



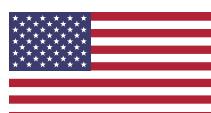
KBL



PRODUCT LINE

K9S

TANNING DEVICE ASSEMBLY INSTRUCTIONS



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ORIGINAL ASSEMBLY INSTRUCTIONS

Version: TD-M-K9-en-us

Date: 01/2024

Item no: 0100036779

MANUFACTURER

KBL GmbH

Ringstraße 24-26 · 56307 Dernbach · Germany

DISTRIBUTED BY (CONTACT)

Specified in operating instructions

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1. General information

1.1 About these instructions

This manual is intended for use by

- studio operator,
- qualified, trained and authorized service technicians.

Any person handling, mounting or servicing this tanning device must have read and understood these instruction. Keep this manual ready to hand at all times.

1.2 Safety signs



This symbol indicates that general hazards exist for the human health.



This symbol indicates that due to electrical tensions hazards exist to the human health.



This symbol indicates that due to falling loads hazards exist to the human health.



This symbol indicates the danger of pinching.
When closing and opening panels and covers, you can pinch your hands.



This symbol indicates the danger of burns from hot lamps and housing parts.
If the tanning device was operated before being opened, lamps and housing parts may be hot.



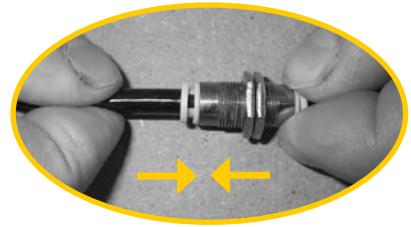
This symbol indicates that damages may occur at the tanning device, at the material or at the environment.



Danger due to leakages.

The tanning device can be damaged by leaking connections.

- Slide the plastic tube up to the stop into the quick connector socket.



1.2.1 IMPORTANT INFORMATION



This symbol does not identify safety notices, but states information for a better understanding.

1.3 Signal words



- Death or serious injury is imminent.



- Death or serious injury is possible.



- Moderate or minor injury is possible.

1.4 Definitions

STUDIO OPERATOR

People who provide tanning devices to users on a commercial basis. The studio operator is trained to operate and maintain the tanning device. He is responsible for the proper operation of the tanning device as well as for compliance with the maintenance intervals.

QUALIFIED, TRAINED AND AUTHORIZED

SERVICE TECHNICIAN

Qualified and safety-trained specialist personnel of the manufacturer, or an outside company trained and authorized by the manufacturer for the installation and maintenance of KBL tanning devices.

1.5 Transport

	WARNING Overturning load Danger of being crushed by heavy parts of the equipment. <ul style="list-style-type: none">• Maintain the safety distance to the transport machine.• Do not walk under the load.• Wear safety shoes.
---	---

TRANSPORT BY FORKLIFT TRUCK

	During transport the tanning device may be damaged when using forklift forks that are too short. <ul style="list-style-type: none">• Use only sufficiently long forks (Minimum length 1.8m / 70,9").
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The tanning device is mounted on a pallet.

- Insert the forks carefully into the openings of the pallet.
- Lift the load by a few centimeters.
- Transport the load carefully to the place of installation.

OTHER MODES OF TRANSPORT

If a forklift truck cannot be used for transport, the tanning device must be partially disassembled and the parts must be transported individually to the place of installation, e.g. using a dolly. Depending on the weight of the components, lifting them might require several people.

2. Safety notes

2.1 General safety advice



WARNING

No modification of this equipment is allowed.

- Follow all instructions given in this manual. In addition to that, observe all applicable statutory provisions and regulations, also those applicable in the country of operation.
- The tanning device may only be installed and assembled by qualified, trained and authorized service technicians.
- Observe all danger signals and safety signs attached to the equipment.
- Safety signs must not be removed, and safety appliances must not be disabled.
- The tanning device may only be operated when in perfect working condition.
- Never operate the tanning device with the outer covering removed or with the acrylic panes removed.
- Pay attention to the load limit of the bed pane (tanning bed devices only).
- The bed must only be opened with bed pane folded down.
- The canopy is not designed to carry additional loads. In particular, during installation the canopy must not be charged with additional loads.
- This tanning device must be operated with an external timer that is listed in compliance with UL 917.

If, at any point, you determine that the ESSENTIAL PERFORMANCE of the tanning device has been impaired (due to electro-magnetic interference or other causes), then terminate installation / operation and consult the factory before continuing.

Before carrying out any work, the tanning device must be disconnected from the mains voltage.



! DANGER

Live parts

Risk of death or fatal injury due to electric shock when touching live parts.

- Switch neutral
- Secure against reconnection
- Check for neutrality
- Ground and short-circuit
- Cover or shield any adjacent live parts or components



! CAUTION

Hot device parts

Danger of burns from hot lamps and housing parts. If the tanning device was operated before being opened, lamps and housing parts may be hot.

- Wait until the tanning device has cooled down.



! CAUTION

Danger of pinching

When assembling heavy components, you can pinch your fingers or hands.

- Wear assembly gloves.
- Be careful when handling heavy components.

3. Installation site & Dimensions

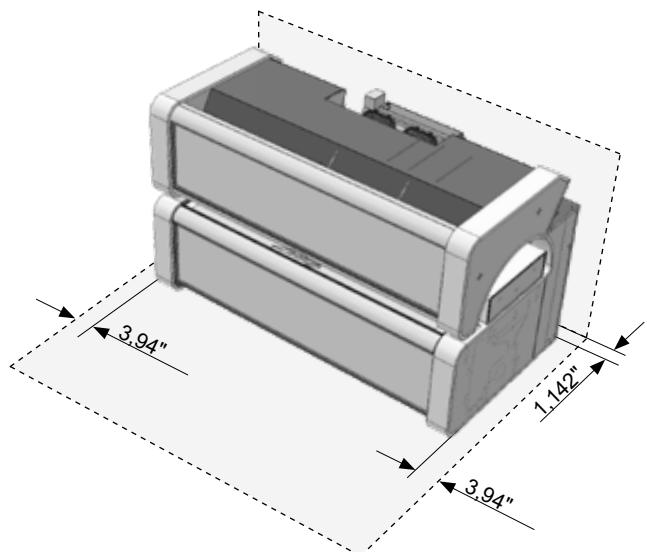
In dry rooms (booths) with sufficient airing and ventilation.

- Even floor with sufficient load capacity
- Maximum relative humidity $\leq 70\%$
- Maximum room temperature $\leq 30^{\circ}\text{C} / (86^{\circ}\text{F})$
- Minimum height of the room 2361 mm / 92,96"
- Only on a non-combustible basement
- Maximum operating altitude: ≤ 6500 ft



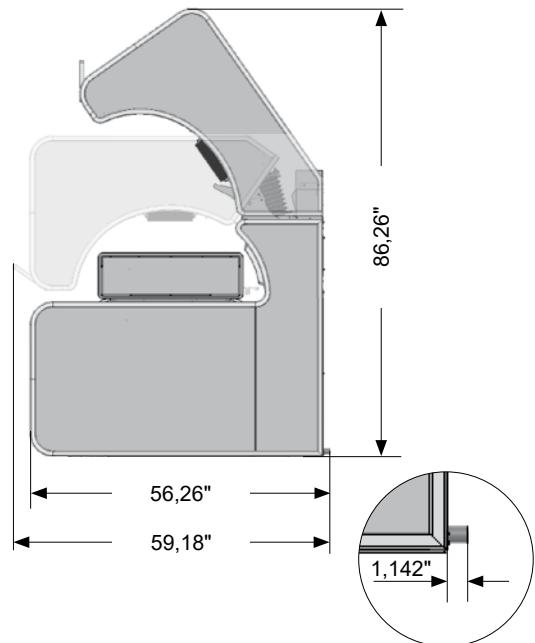
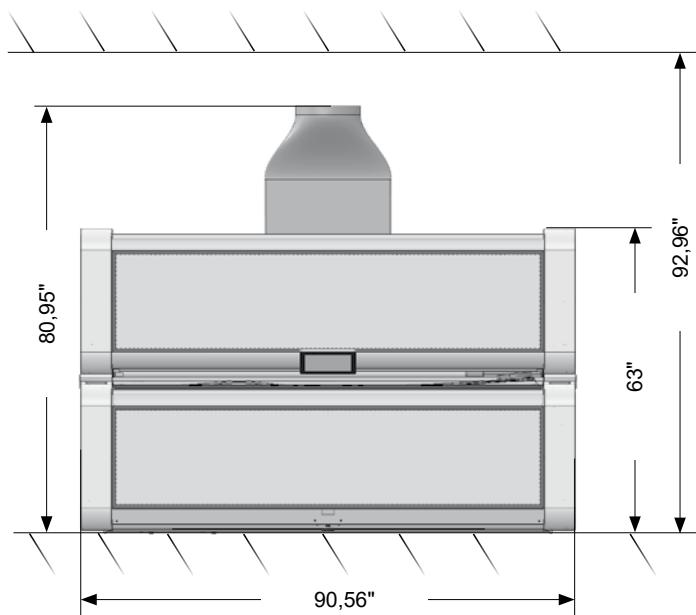
See also chapter *technical data* in the operating instructions.

DISTANCES



3.1 Dimensions and Distances

DIMENSIONS



4. Disassembly

4.1 Tools and aids

	Cutter knife
	Allen wrench SW 6 SW 5 SW 4
	Standard Phillips screwdriver PH2
	Screwdriver 3mm
	Spanner SW 17 SW 13 SW 10
	Reversible ratchet handle 1/4" with AF socket SW 17 SW 13
	Spacer and protective padding e.g. timber beams, foam strips and blankets.
	Adhesive tape (masking tape)
	2 (optimal 4) furniture trolleys
	Number of qualified and authorized service technicians required for this maintenance task.
	Suction cup
	Tape rule or folding rule
	Spirit level

	Side cutter
	TORX wrench TX4

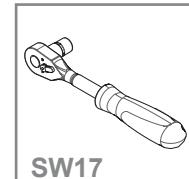
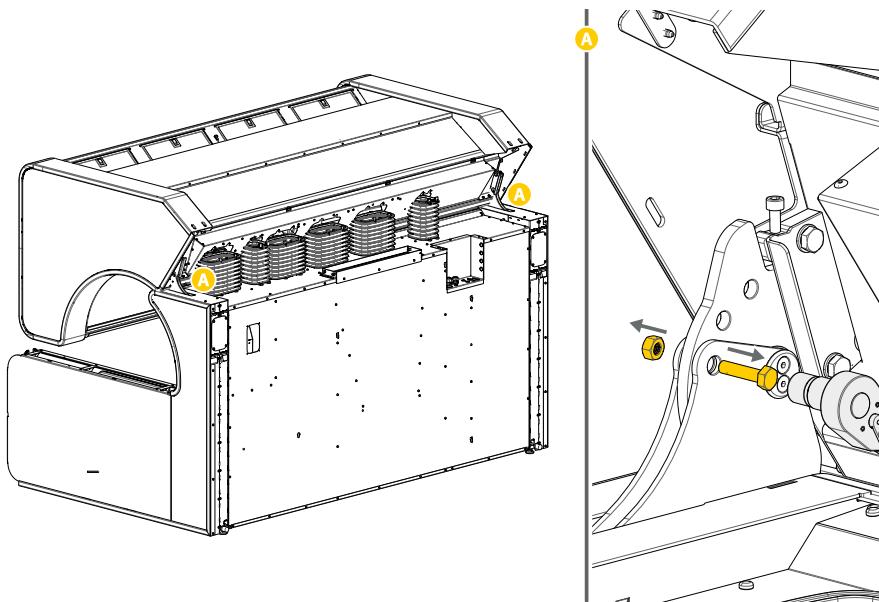
The disassembly and assembly steps of the tanning device are described in the following chapters.

The tools and hardware required to correctly and safely perform these steps are shown at the beginning of each chapter.

	Cable ties which have been removed during disassembly have to be replaced during assembly.
--	--

4.2 Unpack tanning device and accessories

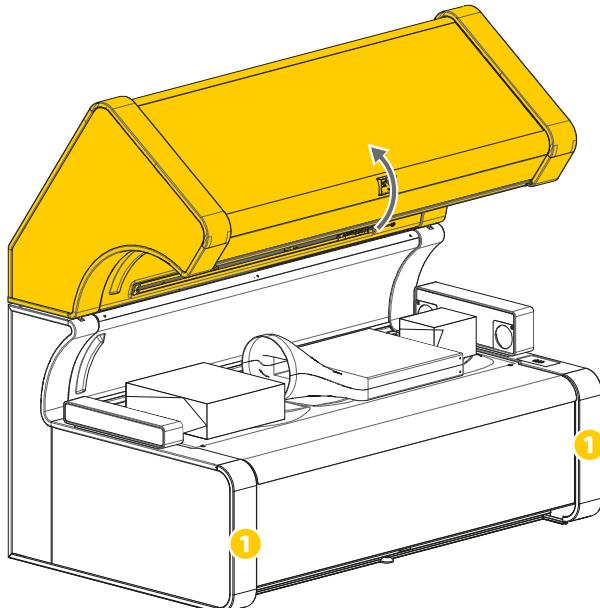
4.2.1 UNPACK TANNING DEVICE AND REMOVE THE HINGE CATCH



Delivery

The tanning device is delivered on a pallet. The display is not mounted and is located with the other accessories on or under the bench surface.

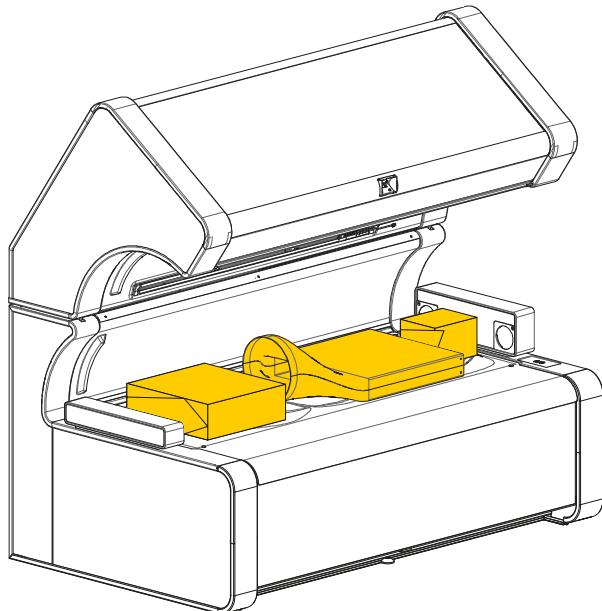
4.2.2 OPEN CANOPY



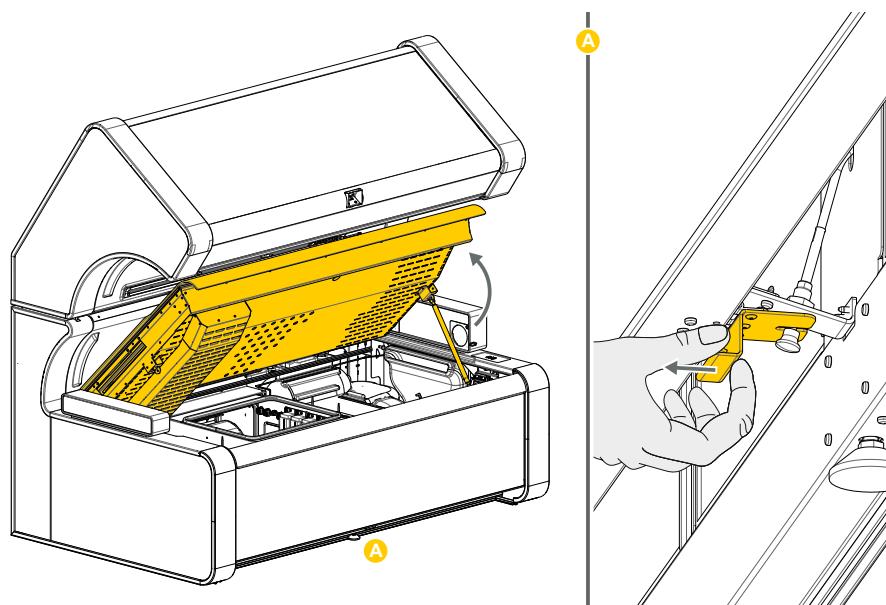
Divergence

Contrary to the following illustrations, the side panels 1 are not fitted on delivery.

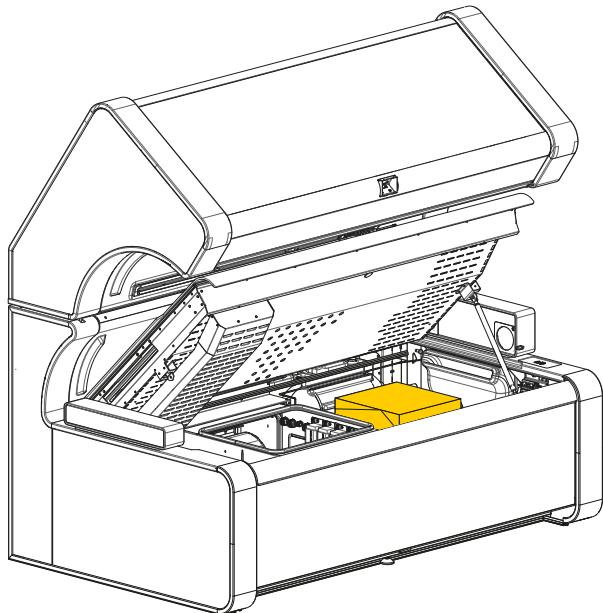
4.2.3 VENT STACK AND CARTONS



4.2.4 OPEN BED

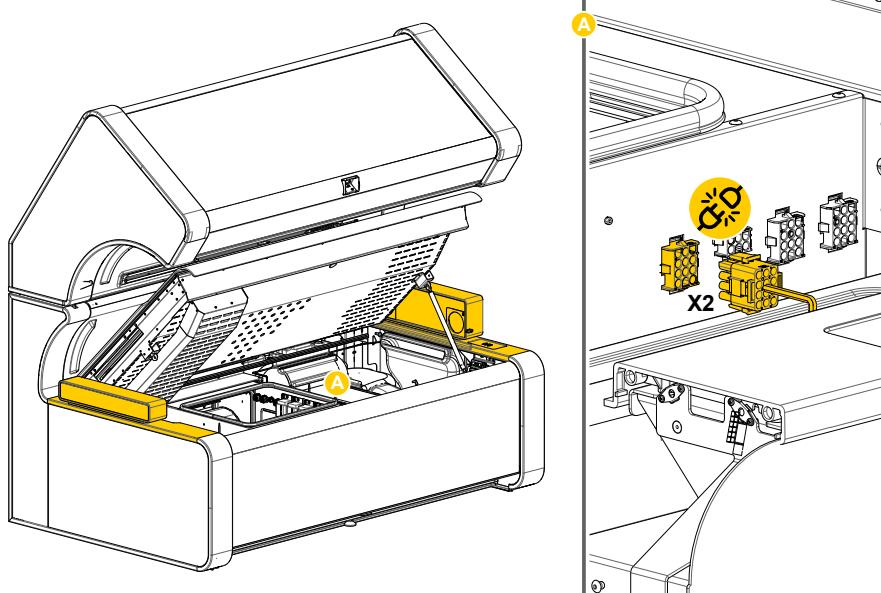
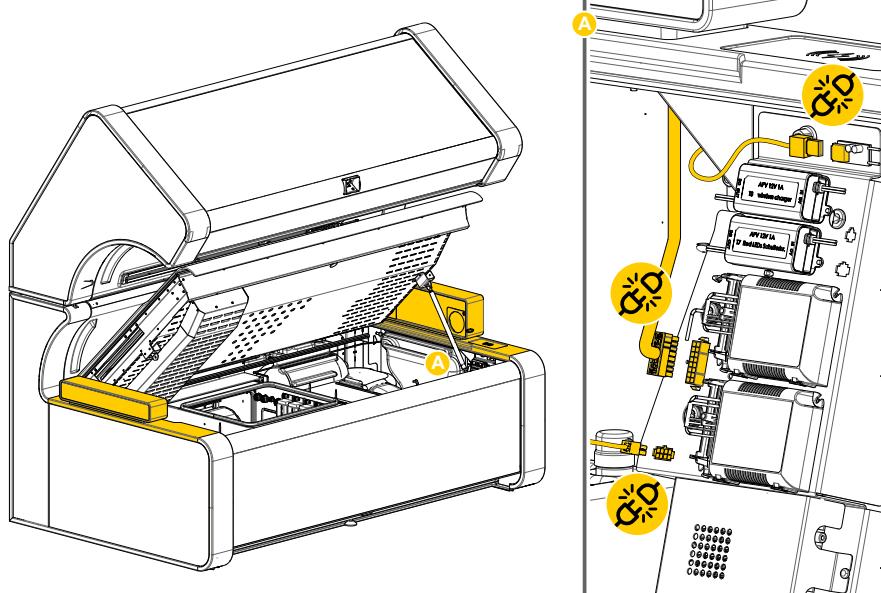


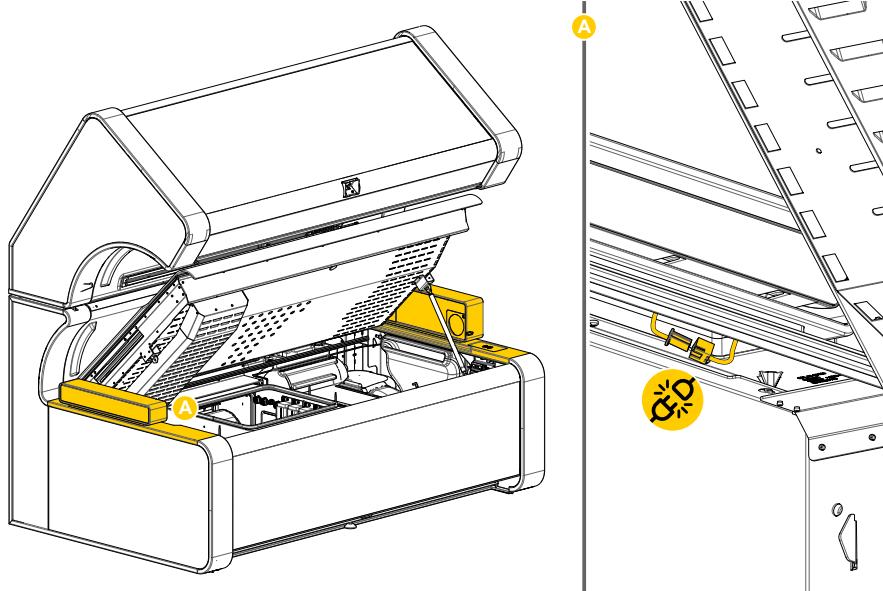
4.2.5 DISPLAY CARTON



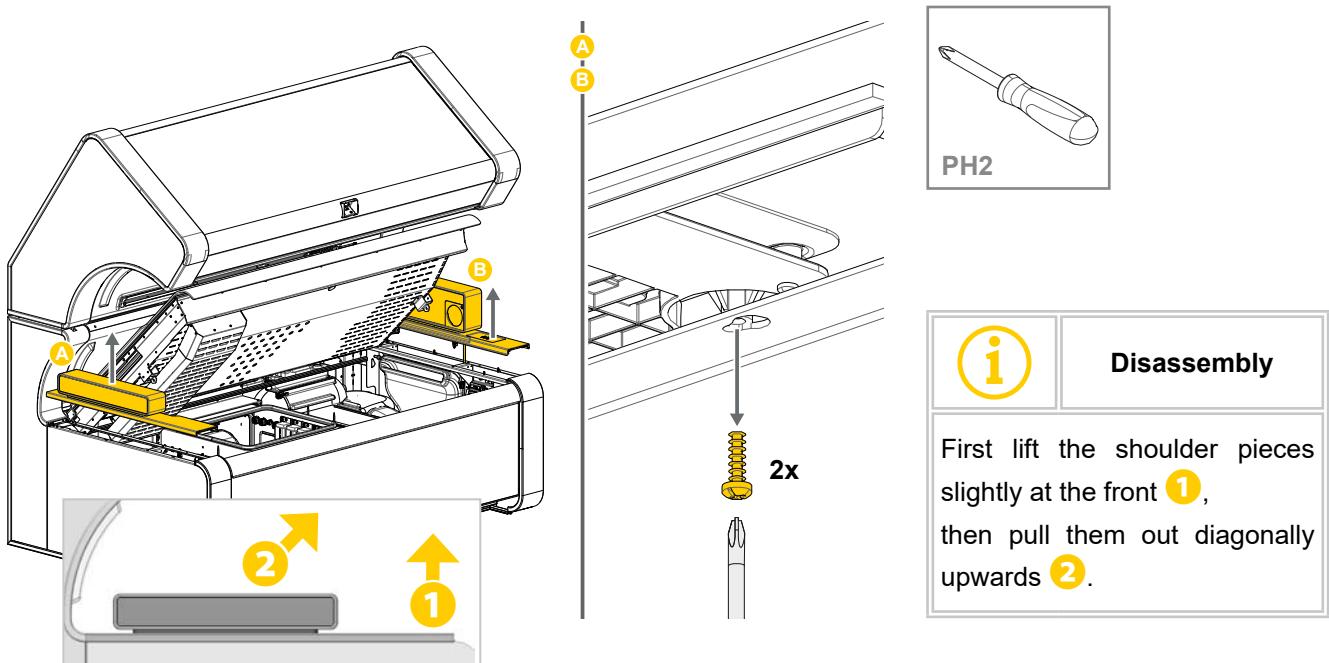
4.3 Disassemble shoulder tanner & air outlet foot

4.3.1 DISCONNECT PLUGS



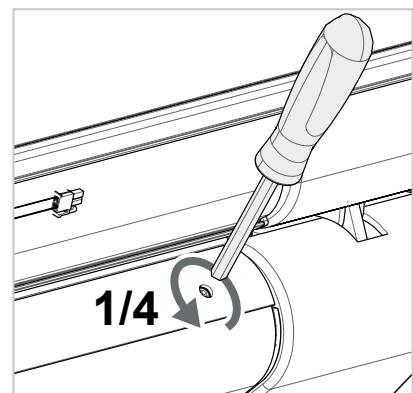
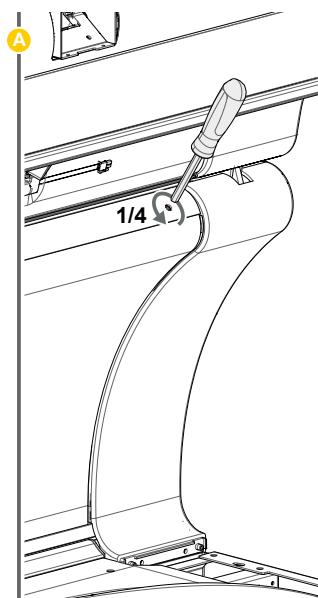
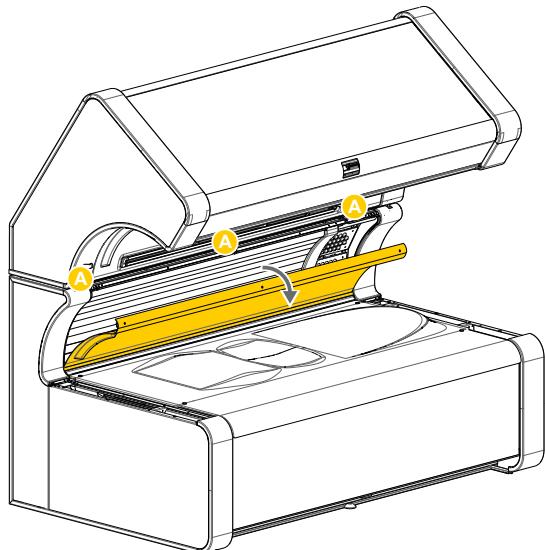


4.3.2 REMOVE SHOULDER TANNER & AIR OUTLET FOOT

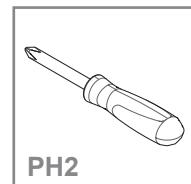
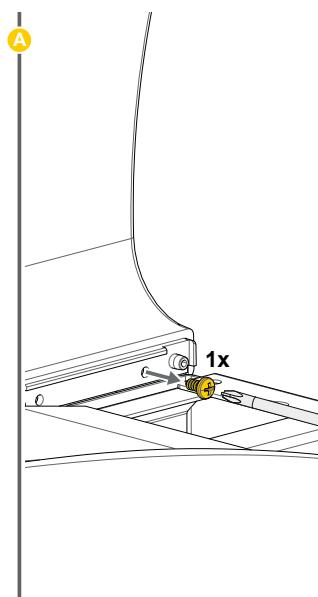
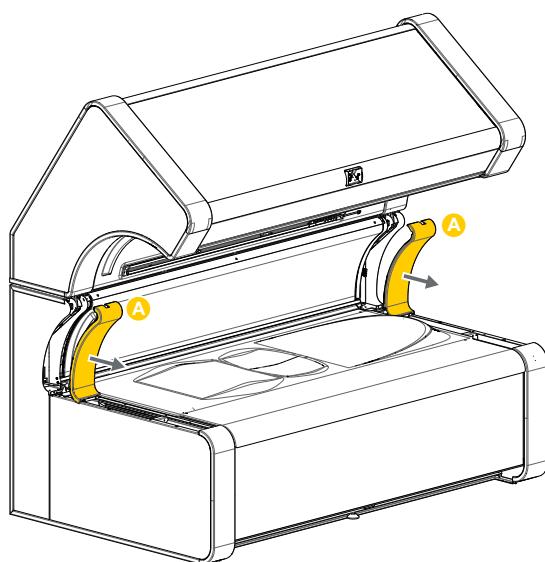


4.4 Prepare back wall

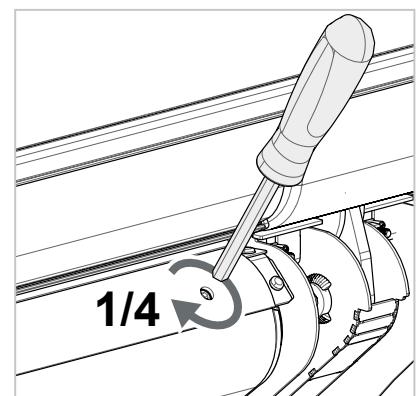
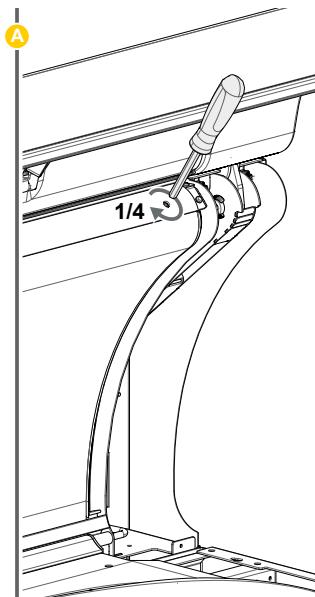
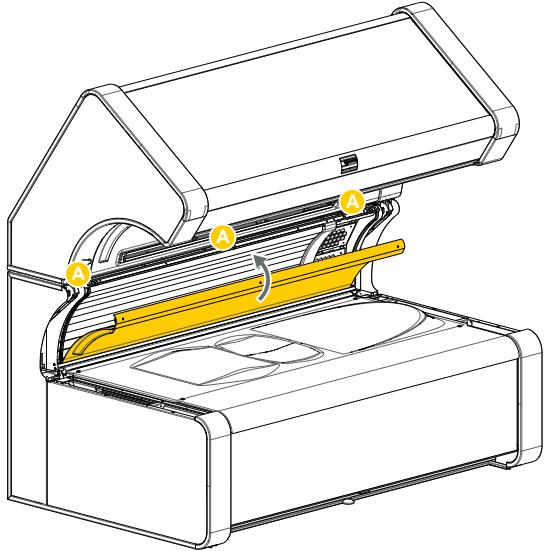
4.4.1 REMOVE BACK WALL PANE



4.4.2 REMOVE PLASTIC PARTS

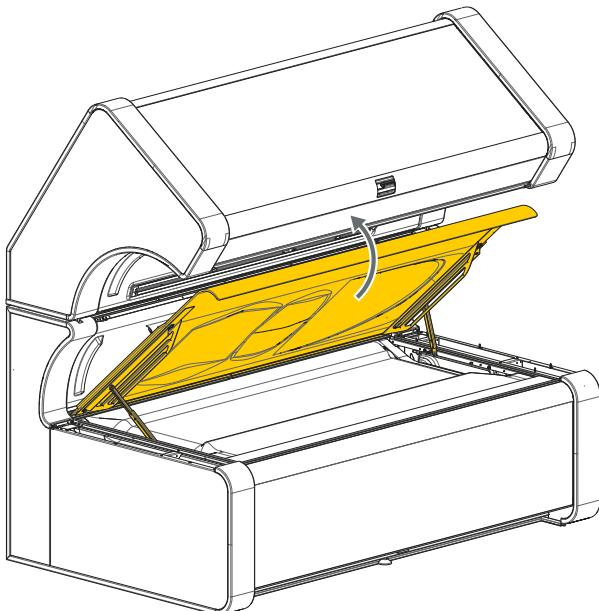


4.4.3 INSERT BACK WALL PANE

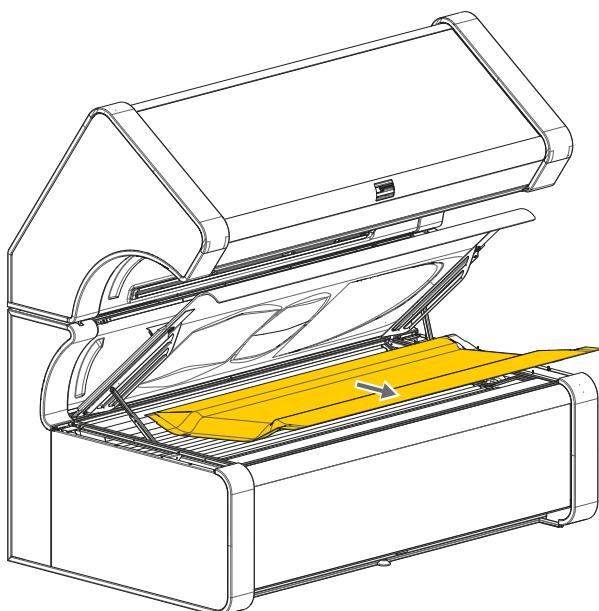


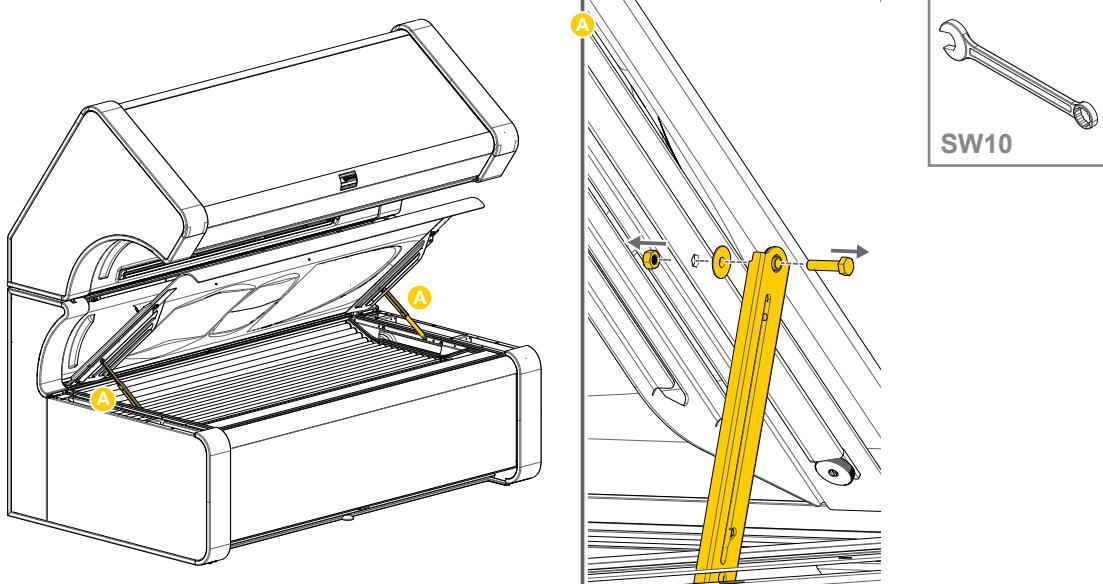
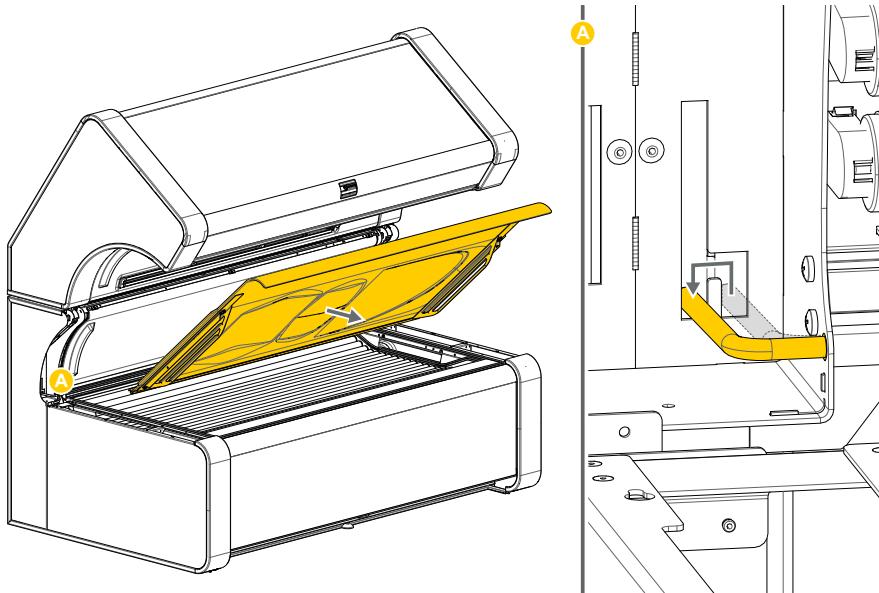
4.5 Remove the acrylic air guide pane and the bed pane

4.5.1 OPEN BED PANE



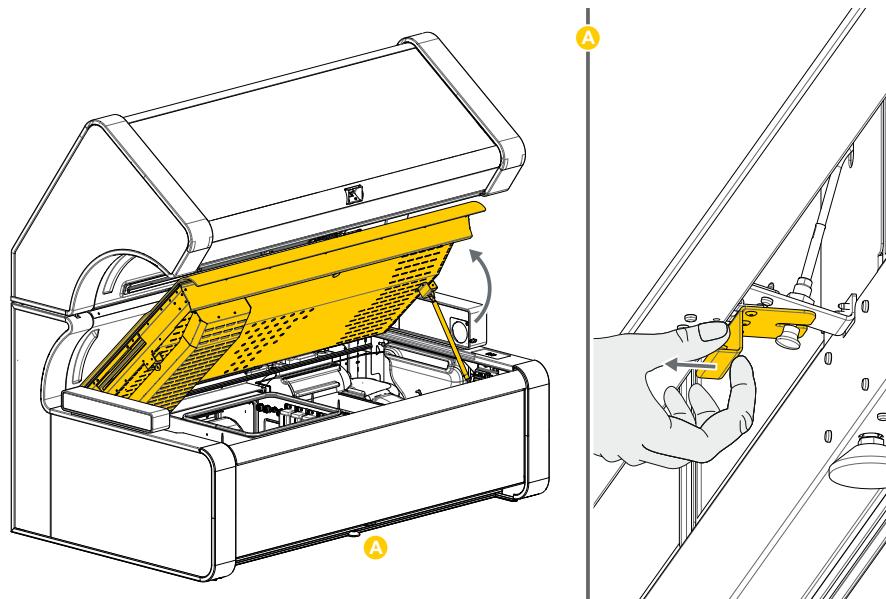
4.5.2 REMOVE ACRYLIC AIR GUIDE PANE



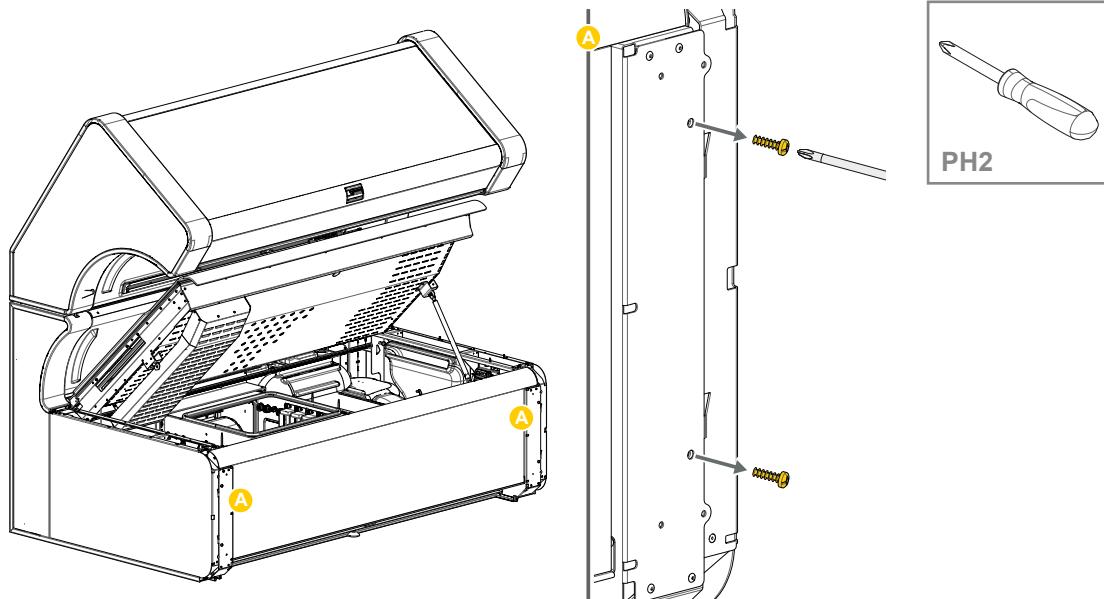
4.5.3 REMOVE TELESCOPIC PROPS**4.5.4 REMOVE BED PANE**

4.6 Remove front panel

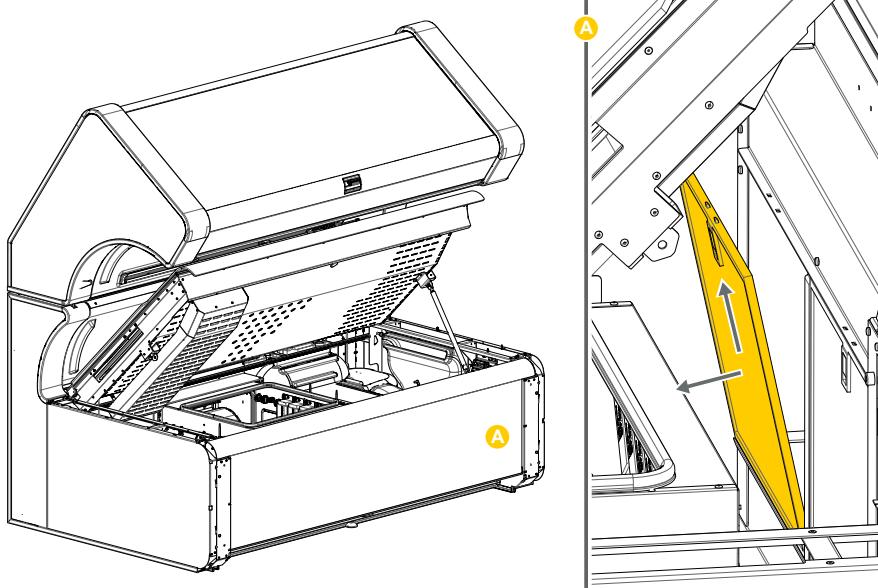
4.6.1 OPEN BED



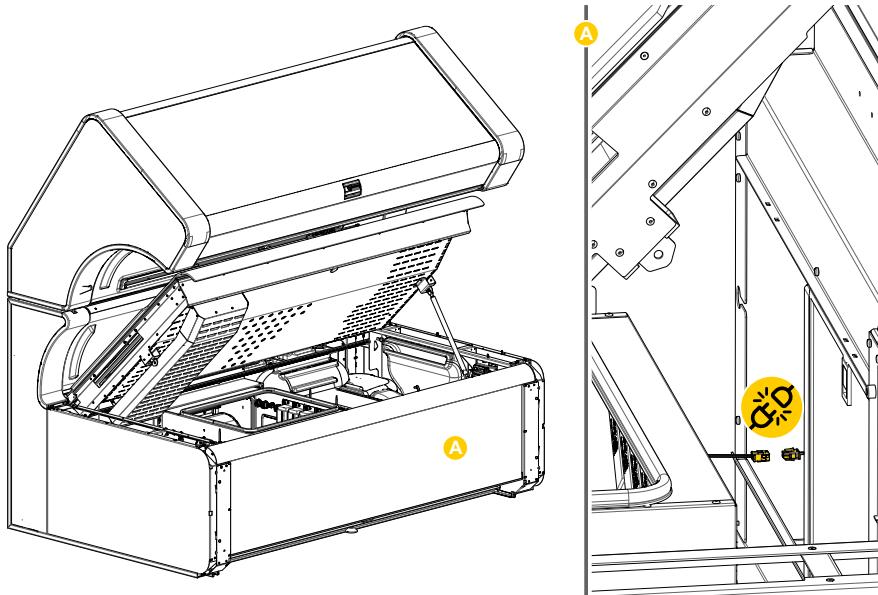
4.6.2 REMOVE THE SCREWS



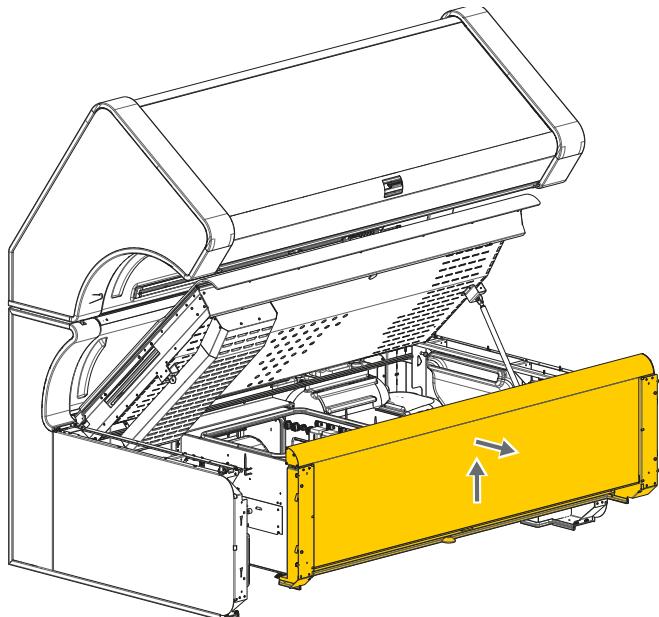
4.6.3 REMOVE FILTER ELEMENT



4.6.4 PULL PLUG



4.6.5 REMOVE FRONT PANEL

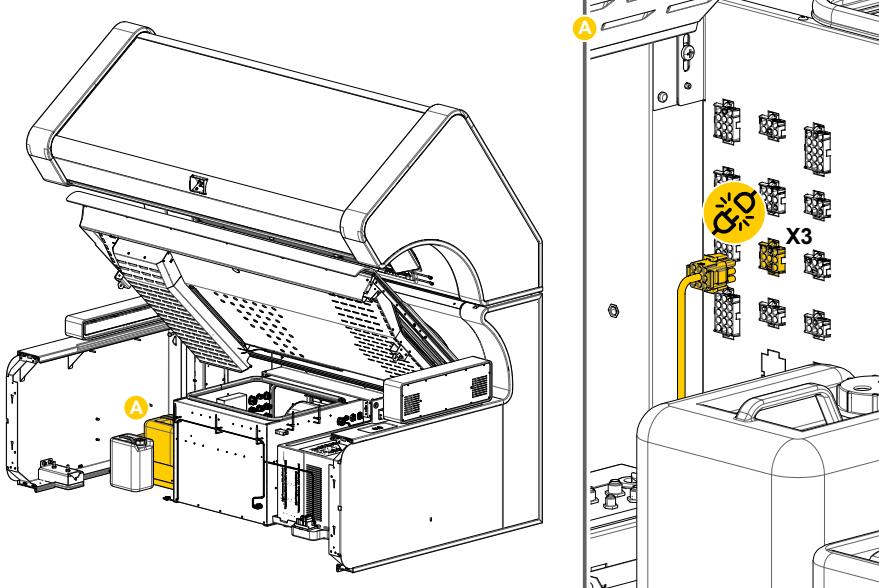


Disassembly

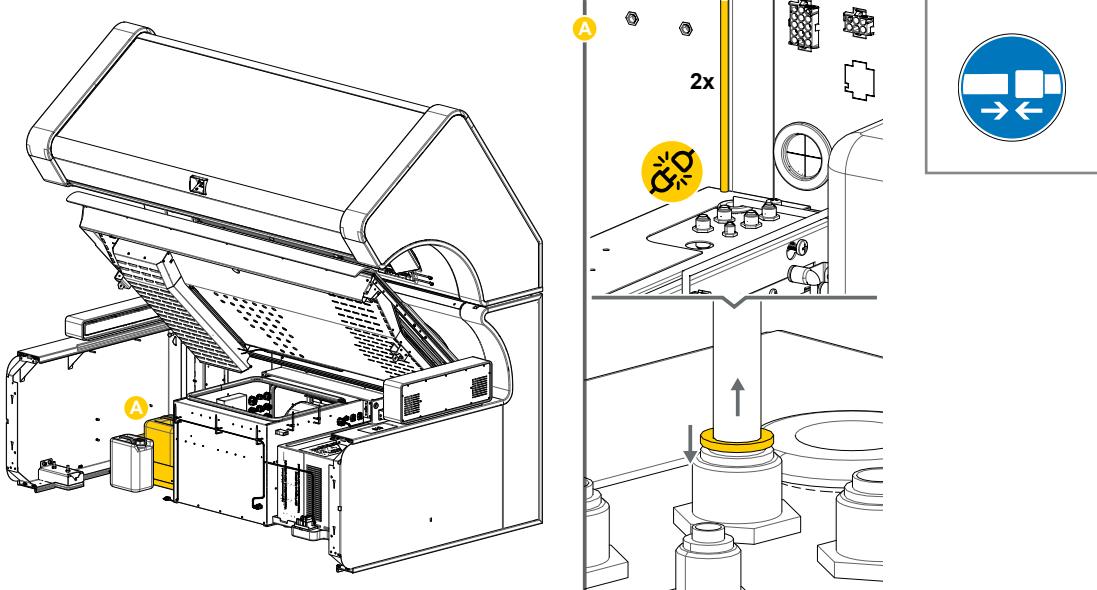
First lift the front, then remove it.

4.7 Remove Aqua/Aroma unit

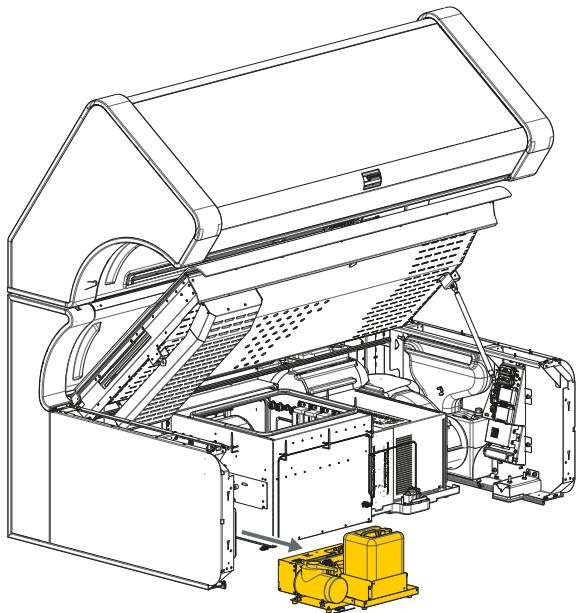
4.7.1 PULL PLUG



4.7.2 PULL OFF BOTH HOSES

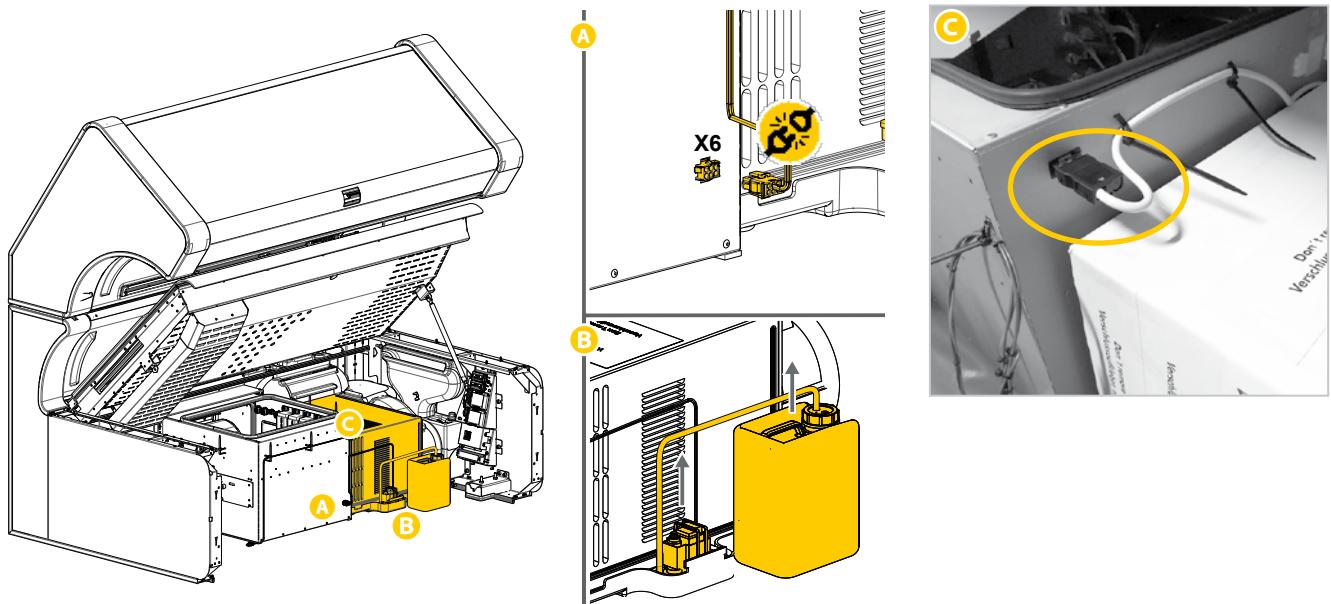


4.7.3 REMOVE AQUA/AROMA UNIT

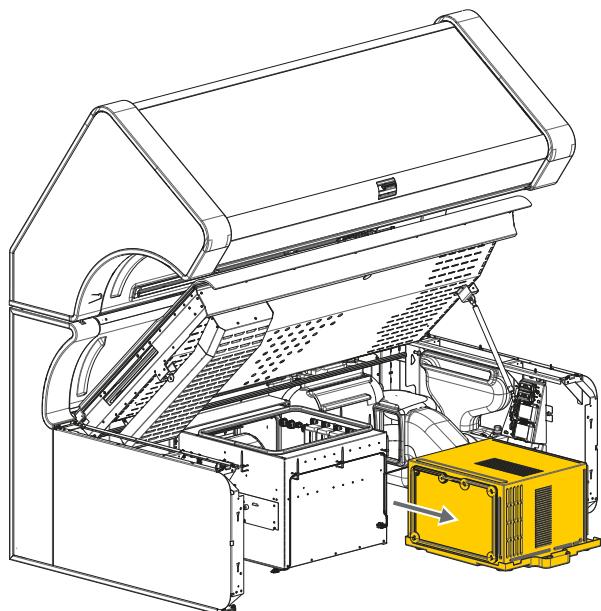


4.8 Remove air conditioner

4.8.1 PULL PLUGS

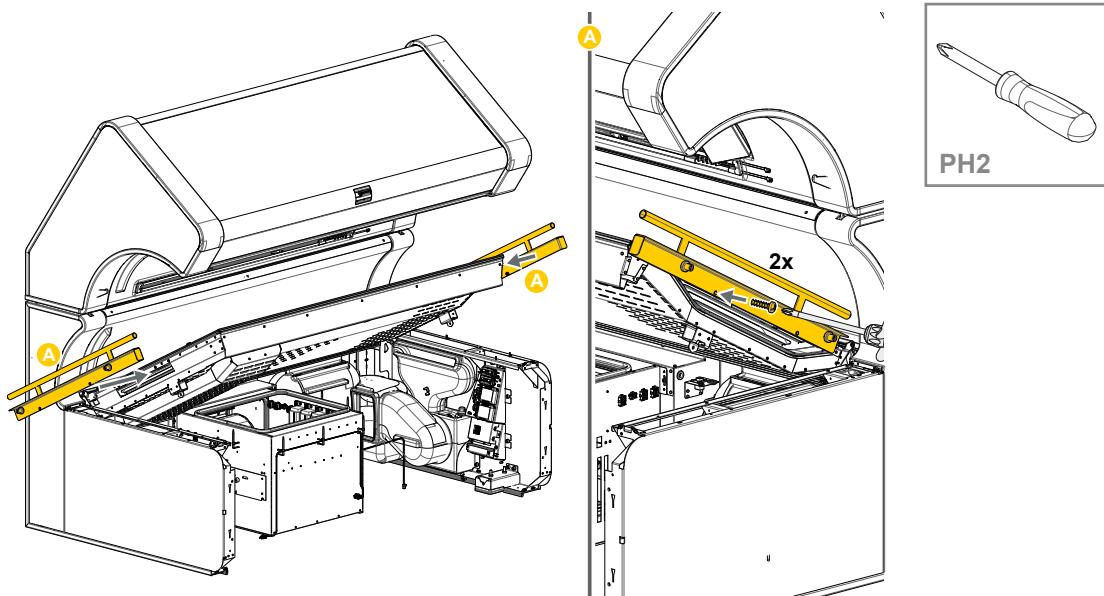


4.8.2 REMOVE AIR CONDITIONER

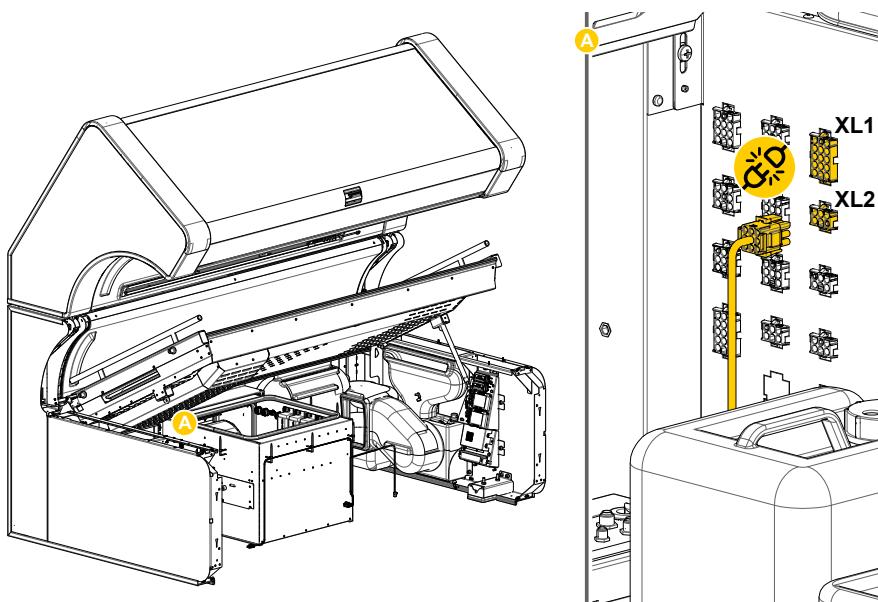


4.9 Remove bed

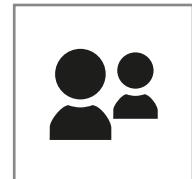
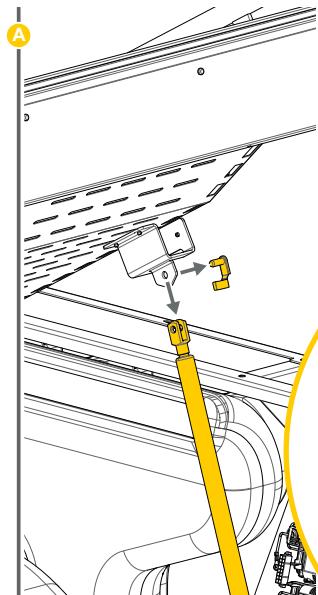
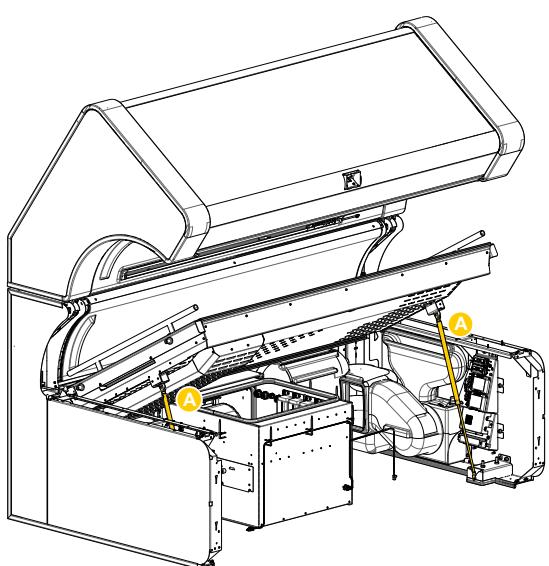
4.9.1 INSTALL MOUNTING HANDLES



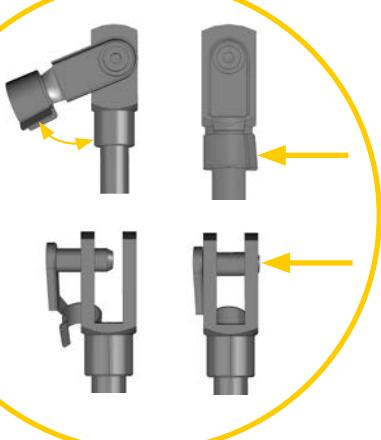
4.9.2 PULL PLUGS



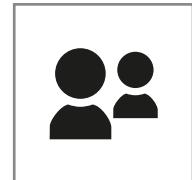
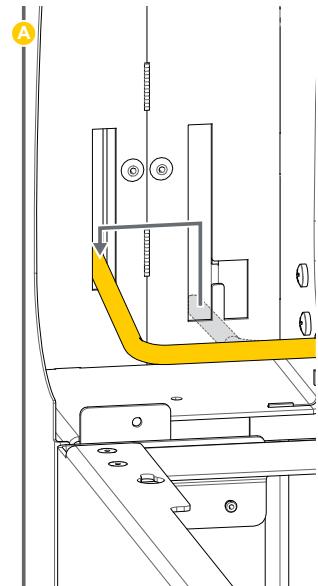
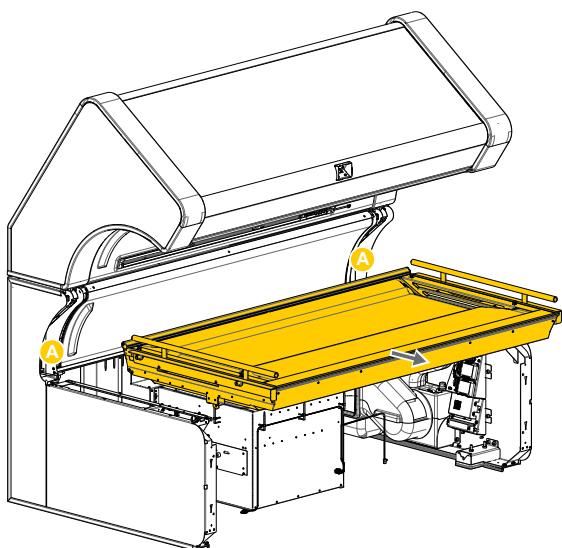
4.9.3 REMOVE BED DAMPERS



3 mm



4.9.4 CLOSE AND REMOVE THE BED



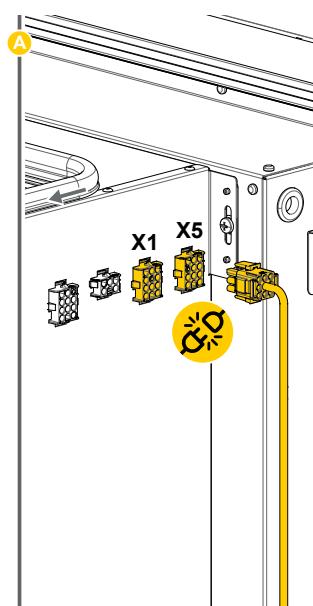
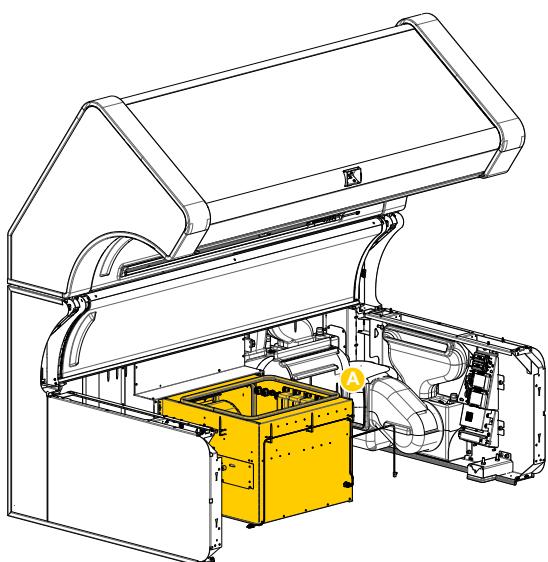
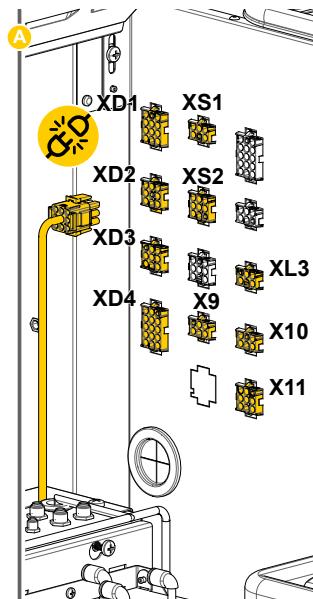
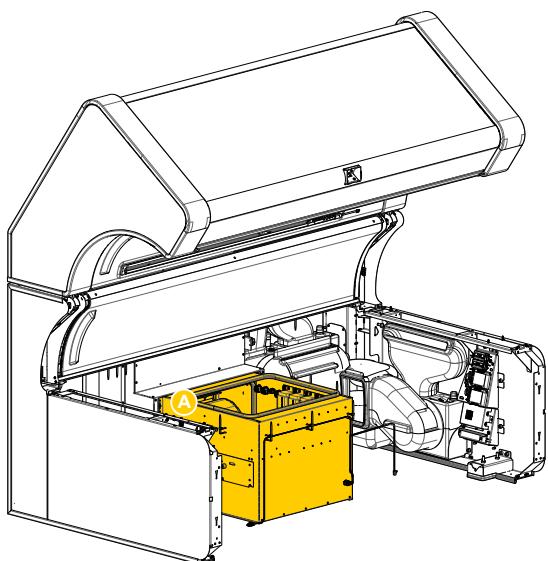
Risk of tube breakage

The fluorescent tubes can break due to shocks and deformation of the bench.

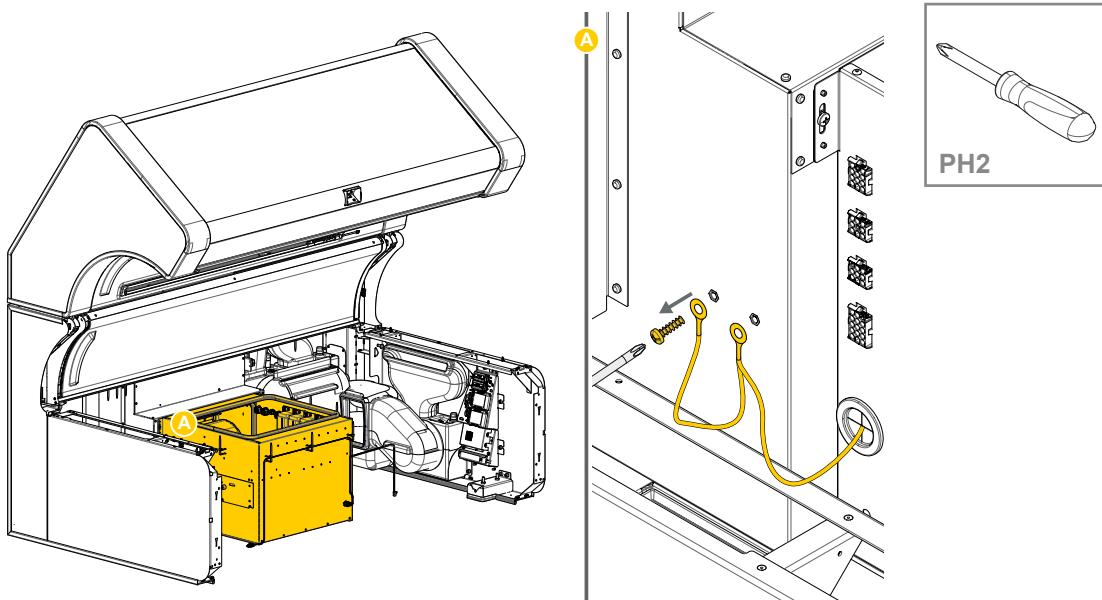
- After removing the dampers, carefully place the bed on the electronic box.

4.10 Remove electronic box

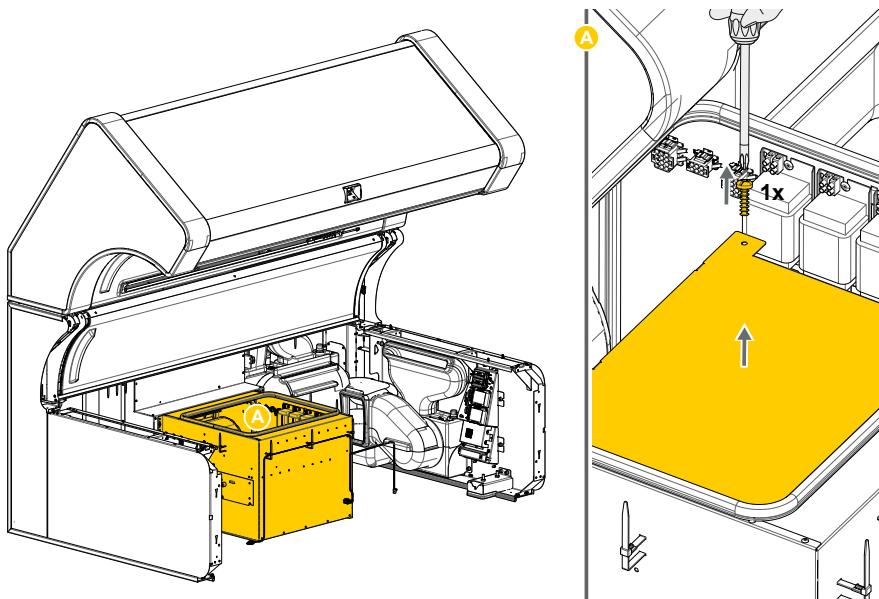
4.10.1 PULL PLUGS



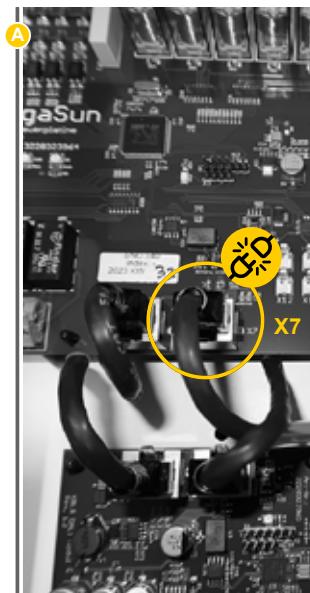
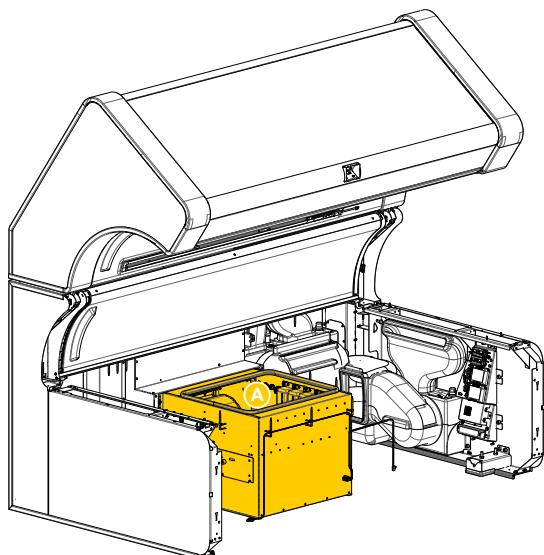
4.10.2 DISCONNECT GROUND CABLE



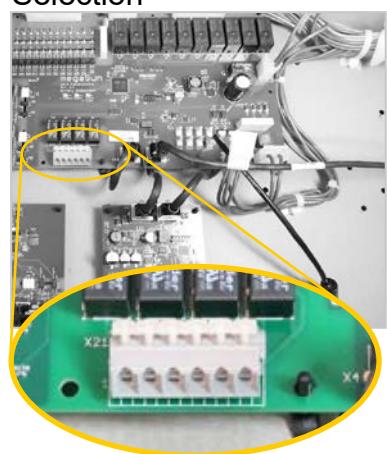
4.10.3 REMOVE THE COVER PLATE OF THE ELECTRONICS TRAY



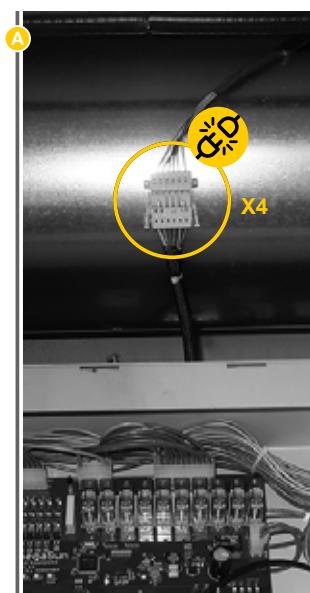
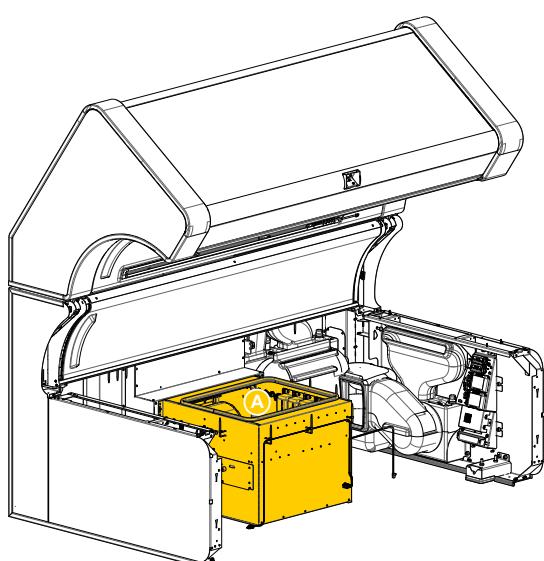
4.10.4 DISCONNECT PATCH AND CHANNEL SELECTION CABLE

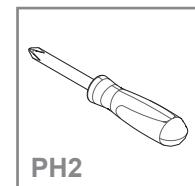
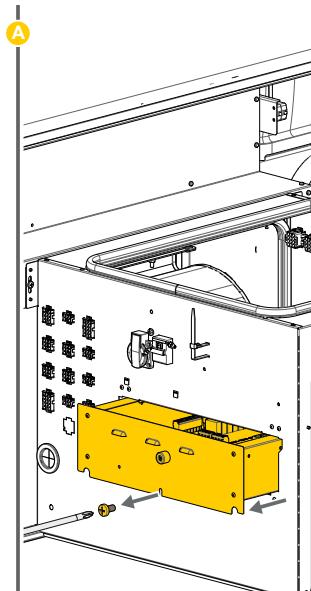
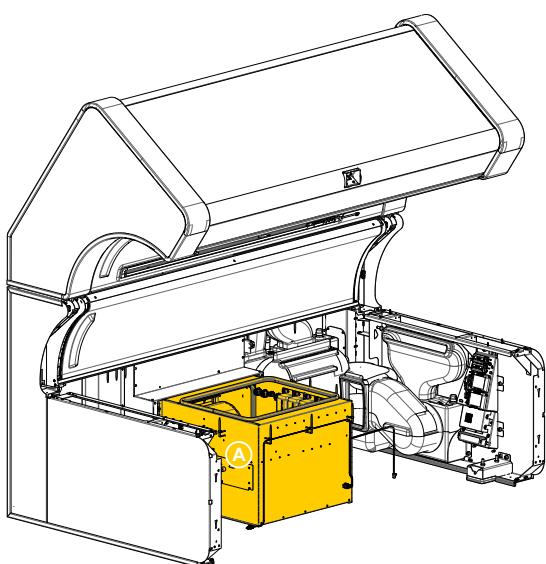
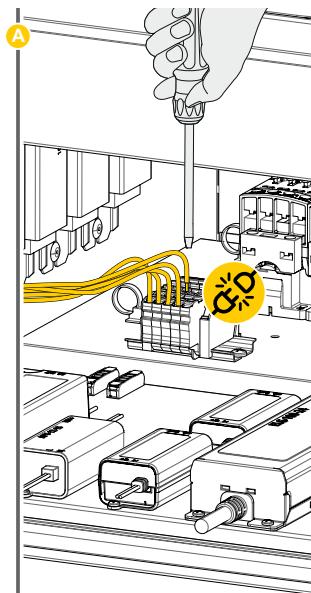
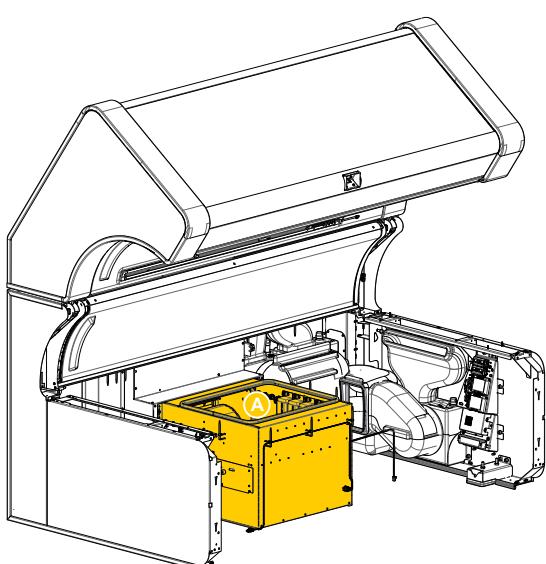


Channel Selection

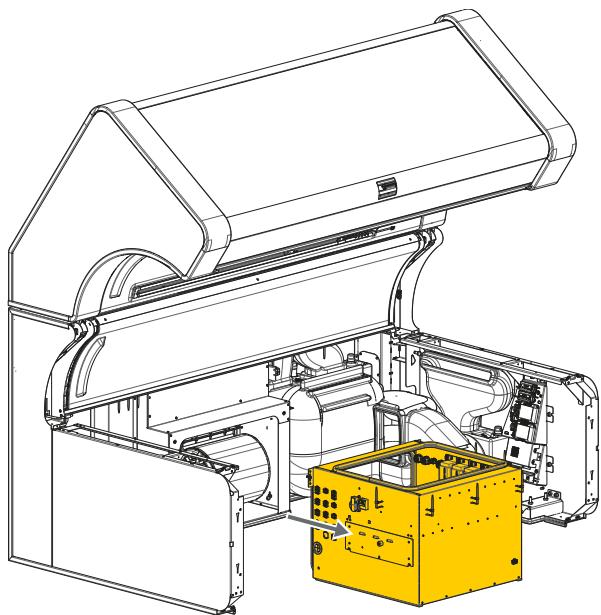


4.10.5 DISCONNECT MAIN FAN PLUG



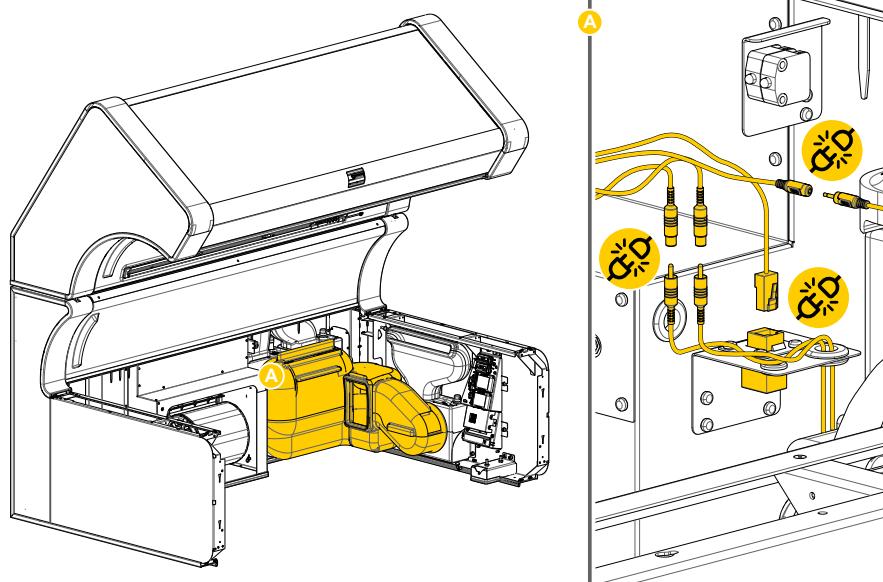
4.10.6 OPEN ELECTRONICS TRAY**4.10.7 DISCONNECT MAINS CABLE**

4.10.8 REMOVE ELECTRONIC BOX

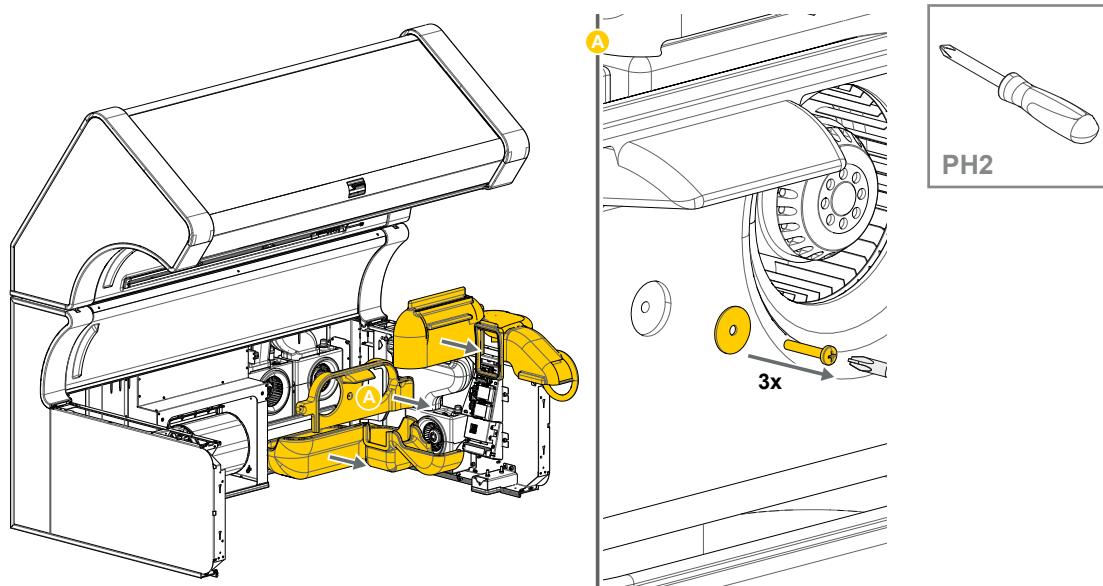


4.11 Remove rear air housing

4.11.1 PULL PLUGS

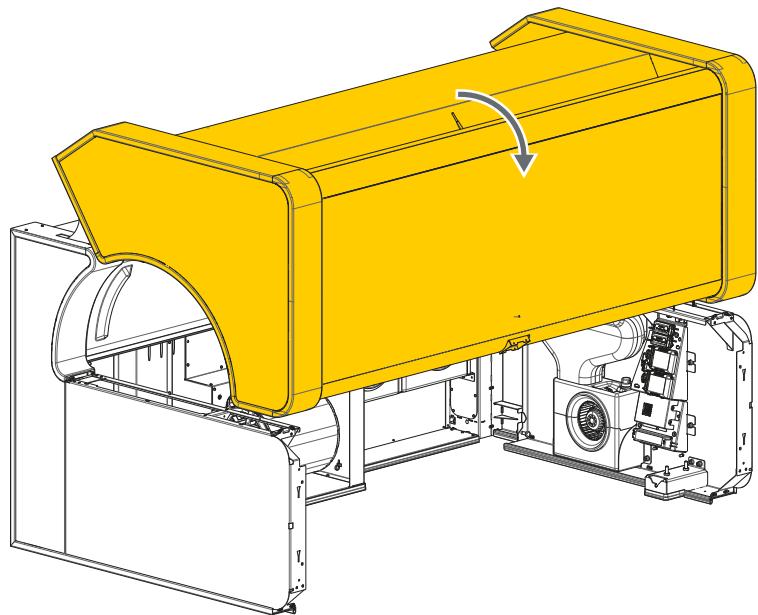


4.11.2 REMOVE AIR HOUSING



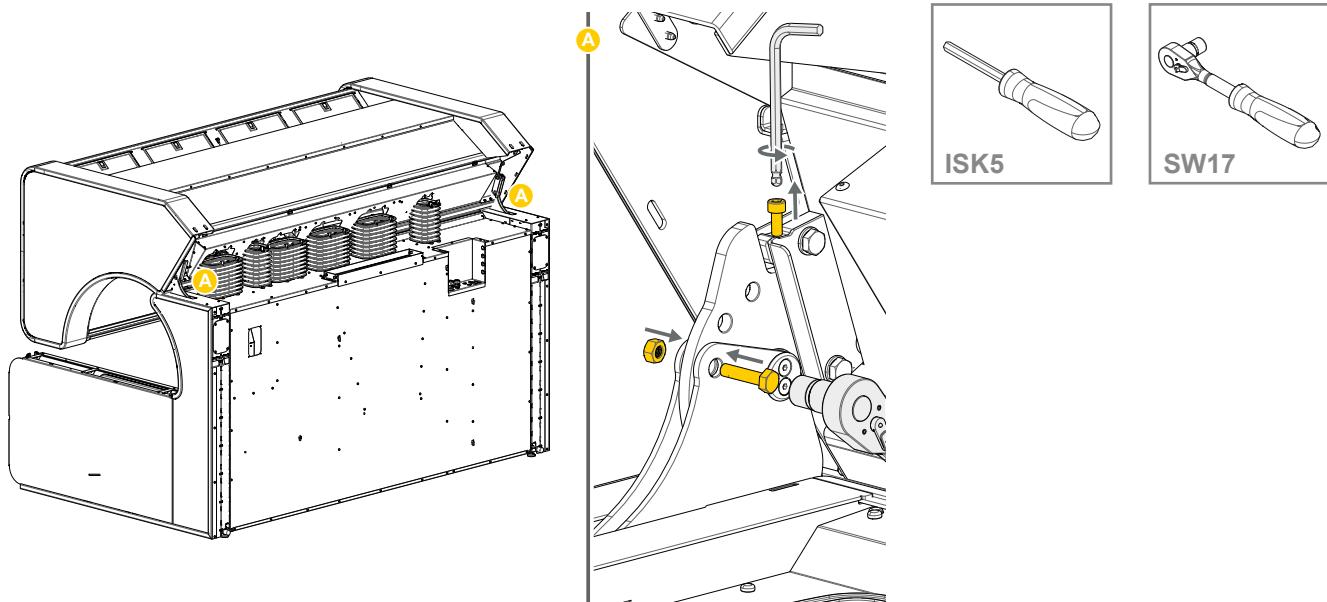
4.12 Fold down canopy

4.12.1 FOLD DOWN CANOPY

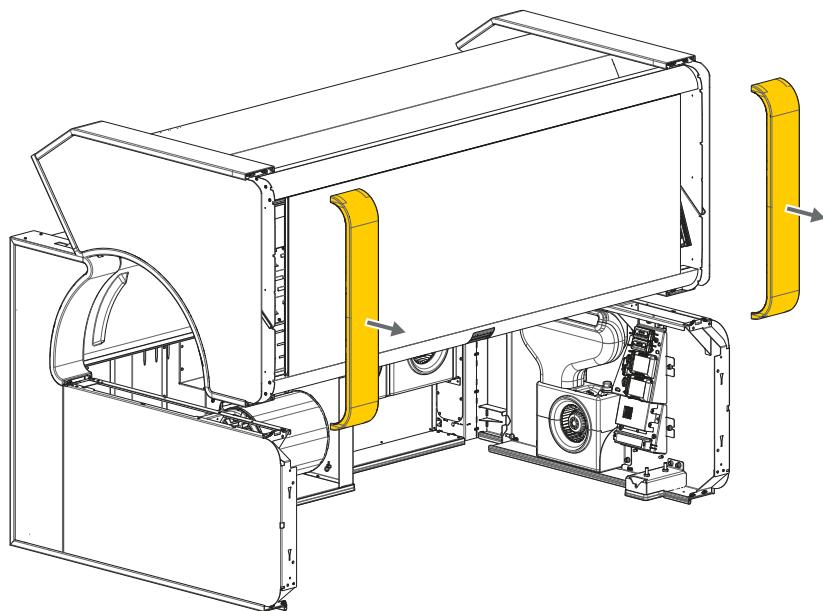


4.13 Disassemble the canopy

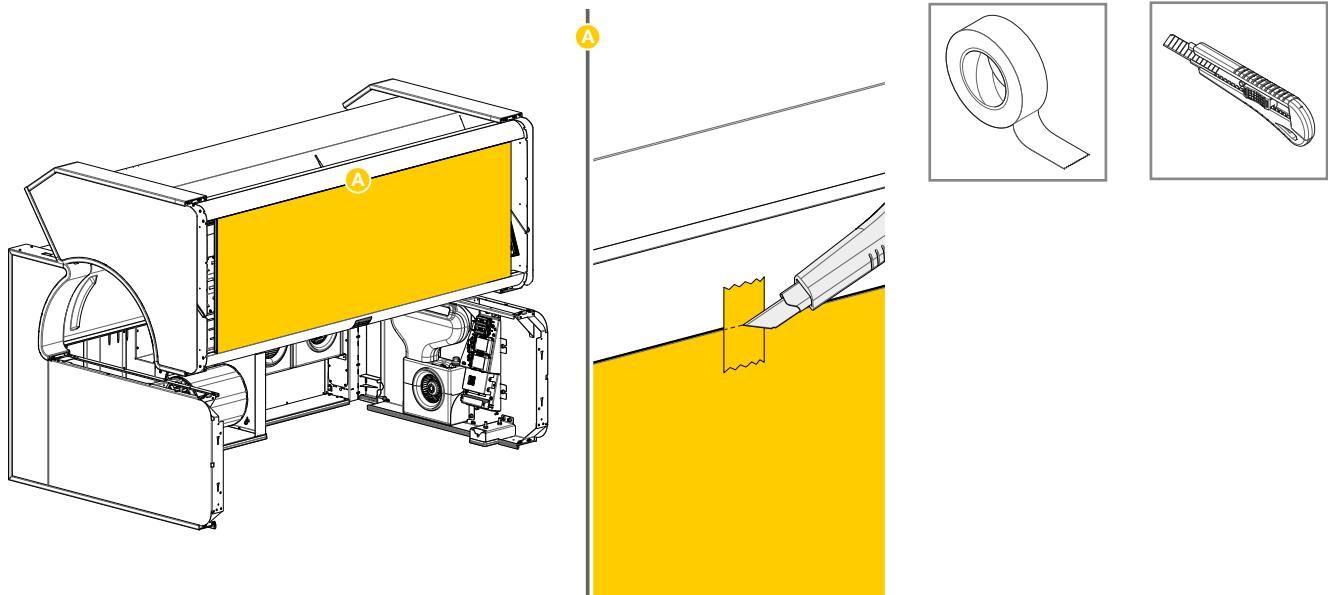
4.13.1 LOOSEN THE LOCKING SCREW AND LOCK THE HINGE



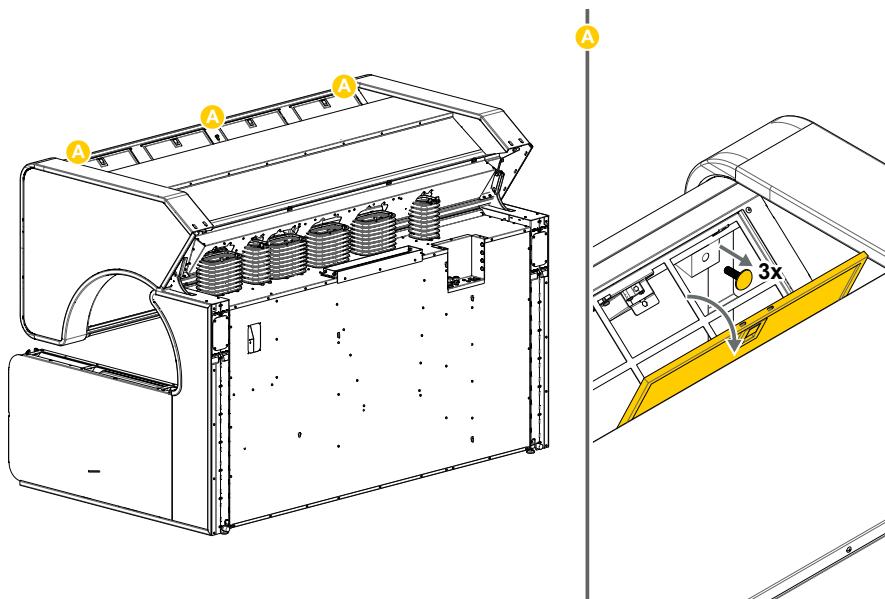
4.13.2 PULL OFF PLASTIC PANELS



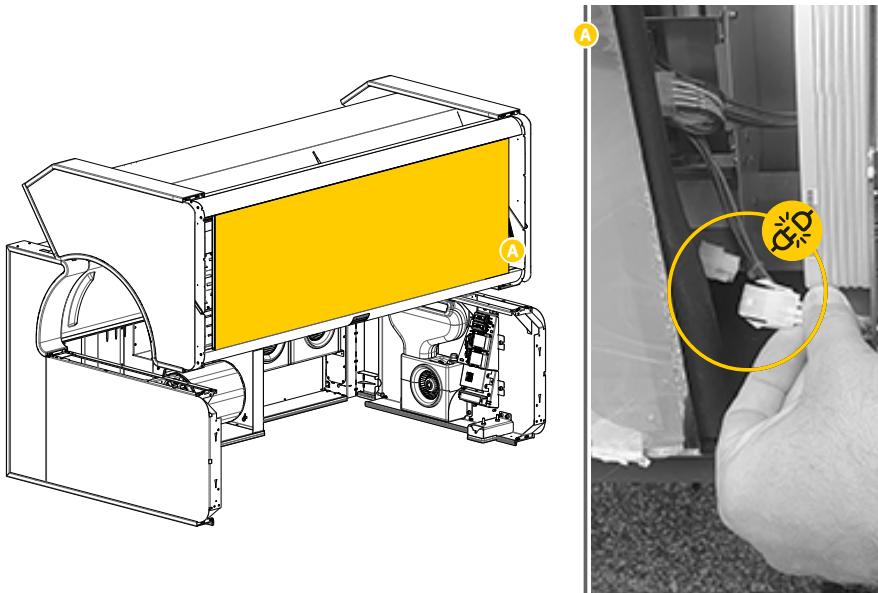
4.13.3 MARK THE POSITION OF THE PANE



4.13.4 REMOVE AIR FILTER AND KNURLED SCREWS



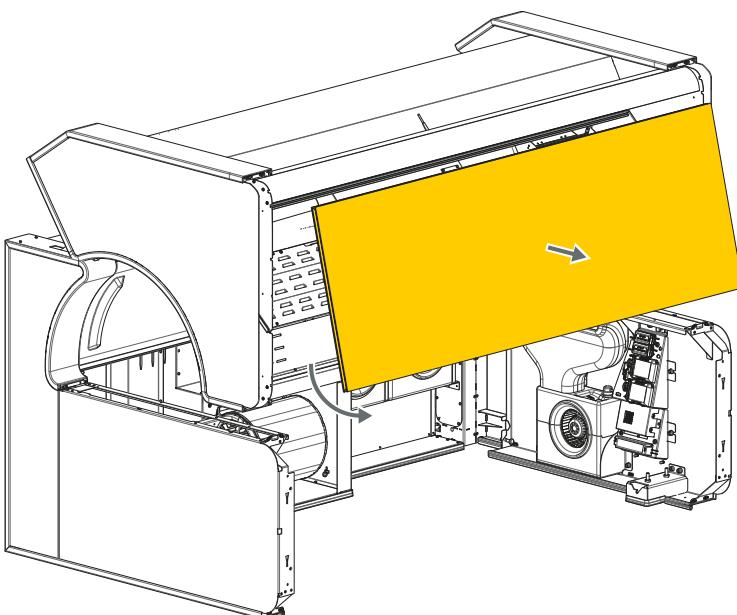
4.13.5 DISCONNECT THE PLUG AT THE BOTTOM RIGHT



Plug connection

Lift the Infinity Mirror slightly and release the plug connection through the gap.

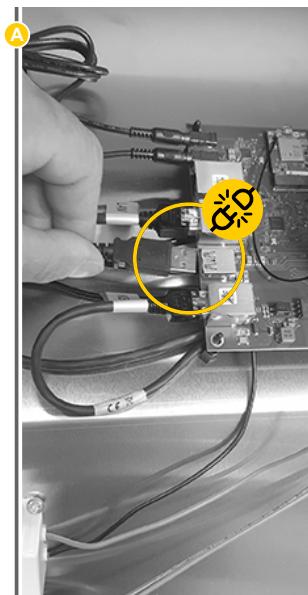
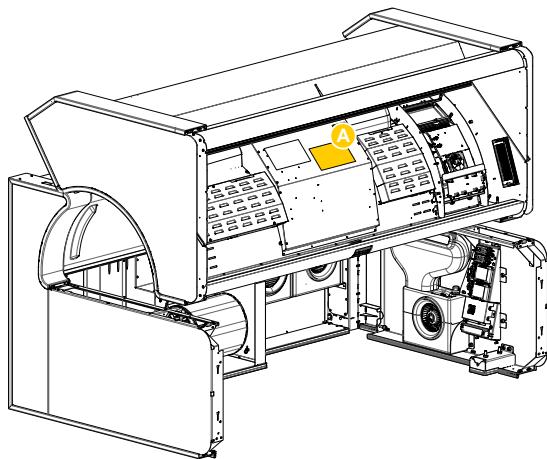
4.13.6 REMOVE INFINITY MIRROR



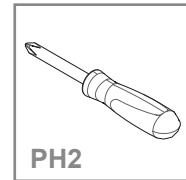
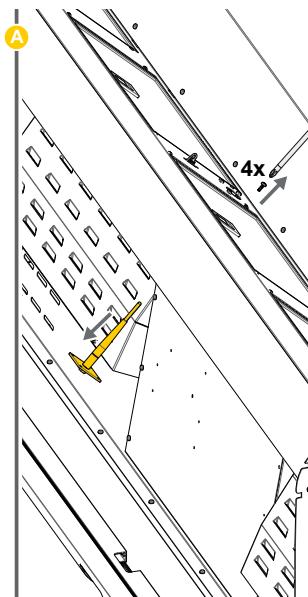
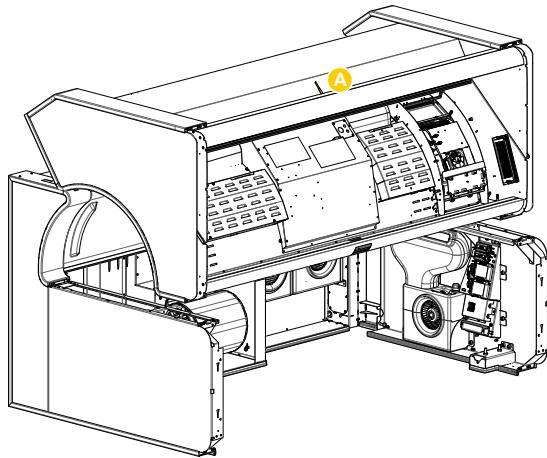
Fastening

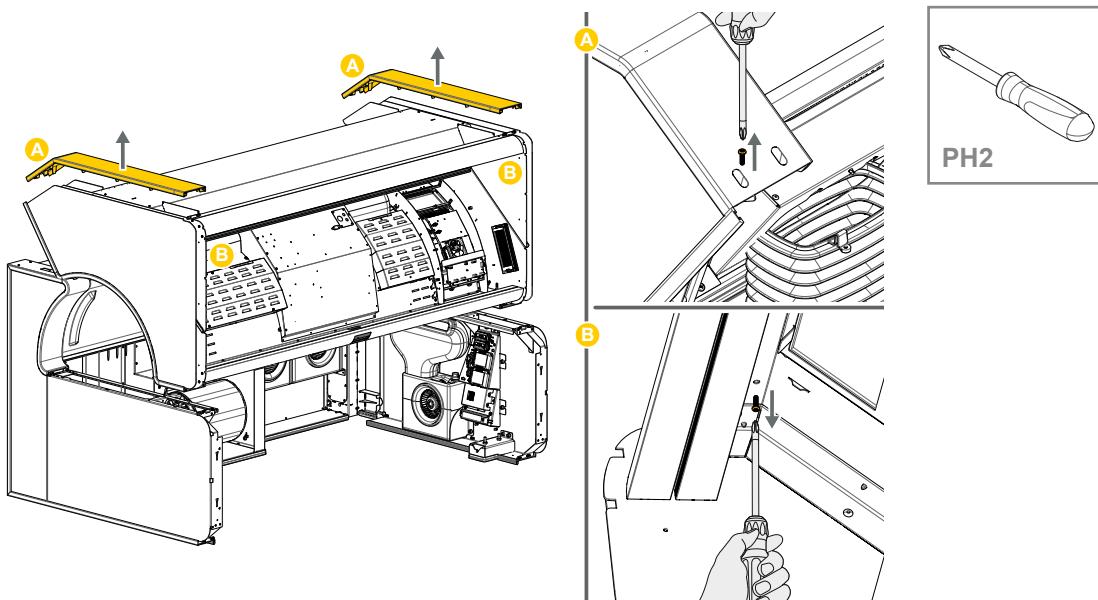
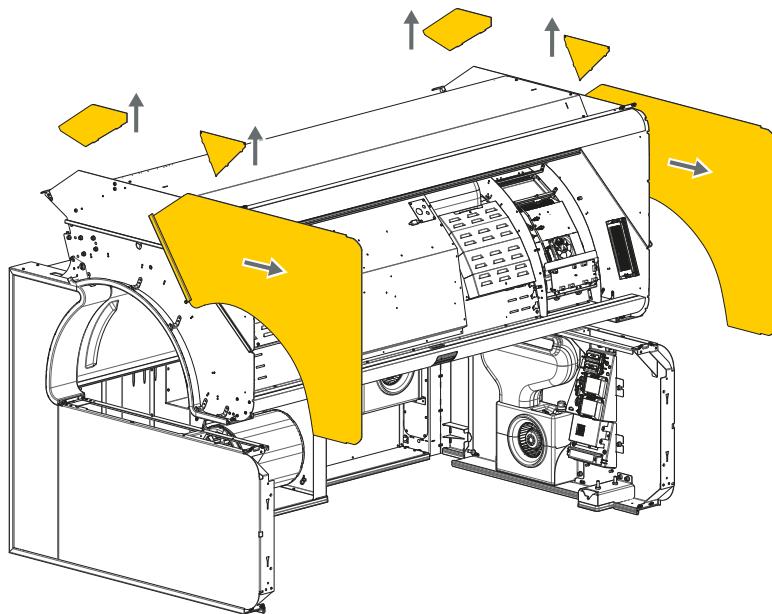
The Infinity Mirror is fixed at the lower end with a flexible pressure lock (Dual Lock).

4.13.7 DISCONNECT USB CABLE



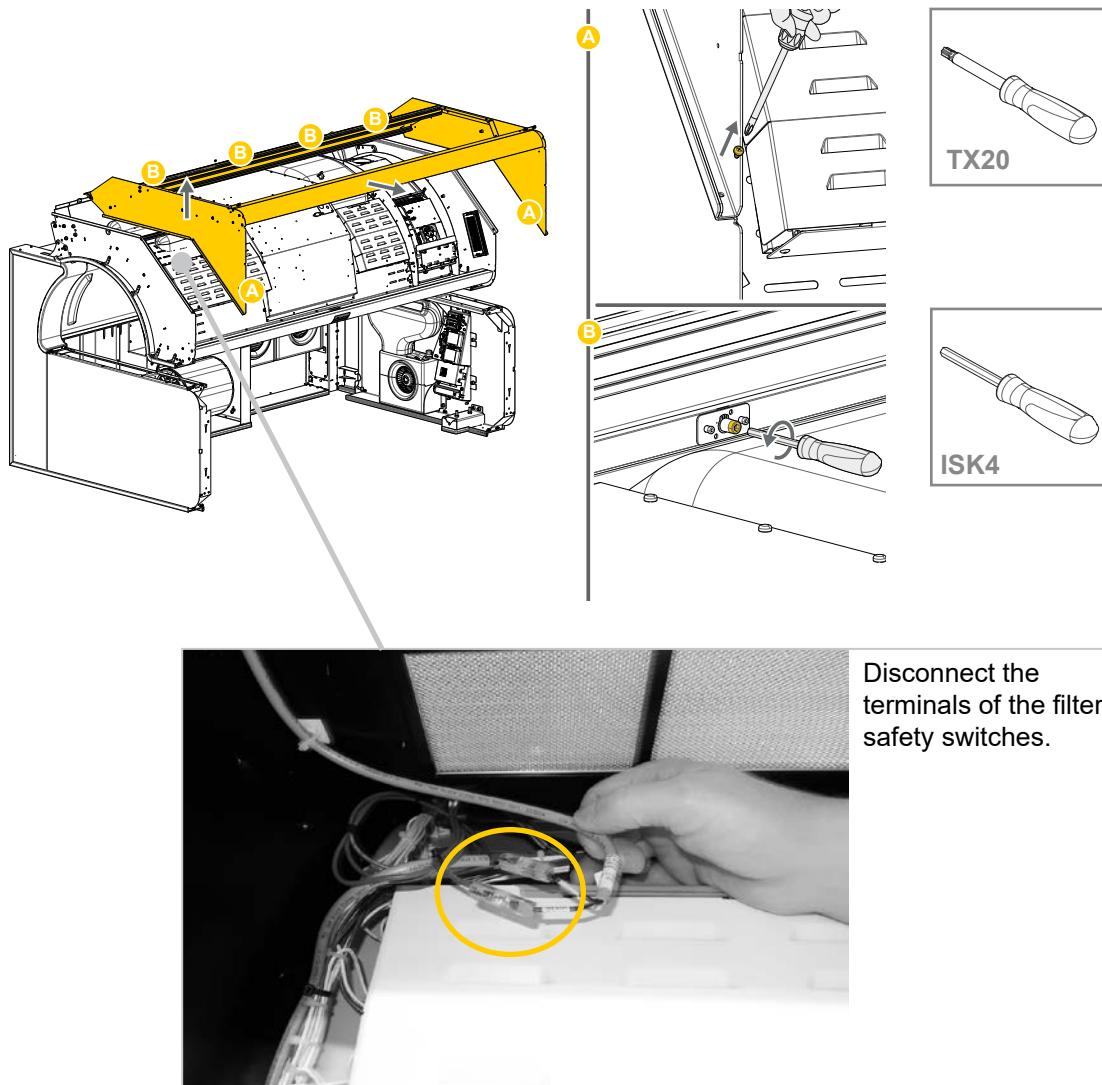
4.13.8 REMOVE WIFI / BLUETOOTH ANTENNA



4.13.9 REMOVE UPPER PANELING**4.13.10 REMOVE SIDE PANELING**

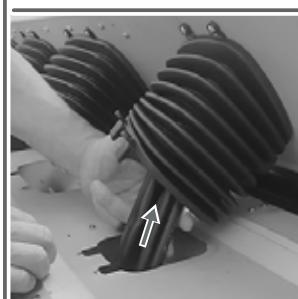
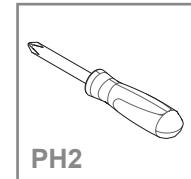
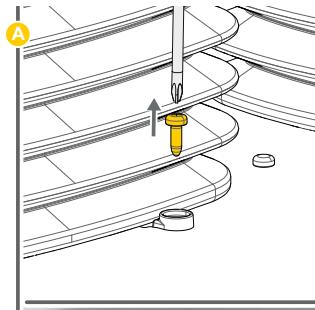
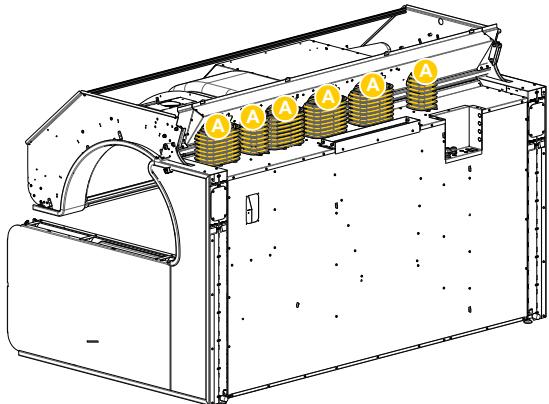
4.14 Remove upper part of the canopy

4.14.1 REMOVE UPPER PART OF THE CANOPY

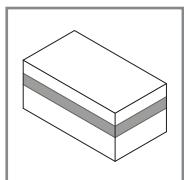
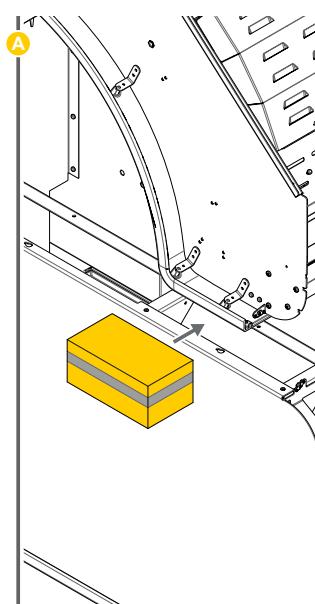
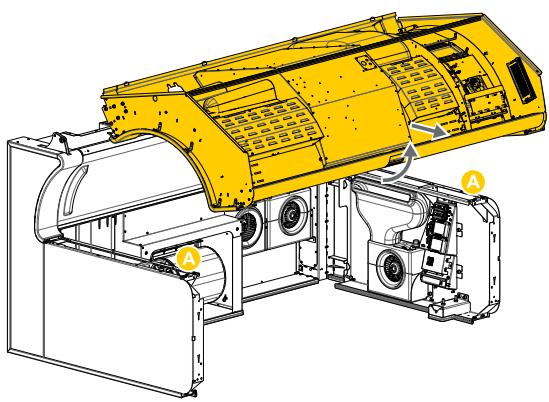


4.15 Remove lower part of the canopy

4.15.1 UNSCREW INTAKE AIR BOOTS AND REMOVE CABLES AND HOSES

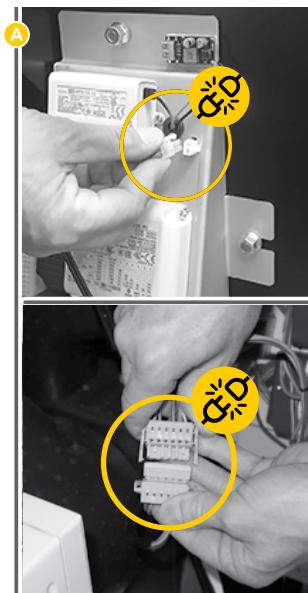
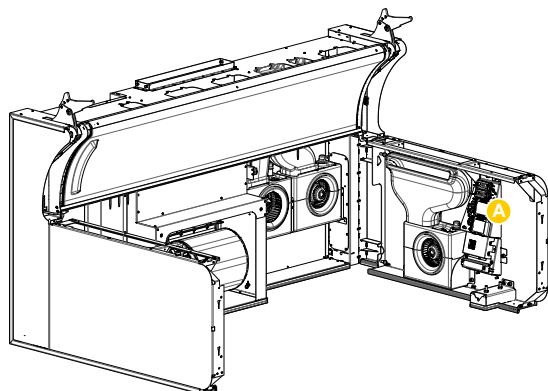


4.15.2 REMOVE CANOPY

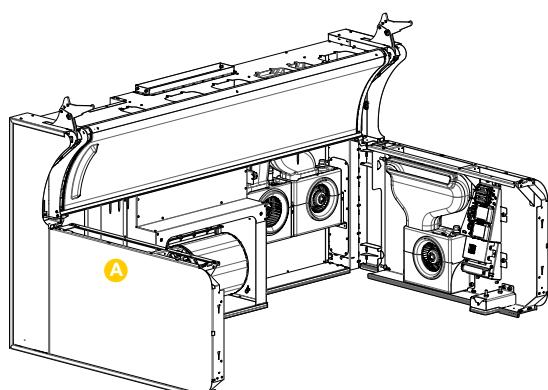


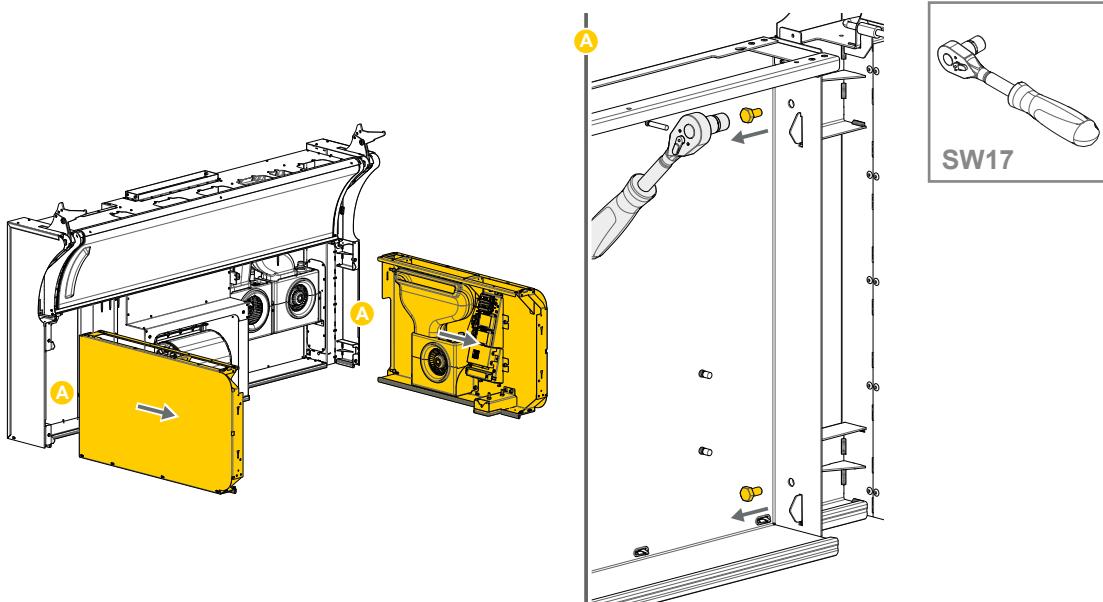
4.16 Remove feet

4.16.1 DISCONNECT THE CONNECTOR LOCATED ON THE RIGHT SIDE



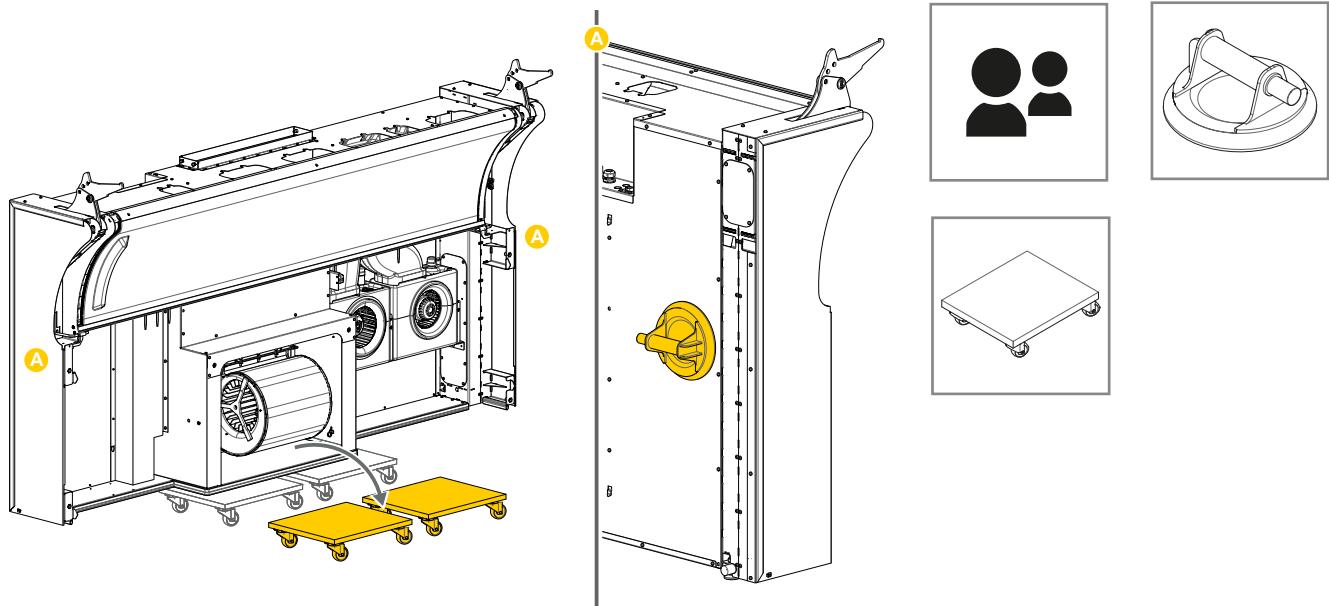
4.16.2 DISCONNECT THE CONNECTOR ON THE LEFT SIDE AND REMOVE THE PANELING



4.16.3 REMOVE FEET

4.17 Transport rear wall

4.17.1 TRANSPORT REAR WALL



5. Assembly

	Assembly sequence
Assembly is performed in reverse order to the disassembly instructions. Differences in the sequence are marked in red.	

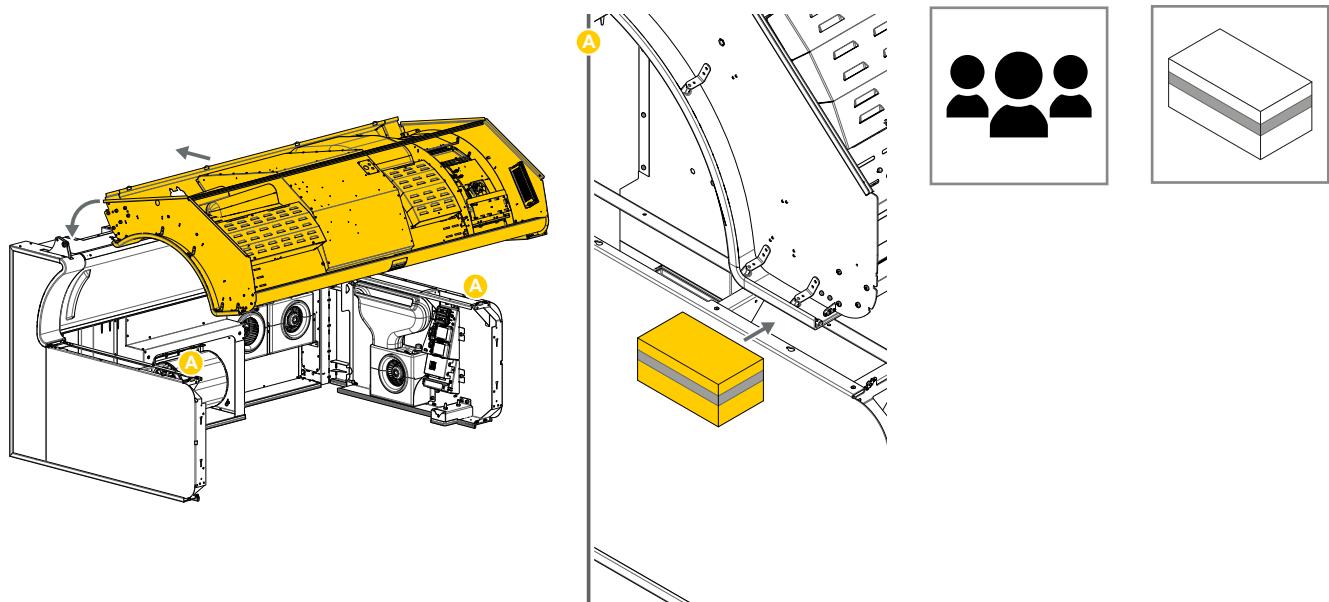
Assembly steps	Refer to chapter
Assemble the feet <ul style="list-style-type: none"> Assemble the feet Connect left side connector and install the paneling Connect right side connector 	4.16
Install lower part of the canopy <ul style="list-style-type: none"> Install Canopy Fasten intake air boots and mount cables and hoses 	4.15 5.1
Install upper part of the canopy	4.14
Assemble the canopy <ul style="list-style-type: none"> Install upper paneling Install side paneling Install WiFi / Bluetooth antenna Connect USB cable Connect the plug at the bottom right Install Infinity mirror Install air filter and knurled screws Install the plastic cladding Fasten the set screw 	4.13
Fold down the canopy	4.12
Install the rear vent stack <ul style="list-style-type: none"> Install vent stack Connect the plugs 	4.11

Assembly steps	Refer to chapter
Install electronic box <ul style="list-style-type: none"> • Install electronic box • Open electronics tray • Connect mains cable • Connect main fan plug • Connect patch and channel selection cable • Install the cover plate of the electronics tray • Connect ground cable • Connect plugs 	4.10
Install the bed <ul style="list-style-type: none"> • Install bed • Remove bed dampers • Connect plugs • Uninstall mounting handles 	4.9 5.3.1
Install air conditioner <ul style="list-style-type: none"> • Install air conditioner • Connect plug 	4.8
Install Aqua/Aroma unit <ul style="list-style-type: none"> • Install Aqua/Aroma unit • Install both hoses • Connect plug 	4.7
Install front panel <ul style="list-style-type: none"> • Install front panel • Connect plug • Install the screws • Install panels • Install filter element • Close bed 	4.6 5.4.1 5.4.2
Install the acrylic air guide pane and the bed pane <ul style="list-style-type: none"> • Install bed pane • Install telescopic props • Install acrylic air guide pane • Close bed pane 	4.5 5.7.2 5.7.1
Install back wall pane <ul style="list-style-type: none"> • Install plastic parts 	4.4

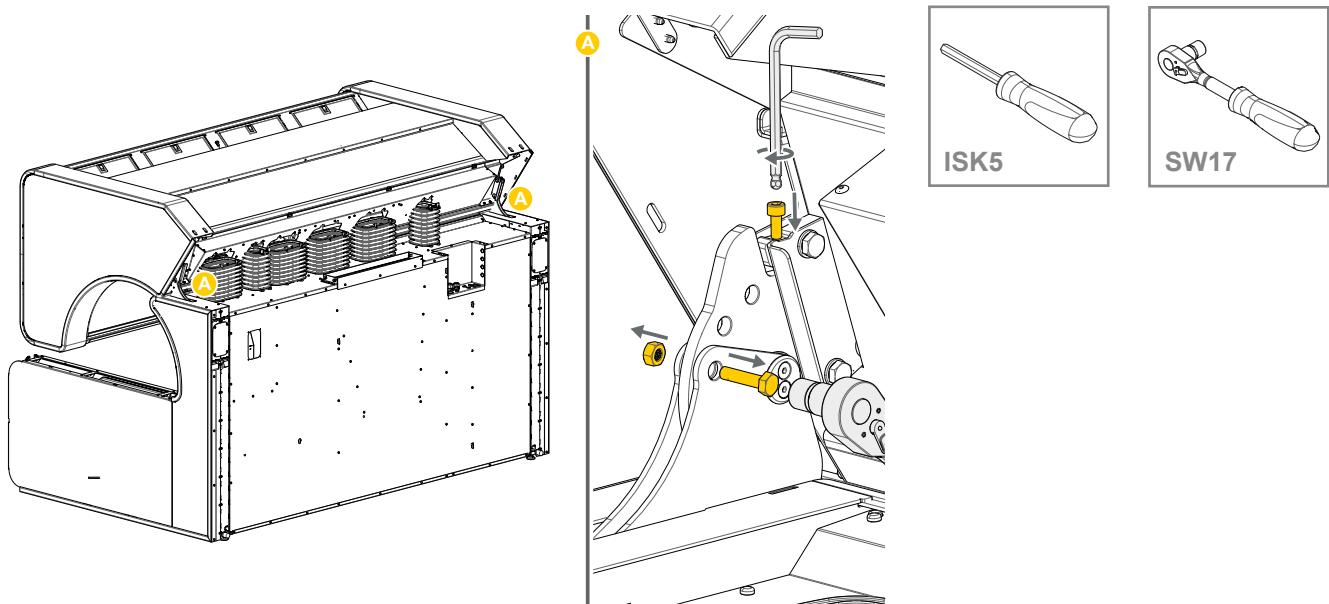
Assembly steps	Refer to chapter
Install shoulder tanner & air outlet foot <ul style="list-style-type: none">• Install shoulder tanner & air outlet foot• Connect plugs	4.3 5.6.1
Install display	5.2
Adjust the feet and the lock of the bed	5.5

5.1 Install canopy

5.1.1 INSTALL CANOPY

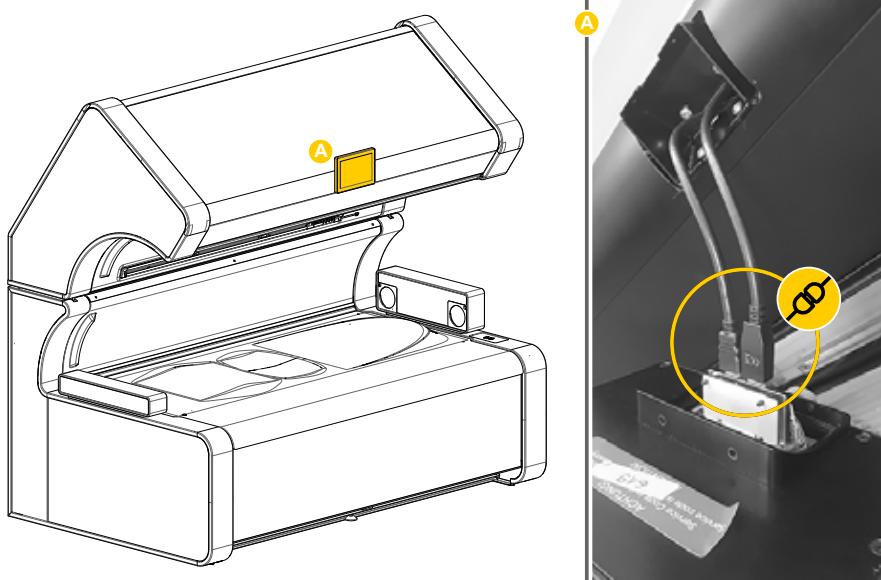


5.1.2 LOOSEN THE HINGE CATCH AND FASTEN LOCKING SCREW

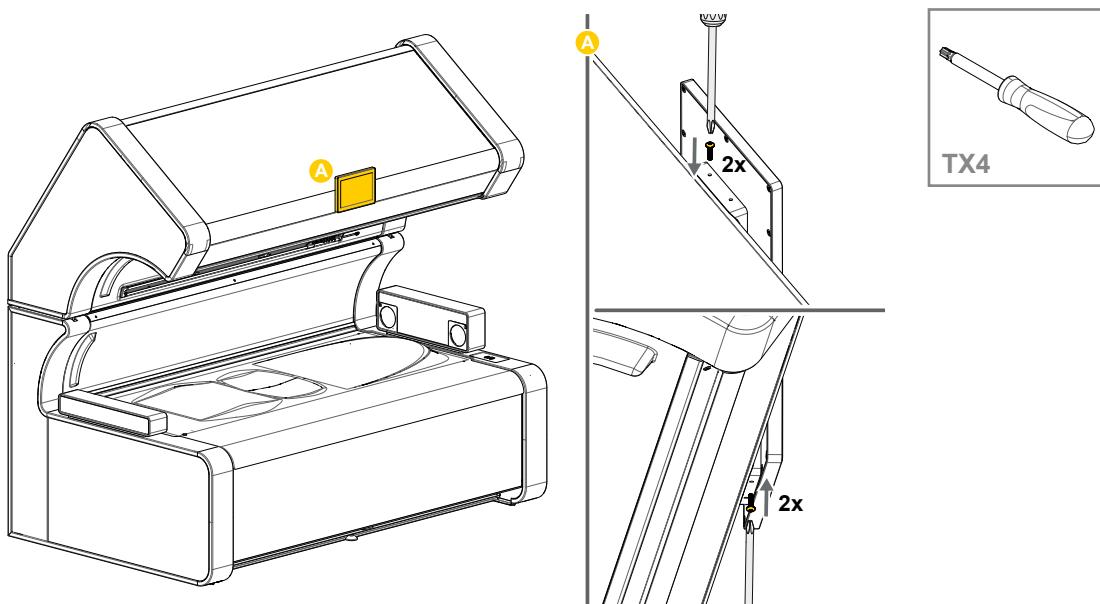


5.2 Install display

5.2.1 CONNECT PLUGS

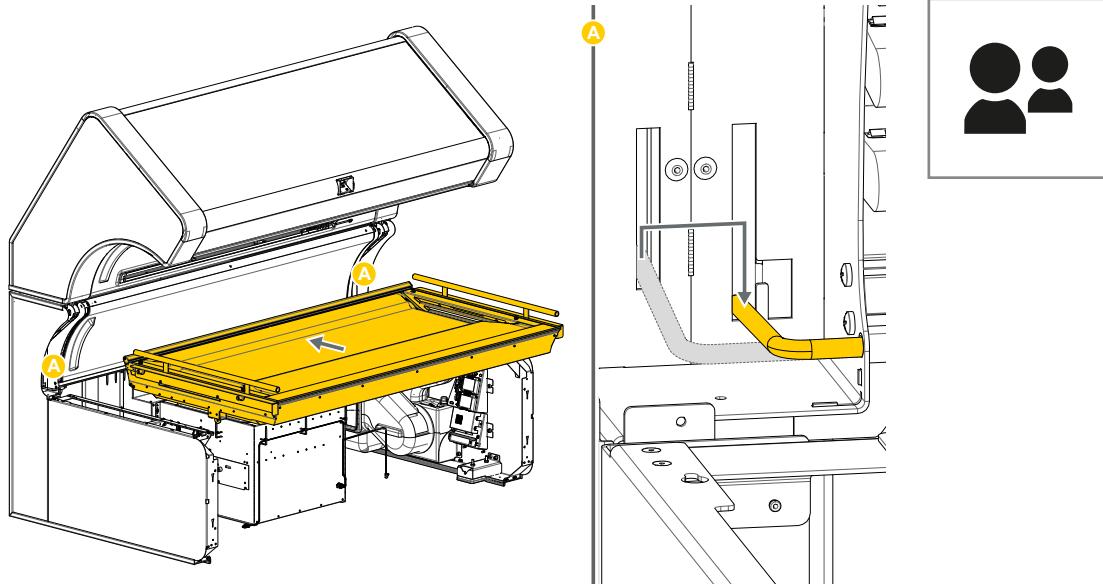


5.2.2 FIXING DISPLAY



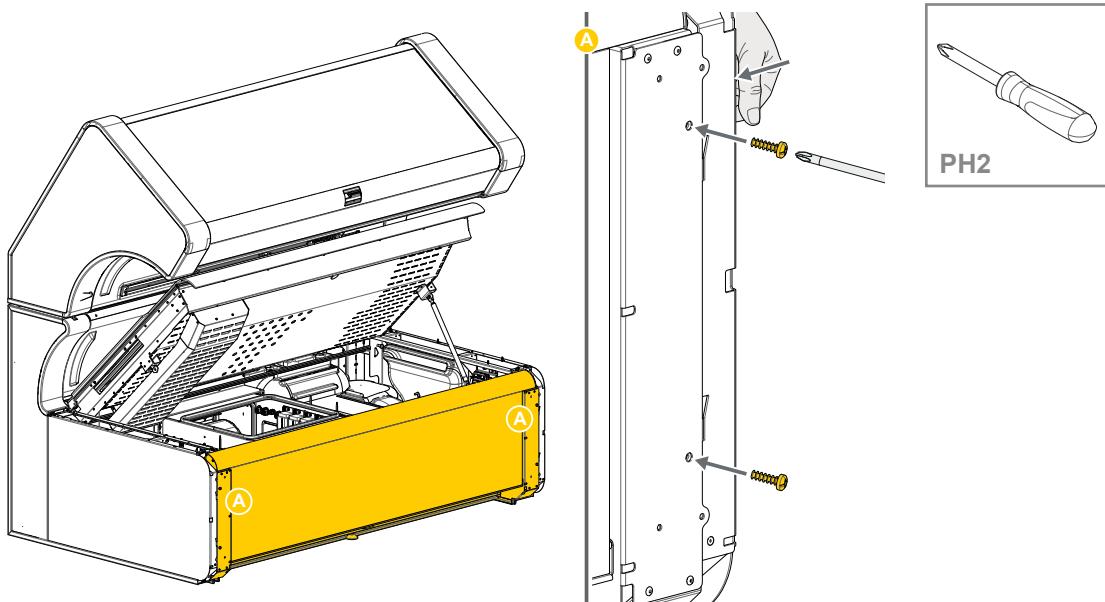
5.3 Install bed

5.3.1 INSTALL BED

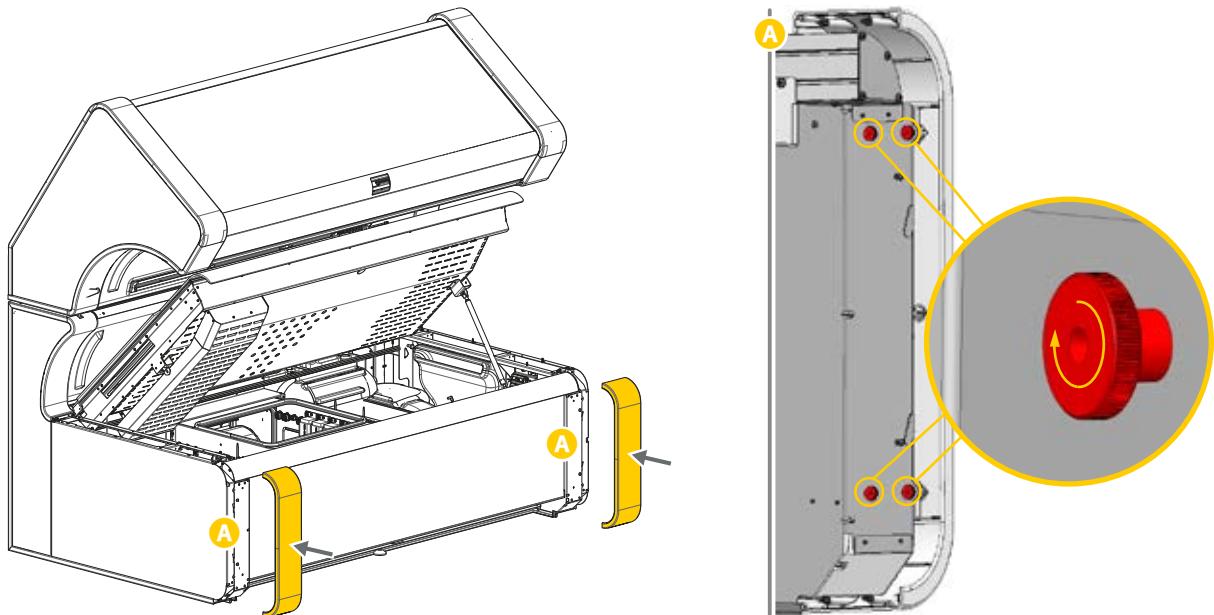


5.4 Install front panel

5.4.1 INSTALL FRONT PANEL



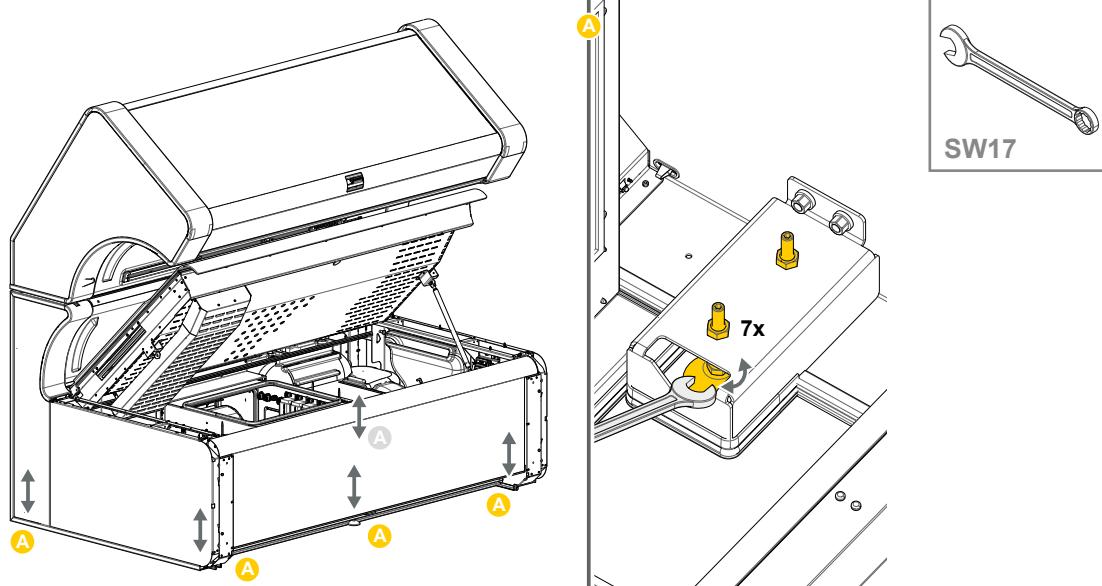
5.4.2 INSTALL PANELS



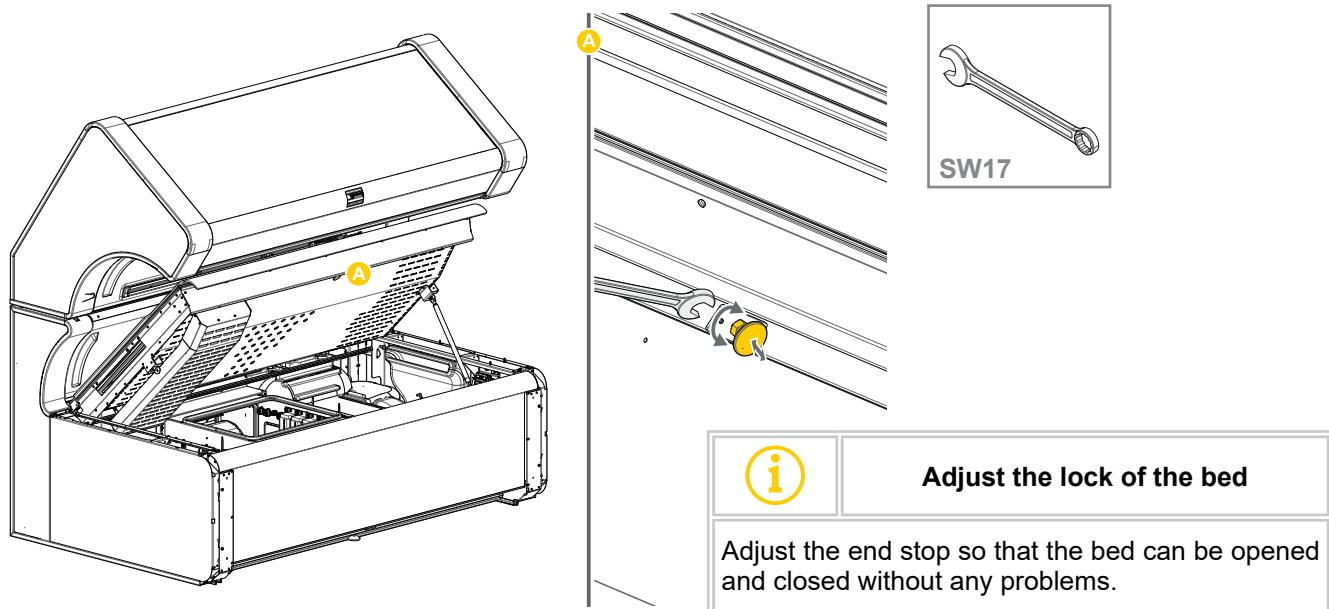
 M4 knurled nuts included in the mounting material.
(312.06-30109)

5.5 Adjust the feet and the lock of the bed

5.5.1 ADJUST FEET

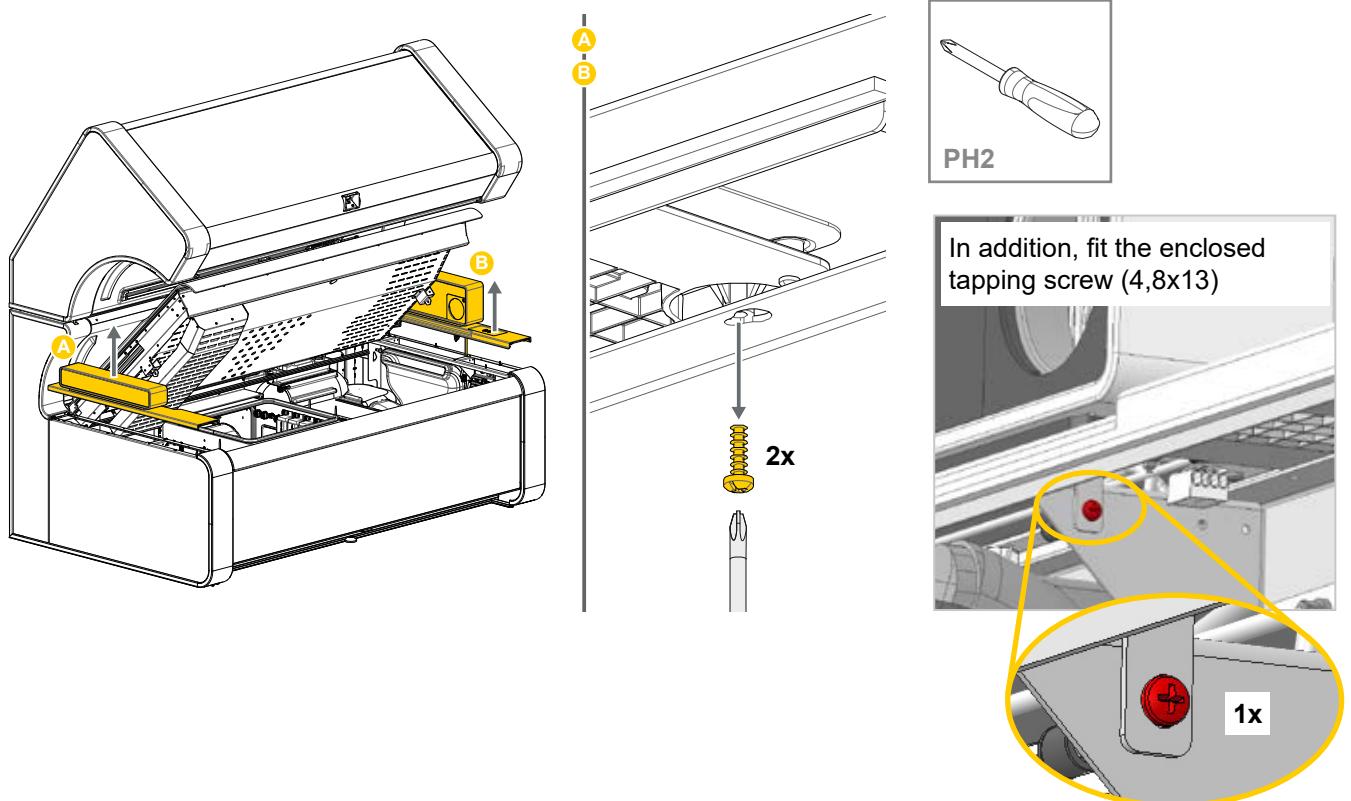


5.5.2 ADJUST THE LOCK OF THE BED



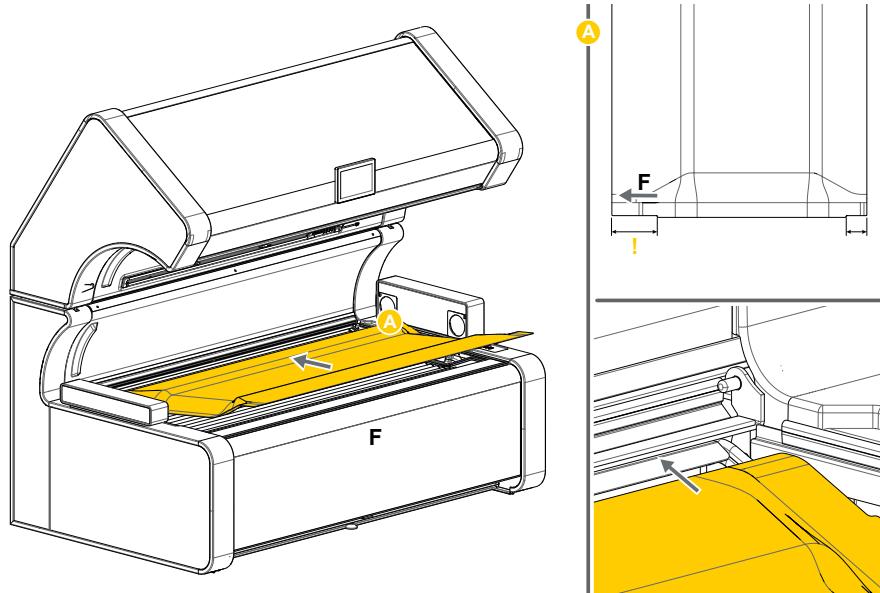
5.6 Install shoulder tanner & air outlet foot

5.6.1 INSTALL SHOULDER TANNER & AIR OUTLET FOOT

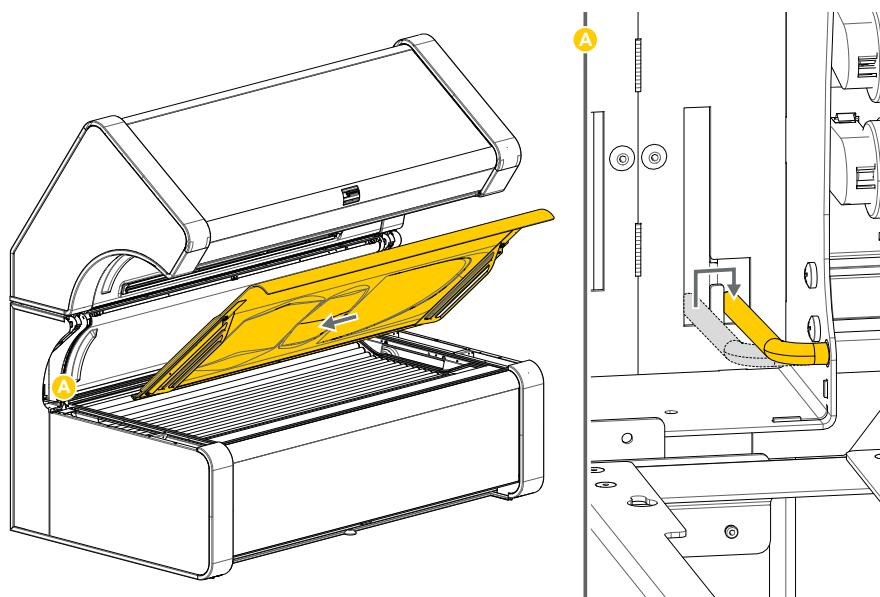


5.7 Install the acrylic air guide pane and the bed pane

5.7.1 INSTALL ACRYLIC AIR GUIDE PANE

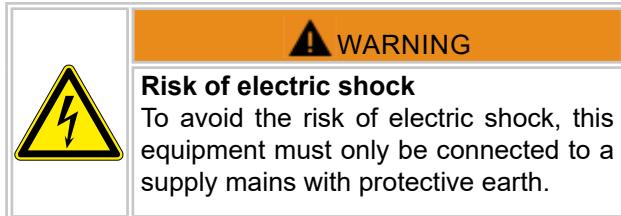


5.7.2 INSTALL BED PANE



6. Connections & Initial operation

6.1 Class I ME equipment



6.2 Connecting mains voltage



Both the power supply and the related connection work must comply with national standards and local regulations. The connection work and replacement of the power supply cord must only be performed by qualified, trained and authorized service technicians.

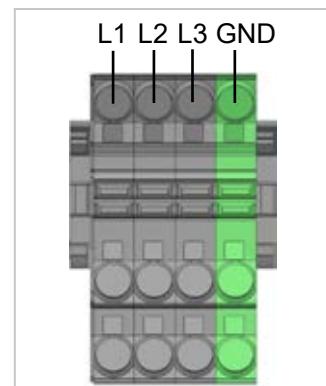
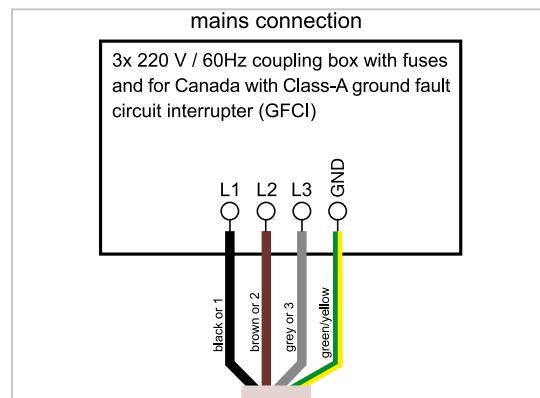
The connection to the 3 x 220 V mains must be protected by maximum over current protection. For Canada a Class-A ground fault circuit interrupter (GFCI) has to be used. Further information can be found in chapter "Technical data".

CONNECTION REQUIREMENTS

The electrical installation must be equipped with a freely accessible all-pole disconnecting device in accordance with the overvoltage category III (Master switch with clearly marked on/off settings e.g. "O" and "I" or additional indicator light), fitted externally on the site side. This means that for full separation each

pole must have a contact gap according to the conditions of the overvoltage category III. The device shall be capable of being locked in the off-position and shall comply with IEC 60447. A supply main switch must not be incorporated in the power supply cord. A Class-A ground fault circuit interrupter (GFCI) has to be used for Canada. Should the operation of the tanning device cause any interference in the power supply network, e.g. with ripple-control systems (TRA), consult your power supply company to have corresponding blocking elements (audio frequency suppressors) installed.

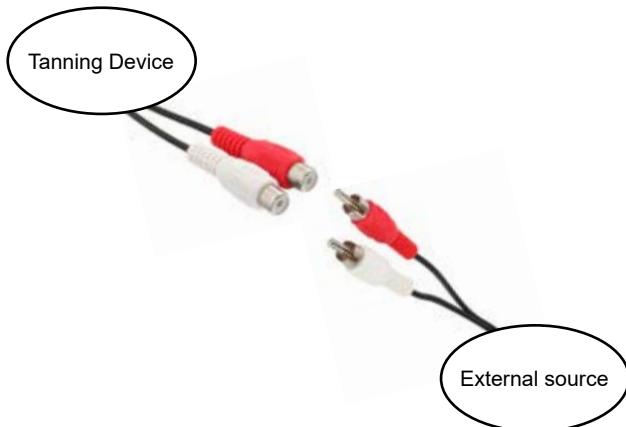
WIRING FOR 3-PHASE OPERATION



3-Phase Operation
(3 x 220V / 60Hz)

6.2 Connecting an external audio source

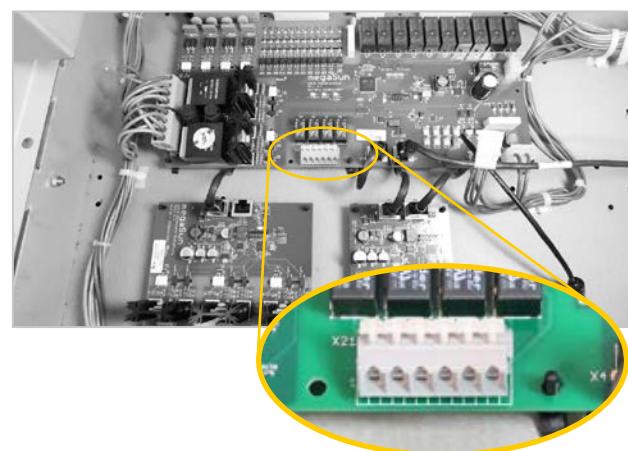
When connecting an external audio source (studio music), pay attention to the correct polarity.



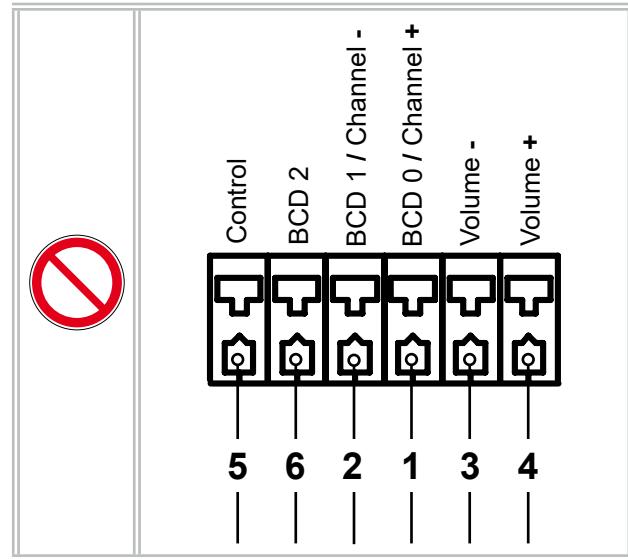
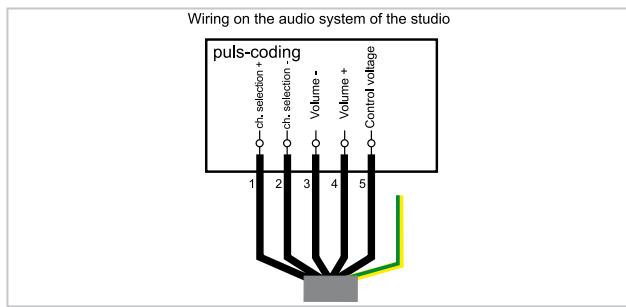
CHANNEL	BCD 0	BCD 1	BCD 2
1	0	0	0
2	1	0	0
3	0	1	0
4	1	1	0
5	0	0	1
6	1	0	1
7	0	1	1
8	1	1	1

6.3 Connecting channel selection

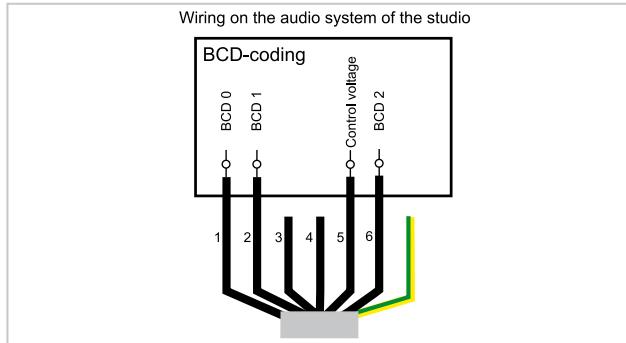
The following diagrams show the wiring of the channel selection on the audio equipment's side, for pulse coding as well as for BCD coding.



PULS



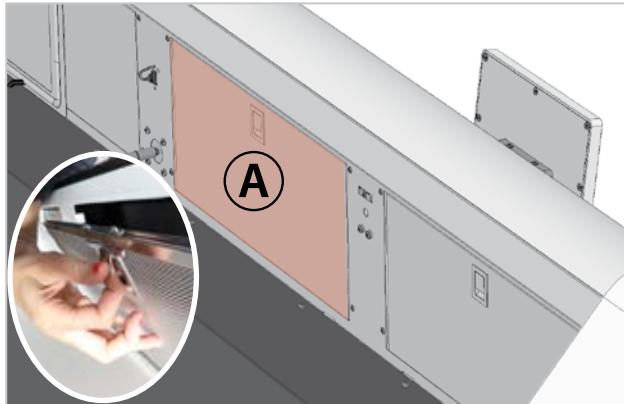
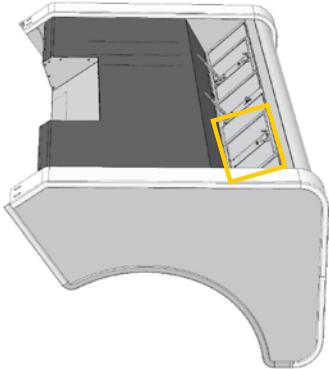
BCD



6.4 Level adjustment studio music signal

The components of the voice / audio system are installed in the canopy. For level adjustment, the second filter cartridge from the left must be removed.

REMOVE THE FILTER CARTRIDGE

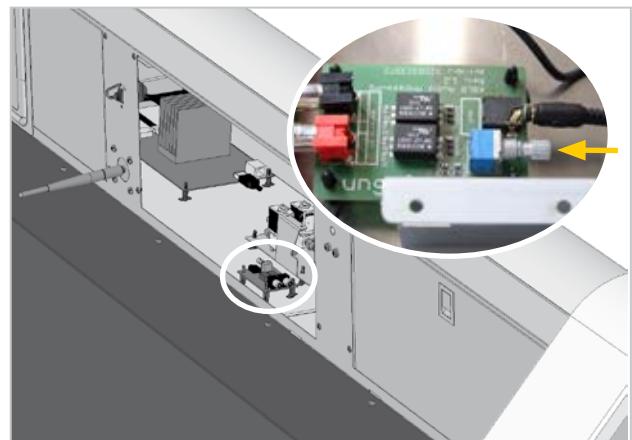


A Remove filter cartridge.



Installation instructions for filter cartridges:
-> Retaining clips always faced outwards!

The level adjustment potentiometer is located on the level adjustment board. To avoid overdrive, select the level adjustment accordingly. The level setting depends on the strength of the external signal and should be carried out by a service engineer.

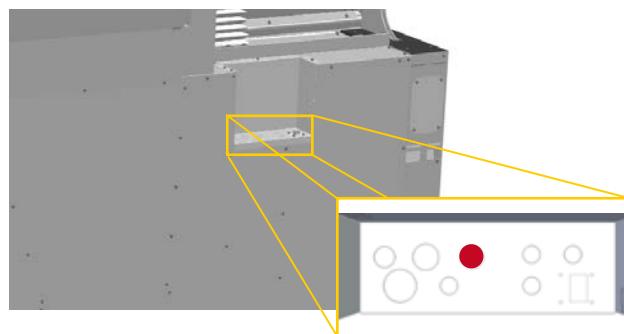


Further adjustments can be made in the service menu.

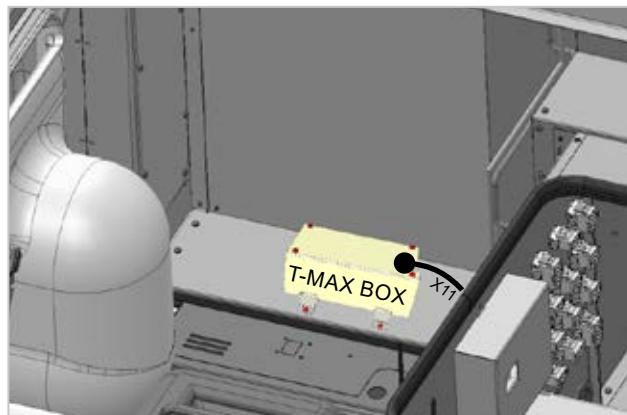
6.5 Connecting external timer

Lead the external connector cable of the T-Max timer from the main connection plate through to the T-Max box.

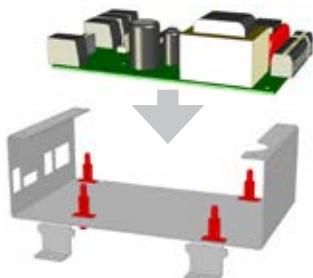
T-MAX CABLE ENTRY AT THE MAIN CONNECTION PLATE (EXTERNAL CONNECTOR CABLE)



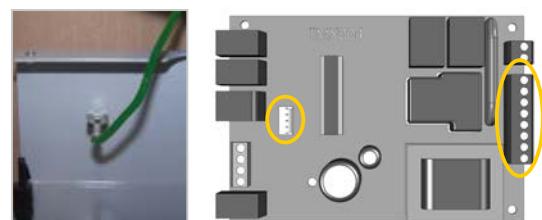
POSITION T-MAX BOX



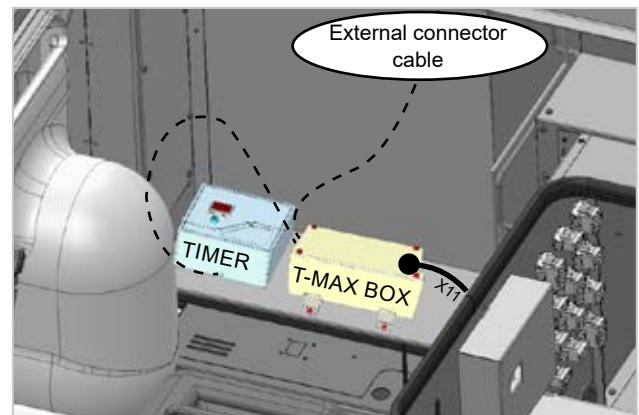
- Remove the cover from the T-Max box.
- Insert the T-Max board to the socket pins of the box.



- Attach the connectors to the T-Max board and housing (ground).



- Attach the cover of the T-Max box.
- Place T-Max timer left sided to the T-Max box on the rear wall baseplate.



- Connect the external cable and the T-Max timer to the T-Max box.

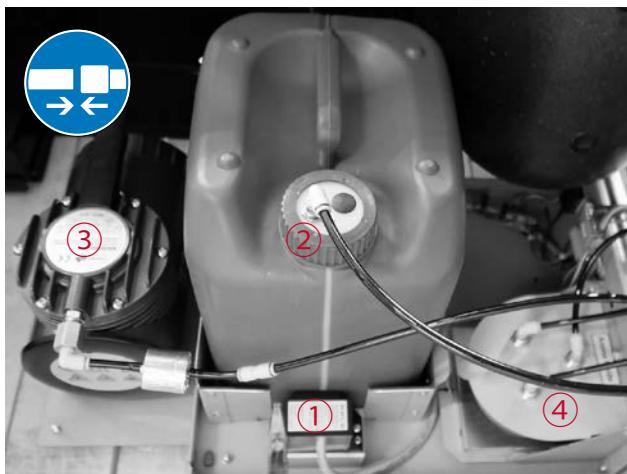


- The exposure times stated in the exposure schedule must be entered at the external timer.
- Information on how to enter the exposure time can be found in the operating instructions of your external timer.

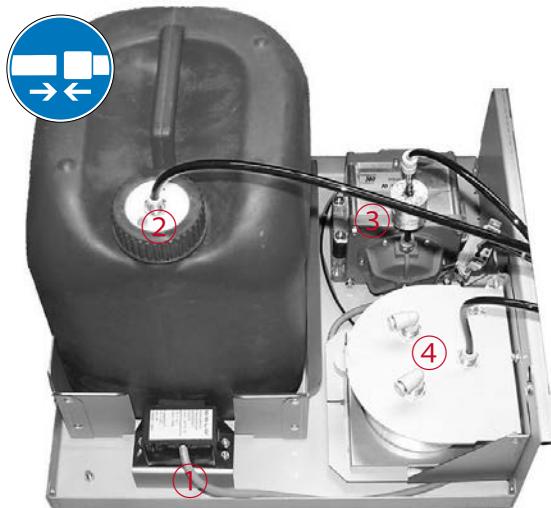
6.6 Aqua Cool and Aroma connections

AQUACOOL

The Aqua Cool box is equipped with a liquid-level sensor **①** as well as with a connection to the Aqua Cool canister **②**. Furthermore, the box houses the compressor ensuring the compressed-air supply **③**, and the Aroma box **④** with its related connections.



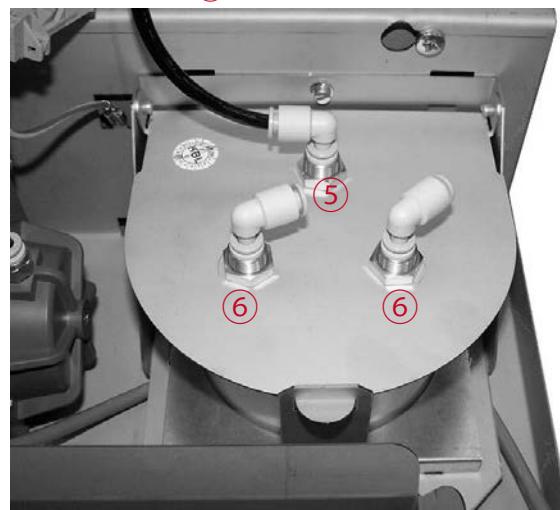
FURTHER POSSIBLE CONSTRUCTION TYPE



1	Connector (liquid-level monitoring)
2	Connection to Aqua Cool canister
3	Compressor with compressed-air connection
4	Aroma box

AROMA

The Aroma box is attached within the Aqua Cool box and equipped with three hose connections, one for the compressed-air supply **⑤** and two leading to the Aroma nozzles **⑥**.

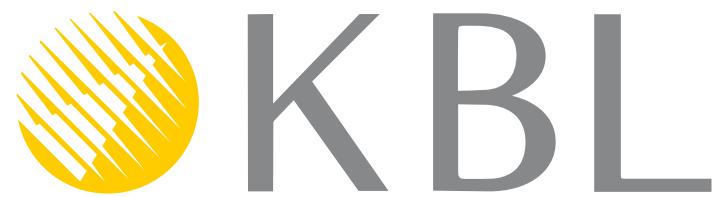


5 Aroma box (inlet)

6 Aroma box (outlets)

6.7 Initial operation

- Turn on the supply voltage.
- Start the Aqua Cool initialisation before tanning for the first time. Service menu “Aroma / Aqua Cool Start Initialisation“.
- Test all functions in a trial run.
- Remove all protective films.
- Clean the tanning device.



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