

Service Instructions

Model-No.: PL191/..

1032876-00 / en / 10.2024

Ergoline

Legal notice



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The figures and wording apply to model no.: PL191/..., even if only one unit is shown.

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1 General



1.1 Symbol explanation

The following types of safety notices are employed in these operating instructions:

 DANGER!



Type and source of hazard
This safety notice indicates the existence of a direct danger to body and life.

 DANGER!



Type and source of hazard
This safety notice warns of dangers to body and life which are caused by electricity.

 WARNING!



Type and source of hazard
This safety notice warns of machine, material or environmental damage.

WARNING!









ESD-sensitive components!
This safety notice warns of machine, material or environmental damage.



NOTE:
This symbol does not identify any safety notices, but provides additional information to better understand the processes.

Glossary

Symbol	Notes/Screw type
	Torx screw: loosen
	Torx screw: tighten
	Allen screw: loosen
	Allen screw: tighten
	Phillips screw: loosen
	Phillips screw: tighten





1.2 Safety information for assembly and disassembly

 DANGER!



Electricity is present throughout the entire unit! Assembly and connection to the mains electrical supply must comply with the national regulations (VDE in Germany).

The on-site electrical installation must be fitted with an easily accessible all-pole isolating device (master switch), that complies with overvoltage category III. This means that each pole must have a contact opening width that complies with the conditions of overvoltage category III for full isolation.

If the connection is a plug connection, a plug system should be used that conforms to the current version of EN 60309.

Assembly, installation, upgrading or repair of the unit may only be carried out by specially trained and instructed personnel.

- All danger and safety information attached to the unit must be observed!
- Safety equipment (e.g. panel switches) and safety information must not be removed or deactivated as this might impair the safe operation of the unit!
- The unit is only to be handed over to the operator in a flawless condition!
- Assembly is only to be carried out in the order stipulated in these assembly instructions!
- The unit must be disconnected from the power supply during assembly and disassembly work on the electrical equipment (see page 12). Exceptions to this are only permissible for functional tests!
- A timer control must be fitted so that the unit automatically switches off at the latest after <110% of the selected running time of the unit, even if the control fails. The unit running time must be provided with double protection by the use of a timer control that complies with the standard EN 60335-2-27.
- Do not change, obstruct or block the air inflow and outflow area to the unit or make any unauthorized changes to the unit. The manufacturer shall bear no liability for damage or injuries resulting from such actions.

1.3 Safety information for avoiding damage to the unit



CAUTION!



The unit can be damaged or destroyed!

- Always perform assembly work in the order specified in the assembly instructions # 1031975-...

2 Information for service technicians

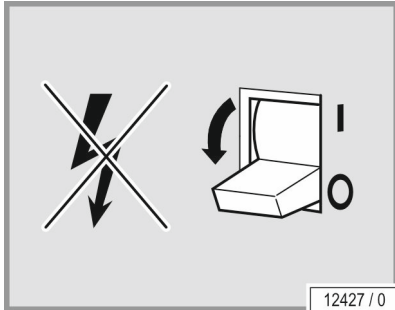


2.1 Electrical connection

- Only permit a licensed electrical engineering company to make the electrical connection on the building side (mains socket)! Observe the national regulations in the country where the unit is operated. Install data and/or control cables at least 10 cm away from the mains cable. Install the mains connection before the unit is assembled.
- We recommend that a selective residual current device with a rated trip current of 30 mA is installed. Only connect one unit to any given residual current unit.
- Connect the unit to a circuit breaker.
- Select the power cable cross-section in accordance with the national regulations (in Germany: VDE0100), e.g. taking into account power cable lengths and the connection power used. An individual power cable is required for each unit. Ensure that the labelling shows the assignment to the unit.
- The on-site electrical installation must be fitted with an easily accessible all-pole isolating device (master switch), that complies with overvoltage category III. This means that each pole must have a contact opening width that complies with the conditions of overvoltage category III for full isolation.
- If the connection is a plug connection, a plug system should be used that conforms to the current version of EN 60309.
- Make sure that the connections and the associated fuses are readily accessible.



2.2 Disconnecting the unit from the power supply and secure it against re-connection



! DANGER!



Electricity is present throughout the entire unit!
Ensure that the units are de-energized before starting work on them. Make sure that all live cables are switched off.

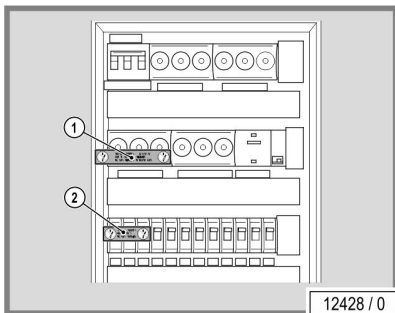
Switching off the unit alone is insufficient, as certain points may remain energized. Therefore, switch off fuses before performing any work and – if possible – remove them.

Risk of electric shock!

Severe accidents can occur due to mistaken re-connection.

Immediately after the de-energization, all switches or fuses used for de-energization must be secured against re-connection.

- Lock the fuse box with a padlock.



In case of circuit breakers which cannot be unscrewed, a strip of adhesive tape may be applied over the actuation lever with the wording 'Do not switch, danger!' (1 + 2).

A prohibition sign with the text:

'Work in progress!'

'Place:

'Sign may only be removed by:

must always be securely mounted immediately.

! DANGER!



Electricity is present throughout the entire unit!
Personnel danger due to electric shock or electric burns.

- Prohibition signs must not be fixed to live parts nor touch these.



2.3 Maintenance

DANGER



Risk of electric shock, which may lead to death or severe injury!

Disconnect the unit from the power supply when performing maintenance work that requires the unit to be opened. See page 11.

Once the maintenance work is complete, return all safety equipment (e.g. acrylic panels) to its original operating status.

2.4 Electrostatic discharge (ESD)

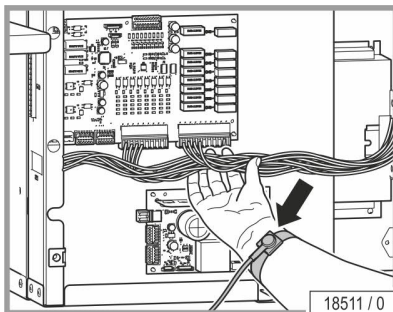
CAUTION!



ESD-sensitive parts!

Power connection boards and electrical, electronic or optoelectronic components are sensitive to electrostatic discharge and can be terminally damaged on contact.

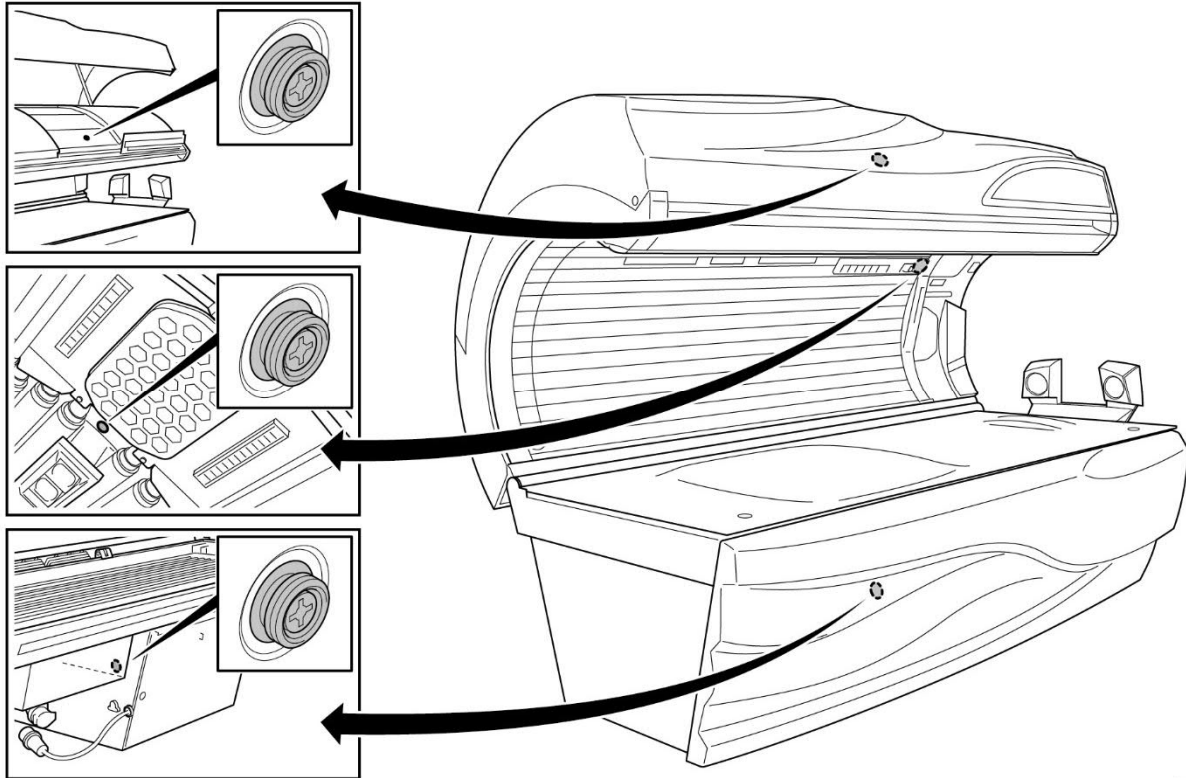
- Wear special ESD shoes.
- Always wear a grounding wrist strap when working in close proximity to electrical, electronic or opto-electronic components.



Before touching electrical / electronic components:

- Attach the wrist strap as per the manufacturer's instructions.
- Use the earth bonding points (EBP).

The unit is equipped with earth bonding points (EBP) allowing an earth connection of the wrist strap. The EBPs are located in several places in the unit.



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2.5 Technical data

2.5.1 Power, connection rating and noise level

Information on the technical data and dimensions can be found in the operating instructions for the respective unit.

3 Checking and replacing components



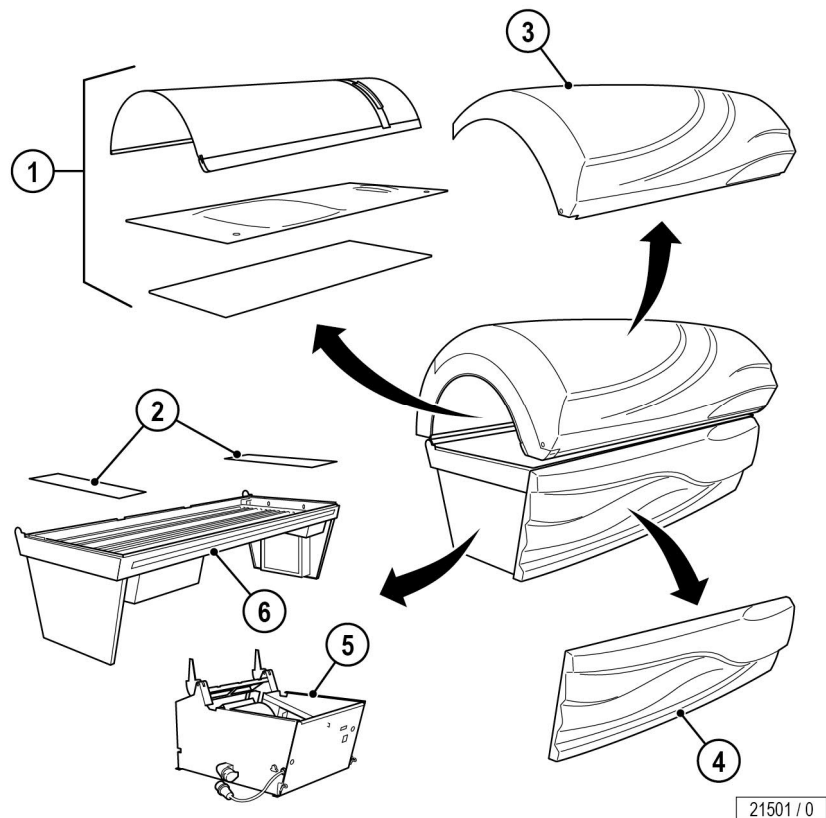
! WARNING!



Risk of hand injuries!

- Wear safety gloves during maintenance work.

3.1 Preparation



21501/0

1. Acrylic panels (canopy, bed panel, intermediate panel)
2. Lamp covers
3. Canopy hood
4. Front panel
5. Parts carrier
6. Base

Covers can be opened or removed when checking and replacing components. Further information is available in the assembly instructions # 1031975-... or in the respective operating instructions.

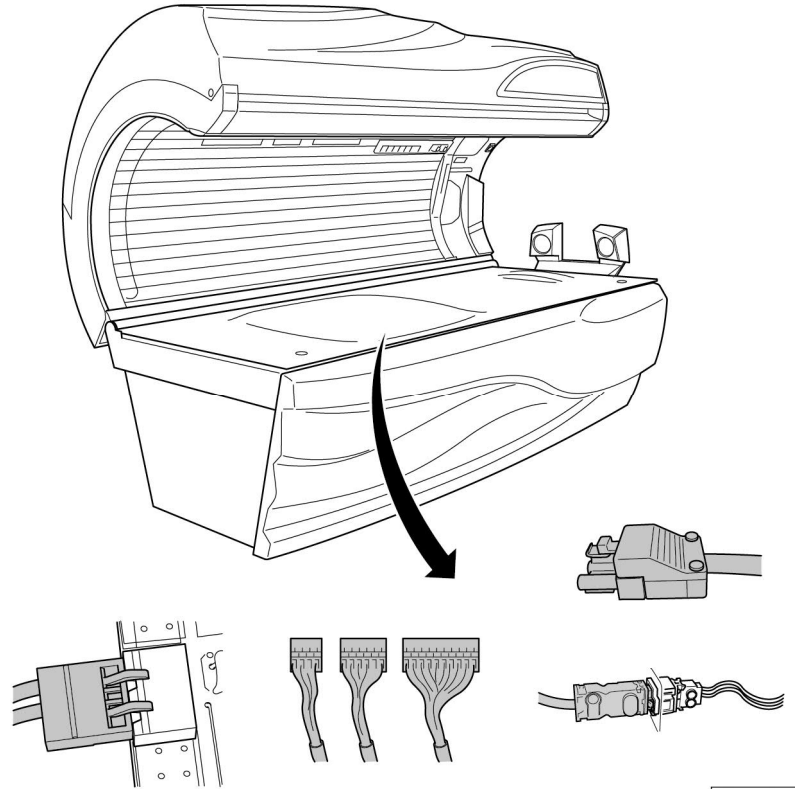


NOTE!

Assembly and disassembly of spare parts:
see assembly instructions # 1031975-... or in the
respective operating instructions.

3.2 Electrical connection

The electrical connections are located throughout the unit: in the canopy, at the head and feet end, in the parts carrier and in the front panel.



21502 / 0

- 3.2.1 Plug connector
1.1
- 3.2.2 Connector (CEE connection terminal)
1.2
- 3.2.3 Connection terminals
1.3
- 3.2.4 Internal terminals (spring-loaded)
1.4
- 3.2.5 Internal terminals (screw terminals)
1.5
- 3.2.6 Cable bushings
1.6
- 3.2.7 Electrical wires/cables
1.7

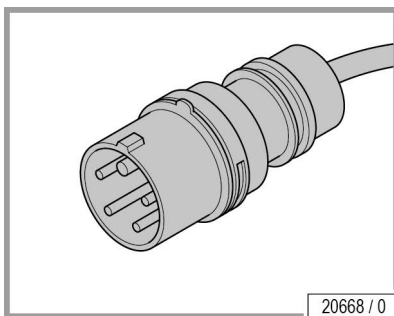


3.2.1 1.1 Plug connectors

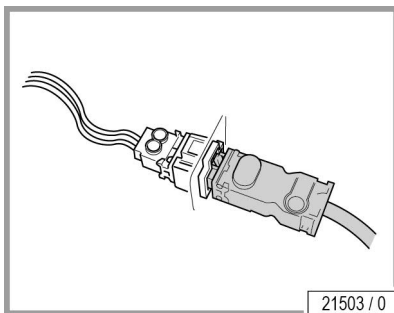
- Refer to the circuit diagram in the 'Electrical wires/cables' section on page Fehler! Textmarke nicht definiert. for the position of the plug connectors.
- Check or replace the components in accordance with the checklist # 1019858-...

Overview of connector types

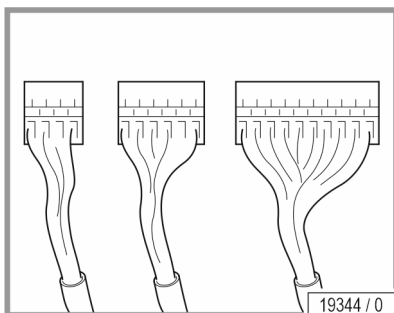
- Check the connector and socket connections for damage and discoloration.
- Check and tighten the connector and socket connections in accordance with the torque list.



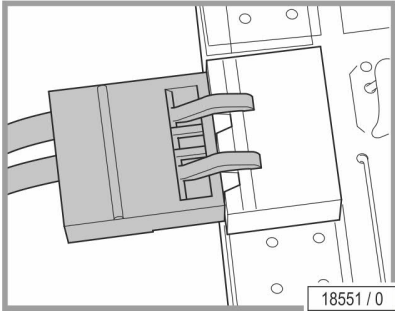
CEE connector (CEE connection terminal)



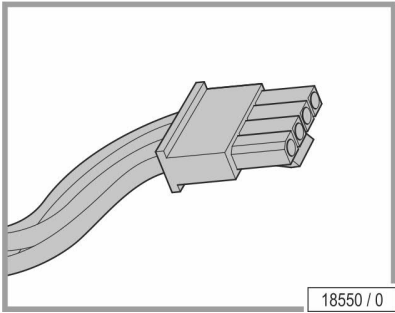
Panel switches



Circuit board edge connectors in a range of sizes.

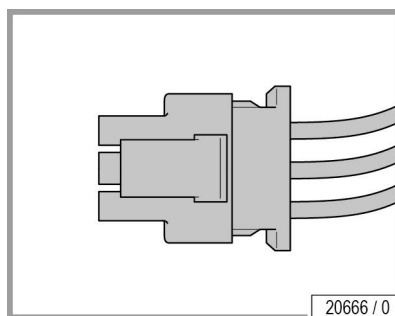
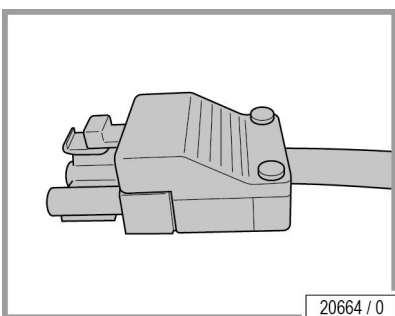
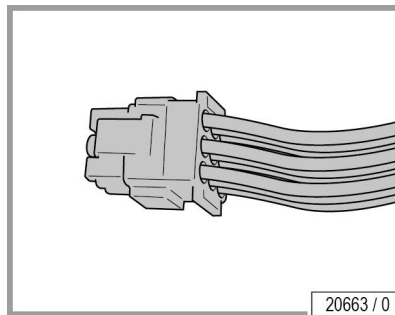
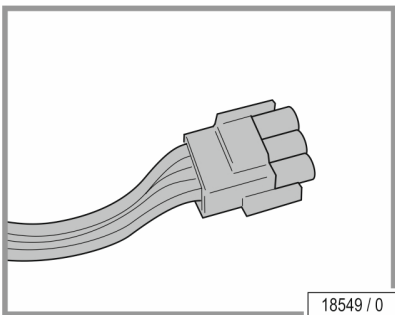


Electrical ballast connector.



Connector for the lighting control circuit board.

All-purpose 3-pin, 6-pin and 9-pin connectors





3.2.2 1.2 Connectors

 DANGER!



Switch off the unit before conducting any assembly/disassembly work.

- Switching off the unit alone is insufficient, as certain points may remain energized. Therefore, switch off fuses before performing any work and – if possible – remove them.

 DANGER!



Risk of electric shock!

Severe accidents can occur due to mistaken re-connection.

Immediately after the de-energization, all switches or fuses used for de-energization must be secured against re-connection

- Lock the fuse box with a padlock.



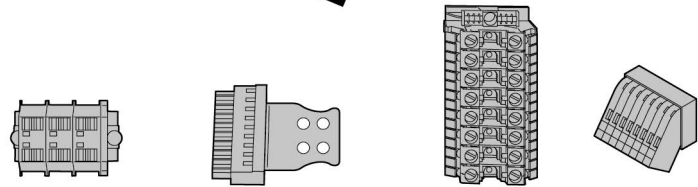
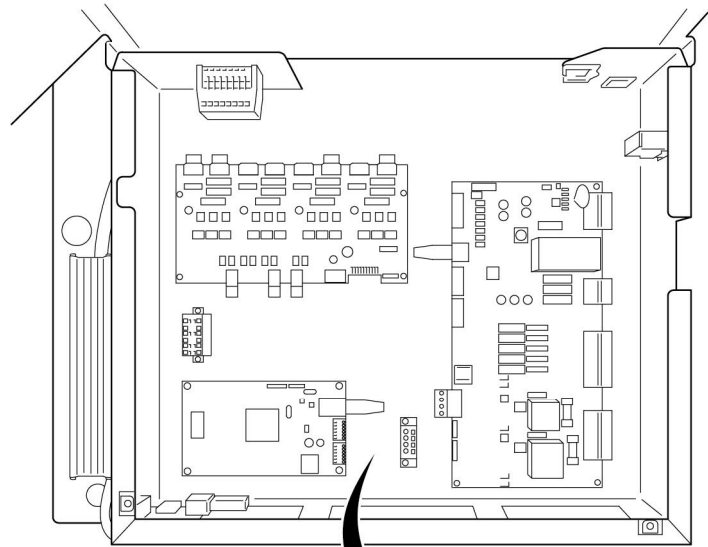
NOTE!

Pay attention to the specified torque!

The specified torque can be found on the homepage <http://jkproducts.us/service>

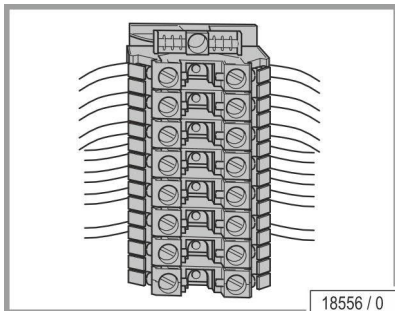
Service Information Torque Overview 1019633-00.

3.2.3 1.3 Connection terminals



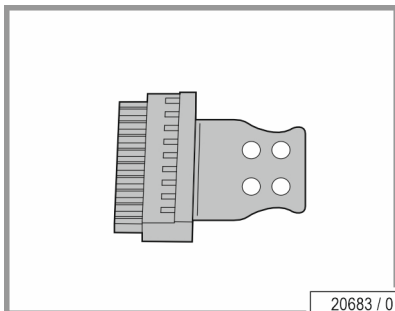
21504 / 0

- Check or replace the components in accordance with the check-list # 1019858-...



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- Check the connection terminals for damage and discolouration.



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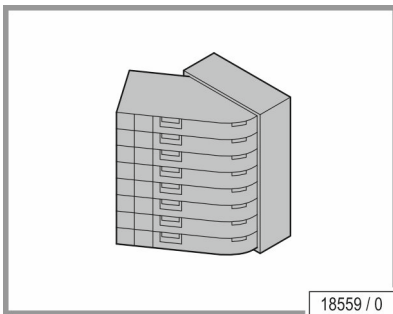
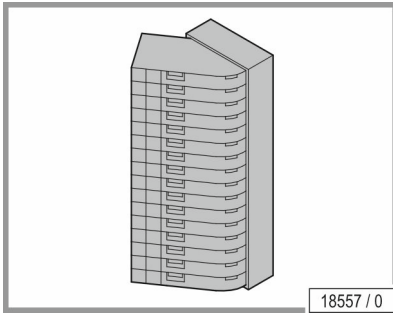


3.2.4 1.4 Internal terminals (spring-loaded)

- Check or replace the components in accordance with the check-list # 1019858-...

Overview of connection terminals

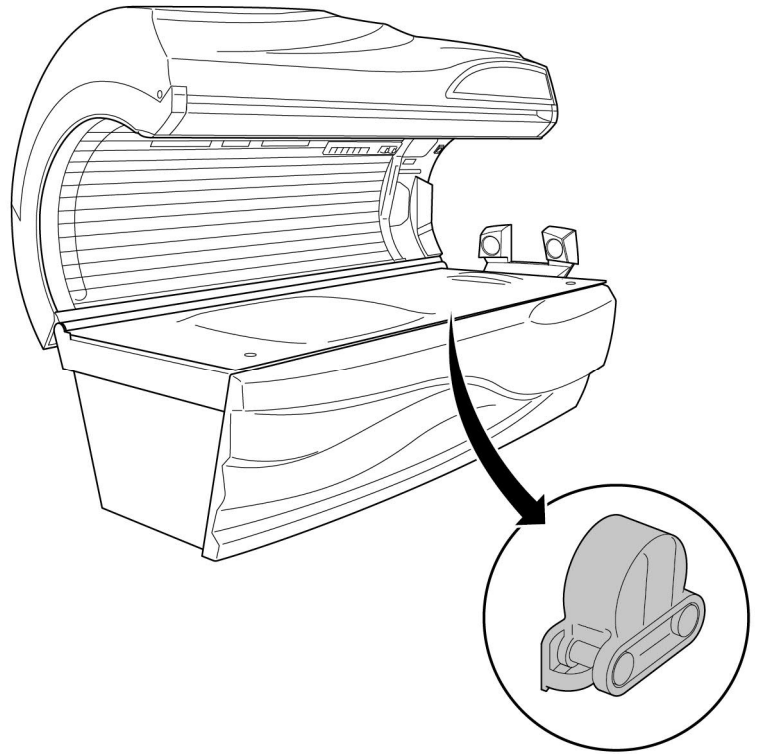
The terminals are located at the coin connection and on the audio board.



3.2.5 1.5 Internal terminals (screw terminals)

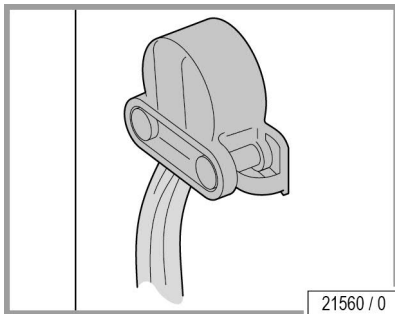
Refer to section 3.2.4 1.4 Internal terminals (spring-loaded).

3.2.6 1.6 Cable bushings



21505 / 0

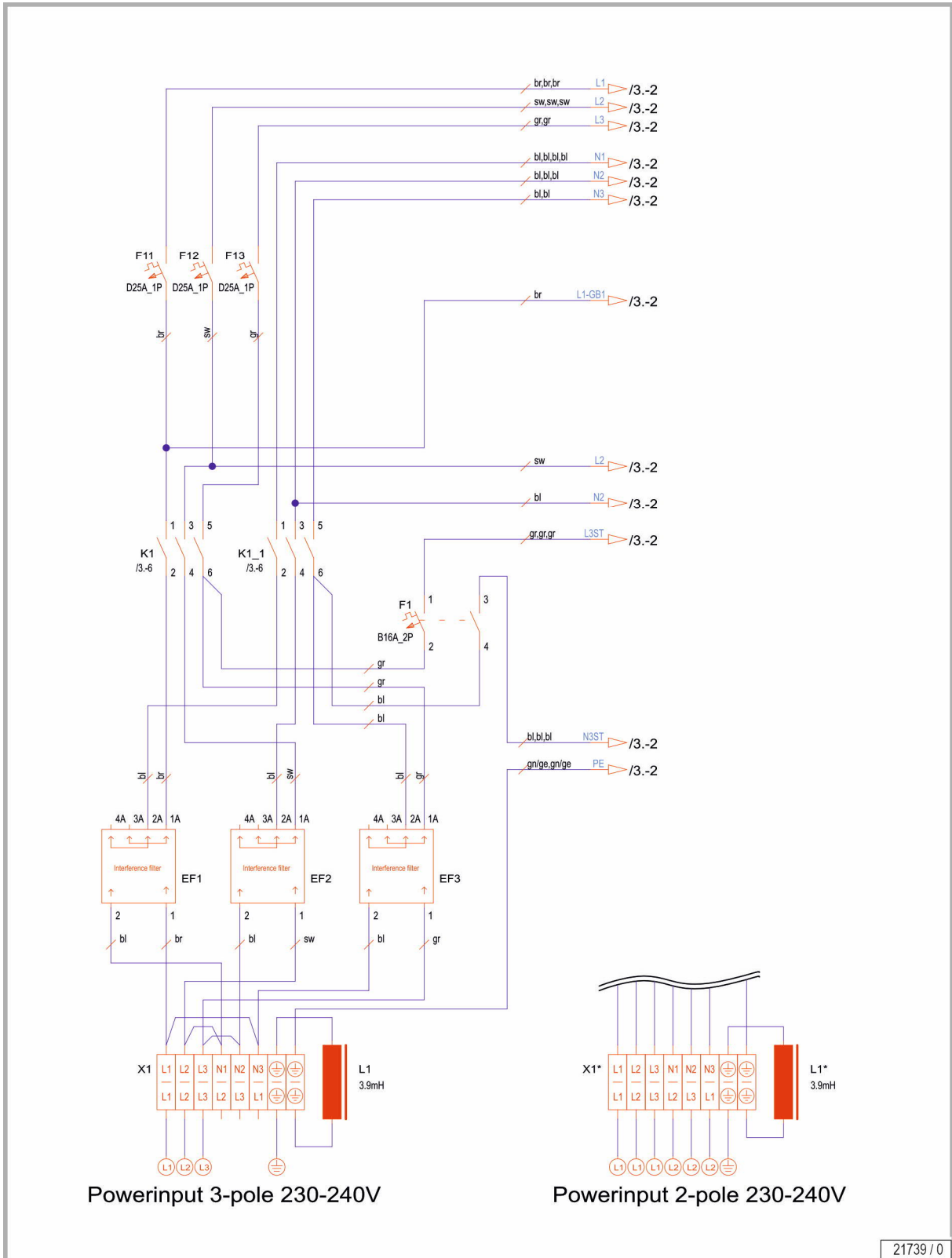
- Check or replace the components in accordance with the check-list # 1019858-...
- Check all visible cable bushings and edge protection for damage and correct fit.



21560 / 0

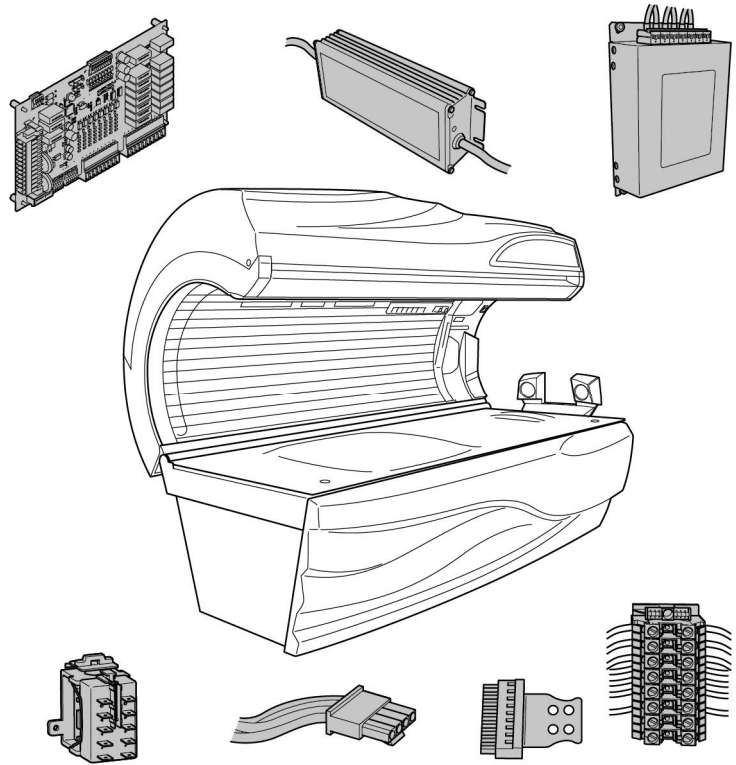
3.2.7 1.7 Electrical wires/cables

- Check or replace the components in accordance with the check-list # 1019858-...



NOTE!
Refer to the 'Annual inspection' document 1018811- ..

3.3 Electrical components



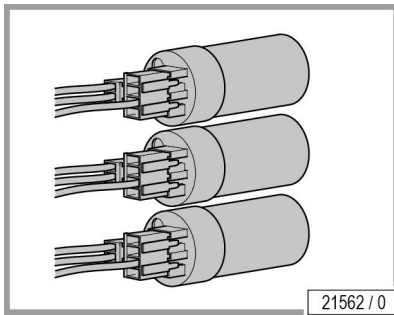
21561 / 0

- Check or replace the components in accordance with the check-list # 1019858-...

- 3.3.1 Electrolytic capacitors
2.1 Does not apply to this unit.
- 3.3.2 Interference suppressor filter
2.2
- 3.3.3 PCBs
2.3
- 3.3.4 Relays/contactors
2.4
- 3.3.5 Skin sensor
2.5 Does not apply to this unit.
- 3.3.6 Power supply units, switching power supplies
2.6
- 3.3.7 Audio
2.7

3.3.1 2.1 Electrolytic capacitors

Does not apply to this unit.



3.3.2 2.2 Interference suppressor filter

If installed, check for wear and damage.

Replacement:

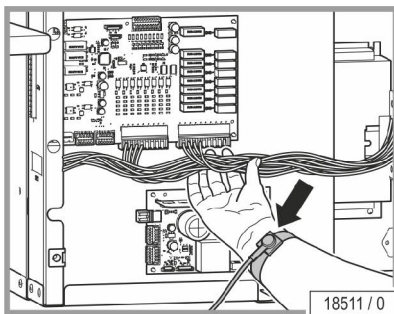
- Disconnect the connector
- Undo the M8 nuts
- Replace the interference suppressor filter

3.3.3 2.3 Power connection boards



NOTE!

The number of power connection boards depends on the unit's functions. Please refer to the technical documentation for the PCB order numbers.



Before touching electrical / electronic components:

- Attach the wrist strap as per the manufacturer's instructions.
- Use the earth bonding points (EBP).

 CAUTION!

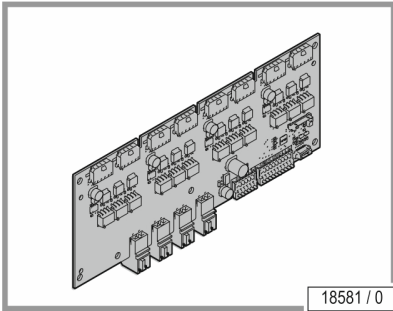


ESD-sensitive parts!

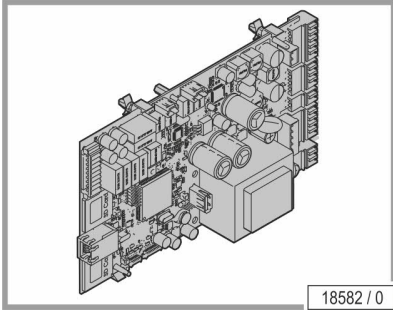
Power connection boards and electrical, electronic or optoelectronic components are sensitive to electrostatic discharge and can be terminally damaged on contact.

- Wear special ESD shoes.
- Always wear a grounding wrist strap when working in close proximity to electrical, electronic or opto-electronic components.

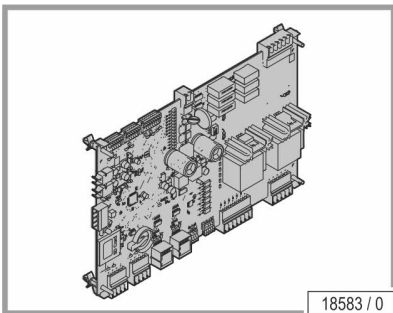
Control box



Lighting controller circuit board



Audio circuit board



Power control

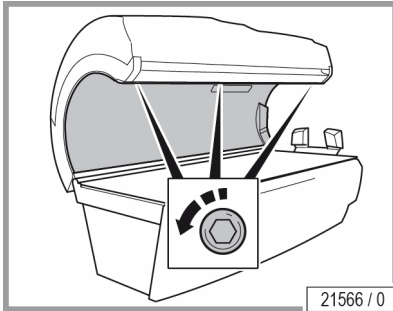
Replacing EASY CONTROL



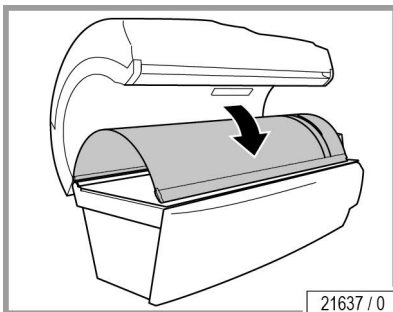
NOTE!

The service kit (cushion) is not included with every unit. Place a scratch guard, e.g. foam or cardboard, between the canopy and base to avoid damage to the unit.

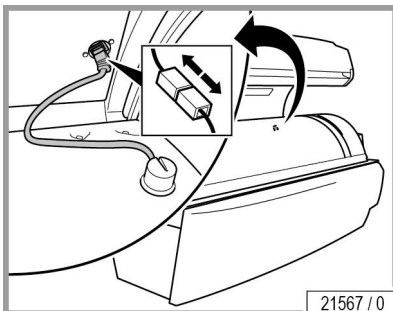
- Undo 3 screws.



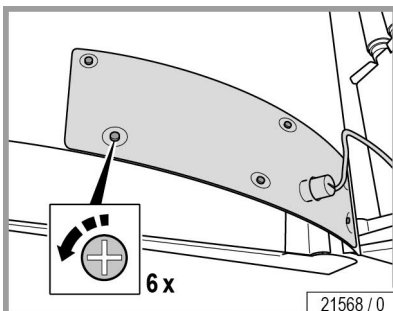
- Fold down the acrylic panel.

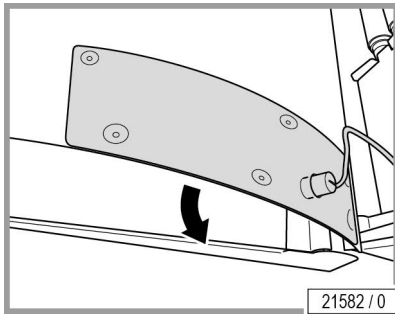


- Detach the patch cable.



- Undo the 6 screws on the EASY CONTROL.





- Replace the EASY CONTROL.



The new EASY CONTROL is installed in reverse order.

3.3.4 2.4 Relays/contactors

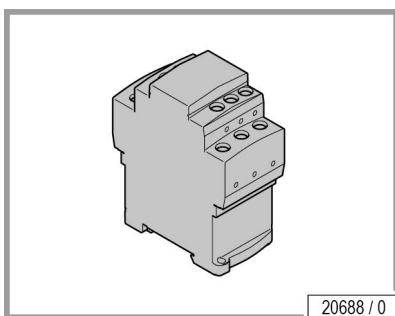
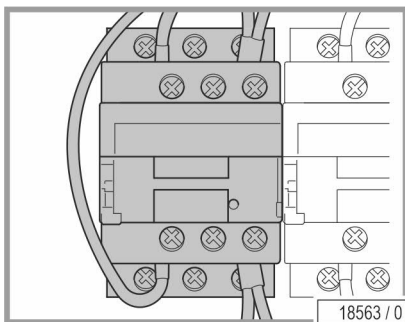
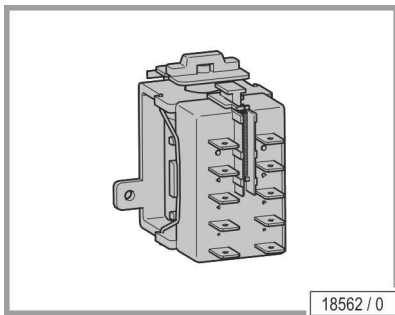
Replacement

Relays and contactors are located in the base of the unit.

- If installed, check for wear and damage.

Replacement:

- Remove the cable
- Remove the relay/contactator from the carrier
- Insert a new relay/contactator and clamp firmly in place
- Connect the cable
- Make sure that the cable is securely fitted



3.3.5 2.5 Skin sensor

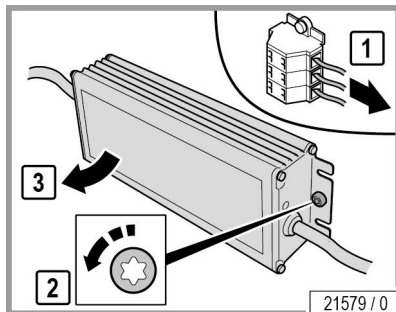
Not applicable for this device.



3.3.6 2.6 Power supply units and switching power supplies

Power supply units and contactors are located in the unit's canopy and base.

- Loosen the cable from the connection terminal.
- Undo the screws.
- Replace the power supply unit.

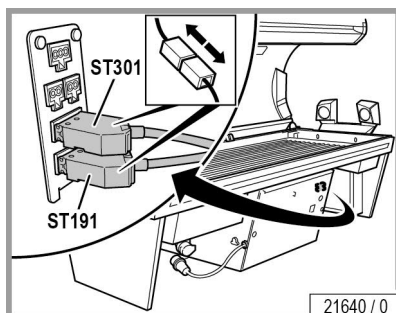


3.3.7 2.7 Audio

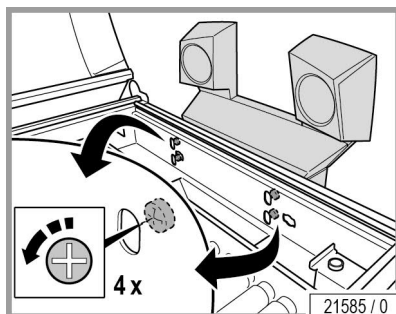
Replacing the audio system circuit board

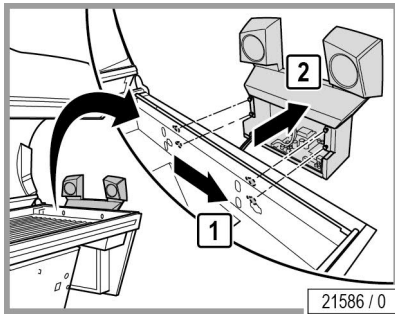
The front panel must be dismantled to loosen the connectors from the parts carrier.
See assembly instructions # 1031975-..., Chapter 5.1 'Removing the front panel'.

- Loosen the connectors from the parts carrier.

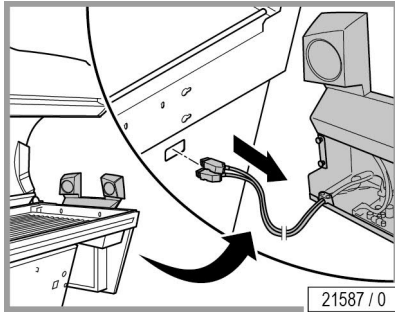


- Undo the screws.

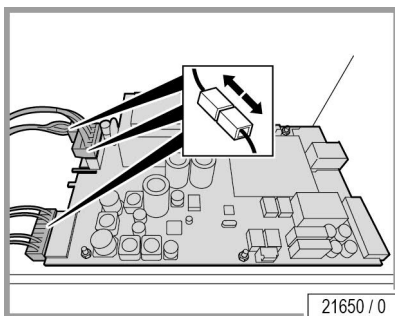




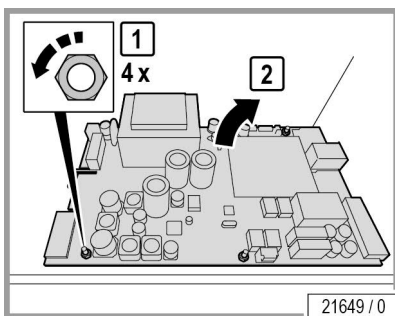
- Slide the audio system to the left and remove it.



- Carefully pull the cables with the connectors through the openings.



- Loosen the connector.



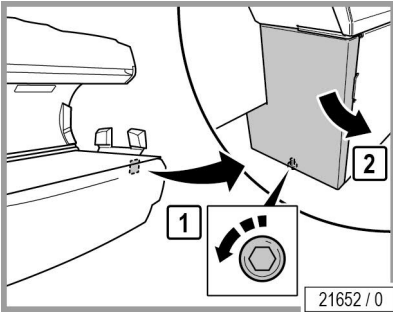
- Undo the nuts
- Remove the audio circuit board.

The new circuit board is installed in reverse order.

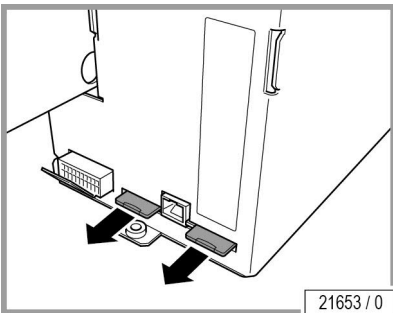
After replacing the audio control board:

- Check that the cable, subwoofer and loudspeaker are working properly.

Replacing the audio cards in the audio system



- Undo the screws and remove the panel.



- Replace the audio cards.

Assembly is carried out in reverse order.

3.4 Aqua Fresh



- 3.4.1 AF compressor
3.1 Does not apply to this unit.
- 3.4.2 AF valves / Aroma
3.2 Does not apply to this unit.
- 3.4.3 AF pumps
3.3 Does not apply to this unit.
- 3.4.4 AF aroma hoses
3.4 Does not apply to this unit.
- 3.4.5 Aqua Fresh liquid
3.5 Does not apply to this unit.
- 3.4.6 Aroma liquid
3.6 Does not apply to this unit.

3.4.1 3.1 AF compressor

Not applicable for this device.

3.4.2 3.2 AF valves / Aroma

Not applicable for this device.

3.4.3 3.3 AF pumps

Not applicable for this device.

3.4.4 3.4 AF aroma hoses

Not applicable for this device.

3.4.5 3.5 Aqua Fresh liquid

Not applicable for this device.

3.4.6 3.6. Aroma liquid

Not applicable for this device.



3.5 Air conditioning

- 3.5.1 Condensate pump
4.1 Does not apply to this unit.
- 3.5.2 Float switch
4.2 Does not apply to this unit.
- 3.5.3 Air conditioning system
4.3 Does not apply to this unit.
- 3.5.4 Heating
4.4 Does not apply to this unit.

3.5.1 4.1. Condensate pump

Not applicable for this device.

3.5.2 4.2. Float switch

Not applicable for this device.

3.5.3 4.3. Air conditioner

Not applicable for this device.

3.5.4 4.4 Heating

Not applicable for this device.



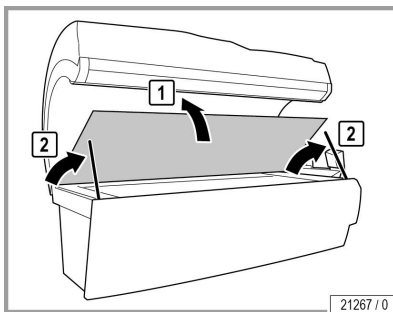
3.6 Acrylic

- 3.6.1 Acrylic bed panel
5.1
- 3.6.2 Acrylic panel canopy
5.2
- 3.6.3 Acrylic panel side panel
5.3
Does not apply to this unit.
- 3.6.4 Acrylic panel intermediate panel
5.4
- 3.6.5 Acrylic panel shoulder tanner panel
5.5
Does not apply to this unit.
- 3.6.6 Headrest
5.6
Does not apply to this unit.

- Check or replace the components in accordance with the checklist # 1019858-...

Further information is available in the assembly instructions or operating instructions for the respective unit.

3.6.1 5.1 Acrylic bed panel

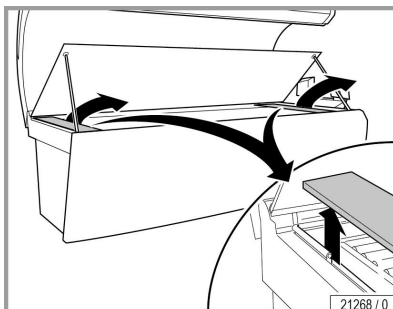


- Lift up the acrylic glass panel.
- Set up the brackets and prop the acrylic glass panel on the brackets.

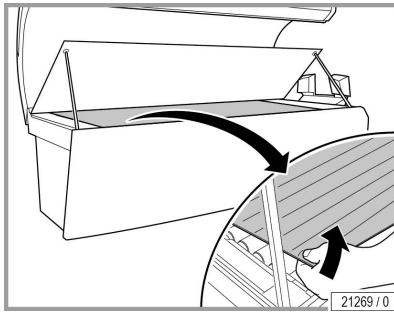
WARNING!



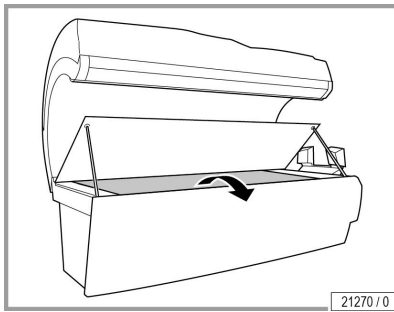
Risk of scratching!
Use the recesses provided on the acrylic glass panel.



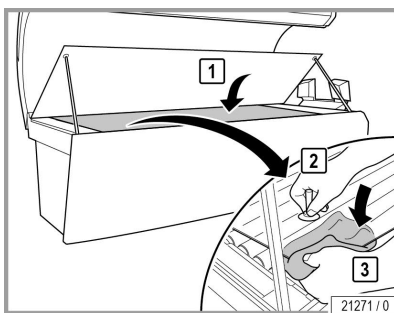
- Remove the lamp covers at the head and foot ends.



- Lift up the partition with the suction cup.



- Remove the partition.

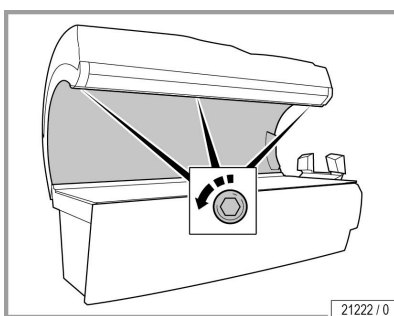


The assembly is the same process in reverse order.

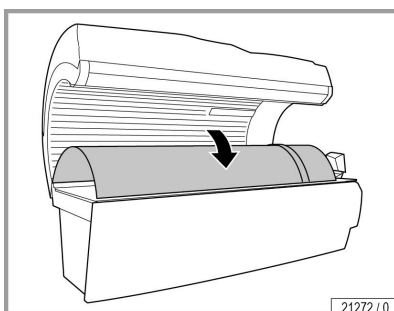
When assembling please note:

- Clean the partition.
- To protect against fingerprints, hold the partition with a cloth.

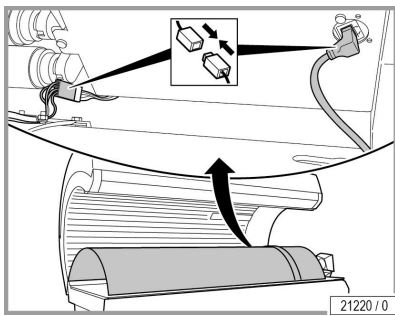
3.6.2 5.2 Acrylic canopy panel



- Undo the screws.
- Support the canopy panel with one hand so that it doesn't fall down.

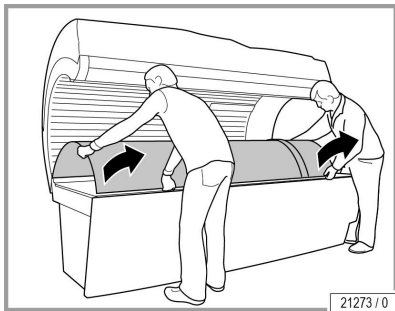


- Place the canopy panel carefully to one side.

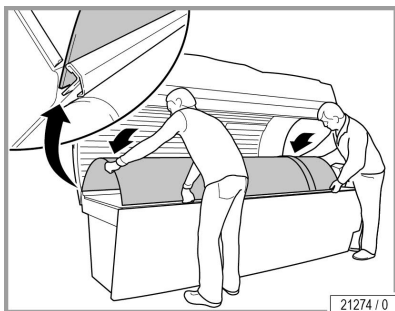


To replace the low-pressure lamps, the canopy panel must be completely removed from the device.

- Pull out the plug.

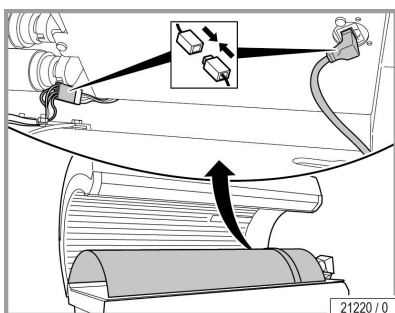


- Have another person help you to remove the canopy panel.

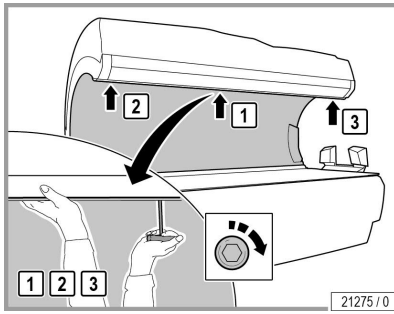


When assembling please note:

- Carefully insert the canopy panel into the guide.



- Plug in the plug.



- Support the canopy panel with one hand so that it doesn't fall down.
- Tighten the screws: the middle ones first, then the outer ones.
- Carefully remove fingerprints and other soiling.

3.6.3 5.3 Acrylic side panel

Not applicable for this device.

3.6.4 5.4 Acrylic bed: Intermediate panel

See Chapter 3.6.1_5.1_Acrylic bed panel.

3.6.5 5.5 Acrylic bed: Shoulder tanning unit

Not applicable for this device.

3.6.6 5.6 Headrest pad

Does not apply to this unit.



3.7 Electronic ballasts, ignition units

3.7.1	Conventional ballast
6.1	Does not apply to this unit.
3.7.2	Electrical ballast
6.2	
3.7.3	Ignition unit
6.3	Does not apply to this unit.

3.7.1 6.1 Conventional ballast

Does not apply to this unit.

3.7.2 6.2 EVG

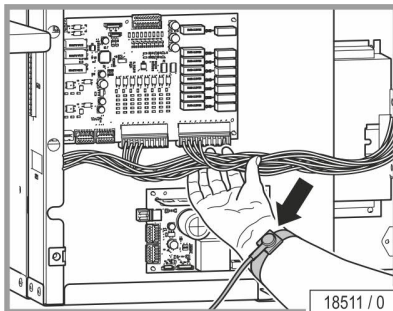
 CAUTION!



ESD-sensitive parts!

Power connection boards and electrical, electronic or optoelectronic components are sensitive to electrostatic discharge and can be terminally damaged on contact.

- Wear special ESD shoes.
- Always wear a grounding wrist strap when working in close proximity to electrical, electronic or opto-electronic components.



Before touching electrical / electronic components:

- Attach the wrist strap as per the manufacturer's instructions.
- Use the earth bonding points (EBP).

Electrical ballasts are located in the canopy and base of the unit.

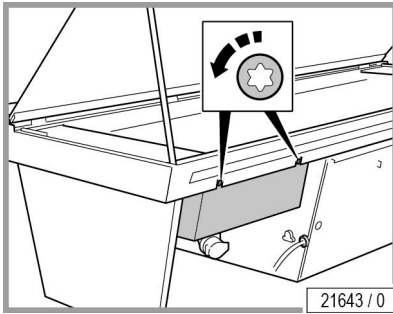
- Check or replace components in accordance with the checklist # 1018814-...

Replacing the electronic ballast in the base:

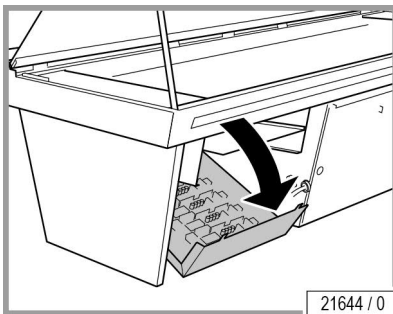


The front panel has to be dismantled to replace the electronic ballast. See assembly instructions # 1031975-..., Chapter 5.1 Removing the front panel.

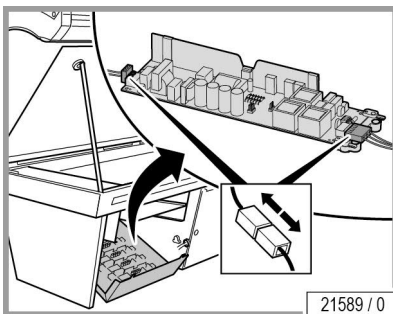
During dismantling, consult the circuit diagram to determine how many lamps are operated by an electronic ballast.



- Undo the screws.



- Fold down the carrier.

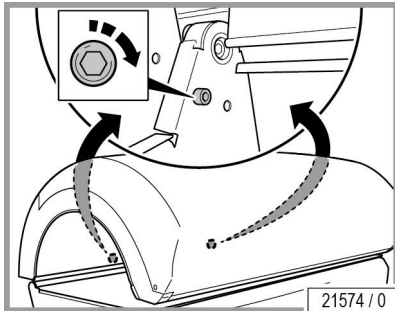


- Disconnect the connector

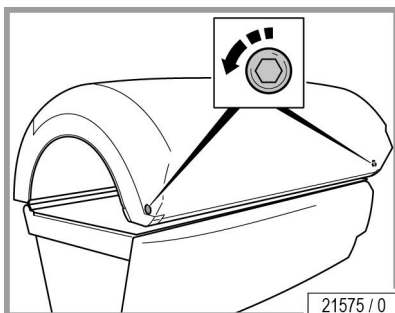
The new electronic ballast is installed in reverse order.

Replacing the electronic ballast in the canopy:

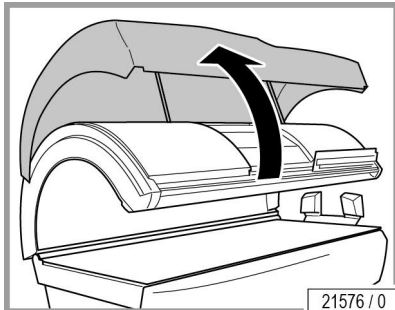
During dismantling, consult the circuit diagram to determine how many lamps are operated by an electronic ballast.



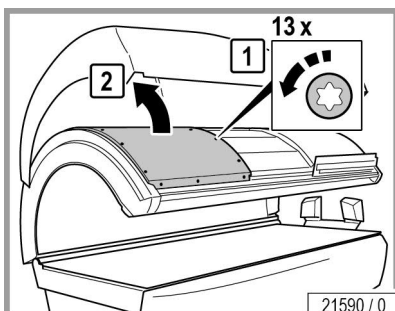
- Mount transport protection devices to fix the canopy in place.



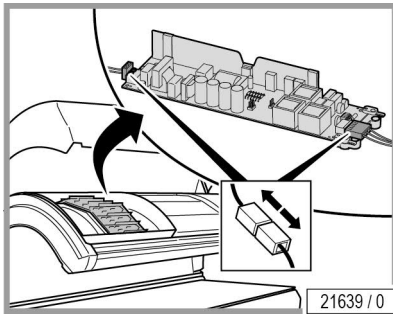
- Undo the 2 screws to open the hood.



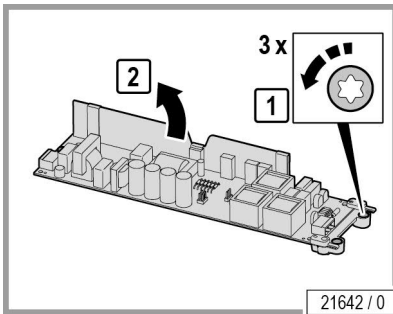
- Open the hood and support it with props.



- Undo 13 screws



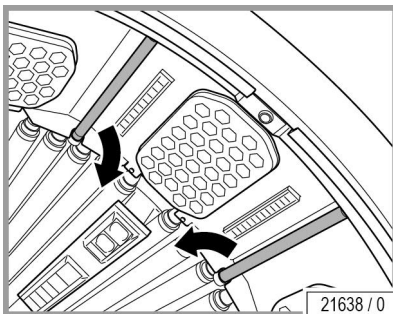
- Pull out the plug.



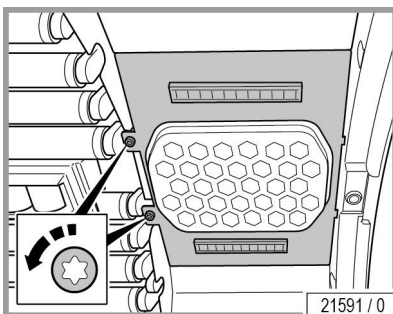
- Undo 3 screws.
 - Remove the electronic ballast
- The new electronic ballast is installed in reverse order.

Replacing the electronic ballast for the low-pressure lamps in the facial tanner:

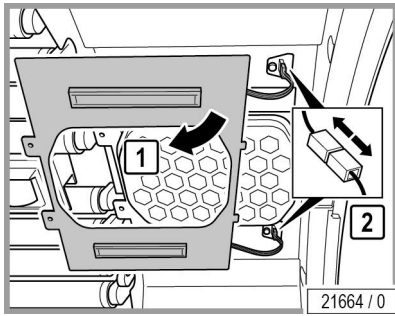
The electronic ballast for the low-pressure lamps is located behind the central LED board in the canopy.



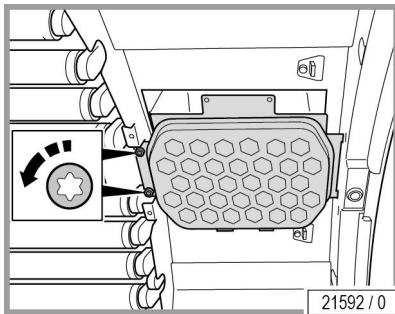
- Remove the low-pressure lamps.



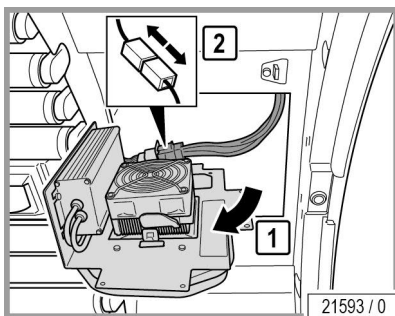
- Undo the screws on the cover.



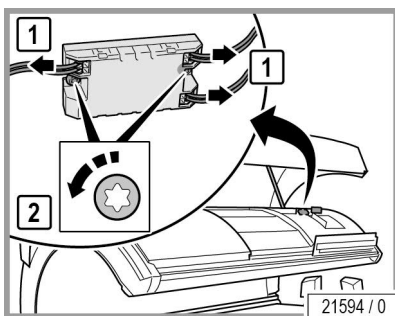
- Remove the cover and disconnect the connector.



- Undo the screws on the LED board.



- Remove the LED board.



- Disconnect the wires on the electronic ballast.
 - Undo 2 screws.
 - Remove the electronic ballast.
- The new electronic ballast is installed in reverse order.

3.7.3 6.3 Ignition unit

Does not apply to this unit.



3.8 Exhaust air/ventilation

3.8.1	Exhaust air flap spring
7.1	Does not apply to this unit.
3.8.2	Exhaust air hose
7.2	Does not apply to this unit.
3.8.3	Internal air hoses
7.3	Does not apply to this unit.
3.8.4	Bellows
7.4	
3.8.5	EPP air ducts
7.5	Does not apply to this unit.
3.8.6	EPP control boxes
7.6	
3.8.7	Fan
7.7	
3.8.8	Servo motors
7.8	Does not apply to this unit.
3.8.9	Air filter
7.9	

3.8.1 7.1 Exhaust air flap spring

Does not apply to this unit.

3.8.2 7.2 Exhaust air hose

Does not apply to this unit.

3.8.3 7.3 Internal air hoses

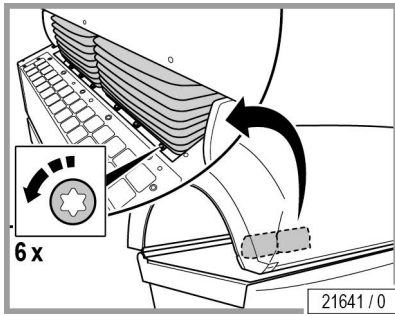
Does not apply to this unit.

3.8.4 7.4 Bellows/canopy to base

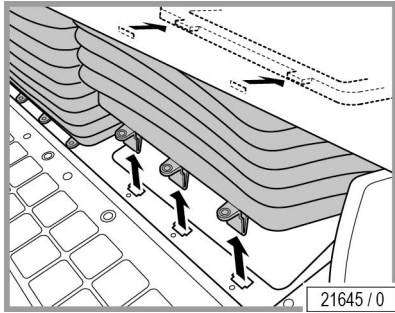
- Check the bellows for damage and correct fit.
- Check the rubber for brittleness.

Both bellows hold wires!

If the wires need to be detached, the front panel has to be dismantled and the parts carrier opened to detach the connectors. These steps are described in the assembly instructions # 1031975-...

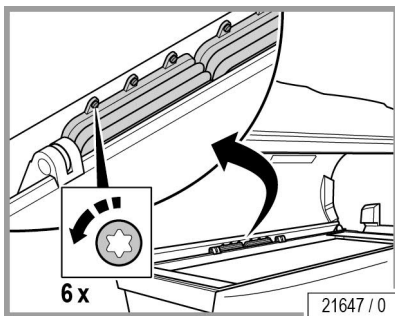


- Undo the 3 screws on each of the bellows.

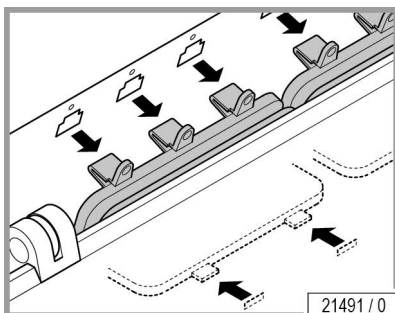


- Detach the catches from the recesses on each of the bellows.

Now remove the bed panel; see the assembly instructions # 1031975-..., Chapter 'Removing the acrylic bed panel'



- Detach the 3 catches from the recesses on each of the bellows.



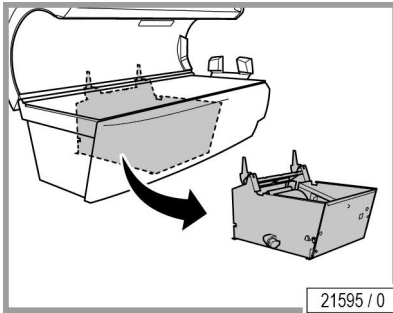
- Detach the top and bottom catches from the recesses.
The new bellows are installed in reverse order.

3.8.5 7.5 EPP air ducts

Does not apply to this unit.

3.8.6 7.6 EPP control boxes

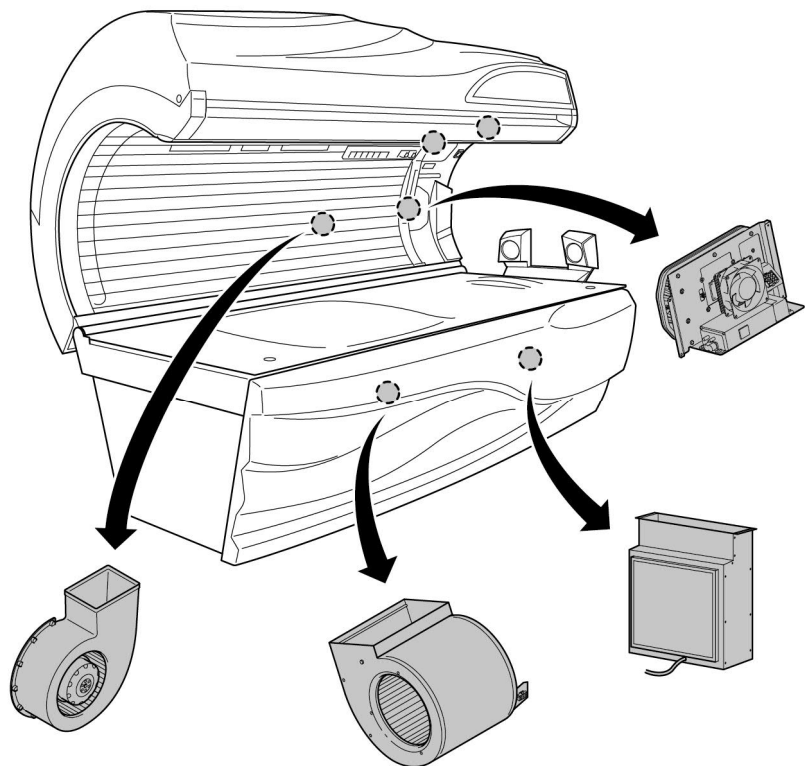
- If installed, check for wear and damage.



3.8.7 7.7 Fan

- Check or replace components in accordance with the checklist # 1018814-...

Further information is available in the assembly instructions # 1031975-..



The main fan and partition fan are installed in the base of the unit. One fan is installed in each LED module in the canopy. The face/body fan is installed in the canopy.



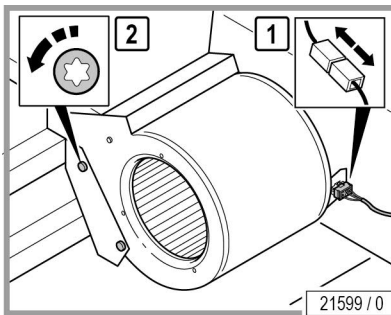
- Check all the fans for damage and correct fit.
- Check the fixings on the fans.
- Check the fan fins for damage and correct fit.
- Clean if necessary

Replacing using the main fan as an example

Before the main fan can be replaced, the front panel and base have to be dismantled, see assembly instructions # 1031975-...

- Loosen the connector.
- Undo the screws.
- Remove the main fan.

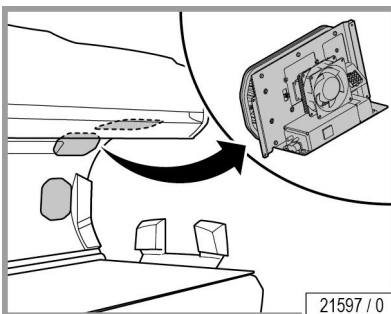
The new main fan is installed in reverse order.



Replacing the fan in the LED board

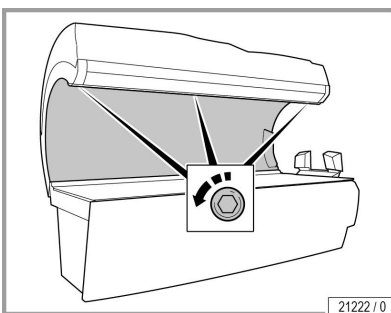
If a fan needs to be replaced, the entire LED board has to be replaced.

See Chapter 3.10 UV components – Replacing the LED boards in the canopy.

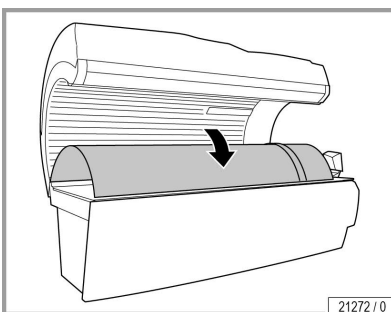


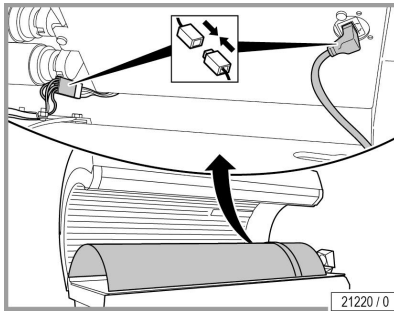
Replacing the face/body fan

- Undo the screws.
- Support the canopy panel with one hand so that it doesn't fall down.

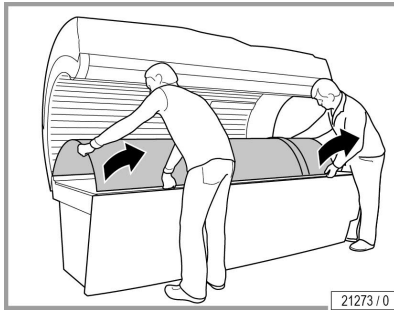


- Place the canopy panel carefully to one side.

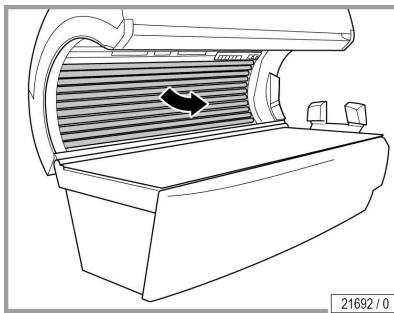




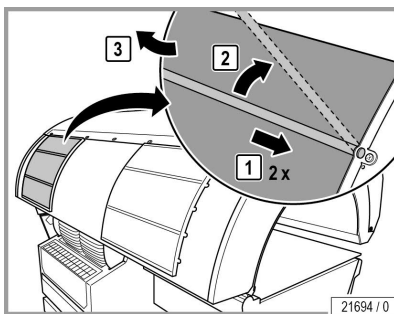
- Loosen the connector.



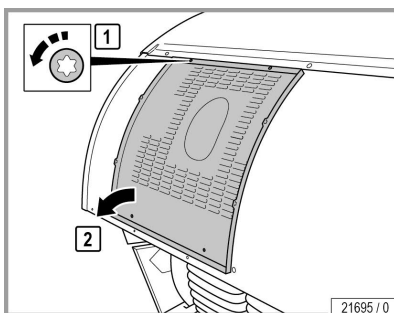
- Remove the canopy panel from the unit.



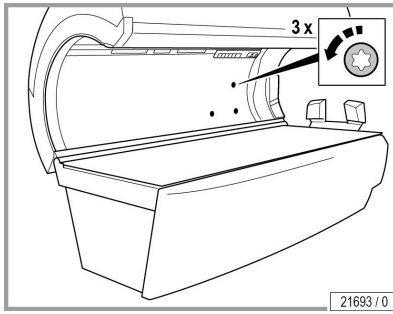
- Remove the low-pressure lamps



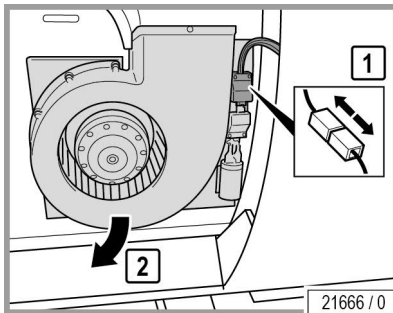
- Remove the filter mat.



- Undo the screws.



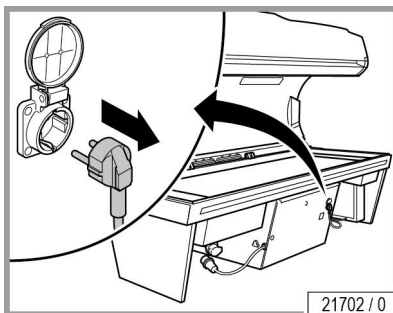
- Undo the screws.



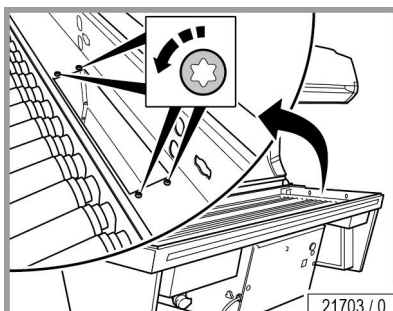
- Loosen the connector.
- Remove the fan.

Replacing the partition fan

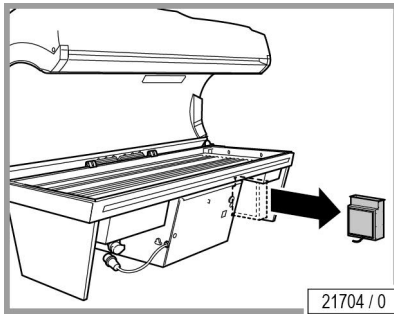
Before the partition fan can be replaced, the bed panel and lamp covers have to be dismantled, see assembly instructions # 1031975-...



- Disconnect the Schuko plug from the parts carrier.



- Undo the screws.

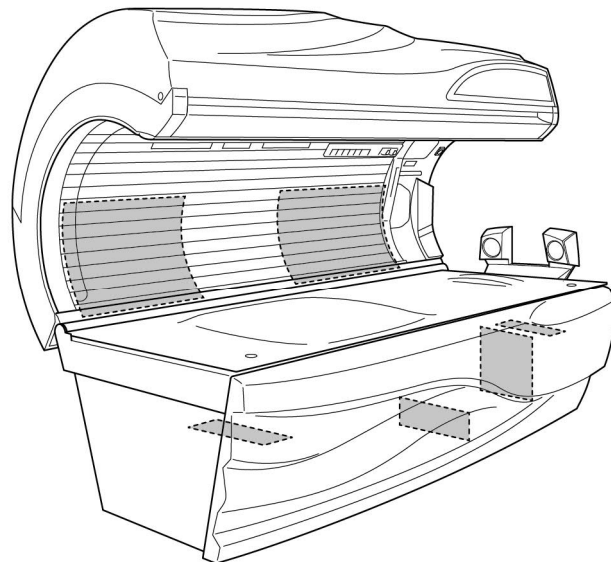


- Pull the partition fan forwards and replace it.

3.8.8 7.8 Servo motors

Does not apply to this unit.

3.8.9 7.9 Air filters

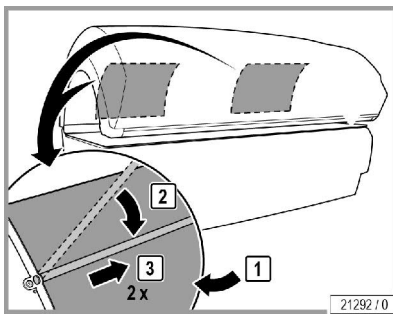
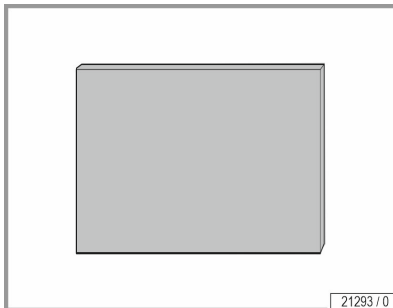
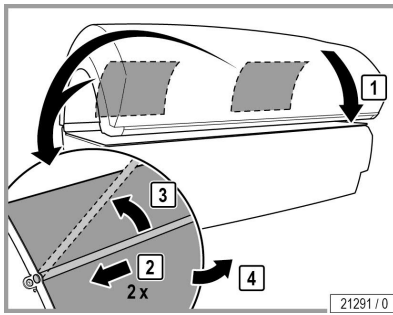


20599 / 0

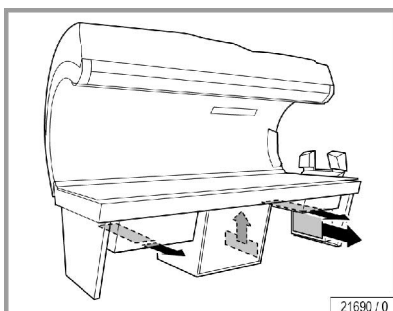
- Check or replace components in accordance with the checklist # 1018814-...

Further information is available in the operating instructions # 103267-..

Filter in the canopy



Filter in the base



Replacing the air filter

- Cover the canopy if necessary to prevent the paintwork from being scratched.
- Remove the filter mat on the back of the canopy.



- Clean the filter dry or wet. Replace the filter if necessary.

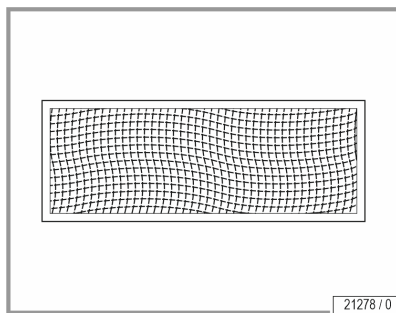


IMPORTANT NOTE FOR WET CLEANING!
Fully dry the filter before re-inserting the filter into the unit.

- Refit the cleaned and dried filter mats.

Remove the front panel: see assembly instructions # 1031975-..., Chapter 5.1.

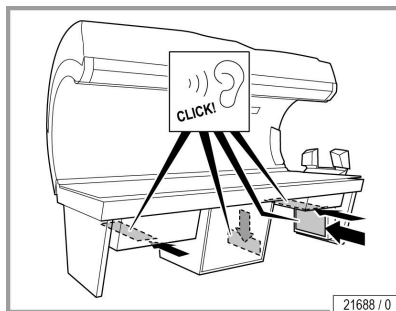
- Pull the outer filter out to the front. Pull the middle filter out to the top.



- Clean the filter dry or wet.

Dry cleaning: Vacuum cleaner (depending on the degree of soiling)

Moist cleaning: water and detergent, also a dishwasher.



- Refit the cleaned and dried filters. The two outer filter mats audibly engage.

Mount the front panel: see assembly instructions (# 1031975-..), Chapter 5.1



3.9 Bearings, springs, shock absorbers

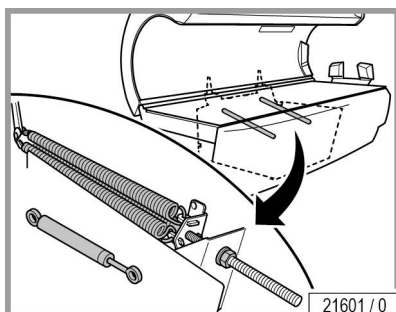
3.9.1 8.1	Springs
3.9.2 8.2	Bearings/slide bearings
3.9.3 8.3	Rubber-metal buffer (lifting mechanism and fan)
3.9.4 8.4	Cables and guide rollers Does not apply to this unit.
3.9.5 8.5	Fall protection Does not apply to this unit.
3.9.6 8.6	Lifting mechanism
3.9.7 8.7	Gas pressure absorbers/oil dampers
3.9.8 8.8	Transport rollers Does not apply to this unit.

3.9.1 8.1 Springs



NOTE:

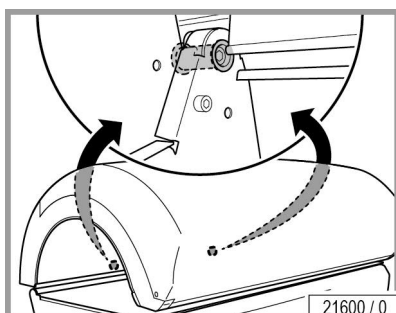
All parts, which service the lifting mechanism, need to be fully replaced and may not be replaced one component at a time.



- Check the springs for damage.
- Check that the springs are fitted correctly.
- Check the spring tension.

3.9.2 8.2 Bearings/slide bearings

- Check the slide bearing and bolts for damage.
- Check that the slide bearing, bolts and snap rings are fitted correctly



NOTE:

It is essential that the springs (on both sides) in the lifting mechanism are relaxed before replacing a slide bearing!



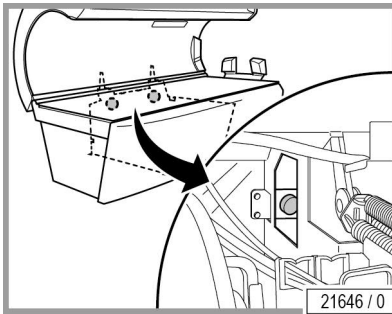
3.9.3 8.3 Rubber-metal buffer (lifting mechanism)

- If present, check for wear and damage.

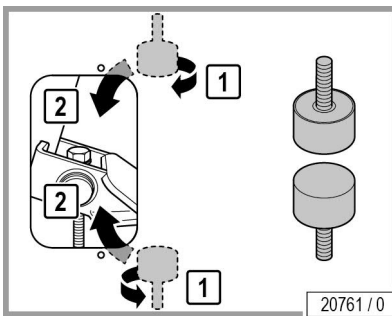
Two rubber buffers are installed.

- Check rubber buffers for damage and wear.
- Check the rubber buffers for their cushioning effect; replace if punctured!

Replacing the rubber buffer



- Remove the 2 screws on the plate
- Detach the rubber buffer



- Unscrew the rubber buffer by hand and replace with a new one. Installation is carried out in reverse order.

3.9.4 8.4 Cables and guide rollers

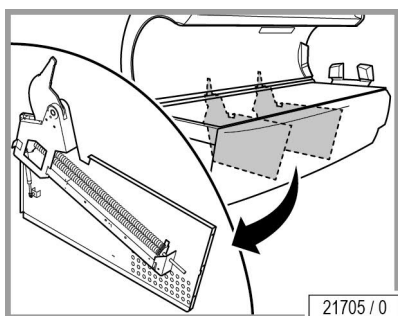
Does not apply to this unit.

3.9.5 8.5 Fall protection

Check the fall protection for damage and correct fit.

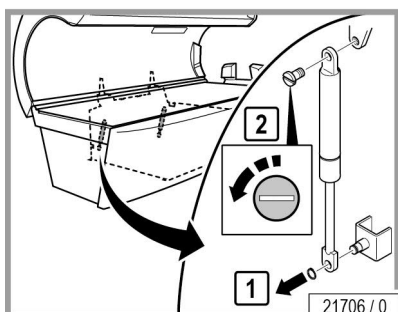
3.9.6 8.6 Lifting mechanism

- Check the lifting mechanism for damage and correct fit.



3.9.7 8.7 Gas pressure absorbers/ oil dampers

Replacing the gas pressure absorber



There is one safety splint located on the top of each gas pressure absorber.

- Fold up the safety splint (1).
- Remove the pin (2).
- Remove the gas pressure absorber.

Store the safety splint carefully.

The new gas pressure absorber is installed in reverse order.



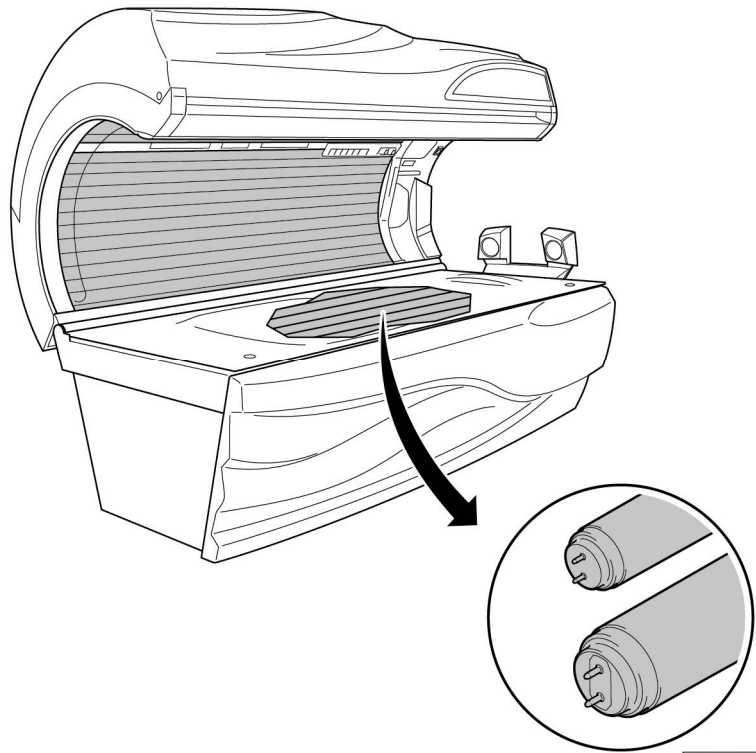
NOTE:

The oil tank of the gas pressure absorber must always point upwards

3.9.8 8.8 Transport rollers

Does not apply to this unit.

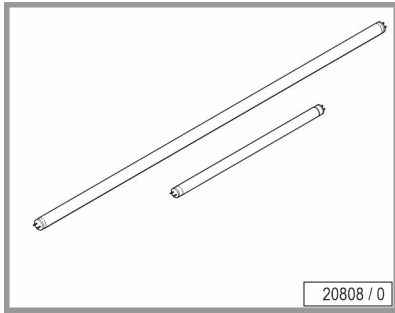
3.10 UV components



21603 / 0

- 3.10.1 Lamps / LP / HP
9.1
- 3.10.2 Filter panels
9.2 Does not apply to this unit.
- 3.10.3 Reflectors
9.3 Does not apply to this unit.
- 3.10.4 Starter
9.4 Does not apply to this unit.
- 3.10.5 Chip cards (NFC card)
9.5 Does not apply to this unit.
- 3.10.6 Lamp sockets/tube sockets
9.6

3.10.1 9.1 Lamps / LP / HP



The long (UV) low-pressure lamps are installed in the canopy and base.

The type and number of lamps vary depending on the type of unit. The operating instructions in the 'Lamp set' section provide more detailed information on the lamps.

The short 8-watt low-pressure lamps are installed in the face tanner.

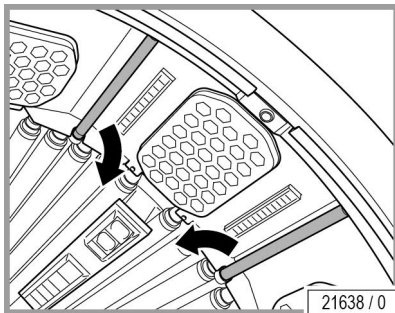


Replacing the LED boards in the canopy

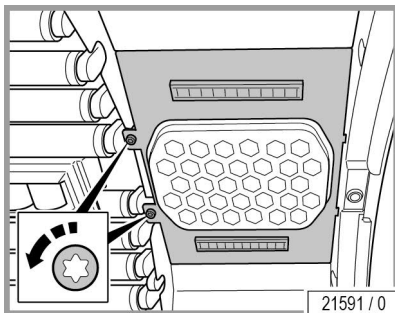


Note:

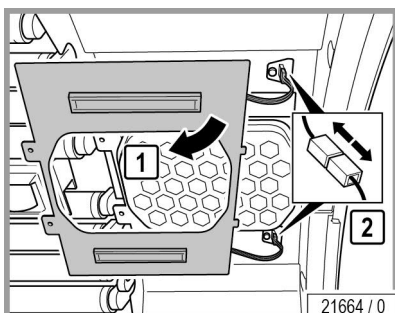
Do not mix up the LED boards due to their installation location!



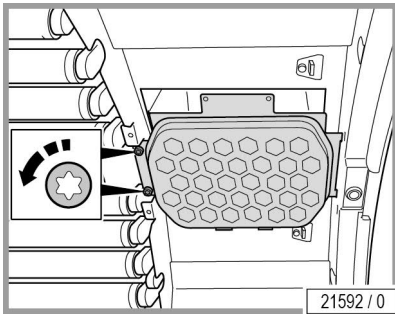
- Remove the low-pressure lamps.



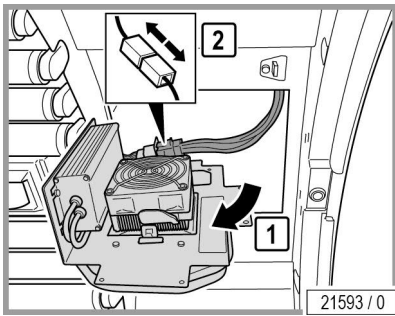
- Undo the screws on the cover.



- Remove the cover and disconnect the connector.

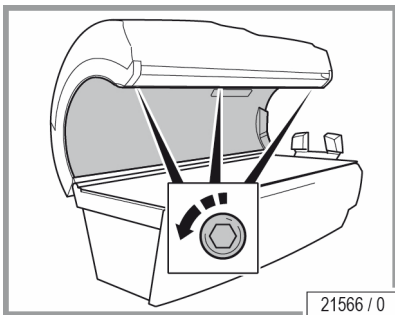


- Undo the screws on the LED board.

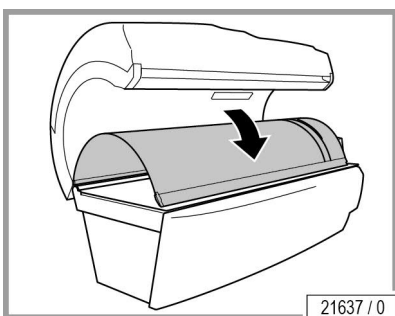


- Remove the LED board.
The new LED board is installed in reverse order.

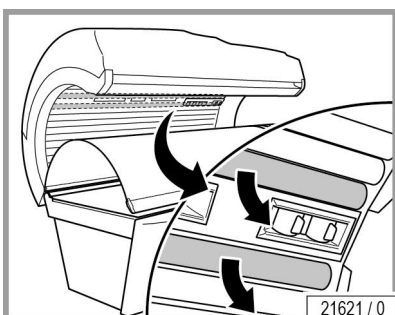
Replacing the Beauty Light LED in the canopy



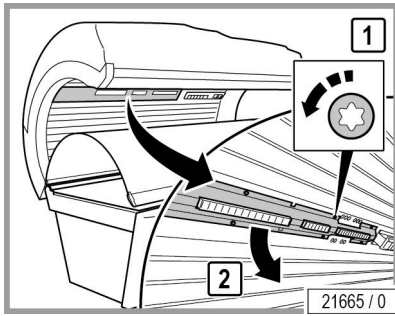
- Undo 3 screws.



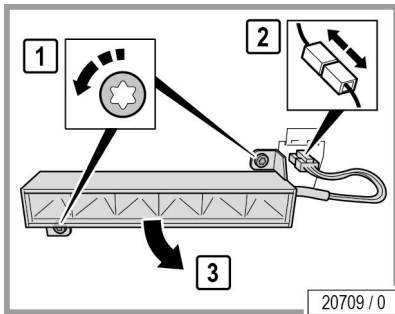
- Fold down the acrylic panel.



- Remove the low-pressure lamps.



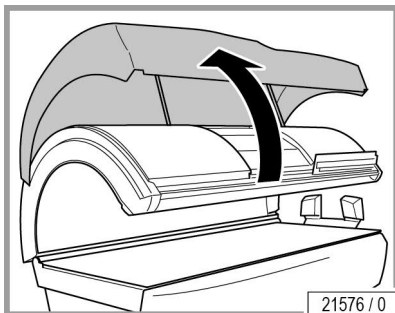
- Unscrew and remove the plates.



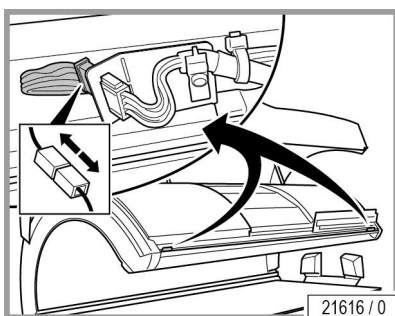
- Undo the screws.
- Loosen the connector.
- Remove the LED.

The new LED is installed in reverse order.

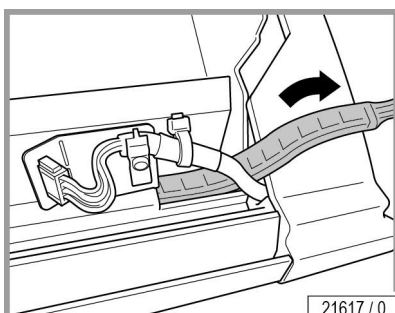
Replacing the decorative lighting



- Open the hood

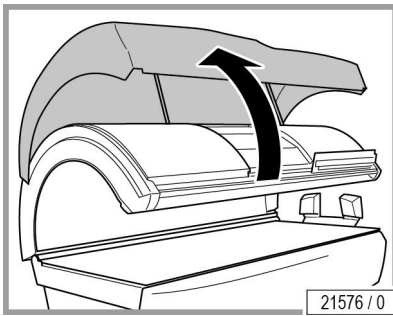


- Loosen the connector for the LED strip in the head and foot area.

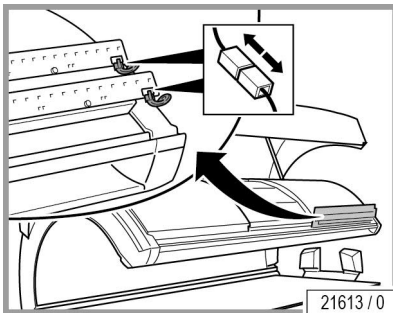


- Remove the LED strip.

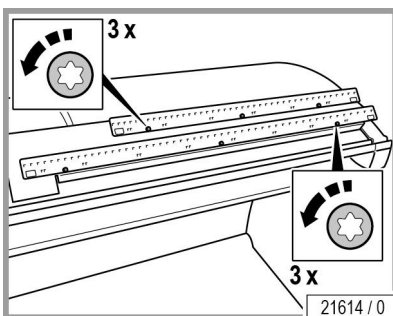
Replacing the effect lighting on the decorative plate



- Open the hood



- Loosen the connector.



- Undo the screws.

The new LED panel is installed in reverse order.

3.10.2 9.2 Filter panels

Does not apply to this unit.

3.10.3 Reflectors

Does not apply to this unit.

3.10.4 9.4 Starter

Does not apply to this unit.

3.10.5 9.5 Chip cards (NFC lamp card)

Does not apply to this unit.



3.10.6 9.6 Lamp sockets

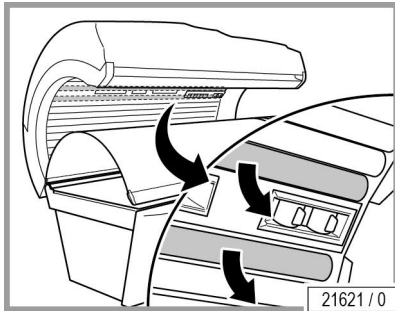
- Check lamp sockets for damage and discolouration.
- Check the connections of the sockets for discolouration, damage and correct fit.
- Use a service PC for a test run when fitted

Replacing lamp sockets, shown on the canopy



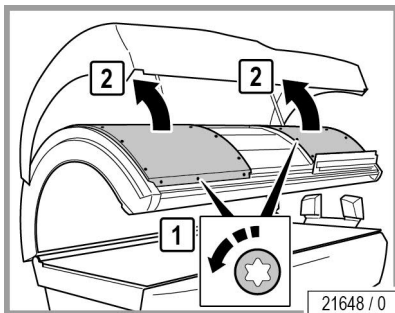
Note:

Only replace the lamp sockets for each lamp in pairs.

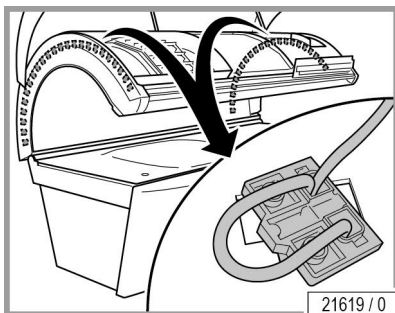


The acrylic glass panel must be removed from the canopy to enable you to remove the lamps. See operating instructions, Chapter 4.7.3 "Removing the canopy panel".

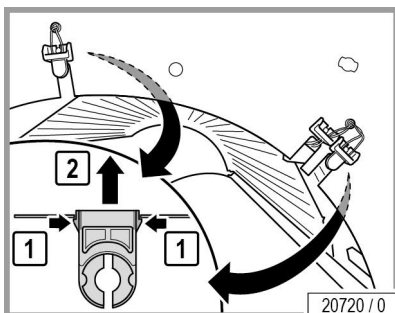
- Remove the lamps.



- Unscrew the plates at the head and foot end.



- Loosen the cable from the socket.



- Loosen the socket and remove
- The new lamp socket is installed in reverse order.



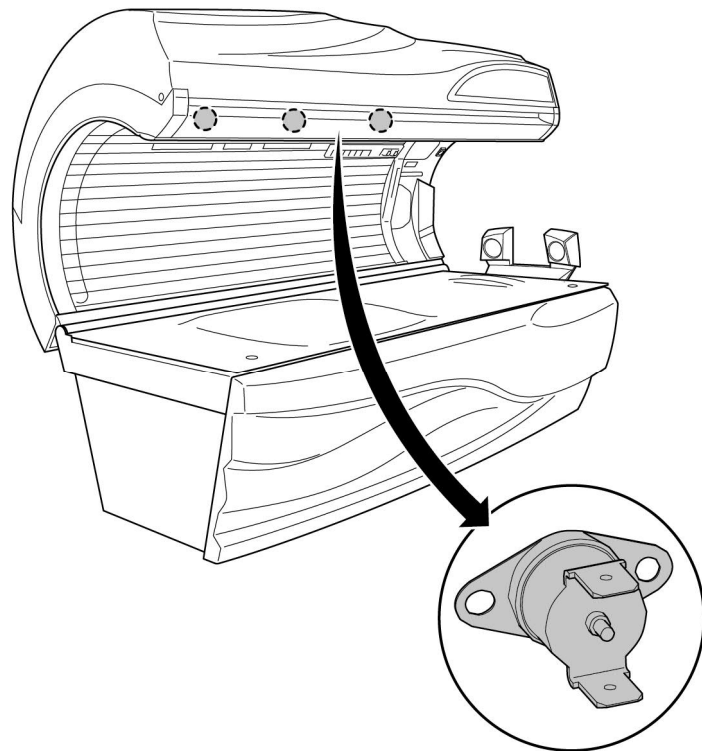
3.11 Safety switch/locks

- 3.11.1 10.1 Sensors (temperature, pressure, UV, etc.)
Does not apply to this unit.
- 3.11.2 10.2 Temperature limiter
- 3.11.3 10.3 Switches/panel switches/safety switches
- 3.11.4 10.4 Opening/closing mechanism
Does not apply to this unit.

3.11.1 10.1. Sensors (temperature, pressure, UV, etc.)

Does not apply to this unit.

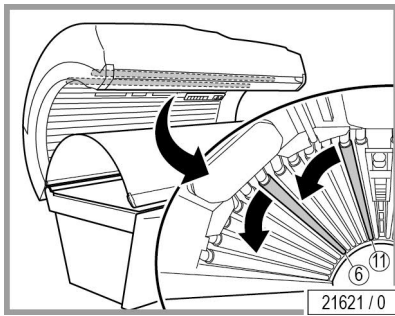
3.11.2 10.2 Temperature limiter



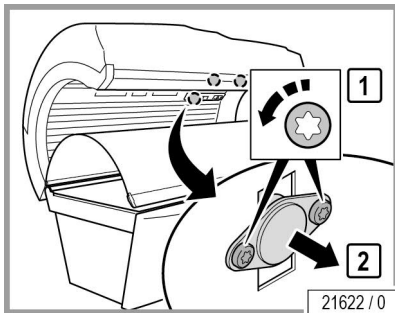
21620 / 0

- If present, check for wear and damage.

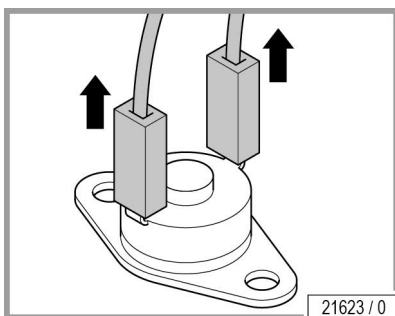
The thermal cut-offs are located in the canopy.



- Remove the lamps.



- Undo the screws and pull the thermal cut-off down and out.

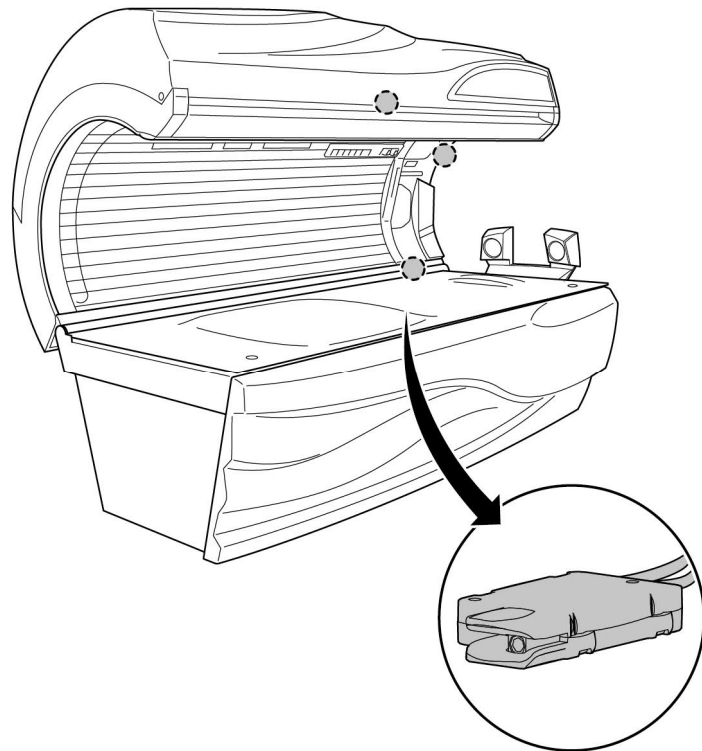


- Remove the cable lugs.
- Attach the new thermal cut-off to the two cable lugs.

The new thermal fuse is installed in reverse order.



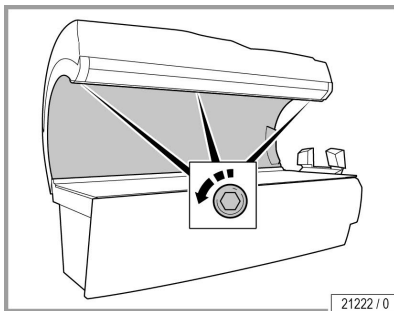
3.11.3 10.3 Switches/sliding switches/ safety switches



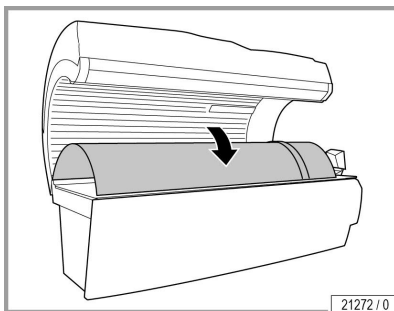
21624 / 0

- Check the safety switches for damage and correct fit.
- Check the switch flag/sickle for deformation and correct fit.
- Check the electrical connections for damage.

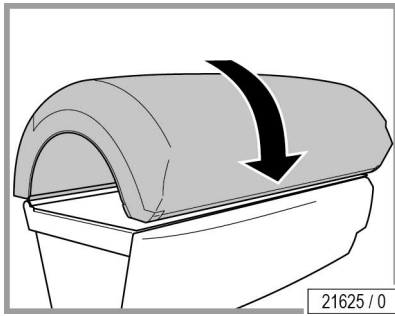
Replacing the panel switch, shown on the canopy



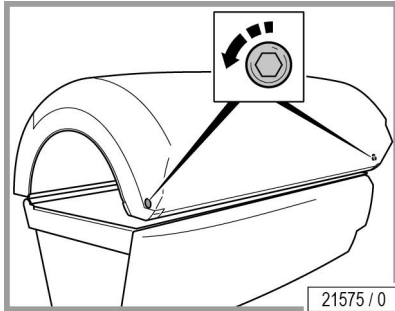
- Undo the screws



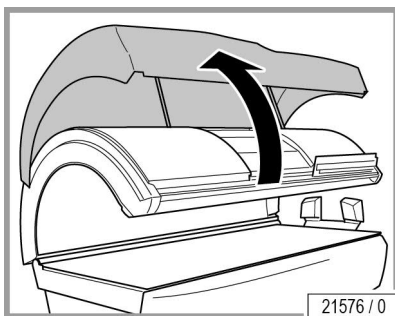
- Place the acrylic glass panel carefully to one side.



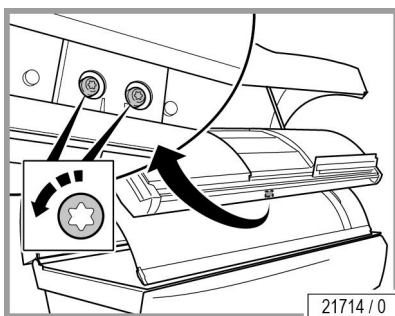
- Close the canopy.



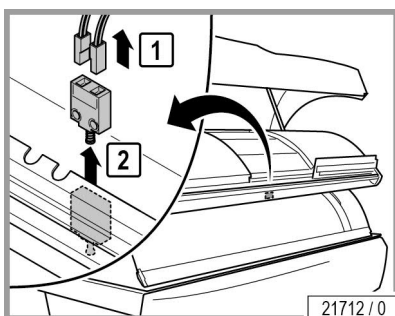
- Undo the 2 screws to open the hood.



- Open the hood and support it with props.



- Undo the 2 screws on the panel switch.



- Loosen the cable
- Remove the safety switch (emergency off switch) downwards and out.

The new safety switch (emergency off switch) is installed in reverse order.



3.11.4 10.4 Opening/closing mechanism

Does not apply to this unit.

3.12 Option: Vibra Shape

Does not apply to this unit.

3.13 Control



3.13.1 Handles/retaining cables
11.1 Does not apply to this unit.

3.13.2 Control films/switching mat
11.2 Does not apply to this unit.

3.13.1 11.1 Handles/retaining cables

Does not apply to this unit.

3.13.2 11.2 Control films/switching mats

Does not apply to this unit.



3.14 Mechanical components

- 3.14.1 Seats
12.1 Does not apply to this unit.
- 3.14.2 Plastic panels
12.2 Does not apply to this unit.
- 3.14.3 Contact guard
12.3
- 3.14.4 Nozzle trolley
12.4 Does not apply to this unit.
- 3.14.5 Warning sticker
12.5

3.14.1 12.1 Seats

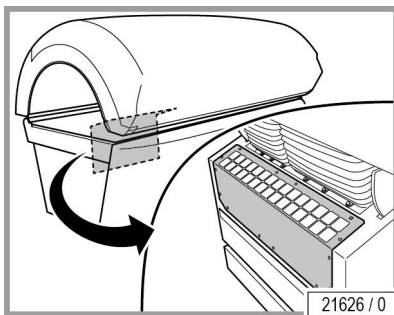
Does not apply to this unit.

3.14.2 Plastic panels

Does not apply to this unit.

3.14.3 12.3 Contact guard

- If installed, check for wear and damage.



3.14.4 12.4 Nozzle carriage

Does not apply to this unit.

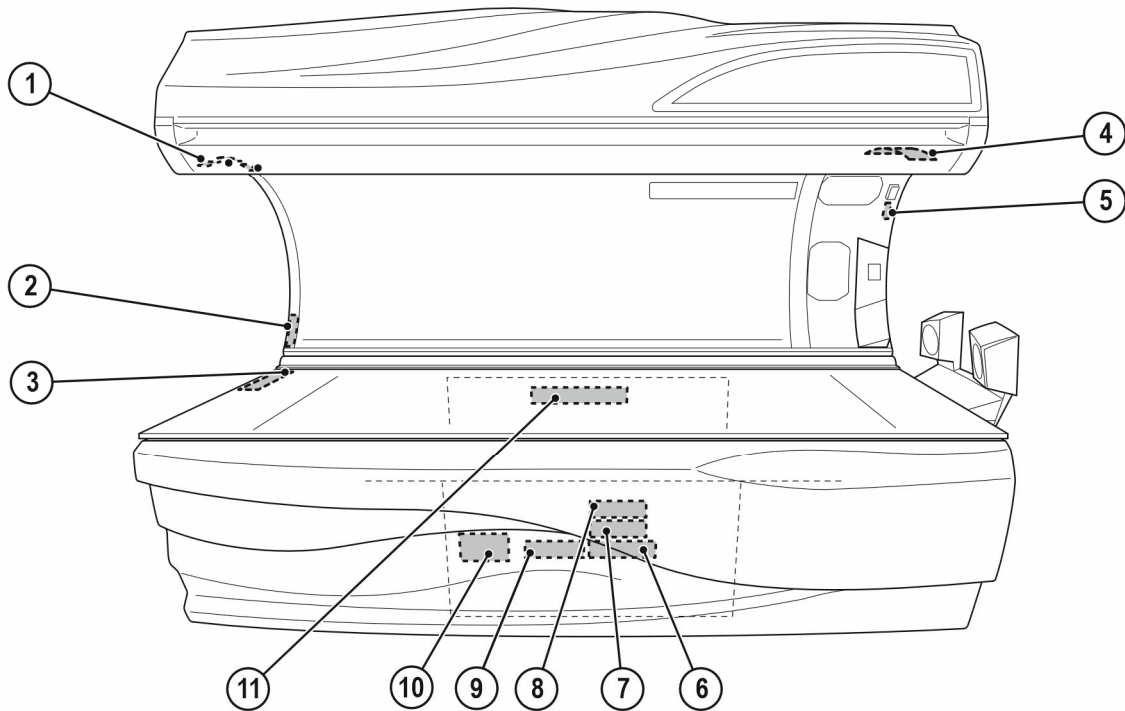
3.14.5 12.5 Warning stickers

The warning stickers can vary from unit to unit or equipment to equipment.



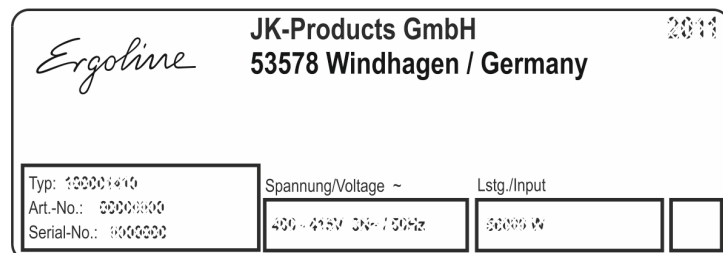
- Check that the warning stickers are fitted as per the operating instructions.
- Check the warning stickers for damage.
- Damaged or missing warning or instruction signs must be replaced!

Example based on Ergoline Spirit Pure Light:



21314 / 0

1: Type plate

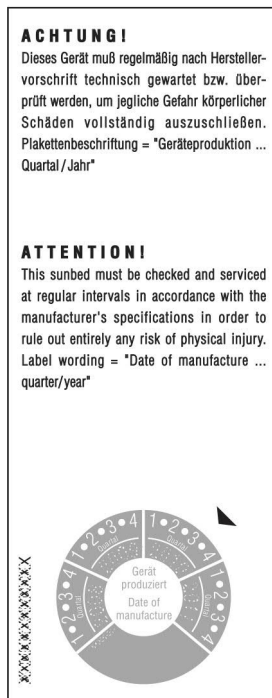


11991 / 2

The name plate is attached to the interior side of the canopy. It contains important information for identifying the device (e. g. the serial number = Serial-No.).



2: Maintenance instruction sticker (800701-..)



12225 / 1

The sticker is mounted at the foot end on the inside of the canopy.

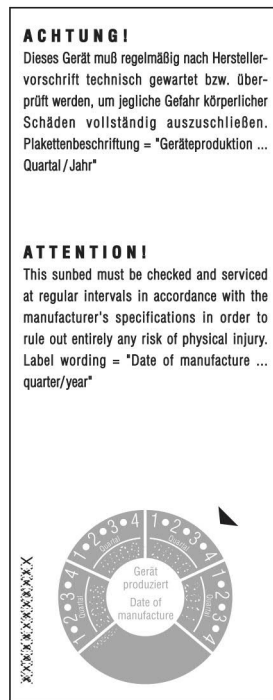
3: Lamp set sticker

				Ergoline ESPRIT 770-S DYNAMIC POWER	
	①	15x		Ergoline THERO 80-200 W ES	1304280-
	②	8x		Ergoline THERO 80-200 W ES	1304280-
	③	22x		Ergoline THERO 80-200 W ES	1304280-
	④		8x	Ergoline ULTRA 320W ULTRA PERFORMANCE 802	130545- 1307440-
		3x	2x	ULTRA PERFORMANCE 802 Ergoline THERO 8 W ES	1304204- 1303569-
⑤	-	-	-	Ergoline THERO 80-200 W ES	-
⑥		2x	Ergoline ULTRA 100 W ULTRA PERFORMANCE 802	1300384- 1300659-	
JK-Products GmbH / GERMANY				GLAS/PLASS/VERSPEL...	1300160-

12846 / 0

The precise details of the required lamps are available in the separate appendix.

4: EU warning sticker (1012638-..)



12225 / 1

This sticker also includes the language form (see accessories Technical Documentation).

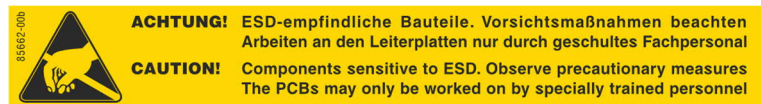
5: Emergency off sticker (1512131-..)



19329 / 0

The sticker is mounted at the head end on the inside of the canopy. This sticker also includes the language form 1018688-.. (see Technical Documentation folder).

6: ESD (Electrostatic discharge) - sensitive components sticker (85662-..)



14060 / 0

This sticker is mounted in several places in the device.



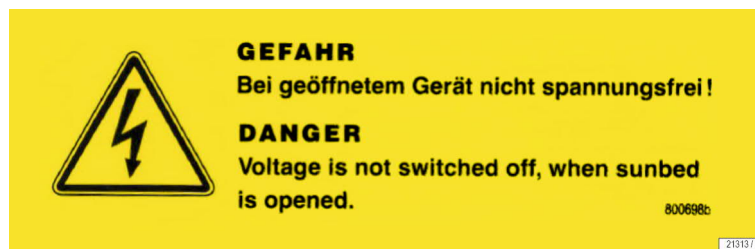
7: 'No export USA/Canada' sticker (84829-..)

HINWEIS	NOTE	REMARQUE
Wir weisen darauf hin, daß die Geräte nicht in die USA oder nach Kanada exportiert und dort betrieben werden dürfen. Bei Nichtbeachtung dieses Hinweises wird keine Haftung übernommen.	We emphasize that these devices must not be exported to or operated in the USA or Canada! The manufacturer does not accept any liability in case of non-observance of this notice!	Nous attirons votre attention sur le fait que les appareils ne doivent pas être exportés ni utilisés aux Etats-Unis ou au Canada! Nous ne pourrions nullement être tenus responsables de dommages si cette remarque n'est pas respectée!

11977 / 2

The sticker is mounted on the controller support.

8: 'Not disconnected from power supply' warning sticker (800698-..)



9: 'Lock control box' sticker 1032324-..

Sicherheitshinweis:
Zum störungsfreien Gerätebetrieb muß der Steuerboxdeckel immer ordnungsgemäß verschlossen sein!

Note on safety:
The control box cover must always be properly closed on for fault-free device operation!

21312 / 0

1: Note! Only genuine parts (800702-..)!

Hinweis !

Verwenden Sie in diesem Gerät ausschließlich Original-JK-Ersatzteile. Bei Schäden, die nachweislich durch die Verwendung von nicht Original-Ersatzteilen entstanden sind, wird jegliche Haftung ausgeschlossen. Eigenmächtige Umbauten und Veränderungen am Gerät oder an der Steuerung sind nicht gestattet. Bei Missachtung erlischt die Betriebserlaubnis! Des Weiteren erlischt unsere EU-Konformitätserklärung (CE-Kennzeichen).

Note !

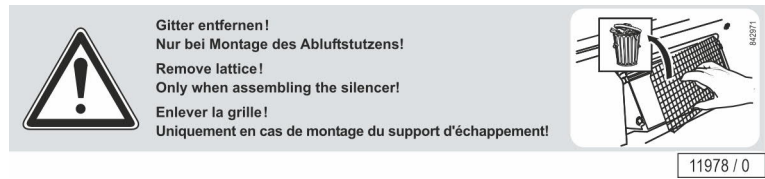
Please use only original JK spare parts in this device. Any liability for damage or injury proven to be the result of the use of non-genuine spare parts is excluded. Unauthorized modifications and changes to the device and its control unit are prohibited. Failure to comply with this voids the operating licence! In addition, our EU Declaration of Conformity (CE certification) shall also be voided.

JK Teile Nr.: 800702-01

21311 / 0

The sticker is mounted on the controller support.

10: 'Remove lattice' sticker (842971-..)



The sticker is mounted at the top of the rear panel.

4 Acceptance test



After installation and before handover and commissioning, the unit must be checked in accordance with VDE 0701-0702. The results of the individual checks must be recorded in the handover report. The signed handover report must be sent to Technical Service:

JK-International GmbH,
Division JK-Global Service
Köhlershohner Straße
53578 Windhagen
GERMANY
Tel.: +49 (0) 22 24 / 818-861
Fax: +49 (0) 22 24 / 818-205
Email: service@jk-globalservice.de

CAUTION!



The unit may only be handed over and used once all stages of the acceptance test have been successfully completed. The tester must possess the technical knowledge required to conduct the acceptance test. Testing and measurement equipment must be in perfect working order.

4.1 Storing the device

4.1.1 Decommissioning

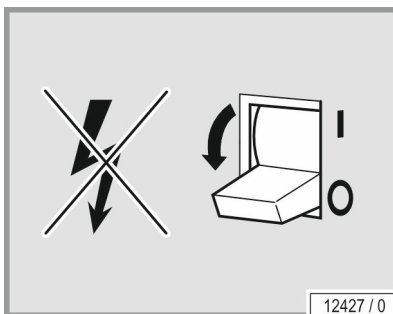
The device must be disconnected from the power supply in order to temporarily or permanently decommission it.

You must abide by the legal disposal requirements when permanently decommissioning the device.

4.1.2 Storage

Store the devices in a dry location with a stable temperature. Once the device has cooled off, pack it in plastic wrapping to protect it against scratches.

- Storage temperature: Between -15 °C and +60 °C



4.1.3 Disposal

Environmental regulations – disposal of lamps and batteries



Lamps contain fluorescent materials and other waste containing mercury. Batteries contain heavy metal compounds.

Within the European Union the national implementation of the Waste Framework Directive 2018/851/EG applies. According to the national waste disposal laws and in accordance with the municipal waste regulations, proof must be provided of the proper disposal of lamps and batteries.

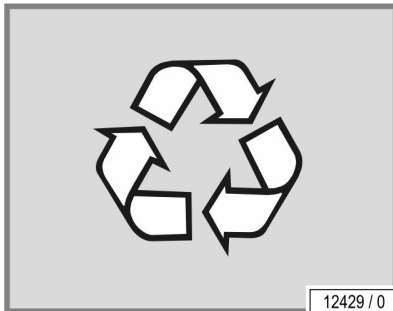
Your local sales agency will be happy to assist you with the disposal of lamps and batteries:

- Inform your local agency of the number of lamps and batteries by telephone or in writing.

The agency will then provide you with the name of a free delivery point for your lamps or will take care, in conjunction with a disposal company, of the collection and proper disposal of the lamps. This service is available for a fee. Outside Germany, the respective national legislation applies. Please contact your local sales agency.

Packaging

All packaging consists of 100 % recyclable materials. Packaging brought into circulation by the JK Corporate Group that is no longer required can be returned to the JK Corporate Group. Your partner agency or dealer will be happy to advise.



Disposal of old units

The unit has been manufactured using recyclable materials. The JK Corporate Group will provide you with information on the content or potential hazards of the materials used.

The manufacturer is obliged to take back and dispose of certain electrical and electronic components in accordance with the 2012/19/EC Directive.

Disposing of consumables

Dispose of any consumables in accordance with national waste disposal legislation and in accordance with municipal waste regulations.

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