

ASSEMBLY AND INSTALLATION INSTRUCTIONS

Symbliss

Bathtub



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Introduction

This Assembly and installation document provides information regarding the installation procedures for Symbliss bath.

Please read through the complete document prior to installing the product. This will facilitate the installation procedure and give the correct and optimal working conditions for everyone involved.

If Hot Water Flush is installed always test the Hot Water Flush Function after re-installing the covers.

Definitions

 **WARNING**

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

CAUTION

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

NOTE

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

Safety instructions

Before the work is started

CAUTION

It is recommended that assembly and installation of the Symbliss bath is conducted by Arjo qualified service personnel who have the knowledge to successfully implement all of the installations steps.

If the installation is to be conducted by non-approved technicians, any errors in the installation and assembly that damage the bathtub may invalidate the Arjo warranty provided with this bathtub on purchase.

If unsure about any steps in this assembly and installation, the technician should contact Arjo for support before proceeding.

NOTE

To prevent personal injury due to heavy lifts, suitable transporting aids must be available for transport to final destination.

- Make sure the electrical supply components are according to the product label.
- Make sure the assembly is carried out by qualified service personnel.
- Make sure the assembly is carried out in accordance with local regulations.

After the work is completed

- Check that all details are installed corresponding to the assembly and installation instructions.
- Check that all parts which a user may come into contact with are free of sharp edges.
- Check that all hoses, pipes and connections are intact and free from water leaks.
- Check that all hoses and pipes are free from obstructions and moving parts.
- Check that all system functions operate correctly.

Microbiological formation prevention

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

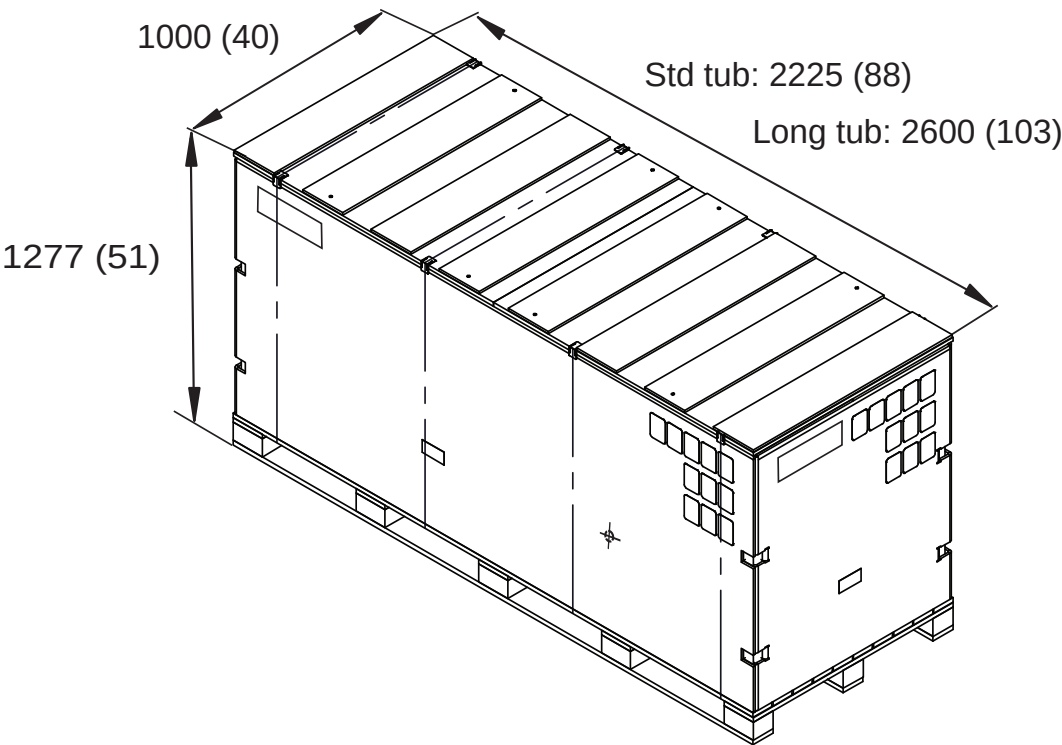
Installation precautions

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

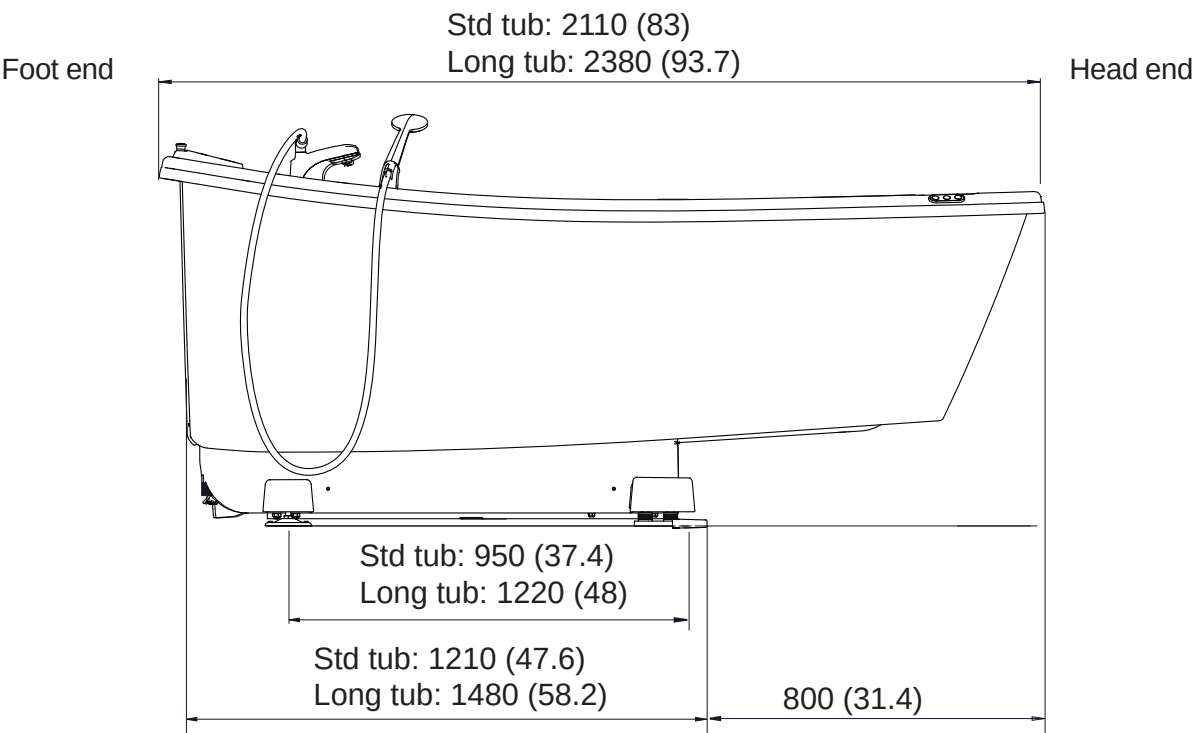
- Avoid stagnating water and make sure proper water circulation;
- Take precautions against the formation of scale and corrosion based on the water quality;
- Maintain a high water temperature all the way from the hot water dispenser to the different distribution pipes;
- Mix hot and cold water as close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

Dimensions and weights

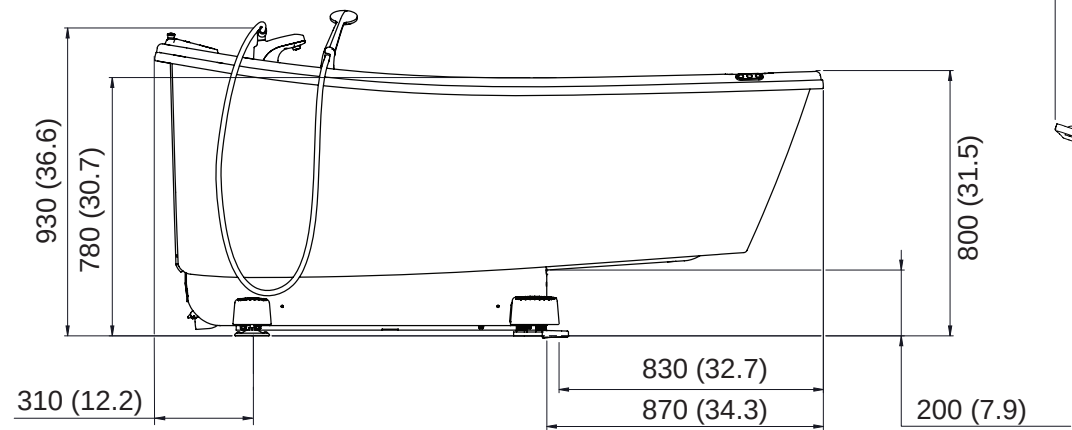
The bathtub is delivered fully assembled in one box.
All measurements are in mm (in) and weight are in kg (lb).



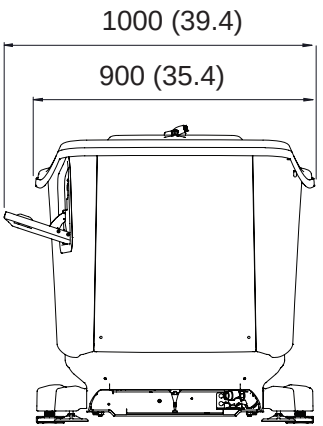
WEIGHT SYMBLISS BATHTUB IN BOX	
Box including Standard bathtub and accessories	320 kg (705 lb)
Box including Long bathtub and accessories	355 kg (783 lb)



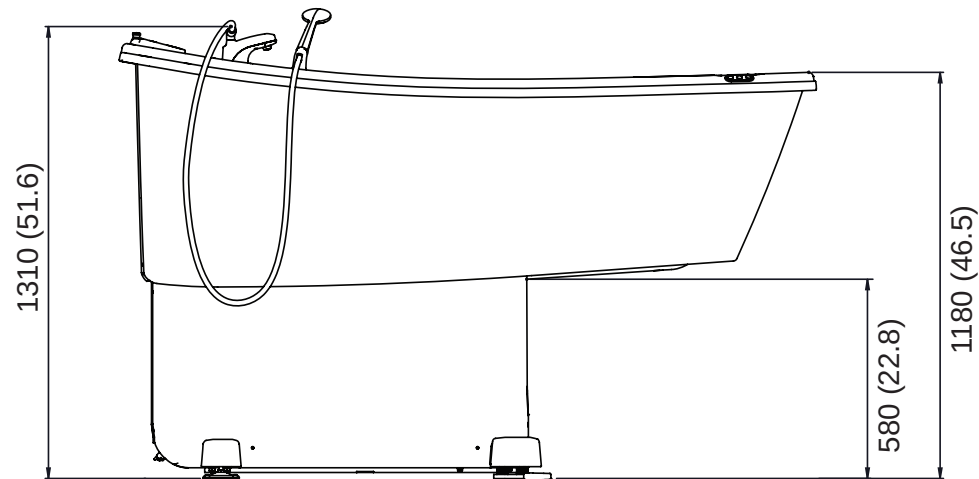
Side view bottom position



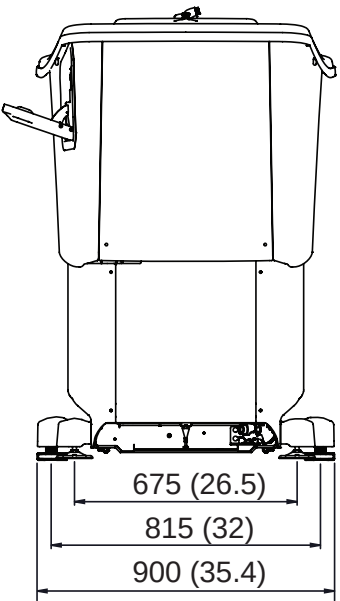
Front view, bottom position



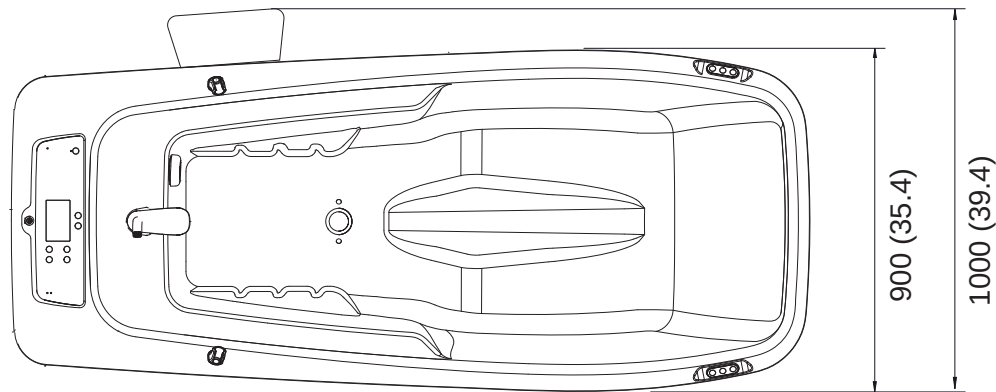
Side view in top position



Front view, top position



Top view



Space requirements

Space requirements around the bathtub

To give the best working conditions for the caregiver and the patient, install Symbliss bathtub according to the recommended space requirements.

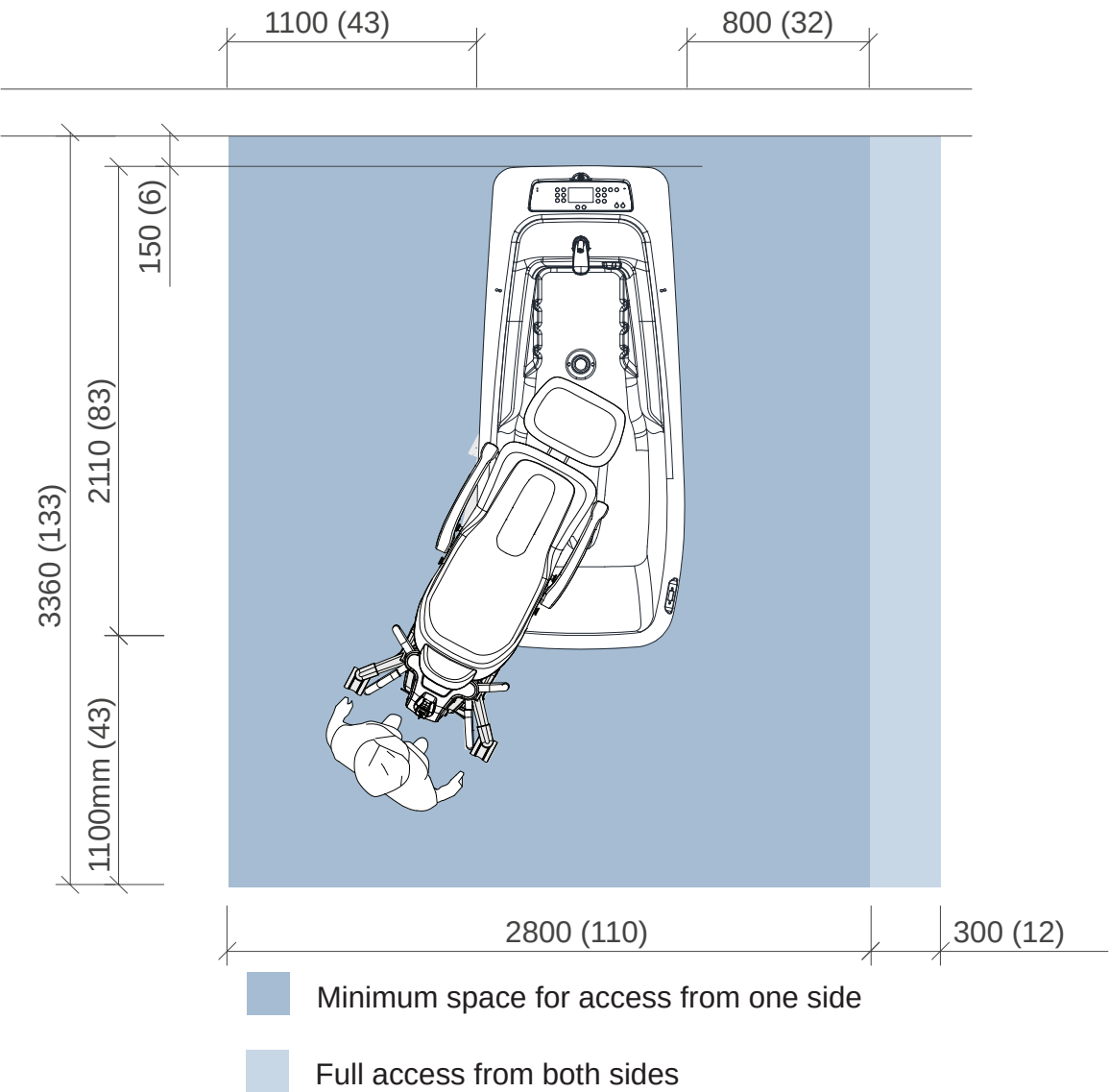
If the width of the doorway is less than 900 mm, the bathtub needs to be disassembled, see How to disassemble and assemble the bathtub on page 23. If the doorway width is equal to 900 mm, see Doorway width equal to 900 mm on page 46.

NOTE

These measurements do not include space for furniture and other personal items.
These dimensions are approximate. Unless otherwise stated, they should be treated as minimum requests.

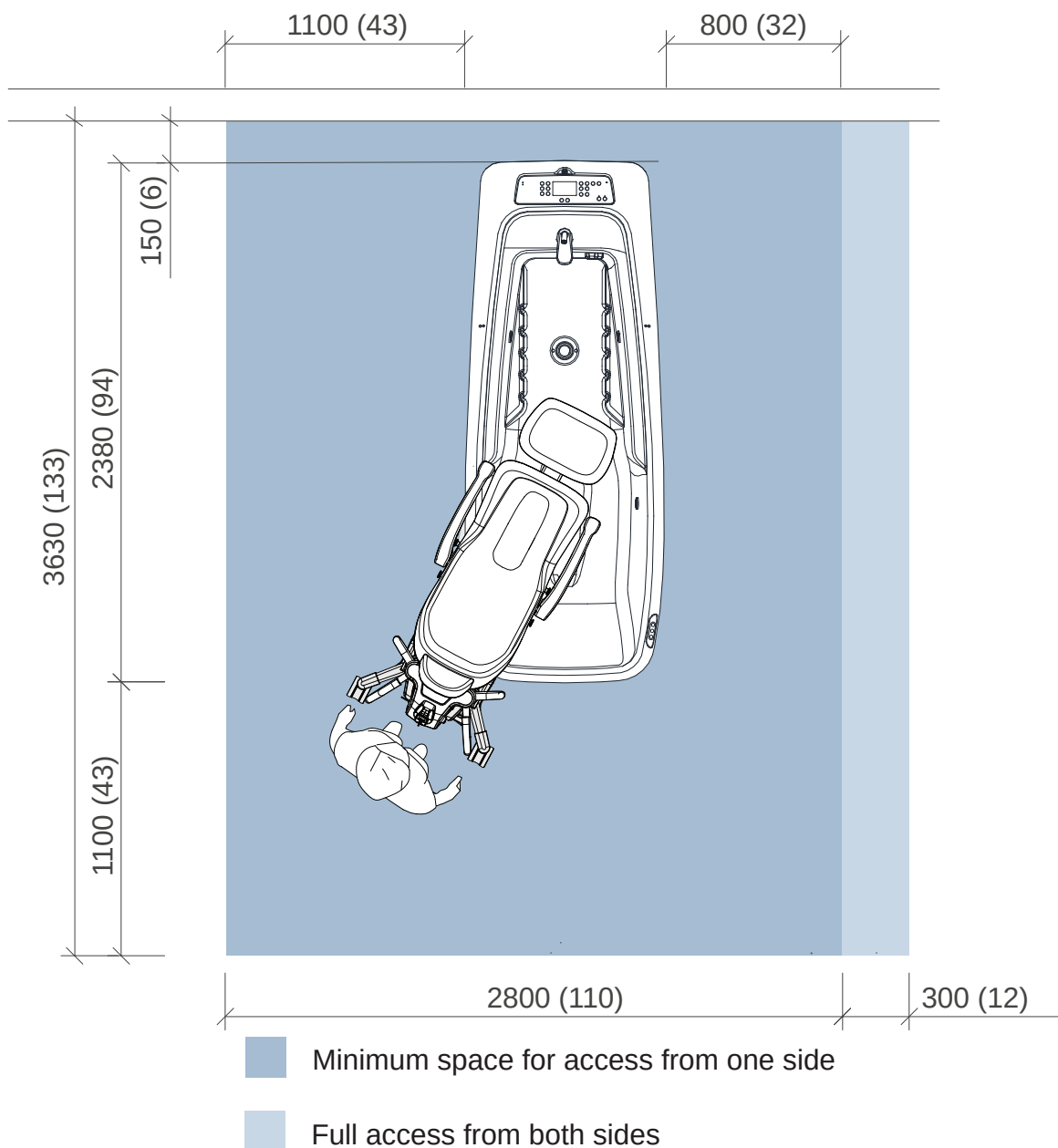
Symbliss standard bathtub

All measurements are in mm (in).



Symbliss long bathtub

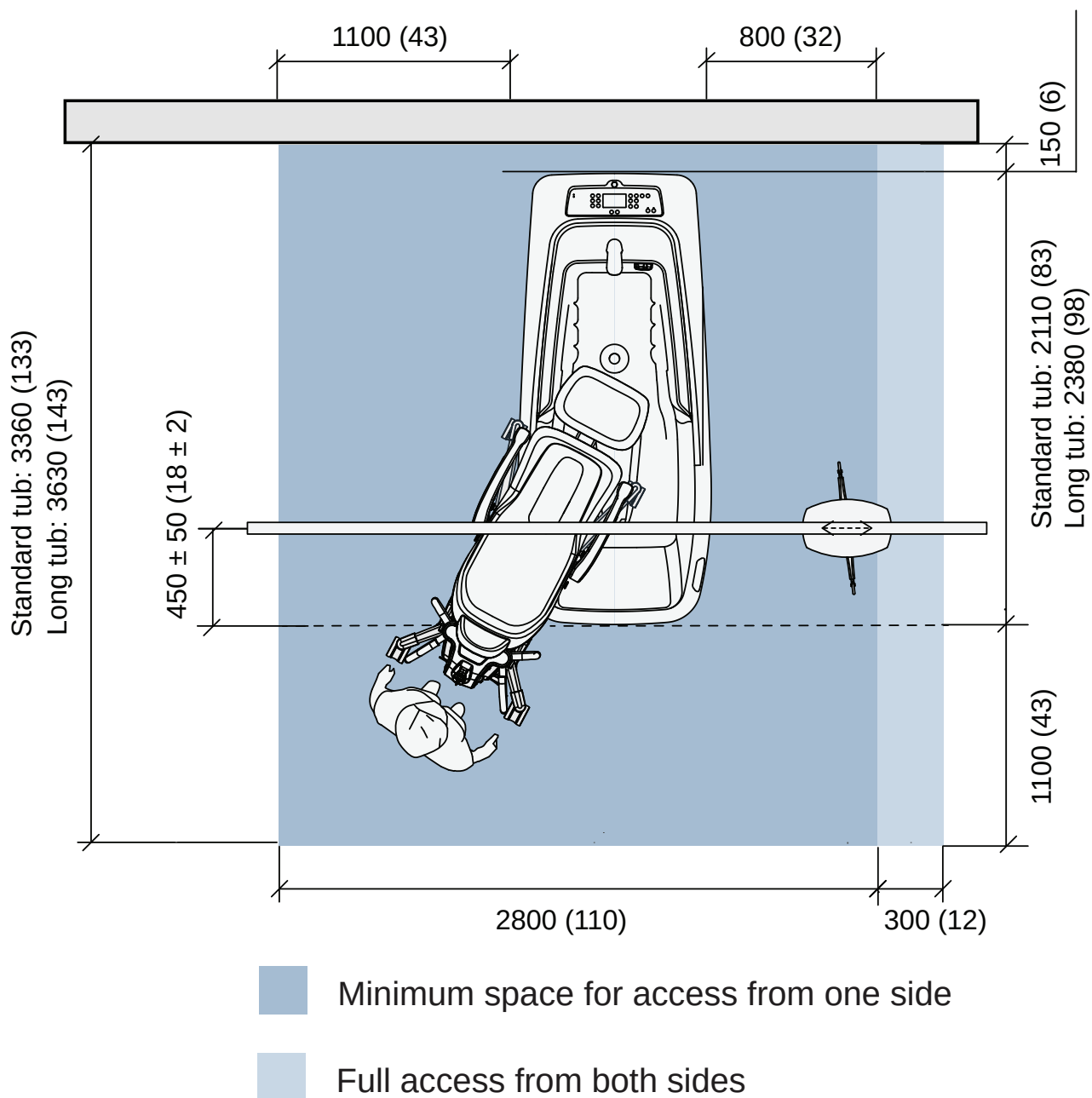
All measurements are in mm (in).



Symbliss standard and long bathtub with ceiling lift

If a ceiling lift and hoist are used, make sure to install the ceiling rails according to the drawing.

All measurements are in mm (in).



Space requirements transport

If the doorway width (elevator, bathroom door, other) is less than 900 mm, the bathtub needs to be disassembled. For required corridor width see below.

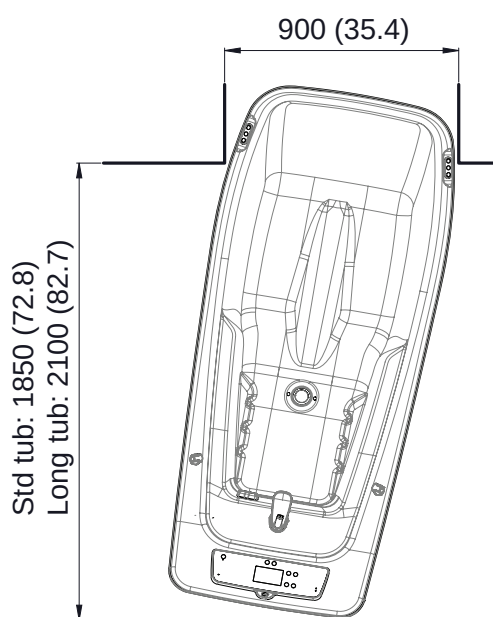
See How to disassemble and assemble the bathtub on page 23.

If the doorway width is equal to 900 mm, see Doorway width equal to 900 mm on page 46.

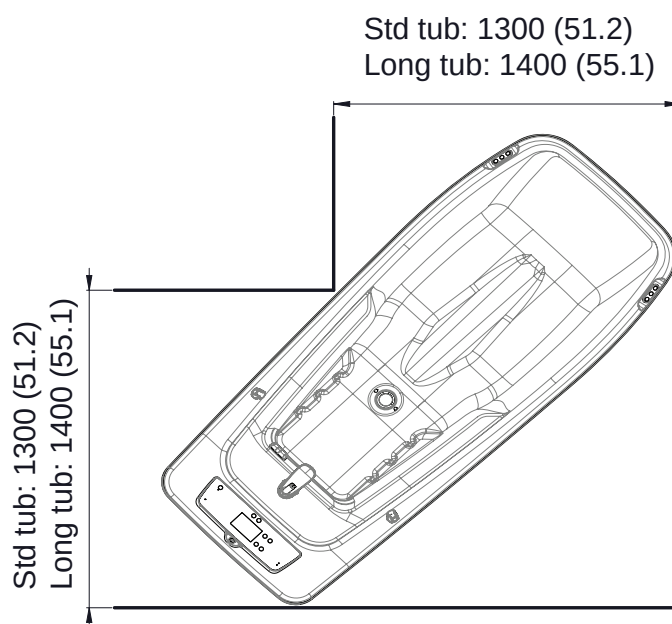
Assembled bathtub

All measurements are in mm (in).

Corridors and door openings

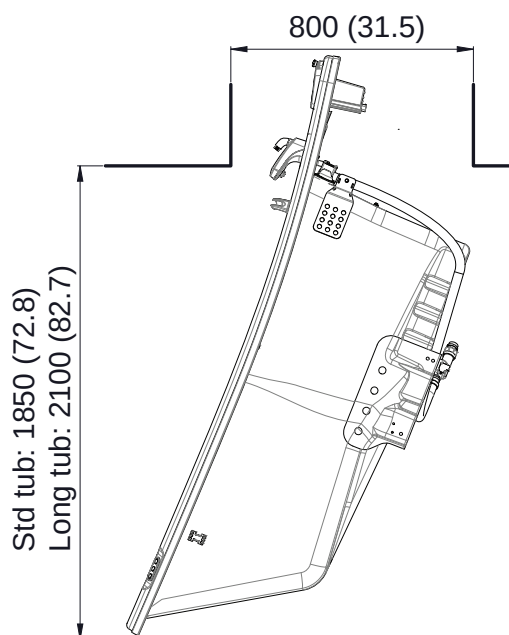


Corridor corners

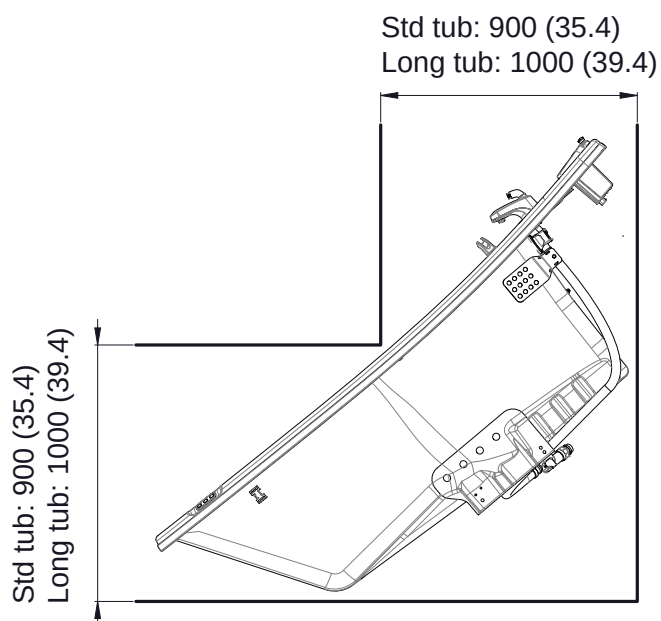


Disassembled bathtub

Corridors and door openings



Corridor corners



Unpacking and movement of the bathtub

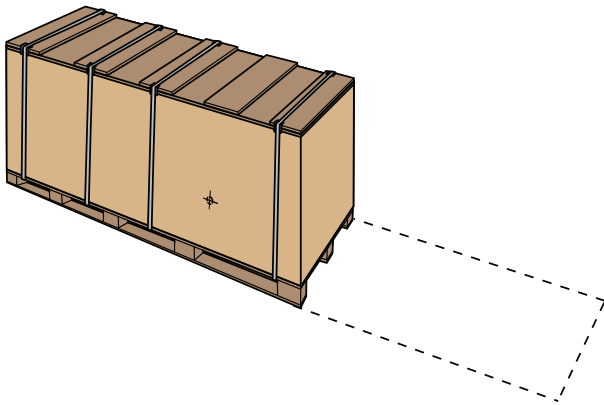


Figure 1

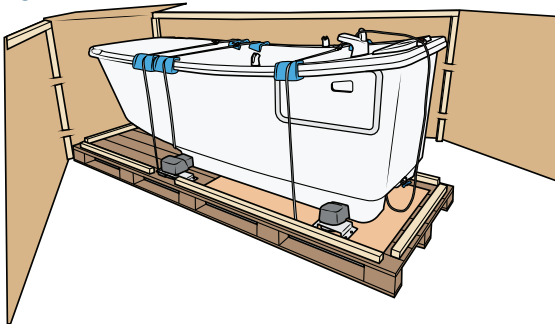


Figure 2

Open the box

1. Unload the pallet on to a hard surface.
If to unload the bathtub from the short end of the pallet, make sure:
 - there is enough space behind the pallet
 - the heavy side is positioned according to picture. See Figure 1.
2. Outer package: Cut the straps and lift off the top boards.

3.

CAUTION

To prevent damage to the laminate surface during unpacking, do not lift the box off.

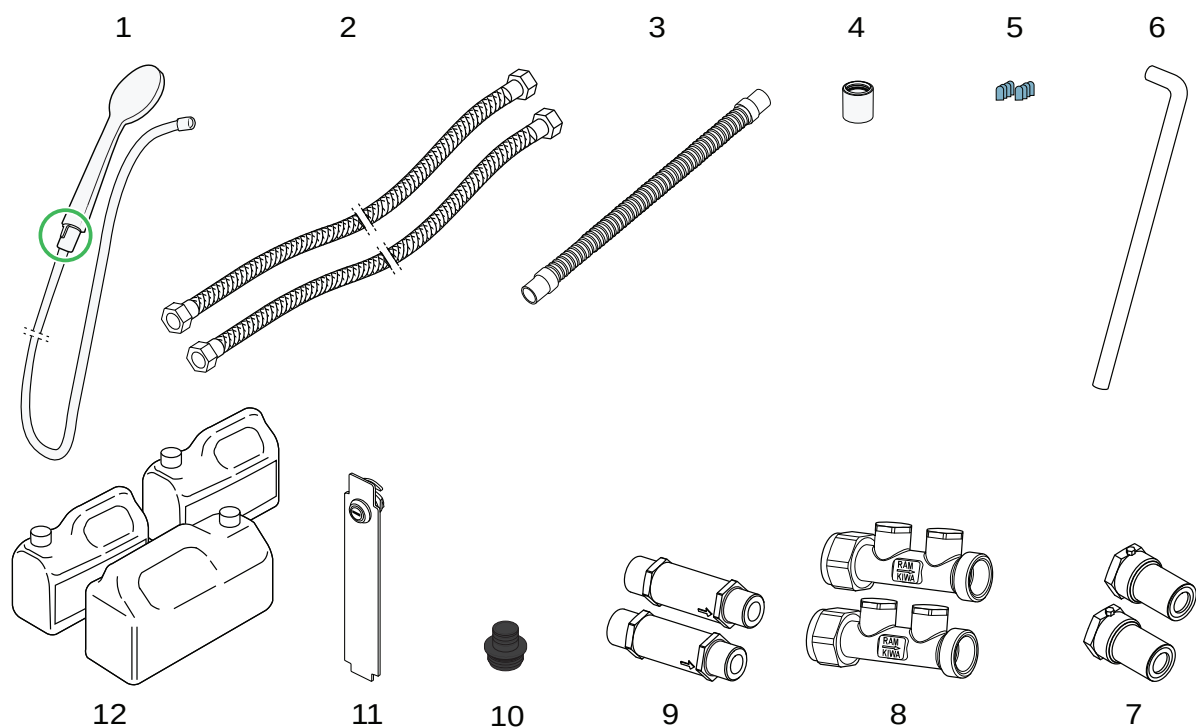
Cut the box open in the corners and rip it off from the pallet. See Figure 2.

4. Inner package: Remove the plastic bag, cut the straps and remove the blue protections.
5. Recycle the package material according to national or local regulations.

Preparations

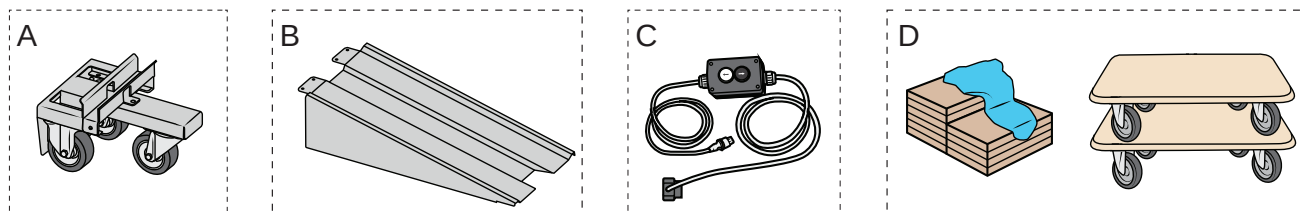
1. Inspect the product thoroughly, look for cracks and broken parts. If damage to the product is found, contact Arjo.
2. Check that the content in the box is according to section: Included in the box on page 13.
3. Check the required tools according to section: Required tools - general on page 14.

Included in the box



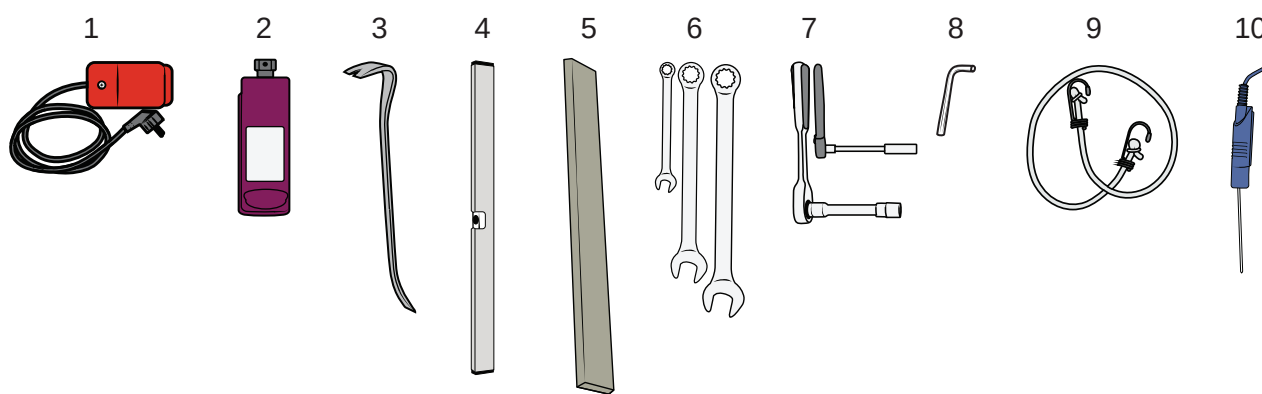
1. Shower handle with guide and hose
(for AU, the shower handle with guide and hose is provided separately)
2. Flexible hoses, two pieces
3. Drainage hose (not US/CA)
4. Drain adapter (not US/CA)
5. Silicone caps, eight pieces
6. Drain pipe (not AU)
7. Backflow preventive device, two pieces (AU only)
8. Backflow prevention device, two pieces (NL only)
9. Backflow prevention device, two pieces
(US/CA only)
10. Drain adapter (US/CA only)
11. Lock bracket with key for disinfection container, if equipped. (Key not in picture)
12. Liquids (optional)
13. Instruction for use manual (not in picture)

Required tools - general



- A. Installation kit trolley
B. Installation kit ramp
C. Installation kit connector

D. Alternative move method: 40 woodblock, 20x150x150 mm (0.8x6x6 in), 1 towel and 2 mini trolleys, 140 mm (5.5 in) high



1. Temporary mains connector
2. External battery
3. Crowbar
4. Spirit level
5. Wooden lever, 95-100 mm (3.7-3.9 in) high, >600 mm (24 in) long (feet adjustment)
6. Ring wrench size 17, 19 and 30 (mixer calibration, feet adjustment and pipe assembly)
7. Wrench kit (nuts for cover)
8. Allen key kit (removal of outer and inner covers)
9. Luggage strap (removal of covers)
10. Calibrated thermometer (water temperature calibration)

Not illustrated in picture: Standard tool kit, calibrated weight: 1 kg or 1 pound (calibration of scale)

Before initial positioning

Prior to moving the bathtub into its final position, check:

- Water service (shut off valves and backflow prevention). See chapter “Water installation” on page 70”.
- House drain system ready for hook-up. See chapter “*Drain installation*” on page 68.
- Electrical preparations done by the facility. See chapter “Electrical installation” on page 54.

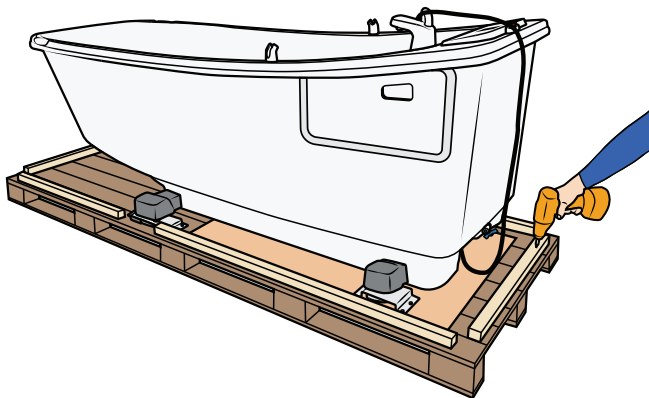


Figure 3

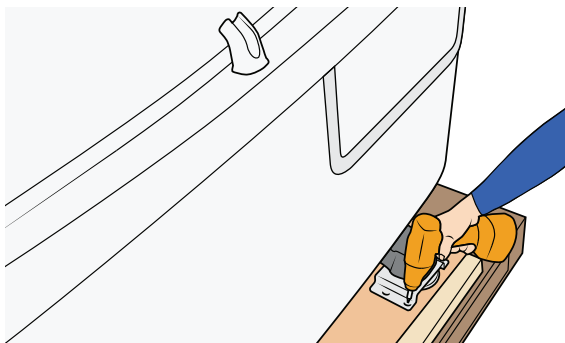


Figure 4

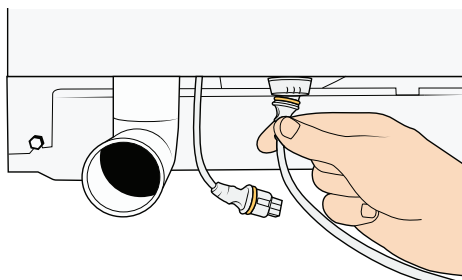


Figure 5

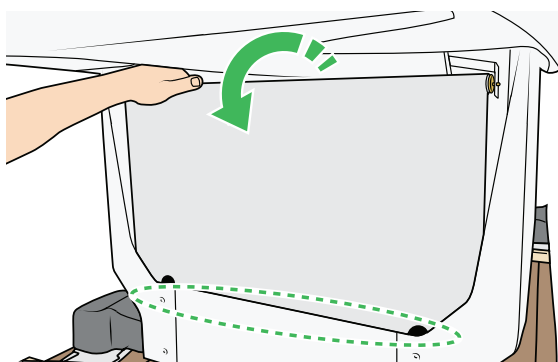


Figure 6

Move the bathtub from the pallet with Installation kits

(22 steps)

1. Check doorway and corridor width so that it is possible to transport the bathtub to the installation site. See Space requirements transport on page 11.
2. Remove wooden rib at the foot end. See Figure 3.
3. Remove all the screws on the four feet fixtures. See Figure 4.
4. Connect the external battery power to the actuator (see Figure 5) or connect the bathtub to temporary mains.
5. Raise the actuator to the highest position.
6. **Secure the curtain:** Roll down the curtain to give it some slack. Hold the curtain and unhook the rod, behind the inner cover. See Figure 6.

Roll up the curtain by hand, keep the tension all the way.

Instructions continue on the next page

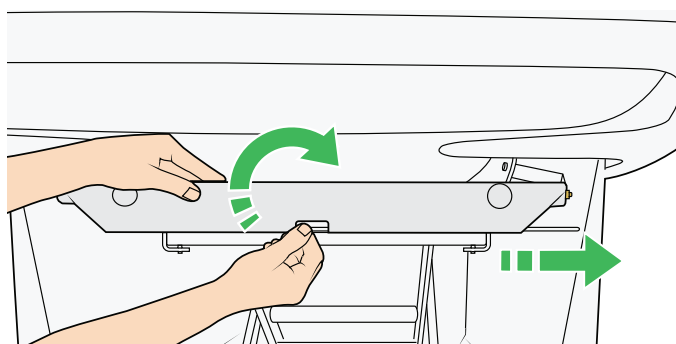


Figure 7

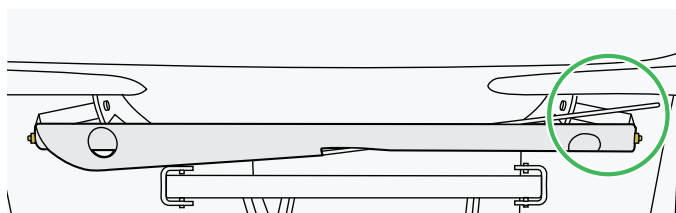


Figure 8

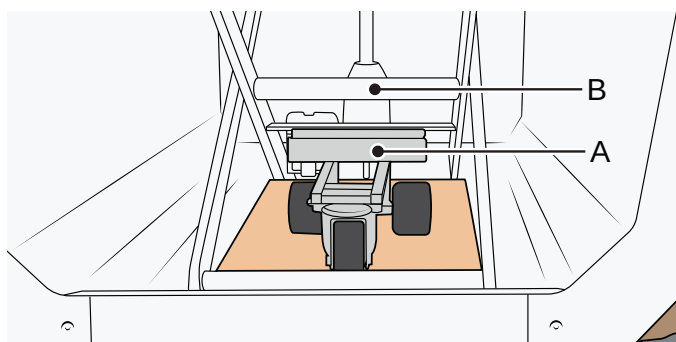


Figure 9

7.

CAUTION

To prevent damage to the laminate surface, make sure to place the trolley in the correct position and direction.

Place the trolley (A) centred underneath the centre beam (B). See Figure 9.

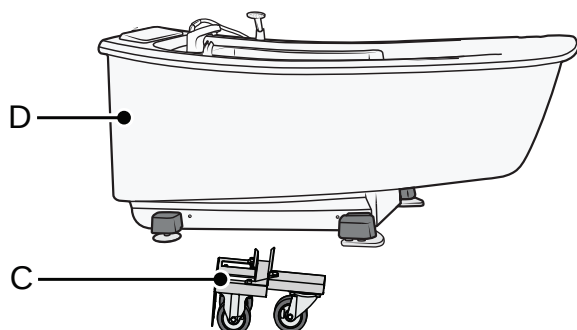


Figure 10

Make sure the wheel pair (C) on the trolley is positioned towards the heavy side of the bathtub (D). See Figure 10.

Make sure the trolley is positioned in a straight direction.

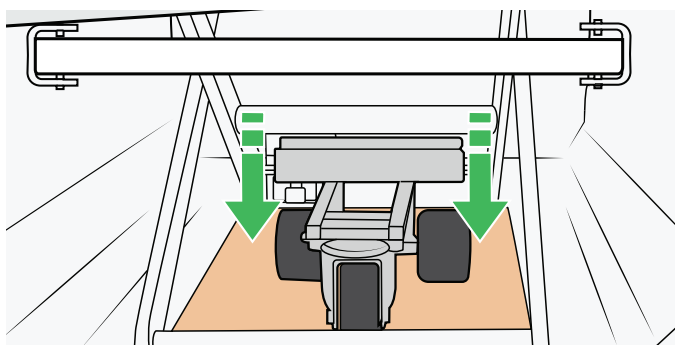


Figure 11

8. Lower the bathtub and make sure that the centre beam lands into the trolley. See Figure 11.
For the US/CA bathtub:
Place the trolley as far left as possible so that the green drainage hose has enough free space.
Make sure the drain hose is not squeezed when lowering the bathtub.

9. Lower the bathtub to the lowest position to raise the feet completely from the pallet.

10. Remove the fixtures on all four feet.

11. Disconnect the external battery from the actuator or the bathtub from temporary mains.
Reassemble the original actuator cable if battery has been used.

12. Centre the ramp at the short end of the pallet.
Secure with screws. See Figure 12.

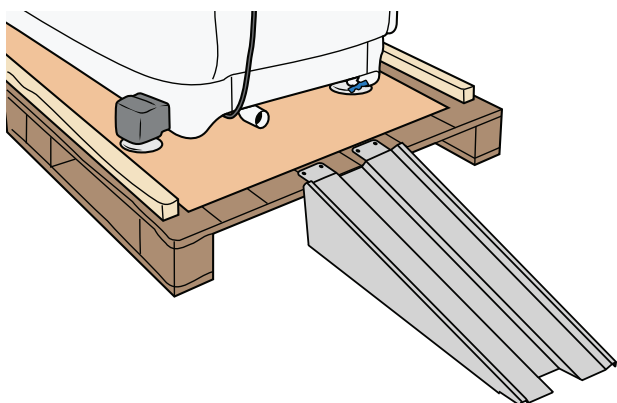


Figure 12

13. Make sure the bathtub is in a horizontal position.
Press the head end down for a standard bathtub and lift the head end up for a long bathtub. See Figure 13.

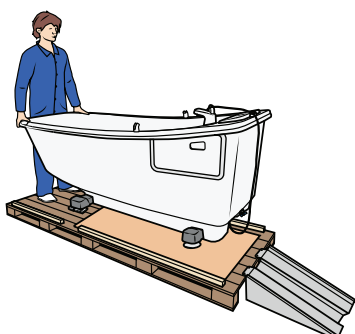


Figure 13

Instructions continue on the next page

14. Manoeuvre the bathtub carefully down from the pallet. Keep the bathtub horizontal all the way down to the floor.
15. Check the doorways and corridors so that they are free of obstacles all the way to the installation site.

16.

CAUTION

To prevent damage to the laminate surface, transport the bathtub at low speed and be extra careful when transporting over thresholds.

Carefully transport the bathtub to the installation site.
After transport over thresholds, make sure the direction of the trolley is still straight under the bathtub.

17. Position the bathtub in accordance with water connections and drain. Make sure the labels at the foot end are visible.
18. Connect the external battery power to the actuator or connect the bathtub to temporary mains.
19. Raise the actuator and remove the trolley.

20. Disconnect the external battery from the actuator (reassemble the original cable) or the bathtub from temporary mains.
21. Recycle the packaging material and pallet.
22. If the bathtub needs to be disassembled, continue with the instructions: How to disassemble and assemble the bathtub on page 23.
If not, continue with the Attach the shower hose and handle. See Attach the shower hose and handle on page 22.

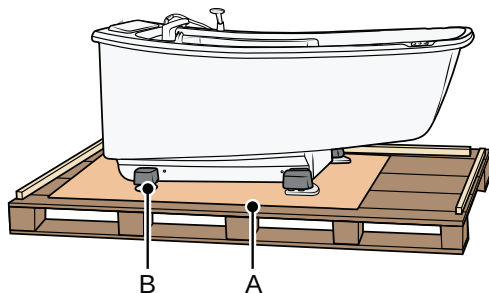


Figure 14

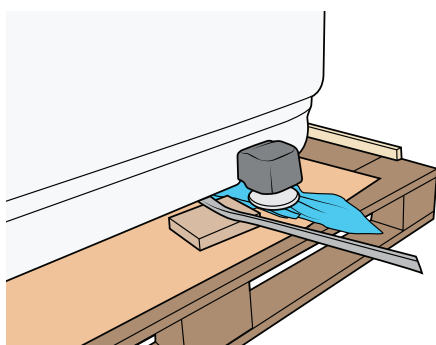


Figure 15

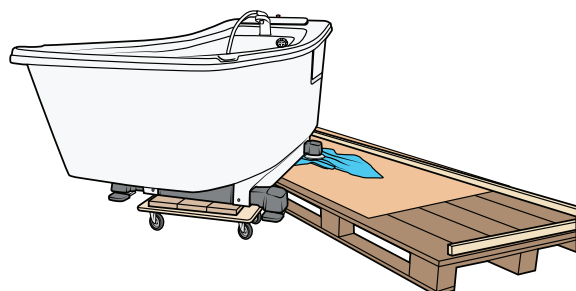


Figure 16

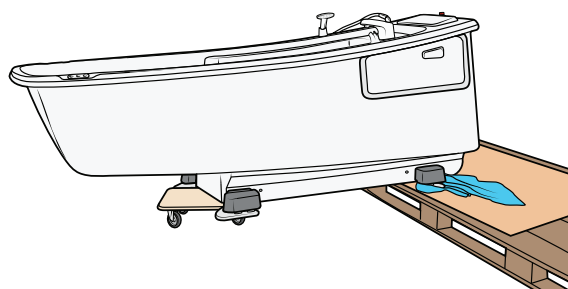


Figure 17

Move the bathtub from the pallet without Installation kits

(18 steps)

1. Remove side ribs (A) on the side where the pivot foot (B) is and where the bathtub is to slide off the pallet. See Figure 14.

2. For better sliding, lift up the other side (use a crowbar) and place a towel under the foot opposite to the pivot foot. See Figure 15.

3. Position a mini trolley next to the pallet and slide the underside of the bathtub onto the mini trolley. If needed use the woodblocks to level the mini trolley with the pallet. See Figure 16.

4. Rotate the bathtub to a 90 degree angle. See Figure 17

Instructions continue on the next page

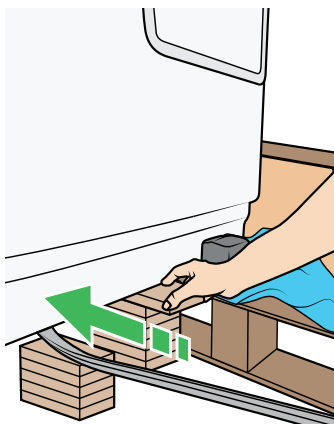


Figure 18

5. Raise the bathtub with the help of a crowbar and two stacks of woodblocks to lift it off the pallet. See Figure 18.

6. Raise until on both sides are off the pallet.

7. Remove the pallet.

8. Position the other mini trolley underneath the foot end of the bathtub.

9. Remove the woodblocks one by one until the bathtub rests on the mini trolley. See Figure 19

10. Check doorway and corridor width so that it is possible to transport the bathtub to the installation site. See Space requirements transport on page 11.

11. Transport the bathtub to the installation site and position it in accordance with water connections and drain.
Make sure the labels at the foot end are visible.

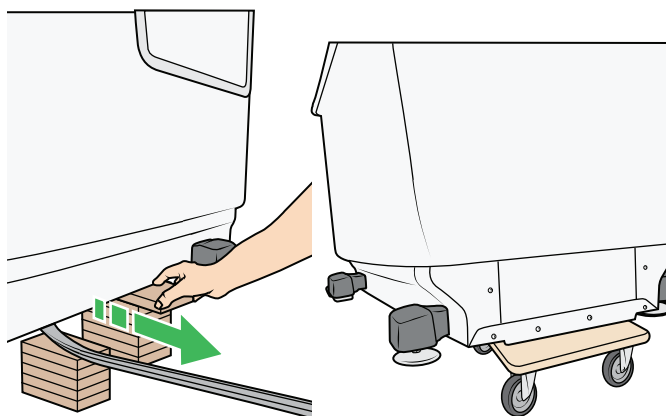


Figure 19

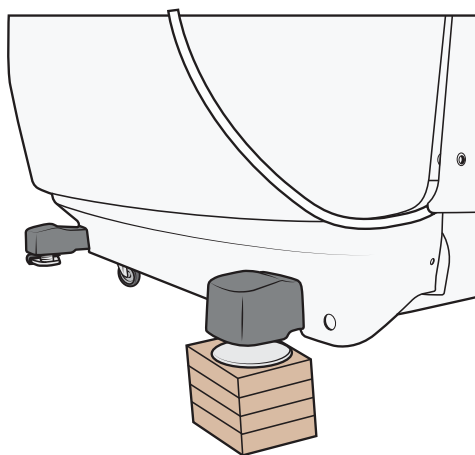


Figure 20

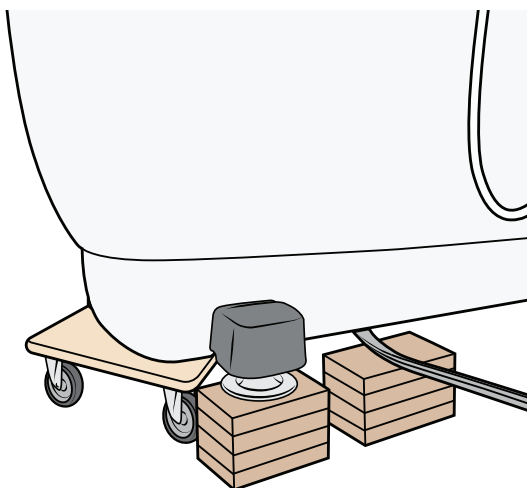


Figure 21

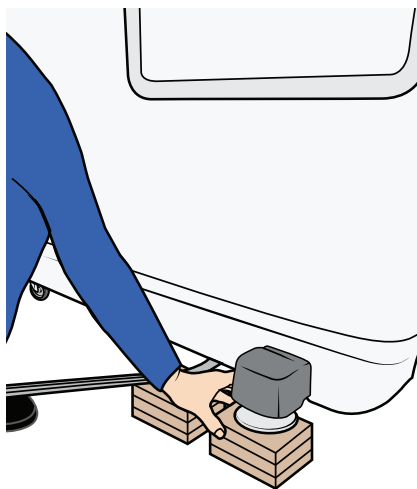


Figure 22

Lower bathtub to floor

12. Place woodblocks underneath the feet at the foot end of the bathtub. See Figure 20.

13.

CAUTION

Use the crowbar carefully. Lift underneath the scissor lift, not under the laminate.

Continue to place woodblocks underneath the feet with the help of a crowbar until the bathtub is off the mini trolley. See Figure 21.

14. Remove the mini trolley.

15. Remove the woodblocks one by one until the bathtub rest on the floor. See Figure 22.

16. Do the same procedure for the feet at the head end.

17. Recycle the packaging material and pallet.

18. If the bathtub needs to be disassembled, continue with the instructions: How to disassemble and assemble the bathtub on page 23. If not, continue with the Attach the shower hose and handle. See Attach the shower hose and handle on page 22.

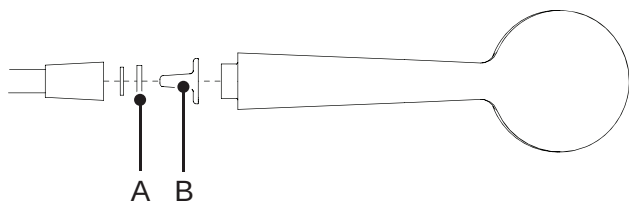


Figure 23

Attach the shower hose and handle

1. Place the gasket in the shower hose end and attach it on top of the fill spout.

For AU only:

Assemble the gasket (A) and guide (B) between the shower handle and hose. See Figure 23.

2. Place the shower handle in the holder.

3. Make sure the guide is in the correct position. See Figure 24.



Figure 24

Continue with the removal of covers. See Remove the covers on page 47.

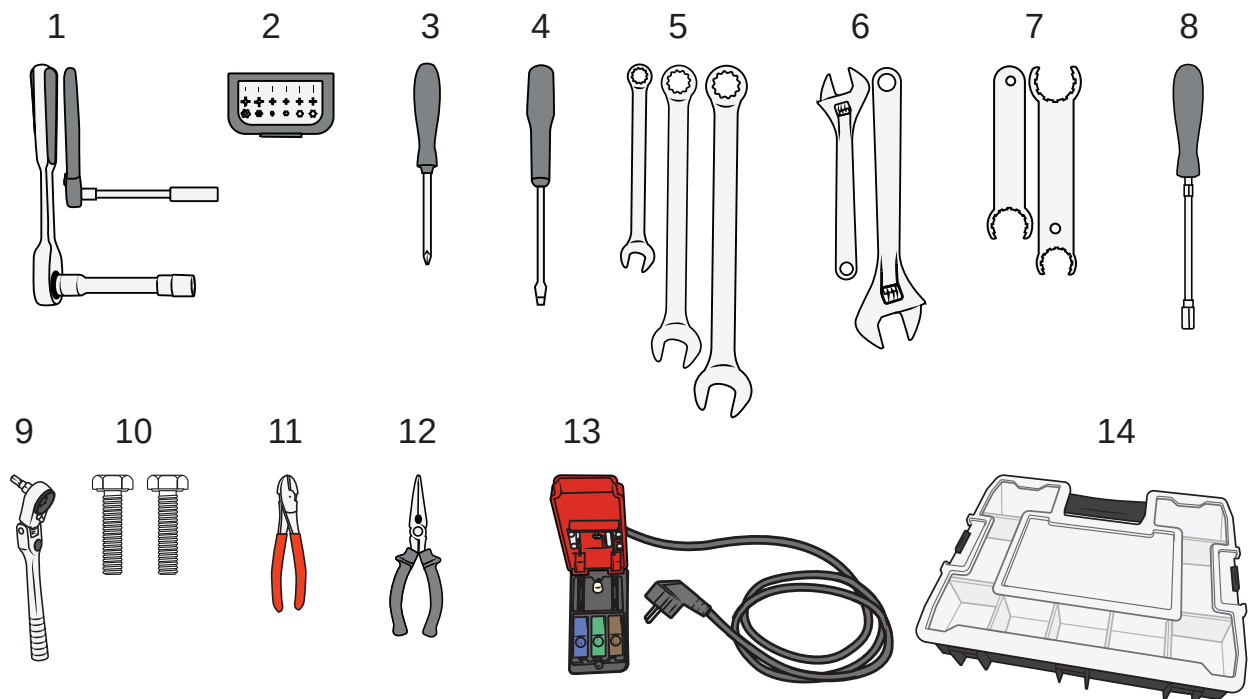
How to disassemble and assemble the bathtub

If the doorway width is less than 900 mm or the corridor width is too narrow, the bath needs to be disassembled. Arjo recommends a minimum of two persons for this activity, one installer and one service technician or two service technicians.

NOTE

Depending on what kind of door you have to pass, it may be less work to disassemble the door and door frame than to separate the bathtub into two pieces.

Required tools - disassemble and assemble the bathtub



1. Socket wrench kit
2. Bit set
3. Philips screwdriver
4. Flat screwdriver
5. Ring wrench size 17, 19 and 30
6. Big adjustable wrenches
7. Ring wrench kit
8. Flexible screwdriver extension

9. Mini wrench
10. Safety bolts (M10 x 45)
11. Cutter
12. Pliers
13. Temporary mains connector
14. Plastic box with compartments

Not illustrated in picture: Bucket and towel

Disassemble the bathtub

(39 steps)

NOTE

Take thorough photos on all cable strapping before cutting the cable ties. To make sure the correct position when assemble the bathtub.

1. Make sure the protective tape covers all feet.
2. Secure the curtain with the rod. See Figure 25.
3. Remove outer and inner covers, see Remove the covers on page 47.

NOTE

Put all screws, bolts, etc. into a plastic box with compartments, in the same order as they were removed.

4. Connect the external battery power to the actuator or connect the bathtub to temporary mains.

If connected to temporary mains, release the Emergency stop button.

5. Raise the bathtub to the maximum height.
6. Place the safety bolts in the locking holes on both sides to secure the position of the scissor lift. See Figure 26.
7. If connected to temporary mains, press down the Emergency stop button.
8. Disconnect the external battery or temporary mains.

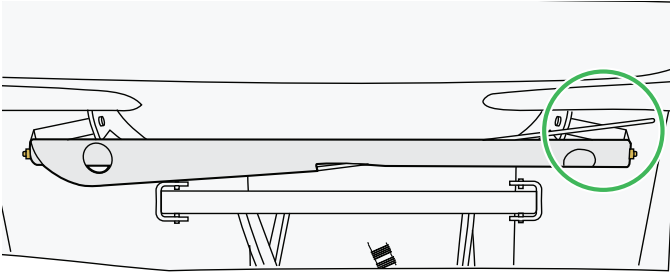


Figure 25

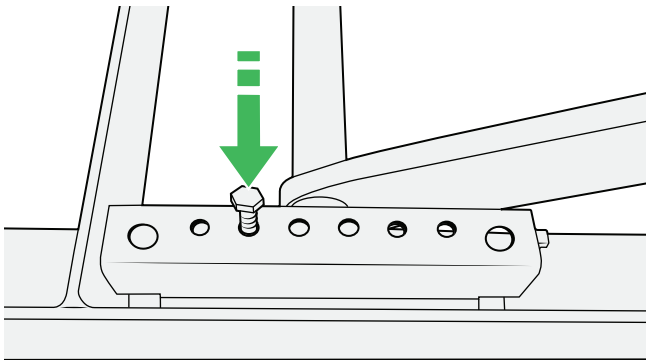


Figure 26

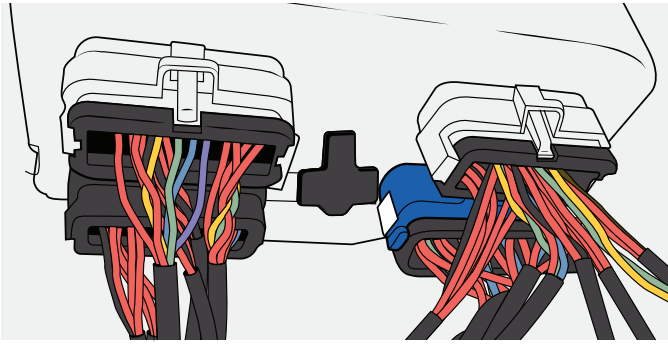


Figure 27

9. Disconnect all the connectors (four at the most) from the Main panel box. Use a small flat screwdriver for easier removal. See Figure 27.

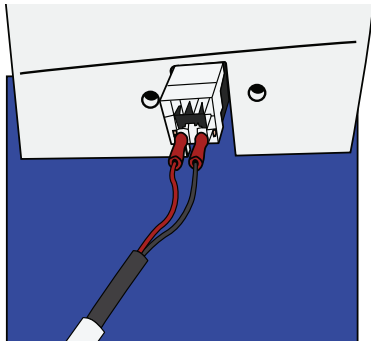


Figure 28

10. Cut the cable ties under the rim and disconnect the Emergency stop. See Figure 28.

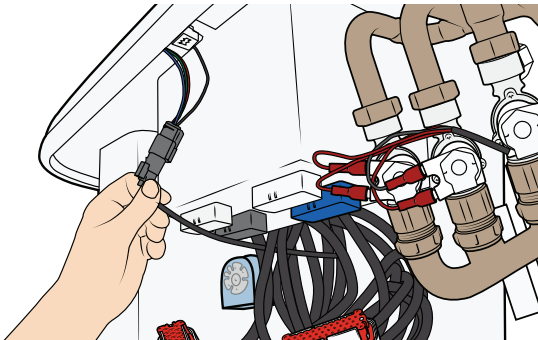


Figure 29

11. If equipped with Ambient light, disconnect the Ambient light connector. See Figure 29.

If equipped with integrated disinfection system, follow step 12 - 17

12. Remove the Hose guide (three screws). See Figure 30.

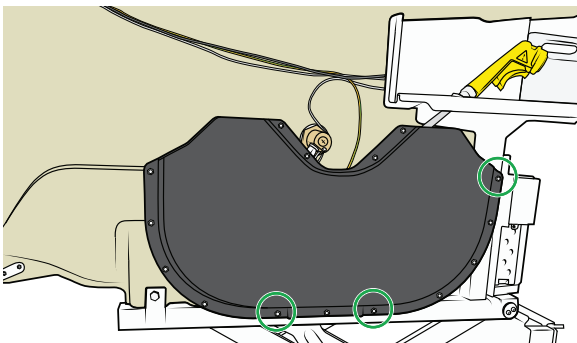


Figure 30

Instructions continue on the next page

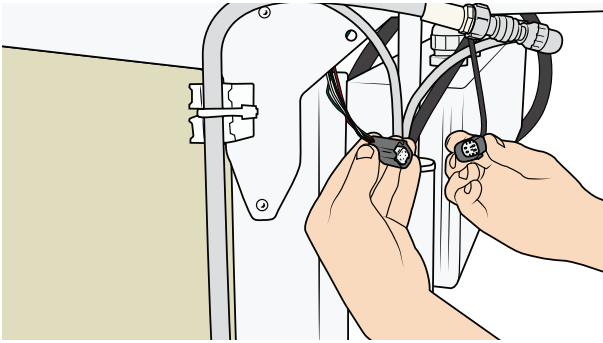


Figure 31

13. Cut the cable ties and disconnect the Scale connector. See Figure 31.

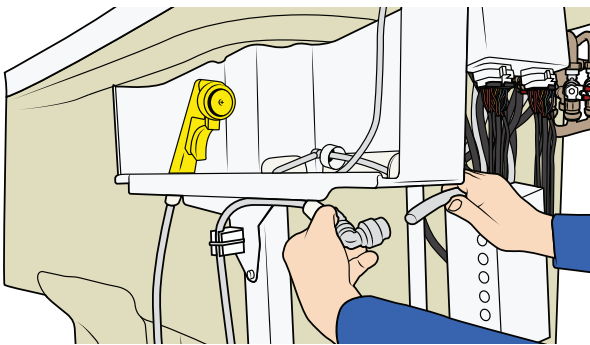


Figure 32

14. Disconnect the push fitting. See Figure 32.

NOTE

May leak water or mixed disinfectant. Be prepared with a bucket and towel.

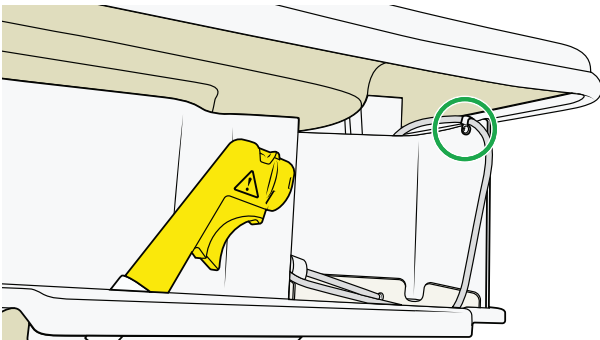


Figure 33

15. Loosen the nut and pull off the silicone hose clamp. Use a pen and mark out the position on the hose. See Figure 33.

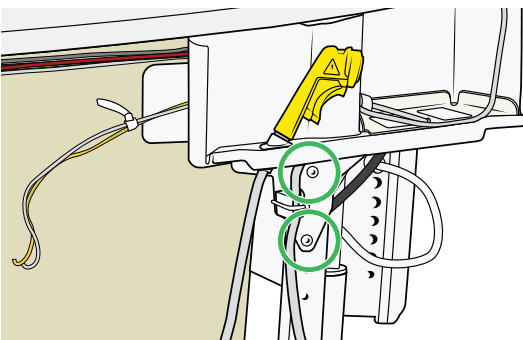


Figure 34

16. Remove the two screws holding the disinfection compartment. See Figure 34.

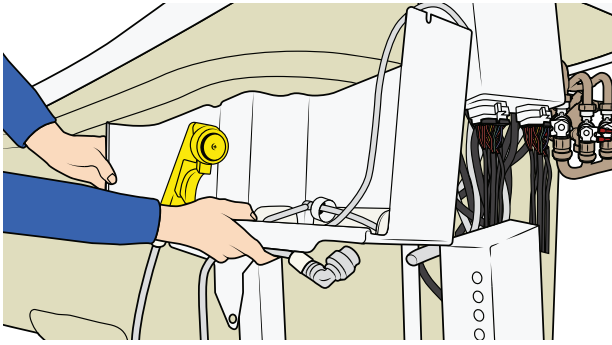


Figure 35

17. Lift off the disinfection compartment together with the disinfection hose. See Figure 35.

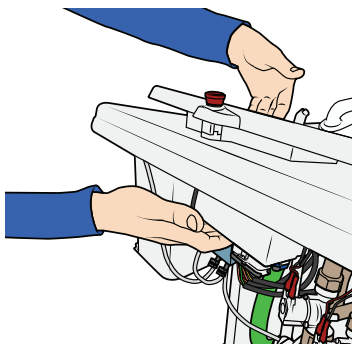


Figure 36

18. Unscrew the Main panel (eight screws underneath the laminate).
19. Carefully lift and remove the Main panel unit (panel and PCBA box). Support under the box during lift. See Figure 36.

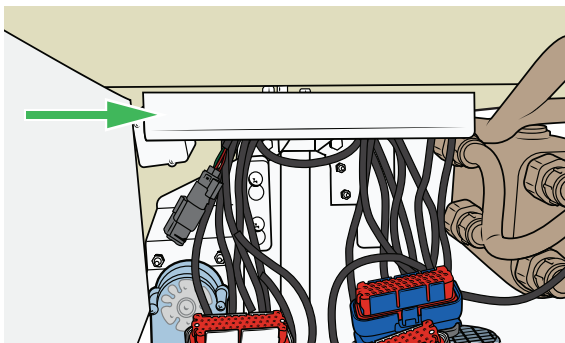


Figure 37

20. Unhook the cable tray to access the cables. See Figure 37.

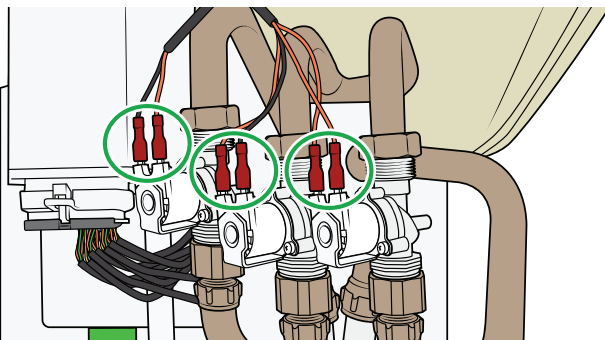


Figure 38

21. Disconnect the six electrical connections to the fill solenoid valves on the pipe connections. Remember their positions. See Figure 36.

Instructions continue on the next page

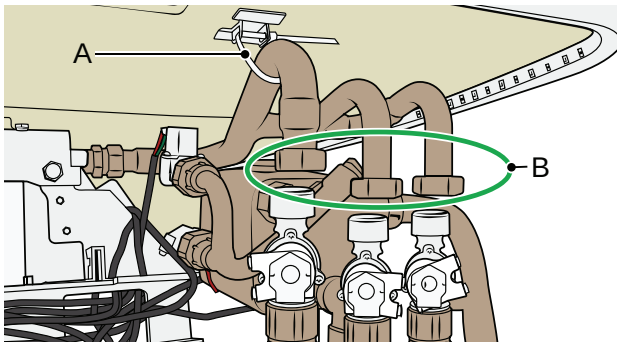


Figure 39

22. Fasten the pipe connections loosely with a cable tie (A).

Loosen the upper nuts, three pipes (B) on the mixer. Tighten the cable tie (A). See Figure 39.

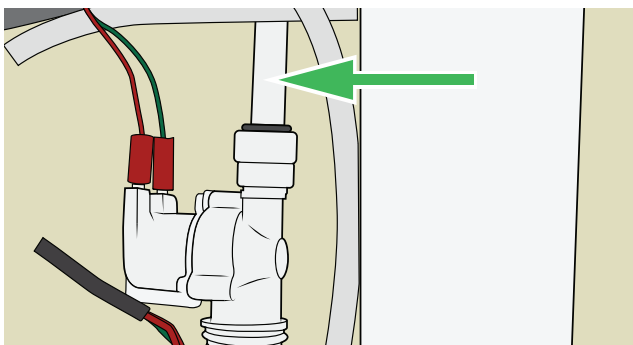


Figure 40

23. Disconnect the PEX pipe to shower function. See Figure 40.

NOTE

If the bathtub is equipped with Hydromassage, temporary remove the inverter box for better access.
Be aware of that the inverter box is heavy.

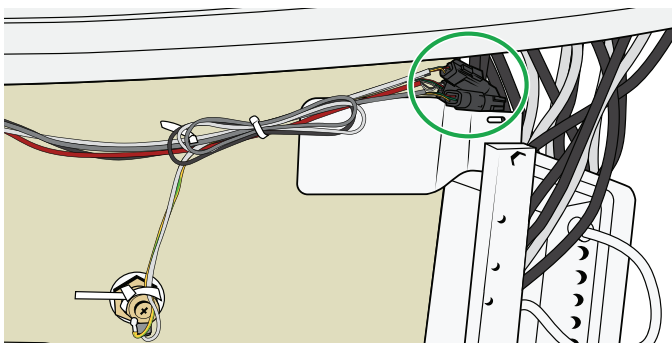


Figure 41

24. On the right side, cut the cables tie and disconnect the Side panel connector. If equipped with Underwater lights, disconnect the two LED light quick connectors. See Figure 41.

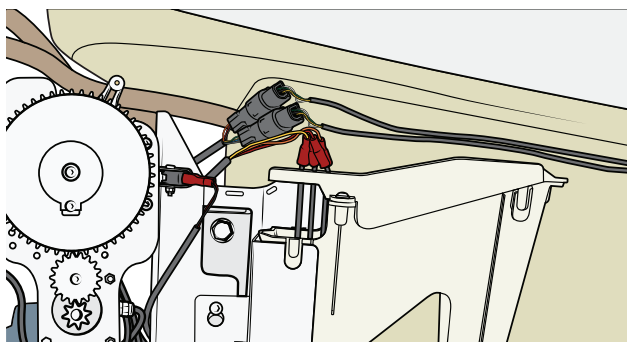


Figure 42

25. On the left side, disconnect the Side panel connector. If equipped with Underwater lights, disconnect the two LED light quick connectors. See Figure 42.

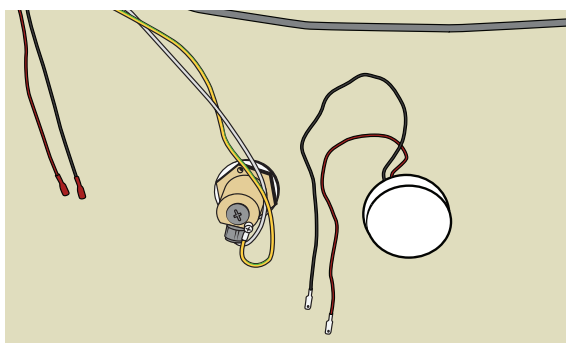


Figure 43

26. If equipped with Music, disconnect the speaker on the left and right side. See Figure 43.

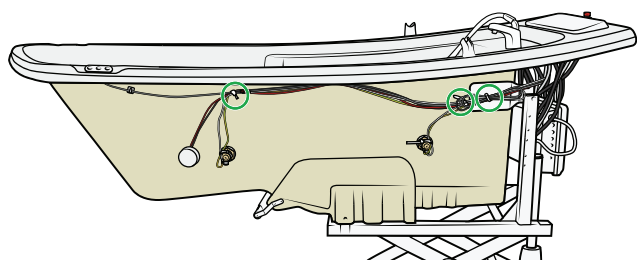


Figure 44

27. Cut the cable ties needed. See Figure 44 and Figure 45.

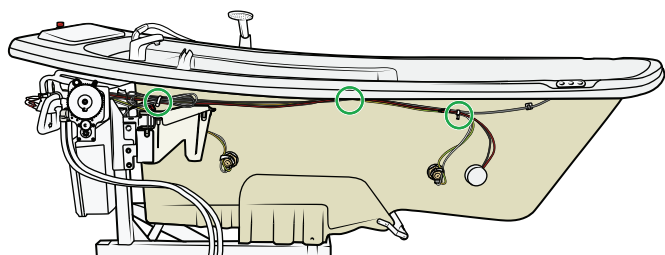


Figure 45

Instructions continue on the next page

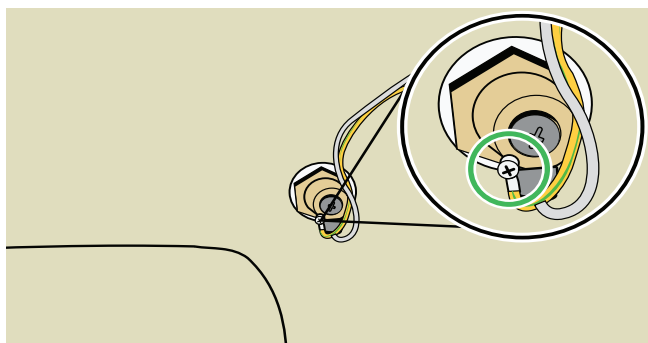


Figure 46

28. If equipped with Underwater lights, cut the cable ties and disconnect the four earth grounding cables to the LED lights, two on each side . See Figure 46.

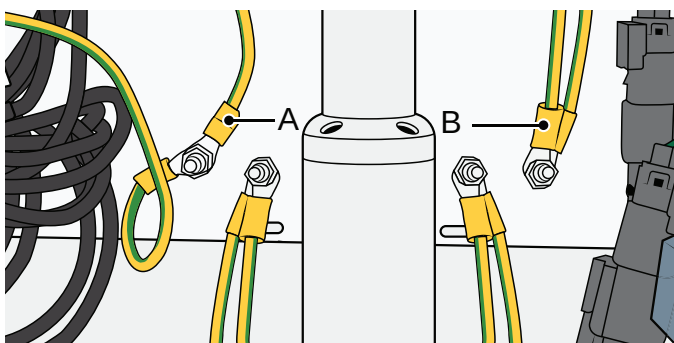


Figure 47

29. Disconnect the bottom sensor earth cable (A) and fill spout earth cable (B). See Figure 47. Pull away the cables so they do not get stuck during the assembly.

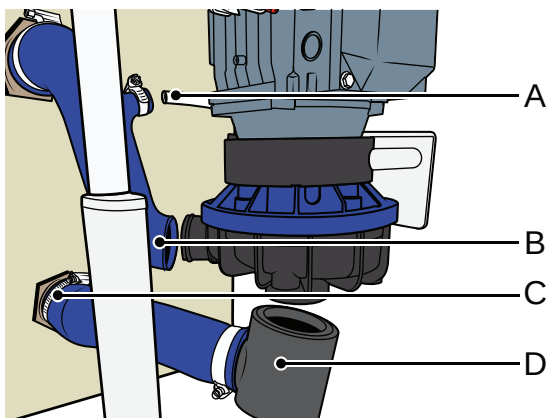


Figure 48

If equipped with Hydromassage

1. See Figure 48.
 - Loosen the clamp and disconnect the white disinfection pipe (A).
 - Loosen the clamp and pull off the hose end (B).
 - Loosen the clamp (C), pull down and remove the elbow with hose (D).

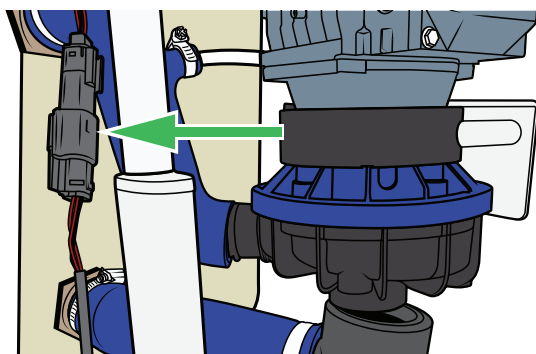


Figure 49

2. Disconnect the inlet sensor connector (detection of Hydromassage inlet strainer). See Figure 49.

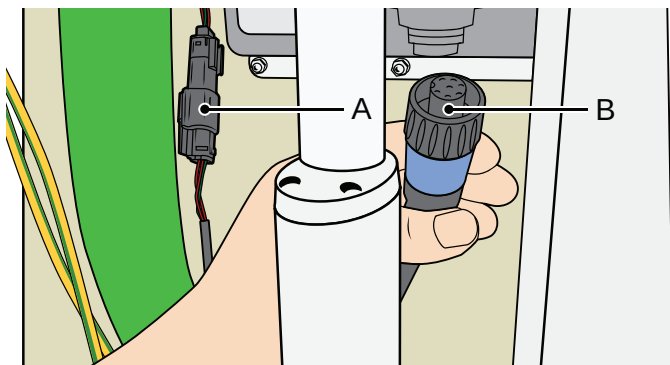


Figure 50

If equipped with Hydrosound

1. Disconnect the inlet sensor connector (detection of Hydrosound guard) (A) and the transducer connector (B). See Figure 50.

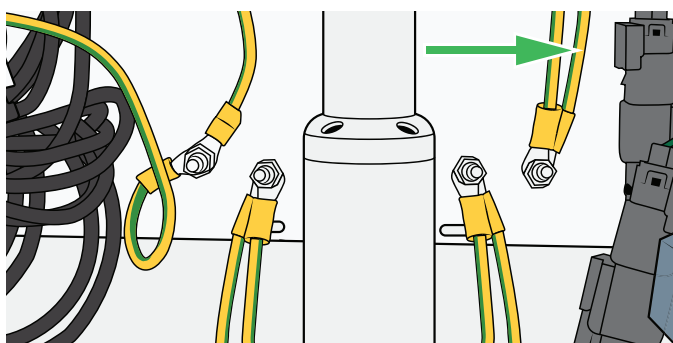


Figure 51

2. Disconnect the transducer earth cable. See Figure 51.

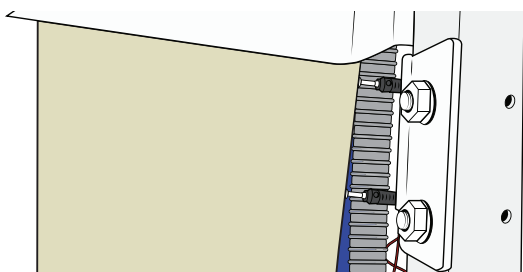


Figure 52

30. Cut the cable ties and disconnect the two banana connectors (level sensors) on the chassis, right side. See Figure 52.

NOTE

Remember the order of the connectors, orange at the top, red at the bottom

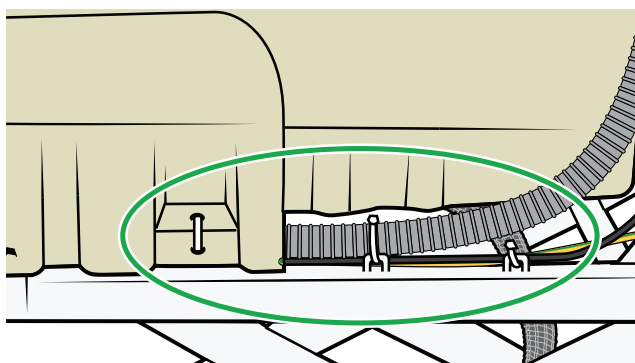
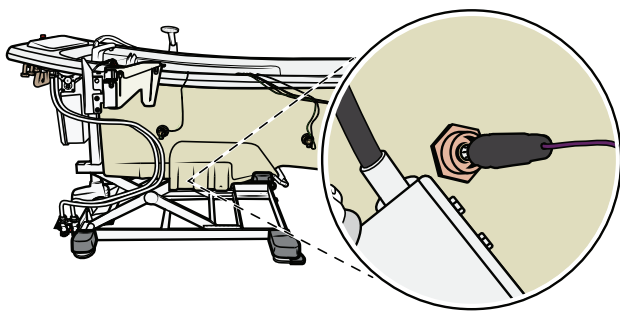


Figure 53

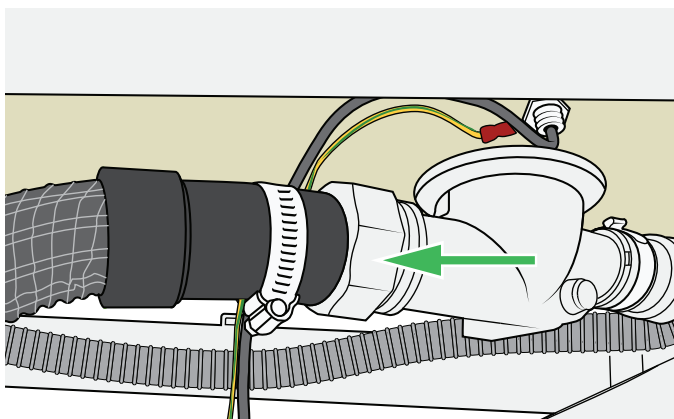
31. Cut the three cables ties that holds the overflow drainage. See Figure 53.

Instructions continue on the next page



32. Remove the banana connector to the level sensor at the bottom of the bathtub. See Figure 54.

Figure 54



33. Disconnect drainage hose. See Figure 55.

Figure 55

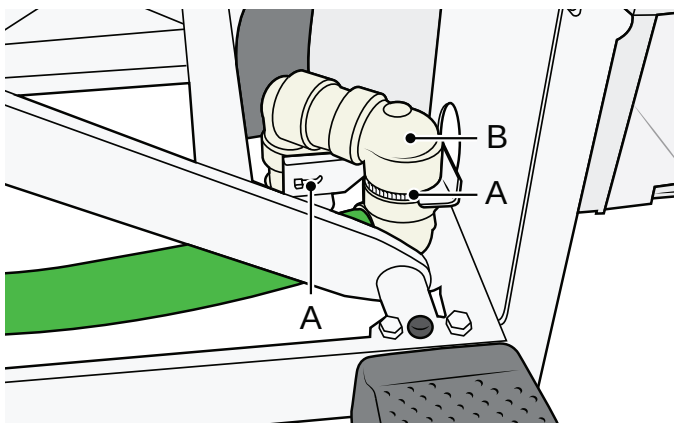


Figure 56

For US/CA drainage:

1. Cut the two cable ties (A).
2. Remove the water trap (B). See Figure 56.

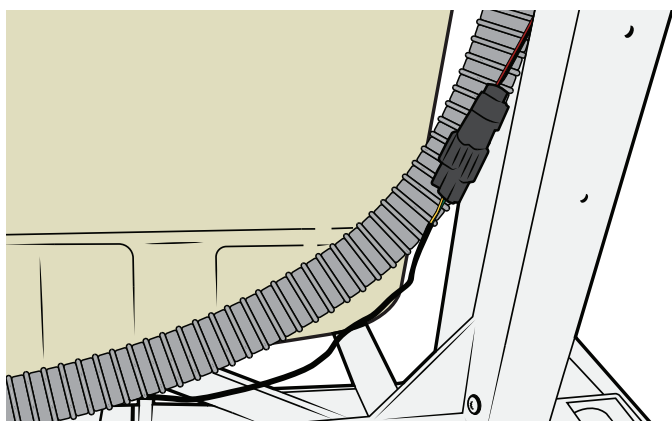


Figure 57

34. Cut the cable ties and disconnect the connector for the temp sensor. See Figure 57.

35. To prevent damage, attach all loose cables (panels and speakers) inside the tub with tape. To have the cables out of the way, position the cables on the right side over the mixer. Position the cables on the left side to the side.

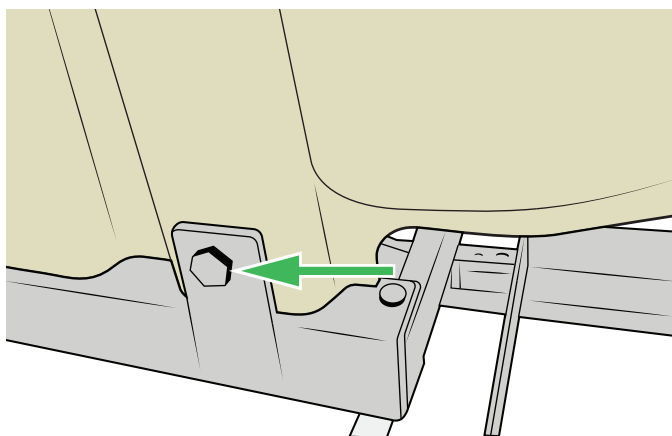


Figure 58

36. Remove the four bolts (two on each side) to separate the bathtub from the chassis. See Figure 58 and Figure 59.

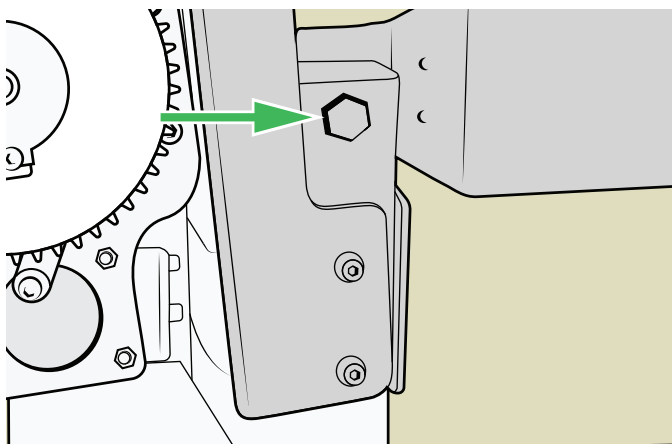
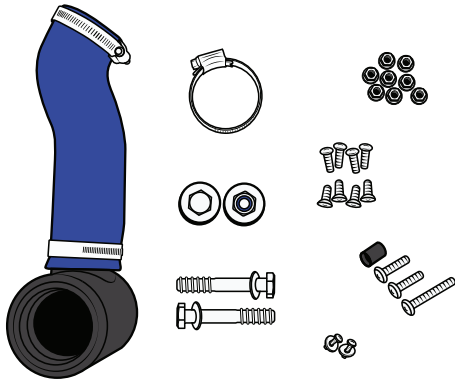


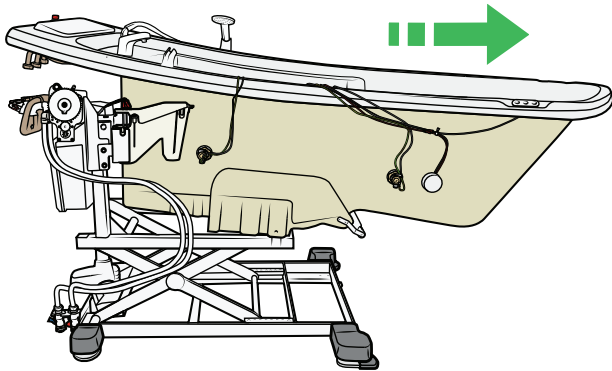
Figure 59

Instructions continue on the next page



37. Make sure to collect all items in the plastic box.
See Figure 60.

Figure 60



38.

CAUTION

Make sure not to lift the tub too high.
If equipped with Hydromassage, the Hall sensor can be ripped out and damaged.
Also pay attention not to hit the solenoids into the mixer.

Slightly lift and slide the tub off the chassis. See Figure 61.

Figure 61

39. Do not place the tub directly on the floor. Place it on the packaging material to protect the sensors, drain and curtain.

Assemble the bathtub

(45 steps)

1. Position the chassis at the installation site, in accordance with water connections and drain. Make sure the bathtub is positioned so the labels are visible.
2. To have the cables out of the way, position the cables on the right side over the mixer. Position the cables on the left side to the side.

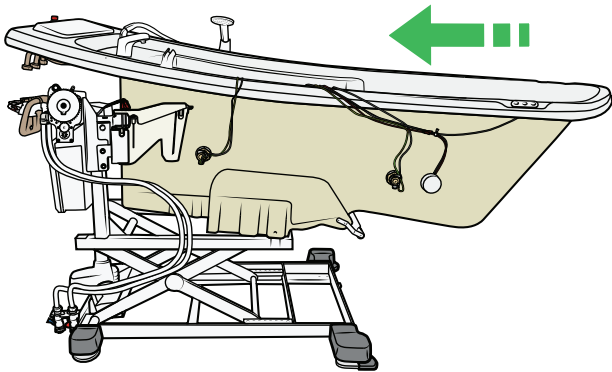


Figure 62

3. **CAUTION**
Make sure not to damage the mixer, the cables or the Hall sensor (if equipped with Hydromassage) when positioning the tub.

Lift and slide the tub carefully on to the chassis. See Figure 62.

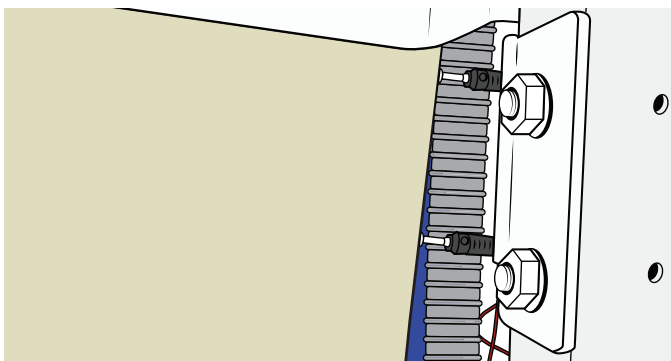
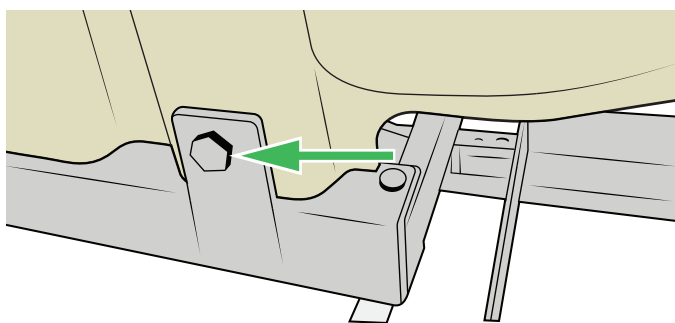


Figure 63

Before the tub is in the final position, connect the two banana connectors to the level sensors on the chassis right side. Red cable at the bottom. See Figure 63.

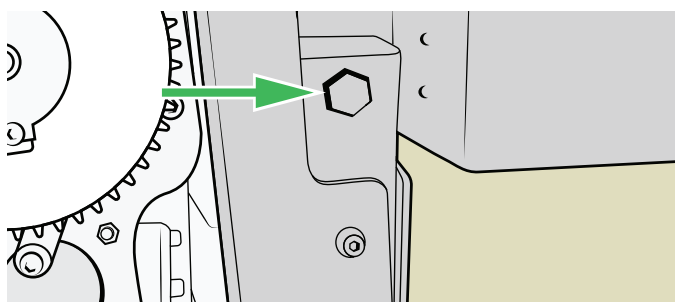
4. Slide the tub carefully in to final position.

Instructions continue on the next page



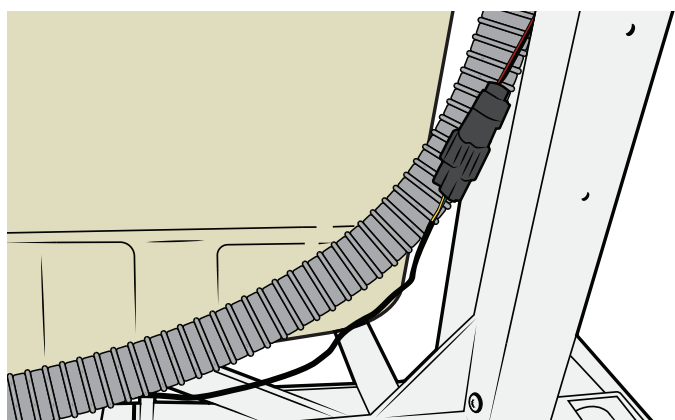
5. To assemble the chassis, tighten the four bolts (two on each side) to 45 Nm. See Figure 64 and Figure 65.

Figure 64



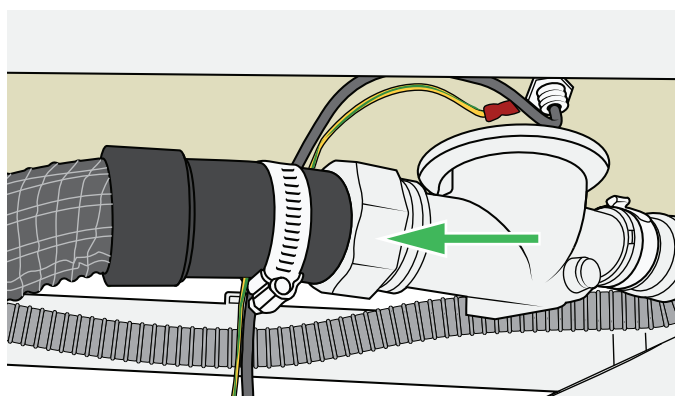
6. Remove the tape from the cables inside the tub.

Figure 65



7. Connect the temperature sensor connector. See Figure 66.

Figure 66



8. Connect the drainage hose. See Figure 67.

Figure 67

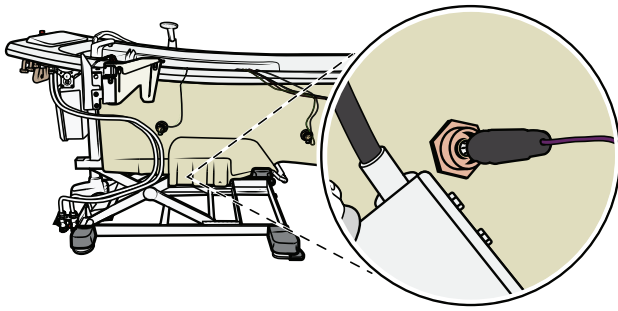


Figure 68

9. Connect the banana connector to the level sensor at the bottom of the bathtub. See Figure 68.

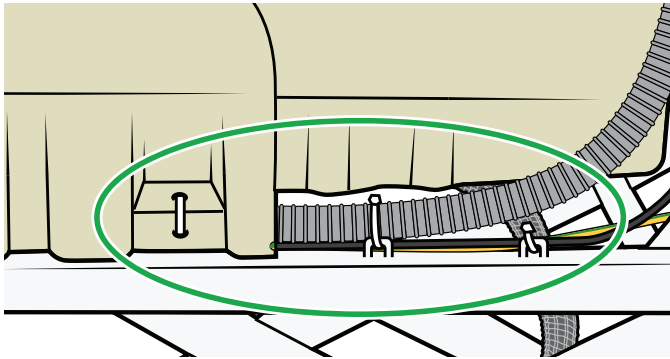


Figure 69

10. Attach three cable ties. See Figure 69.

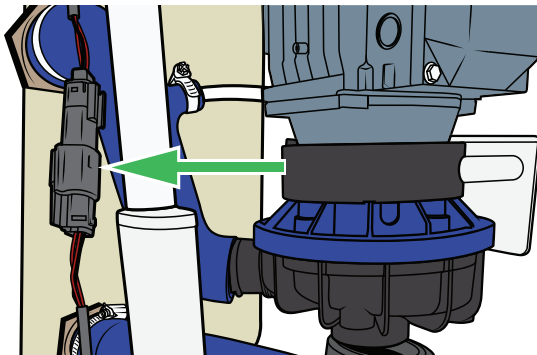


Figure 70

If equipped with Hydromassage

1. Connect the inlet sensor connector (detection of Hydromassage inlet strainer). See Figure 70.

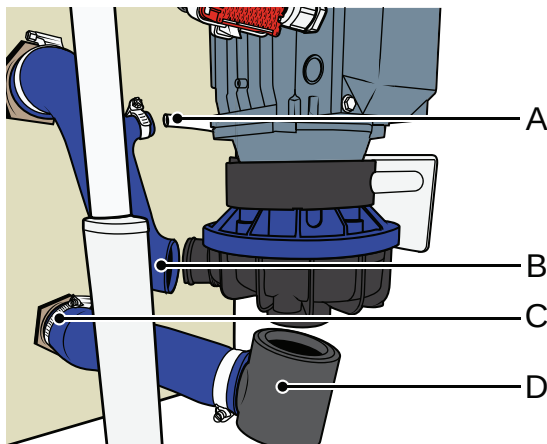


Figure 71

2. See Figure 71.
 - Attach the hose and push back the elbow (D).
 - Tighten the clamp (C).
 - Put back the hose end and tighten the clamp (B).
 - Connect the white disinfection pipe (A) and tighten the clamp.

Instructions continue on the next page

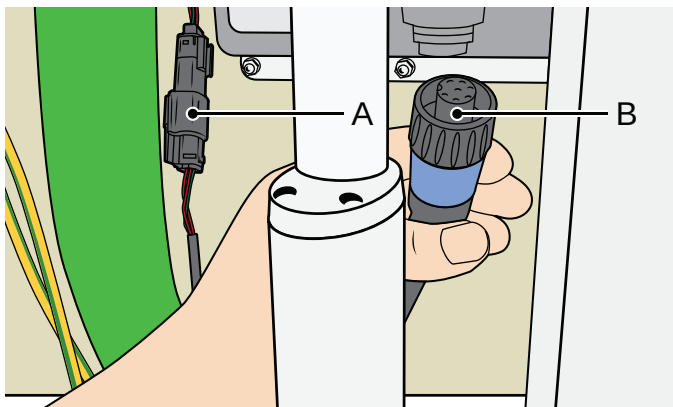
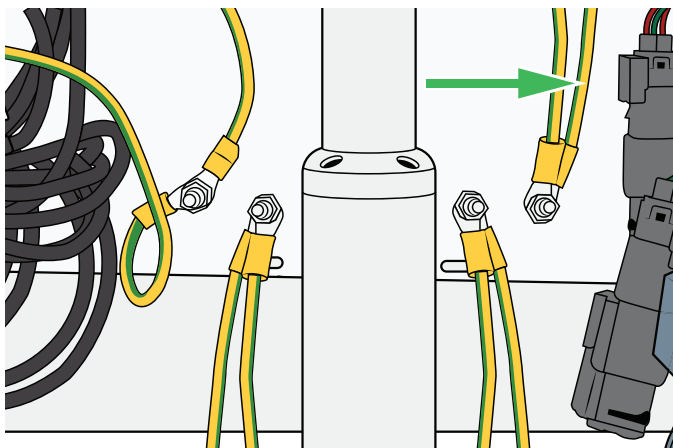


Figure 72

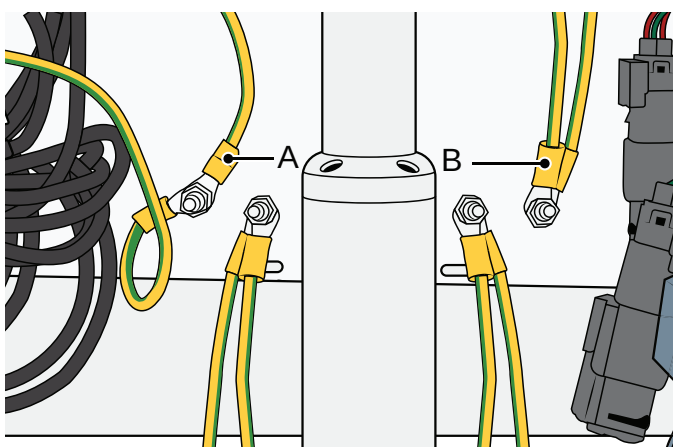
If equipped with Hydrosound

1. Connect the inlet sensor connector (detection of Hydrosound guard) (A) and the transducer connector (B). See Figure 72.



2. Attach the transducer earth cable. See Figure 73.

Figure 73



11. Attach the bottom sensor earth cable (A) and the fill pipe earth cable (B). See Figure 74.

Figure 74

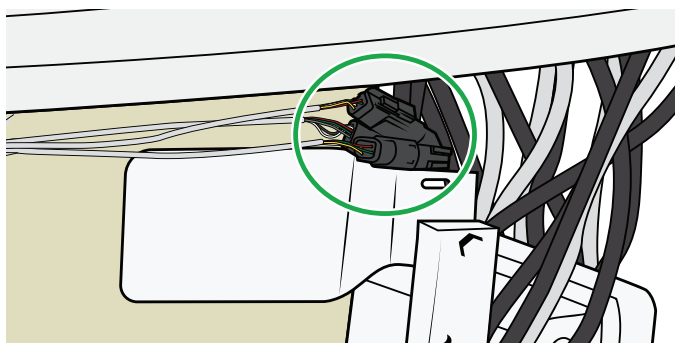


Figure 75

12. On the right side, connect the Side panel connector. If equipped with Underwater lights, connect the two LED light quick connections. See Figure 75.
Bundle the cables together with a cable tie.

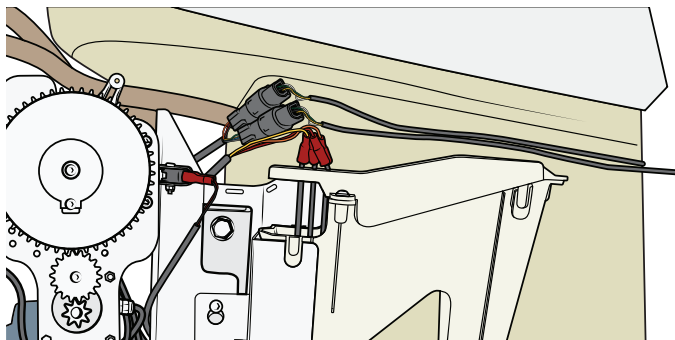


Figure 76

13. On the left side, connect the Side panel connector. If equipped with Underwater lights, connect the two LED light quick connections. See Figure 76.

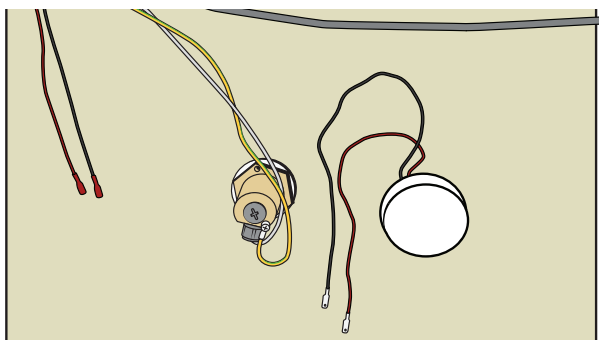


Figure 77

14. If equipped with Music, connect the speakers on the left and right side. See Figure 77.

Instructions continue on the next page

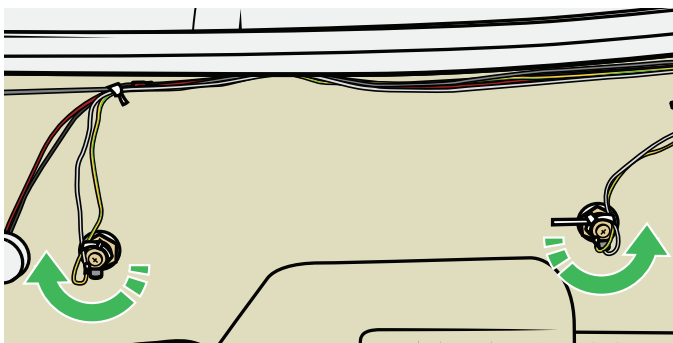


Figure 78

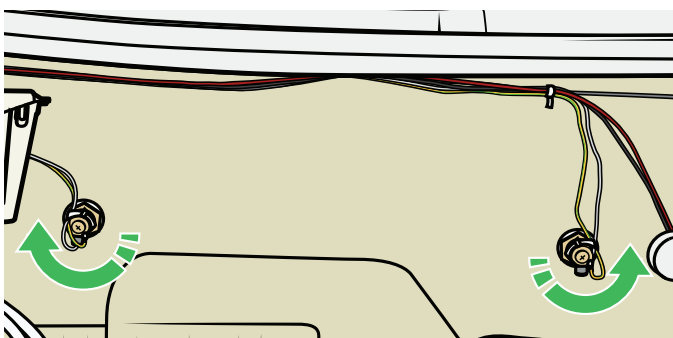


Figure 79

15. If equipped with Underwater lights, connect and strap the LED light and earth cables correctly around the LED modules.
Right side, see Figure 78.
Left side, see Figure 79.
This prevents the cables from being ripped off when re-installing the outer cover.

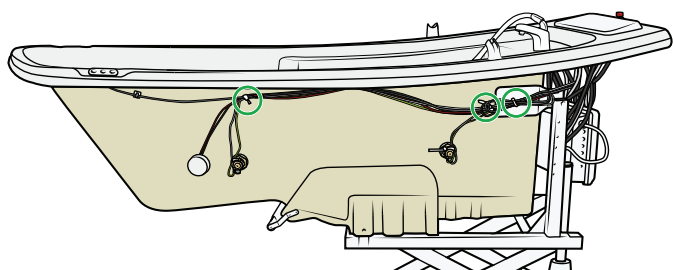


Figure 80

16. Attach cable ties on the left and right side. See Figure 80.

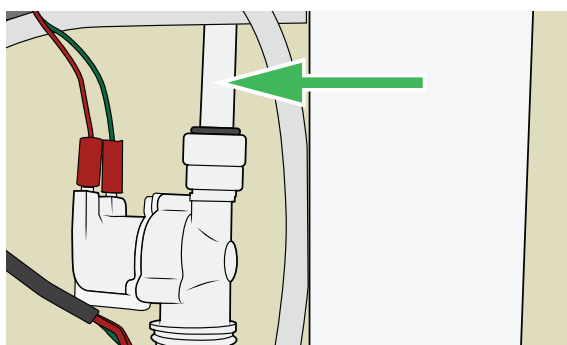


Figure 81

17. Attach the PEX pipe to shower function. See Figure 81.

NOTE

Attach the inverter box if it has been removed. Be aware of that the inverter box is heavy.

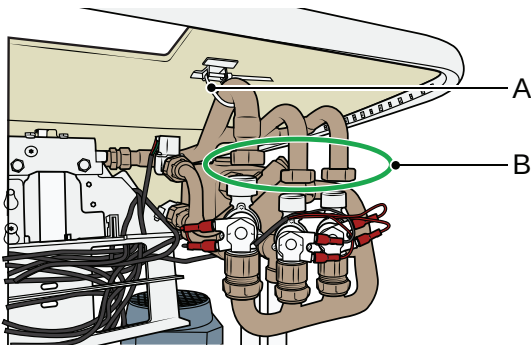


Figure 82

18. Remove the cable tie carefully (A). Attach the pipe connections to the mixer. Tighten the three nuts (B) on the mixer. See Figure 82.

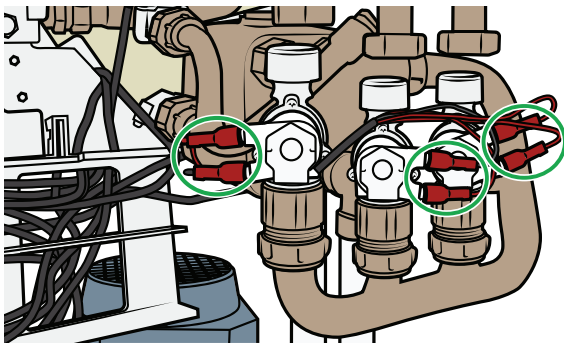


Figure 83

19. Connect the six electrical connections to the solenoid valves on the pipe connection. Make sure they are in the right positions. See Figure 83.

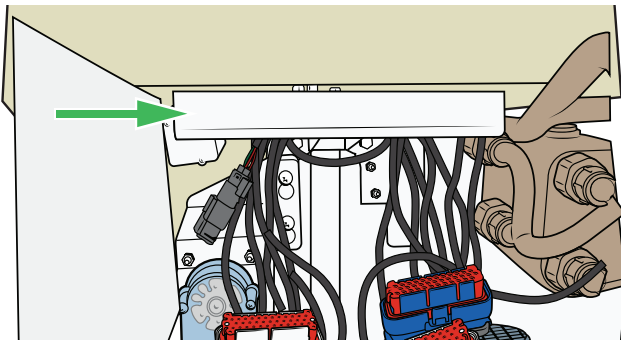


Figure 84

20. Put back the cable tray. See Figure 84.

21. **NOTE**
Prepare and put in a cable tie trough the laminate to strap the Ambient light connector and Emergency stop cables in step 38.

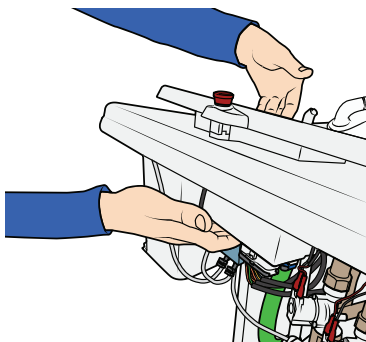


Figure 85

22. Carefully put back the Main panel unit (panel and PCBA box). Support under the box underneath. See Figure 85.

23. Carefully attach the Main panel unit to the laminate. (Attach with the eight screws.)

Instructions continue on the next page

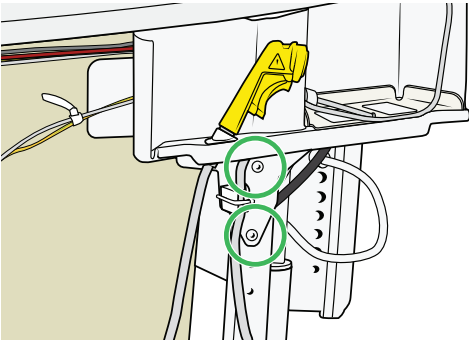


Figure 86

If equipped with integrated disinfection system, follow step 28 - 35

24. Lift on the disinfection compartment together with the disinfection hose.

25. Attach the two screws holding the disinfection compartment. See Figure 86.

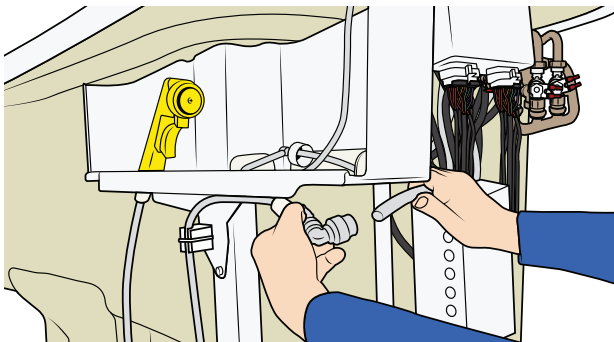


Figure 87

26. Attach the push fitting. See Figure 87.

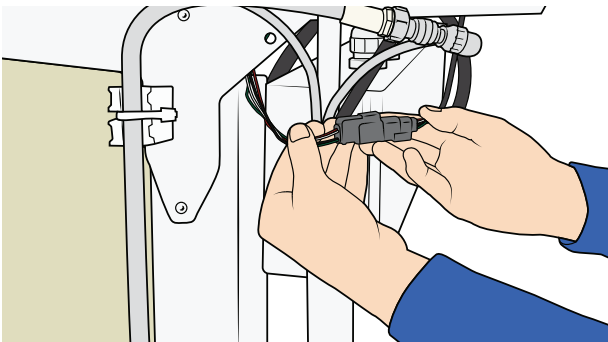


Figure 88

27. Carefully connect the scale connector. See Figure 88.

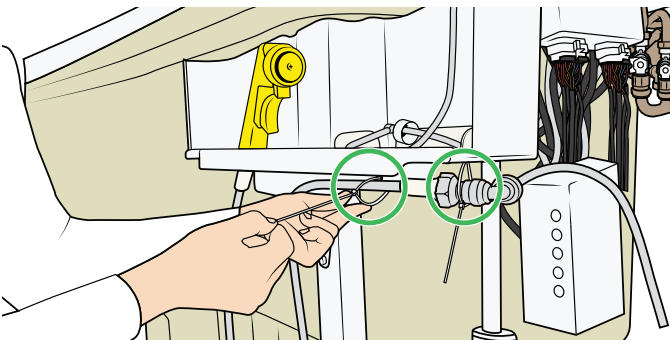


Figure 89

28. Secure the disinfection hose and the scale connector (aligned with the cable) with two cable ties. See Figure 89.

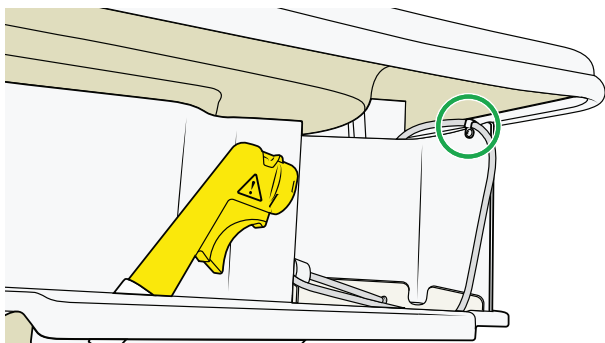


Figure 90

29. Attach the silicone hose clamp.
The length from clamp to bottle connection should be 480 ± 10 mm (18.9 ± 0.4 in). See Figure 90.

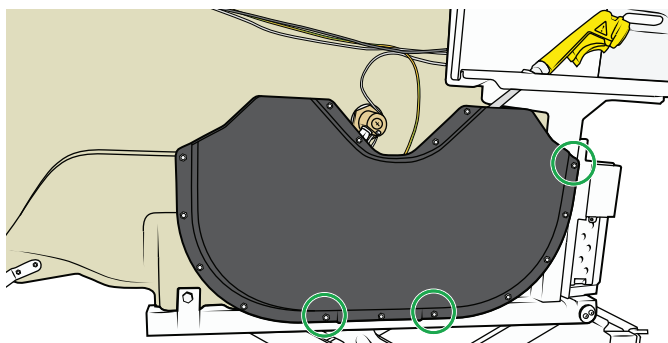


Figure 91

30. Put the disinfection hose in the Hose guide.

31. Attach the Hose guide with the three screws. See Figure 91.

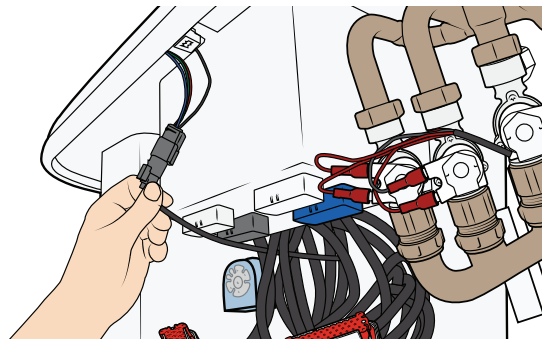


Figure 92

32. If equipped with Ambient light, connect the Ambient light connector. See Figure 92.

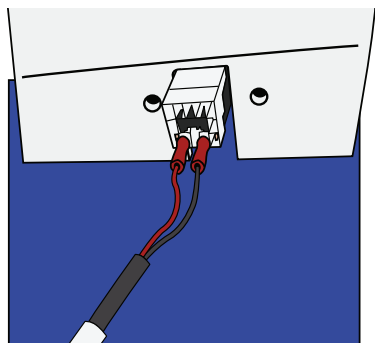


Figure 93

33. Connect the Emergency stop cables. Make sure they are in the middle positions. See Figure 93.

Instructions continue on the next page

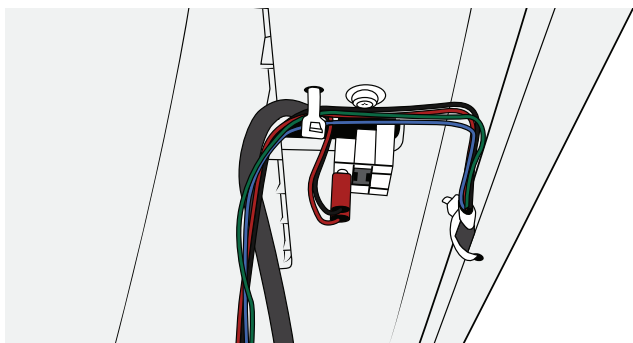


Figure 94

34. Position the Ambient light connector and Emergency stop cables in the same position as before. Strap them with cable ties under the rim. See Figure 94.

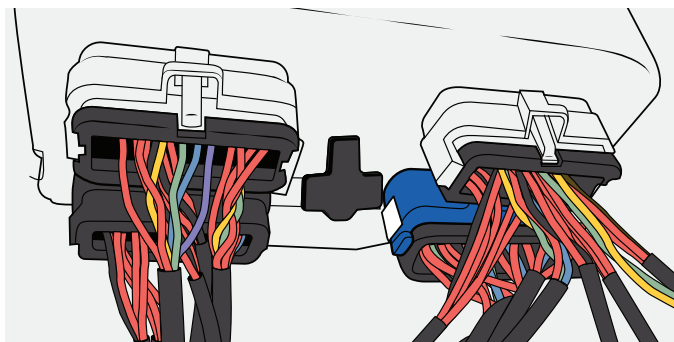


Figure 95

35. Connect all the connectors to the Main box panel. See Figure 95.

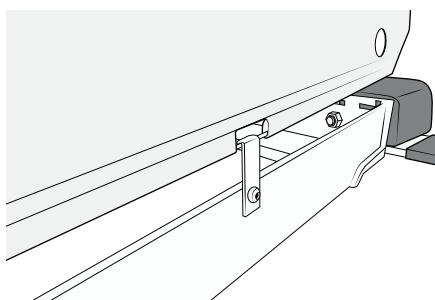


Figure 96

36. Put back the Roller curtain rod. See Figure 96.

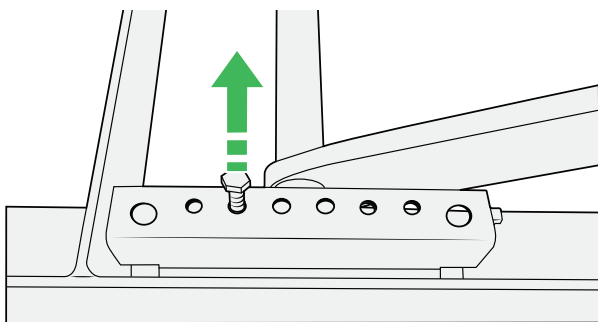


Figure 97

37. If the Roller curtain has lost its tension, tighten it by rolling it 10 times before attaching it to the frame.

38. Continue with the rest of the installation.

- Adjust the feet on page 50
- Electrical installation on page 54,
- Drain installation on page 68
- Water installation on page 70.

39. Remove the safety bolt (on both sides). See Figure 97.

40. Activate the Emergency stop button.

41. Attach the shower hose and handle, if not already done.

42. Configure the bathtub according to Service tool, see Service tool on page 59.

43. Adjust the bathtub 10 cm (0.4 in) above the floor.

44. Lower the bathtub to the lowest position.

45. Continue with the rest of the installation:

- Adjust the feet on page 50,
- Electrical installation on page 54,
- Configuration with Service tool on page 59
- Drain installation on page 68,
- Water installation on page 70,
- Attach the covers on page 84 and
- Finish installation on page 87

Doorway width equal to 900 mm

To ease the transfer through a doorway equal to 900 mm, the bathtub width can be slightly narrowed. To enable the turning radius, following corridor widths are required:

Standard bathtub: 1.8 m (71 in)

Long bathtub: 2 m (79 in)

Narrow the bathtub

1. Place a strap around the widest part of the bathtub. See Figure 98.

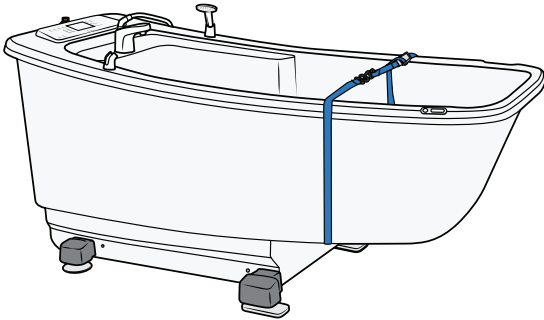


Figure 98

2. Tighten the strap slightly, 1-5 mm (0.04-0.2 in).

Remove the covers

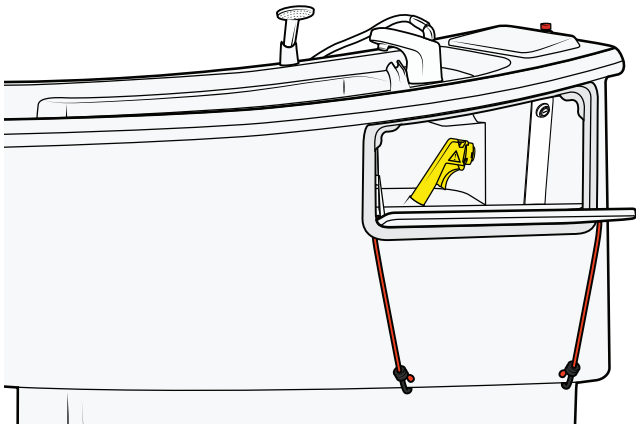


Figure 99

Preparations

CAUTION

Use caution to avoid scratching the covers when using a power tool to remove the screws.

1. Make sure the bathtub is slightly raised from bottom.
2. Strap the disinfection hatch open to avoid scratching the inner covers, if equipped. See Figure 99.
3. Make sure the keys are removed from the disinfection lock.
4. Place the shower head in the bathtub.
5. Press the Emergency stop.

Outer covers

14 steps

1. At the foot end under the rim, remove the two Allen screws (A) and two nuts (B), holding the outer service cover. See Figure 100.
2. Remove the outer service cover and disconnect the Hot water flush key assembly (if equipped).
3. Connect the additional Hot Water Flush key assembly.

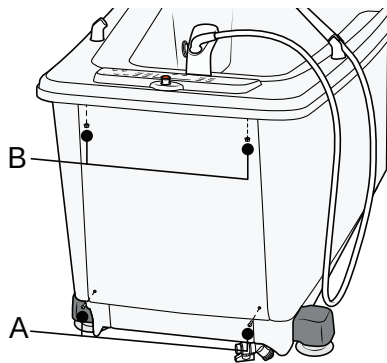


Figure 100

Instructions continue on the next page

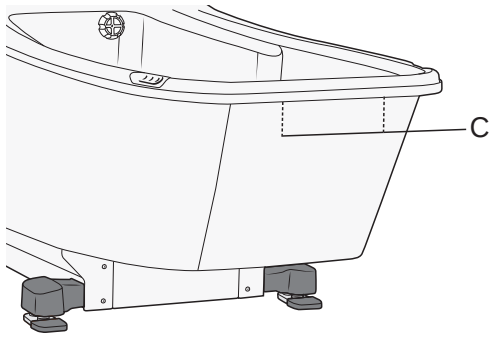


Figure 101

4. At the head end, loosen the two nuts (C) holding the outer cover. Do not remove them. See Figure 101.

5. Put a towel on the bathtub feet to protect from scratches.

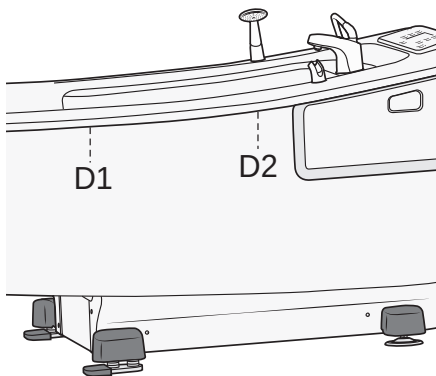


Figure 102

6. At the disinfection side under the rim, remove nut (D1) and then nut (D2), holding the outer cover. See Figure 102.

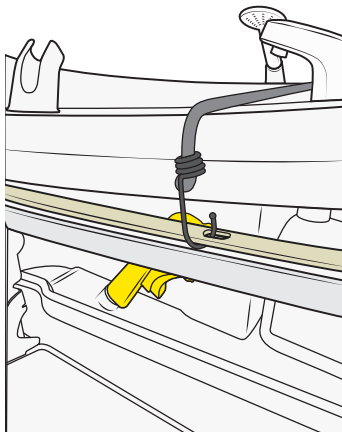


Figure 103

7. Secure the outer cover with a strap in the hole above the disinfectant compartment to prevent it from falling down. Use a 760 mm (30 in) long strap. See Figure 103.

8. On the other side, remove the two nuts the same way, starting with the one closest to the head end, and let it hang from the strap.

9. Go back to the head end, remove the two nuts (C), holding the outer cover. See Figure 99.

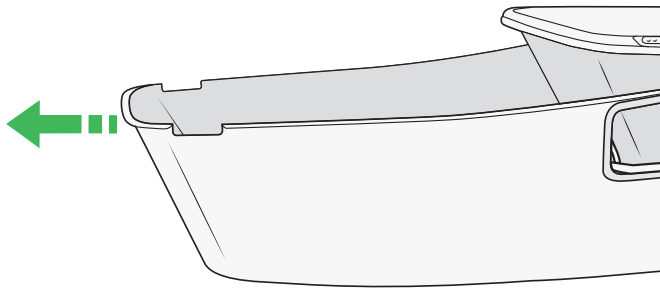


Figure 104

10. Let the cover rest on the bathtub feet (at the head end) and from the strap.

11. Unhook and remove the strap.

12. Raise the bathtub slightly, to clear the rim from the cover.

13. Remove the outer cover carefully by lifting up at the head end and pulling it towards you. See Figure 104.

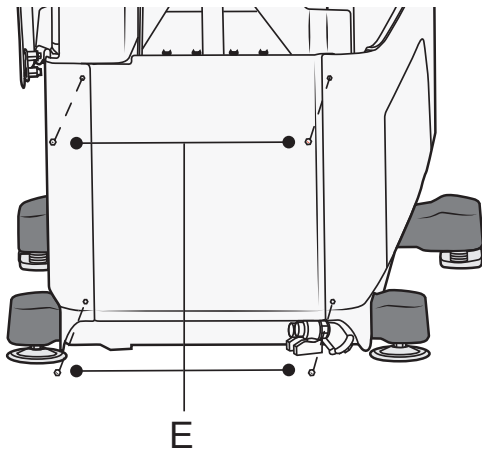


Figure 105

14. Place the outer cover carefully on the floor next to the bathtub.

Inner service covers

1. Raise the bathtub to mid level. At the foot end, remove the four screws holding the inner service cover (E). See Figure 105.

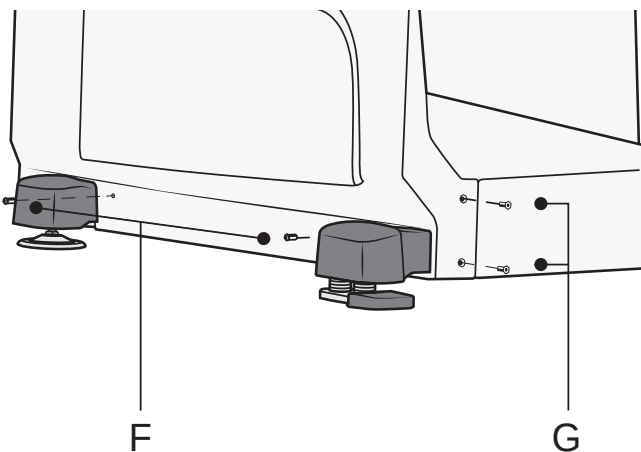


Figure 106

2. Remove the inner side panels by removing the two screws (F) on the sides and the two screws (G) at the head end, then lift straight up. See Figure 106.

Adjust the feet

In order to achieve a levelled bathtub, adjust the height of the bathtub feet.

1. Place the bathtub in the correct position according to all requirements.
Make sure there is a minimum of 150 mm (6 in) between the foot end and the wall. Between the long side and the wall it is recommended to have 800 mm (32 in).
2. Use a spirit-level to calculate the fall slope of the floor.

NOTE

Always start by adjusting the back feet to level the bath. If the bath is not completely levelled after the adjustment of the back feet you might need to add or remove washers on one or both of the front feet.

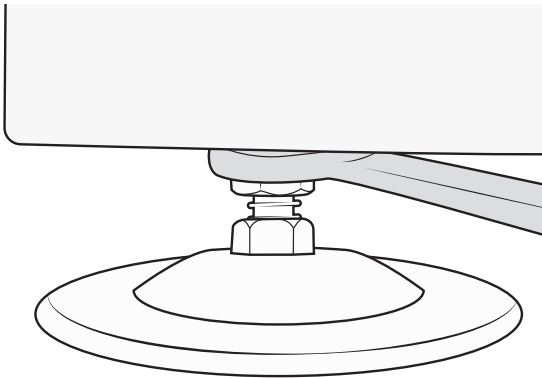


Figure 107

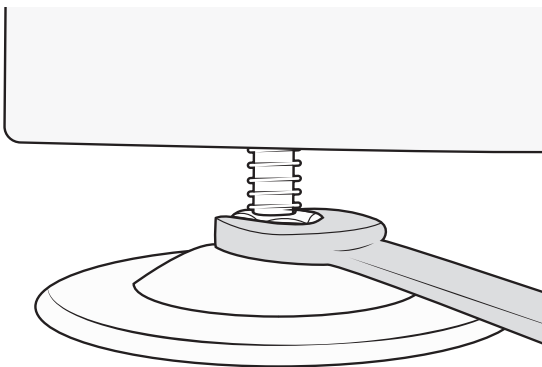


Figure 108

Adjust the back feet

1. Loosen the counter nut on the feet at the foot end. See Figure 107.
2. To adjust the height, turn the lower nut.
Lower the foot - turn counter-clockwise
Heighten the foot - turn clockwise. See Figure 108.

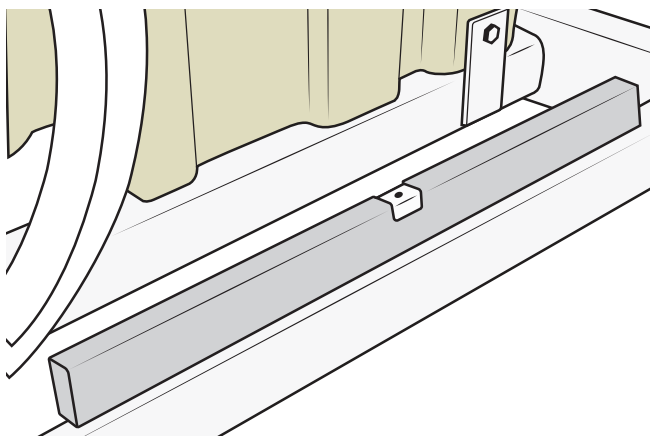


Figure 109

3. Make sure the bathtub is horizontal. Check the level with the spirit-level along the length of the bathtub. See Figure 109.

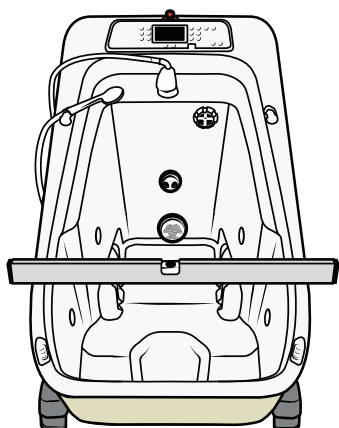


Figure 110

4. Make sure the bathtub is horizontal. Check the level with the spirit-level at the width of the chassis. See Figure 110.

5. Tighten the counter nut.

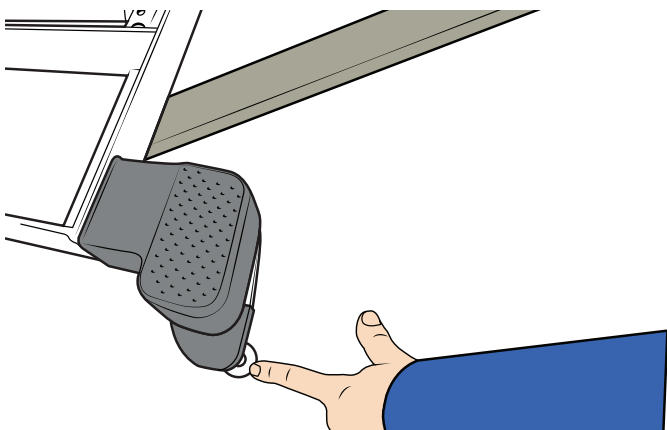


Figure 111

Adjust the front feet (10 steps)

1. Use the wooden lever to temporarily add washers under the feet at the head end to determine how many needs to be added (or removed) on each foot. See Figure 111.

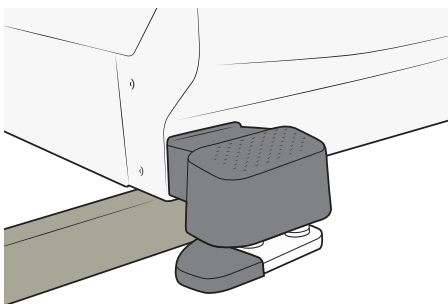


Figure 112

2. Lift the head end (with your hands or use a crowbar) and slide the wood lever in under the chassis. See Figure 112.

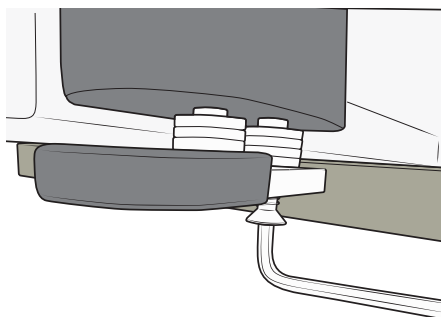


Figure 113

3. Remove the lower part of the foot by loosening the two bolts underneath the foot. Use a hex key. See Figure 113.

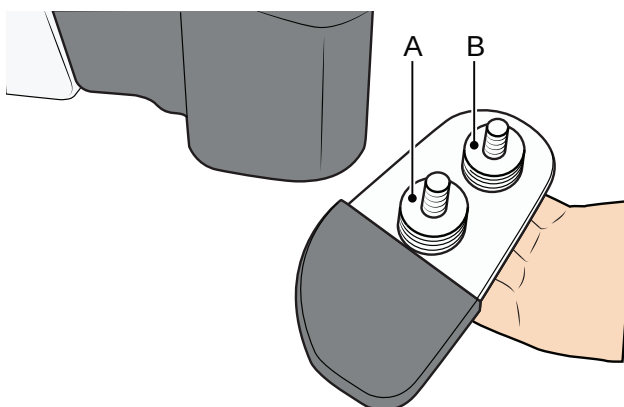


Figure 114

4. Add or remove washers to reach the desired height on the front bolt (A). Normally there are four fitting washers in the front (A) and four in the back (B). Each washer is 5 mm (0.2 in). See Figure 114.

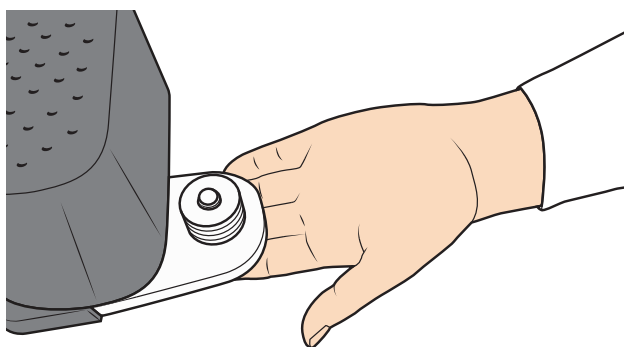


Figure 115

5. Secure the front bolt loosely to the foot.
6. Add or remove washers to reach the desired height on the back bolt. See Figure 115.
7. Secure the back bolt to the foot.
8. Tighten both bolts with 45 Nm and make sure the rubber cover is in position on the foot.
9. Lower the bathtub back on to the floor.
10. If needed, adjust the back feet again. Screw the lower part of the foot back in place.

Electrical installation



WARNING

To prevent injury, all plumbing and electrical work must be carried out by qualified service personnel according to regulations and local codes.



WARNING

To avoid risk of electric shock, this equipment must only be connected to a supply mains with protective earth.



WARNING

The unit must be continuously powered and connected to an electrical power disconnection device (manually operated).



WARNING

The unit must have separate fuse and ground fault circuit interrupter (GFCI/RCBO) (not supplied) in accordance with local codes and regulations.



WARNING

To prevent injury, make sure that the electrical supply corresponds with the information on the data label.



WARNING

The mains connection cable shall be adequately provided with additional mechanical protection both on the distance over/on the floor and on the wall.



WARNING

Make sure mains power cord is positioned in such a way that it is not being run over by lifts, beds and other rolling aids.



WARNING

The mains connection cable type shall be selected so that it can withstand the heat, humidity and chemical load that can be expected in the location.

NOTE

Supplementary earth bonding will be supplied via connecting the appliance by the flex to the earth terminal in the unit according to IEE Regulation 544.2.5 from BS7671.

ELECTRICAL INSTALLATION DATA				
Market	Voltage	Frequency	Mains supply fuse External fuses	Ground fault circuit interrupter
Australia Europe India New Zealand Singapore United Arab Emirates	230 V	50Hz	6A C Miniature Circuit Breaker Interrupting rating: Minimum 1500A	10 mA
Hong Kong	220 V	50Hz	6A C Miniature Circuit Breaker Interrupting rating: Minimum 5000A	10 mA
Japan	100 V	50/60Hz	13A C Miniature Circuit Breaker Interrupting rating: Minimum 5000A	10 mA
Taiwan	110 V	60Hz	13A C Miniature Circuit Breaker Interrupting rating: Minimum 5000A	10 mA
USA Canada	120 V	60Hz	13A C Miniature Circuit Breaker Interrupting rating: Minimum 10000A	5 mA

ELECTRICAL SUPPLY REQUIREMENTS	
Number of phases	Single phase AC
Power consumption Power consumption (Hydromassage)	600VA 850VA
Protective earth	Yes
Potential equalisation	Yes (according to local regulations)

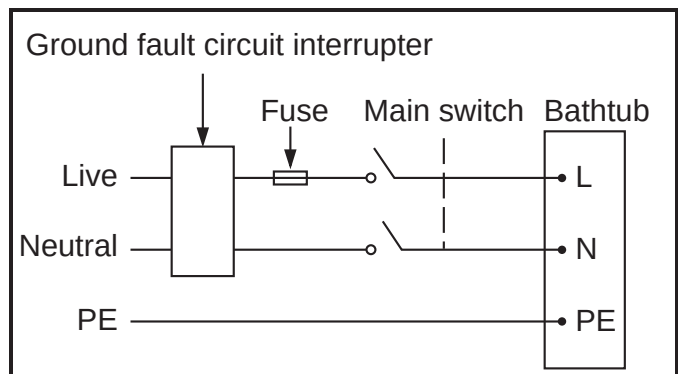
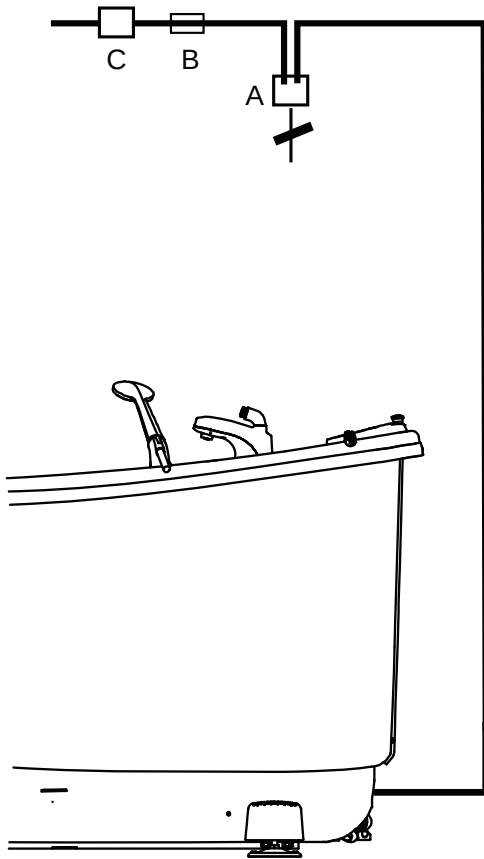
MAINS DISCONNECTION DEVICE	
Permanently installed, visible and accessible at all times.	
Mains transient voltage	4 kV
Creepage distance	Comply with: IEC 61058-1, CAN/CSA-C22.2 NO 61058-1, UL 61058-1
Air clearance	Comply with: IEC 61058-1, CAN/CSA-C22.2 NO 61058-1, UL 61058-1
Installation of the equipment	The installation of the equipment shall be in accordance with the National Electrical Code, Canadian Electrical Code and other Local Electrical Code.

Electrical installation

It is the responsibility of the facility to provide the correct certified connection for the Arjo engineer to connect the unit.

Electrical fittings to be supplied by the facility are:

- A. Mounted (in bathroom) mains double pole switch with indicator, according to local regulations.
- B. Separate fuse
- C. GFCI (Ground fault circuit interrupter) or RCBO (Residual Current Breaker with Over-Current) according to local regulations.



Connect the wires as described:

- Live to the brown wire (L)
- Neutral to the blue wire (N)
- Protective earth (PE) to the yellow/green wire

Make sure there is a separate fuse for the mains to each bathtub and that the fittings are in compliance with local regulations.

For specification and requirements when ordering, please contact your local Arjo representative.

NOTE

If a Booster pump is to be used, make sure it is connected to a separate fuse.

Checks for electrical installation

1. Check that the electrical supply corresponds with the information on the label on the backside of the panel.
2. Check that the product is electrically connected with the following equipment (not included in delivery):
 - Safety switch, according to regulations and local codes
 - Separate fuse
 - Ground fault circuit interrupter

3.



WARNING

Make sure the mains power cord is positioned in such a way that it is not being run over by lifts, beds and other rolling aids.

Check that the mains power cord is positioned so it can not be run over by lifts, beds and other rolling aids.

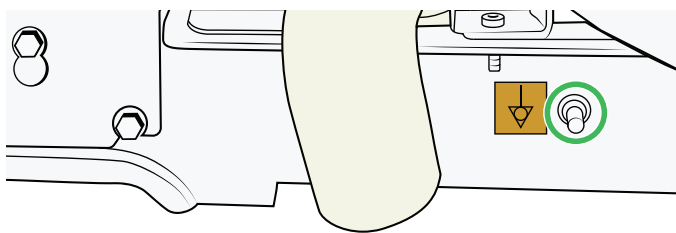


Figure 116

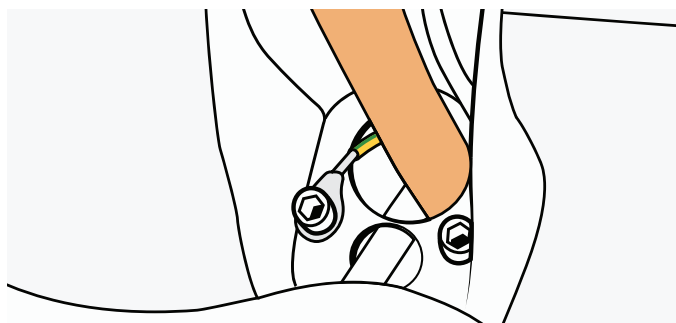


Figure 117

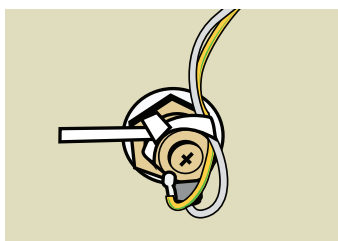


Figure 118

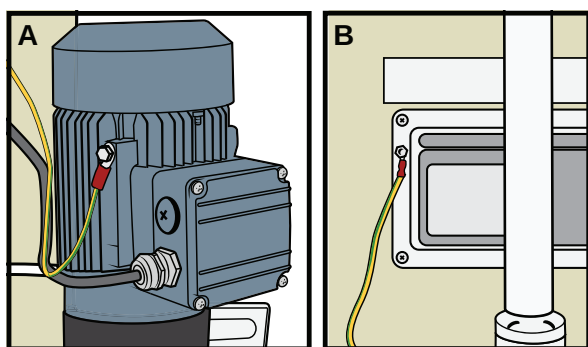


Figure 119

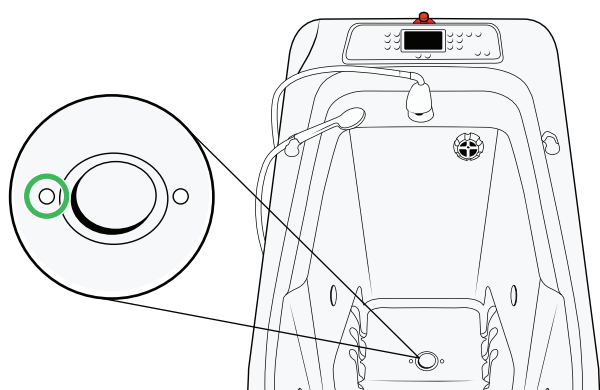


Figure 120

Test of Protective Earth (PE)

With the bath system connected to the PE connection point in the building, measure with an ohmmeter on the parts listed below. PE is equivalent to Ground (US).

1. Hold one end of the ohmmeter against the earth connection point (reference point). See Figure 116.
2. Use the other end of the ohmmeter and check each of the protective earth cables.
 - Inside Fill spout. See Figure 117.
 - All four LED lights, two on each side, (if equipped with Underwater lights). See Figure 118.
 - Hydromassage (A) or Hydrosound (B), if equipped. See Figure 119.
 - Temperature sensor at the bathtub bottom. See Figure 120.

Service tool

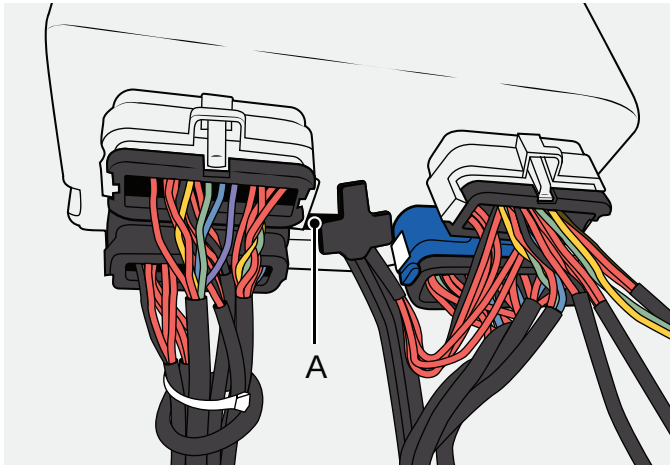


Figure 121

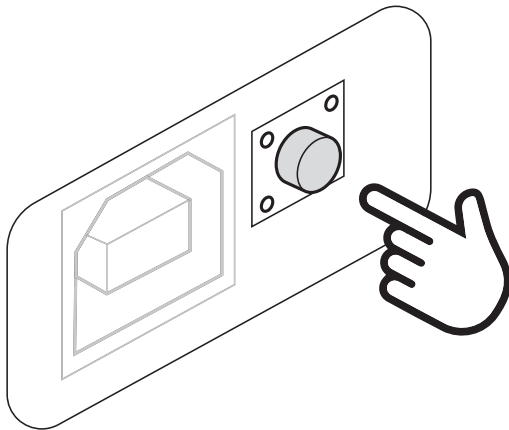


Figure 122

Connect the Service tool

(7 steps)

1. Connect the computer to the bathtub in the USB slot (A) underneath Control box, with an A-B USB cable. See Figure 121.
2. Start the Service tool.
If prompted to update the software for the bathtub, press the software update button next to the USB slot. See Figure 122.
Software update can take from 3 to 10 minutes to do. If the USB cable is unplugged or the update is interrupted during the update, redo the update.
3. Select type of service to be performed.
4. Go to Configuration tab and check that the configuration matches with the bathtub to be installed.
5. Check that the serial number matches with the bathtub being installed.
6. Close the window.
7. The tab window opens.

Tabs

Control Panel: To test the functionality of the buttons on the main and side panels.

Service flags: Shows current error codes (left box) and corresponding logs (right box).

Mixer calibration: To calibrate the temperature sensors and do mixer mapping.

Disinfection: To set the disinfectant and to calibrate the scale (load cell).

Valves: To manually open and close the solenoid valves.

Auto Fill Low (if equipped): To set the Auto fill level low.

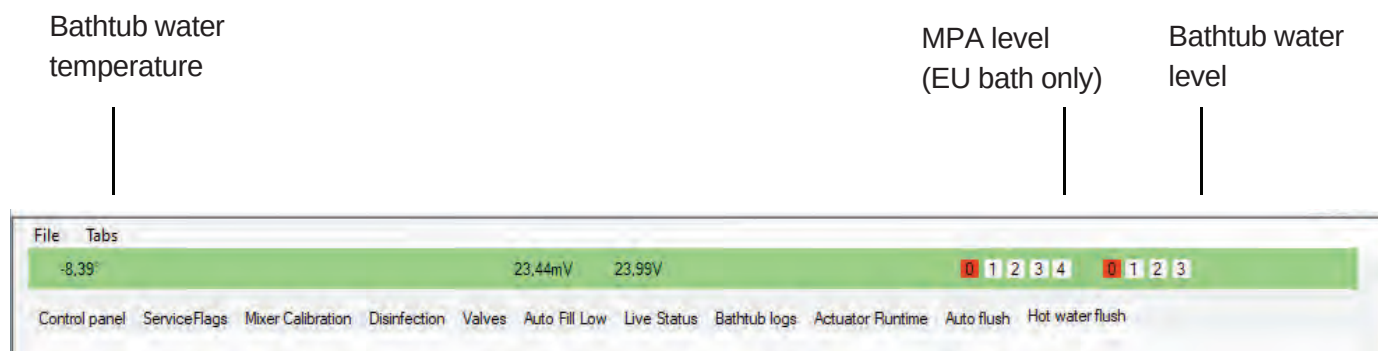
Live status: To see current status of bathtub components.

Bathtub logs: To view and delete the logs of the bathtub.

Actuator runtime:  To read and reset actuator amp. hours.

Auto Flush: To enable or disable Auto Flush and to set the interval.

Hot water flush (if equipped): To calibrate, activate and to reduce noise from the Hot Water Flush servo motor.



Under File there is access to create the job report.

Control Panel

When a button is pressed an overlay appears in Service tool. 

When a button is released, a second overlay and a circle appears in Service tool.

Circle means that the button is OK. If no circle appears, see the Troubleshooting section in the Maintenance and repair manual.

Main panel

Press and release all buttons. The buttons are OK if the grey overlay and circle appears. No overlay or circle around the grey overlay means that the button is broken.

Side panels

The two side panels are parallel connected.

Press and release all buttons (down, up and shower) on both left and right side.

If the overlays and circle appears, the button is ok. If no overlays and circle appears, the button is broken.

Mixer calibration

(For detailed instructions see Calibration of mixer (temperature control) on page 74.

Click OK when prompted to enter into service mode. In Service mode scalding protection is disabled. When leaving mixer calibration, the bathtub will restart.

Start calibration timer low temp: Press when low temperature is stabilised.

Start calibration timer high temp: Press when high temperature is stabilised.

Calibrate: Press after low or high temperature is entered into the respective field.

Temp fill/shower/bathtub: Shows current temperature.

The screenshot shows the 'Mixer Calibration' tab in the service tool. At the top, a green status bar displays '18,75°C', '35,262 V', and '23,678 V'. Below this, a navigation bar includes 'Control panel', 'ServiceFlags', 'Mixer Calibration' (selected), 'Disinfection', 'Valves', 'Auto Fill Low', 'Live Status', 'Bathtub logs', 'Actuator Runtime', and 'Auto flush'. The main interface has three sub-tabs: 'Fill', 'Shower', and 'Bath'. Under 'Fill', there is a '30 s moving avg' display showing '20,96114' and a large '21,02°C' display. To the right, there are two identical calibration sections. Each section has a 'Start calibration timer low temp' or 'high temp' button, a text input for 'Enter externally measured average temp during same time:', and a 'Calibrate' button.

Mixer mapping

Start fill/shower: Starts water flow from fill/shower

Map fill/shower: Starts the mixer mapping

Stop fill/shower: Stops water flow from fill/shower.

Disinfection

Set the disinfectant concentration

Choose disinfection agent

Select type of disinfectant from the drop down menu.

Save: Confirm, information transferred to bathtub software

Calibrate weight scale

Unloaded: click when there is no load on the scale.

Loaded: click when calibrated weight is on the scale and type in the value of the weight.

The screenshot shows the 'Disinfection' and 'Calibrate weight scale' sections. The 'Disinfection' section has a 'Choose disinfection agent:' dropdown menu with 'Values from bath' selected, a 'Dilution (ml/L):' input field with '10,21', a 'Contact time (min):' input field with '3', and a 'Density:' input field with '1,017'. There is a 'Save' button and a 'Calibration factor' display showing '1,1167'. The 'Calibrate weight scale' section has two buttons: 'Unloaded' and 'Loaded'. Below these, a 'Live values' box displays 'DIS WEIGHT 1795,4 g' and 'FLOW_METER 0,000 lpm'.

Valves

Select a valve in the menu. Click **Open** or **Close** to test if the valve opens or closes (when prompted place bathtub in service mode).

open  closed 

When all valves is tested and passed, click **Valves have been tested**. The information is sent to the test report. When leaving the valves tab the bathtub and Service tool restarts.

Auto Fill Low (if equipped)

Fill time is in seconds.

Bathtub should be empty and drain closed. Click **Start Auto Fill** to start process. Bathtub will fill to mid level then calculate what the low level should be. Do not interfere with bathtub during filling.

Live status

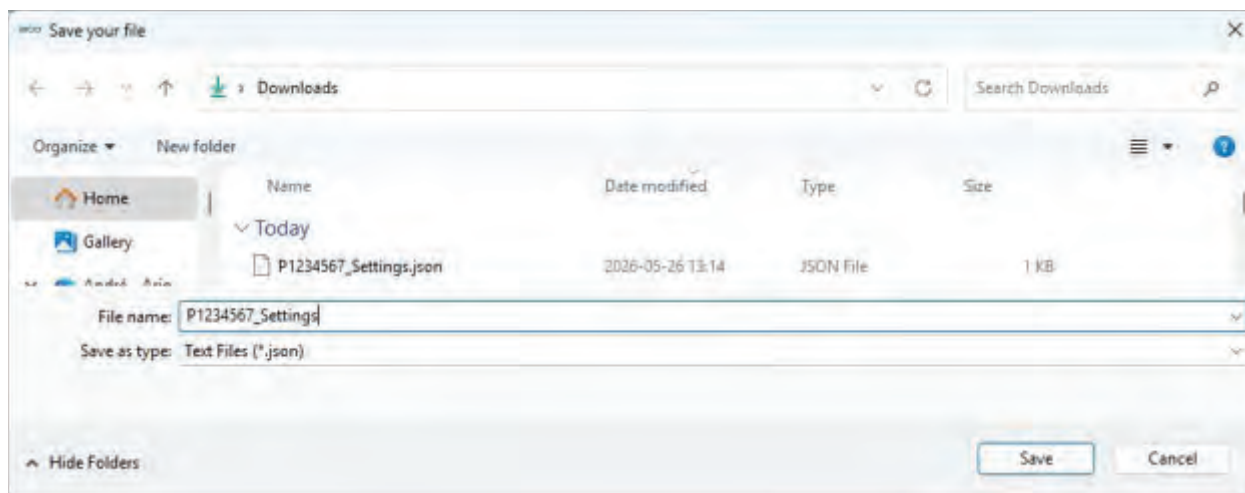
View live values of bathtub components.



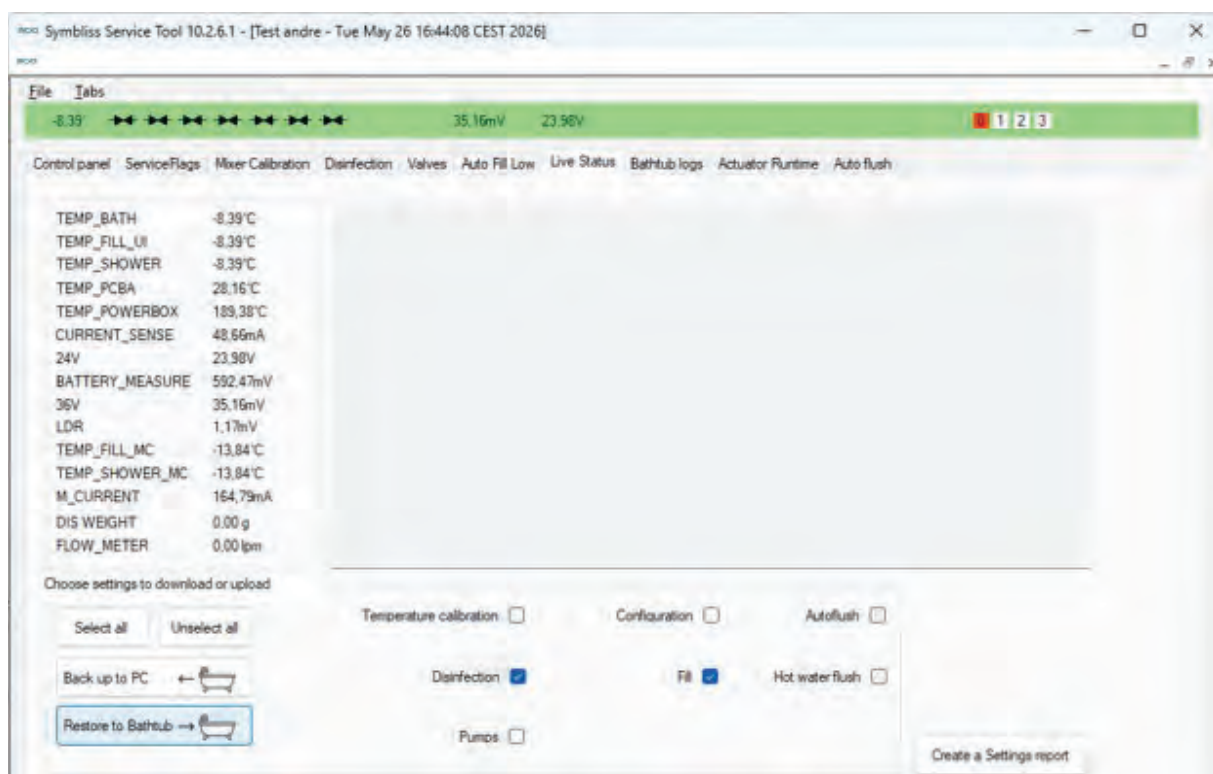
1. Select the settings you want to back up.
 - Click "Select all" for a full backup.
 - Click on each checkbox corresponding to the category of settings you wish to backup.
2. Click the "back up" button.
3. Once the reading is done a save window pops up.
4. Choose a filename that allows you to identify what settings were extracted from the bathtub (for example use the product serial number and write "all" if you backed up all settings).

NOTE

Do not try to open or modify this file; it is only understandable for the bathtub.



Restore files



1. Select the settings you want to restore.
 - Select "Select all" for a full restore.
 - Select on each checkbox corresponding to the category of settings you wish to restore.
2. Click the "Restore to Bathtub" button.
3. Select from the pop-up window the file you would like to restore.

NOTE

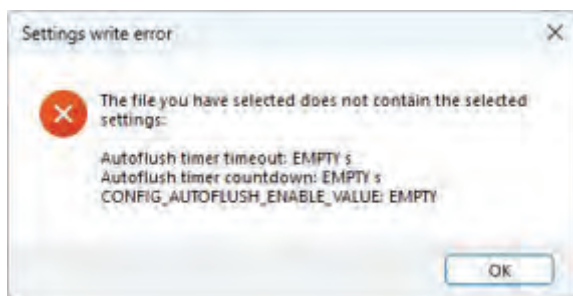
Select only the file that contains the values selected

NOTE

Only the *Configuration* settings are portable between bathtubs. Make sure to select a file extracted from the bathtub being worked on.

4. Verify that the selected settings are correct when prompted to.
 - Read carefully the value of each setting that you would like to send to the bathtub.
5. Click “Yes” to confirm that you want to use and restore the shown values.

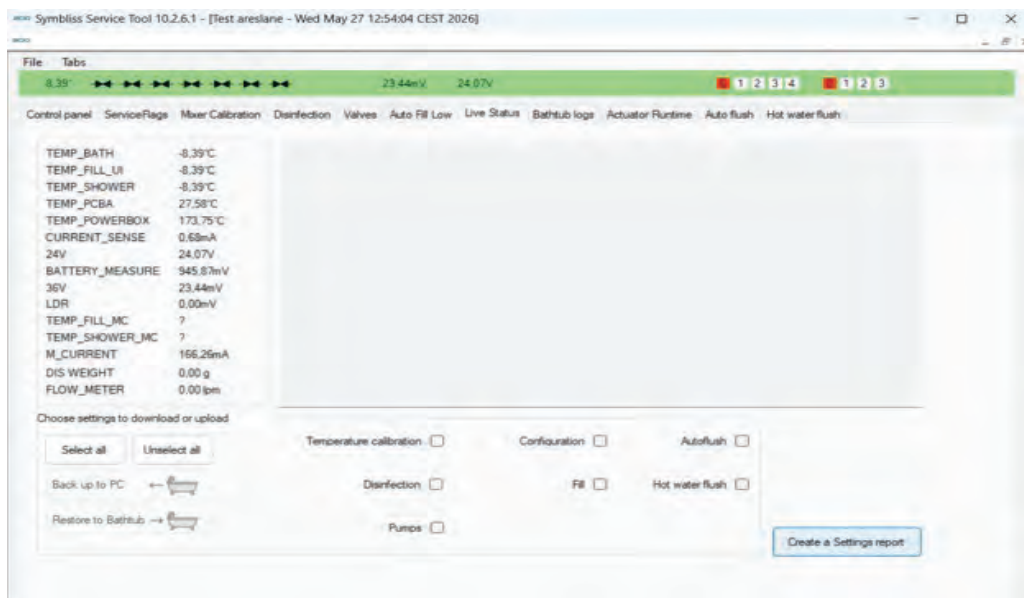
If the values do not correspond to the selected file an error will occur.



NOTE

You may try to restore settings several times to succeed.

Settings report



1. Click the “Create settings report” button.

NOTE

The settings report is saved when closing Service Tool.

2. Copy the path to the report to be able to find it in the Service Tool folder on the computer.

In this folder there are several files relating to Service tool that has been opened on this computer.

- Look at the date and time and select the file that was created when Service Tool was last closed.
- The settings report is in “Sybliss Settings.log”

P0000001_20260527124827737...	Compressed (zipped) Folder	43,916 KB	No	43,903 KB	0%	2026-05-27 12:54
Symbliiss Keystone Detailed.log	Textdokument	7 KB	No	72 KB	91%	2026-05-27 12:54
Symbliiss Keystone Error.log	Textdokument	1 KB	No	1 KB	0%	2026-05-27 12:54
Symbliiss Keystone Log.Raw	RAW File	0 KB	No	0 KB	0%	2026-05-27 12:54
Symbliiss Keystone Product.log	Textdokument	0 KB	No	0 KB	0%	2026-05-27 12:54
Symbliiss Keystone User.log	Textdokument	8 KB	No	13 KB	77%	2026-05-27 12:53
Symbliiss Settings.log	Textdokument	1 KB	No	2 KB	66%	2026-05-27 12:54

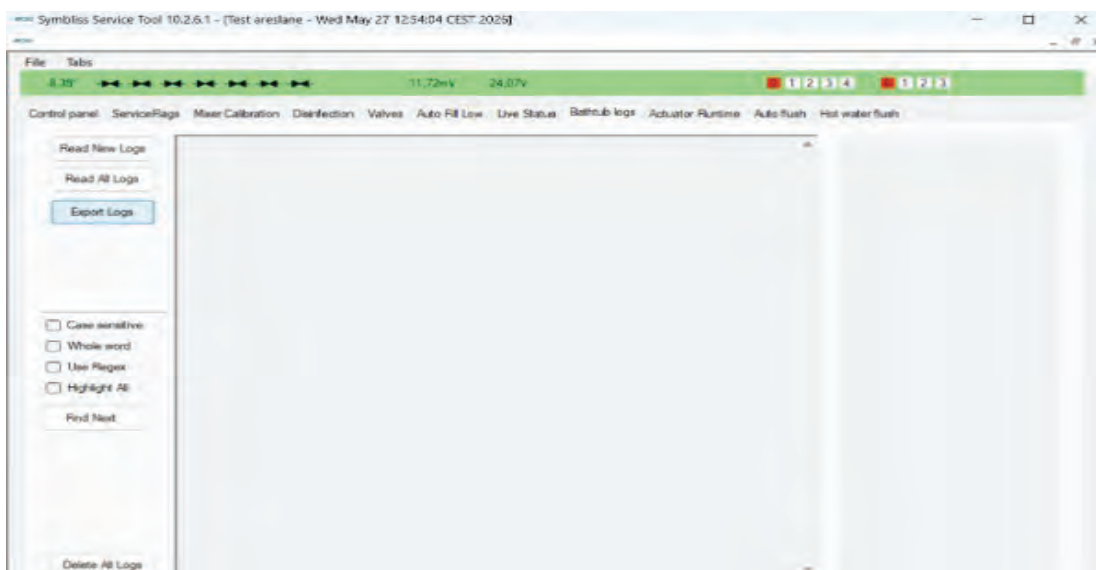
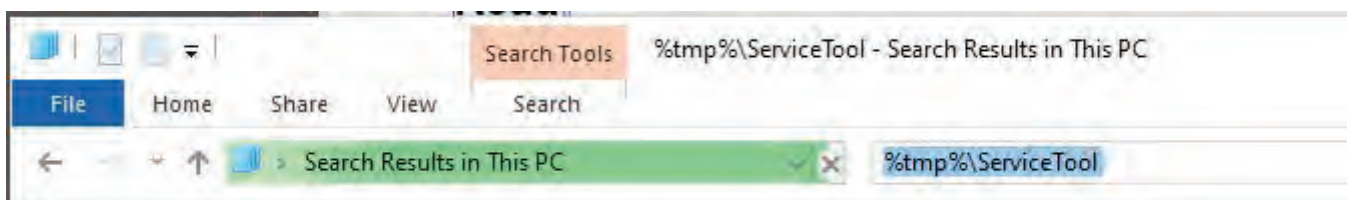
Bathtub Logs

Read New Logs: Retrieves all new log entries since last Read New Logs.

Read All Logs: Retrieves all logs.

Delete All Logs: Delete stored logs (use if Retrieve all logs does not work)

To retrieve the logs for tech support to read, go to an Explorer window and type in: %tmp%\ServiceTool.



1. Click "Export logs" button.

The created Zip file opens up on the computer.

2. Save the file

Searching the logs

1. Write a search term in the search window.
2. Check any other search settings needed, Case sensitive, whole word, Use Regex and Highlight All.

NOTE

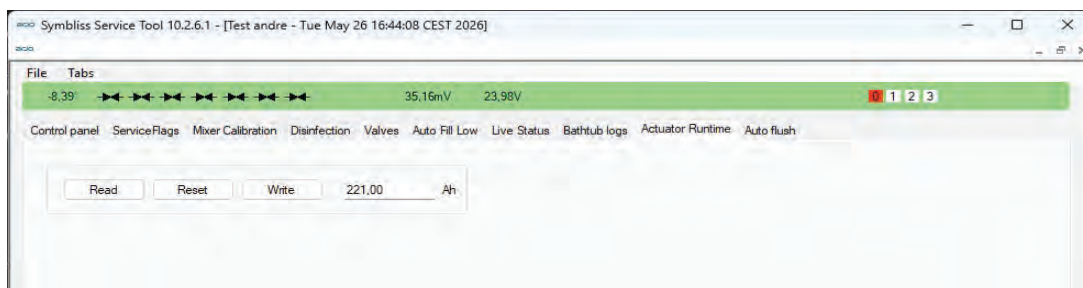
Support for using Regex commands is available in the release note. We recommend you to also search online to familiarize yourself with this tool.

Actuator Runtime

Checking and resetting the actuator runtime (Reset only when replacing the actuator)

Reset: Resetting the actuator runtime

Read: Retrieve the value of “Ah”. Ah” = ampere hour per life cycle



1. Write new actuator runtime value in the box. Enter a value between 0 and 2000Ah.
2. Click on the “write” button.
3. Click “OK”

NOTE

If the actuator runtime value exceeds 2000 Ah, write a value above 680 Ah to flag that the actuators must be replaced and schedule an actuator replacement.

Auto Flush

Disabled: Turns off Auto Flush

Auto Flush interval

Setting options:

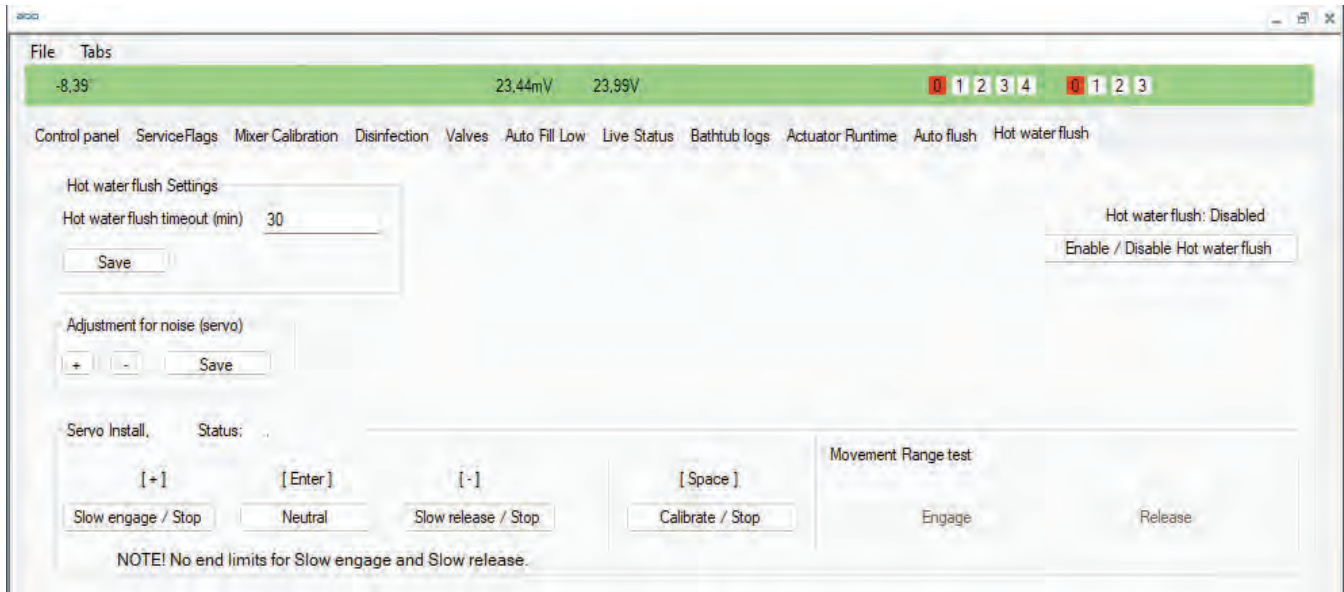
12h: Auto Flush starts 12 h after last use

24h: Auto Flush starts 24 h after last use

Run Auto flush: Test Auto Flush function. (There will be a buzzing sound from the exercise of the disinfection pump after performed test, it will last for a minute.)

Save: Save the setting

Hot Water Flush (if equipped)



Hot water flush timeout: Sets the HWF time-out (default 30 minutes).

Save: to save new timeout

Adjustment for noise

The Hot Water Flush servo motor can produce a humming noise after some use. By changing the position of the white lift arm, the noise can be removed. To neutralise the noise press either the “+” or “-” in the servo noise section to reposition the white lift arm. Adjust until the noise is neutralised and then press **Save**.

Servo Install

Slow engage/Stop and **Slow release/Stop** is a process done before calibration to make sure there are no mechanical interferences with the white lift arm. Make sure to stop movement of the white lift arm before it hits anything, to avoid burning the servo motor.

Slow engage/Stop: Slowly moves the white lift arm towards the Hall sensor.

Slow release/Stop: Slowly moves the white lift arm away from the Hall sensor.

Neutral: Moves the white lift arm into a neutral position.

Calibrate/Stop: Starts the calibration.

Movement Range test

This is done to simulate a real movement of the white lift arm with the Hall sensor at real speed

Engage: Positions the white lift arm in front of the hall sensor.

Release: Brings the white lift arm into a lifted position.

Enable/Disable Hot Water Flush: Enables or disables the Hot Water Flush function.

Coloured frame in Display

Blue frame = USB Connected.

Yellow frame = USB Connected and in Service Mode.

When removing the USB cable the bathtub will restart.

Drain installation

DRAINAGE REQUIREMENTS	
Flow capacity (minimum)	100 l/minute (26.4 US gal/minute)
Position	Floor, wall
The bath must be connected to a drainage. Connections must be done in accordance with local regulations.	

Floor and wall drain installation

1. Cut the drain pipe to a suitable length according to the floor drain (A) or wall drain (B).
See Figure 123, measurement is in mm (in).
See Floor drain alternatives on page 69.
2. Insert drain pipe or drainage hose to the water trap.

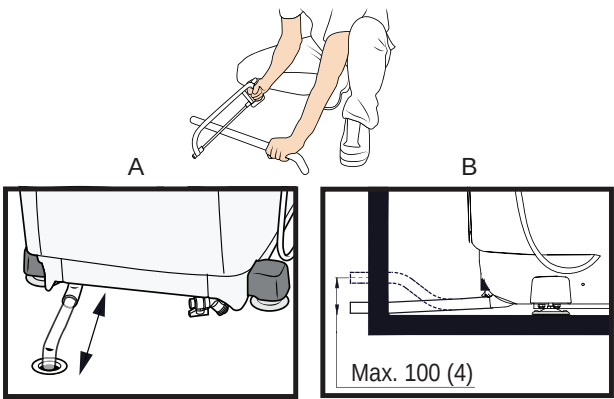


Figure 123

Floor and wall drain installation US/CA

1. Cut the drain pipe to a suitable length according to the floor drain (A) or wall drain (B).
See Figure 124, measurement is in mm (in).
See Floor drain alternatives on page 69.

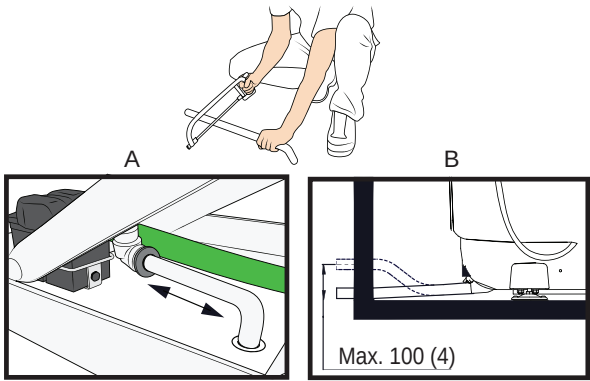


Figure 124

2. Install the adapter (A) and attach the pipe (B).
See Figure 125.

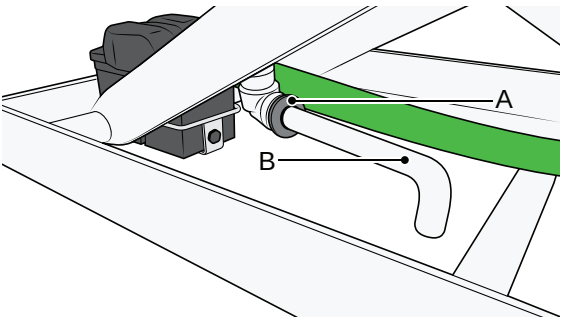
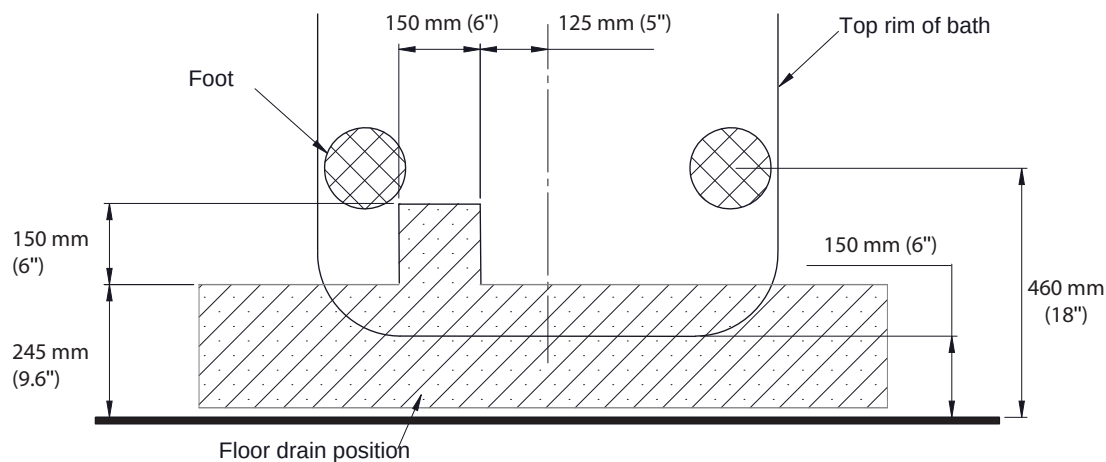


Figure 125

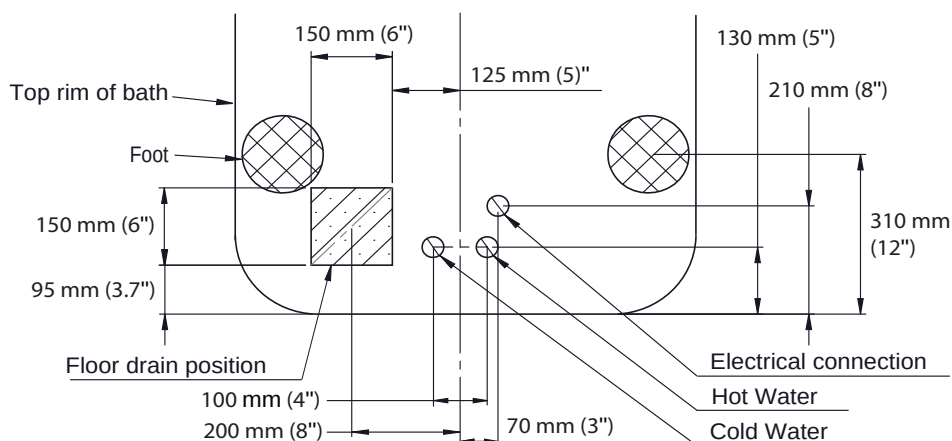
Floor drain alternatives

All measurements are in mm (in).

New installation

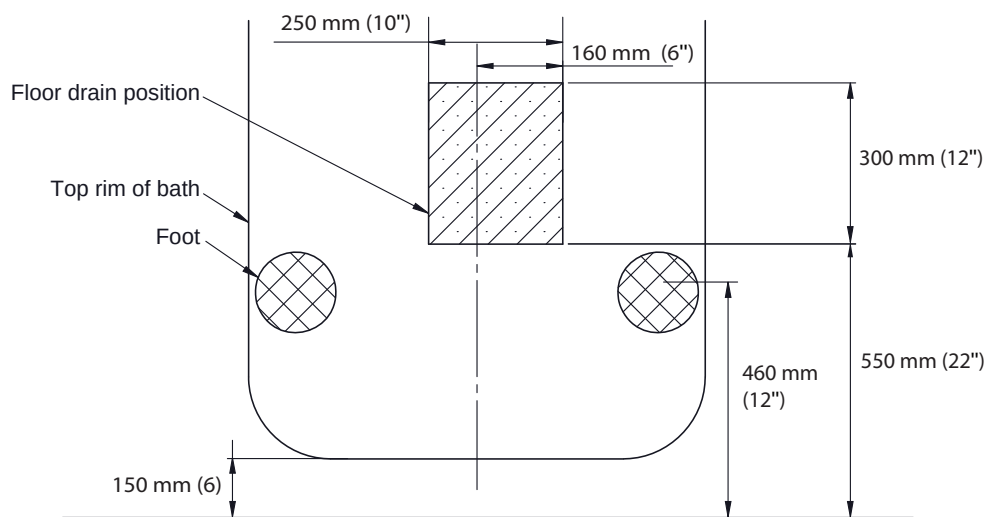


Island installation*



*Requires connection hose 600 mm (24 in) or shorter, depending on if country specific backflow prevention is used.

US/CA installation or Replacement of System 2000 bath



Water installation

WARNING

To prevent contamination always wear clean gloves and use clean tools when performing the water installation. Place the water installation equipment on a clean surface.

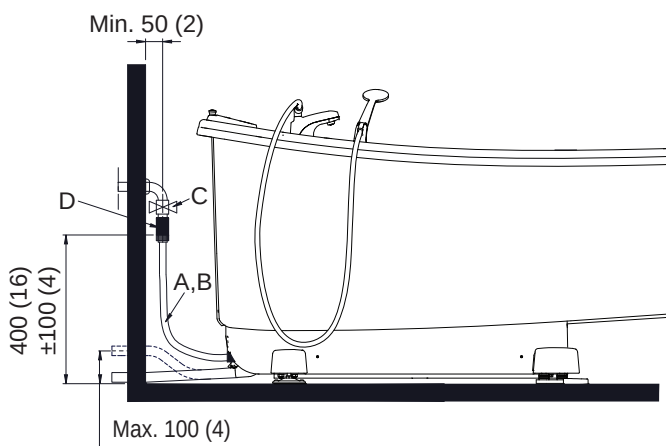
WATER SUPPLY REQUIREMENTS	
Maximum dynamic pressure	6 bar (600kPa/87psi)
Recommended dynamic pressure	3 bar (300kPa/43.5psi)
Minimum dynamic pressure	1 bar (100kPa/14.5psi)
Minimum dynamic pressure US/CA	2.5 bar (250kPa/36.3psi)
Cold water	5–20°C (41–68°F)
Hot water	55–80°C (131–176°F)
Minimum flow capacity / supply pipe	100 l/minute (26 US gal/minute)
Backflow prevention device	For NL and US/CA. See Backflow prevention device (installed between facility water supply and bathtub) on page 98.

WATER SUPPLY CONNECTION	
Cold/hot water	3/4" B.S.P male
Connect with shut off valves between unit and supply minimum through Ø16 mm	

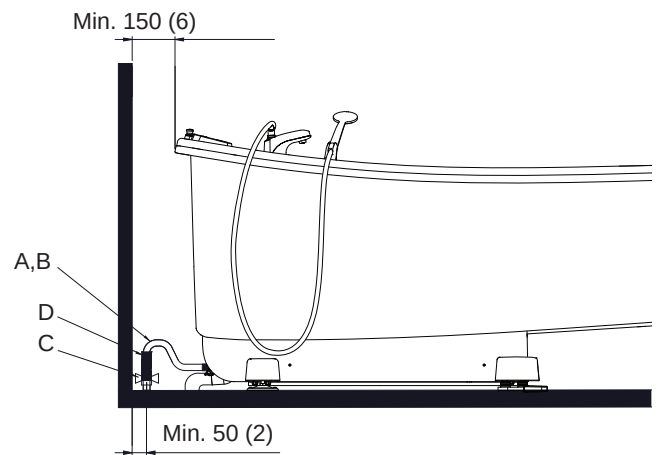
Connect water supply hoses

1. Turn off the incoming water (facility).
2. Connect the water hoses to the water outlets on the wall or floor.
3. Connect the hose connected to the hot water outlet to the hot bathtub shut-off valve (red handle).
4. Connect the hose connected to the cold water outlet to the cold bathtub shut-off valve (blue handle).
5. Turn on the incoming water (facility).

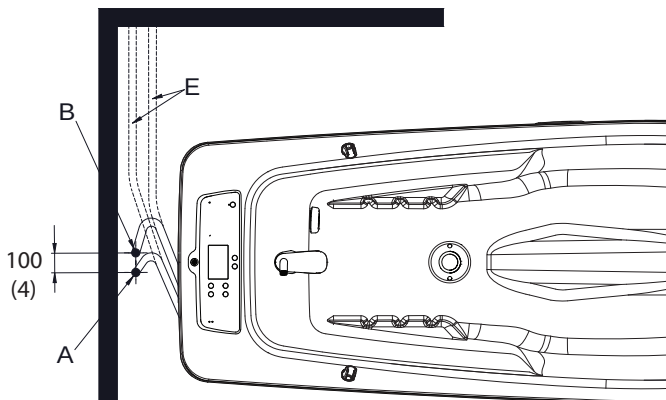
Water connection from wall



Water connection from floor



Hot and cold water hoses distance



All measurements are in mm (in).

A: Hot water

B: Cold water

C: Shut off valves

D: Backflow prevention (Country specific)

E: Alternative routing of connection hose.
(Can be connected to opposite side. Adjust hose length based on the installation needs.)

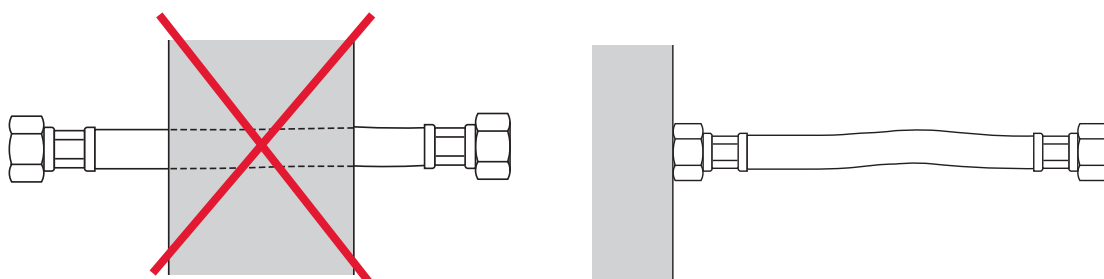
Guidance for correct installation of water hose

IMPORTANT

The water hoses must be installed within sight.

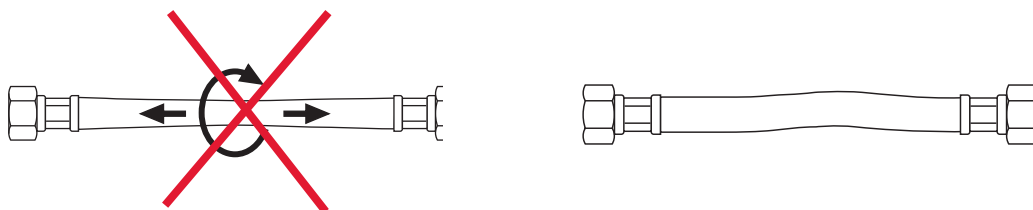
They must not be walled up, installed in narrow tunnels or in places where they cannot be reached and inspected.

The water hoses must not be insulated or covered with insulating material.



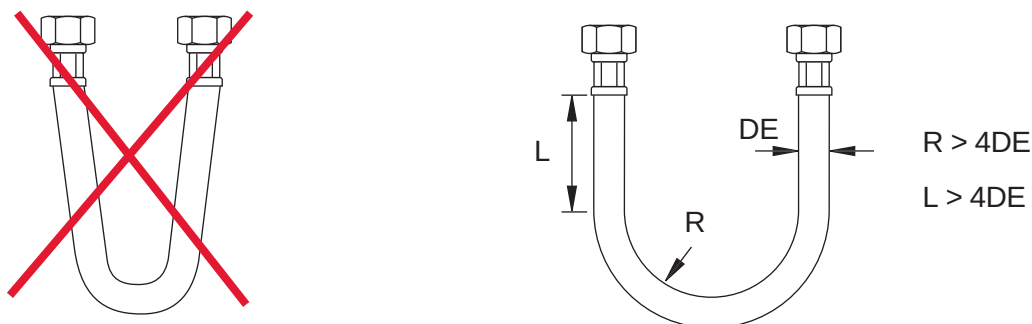
IMPORTANT

Do not install water hoses in tension or in torsion.



IMPORTANT

Do not install water hoses with bending radius (R) less than those quoted in the illustration.



Calibration of settings

To make sure the calibration settings from production have not changed, perform a temperature check.

Temperature check

CAUTION

Do not turn the large gear wheel if the bathtub is turned off and the mixer step motor is connected.

1. Connect the Service tool.
2. Open the Mixer Calibration tab in the Service tool.
3. Click **YES** to set it in Calibration Mode.

NOTE

The automatic scalding protection and the step motor for the mixer regulation are now disabled. The automatic scalding protection and the step motor for the mixer regulation will be automatically restored when Service tool is disconnected or the bath is turned off/on.

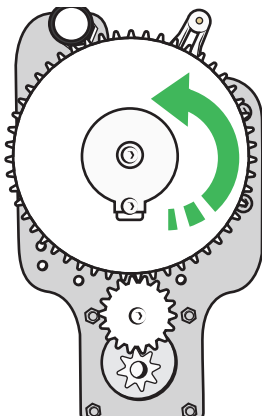


Figure 126

4. Open the drain.
5. Turn the large gear wheel counter-clockwise until it stops against the mechanical stop. See Figure 126.
6. Press the Fill button.
7. Check that the temperature on the display shows between 43.5 - 47°C (110.5 - 116.5°F).
8. Press the Shower button.
9. Check that the temperature on the display shows 41.5 - 43°C (106.5 - 109.5°F).
10. Turn off the shower.
11. If the temperature is in the intervals, continue with Mixer mapping on page 78 and Mixer - Final Check on page 78.
If the temperature fails, perform a calibration. See sections Calibration of mixer (temperature control) on page 74. Continue with Mixer mapping on page 78 and Mixer - Final Check on page 78.
12. Disconnect the Service tool and unplug the cord.

Calibration of mixer (temperature control)

(62 steps)

CAUTION

Do not turn the large gear wheel if the bathtub is turned off and the mixer step motor is connected.

NOTE

If there is an extended temperature decline when testing Fill, it could mean that the warm water supply has run out.

1. Connect the Service tool.
2. Open the Mixer Calibration tab in the Service tool.
3. Click **YES** to set it in Calibration Mode.

NOTE

The automatic scalding protection and the step motor for the mixer regulation are now disabled. The automatic scalding protection and the step motor for the mixer regulation will be automatically restored when Service tool is disconnected or the bath is turned off/on.

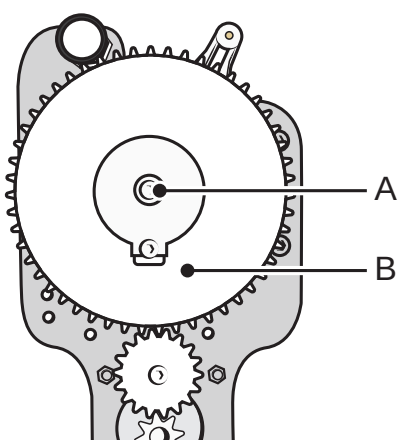


Figure 127

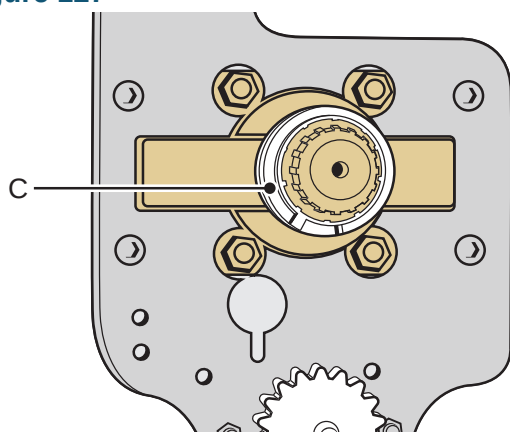


Figure 128

4. Open the drain.
5. Remove the centre screw (A) and lock washer on the large gear wheel (B). See Figure 127. ONLY remove the centre screw.
6. Position the large gear wheel (B) according to Figure 127.
7. Remove the large gear wheel (B).
8. Remove the stop ring (C). See Figure 128.
9. Re-attach the large gear wheel on the mixer splines according to Figure 127.
10. Press the Fill button to start filling on maximum flow. Make sure it is maximum flow.

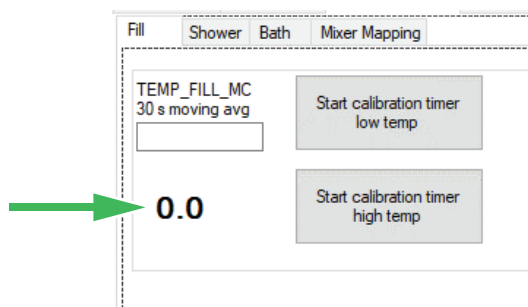


Figure 129

11. Turn the large gear wheel slowly until the temperature reads $45^{\circ}\text{C} +0 -0.5$ (113°F), read the temperature in the Service tool.

See Figure 129.

Aim for $44.5^{\circ}\text{C} +0.5$ ($112^{\circ}\text{F} +0.9$). Temperature should remain steady for 30 seconds.

NOTE

Aim for 44.5°C (112°F) and turn slowly as it takes a while for the temperature reading to stabilise.

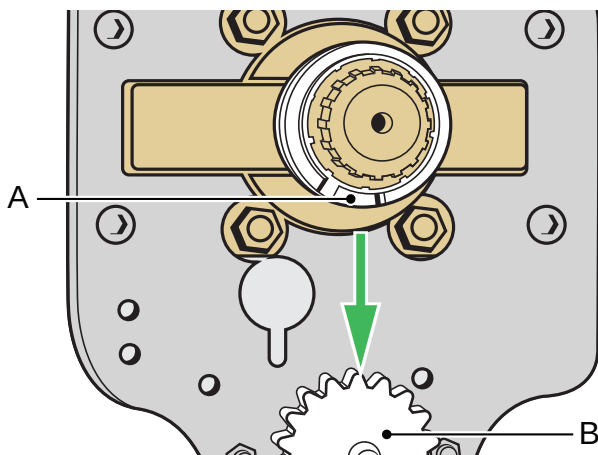


Figure 130

12. Press the Shower button, set it to high flow. Do not adjust the large gear wheel. The shower temperature should be 42°C (107.6°F) or above, actual temperature reading in Service tool, see Figure 129. If the temperature is lower, adjust on the large gear wheel until the temperature is $42.0^{\circ}\text{C} +0.5-0$ ($107.5^{\circ}\text{F} +0.9-0$) and remains so for 30 seconds.

13. Turn off the shower.

14. Remove the large gear wheel without turning it.

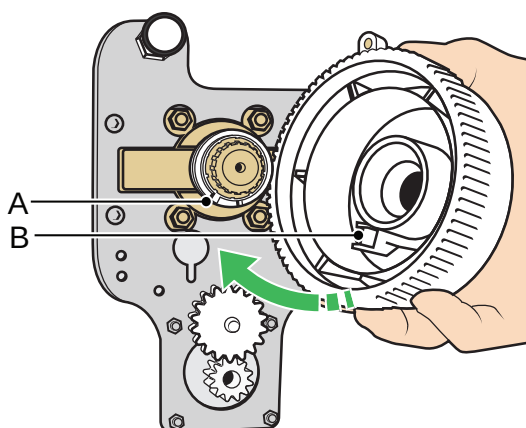


Figure 131

15. Position the stop ring on the mixer splines, push firmly, with the cut out (A) pointing down towards the medium gear wheel (B). Make sure the stop ring is on there firmly. See Figure 130.
16. Position the large gear wheel on the mixer splines and make sure the override stop knob (B) fits onto the stop ring cut out (A). Do not rotate the spline. See Figure 131.

Instructions continue on the next page

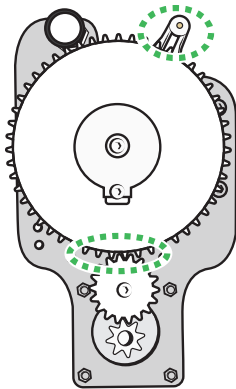


Figure 132

17. Make sure the large gear wheel is in the correct position according to picture. See Figure 132.

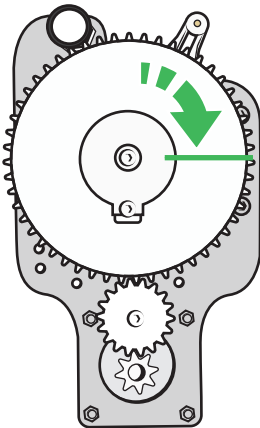


Figure 133

18. Turn the large gear wheel clockwise a quarter turn. See Figure 133.

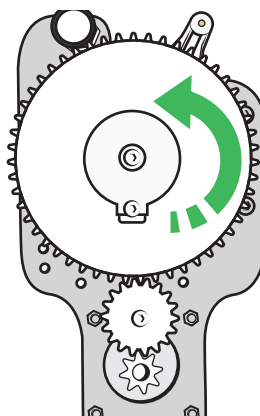


Figure 134

19. Turn the large gear wheel counter-clockwise until it stops against the mechanical stop. See Figure 134.

20. Press the Fill button.

21. Check that the temperature on the display is between 43.5 - 47°C (110.5 - 116.5°F).
If not go back to step 11.

22. Press the Shower button.

23. Check that the temperature on the display is between 41.5 - 43°C (106.5 - 109.5°F).
If not go back to step 11.

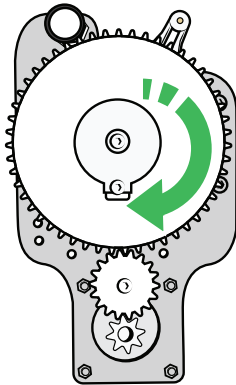


Figure 135

24. Turn off the fill.
25. Attach the centre screw and lock washer on the large gear wheel. Make sure that the washer is a lock-washer.
26. To set the coldest position, turn the large gear wheel clockwise just until the blue light (hall sensor) is lit. See Figure 135.
27. Press the Fill button, set to the highest flow, and let the temperature stabilise, about 3 minutes. Check the temperature in the Service tool, not on the display.
28. Note the temperature.
 If (below) $< 25^{\circ}\text{C}$ (77°F) then go to next step.
 If (above or equal) $\geq 25^{\circ}\text{C}$ (77°F) go back to step 4.
 When repeating step 11 and 12, decrease fill target temperature and the shower target temperature by 0.5°C (0.9°F).
 If necessary continue lowering the target temperature by 0.5°C (0.9°F).

NOTE

If there is large difference in pressure between cold and warm water it may not be possible to reach the lower limit, 25°C (77°F), for all flow settings. Try to adjust the mechanical stop again and if no success inform the facility about the pressure difference in the inlet water and what the lowest possible temperature is.

29. Turn off the fill.

Instructions continue on the next page

Mixer mapping

30. Connect the Service tool.
31. Go to Mixer Calibration tab.
32. Click **YES** to enter Calibration Mode.
33. Go to Mixer Mapping tab.
34. Click **Start Fill**.
35. Turn the large gear wheel clockwise just until the blue light is lit. Wait for the temperature to stabilise.
36. Click **Map Fill**.
37. The mixer returns to the coldest position when automatic mapping for the Fill is complete. Let the water run for some time for the temperature to stabilise.
38. Click **Stop Fill**.
39. Click **Start Shower**.
40. Wait for the temperature to stabilise.
41. Click **Map Shower**.
42. The mixer returns to the coldest position when automatic mapping for the shower is complete. Let the water run for sometime for the temperature to stabilise.
43. Click **Stop Shower**.
44. Disconnect the Service tool and unplug the cord.

Mixer - Final Check

- Use a bucket and an external thermometer to measure the water temperature. Measure the water temperature in the bucket while the water is running.
45. Restart the bathtub.
 46. Start the fill on medium flow and set the temperature to 25°C (77°F). Let the water flow until the temperature is stable.
 47. Measure the water temperature and make sure it is 25°C ± 2°C (77°F ± 3.6°F). Check the temperature at low and high flow with the external thermometer.
 48. Set the temperature to 37°C (98.5°F). Let the water flow until the temperature is stable.
 49. Measure the water temperature and make sure it is 37°C ± 1°C (98.5°F ± 1.8°F). Check the temperature at low and high flow with the external thermometer.
 50. Set the temperature to 43°C (109.5°F). Let the water flow until the temperature is stable.
 51. Measure the water temperature and make sure it is 43°C +0°C -1°C (98.5°F +0°F - 1.8°F). Check the temperature at low and high flow with the external thermometer.
 52. Start the shower on medium flow and set the temperature to 25°C (77°F). Let the water flow until the temperature is stable.
 53. Measure the water temperature and make sure it is 25°C ± 2°C (77°F ± 3.6°F). Check the temperature at low and high flow with the external thermometer.

54. Set the temperature to 37°C (98.5°F). Let the water flow until the temperature is stable.
55. Measure the water temperature and make sure it is 37°C ± 1°C (98.5°F ± 1.8°F). Check the temperature at low and high flow with the external thermometer.
56. Set temperature to 41°C (106°F). Let the water flow until the temperature is stable.
57. Measure the water temperature and make sure it is 41°C +0°C -1°C (106°F +0°F - 1.8°F). Check the temperature at low and high flow with the external thermometer.
58. Turn off the shower.

To check bottom bathtub sensor:

NOTE

If there is an extended temperature decline when testing Fill, it could mean that the warm water supply has run out.

NOTE

If temperature controller is taking excessive time to stabilise to set temperature it is recommended to perform Mixer Mapping.

59. Press the Fill button and set the temperature so that the water temperature in the bath is approximately 35-40°C (95-104°F). Let the water flow for sometime to stabilise the temperature.
60. Close the drain and fill up the bathtub 10 cm.

61. Turn off the fill and measure the temperature with the external thermometer.
62. Check that the display temperature is maximum ± 2°C (36°F) compared to the external thermometer.

If temperature targets are not reached, see Troubleshooting with Mixer Mapping on page 80.

Hot Water Flush verification (if equipped) (16 steps)

 WARNING

To prevent scalding never use the Hot Water Flush function if the shower handle cannot be safely positioned in the shower handle holder.

1. Open the drain.
2. Make sure there is no water in the bathtub.
3. Turn the HWF key to enable HWF.
4. Wait for HWF to start up.
5. Make sure the shower handle is placed in the shower handle holder.
6. Close cold water valve for incoming water. Located near the floor at the foot end of the bathtub.

7.

 WARNING

Extremely hot water will flow from the fill spout and shower.

Press Shower button on the main panel for two seconds to start HWF.

Instructions continue on the next page

8. Make sure temperature goes above 50°C (122°F).
9. Make sure the wheel is rotating past the mechanical stop.
10. Press Shower button to cancel after about a minute has passed.
11. Make sure the mixer wheel returns to its original position.
12. Open cold water valve for incoming water.
13. Press Shower button to start flushing with cold water.
14. Wait for the water to stop flushing.
15. Turn the HWF key to disable the HWF function when indicated on the display.
16. Remove the key and keep it in a safe place.

Troubleshooting with Mixer Mapping

If the final check is not successful:

- **Final check fail:** display temperature of one sensor (fill, bottom bathtub sensor and shower) is different from external thermometer and mixer is not adjusting anymore.

Solution: Then re-calibrate that sensor.

See Maintenance and repair manual, SP 13.

Example: If final check failed with shower only – check the shower temperature sensor calibration
If final check failed with fill only –check the fill temperature sensor calibration.

- **Final check fail:** difficulty to find stable temperature for fill or shower.

Solution: redo mixer mapping.

Example: If temperature jumps and is never stable.

- **Final check fail:** failed with both fill and shower temperature.

Solution: redo mixer calibration.

Example: If both fill and shower temperature does not match with external thermometer.

If the bath has been stopped during the calibration procedure and/or the scalding protection has been engaged; please disengage the scalding protection by performing steps 2-3 when the temperature of the bath so allows.

Water supply:

If the final check cannot be completed, check the water supply pressure and temperature, check that the internal thermometers are calibrated correctly and check that the latest software release is installed on the bathtub and the latest Service tool software is installed.

Stuttering:

If the mixer stutters while moving close to the mechanical stop and the mixer fails to move between hot and cold. Then check the mounting of the stop ring, the opening shall be mounted aligned centre down.

Stop ring:

Make sure the stop ring is in place, by attaching and turning back and forth until you feel there is a mechanical stop. Alignment is important, to make sure it align with the medium gear wheel.

Scalding protection (If scalding protection has been activated during calibration):

In order to reduce the waiting time until the temperature of the bath allows for operator input, the fill temperature sensor and the shower temperature sensor may be cooled by the use of a cold and wet cloth or similar on the connecting pipes.

NOTE

This can only be done during calibration.

Hot Water Flush:

If Hot water flush symbol on the display is progressing but Hot Water Flush do not start within a reasonable time, then check that the Hot Water Flush micro switch lever is in the correct position. If the micro switch lever is stuck then adjust the position. See Hot water Flush installation manual.

Set the Auto fill level

1. Make sure the bathtub is empty and the drain is closed.
2. In Service tool, open the tab Auto fill level.
3. Press the Start auto fill button to start the Auto fill calculation.
4. The bathtub fills to mid level and calculates what the low level should be.
5. Do not interfere with the bathtub during the filling.

Calibrate disinfection scale (if equipped)

(12 steps)

If the system has integrated disinfection, it is required to calibrate the disinfection scale.

1. Open the disinfection hatch and make sure the weight scale is unloaded.
2. Open the Service tool and go to the Disinfection tab.
3. Click the **Unloaded** button, and wait for it to turn green.
4. Place the calibrated weight on the weight scale.
5. Click the **Loaded** button, enter the value of the calibrated weight (kg or lb) and press OK.
6. Restart the bathtub (press and release the Emergency stop button).
7. Service tool restarts, close the pop-up window.
8. Read the value DIS WEIGHT in Service tool.
9. Check that the readout value is the same as the calibrated weight ± 20 gram (0.7 oz).
10. Remove the load from the load cell.
11. Check that the readout value is the same as 0g/0oz ± 20 gram (0.7 oz).
12. If the readout does not match the weight on scale go back to step 3 and repeat. (You might need to repeat a couple of times for initial calibration).

Instructions continue on the next page

Set disinfectant dilution

(15 steps)

1. Open the Service Tool and go to the Disinfection tab.
2. Select Custom in the disinfectant menu.
3. Set the dilution (see table below) and density value to the same as the disinfectant agent. Set the contact time to 2 minutes.

DISINFECTANT AGENT	DILUTION
Arjo Guard	10 ml/l
Arjo Clean	16 ml/l
Arjo CenKleen IV	15.6 ml/l
Arjo disinfectant cleanser IV	8 ml/l

4. Click the Save button.
5. Restart the bathtub (press and release the Emergency stop button).
6. Hold the Disinfection button for 2 s to activate the disinfection.
7. Wait for automatic disinfection of Hydromassage system to be performed (if applicable).
8. **If a Hydromassage bath (SBX06XXXXX or SBX07XXXXX):** Spray with the disinfection spray handle for at least 5 seconds.
If a non Hydromassage bath (SBX02XXXXX, SBX03XXXXX, SBX04XXXXX or SBX05XXXXX): Spray with the disinfection spray handle for at least 45 seconds.

9. Press the Disinfection button to activate contact time.
10. At the end of the contact time the system will flush the Hydromassage system with water (if applicable).
11. Press the Shower button and rinse off the disinfectant.
12. Press the Disinfection button to complete the disinfection cycle.
13. The disinfection complete icon is displayed if the disinfection cycle is successful.
If the disinfection cycle is not successful, the cancelled disinfection icon is displayed. Go back to step 5 and repeat a complete disinfection cycle.
Repeat up to 3-4 times if necessary.
14. Select the correct disinfectant agent in the Disinfection tab.
15. Click the Save button.

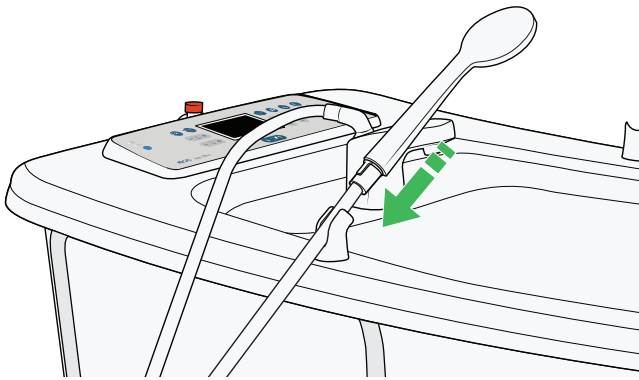


Figure 136

Calibrate MPA system (if equipped)

1. Make sure the drain is open.
2. Place the shower handle in the shower holder. See Figure 136.
3. Start the shower and let it run for 1+ minute on each shower flow (low/mid/high, if applicable). The MPA system calibrates automatically.
4. Turn off the shower.

Let the tub be inactive for another minute to let the system save the adjusted settings.

Attach the covers

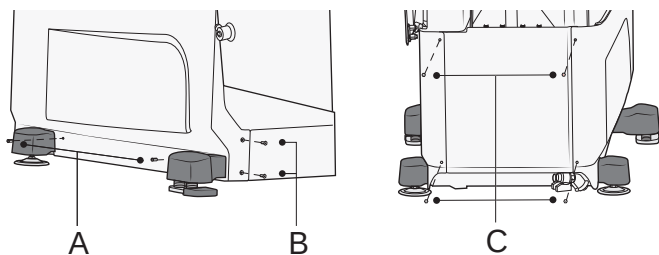


Figure 137

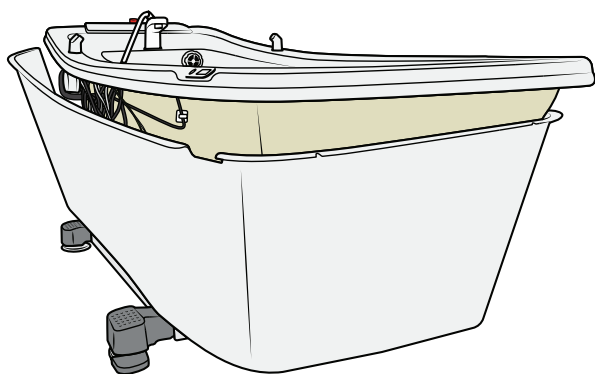


Figure 138

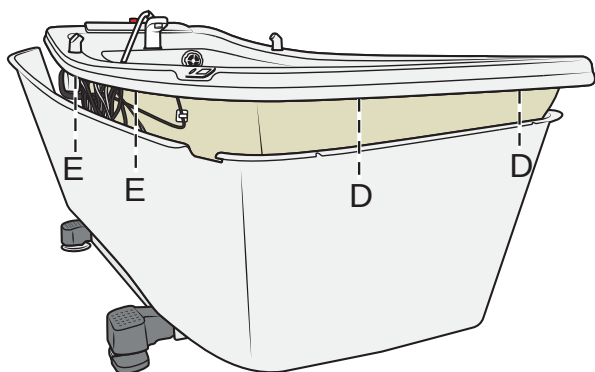


Figure 139

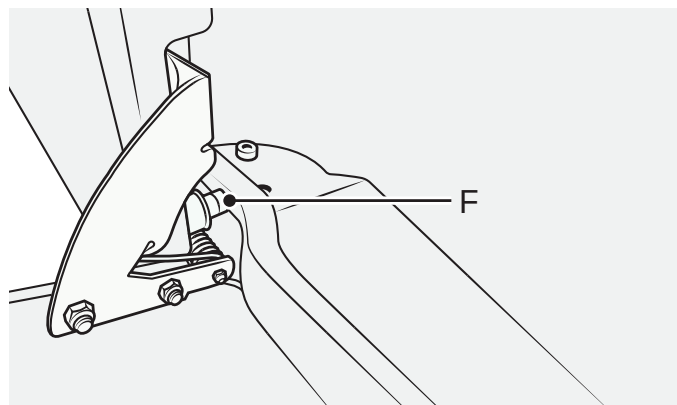


Figure 140

Inner service covers

1. Attach the inner side panels with the two screws (A) on the sides and the two screws (B) at the head end, then lift straight up. See Figure 137.
2. Raise the bathtub to mid level. At the foot end, attach the four screws holding the inner service cover (C). See Figure 137.

Outer service covers

17 steps

1. Position the outer cover around the bathtub on top of the bathtub feet. See Figure 138.
2. Strap the hatch open.
3. Lift the disinfection compartment side of the outer cover up from the feet and fasten the 2 nuts, just slightly.
4. Fasten the 2 nuts (A) on the head end, just slightly. See Figure 139.
5. Continue to fasten the 2 nuts (B), just slightly, on the opposite side of the disinfection compartment.
6. Fasten the 2 nuts temporarily on the foot end, just slightly.
7. Make sure the disinfection hatch hinge spacer (C) is in the correct position (on the outside of the compartment). See Figure 140.

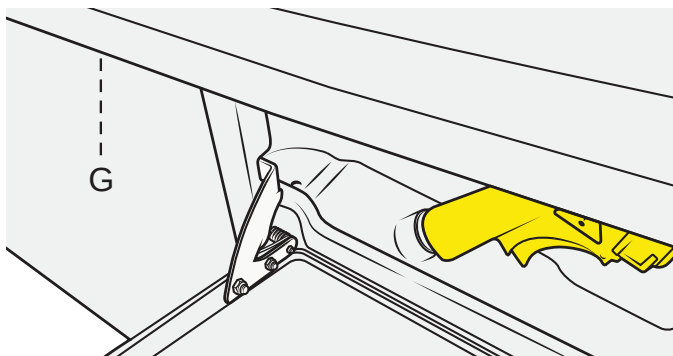


Figure 141

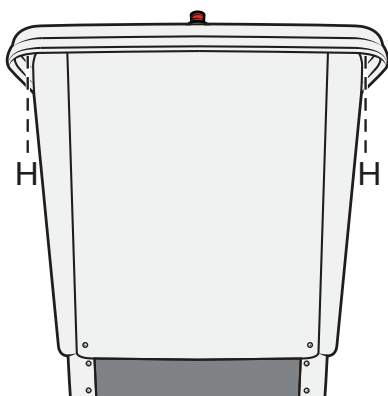


Figure 142

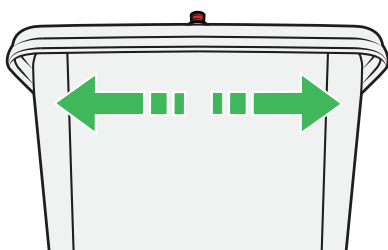


Figure 143

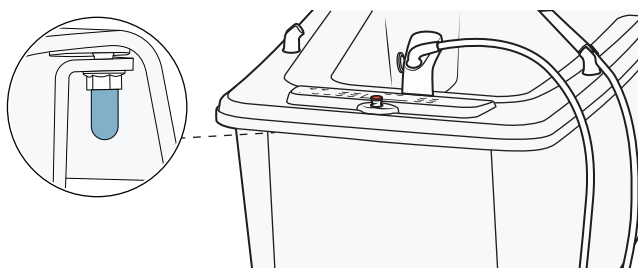


Figure 144

8. Tighten the nut (D), all the way, closest to the disinfection compartment. See Figure 141.
9. Tighten the remaining nuts all the way except for the two at the foot end.
10. Check again that the hatch closes fully and opens as intended after tightening all the nuts for the cover.
11. Remove the two nuts at the foot end.
12. Disconnect the additional Hot Water Flush Key assembly (if attached).
13. Connect the Hot Water Flush key assembly (if equipped) attached to the service cover and install the outer service cover and, then tighten the 4 nuts fully.
14. Check that the disinfection hatch closes fully.
If the hatch does not close fully:
 1. Loosen the two top screws to the service cover slightly and the screws (E) on each side holding the main cover that are closest to the foot end. See Figure 142
 2. Wiggle the cover left and right and back and forth, see Figure 143.
 3. Check again that the disinfection hatch closes fully.
 4. Tighten the screws all the way.
 5. Make sure the bathtub can move up and down without hindrance.
15. Attach the eight silicone caps on the screws under the rim. See Figure 144.
16. Test the Hot Water Flush function (if equipped) when all covers are installed.
17. Remove the protective tape covers on all feet.

Test of disinfectant system (if equipped)

Installing the disinfectant container (8 steps)

WARNING

To prevent injury, do not refill the disinfectant container due to danger of mixing different chemicals.

1. Put on protective gloves and glasses.
2. Open the disinfection hatch on the side of the tub.
3. Remove the lid of the disinfection container.
4. Place the disinfectant container on top of the bathtub.
5. Take out the disinfection suction part from the disinfection compartment and attach it to the disinfection container.

NOTE

Hose (B) length between disinfection bottle cap (C) and hose clamp (A) should be $480 \text{ mm} \pm 10 \text{ mm}$ ($24 \text{ in} \pm 0.4 \text{ in}$). See Figure 145.

6. Place the disinfection container on the scale tray. (Make sure that the hose is not pinched or twisted).
7. Attach the lock bracket and lock it.
8. Place the key in a safe place.

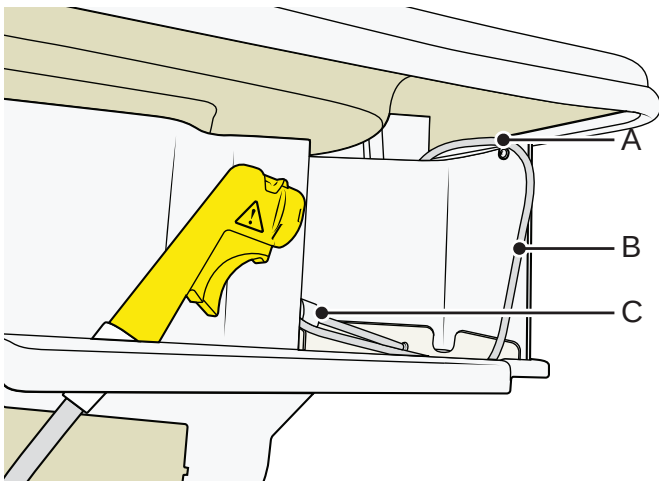


Figure 145

Finish installation



WARNING

Always disinfect the bathtub after completion of the service procedure. See IFU for disinfection instructions.



WARNING

Always check the battery status and function when performing Full feature functionality test.



WARNING

Remember to reset the Emergency stop button.
Auto Flush and battery charging are disabled when the Emergency stop button is pressed.



WARNING

Always place the shower handle in the holder when not in use.

CAUTION

Make sure moving cables are strapped in a bundle and can move without catching on the bathtub.

NOTE

Make sure shut-off valves are open after performed service.

NOTE

Leave the drain open after installation of the bathtub.

1. Perform Full feature functionality test on page 88.
2. If not successful, perform trouble shooting.
3. When Full feature functionality test is completed, attach the covers, see Attach the covers on page 84.
4. Test the Hot Water Flush Function, if equipped.
5. Clean and disinfect the bathtub according to IFU instructions.

Full feature functionality test

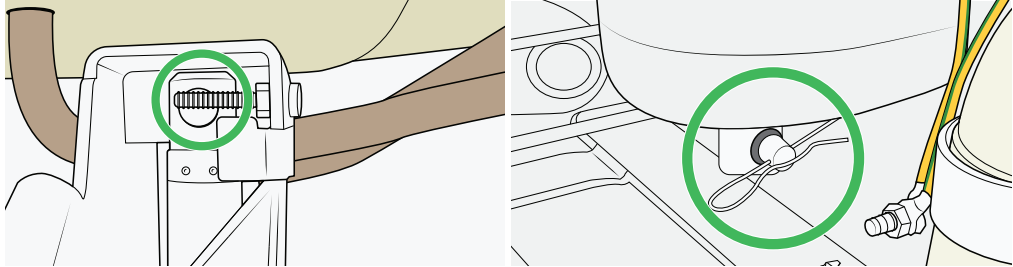
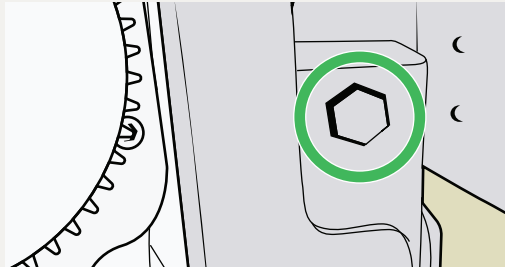
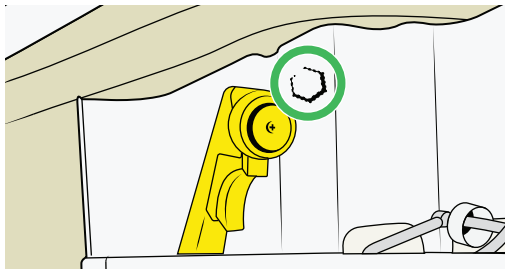
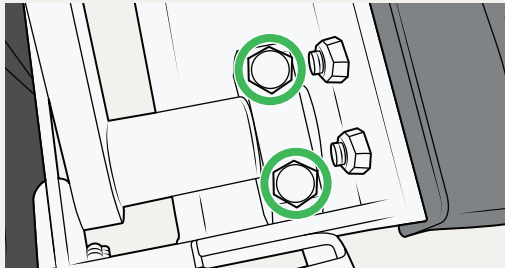
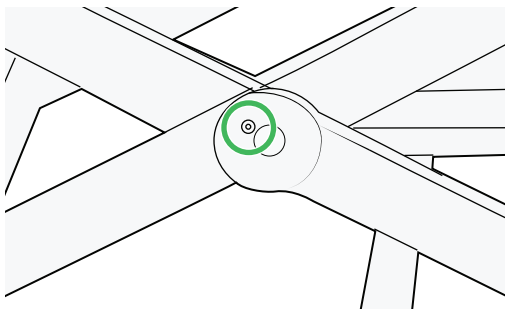
Function	Activation	Requirements for approval
Button functionality	Start Service tool and go to the Control Panel tab. Press the buttons.	All button given the OK  in Service tool.
Fill flow intensity	Press fill button then press Water flow button.	Water reaches intended water flow level. See filling times chart in Technical specifications on page 91.
Shower flow intensity	Press shower button then press Water flow button.	Shower reaches intended water flow level. See filling times chart in Technical specifications on page 91.
Check disinfection system	Start disinfection and complete a full disinfection cycle.	Green disinfection check mark completion in the display.
Hydromassage, all levels of intensity and the two pulse settings. Check that Hydromassage stops when removing the inlet strainer.	1. Fill bathtub to mid level sensor. 2. Press the Hydromassage button. 3. Wait 10 seconds to make sure it runs. 4. Test all levels of intensity. 5. Press the Hydromassage button to turn off.	Hydromassage starts and stops and reaches intended level of intensity and intended pulse setting. Hydromassage stops when the inlet strainer is removed.
Hydrosound, all levels of intensity. Check that Hydrosound stops when the guard is removed.	1. Fill bathtub to mid level sensor. 2. Press the Hydrosound button. 3. Wait 10 seconds to make sure it runs. 4. Test all levels of intensity. 5. Press the Hydrosound button to turn off.	Hydrosound starts and stops and reaches intended intensity.
Battery function (disconnect mains).	Press up and down button. Start the shower. Cover light sensor to turn on ambient light.	Complete one cycle up and down with HI/LOW. Shower working. Ambient lighting turning on (if equipped).
Bluetooth® wireless technology connection and sound.	Press the Music button and toggle to Bluetooth® wireless technology . For pairing see Symbliss Bath IFU	Bathtub connecting to external device and plays sound.
Volume	Play sound through Bluetooth® wireless technology and integrated tracks. Press the volume buttons on the bathtub and the mobile device.	Volume can be adjusted up and down.
LED lights	Press Underwater lights button.	Lights are turning on and off.

Table continues on the next page

Function	Activation	Requirements for approval
Light strip	Press Ambient light button. Press multiple times for different pre-settings.	Light strip turns on and off and the different settings are shown.
Function lock	Press the Lock button and then press the other function buttons.	No function should start when the function lock is engaged. Only the up and down button on the main control panel should work.
Temperature adjustment shower	Press shower button and adjust temperature. Green line under temperature when set temperature is reached.	Water changes temperature when adjusting it, measure with an external thermometer. The changes shown on the display should match the external thermometer. Change from 25°C to 41°C (77°F to 106°F).
Temperature adjustment fill	Press fill button and adjust temperature. Green line under temperature when set temperature is reached.	Water changes temperature when measured with an external thermometer and the changes shown on the display is the same as the external thermometer. Change from 25°C to 43°C (77°F to 109°F).
Anti pinch	Place the safety bolt into one of the locking holes in the scissor lift.	Bathtub shall stop when lowered against the safety bolt and the actuator should not move when the lower bathtub button is pressed.
Emergency stop	Press the Emergency stop.	No functions should be available (remember to reset).

Final check:

Check	Requirements for approval
Check disinfection lid and hinges.	Lid should open and stay closed, when closed. Make sure the lid engages with the magnet when open.
Check bolts and screws holding the panels in place.	All bolts and screws should be securely fastened.
Make sure moving cables are strapped in a bundle and are able to move without catching on the bathtub. Test with a full cycle, the full length of the actuator.	Cables moving up and down with the bathtub without catching anywhere.
Make sure guard for Hydrosound is in place, if equipped.	Hydrosound guard should be securely fastened in the bathtub.
Make sure Hydromassage inlet strainer and outlet piece are in place, if equipped.	Inlet strainer and outlet piece are in place.
Make sure the curtain position is correct and that it moves up and down with the bathtub.	Curtain moving up and down with the bathtub.
Check actuator status. Check in Service tool how many amp hours the actuator have been running.	Bathtub is moving up and down without squeaking. Bathtub should not sink after being raised. If sinking more than 10 mm (0.4 in) replace actuator.

Check	Requirements for approval
Check critical joints.	Critical joints and bolts, shall be securely fastened. Fixation bolts for actuator, top and bottom. 
	Fixation bolt, on the left side. 
	Fixation bolt on the right side (behind disinfection compartment). 
	Fixation bolts scissor lift, left and right side. 
	Scissor lift locking screw, left and right side. 

Technical specifications

PRODUCT MODEL	
SBX ¹ X ² X ³ X ⁴ X ⁵ X ⁶ X ⁷ X ⁸ Defines the different configurations of the bathtub.	X¹ – Tub Length S = Standard tub 2100 mm L = Long tub 2400 mm X²X³ – Treatment 01 = Still bath 02 = Still bath + Cleaning and disinfection system 03 = Still bath + Cleaning and disinfection system + Music and lighting 04 = Hydrosound + Cleaning and disinfection system 05 = Hydrosound + Cleaning and disinfection system + Music and lighting 06 = Hydromassage + Cleaning and disinfection system 07 = Hydromassage + Cleaning and disinfection system + Music and lighting X⁴ – Hot water flush 0 = No 1 = Yes X⁵X⁶ – Country specific X⁷ X⁸ – Accessories 00 = No accessories 01 = Adjustable footrest

GENERAL	
Maximum patient weight (in tub)	272 kg (600 lb)
Maximum load (patient + water)	Standard tub: 446 kg (983 lb) Long tub: 531 kg (1171 lb)
Hydrosound energy level	Peak value (1 m from transducer): 114 mW/cm ² Average value (0.5-1 m from transducer): 56 mW/cm ²

WEIGHT	
Bath model, Standard tub, fully equipped	215 kg (474 lb)
Bath model, Long tub, fully equipped	235 kg (518 lb)
Package standard complete incl. Standard tub and accessories	320 kg (705 lb)
Package long complete incl. Long tub and accessories	355 kg (783 lb)

WATER	
Water content up to Auto fill level low	Standard tub: 175 l (46 US gal) Long tub: 215 l (57 US gal)
Water content up to Auto fill level mid	Standard tub: 260 l (69 US gal) Long tub: 315 l (83 US gal)
Water content up to Auto fill level high	Standard tub: 330 l (87 US gal) Long tub: 400 l (106 US gal)

Table continues on the next page

WATER	
Water content up to Overflow level	Standard tub: 405 l (107 US gal) Long tub: 490 l (129 US gal)
Maximum mixed water temperature from fill spout. (With stable incoming water temperature and pressure)	43 °C +0/-1 °C (109 °F +0/-2 °F)
Maximum mixed water temperature from shower handle and integrated disinfection handle. (With stable incoming water temperature and pressure)	41 °C +0/-1 °C (106 °F +0/-2 °F)
Water set temperature range from fill spout	25-43 °C (77-109 °F)
Water set temperature range from shower handle and integrated disinfection handle	25-41 °C (77-106 °F)
Thermometer range	5-80 °C (41-176 °F)
Thermometer display resolution	0.5 °C (1 °F)
Accuracy of thermometer (fill and shower)	5-29 °C +/-2 °C (41-84 °F +/-4 °F) 30-50 °C +/-1 °C (86-122 °F +/-2 °F) 51-80 °C +/-2 °C (123-176 °F +/-4 °F)
Accuracy of thermometer (bath water) at room temperature	30-50 °C +/-2 °C (86-122 °F +/-4 °F)
Filling time up to auto fill level low (EU, NL and GB version) with 3 bar (300kPa/43.5psi) dynamic pressure on both inlets Hot water 60°C (140°F), Cold water 15°C (59°F) Mixed water 37°C (99°F) out from fill spout, maximum flow setting.	Standard tub: 3 min 45 sec Long tub: 4 min 20 sec
Filling time up to auto fill level low (US version) with 3 bar (300kPa/43.5psi) dynamic pressure on both inlets Hot water 60°C (140°F), Cold water 15°C (59°F) Mixed water 37°C (99°F) out from fill spout, maximum flow setting.	Standard tub: 4 min 40 sec Long tub: 5 min 5 sec
Filling time up to auto fill level low (AU version) with 3 bar (300kPa/43.5psi) dynamic pressure on both inlets Hot water 60 °C (140 °F), Cold water 15 °C (59 °F) Mixed water 37 °C (99 °F) out from fill spout, maximum flow setting.	Standard tub: 4 min 20 sec Long tub: 4 min 48 sec
Filling time up to auto fill level mid (EU, NL and GB version) with 3 bar (300kPa/43.5psi) dynamic pressure on both inlets, Hot water 60°C (140°F), Cold water 15°C (59°F) Mixed water 37°C (99°F) out from fill spout, maximum flow setting.	Standard tub: 5 min 30 sec Long tub: 6 min 20 sec
Filling time up to auto fill level mid (US version) with 3 bar (300kPa/43.5psi) dynamic pressure on both inlets Hot water 60°C (140°F), Cold water 15°C (59°F) Mixed water 37°C (99°F) out from fill spout, maximum flow setting.	Standard tub: 6 min 50 sec Long tub: 7 min 25 sec
Filling time up to auto fill level mid (AU version) with 3 bar (300kPa/43.5psi) dynamic pressure on both inlets Hot water 60 °C (140 °F), Cold water 15 °C (59 °F) Mixed water 37 °C (99 °F) out from fill spout, maximum flow setting.	Standard tub: 6 min 20 sec Long tub: 7 min 5 sec

WATER	
Filling time up to auto fill level high (EU, NL and GB version) with 3 bar (300kPa/43.5psi) dynamic pressure on both inlets Hot water 60°C (140°F), Cold water 15°C (59°F) Mixed water 37°C (99°F) out from fill spout, maximum flow setting.	Standard tub: 6 min 50 sec Long tub: 7 min 50 sec
Filling time up to auto fill level high (US version) with 3 bar (300kPa/43.5psi) dynamic pressure on both inlets Hot water 60°C (140°F), Cold water 15°C (59°F) Mixed water 37°C (99°F) out from fill spout, maximum flow setting.	Standard tub: 8 min 35 sec Long tub: 9 min 15 sec
Filling time up to auto fill level high (AU version) with 3 bar (300kPa/43.5psi) dynamic pressure on both inlets Hot water 60 °C (140 °F), Cold water 15 °C (59 °F) Mixed water 37 °C (99 °F) out from fill spout, maximum flow setting.	Standard tub: 8 min 35 sec Long tub: 9 min 15 sec
Emptying time from auto fill level high, tub in low position (EU, NL and GB version)	Standard tub: 8 min 15 sec Long tub: 10 min 20 sec
Emptying time from auto fill level high, tub in low position (US version)	Standard tub: 6 min 35 sec Long tub: 8 min 20 sec
Emptying time from auto fill level high, tub in low position (AU version)	Standard tub: 8 min 5 sec Long tub: 9 min 50 sec
Emptying time from auto fill level high, tub in highest position (EU, NL and GB version)	Standard tub: 5 min 45 sec Long tub: 7 min 15 sec
Emptying time from auto fill level high, tub in highest position (US version)	Standard tub: 5 min 20 sec Long tub: 6 min 40 sec
Emptying time from auto fill level high, tub in highest position (AU version)	Standard tub: 5 min 40 sec Long tub: 6 min 50 sec

SOUND LEVELS	
Sound level at raising/lowering Hi/Lo - No Load	1 m from source: max 45dBA 2 m from source: max 50dBA
Sound level at raising/lowering Hi/Lo - Maximum Load	1 m from source: max 46dBA 2 m from source: max 50dBA
Sound level Hydromassage – Minimum effect, Water to auto fill level mid	1 m from source: max 37dBA 2 m from source: max 39dBA
Sound level Hydromassage – Maximum effect, Water to auto fill level mid	1 m from source: max 55dBA 2 m from source: max 59dBA
Sound level Fill function – Minimum flow, Water to auto fill level mid	1 m from source: max 57dBA 2 m from source: max 62dBA
Sound level Fill function – Maximum flow, Water to auto fill level mid	1 m from source: max 69dBA 2 m from source: max 73dBA

Table continues on the next page

SOUND LEVELS

Sound level Shower function, (EU, NL,GB and AU version) – Minimum flow (water to auto fill level mid, shower head in holder)	1 m from source: max 59dBA 2 m from source: max 62dBA
Sound level Shower function, (EU, NL, GB and AU version) – Maximum flow (water to auto fill level mid, shower head in holder)	1 m from source: max 64dBA 2 m from source: max 67dBA
Sound level Shower function, (US version) – Minimum flow (water to auto fill level mid, shower head in holder)	1 m from source: max 59dBA 2 m from source: max 62dBA
Sound level Shower function, (US version) – Maximum flow (water to fill level mid, shower head in holder)	1 m from source: max 64dBA 2 m from source: max 67dBA

MOTIONS

Standard Tub

Stroke	380 mm
Lifting time tub - No load	22 ±5 s
Lifting time tub - Water to maximum level	32 ±5 s
Lowering time tub - No load	21 ±5 s
Lowering time tub - Water to maximum level	25 ±5 s

Long Tub

Stroke	380 mm
Lifting time Tub - No Load	25 ±5 s
Lifting time Tub - Water to maximum level	34 ±5 s
Lowering time Tub- No Load	25 ±5 s
Lowering time Tub- Water to maximum level	29 ±5 s

OTHER

Power consumption, all Hydromassage configuration (Maximum)	850 VA
Power consumption (Maximum)	600 VA
Degree of protection – Electrical shock	Type B

IP CLASSIFICATION

Bath protection Class	IPX4
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DUTY CYCLE

Max duty cycle, Hi-Lo	10 % (2 min on, 18 min off)
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DUTY CYCLE	
Max duty cycle, Hydromassage	50 % (15 min on, 15 min off)
Max duty cycle, Hydrosound	50 % (15 min on, 15 min off)

BATTERY	
Battery Capacity	5.4 Ah
Battery Voltage	12 V
Battery replacement	Battery can only be changed by qualified service personnel with the use of a tool.

FUSES POWER BOX	
Fuse F1	5A – 220/230V (Littelfuse 215-series)
Fuse F1	8A – 100/110/120V (Littelfuse 215-series)
Fuse F1 (Music and lighting version)	10A – 100/110/120V (Littelfuse 215-series)
Fuse F2	10A (Littelfuse 215-series)
Fuse F2 (Music and lighting version)	16A (Littelfuse 216-series)
Fuse F3	16A (Littelfuse 216-series)

FUSES INVERTER BOX (ONLY HYDROMASSAGE VERSIONS)	
Fuse F4	5A – 220/230V (Littelfuse 215-series)
Fuse F4	6.3A – 100/110/120V (Littelfuse 215-series)
Fuse F5	2.5A – 100/110/120V (Littelfuse 215-series)

OTHER FUSES	
Battery Fuse	10A (Littelfuse 215-series)
Servo Fuse (HWF variants)	2A (Littelfuse 215-series)

POWER SUPPLY CORD	
Power supply cord replacement (non-detachable)	Shall only be replaced by qualified service personnel.

SITE REQUIREMENTS - FLOOR	
Floor load, Standard tub	755 kg/m ²
Floor load, Long tub	645 kg/m ²
Floor pressure, Standard tub	57 N/cm ²
Floor pressure, Long tub	60 N/cm ²
Maximum floor inclination	1:50 (1.15°)

Table continues on the next page

SITE REQUIREMENTS - FLOOR

Floor slip resistance	Group B (<18 deg)
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MAINS DISCONNECTION DEVICE

Mains transient voltage	4kV
Creepage distance	Comply with: IEC 61058-1, UL 61058-1, CAN/CSA-C22.2 NO 61058-1
Air clearance	Comply with: IEC 61058-1, UL 61058-1, CAN/CSA-C22.2 NO 61058-1
Installation of the equipment	The installation of the equipment shall be in accordance with the National Electrical Code, Canadian Electrical Code and other Local Electrical Code.

MAINS SUPPLY FOR AUSTRALIA, EUROPE, INDIA, NEW ZEALAND, SINGAPORE AND UNITED ARAB EMIRATES

Voltage	230 V
Frequency	50 Hz
Fuse	6A C Miniature Circuit Breaker
Interrupting rating	Minimum 1500 A
Number of phases	Single phase AC
Protective earth	Yes
Potential equalisation	Yes
Ground fault interrupter	10mA

MAINS SUPPLY FOR USA AND CANADA

Voltage	120 V
Frequency	60 Hz
Fuse	13 A C Miniature Circuit Breaker
Interrupting rating	Minimum 10 000 A
Number of phases	Single phase AC
Protective earth	Yes
Potential equalisation	Yes
Ground fault interrupter	5 mA

MAINS SUPPLY FOR JAPAN

Voltage	100 V
Frequency	50/60 Hz
Fuse	13 A C Miniature Circuit Breaker

MAINS SUPPLY FOR JAPAN	
Interrupting rating	Minimum 5000 A
Number of phases	Single phase AC
Protective earth	Yes
Potential equalisation	Yes
Ground fault interrupter	10 mA

MAINS SUPPLY FOR TAIWAN	
Voltage	110 V
Frequency	60 Hz
Fuse	13 A C Miniature Circuit Breaker
Interrupting rating	Minimum 5000 A
Number of phases	Single phase AC
Protective earth	Yes
Potential equalisation	Yes
Ground fault interrupter	10 mA

MAINS SUPPLY FOR HONG KONG	
Voltage	220 V
Frequency	50 Hz
Fuse	6 A C Miniature Circuit Breaker
Interrupting rating	Minimum 5000 A
Number of phases	Single phase AC
Protective earth	Yes
Potential equalisation	Yes
Ground fault interrupter	10 mA

DRAIN REQUIREMENT	
Flow capacity (minimum)	100 l/minute, (26 US gal/minute)
Position	Floor, wall

WATER SUPPLY	
Connect with shut off valves between unit and supply net, minimum through Ø 16 mm.	

Table continues on the next page

BACKFLOW PREVENTION DEVICE (INSTALLED BETWEEN FACILITY WATER SUPPLY AND BATHTUB)

Backflow prevention device (Netherlands)	Type: EA (Verifiable single check valve)
Backflow prevention device (USA and Canada)	Type: Dual check valve
Backflow prevention device (Australia)	Type: Dual check valve

COLD WATER

Connection	¾" B.S.P male
Upper limit dynamic pressure	6 bar (600kPa/87psi)
Upper limit dynamic pressure (Australia)	5 bar (500kPa/72.5psi)
Recommended dynamic pressure	3 bar (300kPa/43.5psi)
Lower limit dynamic pressure	1 bar (100kPa/14.5psi)
Lower limit dynamic pressure (USA and Canada)	2.5 bar (250kPa/36.3psi)
Lower limit temperature	5 °C (41 °F)
Upper limit temperature	20 °C (68 °F)

HOT WATER

Connection	¾" B.S.P male
Upper limit dynamic pressure	6 bar (600kPa/87psi)
Upper limit dynamic pressure (Australia)	5 bar (500kPa/72.5psi)
Recommended dynamic pressure	3 bar (300kPa/43.5psi)
Lower limit dynamic pressure	1 bar (100kPa/14.5psi)
Lower limit dynamic pressure (USA and Canada)	2.5 bar (250kPa/36.3psi)
Lower limit temperature	55 °C (131 °F)
Upper limit temperature	80 °C (176 °F)
Upper limit temperature (Australia)	65 °C (149 °F)

PHYSICAL CHEMICAL DEMANDS	
The water quality shall comply with the drinking water directive 2020/2184.	
pH range	pH 7.5 – pH 9.0
Conductivity (Min.)	More than 100 µS/cm
Chloride (Max.)	Less than 250 mg/L (Less than 950mg/US gal)
Hardness	Less than 20 °dH
Alkalinity	60-200 mg/l HCO ₃ (230-760mg/US gal HCO ₃)

USE ENVIRONMENT	
Usage Temperature Range (Ambient)	+10 °C (50 °F) to +40 °C (104 °F)
Air Humidity	15 % - 93 %
Atmospheric Pressure	700hPa to 1060hPa

TRANSPORT	
Temperature (Ambient)	-20 °C (-4 °F) to +70 °C (158 °F)
Air Humidity	10 % - 80 % at 20 °C (68 °F)
Atmospheric Pressure	500hPa to 1100hPa

STORAGE	
Temperature (Ambient)	+5 °C (41 °F) to +50 °C (122 °F)
Air Humidity	10 % - 80 % at 20 °C (68 °F)
Atmospheric Pressure	500hPa to 1100hPa

END OF LIFE DISPOSAL	
Bathtub	Please dispose of old products in an environmentally neutral way. This product contain valuable, recyclable materials, which should be recycled. Please therefore dispose of old products via suitable collection systems. 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 regulations.
Battery	All batteries in the product shall be removed and recycled separately. Batteries are to be disposed in accordance with national or local regulations.
Disinfection liquids	Refer to manufacturer's labelling for the disinfection liquid for correct disposal.
Package	The packaging should be recycled according to national or local regulations. The packaging is designed to be separated into parts in respective materials such as wood, cardboard, metal and cell foam.

Table continues on the next page

ALLOWED COMBINATIONS		
CATEGORY	PRODUCT	SPREADER BAR
Bath chair	Symbliss bath chair	-
	Alenti	-
Passive floor lifts	Maxi Move	700-19326 (2-point loop) 700-19331 (4-point loop) 700-19301 (Combi small manual DPS) 700-19306 (Combi medium manual DPS) 700-19311 (Combi medium powered DPS) 700-19303 (Loop medium combi)
	Maxi 500	700-05500 (2-point loop) 700-05505 (2-point loop with scale) 700-05501 (2-point loop with anti-sway) 700-05502 (2-point loop with anti-sway & scale) 700-05503 (2-point loop with anti-sway & scale class III) 700-19342-BOX (Manual DPS) 700-19341-BOX (Manual DPS with scale) 700-19343 (Manual DPS with anti-sway) 700-19344 (Manual DPS with anti-sway & scale) 700-19345 (Manual DPS with anti-sway & scale class III)
Ceiling lifts	Maxi Sky 2	700-19420 (2-hook small) 700-19415 (2-hook medium) 700-19430 (4-hook) 700-19475 (Manual flat DPS) 700-19480 (Manual open DPS) 700-19350 (PDPS medium)
	Maxi Sky 2 Plus	700-31240 (Dual mode. Sbar MS2 Plus) 700-19415 (Single mode. Sbar MS2 Plus)
	Maxi Sky 600	700-05443 (4-point bariatric) 700-19200 (4-point flat DPS) 700.19000 (4-point powered DPS) 700-05461-BOX (2-point) 700.19340 (DPS manual open std Maxi sky)
	Maxi Sky 1000	700-05441 (4-point carry bar) 700-05401-BOX (2-point carry bar)
No other combinations have been assessed by Arjo (manufacturer). The facility shall assess any other combination by performing compatibility testing themselves, hereby transferring the responsibility for a safe equipment combination to the facility.		

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AUSTRALIA

Arjo Australia Pty Ltd 4/2
Southridge St, Eastern Creek NSW 2766
Phone: 1800 072 040
Email: customerservice-au@arjo.com

BELGIQUE / BELGIË

Arjo Belgium
Evenbroekveld 16
9420 Erpe-Mere
Phone: +32 (0) 53 60 73 80
Fax: +32 (0) 53 60 73 81
E-mail: info.belgium@arjo.com

BRASIL

Arjo Brasil Equipamentos Médicos Ltda
Avenida Piraiba, 352, Sala 18
Centro Comercial Jubran - Barueri/SP –
Brazil
CEP: 06460-121
Phone: 55-11-3588-5088
E-mail: vendas.latam@arjo.com
E-mail: servicios.latam@arjo.com

CANADA

Arjo Canada Inc.
90 Matheson Boulevard West
Suite 350
CA-MISSISSAUGA, ON, L5R 3R3
Tel/Tél: +1 (905) 238-7880
Free: +1 (800) 665-4831
Fax: +1 (905) 238-7881
E-mail: info.canada@arjo.com

ČESKÁ REPUBLIKA

Arjo Czech Republic s.r.o.
Škrétova 490/12
120 00 Praha 2
Czech Republic
Phone No: +420225092307
E-mail: info.cz@arjo.com

DANMARK

Arjo A/S
Industriparken 21A
2750 BALLERUP, Denmark
Tel: +45 49 13 84 86
Fax: +45 49 13 84 87
E-mail: dk_kundeservice@arjo.com

DEUTSCHLAND

Arjo GmbH
Peter-Sander-Strasse 10
DE-55252 MAINZ-KASTEL
Tel: +49 (0) 6134 186 0
Fax: +49 (0) 6134 186 160
E-mail: info-de@arjo.com

ESPAÑA

ARJO IBERIA S.L.
Poligono Can Salvatella
c/ Cabanyes 1-7
08210 Barberà del Valles
Barcelona - Spain
Telefono 1: +34 900 921 850
Telefono 2: +34 931 315 999

FRANCE

Arjo France
10 Rue Denis Papin
CS 62535
59652 VILLENEUVE D'ASCQ CEDEX
Tél: +33 (0) 3 20 28 13 13
Fax: +33 (0) 3 20 28 13 14
E-mail: info.france@arjo.com

HONG KONG

Arjo Hong Kong Limited
Room 411-414, 4/F, Manhattan Centre,
8 Kwai Cheong Road, Kwai Chung, N.T.,
HONG KONG
Tel: +852 2960 7600
Fax: +852 2960 1711

ITALIA

Arjo Italia S.p.A.
Via Giacomo Peroni 400-402
IT-00131 ROMA
Tel: +39 (0) 6 87426211
Fax: +39 (0) 6 87426222
E-mail: Italy.promo@arjo.com

MIDDLE EAST

Arjo Middle East FZ-LLC
Office 908, 9th Floor,
HQ Building, North Tower,
Dubai Science Park,
Al Barsha South
P.O. Box 11488, Dubai,
United Arab Emirates
Direct +971 487 48053
Fax +971 487 48072
Email: Info.ME@arjo.com

NEDERLAND

Arjo Nederland BV
Biezenwei 21
4004 MB TIEL
Postbus 6116
4000 HC TIEL
Tel: +31 (0) 344 64 08 00
Fax: +31 (0) 344 64 08 85
E-mail: info.nl@arjo.com

NEW ZEALAND

Arjo Ltd
34 Vestey Drive
Mount Wellington
NZ-AUCKLAND 1060
Tel: +64 (0) 9 573 5344
Free Call: 0800 000 151
Fax: +64 (0) 9 573 5384
E-mail: nz.info@Arjo.com

NORGE

Arjo Norway AS
Olaf Helset's vei 5
N-0694 OSLO
Tel: +47 22 08 00 50
Faks: +47 22 08 00 51
E-mail: no.kundeservice@arjo.com

ÖSTERREICH

Arjo Austria GmbH
Lemböckgasse 49 / Stiege A / 4.OG
A-1230 Wien
Tel: +43 1 8 66 56
Fax: +43 1 866 56 7000

POLSKA

Arjo Polska Sp. z o.o.
ul. Ks Piotra Wawrzyniaka 2
PL-62-052 KOMORNIKI (Poznań)
Tel: +48 691 119 999
E-mail: arjo@arjo.com

PORTUGAL

Arjo em Portugal
MAQUET Portugal, Lda.
(Distribuidor Exclusivo)
Rua Poeta Bocage n.º 2 - 2G
PT-1600-233 Lisboa
Tel: +351 214 189 815
Fax: +351 214 177 413
E-mail: Portugal@arjo.com

SUISSE / SCHWEIZ

Arjo Switzerland AG
Zelglimatte 3 / Haus H
6260 Reiden
Switzerland
Tél/Tel: +41 (0) 61 337 97 77
Fax: +41 (0) 61 311 97 42

SUOMI

Arjo Scandinavia AB
Riihitontuntie 7 C
02200 Espoo
Finland
Puh: +358 9 6824 1260
E-mail: Asiakaspalvelu.finland@arjo.com

SVERIGE

Arjo International HQ
Hans Michelsensgatan 10
SE-211 20 MALMÖ
Tel: +46 (0) 10 494 7760
Fax: +46 (0) 10 494 7761
E-mail: kundservice@arjo.com

UNITED KINGDOM

Arjo UK and Ireland
Houghton Hall Park
Houghton Regis
UK-DUNSTABLE LU5 5XF
Tel: +44 (0) 1582 745 700
Fax: +44 (0) 1582 745 745
E-mail: sales.admin@arjo.com

USA

Arjo Inc.
2349 W Lake Street Suite 250
US-Addison, IL 60101
Tel: +1 (630) 307-2756
Free: +1 (800) 323-1245
Fax: +1 (630) 307 6195
E-mail: us.info@arjo.com

JAPAN

Arjo Japan K.K.
東京都港区虎ノ門三丁目7番8号
ランディック第2 虎ノ門ビル9 階
Tel: +81 (0)3-6435-6401
Fax: +81 (0)3-6435-6402
E-mail: info.japan@arjo.com

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.



ArjoHuntleigh AB
Hans Michelsensgatan 10
211 20 Malmö, Sweden
www.arjo.com

arjo

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