING

Means:

Safety warning. Failure to understand and obey this warning may result in injury to you or to others.

CAUTION

Means:

Failure to follow these instructions may cause damage to all or parts of the system or equipment.

NOTE

Means:

This is important information for the correct use of this system or equipment.



Means:

The name and address of the manufacturer.

Pre-sale information

General	
Intended use, the intended user group and the intended environment; including any contraindications	See Intended Use on page 6
Expected lifetime of the product	See Intended Use on page 6
Maximum user mass:	130 kg (287 lb)
Minimum user mass:	Not Applicable
Maximum load (user+water)	
Malibu 1600:	367 kg (810 lb)
Malibu 1700:	415 kg (915 lb)
Sovereign:	345 kg (761 lb)
Operating forces of controls:	
Push buttons on hand control and panel	3±1 N
Emergency stop	10±1 N
Accessories:	See Parts and Accessories on page 60
Detachable parts:	Safety Belt Commode seat Neck support/pillow
Compatible products	See Allowed combinations on page 54
The A-weighted sound power level	<80 dBA
Name and address of the manufacturer	See back page

Dimensions	
Product Weight (max without packaging)	172 kg (380 lb)
Detachable parts above 10 kg	Commode seat (12,5 kg = 12 lb)
Turning circle:	Space Requirements in mm. See pages 32-34
Overall	Space Requirements in mm. See pages 32-34

Intended Use

This equipment must be used in accordance with these safety instructions.

Anyone using this equipment must also have read and understood the instructions in these Instructions for Use (IFU).

If there is anything that remains unclear, contact your Arjo representative.

The Malibu/Sovereign bathtub is intended for assisted bathing and showering of dependant patients and residents in hospitals and care facilities or in home care environment.

The transfer chassis (optional) is intended for indoor use only.

Malibu/Sovereign must be used by appropriately trained caregivers with adequate knowledge of the care environment, its common practices and procedures, and in accordance with the guidelines in the Instructions for Use (IFU). Transfer to the bathtub shall take place by means of an appropriate transfer device.

The bathtub must be disinfected according to instructions in the IFU.

The Malibu/Sovereign should only be used for the purpose specified in the Instructions for Use.

Any other use is prohibited.

Indication for Use

The Malibu/Sovereign bathtub can be used for alleviation of, or compensation for an injury or disability associated with dependant persons with reduced mobility.

Patient/Resident assessment

We recommend that facilities establish regular assessment routines. Caregivers must assess each patient/resident according to the following criteria prior to use:

- The patient/resident must be able to sit in an upright position, normally defined as active or semi-active.
- The patient/resident weight must not exceed 130 kg / 286 lbs.
- The patient/resident must understand and be able to respond to instructions to stay seated in an upright position.

- The patient's/resident's length must be in the range of 140 and 200 cm (4' 7" - 6' 6").

If the patient/resident does not meet these criteria an alternative equipment/system shall be used.

Installation requirements

The equipment must be installed by appropriately trained personnel according to the Assembly and Installation Instructions. Requirements in the Assembly and Installation Instructions can only be superseded by local code.

Expected Service Life

The expected service life of Malibu is the maximum period of useful life.

The expected service life of this equipment is ten (10) years, the expected service life of the seat is five (5) years and two (2) years for the safety belt. The expected service life is stated providing that the preventive maintenance are being carried out in accordance with the instructions for care and maintenance in the Instructions for use (IFU).

Depending on level of wear some equipment parts such as hand control and castors on the transfer chassis (optional) may need to be replaced during the equipment life time according to the information in the Instructions for use (IFU).

Safety Instructions

WARNING

To avoid injury, make sure that the patient is not left unattended at any time.

WARNING

To avoid falling, make sure that the patient is positioned in accordance with this *IFU*.

WARNING

To avoid falling, make sure the patient always remains in a seated position.

WARNING

To avoid entrapment, make sure the path of the movement is free from obstacles.

WARNING

To avoid entrapment of the patients or caregivers legs or feet, make sure that they are kept clear of all obstacles.

WARNING

To avoid entrapment, make sure to keep the patients hair, arms and feet close to the body and use designated grab supports during any movement.

WARNING

To avoid explosion or fire, never use the equipment in oxygen rich environment, in presence of heat source or flammable anaesthetic gases.

WARNING

To avoid electric shock, never use other electrical equipment near this device other than specified in the *IFU*.

WARNING

To prevent cross-contamination, always follow the disinfection instructions in this *IFU*.

WARNING

To avoid the device from tipping and the patient from falling, do not use the equipment on floor with recessed drains, holes or slopes exceeding a ratio of 1:50 (1.15°).

Preparations

Site Preparations

Prior to installation of the *Malibu/Sovereign* bathtub the floor and walls within the required area must be finished.

See the instruction in the *Site Preparation*.

Actions Before the First Use (9 steps)

- 1 Make sure that the *Malibu/Sovereign* bathtub has been installed according to the *Assembly and Installation Instructions*.
- 2 Check that all parts of the product are supplied. Compare to section *Parts Designation on page 9*. If any part is missing or damaged - do NOT use the product.
- 3 Read the *IFU*.
- 4 Perform a functionality test according to section *Perform functionality test: on page 46*.
- 5 Clean and disinfect the product according to section *Cleaning and Disinfection Instructions on page 36*.
- 6 Choose a designated area, where the *IFU* should be kept and is easily accessible at all times.

WARNING

To prevent scalding, make sure that the thermostatic mixer has been calibrated. Confirm that responsible organization has established calibration routines.

- 8 Make sure the thermostatic mixer has been calibrated according to the *Assembly and Installation Instructions* by an Arjo technician or qualified personnel.
- 9 Make sure to have a rescue plan ready in case of a patient emergency.

Actions Before Every Use (4 steps)

- 1 Check that all parts are in place. Compare to section *Parts Designation on page 9*.
- 2 Check *Malibu/Sovereign* bathtub and accessories for damage.
- 3 If any part is missing or damaged - do NOT use the product.

4 WARNING



To prevent cross-contamination always follow the disinfection instructions in this IFU.

Before every use, make sure the *Malibu/Sovereign* bathtub is cleaned and disinfected according to section *Cleaning and Disinfection Instructions on page 36*

NOTE

If you have any questions, please contact your local Arjo representative for support and service. The contact information (*Arjo addresses*) is listed on the last page of this *IFU*.

Parts Designation

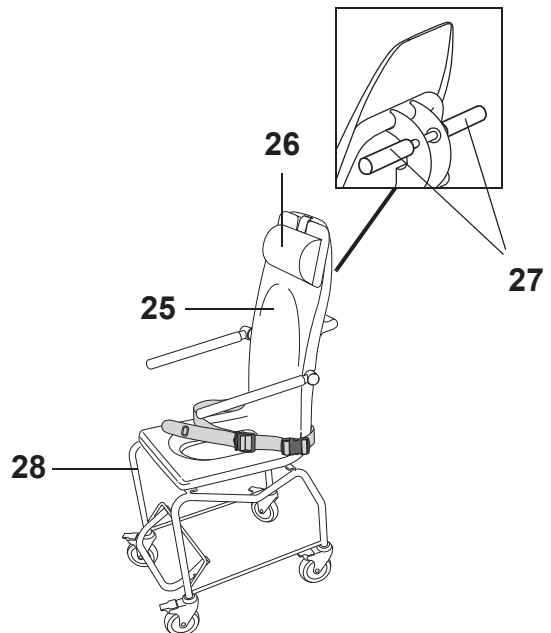
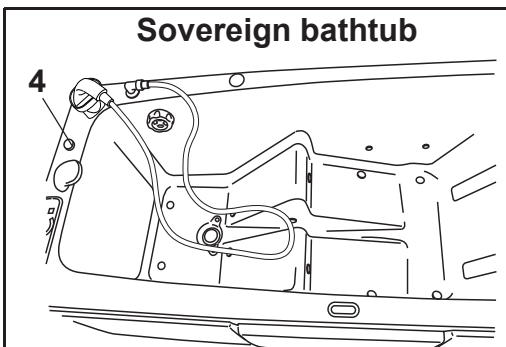
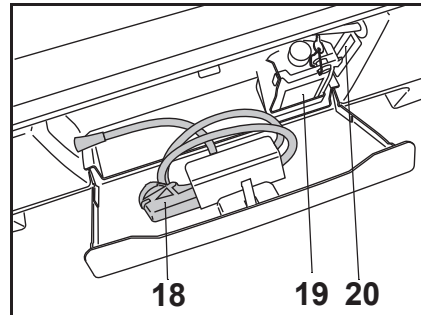
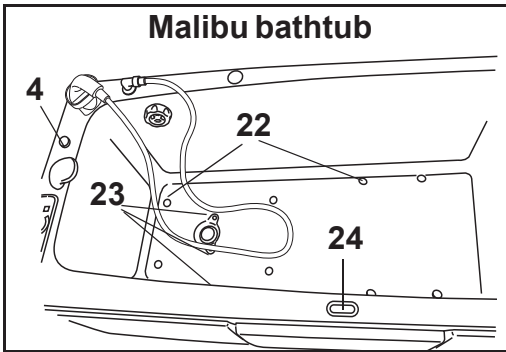
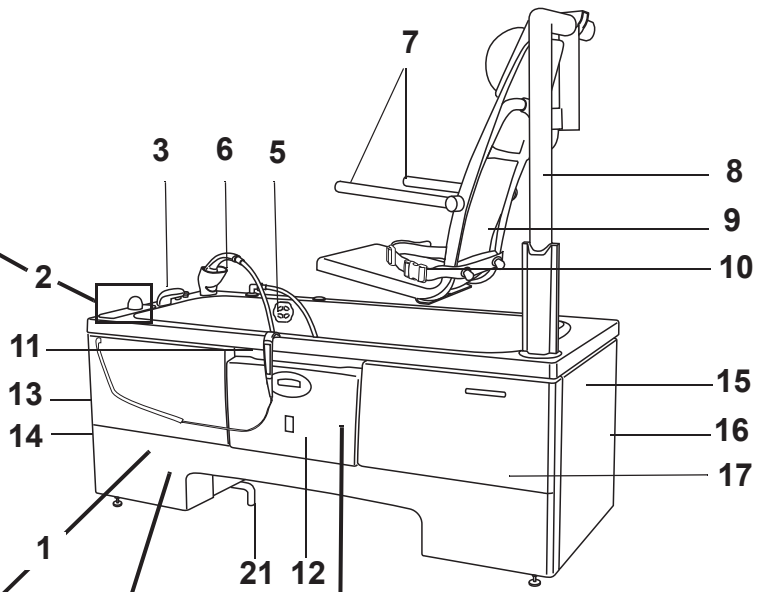
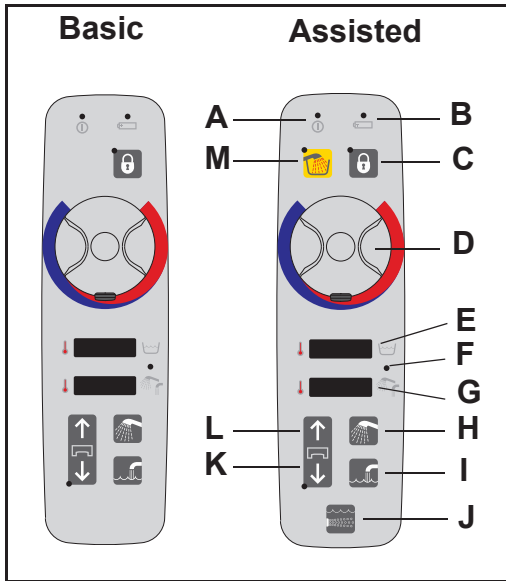
- 1 *Malibu/Sovereign* bathtub 
- 2 Control panel
 - Basic (No integrated disinfection)
 - Assisted (Integrated disinfection with/without Air Spa)
 - A) Mains power indicator
 - B) Battery level (Battery optional)
 - C) Patient lock out
 - D) Knob for setting of water temperature
 - E) Bathtub water temperature display
 - F) Scalding temperature indication
 - G) Filling/shower temperature display
 - H) Shower on/off
 - I) Bathtub filling on/off
 - J) Air Spa system on/off and speed regulation (optional)
 - K) Lower bathtub
 - L) Raise bathtub
 - M) Disinfection (optional)
- 3 Filling spout
- 4 Emergency stop
- 5 Pop-up drain control knob (built-in surface overflow outlet)
- 6 Shower handle and holder
- 7 Armrests
- 8 Lifting arm
- 9 Transfer chair 
- 10 Safety belt
- 11 Hand control
- 12 Disinfection unit door (optional)
- 13 Side cover (optional)
- 14 Corner cover (optional)
- 15 Side cover
- 16 Back cover (optional)
- 17 Front cover
- 18 Disinfection spray handle (bathtub with disinfection)
- 19 Disinfectant bottle (bathtub with disinfection)
- 20 Flow meter (bathtub with disinfection)
- 21 Drain pipe
- 22 Air Spa system nozzles - 8 nozzles (optional)

- 23 Water level sensors
- 24 Hand control holder
- 25 Transfer chair / Commode seat
- 26 Neck pillow
- 27 Driving handles
- 28 Transfer Chassis (optional)

Type B
Applied part; protection against electrical shock in accordance with IEC 60601.

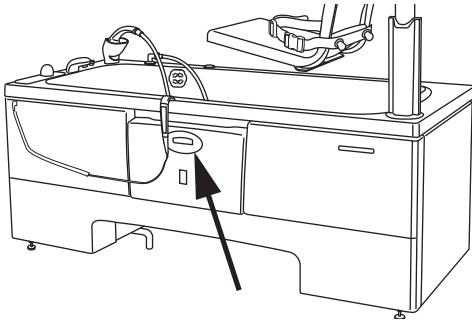


1



Product Description/Functions

Fig. 1



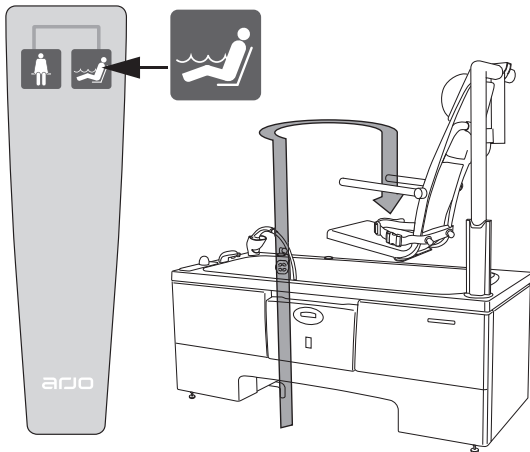
Malibu/Sovereign bathtub variants:

- Basic - No disinfection
- Assisted - Integrated disinfection with/without Air Spa

Hand Control

The hand control can be placed in the holder in the centre of the front panel when not in use. See Fig. 1

Fig. 2



Lift in

Push and hold the Lift in button and the lifting arm will complete a full sequence of movement; from outside the *Malibu/Sovereign* bathtub, over the bathtub edge and into the bathtub. See Fig. 2

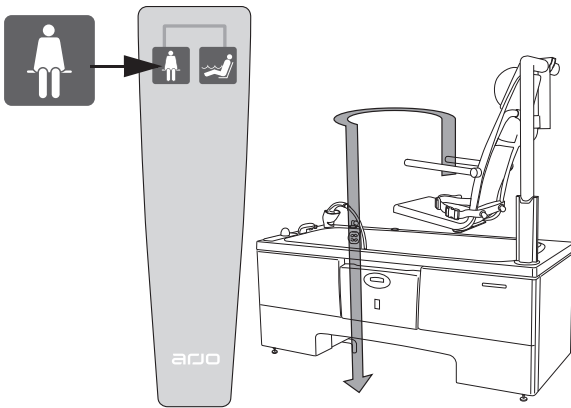
NOTE

The *Malibu/Sovereign* bathtub must be set in its lowest position before the rotation of the chair with the Lift in/out buttons can be used.

NOTE

A slight jerk can follow the start of lift rotation movement into the *Malibu/Sovereign* bathtub. It is totally normal.

Fig. 3



Lift out

Push and hold the Lift out button and the sequence will be performed in the reverse order. See Fig. 3

Make sure the *Malibu/Sovereign* bathtub is in the lowest position with the chair in the bathtub before trying to lift out (rotate) the chair. If not in the lowest position the LED for lowering the bathtub on the control panel will light up.

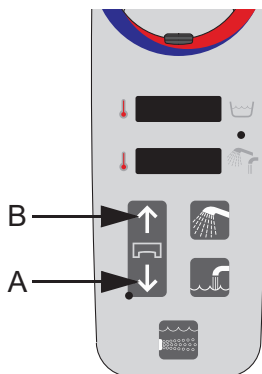
Control Panel

Lower/Raise the *Malibu/Sovereign* bathtub

WARNING

To avoid the device in use from tipping, do not raise or lower other equipment close to it and be aware of stationary object when lowering.

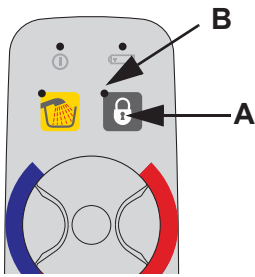
Fig. 4



Push and hold the lower *Malibu/Sovereign* bathtub button (A) to lower the bathtub. See Fig. 4

Push and hold the upper *Malibu/Sovereign* bathtub button (B) to raise the bathtub.

Fig. 1



Patient Lock-out

Push and hold the patient lock out button (A) for 3 s and it will disable all panel and remote buttons, preventing involuntary activation of functions. Patient lock-out is indicated by a yellow LED (B). See Fig. 1

Push and hold for another 3 s to re-enable all the functions.

Battery Back-up (Optional)

A battery will work as a back-up if there is a power failure. It is possible to help a patient out of a *Malibu/Sovereign* bathtub during that time.

It will be possible to lower the *Malibu/Sovereign* bathtub, raise and rotate the lifting arm with the transfer chair out of the bathtub.

If the battery fails to work during a power failure (no LED indication), contact your Arjo technician.

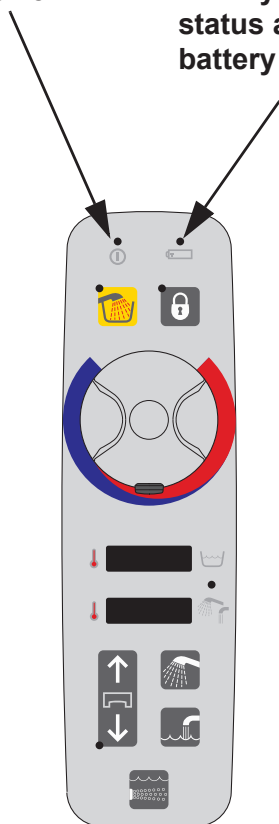
The battery must be checked and replaced through a yearly check by authorized personnel, according to section *Care and Preventive Maintenance on page 44*.

LED Indications See Fig. 2

Fig. 2

LED indicating mains power

LED indicating battery charging status and battery status

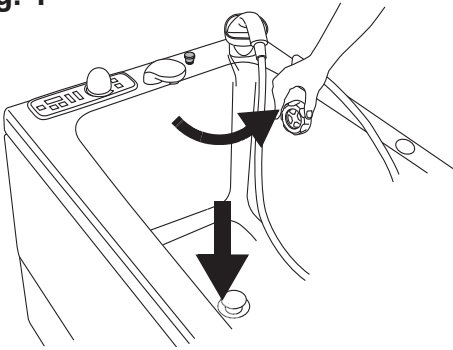


Mains power status	
No LED	Mains off
Green LED	Mains on

Battery Charging Status (mains on - with or without battery)	
Green LED flashing	Battery is charging
Green LED	Battery OK

Battery Status (mains off)	
Green LED	Battery OK
Yellow LED	Battery low.
No LED	Battery is empty and needs replacement or no battery is connected. No operation is possible.

Fig. 1

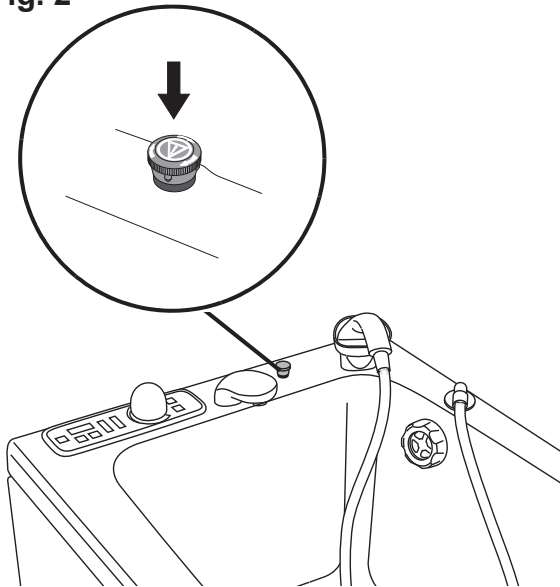


Pop-up Drain Control Knob

Open and close the drainage plug by turning the pop-up drain control knob in the *Malibu/Sovereign* bathtub. See Fig. 1

The pop-up drain control knob is also equipped with a built-in surface overflow outlet.

Fig. 2



Emergency Stop Function

In case of emergency, all function can be stopped by pushing the red emergency button. See Fig. 2

Do not use the emergency stop as an ON / OFF button as it disables the auto flush function.

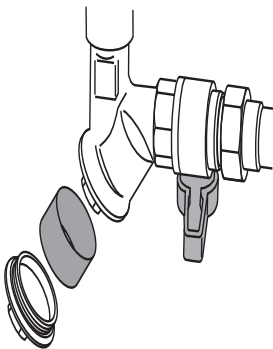
NOTE

To reset the emergency stop function, turn the red emergency button clockwise until it pops up.

NOTE

Do not leave the *Malibu/Sovereign* bathtub with the emergency stop pressed down since it will disable the auto flush function.

Fig. 3



Armrests

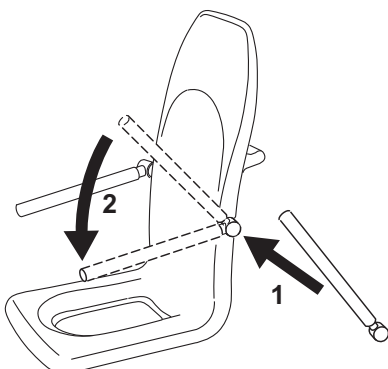
WARNING

To avoid entrapment, make sure to keep the patients hair, arms and feet close to the body and use designated grab supports during any movement.

WARNING

To avoid the patient from falling out of the device, make sure that the armrest are folded down during transfer.

Fig. 4



For easier user access, fold back the armrest. See Fig. 3

The armrests are detachable for easier cleaning access.

To attach the armrest to the transfer chair, first hold the armrest with the handle pointing upwards. Guide the armrest slots onto the transfer chair. Then, fold the armrest forward. See Fig. 4

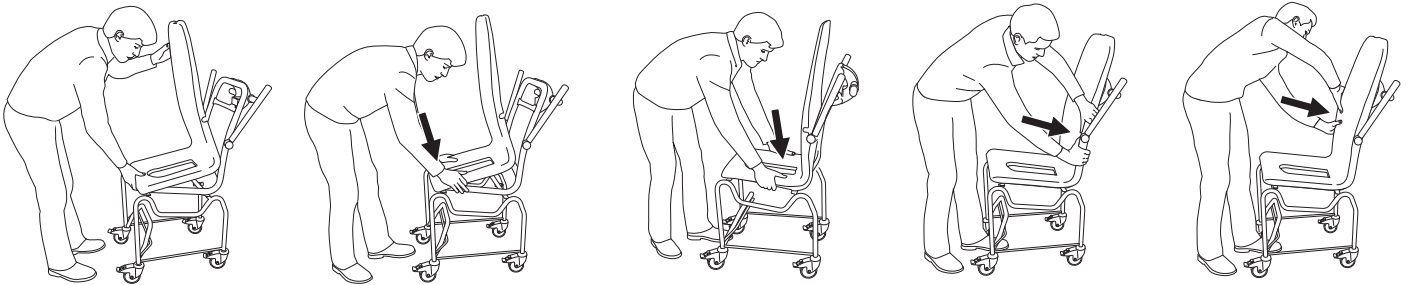
Attach and Remove the Seat

Attach (4 steps)

See Fig. 1

- 1 With both hands start pushing the front end of the seat against the front frame.
- 2 Push down the bent part of the seat.
- 3 Push one side around the armrest and make sure it snaps into place.
- 4 Repeat on the other side.

Fig. 1



Remove (2 steps)

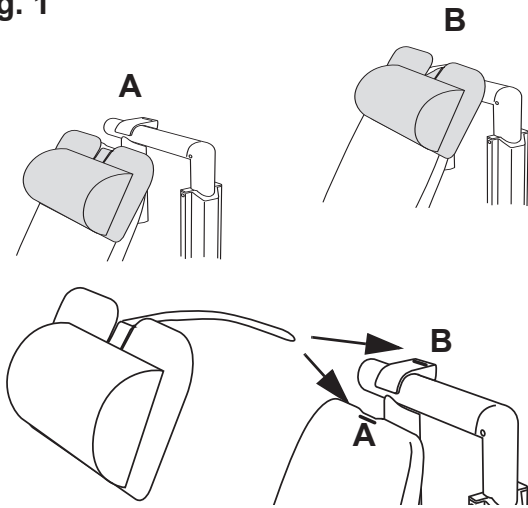
See Fig. 2

- 1 With both hands detach the seat on each side around the armrest.
- 2 Repeat on the other side.
- 3 Pull the bottom of the seat straight up

Fig. 2



Fig. 1



Neck Pillow

A pillow gives comfort and support during the transfer and bathing. See Fig. 1

(A) Preferably used if the patient is short or when the pillow is used and the transfer chair is being detached.

(B) Preferably used with tall patients.

Auto Flush Function

The *Malibu/Sovereign* bathtub is equipped with an auto flush function that prevents stagnating water in the water system.

The auto flush function (which lasts for about 30 s) will start 30 hours after the last use of the *Malibu/Sovereign* bathtub and then every 24 hours if the bathtub is not used.

NOTE

Do not leave the *Malibu/Sovereign* bathtub with the emergency stop pressed down since it will disable the auto flush function.

NOTE

Make sure the shower handle is placed in its holder to prevent water from ending up outside the *Malibu/Sovereign* bathtub.

Auto Fill Function

The *Malibu/Sovereign* bathtub is equipped with an auto fill function, which is preset to a water level height in the bathtub.

- 285 mm for Malibu 1700
- 240 mm for Malibu 1600 and Sovereign.

Activate it by;

- 1 Pushing the bathtub filling button.
 - 2 Once the filling level is reached, it stops by itself.
- Push the bathtub filling button again and filling continues for another 60 s.

Scalding Protection

The *Malibu/Sovereign* bathtub is equipped with an electronic scalding protection that shuts off the water to the shower or filling, if a dangerous temperature level is detected. The LED between the displays lights up on the control panel and the water gets shut off if a temperature above or equal to 45 °C is detected, or earlier if there is a higher incoming water temperature.

Temperature Display

The *Malibu/Sovereign* bathtub has two temperature displays. See Fig. 1

- The top display gives the current temperature of the water in the tub. **(A)**.
- The lower display gives the active filling or shower water temperature **(B)**.

NOTE

Temperature readings occur on sequence why they sometimes seem delayed. Please allow a few seconds to stabilize between adjustments

Fig. 1

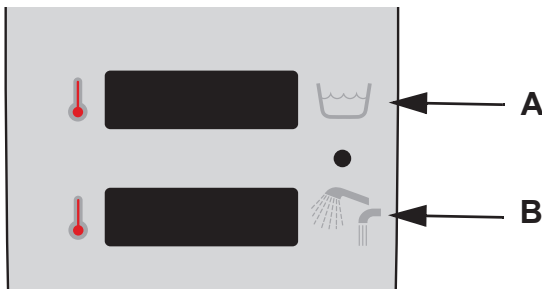
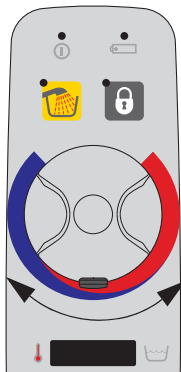


Fig. 2



Shower

The shower water temperature is adjusted by turning the temperature setting knob. See Fig. 2

NOTE

The shower handle should be placed in the holder after every use. See Fig. 3

Fig. 3

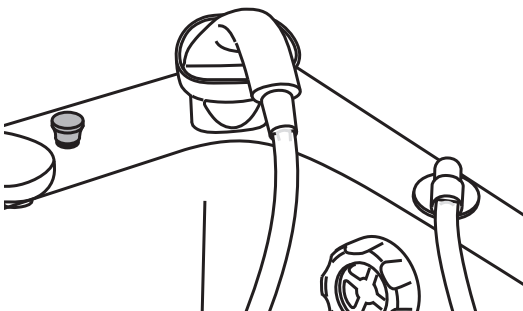
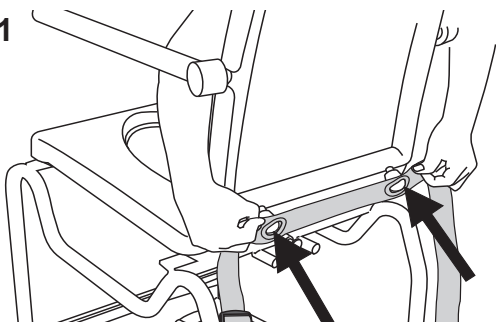


Fig. 1



Safety Belt

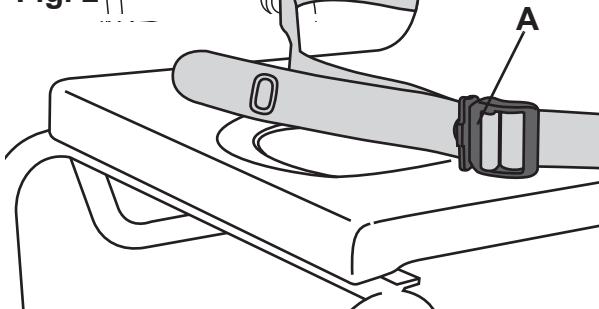
WARNING

To prevent the patient from falling, make sure the safety belts are undamaged. If damaged, do NOT use the safety belts, replace with new ones before use.

WARNING

To avoid falling, make sure that the patient is positioned correctly and that the safety belt is being used, properly fastened and tightened.

Fig. 2



Attach and Buckle (4 steps)

- 1 Attach the safety belt to the chair by pushing the eyelets over the knobs at the back of the chair. See Fig. 1.
- 2 When buckling the safety belt: the arrow shape on the larger buckle clip (A) shall be positioned on the front side of the safety belt. See Fig.2
- 3 Buckle the safety belt by inserting the buckle clips into each other. See Fig. 3
- 4 Unbuckle the safety belt by pressing the spring knobs at the top and bottom of the buckle clips (A) and at the same time pulling the buckle clips apart from each other. See Fig. 4

Fig. 3

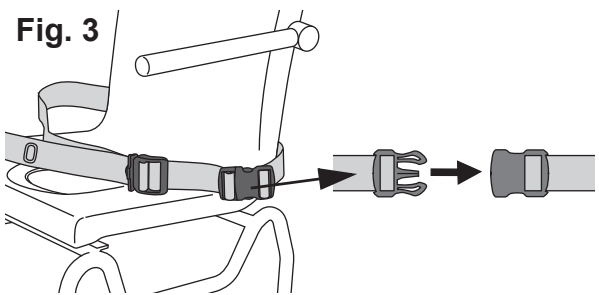


Fig. 4

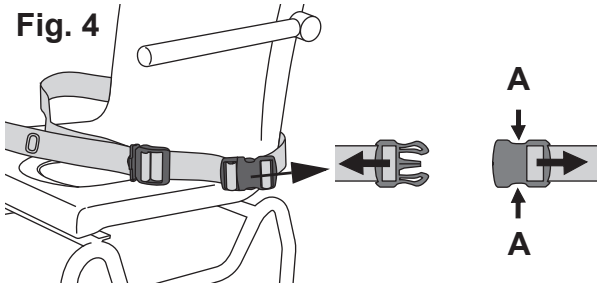
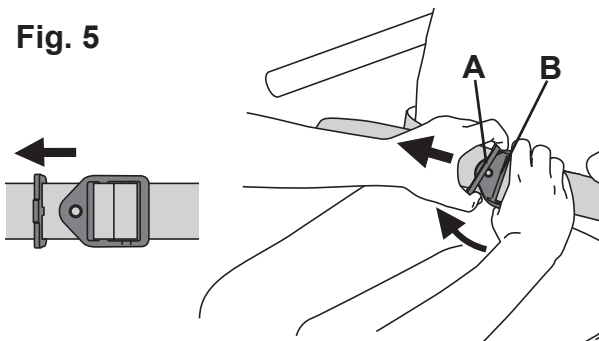


Fig. 5

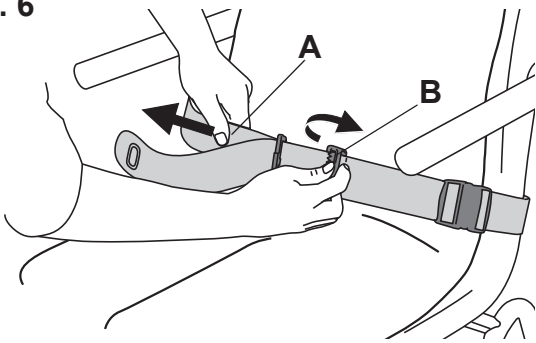


Adjust (5 steps)

- 1 Pull the fastening clips (A) and (B) apart by twisting the smaller fastening clip (A) slightly upwards. See Fig. 5

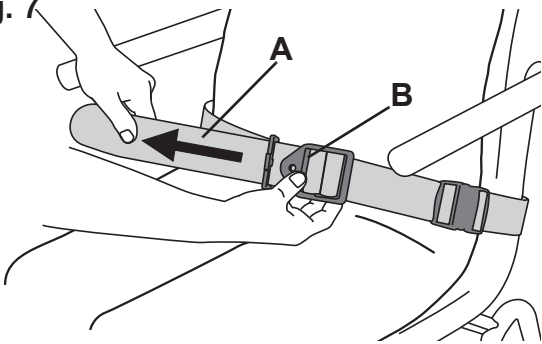
Continue with the steps on the next page.

Fig. 6



2 Loosen the safety belt by pulling the inner strap (**A**) at the side and at the same time lifting the larger buckle clip (**B**). See Fig. 6

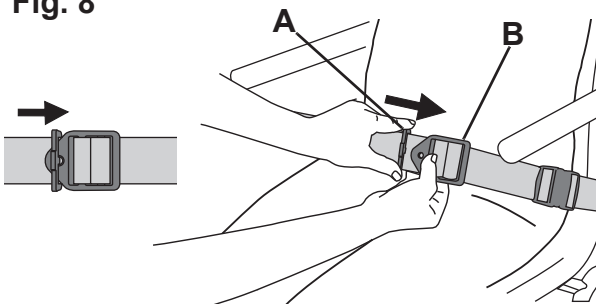
Fig. 7



3 Tighten the safety belt by pulling the outer strap (**A**) at the side and at the same time holding the larger buckle clip (**B**). See Fig. 7

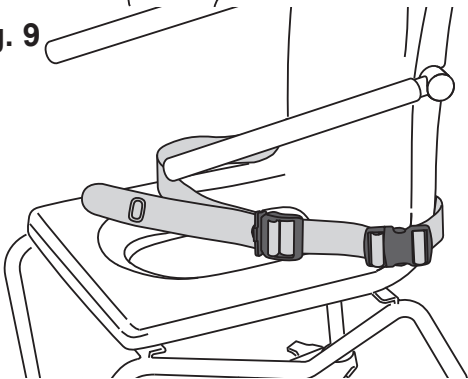
4 Make sure the safety belt is firmly attached to the patient's body.

Fig. 8



5 Lock the buckle clips by inserting the smaller buckle clip (**A**) into the larger buckle clip (**B**). See Fig. 8

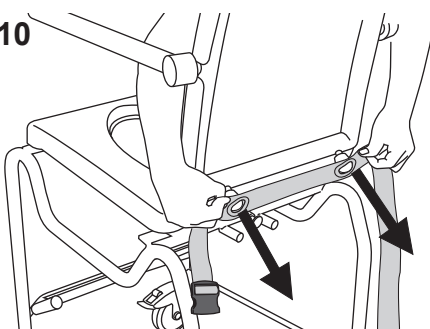
Fig. 9



When not in use

- Make sure that the safety belt is buckled over the seat when the transfer chair is not in use. See Fig. 9.

Fig. 10



Remove

- Remove the safety belt by pulling it away from the knobs at the back of the chair. See Fig. 10.

Disinfection Unit (Optional)

WARNING

To prevent cross-contamination, always follow the disinfection instructions in this *IFU*.

Fig. 1

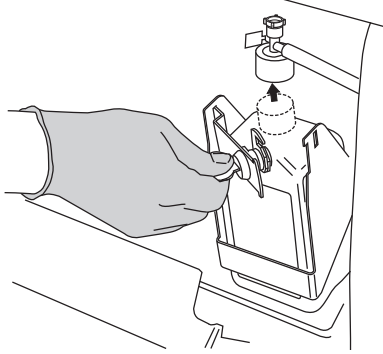
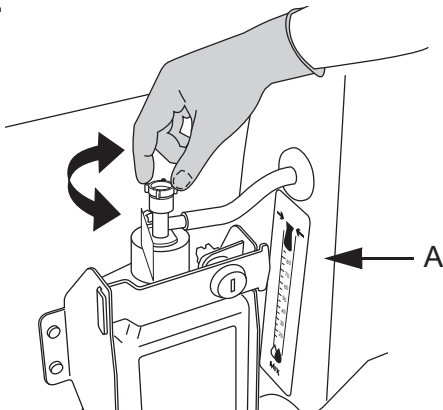


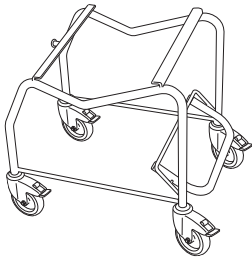
Fig. 2



- The disinfection unit is located behind the cover of the front panel.
- The disinfectant bottle is located behind a key lock inside the disinfection compartment. See Fig. 1
- A flow meter (**A**) indicates the mix ratio that is adjustable through the suction part on the bottle cap. See Fig. 2
- The disinfection spray handle has a trigger to regulate flow control.

The bottle has a low level warning. The green LED on the disinfection button flashes and makes a buzzer sound.

Fig. 3



Transfer Chassis (Optional)

The transfer chassis is used in combination with the detachable transfer chair. See Fig. 3

Apply the brakes on the castors: press the lower part of the castor lock tab with your foot. See Fig. 4

Release the castor brakes: press the upper part of the castor lock tab with your foot. See Fig. 5

Fig. 4

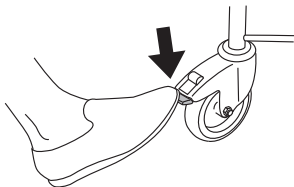


Fig. 5

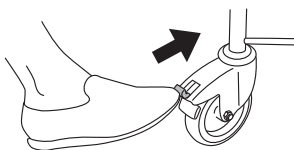
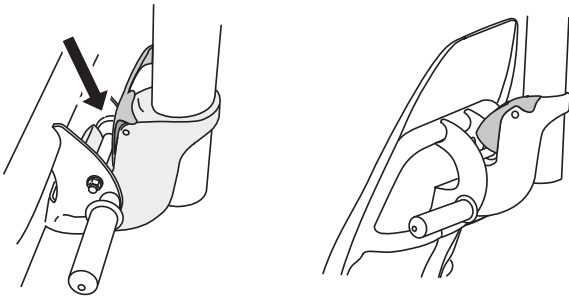


Fig. 1



Transfer Chair

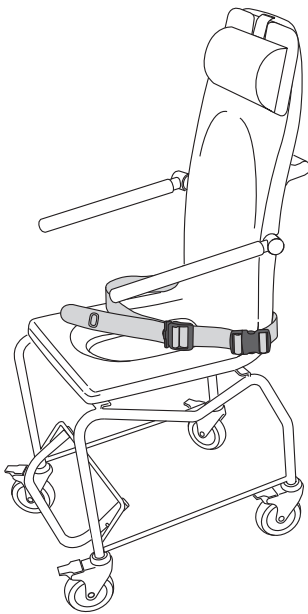
WARNING

To avoid entrapment, make sure to keep the patients hair, arms and feet close to the body and use designated grab supports during any movement.

WARNING

To avoid the patient from falling out of the device, make sure that all catches are in a locked position. See Fig. 1

Fig. 2



Optional: The detachable transfer chair can be used with the transfer chassis. See Fig. 2

To use transfer chair with a toilet

Fig. 3

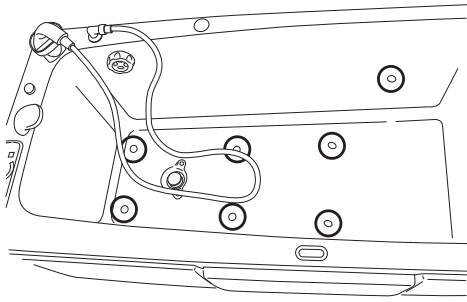


WARNING

To avoid entrapment or pinching of genitals, make sure there is enough clearance during movement over the tub edge, toilet, bedpan or other furniture.

The transfer chair with transfer chassis may also be used over a toilet. See Fig. 3

Fig. 1



Air Spa system outlets on the *Malibu/Sovereign* bathtub

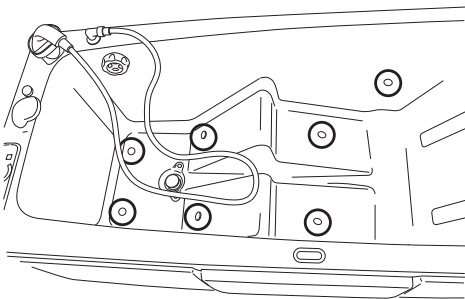
Air Spa System Operation (option)

The *Malibu/Sovereign* bathtub with Air Spa system allows the patient to sit comfortably and enjoy a gentle massage. See Fig. 1 and 2

The massage effect is obtained by injecting air through air jets into the *Malibu/Sovereign* bathtub water.

- The Air Spa system shuts off after 15 minutes.
- The Air Spa system has two different intensity settings.

Fig. 2



Air Spa system outlets on the *Sovereign* bathtub

How to use the Air Spa System (3 steps)

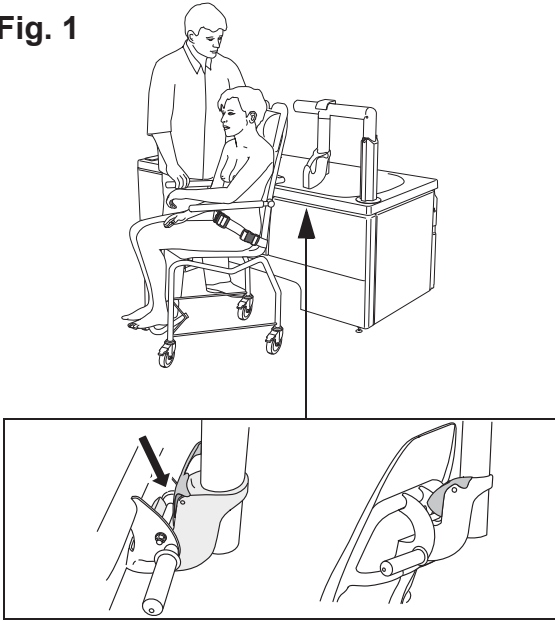
- 1 Push the Air Spa system ON/OFF button on the control panel and the air blower will start at minimum speed.
- 2 The intensity of the air stream will increase by pushing the button again.
- 3 Push the button again to stop.

NOTE

Operating the Air Spa system with soapy water can cause excessive foaming.

Connect the Transfer Chair to Lifting Arm

Fig. 1



This is an option when using the transfer chassis with the transfer chair (5 steps)

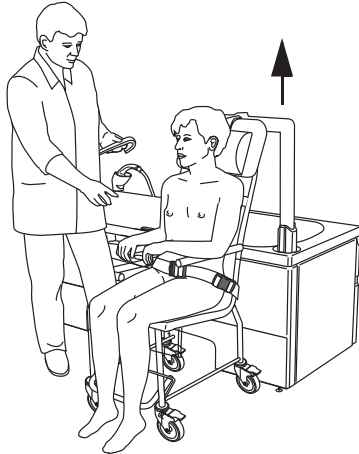
- 1 Set the *Malibu/Sovereign* bathtub in its lowest position by pushing Lower *Malibu/Sovereign* bathtub on the control panel.
- 2 Push the Lift out button on the hand control to have the lifting arm positioned outside the *Malibu/Sovereign* bathtub

3 **WARNING**

To avoid the patient from falling out of the device, make sure that all catches are in a locked position, safety belt is on and the armrests down.

Place the transfer chair to the attachment of the lifting arm and hook up the transfer chair. See Fig. 1

Fig. 2

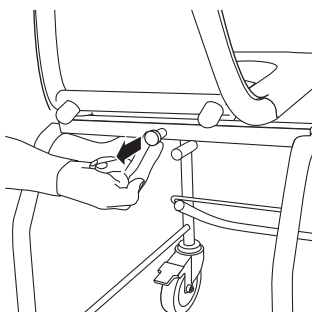


4 **WARNING**

To avoid entrapment, make sure to keep the patients hair, arms and feet close to the body and use designated grab supports during any movement.

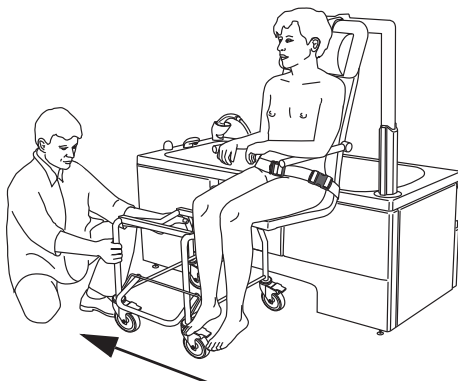
Raise the lifting arm by pushing the Lift in button on the hand control, so that the transfer chair is secured on the lifting arm and the transfer chassis is clear of the floor. See Fig. 2

Fig. 3



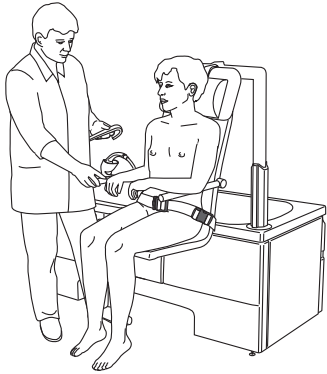
- 5 Pull out the spring loaded catch to release the transfer chassis from the transfer chair and at the same time slide out the transfer chassis sideways from the chair. See Fig. 3 and 4

Fig. 4



Disconnect the Transfer Chair from Lifting Arm

Fig. 1



This is an option when using the transfer chassis with the transfer chair (11 steps)

- 1 Set the *Malibu/Sovereign* bathtub in its lowest position by pushing Lower bathtub button on the control panel.
- 2 Push the Lift out button on the hand control to have the lifting arm position the transfer chair outside the *Malibu/Sovereign* bathtub. See Fig. 1
- 3 Lower the chair but leave enough space underneath for the transfer chassis to be lifted up and to be able to slide it under the chair.
- 4 Make sure the castor brakes on transfer chassis are unlocked.
- 5 Lift the transfer chassis up and slide it into the two rails located underneath the chair. See Fig. 2
- 6 Make sure the spring loaded catch in the back of the chair clicks into place. Listen for the click sound when inserting the transfer chassis. See Fig. 3

Fig. 2

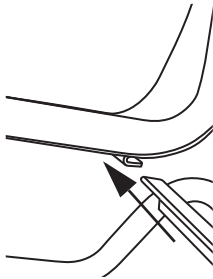
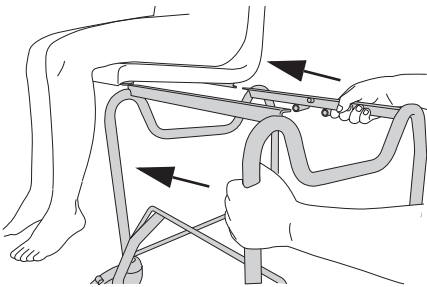
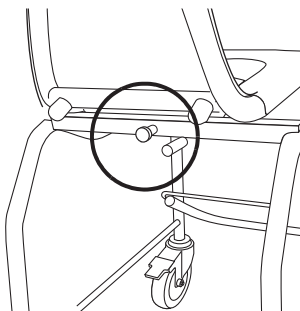
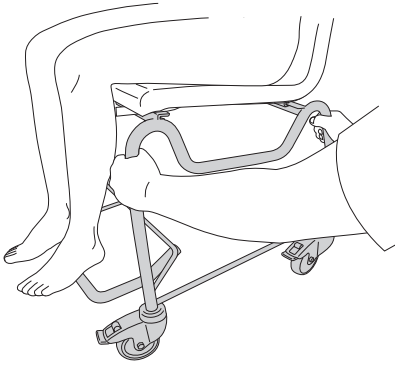


Fig. 3



Continue with the steps on the next page.

Fig. 4



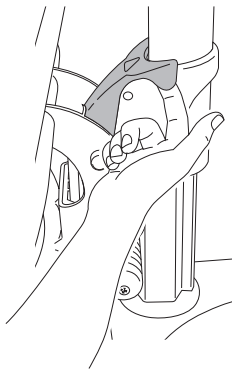
- 7 Wiggle to transfer chassis back and forth to make sure it's securely attached. See Fig. 4
- 8 Continue lowering the chair.

9 **WARNING**

To avoid falling, the transfer chassis castors must be unlocked when detaching the transfer chair from the lifting arm.

Lower the chair by pushing the Lift out button and stop lowering once castors on the transfer chassis touches the floor.

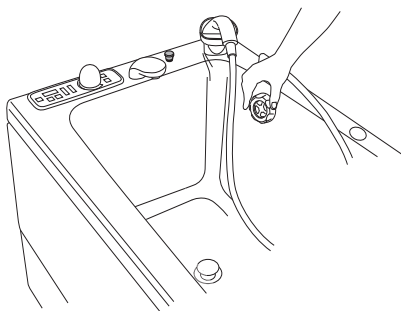
Fig. 5



- 10 Once castors on the transfer chassis touch the floor, lift up the safety catch on the lifting arm and then continuing lowering the chair by pushing the Lift out button. See Fig. 5
- 11 Make sure the chair is completely unhooked from the lifting arm.

Assisted Bathing with Transfer Chair

Fig. 1

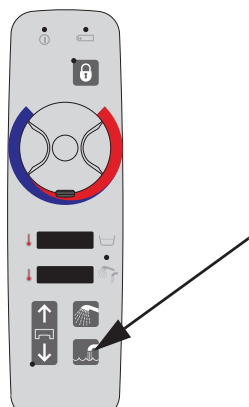


To the *Malibu/Sovereign* bathtub (15 steps)

WARNING

To avoid falling, make sure that the patient is positioned correctly and that the safety belt is being used, properly fastened and tightened, and that the armrests are folded forward.

Fig. 2

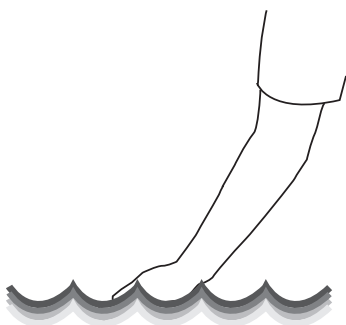


WARNING

To avoid falling during patient transfer, always make sure that the brakes on the equipment receiving the patient are applied.

- 1 Close the drain plug by turning the pop-up drain control knob. See Fig. 1
- 2 Fill the *Malibu/Sovereign* bathtub with water by pushing the fill button. Auto fill function will shut off the water when it reaches the pre-fill level. See Fig. 2

Fig. 3

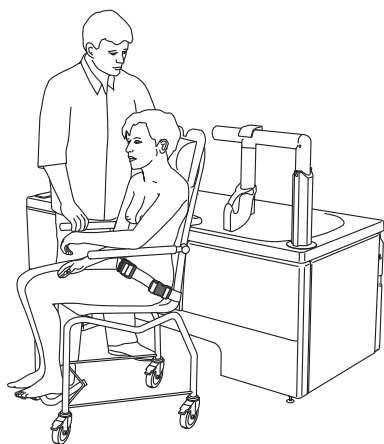


3 WARNING

To prevent scalding, always check the water temperature with your naked hand before directing the water on the patient. Do not use gloves as it may insulate to the extent that the water temperature can be misjudged. Point the flow of the water away from the patient.

Adjust the temperature, if needed. Check the *Malibu/Sovereign* bathtub water temperature by hand without gloves before letting the patient into the bathtub. See Fig. 3

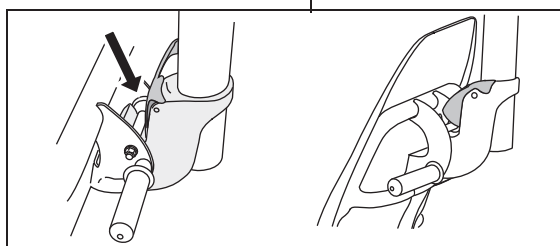
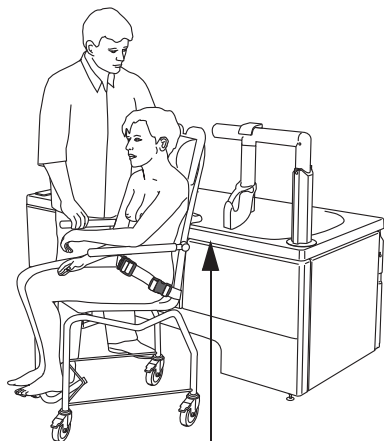
Fig. 4



- 4 Transfer /Position the seated patient on the transfer chair with the transfer chassis next to the lifting arm. See Fig. 4
 - If a patient is being positioned on an attached or unattached transfer chair, using a standing and raising aid or wheelchair, then see its corresponding IFU.
 - If a patient is being positioned on an already attached transfer chair, then continue on step 11.

Continue with the steps on the next page.

Fig. 5



5 **WARNING**
To avoid entrapment of the patients or caregivers legs or feet, make sure that they are kept clear of all obstacles.

6 **WARNING**
To avoid the device in use from tipping, do not raise or lower other equipment close to it and be aware of stationary object when lowering.

Make sure the *Malibu/Sovereign* bathtub is in its lowest position by pushing Lower bathtub button on the control panel (otherwise the power rotation of the lift will not work).

7 Push the Lift out button on the hand control to have the lifting arm positioned outside the *Malibu/Sovereign* bathtub.

8 **WARNING**
To avoid entrapment, make sure to keep the patients hair, arms and feet close to the body and use designated grab supports during any movement.

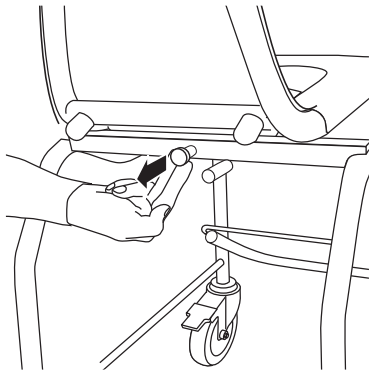
Attach the transfer chair to the lifting arm. See Fig. 5 For details see section *Connect the Transfer Chair to Lifting Arm* on page 22.

9 **WARNING**
To avoid entrapment, make sure to keep the patients hair, arms and feet close to the body and use designated grab supports during any movement.

Raise the lifting arm by pushing down the Lift in button on the hand control, so that the transfer chair is secured on the lifting arm and the transfer chassis is clear of the floor.

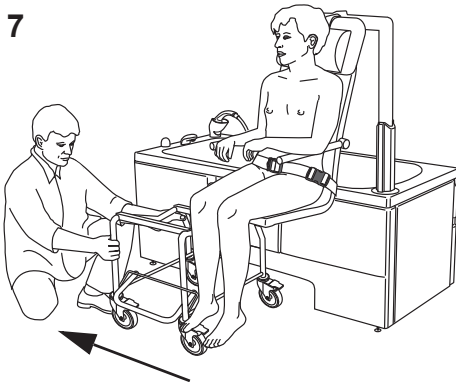
Continue with the steps on the next page.

Fig. 6



- 10 Pull out the spring loaded catch to release the transfer chassis from the transfer chair and at the same time slide out the transfer chassis sideways from the chair. See Fig. 6 and 7

Fig. 7

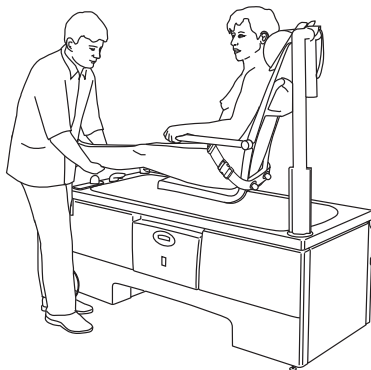


- 11 **WARNING**
To avoid entrapment or pinching of genitals, make sure there is enough clearance during movement over the tub edge, toilet, bedpan or other furniture.

- 12 **WARNING**
To avoid entrapment, make sure to keep the patients hair, arms and feet close to the body and use designated grab supports during any movement.

Push the Lift in button for the chair to rotate into the *Malibu/Sovereign* bathtub. Help the patient to move his or her legs over the edge of the *Malibu/Sovereign* bathtub. See Fig. 8

Fig. 8

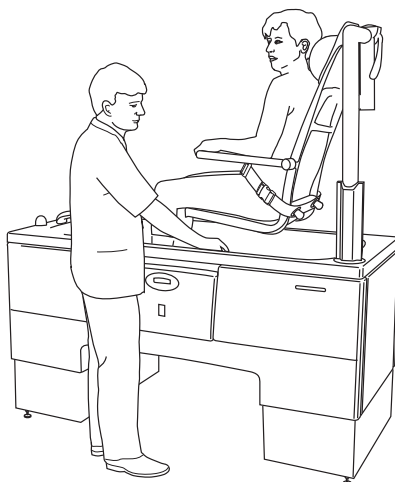


- NOTE**
A slight jerk can follow the start of lift rotation movement into the *Malibu/Sovereign* bathtub. It is fully normal.

- 13 Raise the *Malibu/Sovereign* bathtub to a convenient working height for the caregiver by pushing the Raising of tub button.

- 14 When the *Malibu/Sovereign* bathtub is in its highest position, it's possible to raise the transfer chair higher by pushing the Lift out button. The chair will only be raised since the rotation of the chair out of the *Malibu/Sovereign* bathtub will only work when the bathtub is at lowest position. This makes it easier to clean parts of the patient's body, which would otherwise be out of reach. See Fig. 9

Fig. 9

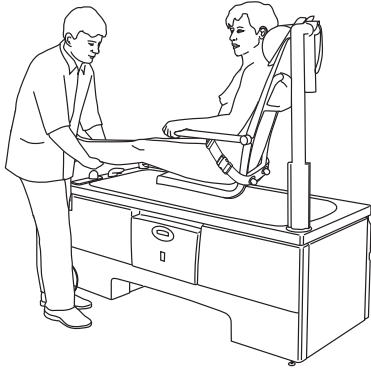


- 15 Push the Lift in button, to lower the transfer chair back again.

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From the *Malibu/Sovereign* bathtub (14 steps)

Fig.1



WARNING

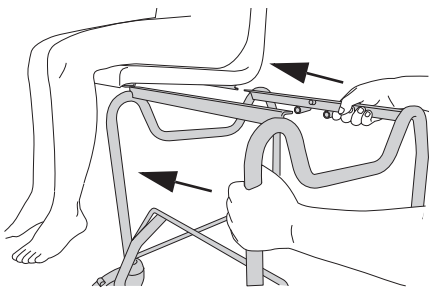
To avoid falling, make sure that the patient is positioned correctly and that the safety belt is being used, properly fastened and tightened, and that the armrests are folded forward.

WARNING

To avoid falling during patient transfer, always make sure that the brakes on the equipment receiving the patient are applied.

- 1 After bathing, open the drain and lower the *Malibu/Sovereign* bathtub to its lowest position by pushing the Lower the bathtub button.
- 2 Make sure that the safety belt is still close to the patient's body and armrest down. Tighten the safety belt, if needed.

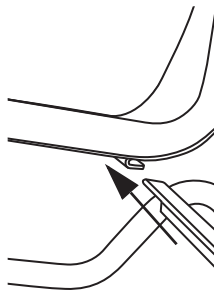
Fig. 2



3 WARNING

To avoid entrapment of the patients or caregivers legs or feet, make sure that they are kept clear of all obstacles.

Lift out the patient of the *Malibu/Sovereign* bathtub by pushing the Lift out button. Help the patient to move his or her legs over the edge of the *Malibu/Sovereign* bathtub. See Fig. 1



- 4 Lower the chair but leave enough space for the transfer chassis to be lifted up and slide under the transfer chair.
- 5 Make sure the transfer chassis are unlocked.
- 6 Lift the transfer chassis up and slide it into the two rails located underneath the transfer chair. See Fig. 2

Continue with the steps on the next page.

Fig. 3

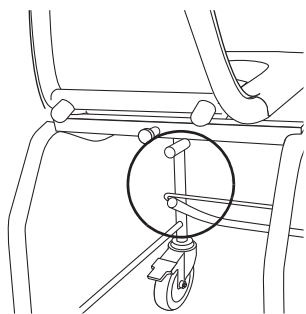


Fig. 4

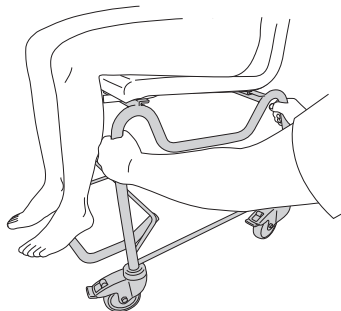


Fig. 5

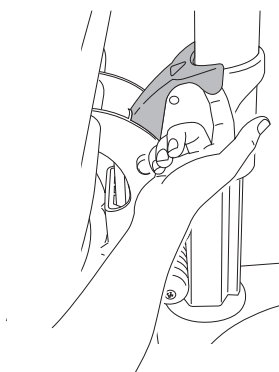


Fig. 6

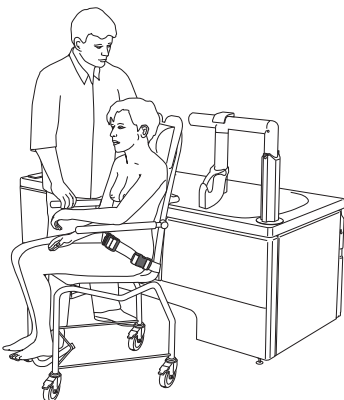
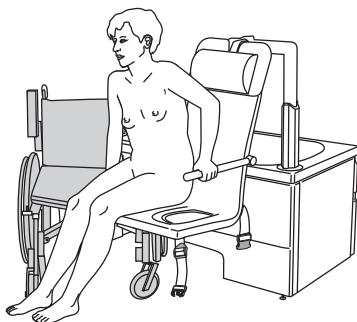


Fig. 7



7 Make sure the spring loaded catch in the back of the chair clicks into place. Listen for the click sound when inserting the transfer chassis. See Fig. 3

8 Wiggle to transfer chassis back and forth to make sure it's securely attached. See Fig. 4

9 Continue lowering the transfer chair.

10 **WARNING**
To avoid falling, the transfer chassis castors must be unlocked when detaching the transfer chair from the lifting arm.

Lower the chair by pushing the Lift out button and stop lowering once castors on the transfer chassis touches the floor.

11 Once castors on the transfer chassis touches the floor, lift up the safety catch on the lifting arm open and then continuing lowering by pushing the Lift out button See Fig. 5

12 Make sure the chair is completely unhooked from the lifting arm before transport.

13 Transport the patient on the transfer chair connected to transfer chassis. See Fig. 6

- If a patient is being positioned from the transfer chair, to a standing and raising aid or wheelchair, see its corresponding IFU. See Fig. 7

14 Make sure to disinfect and clean the *Malibu/Sovereign* bathtub after every use. See section *Cleaning and Disinfection Instructions* on page 36.

Home Care Use

For Distributors and Renters

When transporting the *Malibu/Sovereign* bathtub to the customer:

- Make sure the *Malibu/Sovereign* bathtub is properly secured during transport.

When delivering the *Malibu/Sovereign* bathtub make sure that:

- The requirements and instructions prior to installation are followed according to the *Site Preparation*.
- The *Malibu/Sovereign* bathtub is installed by qualified personnel according to the *Assembly and Installation Instruction*.

WARNING

To prevent scalding, make sure that the thermostatic mixer has been calibrated. Confirm that responsible organization has established calibration routines.

Make sure:

- The thermostatic mixer has been calibrated by an Arjo service technician according to the *Assembly and Installation Instructions*.
- To read this *IFU* together with the receiver (including relatives and caregivers).
- To understand parts designation, functions and intended usage described in the *IFU* with help of the real product.
- To read all the warnings to the receiver.
- The cleaning and disinfection instructions are understood.
- To perform a functionality test according to section *Care and Preventive Maintenance on page 44*.
- The environment fulfils all the requirements described in this *IFU*.

Use the Malibu/Sovereign bathtub

Before using the *Malibu/Sovereign* bathtub in home environment make sure that:

WARNING

To avoid choking hazard do not leave children, 3 years or younger, unattended as the equipment contains small parts.

- All caregivers, including relatives, have read and understood the instructions in this *IFU*.
- All carpets and rugs in the room are removed.
- All thresholds in the room are removed.
- All stairs and edges have a fence and safety gate to prevent the transfer chair when using the with transfer chassis from rolling down.
- There is room is big enough to use the *Malibu/Sovereign* bathtub system features.

During Storage of the *Malibu/Sovereign* bathtub make sure that:

WARNING

To avoid strangulation, make sure to never leave children unattended near the equipment.

- No children can access the *Malibu/Sovereign* bathtub, the chair or the accessories.
- No pets can come in contact with the *Malibu/Sovereign* bathtub, the chair or the accessories.
- The storage environment fulfils the requirements specified in section *Transport and Storage on page 53*.

Space Requirements in mm. around the *Malibu/Sovereign* Bathtub

The *Malibu/Sovereign* bathtub must always be installed according to recommended space requirements, this to provide optimal working conditions for personnel and patient.

NOTE

Space for furniture and other personal items are not included in these measurements.

Wall Position (measurements depending on *Malibu/Sovereign* bathtub model)

Contact Arjo to order side / back / corner cover if:

* Short side is equal or larger measurements than 60 mm

** Long side is equal or larger measurements than 80 mm

Fig. 1

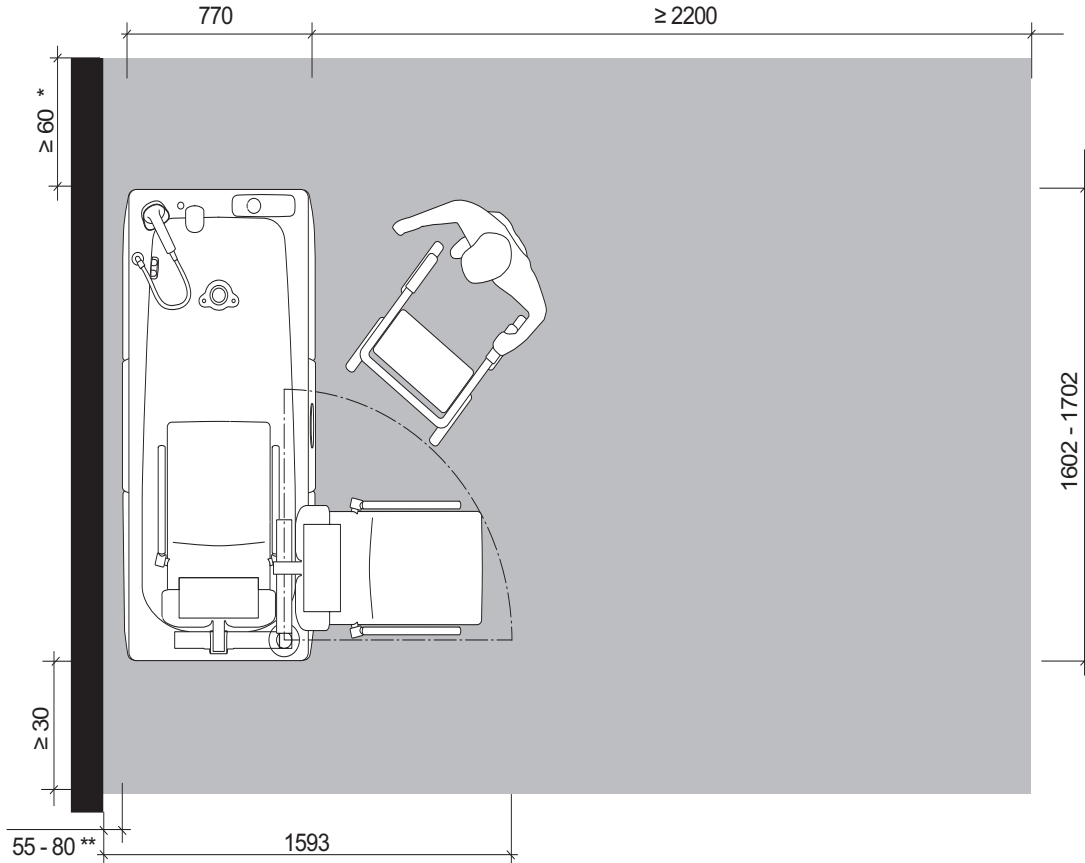
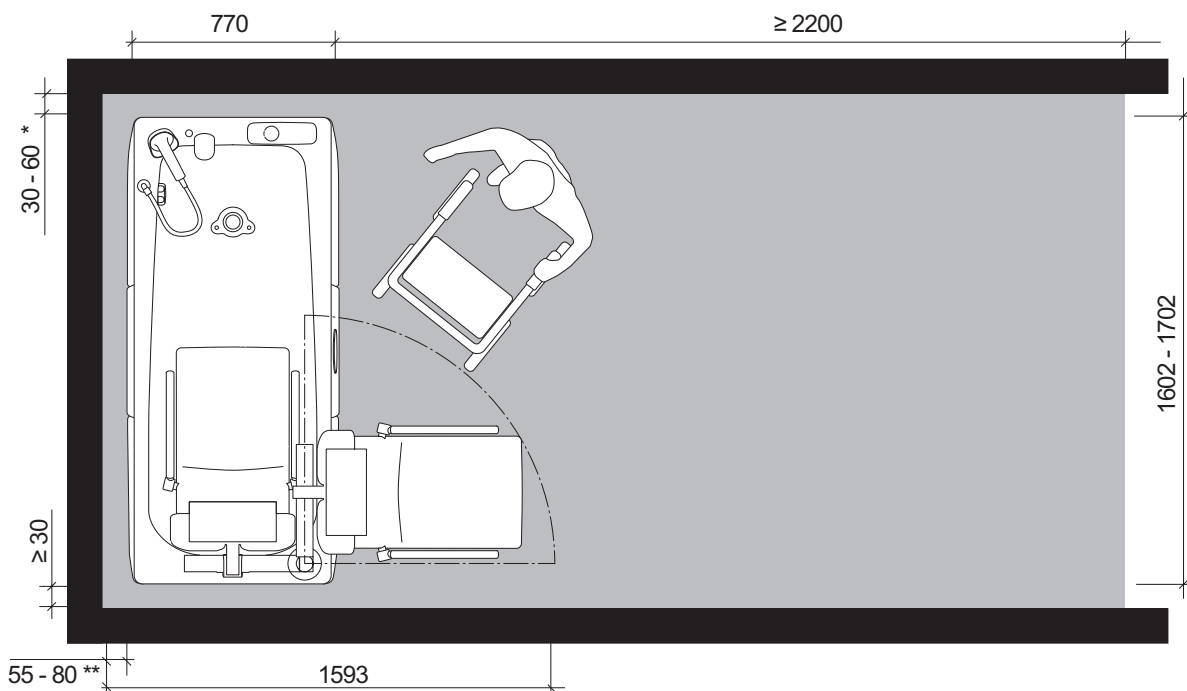


Fig. 2



Wall Position (measurements depending on *Malibu/Sovereign* bathtub model)

Contact Arjo to order side / back / corner cover if:

* Short side is equal or larger measurements than 60 mm

** Long side is equal or larger measurements than 80 mm

Fig. 3

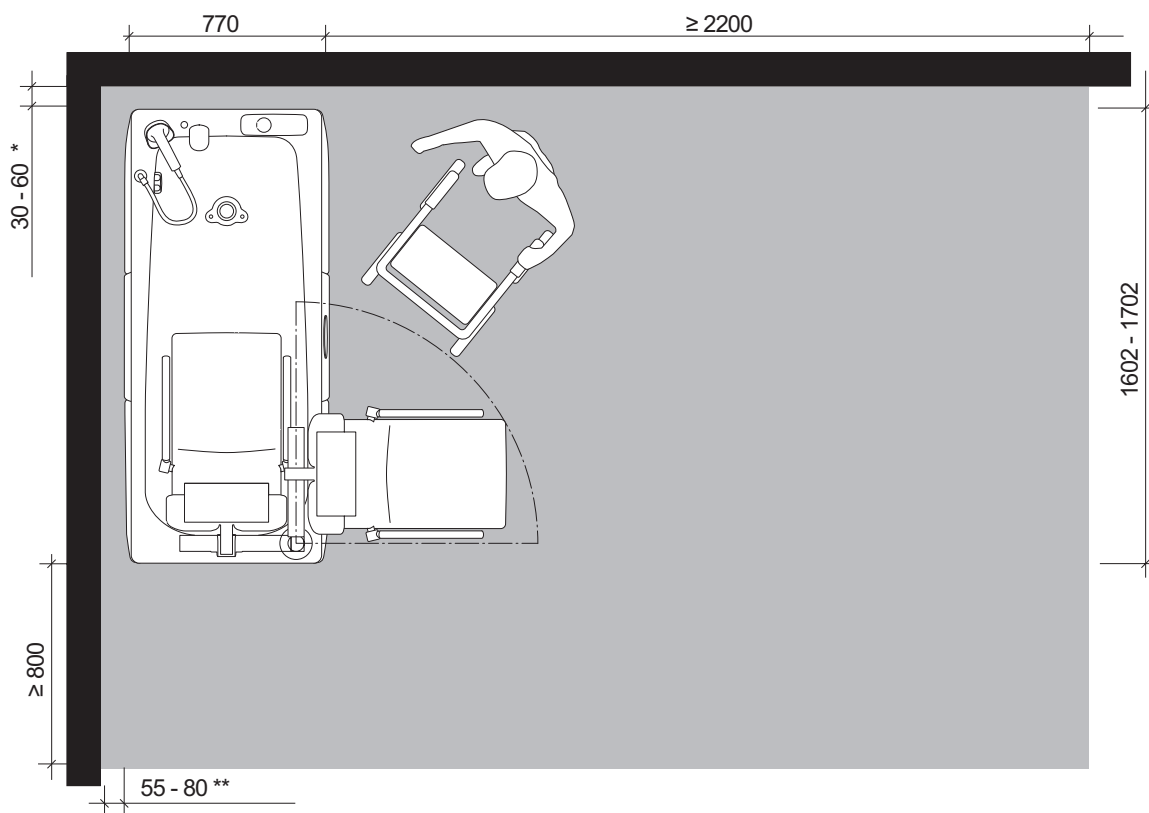
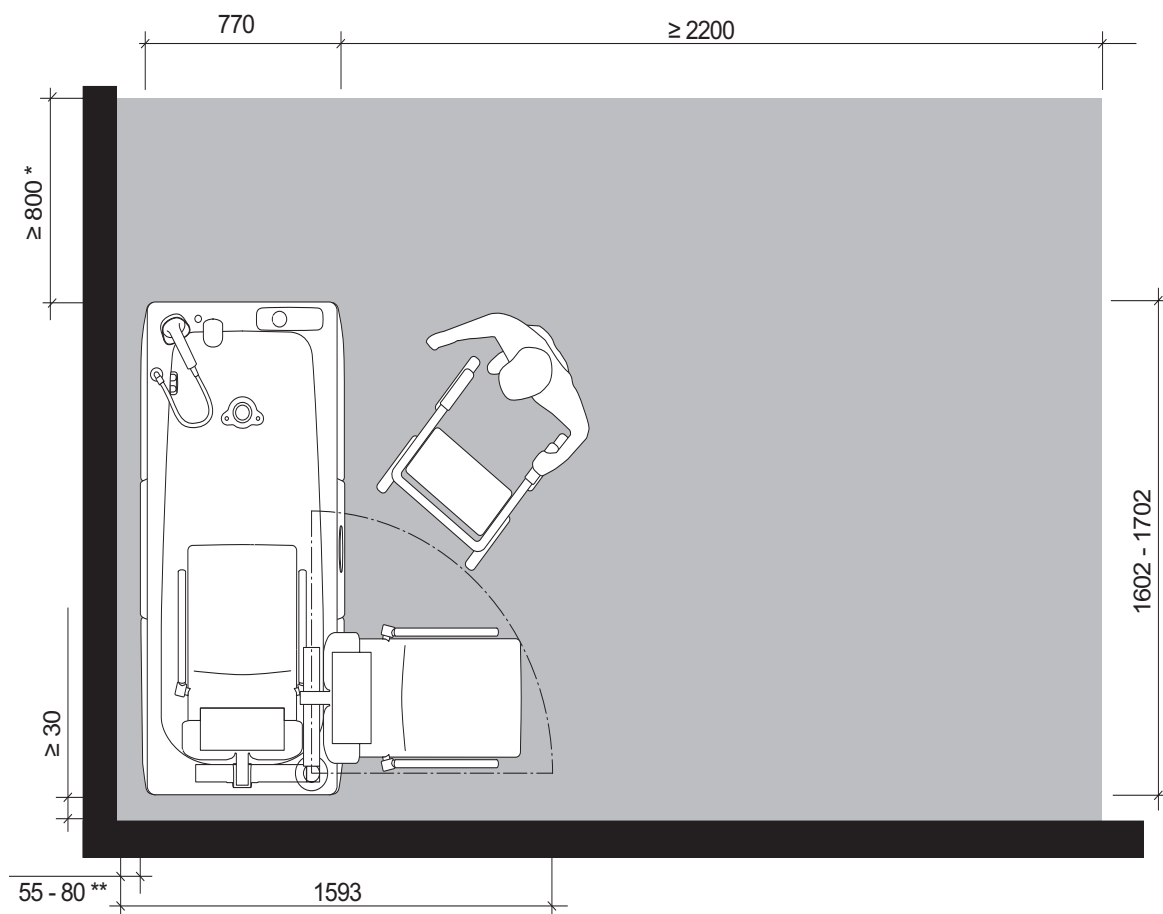


Fig. 4

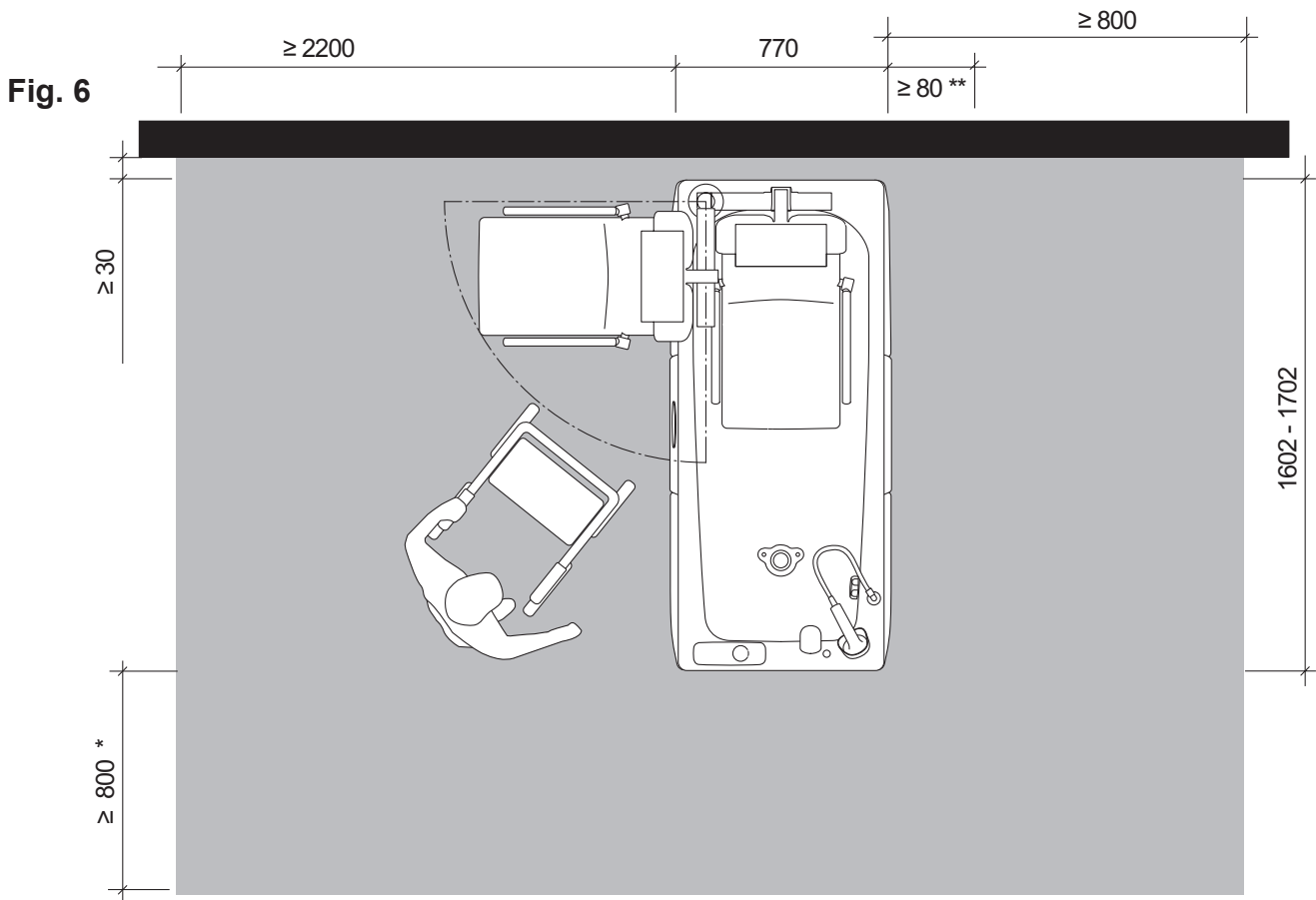
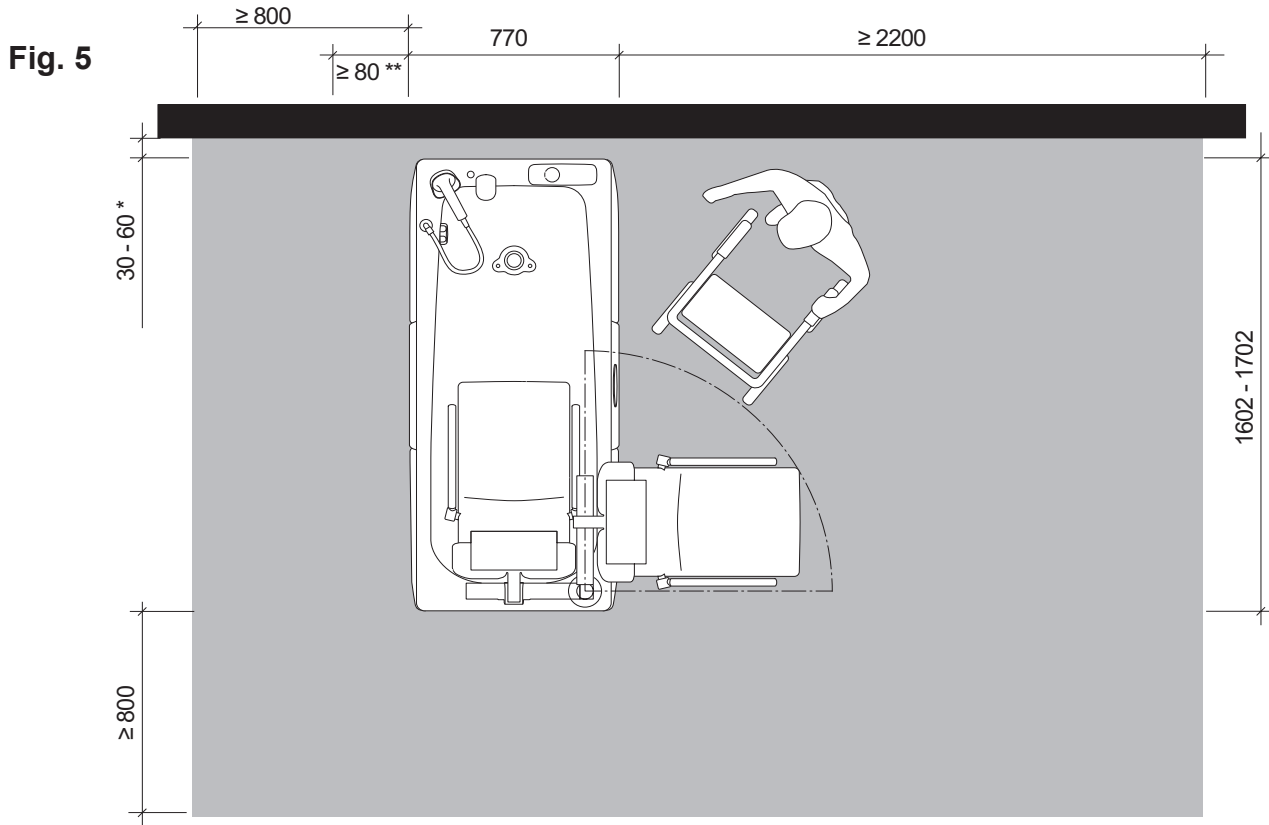


Island Position (measurements depending on *Malibu/Sovereign* bathtub model)

Contact Arjo to order side / back / corner cover if:

* Short side is equal or larger measurements than 60 mm

** Long side is equal or larger measurements than 80 mm



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Cleaning and Disinfection Instructions

Thorough cleaning and disinfection routines are necessary to stop the bacteria growth on the equipment.

This is particularly vital in cases where the *Malibu/Sovereign* bathtub is in a shared facility.

Cleaning and disinfection as outlined below reduces the risk of cross-contamination between patients.

Only use Arjo Branded Disinfectant Cleansers.

If you have any questions regarding disinfecting the *Malibu/Sovereign* bathtub, or wish to order disinfectant, contact Arjo Customer Service. See section *Parts and Accessories* on page 60.

Make sure to have the Safety Data Sheets (SDS) available for the disinfectant being used.

See disinfectant IFU for instruction on contact time and mix ratio (dilution).

WARNING



To avoid eye and skin damage, always use protective glasses and gloves. If contact occurs rinse with plenty of water. If eyes or skin becomes irritated, contact a physician. Always read the material safety data sheet of the disinfectant.

WARNING

To avoid eye or skin irritation, never disinfect in the presence of a patient.

WARNING

To prevent cross-contamination, always follow the disinfection instructions in this *IFU*.

WARNING

To prevent cross-contamination, the caregiver must always be present during the whole disinfection procedure to make sure it is performed correctly.

Accessories for Disinfecting the Malibu/Sovereign bathtub (not included in Malibu/Sovereign bathtub delivery)

- Protective glasses
- Protective gloves
- Spray bottle with disinfectant or disinfection spray handle with disinfectant. (Not needed for a *Malibu/Sovereign* bathtub with integrated disinfection)
- Spray bottle with water / shower handle with water
- Cloths - Wet and Dry
- Disposable towels
- Soft bristled brush
- Long handled soft bristled brush

Allowed Disinfectants

- Arjo Clean

Microbiological Formation Prevention

In order to enhance the on-site curative corrective actions (chlorine or thermal shock), which do not guarantee a reduction of the contamination long term, make sure to follow the instructions below.

Installation precautions

In order to limit the growth of bacterial flora, it is necessary to take action at four levels:

- Avoid stagnating water and make sure proper water circulation;
- Take precautions against the formation of scale and corrosion based on the water quality;
- Maintain a high water temperature all the way from the hot water dispenser to the different distribution pipes;
- Mix hot and cold water as close as possible to the point of use.

Use

- Make sure that the water circulates in the *Malibu/Sovereign* bath and the shower on a daily basis even if the bathtub is not used; and particular to make sure to remove any water that may be left behind in the hose.
- Let the water flow approximately 5 minutes before the first *Malibu/Sovereign* bath of the day.
- Clean and disinfect the *Malibu/Sovereign* bathtub according to the *IFU* before the first bath of the day and after the bath of each patient.

Do not forget to contact Arjo for the annual Preventive Maintenance visit.

Fig. 1

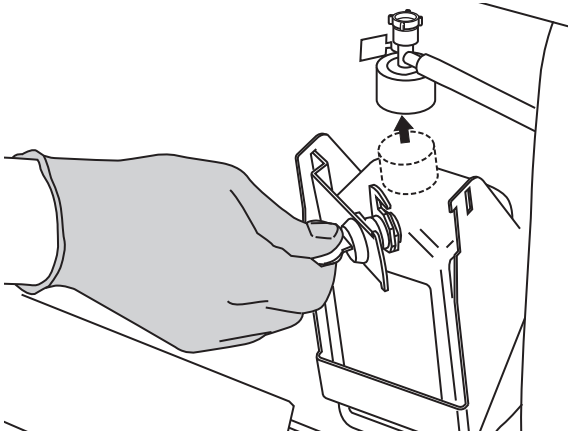


Fig. 2

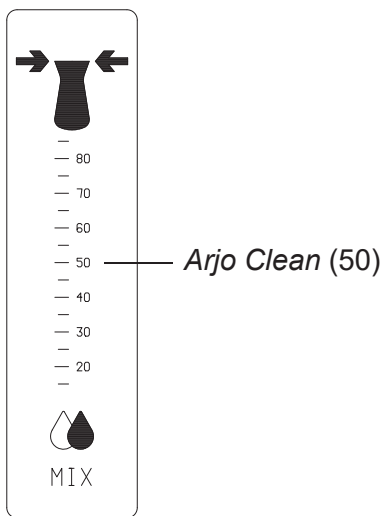
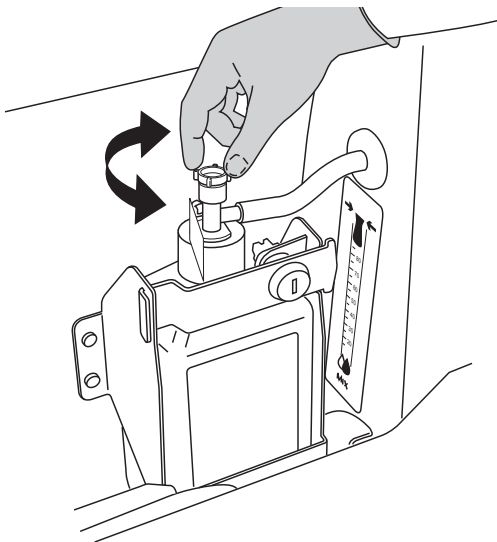


Fig. 3



Replace Disinfectant Bottle

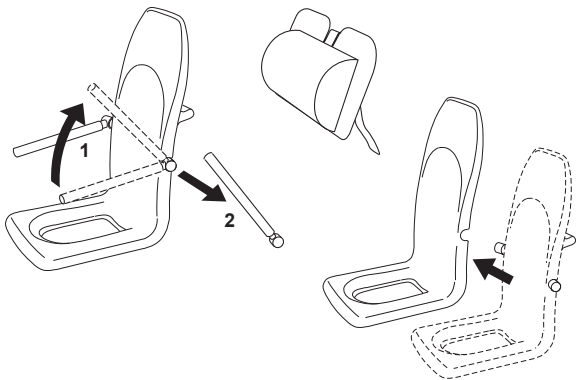
WARNING

To prevent cross-contamination, always follow the disinfection instructions in this *IFU*.

(13 steps)

- 1 Put on protective gloves and glasses.
- 2 Open the disinfection door and unlock the disinfectant bottle See Fig. 1
- 3 Disconnect the disinfection suction part from the disinfection bottle. See Fig. 1
- 4 Remove and recycle the old bottle.
- 5 Place the new disinfectant bottle in the compartment and remove the bottle cap.
- 6 Attach the bottle suction cap on the new disinfectant bottle.
- 7 Lock the disinfectant bottle inside the disinfection compartment. See Fig.1
- 8 Set the temperature control as low as possible.
- 9 Grab the disinfection spray handle.
- 10 Spray disinfection fluid while keeping an eye on the flow meter.
- 11 Check the liquid value so it is in accordance with the recommended mix ratio. See Fig. 2
If necessary, adjust the bottle suction cap to get the right mix ratio. See Fig. 3
- 12 Put the disinfection spray handle back into the compartment.
- 13 Close the disinfection door after use.

Fig. 1

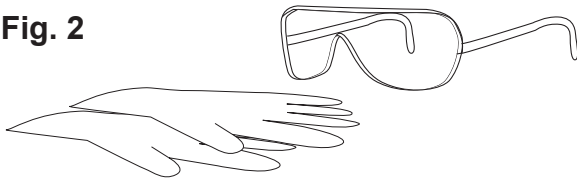


Clean and Disinfect with Spray Bottle (30 steps)

Remove visual residue (step 1-7)

- 1 Raise *Malibu/Sovereign* bathtub to convenient working position.
- 2 Make sure all functions are turned off.
- 3 Open the drainage plug to drain any remaining water.
- 4 Detach and place the loose parts such as armrests, seat of the transfer chair, neck pillow and other accessories such as safety belts on the bottom of the *Malibu/Sovereign* bathtub. See Fig. 1
- 5 Make sure the transfer chair is in the *Malibu/Sovereign* bathtub and not outside.
- 6 Shower and rinse the *Malibu/Sovereign* bathtub, the lifting arm and the transfer chair with water to remove visible residue. Start from the top and move downwards.
- 7 Shower and rinse the loose parts and the accessories in the bottom of the *Malibu/Sovereign* bathtub with water to remove visible residue. Turn accessories and loose parts and rinse again.

Fig. 2



Clean (step 8-18)

- 8 Put on protective gloves and protective glasses. See Fig. 2
- 9 Spray disinfectant in drain. Use a long handled brush to scrub drain.
- 10 Close the drainage plug.
- 11 Spray disinfectant on all internal *Malibu/Sovereign* bathtub surfaces, the lifting arm and the transfer chair and the loose parts and other accessories at the bottom of the bathtub. Turn the loose parts and the accessories and spray on other side. Pay attention to parts and knobs and sensors attached to the *Malibu/Sovereign* bathtub surface such as drain control knob/surface overflow outlet. See Fig. 3
- 12 Spray into the surface overflow outlet. See Fig. 3
- 13 Scrub the surfaces of *Malibu/Sovereign* bathtub, the lifting arm and the transfer chair, loose parts and accessories with a soft bristle brush or cloth (to remove any deposits e.g. skin flakes). Scrub thoroughly, especially on handles. See Fig. 4

Fig. 3

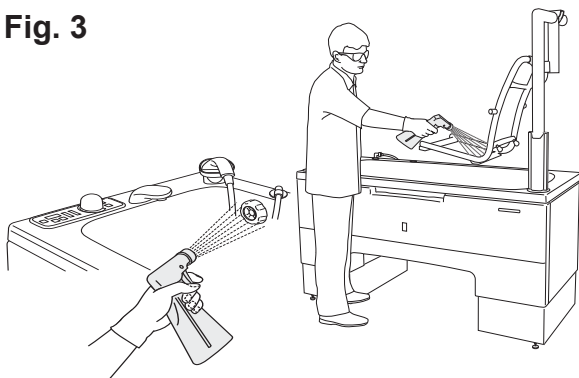
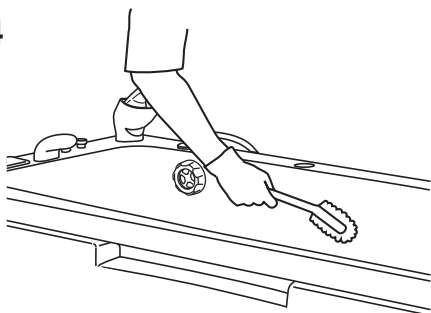


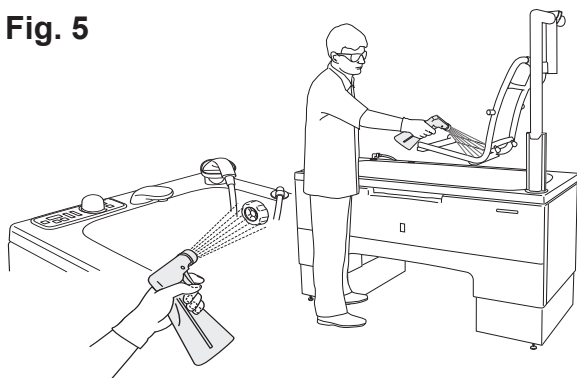
Fig. 4



Continue with the steps on the next page

- 14 Soak a cloth in disinfectant.
- 15 Wipe all other contact areas such as the outside of the *Malibu/Sovereign* bathtub, the hand control and the transfer chassis (if any) with the cloth.
- 16 Open the drainage plug.
- 17 Rinse all parts clean with plenty of water having a temperature of approximately 25 °C to rinse off the disinfectant fluid.
- 18 Wet a new cloth with water and remove all traces of disinfectant on contact areas. The cloth should occasionally be rinsed in running water when removing disinfectant.

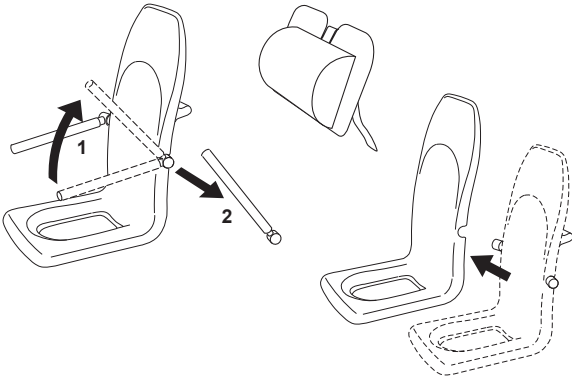
Fig. 5



Disinfect (step 19-30)

- 19 Spray disinfectant in drain.
- 20 Close the drainage plug.
- 21 Spray disinfectant on all internal *Malibu/Sovereign* bathtub surfaces, lifting arm, transfer chair and the loose parts and accessories at the bottom of the bathtub. Turn accessories and spray on other side. Pay attention to parts and knobs attached to the *Malibu/Sovereign* bathtub surface such as drain control knob/surface overflow outlet. See Fig. 5
- 22 Soak a cloth in disinfectant.
- 23 Wipe all other contact areas such as the outside of the *Malibu/Sovereign* bathtub (particularly behind the head), metal sensory knobs, hand control and the transfer chassis (if any) with the cloth.
- 24 Allow an appropriate contact time of the disinfectant according to the disinfectant IFU.
- 25 Open the drainage plug.
- 26 Rinse all parts clean with plenty of water having a temperature of approximately 25 °C to rinse off the disinfectant fluid.
- 27 Wet a clean cloth with water and remove all traces of disinfectant on contact areas outside the bathtub, such as handle and knobs. Rinse the cloth occasionally in running water when removing disinfectant.
- 28 Place the shower handle in the holder.
- 29 Leave to air dry.
- 30 Attach armrests and seat. Make sure the seat is attached. Attach the neck pillow, safety belt and rest of the accessories.

Fig. 1



Clean and Disinfect with Disinfection Unit (40 steps)

Remove visual residue (step 1-7)

- 1 Raise *Malibu/Sovereign* bathtub to convenient working position.
- 2 Make sure all functions are turned off.
- 3 Open drainage plug to empty any remaining water.
- 4 Detach and place the loose parts such as armrests, seat of the transfer chair, the neck pillow and other accessories such as safety belts on the bottom of the *Malibu/Sovereign* bathtub. See Fig. 1
- 5 Make sure the transfer chair is in the *Malibu/Sovereign* bathtub and not outside.
- 6 Shower and rinse the *Malibu/Sovereign* bathtub, the lifting arm and the transfer chair with water to remove visible residue. Start from the top and move downwards.
- 7 Shower and rinse the loose parts and the accessories in the bottom of the bathtub with water to remove visible residue. Turn accessories and loose parts and rinse again.

Clean (step 8-25)

- 8 Put on protective gloves and glasses. See Fig. 2
- 9 Open the disinfection cover and lift out the disinfection spray handle. See Fig. 3
- 10 Check the level of disinfectant.
- 11 Press the disinfection button (A) on the control panel for 5 s. The LED will light up green. See Fig. 4
For bathtubs with Air Spa system:
Approximate time for the automatic disinfection is 3 to 4 minutes. 10 seconds after the start, the disinfection spray handle is activated for 2 minutes before it shuts off.
- 12 Aim the disinfection spray handle into the bathtub and press the trigger.

Fig. 2

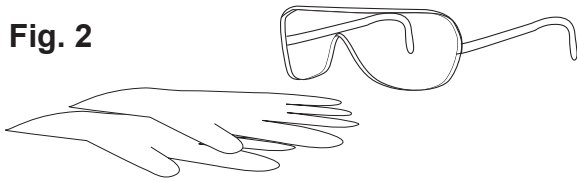


Fig. 3

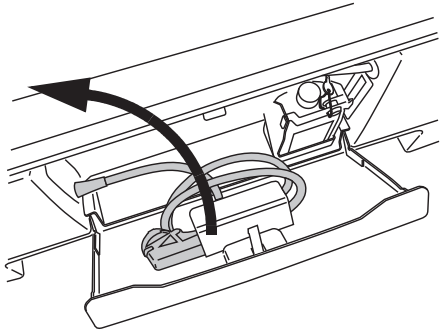
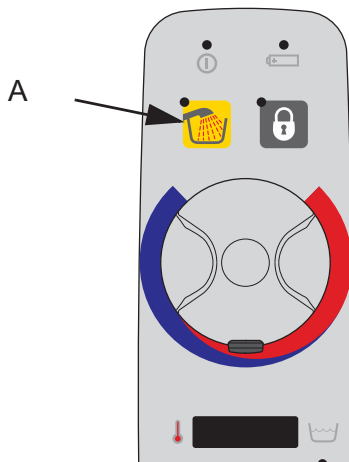


Fig. 4



Continue with the steps on the next page.

Fig. 5

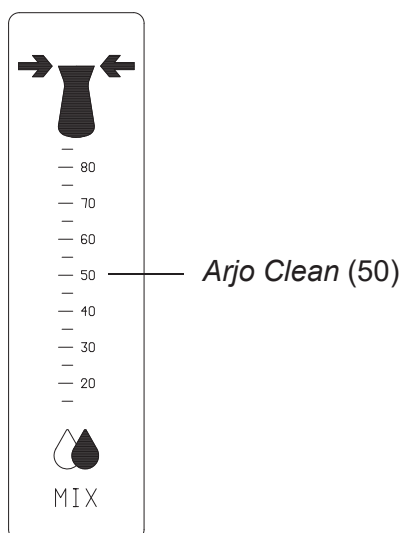


Fig. 6

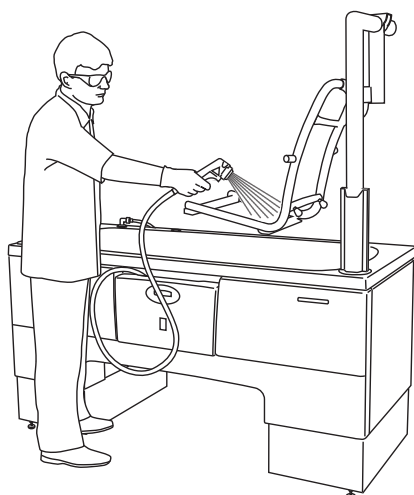


Fig. 7

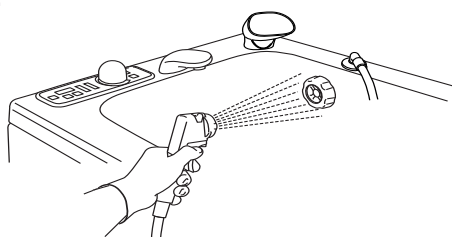
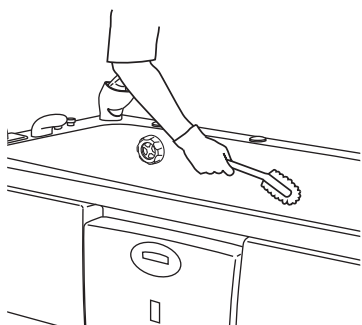


Fig. 8



- 13 Make sure the flow meter shows the right mix ratio as stated in the *IFU*, adjust if needed. Lower the water temperature to approximately 20 °C. See Fig. 5
- 14 Spray disinfectant in drain. Use a long handled brush to scrub drain.
- 15 Close the drainage plug.
- 16 Spray disinfectant using the disinfection handle on all internal *Malibu/Sovereign* bathtub surfaces, lifting arm, transfer chair and the loose parts and the accessories at the bottom of the bathtub. Turn the loose parts and the accessories and spray on other side. Pay attention to parts and knobs and sensors attached to the *Malibu/Sovereign* bathtub surface such as drain control knob/surface overflow outlet. See Fig. 6
- 17 Spray disinfectant into the overflow outlet. See Fig. 7
- 18 Scrub the surfaces of *Malibu/Sovereign* bathtub, loose parts and accessories with a soft bristle brush or cloth (to remove any deposits e.g. skin flakes). Scrub thoroughly, especially on handles. See Fig. 8
- 19 Soak a cloth in disinfectant.
- 20 Wipe all other contact areas such as the outside of the *Malibu/Sovereign* bathtub (particularly behind the head), metal sensory knobs, hand control and the transfer chassis (optional) with the cloth.
- 21 **For bathtubs with Air Spa system:**
Disinfection cycle will turn off automatically.
For bathtubs without Air Spa system:
Press the Disinfection button on the control panel to end the disinfection process.
- 22 Put the disinfection spray handle back.
- 23 Open the drainage plug.
- 24 Rinse all parts clean with plenty of water having a temperature of approximately 25 °C to rinse off the disinfectant fluid.
- 25 Wet a new cloth with water and remove all traces of disinfectant on contact areas. The cloth should occasionally be rinsed in running water when removing disinfectant.

Continue with the steps on the next page.

Disinfect (step 26-40)

- 26 Press the disinfection button on the control panel for 5 s. The LED will light up green
For bathtubs with Air Spa system:
Approximate time for the automatic disinfection is 3 to 4 minutes. 10 seconds after the start, the disinfection spray handle is activated for 2 minutes before it shuts off.
- 27 Spray disinfectant into the drain.
- 28 Close the drainage plug.
- 29 Spray disinfectant on all internal *Malibu/Sovereign* bathtub surfaces, lifting arm, transfer chair and the loose parts and accessories at the bottom of the bathtub. Turn accessories and spray on other side. Pay attention to parts and knobs attached to the *Malibu/Sovereign* bathtub surface such as drain control knob/surface overflow outlet.
- 30 Soak a cloth in disinfectant.
- 31 Wipe all other contact areas such as the outside of the *Malibu/Sovereign* bathtub (particularly behind the head), metal sensory knobs, hand control and transfer chassis (optional) with the cloth.
- 32 Allow an appropriate contact time of the disinfectant according to the disinfectant IFU.
- 33 **For bathtubs with Air Spa system:**
Disinfection cycle will turn off automatically.
For bathtubs without Air Spa system:
Press the Disinfection button on the control panel to end the disinfection process.
- 34 Put the disinfectant spray handle back.
- 35 Open the drainage plug.
- 36 Rinse all parts clean with water having a temperature of approximately 25 °C using the shower handle to remove the disinfectant.
- 37 Wet a new cloth with water and remove all traces of disinfectant on contact areas. The cloth should occasionally be rinsed in running water when removing disinfectant.
- 38 Place the shower handle in the holder.
- 39 Leave to air dry.
- 40 Attach armrests and seat. Make sure the seat is attached. Attach the neck pillow, safety belt and rest of the accessories.

Care and Preventive Maintenance

The *Malibu/Sovereign* bathtub is subject to wear and tear, and the following actions must be performed when specified to make sure that the product remains within its original manufacturing specification.

WARNING

To avoid malfunction resulting in injury, make sure to conduct regular inspections and follow the recommended maintenance schedule. In some cases due to heavy use of the product and exposure to aggressive environment more frequent inspections should be carried out. Local regulations and standards may be more stringent than the recommended maintenance schedule.

PREVENTIVE MAINTENANCE SCHEDULE: *Malibu/Sovereign* bathtub

CAREGIVER OBLIGATIONS Action/Check	Between Patients	Every Week	Every Month	Every Year	Every 2:nd Year	Every 5:th Year
Clean and Disinfect	X					
Visually check all exposed parts		X				
Visually check mechanical attachments		X				
Visually check hoses, pipes and connections		X				
Check hand control and cable		X				
Check castors and brakes on transfer chassis		X				
Perform functionality test		X				
Check neck pillow		X				
Visually check the safety belt		X				
Exercise thermostat mixer			X			
Check/clean filters, incoming water			X			
Check expiring date for seat, replace before expired			X			
Yearly checks by qualified personnel only				X		
Replace safety belt					X	
Replace seat						X
Check electrical installation (to be performed by authorized electrician) Intervals according to local requirements						

WARNING

To avoid injury to both the patient and the caregiver, never modify the equipment or use incompatible parts.

CAUTION

Product shall not be maintained and serviced while in use with the patient.

Fig. 1

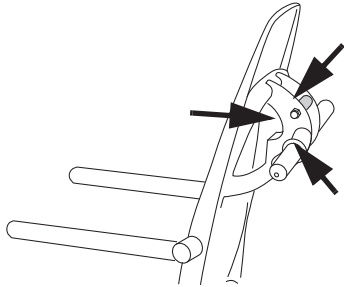
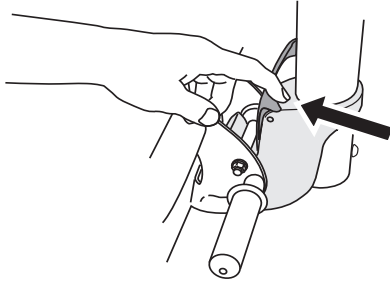


Fig. 2

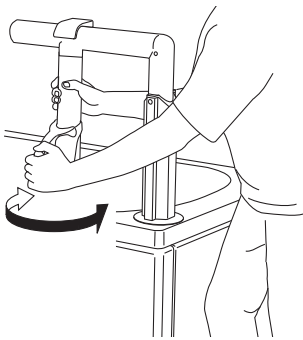
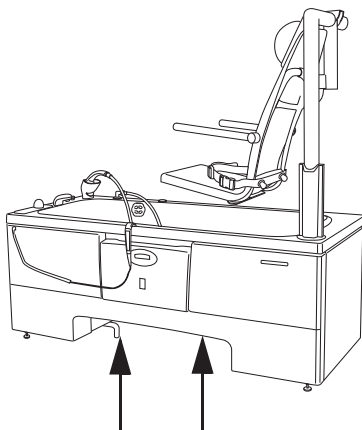


Fig. 3



Caregiver Obligations

Caregiver obligations shall be carried out by personnel with sufficient *Malibu/Sovereign* bathtub knowledge following the instructions in this *IFU*.

Between Patients

Clean and disinfect:

Before every use, make sure the *Malibu/Sovereign* bathtub is cleaned and disinfected according to section *Cleaning and Disinfection Instructions* on page 36.

Every Week

Visually check all exposed parts:

- 1 Especially check parts in contact with patient or caregiver.
- 2 Make sure that no cracks or sharp edges could cause injury or become unhygienic.

Visually check mechanical attachments:

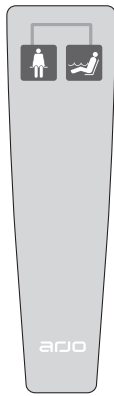
- 1 Check that all screws and nuts are tightened and that there are no gaps.
- 2 Check safety catch and transfer chair attachment for ease of movement and intact parts. See Fig. 1
- 3 Check the lifting hook attachment (with transfer chair unhooked) by trying to rotate the hook when holding the lifting arm fixed. See Fig. 2
- 4 Check for corrosion.

Visually check hoses, pipes and connections:

Visually check for leaks of any kind underneath the *Malibu/Sovereign* bathtub. See Fig. 3

Continue with the steps on the next page.

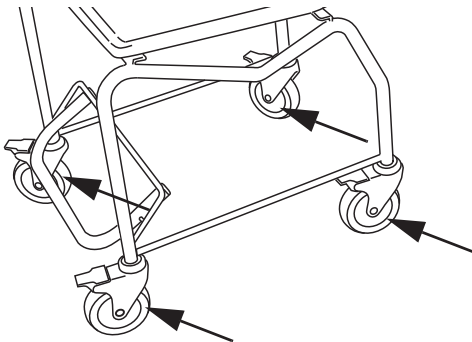
Fig. 4



Check hand control and cable:

Visually check the condition of the hand control and its cable. If found cut or damaged, replace it. See Fig. 4

Fig. 5

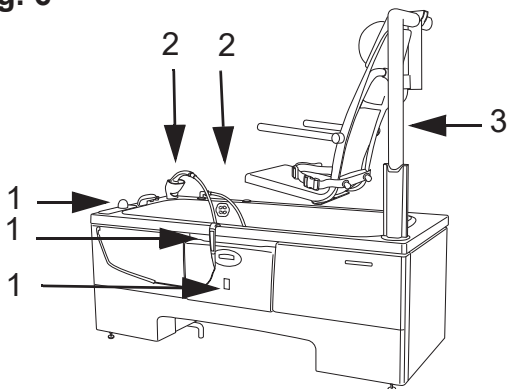


Check castors and brakes on transfer chassis:

Check that the castors are properly fixed and are rolling and swivelling freely, (the function can be affected by soap, hair, dust and chemicals from floor cleaning). Use water for cleaning.

Apply the brakes on the castors and make sure the castors can not move. See Fig. 5

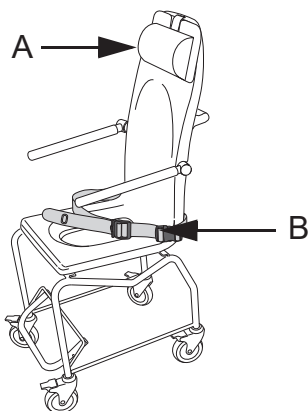
Fig. 6



Perform functionality test:

- 1 Test all panel and hand control functions, disinfection options and the lifting functions.
- 2 With water turned on, check shower hose, handle and holder for damage.
- 3 *Sovereign* bathtub lifting arm: Check lifting arm for correct movement by checking that the transfer chair slides on the seat guides in the bathtub. See Fig. 6

Fig. 7



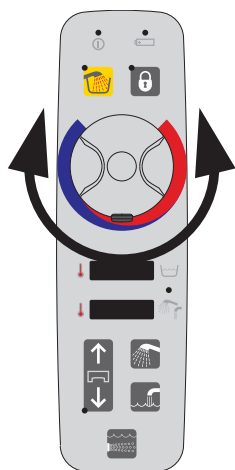
Check neck pillow:

Make sure there are no cracks or tears that would allow water to get into the filling. If there is such damage, replace the pillow (A). See Fig. 7

Visually check the safety belt:

Check the complete safety belt (B) for fraying, cuts, cracks, tears, that no inner fabric is showing and that no other damage is visible. If found cut or damaged, replace it. See Fig. 7

Fig. 1



Every Month

Test the thermostatic mixer

Turn the temperature control back and forth over the entire temperature range with water on. This is particularly important in areas with hard water.

Make sure the temperature is changing. See Fig. 1

Check/clean filters for incoming water:

WARNING

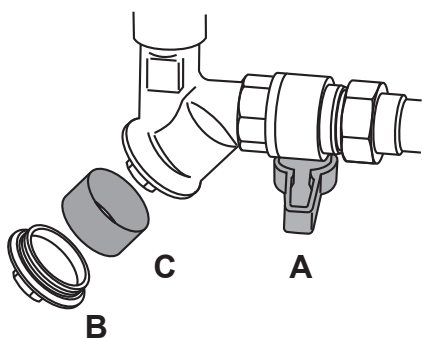
Pressurised system and risk of scalding. Make sure that the valve (A) is closed before removing the cap, this is especially important for the hot water valve. See Fig. 2

A shut-off valve with a filter is mounted on each of the two water supply hoses.

To access these:

- 1 Make sure the *Malibu/Sovereign* bathtub is in its highest position.
- 2 The shut-off valve can be reached under the *Malibu/Sovereign* bathtub.

Fig. 2



The filter in both valves should be rinsed as follows:

- 1 Close the valves (A). The handles (red for hot water and blue for cold) should be in a cross position. See Fig. 2
- 2 Remove the cap (B) with a wrench.
- 3 Pull out the filter (C) and clean it carefully in water.
- 4 Reassemble (B) and (C).
- 5 Open the valves. (A)

Yearly Checks by Qualified Personnel Only

The *Malibu/Sovereign* bathtub must be serviced once a year in accordance with the *Maintenance and Repair Manual*.

Contact your local Arjo service representative to sign for a service agreement.

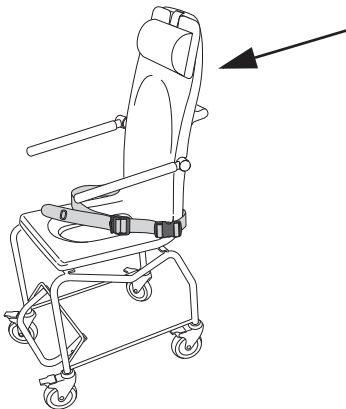
WARNING

To avoid injury and/or unsafe product, the maintenance activities must be carried out at the correct frequency by qualified personnel using correct tools, parts and knowledge of procedures. Qualified personnel must have documented training in maintenance of this device.

NOTE

All Caregiver Obligations are to be checked when performing the Qualified Personnel Service. For details, see separate service instructions.

Fig. 1



Every 2:nd Year

- Replace safety belt

Every 5:th Year

- Replace seat before it has expired.
- Check expiring date for seat:
Look at the label located on the back of the seat to find the expiration date. See Fig. 1

Troubleshooting

NOTE

Before starting the troubleshooting check: Power supply, Water supply and the LEDs on control panel. If the problem can not be solved with the problem solving actions below, please contact an Arjo authorized technician.

PROBLEM	ACTION
Nothing happens when pushing a button.	Check that the emergency stop button is not pushed down, reset until it pops-up.
<i>Malibu/Sovereign</i> bathtub can not be raised when the lifting arm is outside the bathtub.	<ol style="list-style-type: none"> Swing the lifting arm into the <i>Malibu/Sovereign</i> bathtub. Check hand control.
The battery level LED is turned on but the main LED is turned off.	Power failure.
Nothing happens when pushing a button on the hand control.	Replace hand control.
Lifting arm “up/down” and “in/out” of the <i>Malibu/Sovereign</i> bathtub does not work.	Check hand control and cables, replace if necessary.
Lifting arm “in/out” of the <i>Malibu/Sovereign</i> bathtub does not work.	<ol style="list-style-type: none"> <i>Malibu/Sovereign</i> bathtub is not in the lowest position. Lower the bathtub. Check hand control and cables, replace if necessary.
No water flow or bad water flow during <i>Malibu/Sovereign</i> bathtub filling and shower.	<ol style="list-style-type: none"> Check incoming water flow. Check/clean filters.
No water flow or bad spray pattern during shower only.	<ul style="list-style-type: none"> No water flow: Turn the shower off if no water comes out from shower handle within 30s. Contact qualified personnel. Bad spray pattern: Check shower handle. Replace if necessary.
The water temperature can not be regulated.	Check temperature on incoming water.
Temperature display shows: --.- Scalding protection not working	Contact qualified personnel.
It is only possible to lower the lift.	The lifting device of this equipment is equipped with a safety nut. If the safety nut will be activated it will only be possible to lower the equipment into a safe position. In case of this scenario stop using the equipment and contact qualified personnel for repair.

ALARM	ACTION
The LED on the disinfection button flashes green and a buzzer alarm sounds, when pushing the button.	Disinfectant bottle is empty, replace.
The battery level LED is showing a steady yellow light when the lift and <i>Malibu/Sovereign</i> bathtub is operated by battery	<p>This means that mains is off and battery is low.</p> <ol style="list-style-type: none"> 1 Continue <i>Malibu/Sovereign</i> bathtub if started. 2 Wait for mains to return before starting a new <i>Malibu/Sovereign</i> bathtub. 3 With mains on, check battery level LED for a green light indication. When the battery level with green LED light is steady, the battery is charged.
Battery level LED flashing green with mains on and battery connected.	<ol style="list-style-type: none"> 1 Battery is charging, the battery is fully charged when green LED light becomes steady. 2 If the battery level LED never becomes steady, the battery needs to be replaced during next service.
HI/LO LED is flashing yellow when trying to lifting arm "out" of <i>Malibu/Sovereign</i> bathtub.	<p>This means that the <i>Malibu/Sovereign</i> bathtub is not in lowest position.</p> <p>Lower the <i>Malibu/Sovereign</i> bathtub to lowest position.</p>

Technical Specifications

General	
SWL (Safety working Load) (patient + water)	
Malibu 1600	367 kg
Malibu 1700	415 kg
Sovereign	345 kg
Maximum patient weight	130 kg
<i>Malibu/Sovereign</i> bathtub width	770 mm
<i>Malibu 1600</i> bathtub length	1602 mm
<i>Malibu 1700 /Sovereign</i> bathtub length	1702 mm
Overall maximum height	2010 mm
<i>Malibu</i> bathtub volume 1600 (full, without patient)	237 l
<i>Malibu</i> bathtub volume 1700 (full, without patient)	285 l
<i>Sovereign</i> bathtub volume 1700 mm (full, without patient)	215 l
Total weight of lift (without patient)	35kg
Bathtub weight, excluding package, with all panels Malibu 1600, Malibu 1700 and Sovereign	172 kg
Maximum floor load	576 kg / 1 m ²
Maximum floor pressure	4.5 N/mm ²
Maximum ambient temperature	40 °C
Operating force: Push buttons on hand control and panel Emergency stop	3 ± 1 N 10 ± 1 N
Degree of protection Class: Lift (Hi-Lo)	IPX4 IP: Ingress Protection X: The protection against contact and ingress of objects is not specified for this product. 4: Water splashing against the product from any direction does not effect safety or essential performance
Degree of protection Class: Hand control	IPX7 IP: Ingress Protection X: The protection against contact and ingress of objects is not specified for this product. 7: Immersion up to 1 m of the product does not effect safety or essential performance
Seating Material	Polypropylene
Pollution degree	2
Degree of fire protection	In accordance with standard EN/ISO 60601-1

With Height Adjustable <i>Malibu/Sovereign</i> Bathtub and/or Lifting Arm	
Voltage	230 V single phase AC
Frequency	50 Hz
Power consumption	1000 VA
Fuses	
External	230 V 10 A
Internal	230 V 6,3 A
Power supply cord	Only replaced by qualified personnel.
Lifting stroke (<i>Malibu/Sovereign</i> bathtub)	300 mm
Malibu 1600 with patient lift	540 mm (inside) / 500 mm (outside)
Malibu 1700 / <i>Sovereign</i> with patient lift	585 mm (inside) / 500 mm (outside)
<i>Malibu/Sovereign</i> bathtub raising time (full load)	33 ± 5 s
<i>Malibu/Sovereign</i> bathtub lowering time (full load)	
Malibu 1600	28 ± 2 s
Malibu 1700	28 ± 2 s
<i>Sovereign</i>	29 ± 2 s
Patient lift for Malibu 1600	22 ± 2 s (inside) 20 ± 2 s (outside)
Patient lift for Malibu 1700	22 ± 2 s (inside) 20 ± 2 s (outside)
Patient lift for <i>Sovereign</i>	25 ± 2 s (inside) 21 ± 2 s (outside)
Cyclic time for lifting arm movement (up-turn-down, full load)	
Malibu 1600 with patient lift	61 ± 2 s
Malibu 1700 with patient lift	60 ± 2 s
<i>Sovereign</i> with patient lift	61 ± 2 s
Maximum duty cycle: Lift actuator chair and <i>Malibu/Sovereign</i> bathtub	1 minute ON 9 minutes OFF
Maximum duty cycle: Air Spa system	15 minutes ON 15 minutes OFF

WARNING

To avoid electric shock, make sure that the equipment is connected to:

- Continuously powered supply mains with protective earth.
- Separate fuse and ground fault circuit interrupter (GFCI)
- A mains disconnection device

All installations must be in accordance with local codes and regulations.

NOTE

All drainage, water and electrical installation work should be carried out by qualified personnel, in accordance to Assembly and Installation Instructions with local and national regulations.

Thermometer	
Range	10-50 °C
Accuracy	+/-1 °C
Resolution	0.1 °C

Operating Conditions	
Ambient temperature	5 °C – 35 °C
Relative humidity	30% - 90% Rh
Atmospheric pressure	800 hPa to 1060 hPa

Transport and Storage	
Ambient temperature	-20 °C to 70 °C
Relative humidity	10% - 80% at 20 °C
Atmospheric pressure	500 hPa to 1100 hPa

Mains Disconnection Device	
Permanently installed in wall. visible and accessible at all times	
Mains transient voltage	4 kV*
Creepage distance	3 mm*
Air clearance	1.8 mm*
Direction of movement	Up and down, right and left, clockwise and counterclockwise
* If local regulations are higher, they must be met.	

Water Connections	
Cold/hot water connection	G 3/4" male (customers connection)
Maximum static pressure	6 bar (600 kPa, 87 psi)
Minimum operating pressure	1 bar (100 kPa, 15 psi)
Minimum drainage capacity	100 l/minute
Temperature - Cold water supply	5 - 20 °C
Temperature - Hot water supply For WRAS approval the inlet water must be within:	55 - 60 °C The system is tested up to 80 °C


Allowed Product Compatibility	
<i>Malibu/Sovereign</i> bathtub integrates with the following Arjo products:	<i>Maxi Sky Range</i> (All models but MS 1000 and Large hanger bars and stretchers), <i>Maxi Move Range</i> (All hanger bars but Large and Stretchers), <i>Maxi Twin Range</i> (All hanger bars but Large), <i>Sara 3000</i> , <i>Sara Plus</i> , <i>Sara Lite</i> and <i>Stedy</i> .
No other combinations are allowed	

Recycling	
Battery (Optional)	Recyclable. Not for disposal. Environment danger
Package	Wood and corrugated cardboard, recyclable
The product	Electric, steel and plastic parts shall be separated and recycled according to marking on the unit.



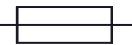



Disposal of <i>Malibu/Sovereign</i> bathtub	
<i>Malibu/Sovereign</i> Bathtub	<p>End of Life Disposal</p> <ul style="list-style-type: none"> • Equipment that has electrical and electronic components should be disassembled and recycled per Waste of Electrical and Electronic Equipment (WEEE) or in accordance with local or national regulation. • Disinfection liquids – if you have extra liquid, it's safe to pour it down the drain with running water. These products are water soluble and usually mixed with water when used for cleaning, your municipality will treat these cleaners the same way they would if you used them for cleaning. • The packaging containers should be recycled according to the national or local regulations.











Labels

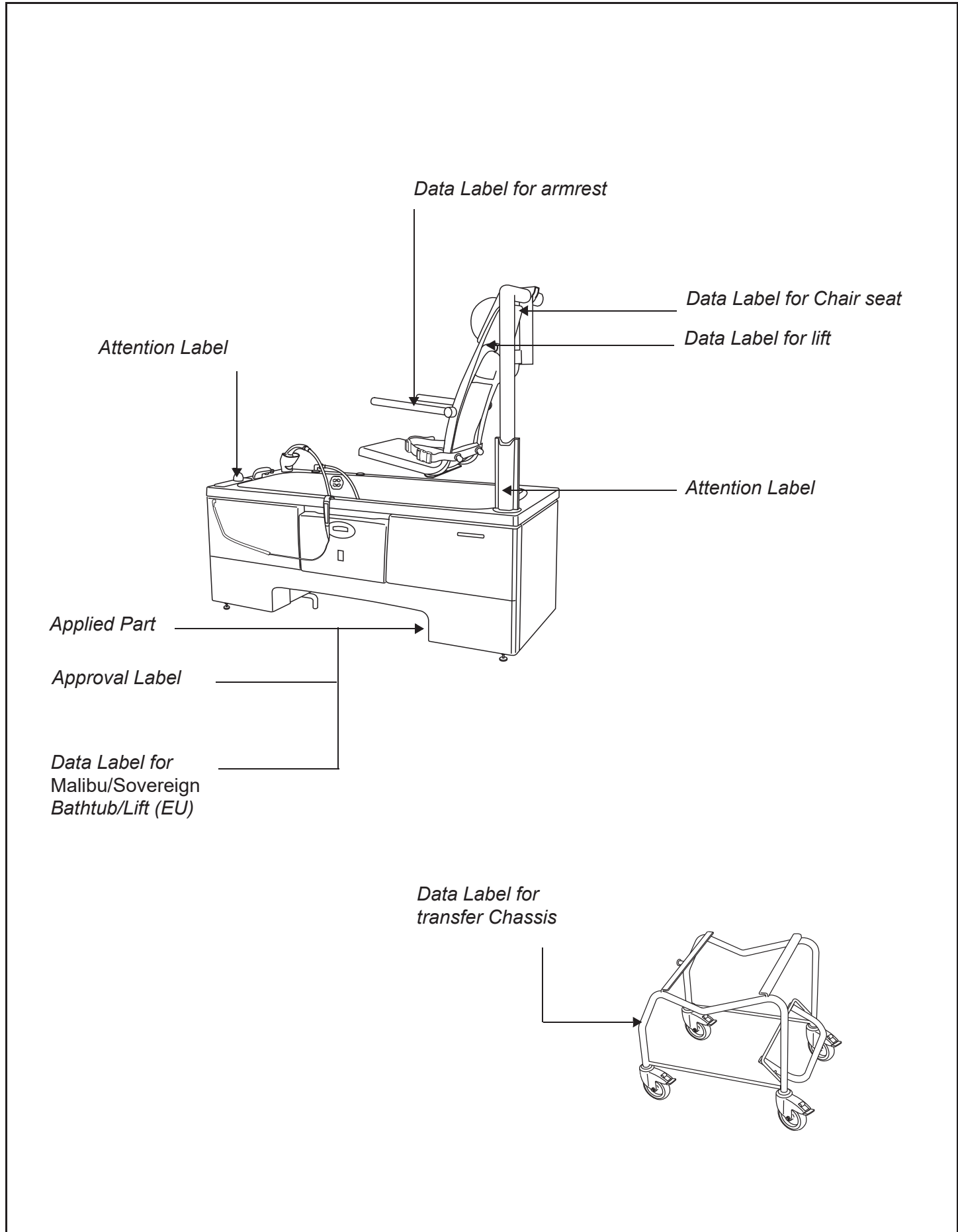
Label explanation

	Type B, Applied part: protection against electrical shock in accordance with IEC 60601
Attention Label	Important user information for correct use
Approval Label	States approvals for the current product
Battery Label	States safety and environmental information for the battery
Data Label	States technical performance and requirements, e.g. Input Power, Input Voltage and maximum Patient Weight etc.
Identification Label	States the product identification, serial number and year and month of manufacturing

Symbol explanation

	Warning
	Lifting stroke
	Fuse
Supply voltage	Supply voltage Voltage Feed
1000 VA	Power maximum
IPX4	Protection class (i.e. the product is protected against splashing water)
Class I	Connected to protective earth.
Mode of operation	Time span of operation being turned ON and OFF
	Refer to instruction manual/ booklet - Instructions for use should be read
	The manufacturer's catalogue number
	The manufacturer's serial number

	The legal manufacturer of a product
	The date when the medical device was manufactured
	Separate electrical and electronic components for recycling in accordance with the European Directive 2012/19/EU (WEEE)
 XXXX-XX	Expiration date for the seat: year and month
SWL	Safe working load
Max Patient Weight	Maximum weight of the patient
Mode of operation	Time span of <i>Malibu/Sovereign</i> bathtub lift and Air Spa system turned ON and OFF
	Medical - General Medical Equipment as to electrical shock, fire and mechanical hazards only in accordance with: ANSI/AAMI ES60601-1: A1:2012, C1:2009/(R)2012 and A2:2010/(R)2012, A2:2021; CSA CAN/CSA-C22.2 NO. 60601-1:14, AMD2:2022; IEC 60601-1:2005, AMD1:2012, AMD:2020
	CE marking indicating conformity with European Community harmonised legislation. Figures indicate Notified Body supervision
	(Water Fittings) Regulations 1999 (the Water Byelaws 2000 in Scotland)
	Indicates the product is a Medical Device
	Unique device identifier
AZ6XXXXXX	Product code
	Parts weighing more than 10 kg



UK Symbol explanation

This section is only applicable to United Kingdom (UK) market when UK marking is applied to the Arjo medical device labelling.

The logo consists of the letters 'UK' stacked above 'CA', with the number '0086' below them, all in a bold, sans-serif font.

UK marking indicating conformity with UK Medical Devices Regulations 2002 (SI 2002 No 618, as amended)

Figures indicate UK Approved Body supervision.

UK Responsible Person & UK Importer:

Arjo (UK) Ltd, ArjoHuntleigh House, Houghton Regis. LU5 5XF

Is the appointed UK Responsible Person as defined in UK Medical Devices Regulations 2002 (SI 2002 No 618, as amended).

For Northern Ireland (NI) CE marking will still apply until further amendment to applicable regulations.

Electromagnetic Compatibility

Product has been tested for compliance with current regulatory standards regarding its capacity to block EMI (electromagnetic interference) from external sources.

Some procedures can help reduce electromagnetic interferences:

- Ensure that other devices in patient-monitoring and/or life-support areas comply to accepted emissions standards.

WARNING

Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.

WARNING

Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the Malibu/Sovereign, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.

WARNING

Use of accessories, transducers and cables other than those specified or provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.

Intended Environment: Home Healthcare Environment and Professional Healthcare facility environment.

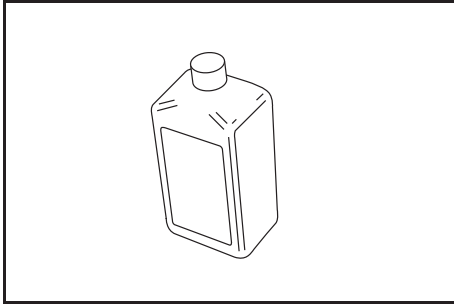
Exceptions: HF Surgical Equipment and the RF Shielded room of an ME SYSTEM for magnetic resonance imaging.

Guidance and manufacturer's declaration – electromagnetic emission

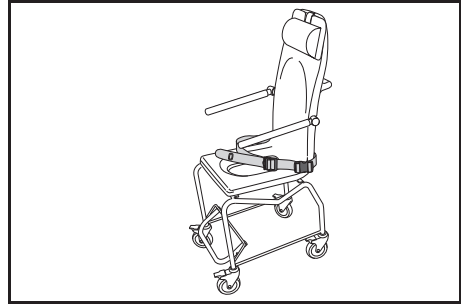
Emission test	Compliance	Guidance
RF emissions CISPR 11	Group 1	This equipment uses RF energy only for its internal functions. Therefore its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR 11	Class B	
Harmonic emissions IEC 61000-3-2	Class A	This equipment is suitable for use in all establishments, including domestic establishments and those directly connected to the public low voltage power supply network that supplies buildings used for domestic purposes.
Voltage fluctuations/ flicker emissions IEC 61000-3-3	Complies	

Guidance and manufacturer's declaration – electromagnetic immunity		
Immunity test	IEC 60601-1-2 test level	Compliance level
Electrostatic discharge (ESD) EN 61000-4-2	±2kV, ±4kV, ±8kV, ±15kV air ±8kV contact	±2kV, ±4kV, ±8kV, ±15kV air ±8kV contact
Conducted disturbances induced by RF fields EN 61000-4-6	3V in 0,15 MHz to 80 MHz 6V in ISM and amateur radio bands between 0,15 MHz and 80 MHz 80% AM at 1 kHz	3V in 0,15 MHz to 80 MHz 6V in ISM and amateur radio bands between 0,15 MHz and 80 MHz 80% AM at 1 kHz
Radiated RF electromagnetic field EN 61000-4-3	Home Healthcare environment 10 V/m 80 MHz to 2,7 GHz 80% AM at 1 kHz	Home Healthcare environment 10 V/m 80 MHz to 2,7 GHz 80% AM at 1 kHz
Proximity fields from RF wireless communications equipment EN 61000-4-3	385 MHz - 27 V/m 450 MHz - 28 V/m 710, 745, 780 MHz - 9V/m 810, 870, 930 MHz - 28 V/m 1720, 1845, 1970, 2450 MHz - 28 V/m 5240, 5500, 5785 MHz - 9V/m	385 MHz - 27 V/m 450 MHz - 28 V/m 710, 745, 780 MHz - 9V/m 810, 870, 930 MHz - 28 V/m 1720, 1845, 1970, 2450 MHz - 28 V/m 5240, 5500, 5785 MHz - 9V/m
Electrical fast transient/burst EN 61000-4-4	±2kV AC port 100kHz repetition frequency	±2kV AC port 100kHz repetition frequency
Power frequency Magnetic field EN 61000-4-8	30A/m 50 Hz or 60 Hz	30A/m 50 Hz
Surge IEC 61000-4-5	±0,5kV ±1kV; ±2 kV, AC Mains, Line to Ground ±0,5kV ±1kV, AC Mains, Line to Line	±0,5kV ±1kV; ±2 kV, AC Mains, Line to Ground ±0,5kV ±1kV, AC Mains, Line to Line
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	0% UT; 0,5 cycle At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315° 0% UT; 1 cycle and 70% UT; 25/30 cycles Single phase: at 0° 0% UT; 250/300 cycle	0% UT; 0,5 cycle At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315° 0% UT; 1 cycle and 70% UT; 25/30 cycles Single phase: at 0° 0% UT; 250/300 cycle
Proximity magnetic fields EN 61000-4-39	30 kHz - 8 A/m 134,2 kHz - 65 A/m 13,56 MHz - 7,5 A/m	30 kHz - 8 A/m 134,2 kHz - 65 A/m 13,56 MHz - 7,5 A/m
NOTE: UT is the AC mains voltage prior to application of the test level.		

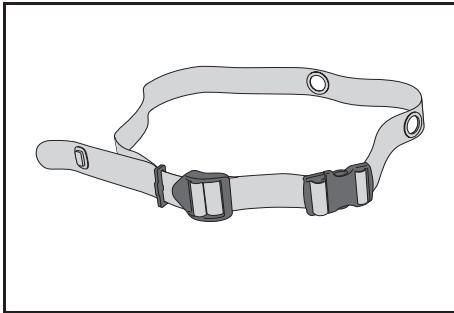
Parts and Accessories



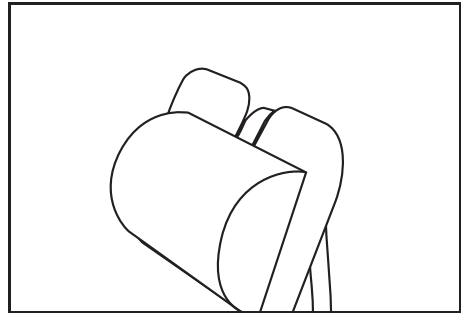
Disinfectant
Contact local Arjo representative



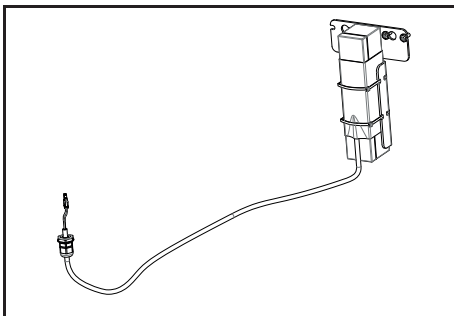
Commode seat - 8662345-041
Transfer chassis - S8557492



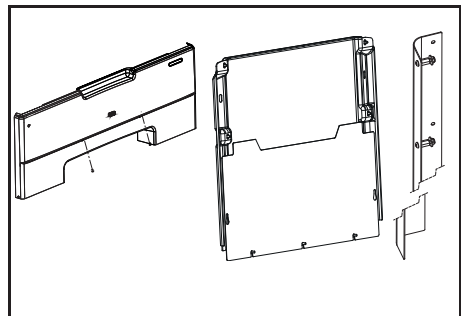
Safety belt
S8664559-03



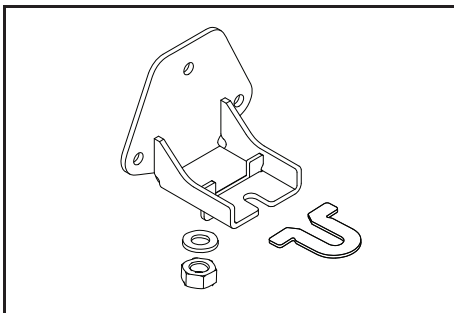
Neck Pillow
8350897-031



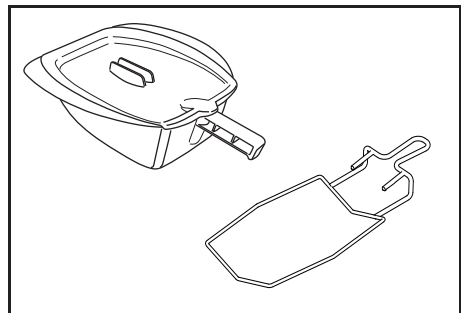
Battery Kit
AH1012091



Side cover - AH1008797
Back cover Malibu 1600 - AH1011993
Back Cover Malibu 1700/Sovereign- AH1011770
Corner cover - AH1006584



Wall Bracket kit
8547054



Bedpan CDA 1500-07
bedpan holder AJA-1105-09

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At Arjo, we believe that empowering movement within healthcare environments is essential to quality care. Our products and solutions are designed to promote a safe and dignified experience through patient handling, medical beds, personal hygiene, disinfection, diagnostics, and the prevention of pressure injuries and venous thromboembolism. With over 6500 people worldwide and 65 years caring for patients and healthcare professionals, we are committed to driving healthier outcomes for people facing mobility challenges.



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