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SGV 6/5

SGV 8/5

Service Manual



Preface	5
Safety instructions	5
Hazard levels	5
Description in this service manual	6
Service groups	6
Functional group structure	6
Textual description	6
Technical Features	7
Proper use	7
Cleaning of various materials	7
Refreshing textiles	7
Cleaning of Coated or Lacquered Surfaces	7
Detergent	7
Field of application	7
Safety installations	8
Safety catch	8
Type plate	8
Overview of the appliance	9
Device elements	9
Operating field	10
AB Service group setup	11
010 Safety information	11
020 Overview	11
030 Function	13
040 Service activities	13
ABAF Uninstall/install cover fresh water tank	13
ABBF Uninstall/install faceplate fresh water tank	15
ABAM Uninstall / install cover of the detergent tank	15
ABBM Uninstall/install faceplate detergent tank	15
ABSL Uninstall / install hinge band door waste water tank	16
ABRT Uninstall / install frame door waste water tank	16
ABBT Uninstall / install metal sheet door waste water tank	17
ABZH Uninstall / install accessory hook	17
ABZS Uninstall / install the accessory support	18
ABKH Uninstall / install cable hook	19
ABSB Uninstall / install push handle	20
ABLV Uninstall / install front steering rollers	20
ABRH Uninstall / install wheels in the back	21
ABGH Uninstall / install appliance cover in the back	21
ABDG Uninstall / install seal of the rear appliance cover	22
ABGL Uninstall / install appliance cover on the left side	23
ABSD Uninstall / install socket	24
ABDA Uninstall / install seal of the power electronics cover	24
ABTF Uninstall / install tank connection fresh water	26
ABTR Uninstall / install tank connection detergent tank	26
050 Maintenance and inspection	27
060 Error diagnosis	27
070 Peculiarities/ others	27
AC Service group suction system	28
010 Safety information	28
020 Overview	28
030 Function	30
040 Service activities	31

ACAF Uninstall / install exhaust filter	31
ACST Uninstall/ install suction turbine	31
050 Maintenance and inspection	33
060 Error diagnosis	33
070 Peculiarities/ others	33
AD Service group steam system	34
010 Safety information	34
020 Overview	34
030 Function	36
040 Service activities	37
ADSO Uninstall / install probe water level	37
ADDD Uninstall / install pressure valves steam boiler	37
ADAT Open / close carrier	38
ADWP Uninstall / install water pump	39
ADKP Uninstall / install boiler pump	39
ADMA Uninstall / install solenoid valve	39
ADTW Uninstall / install water shortage thermostat	40
ADTX Activating the reset button thermostat water shortage	41
ADTX Activating the reset button thermostat water shortage	43
ADDK Uninstall / install steam boiler	44
050 Maintenance and inspection	46
Descaling steam boiler	46
060 Error diagnosis	48
070 Peculiarities/ others	48
AF Service group control unit	49
010 Safety information	49
020 Overview	49
030 Function	50
040 Service activities	50
AFDH Uninstall / install steam nozzle in the back	50
AFDG Uninstall / install steam nozzle in the front	51
AFMS Uninstall /install microswitch	54
050 Maintenance and inspection	55
060 Error diagnosis	55
070 Peculiarities/ others	55
AH Service group electrics	56
010 Safety information	56
020 Overview	56
030 Function	58
040 Service activities	58
AHAD Uninstall / install connection control electronics manual nozzle	58
AHDP Uninstall / install display	58
AHKD Uninstall / install control electronics (μ C-card)	59
AHMV Uninstall / install power electronics (power card)	59
AHLU Uninstall / install fan	60
AHNK Uninstall / install power cable	60
AHPW Uninstall / install programme selector switch	61
AHDS Uninstall / install pressure switch	61
AHRF Uninstall/install reed contact fresh water tank	61
AHRR Uninstall / install reed contact detergent tank	62
AHRU Uninstall / install reed contact waste water tank	63
AHSS Uninstall / install switch for rinsing system	65
050 Maintenance and inspection	65
060 Error diagnosis	65
070 Peculiarities/ others	65
Troubleshooting	66
Fault codes	66

Table of measurement values	68
General troubleshooting for steam vacuum cleaners and steamers	68
Overview circuit boards	69
μC-Card	69
Power Card	70
Technical Documentation	71
Technical specifications	71
Circuit diagram	72
Performance electronics	72
Control electronics	73

Preface

Good service work requires extensive and practice-oriented training as well as well-structured training materials. Hence we offer regular basic and advanced training programmes covering the entire product range for all service engineers.

In addition to this, we also prepare service manuals for important appliances - these can be initially used as instruction guides and later on as reference guides.

Apart from this, we also regular information about product enhancements and their servicing.

If you should require supplements, have corrections or questions regarding this document, please address these citing the following subject to:

international-service@de.kaercher.com

Subject:	Fall 117490
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The responsible product specialist will take care of your issue.

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Safety instructions

Service and maintenance tasks may only be performed by qualified and specially trained specialists.

Observe safety information in the chapters!

⚠ DANGER

First pull out the plug from the mains before carrying out any tasks on the machine.

⚠ CAUTION

Risk of damage by electrostatic discharge (ESD)! Take suitable measures for discharging electrostatic charge prior to performing work on the appliance electronics.

Hazard levels

⚠ DANGER

For an immediate danger which can lead to severe injuries or death.

⚠ WARNING

For a possibly dangerous situation which could lead to severe injuries or death.

⚠ CAUTION

For a possibly dangerous situation which can lead to minor injuries or property damage.

ATTENTION

Pointer to a possibly dangerous situation, which can lead to property damage.

Note

Indicates useful tips and important information.

Description in this service manual

Service groups

Example:

Install/uninstall ANRA wheel axle

AN	RA	Install/uninstall wheel axle
Service group	Component	Activity

Observe the allocation of service groups to the appliance components in the overview diagram in Chapter "Overview over the service and functional groups".

Functional group structure

010	Safety instructions
020	Overview
030	Function
040	Service activities
050	Maintenance and inspection
060	Error diagnosis
070	Peculiarities/ others
080 - 100	Not assigned

Textual description

→ Instruction

■ *Preparatory operations*

1

2 Key numerical

A

B Key alphanumerical

– Enumeration / General list

⚠ **Safety note**

Pointer to hazards, sources of errors.

Technical Features

Proper use

- The appliance is intended for the generation of steam and for vacuuming up spilled fluids and solid particles.
- This appliance is suited for the commercial use, e.g. in hotels, schools, hospitals, factories, shops, offices, and rental companies.

Cleaning of various materials

- Please read the cleaning instructions of the manufacturer before treating leather, special fabrics and wooden surfaces and always do a trial on a sample or some hidden part. Let the steam-treated surface dry and then check whether there are any changes to the colour or form on account as reaction to the steam.
- We recommend that you be very careful while cleaning wooden surfaces (furniture, doors, etc.) because long exposure to steam can damage the wax coating, the finish or the surface colours. Hence we recommend that you use steam only for short intervals or first clean the surface with a cloth that has been steam-moistened.
- For highly sensitive surfaces (for e.g. synthetic materials, painted surfaces, etc.) we recommend that you use the steam function at the minimum performance level.
- Cleaning of stainless steel: Avoid the use of abrasive brushes. Use hand nozzle with rubber lip or detail nozzle without a round brush.

Refreshing textiles

Always test the compatibility of the fabrics on a hidden spot prior to treating them with the appliance: Steam first, then allow to dry before checking for colour changes or deformation.

Cleaning of Coated or Lacquered Surfaces

When cleaning painted or plastic-coated surfaces, as found on kitchen and living room furniture, doors, parquet; wax, furniture polish, plastic surfaces or paint can come loose or stains can be created. When cleaning these surfaces, briefly steam a cloth and wipe the surfaces with it.

Detergent

⚠ **WARNING**

Health risk, risk of damage. Observe all indications on the detergent used.

Note

For considerate treatment of the environment use detergent economically.

Kitchen area	Grease and protein remover RM 731 (alkaline)
Floorings, e.g. safety tiles	Universal floor cleaner RM 743 (alkaline)
	Porcelain stoneware RM 753 (alkaline)
Sanitary area, e.g. shower, floorings with limescale deposits	Basic floor cleaner RM 751 (acidic)

If you require further information please request the product information sheet and the DIN safety data sheet for the respective cleaning agent.

Field of application

This service manual applies to the following appliances:

SGV 6/5 *EU *CH *GB *JP	SGV 8/5 *EU *CH *GB *JP *AUS
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Safety installations

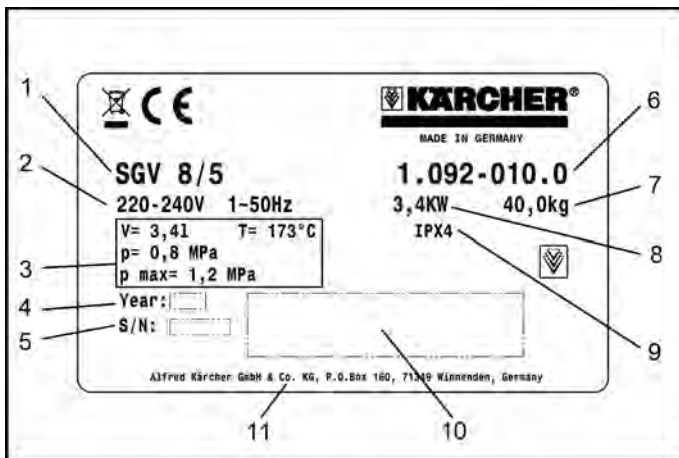
Safety devices serve to protect the user and must not be rendered in operational or their functions bypassed.

Observe safety information in the chapters!

Safety catch

- The handle is equipped with a safety catch on the steam switch, which prevents accidental steam release.
- In the event that the steam suction hose is shortly unattended during operation, it is recommended to activate the safety device (pull out safety catch). In order to trigger the steam release again, deactivate safety device (push safety catch in).

Type plate

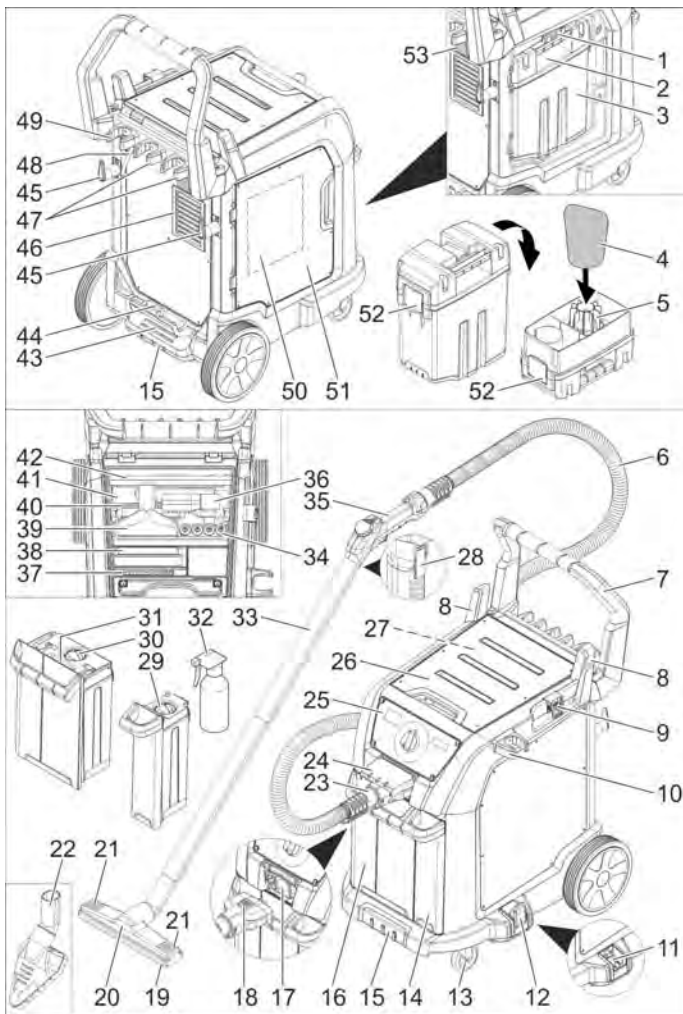


The type plate is located on the bottom rear of the appliance frame.

- 1 Appliance description
- 2 Mains voltage
- 3 Specifications
- 4 Year of manufacture
- 5 Serial number
- 6 Part number
- 7 Weight
- 8 Performance data
- 9 IP rating/ protection class
- 10 Bar code. Contains part and serial number.
- 11 Address of manufacturer

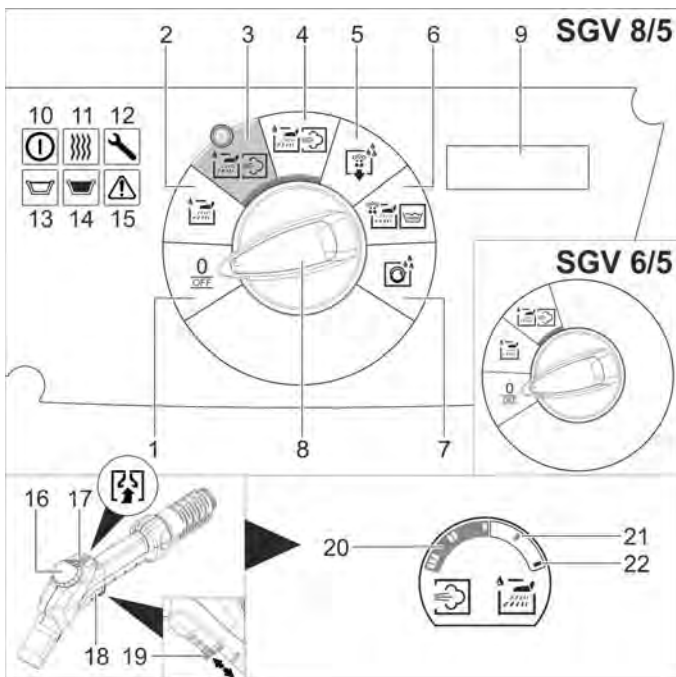
Overview of the appliance

Device elements



- 1 Locking mechanism of the wastewater container
- 2 Lid of the wastewater container
- 3 Wastewater container
- 4 Rough dirt filter
- 5 Filter holder
- 6 Steam suction hose
- 7 Push handle
- 8 Hose switch
- 9 Adapter for accessories (homebase)
- 10 Holder for steam suction pipe (parking position)
- 11 Retainer of the steam suction pipe (self-cleaning) (only SGV 8/5)
- 12 Holder for floor nozzle (parking position)
- 13 Steering roller with fixed position brake
- 14 Detergent container (SGV 8/5)
Container for detergent spray bottle (SGV 6/5)
- 15 Recessed grip
- 16 Fresh water container
- 17 Accessory outlet
- 18 Locking mechanism of the accessory plug
- 19 Rubber lip insert for floor nozzle
- 20 Floor nozzle
- 21 Locking mechanism of the inserts for the floor nozzle
- 22 Triangular nozzle
- 23 Accessory plug
- 24 Cover of the accessory outlet
- 25 Operating field
- 26 Cover of the accessory tray
- 27 Accessory tray
- 28 Accessory lock
- 29 Screw cap of the detergent container (only SGV 8/5)
- 30 Screw cap of the fresh water container
- 31 Carrying handle of the fresh water container, folding
- 32 Detergent spray bottle (only SGV 6/5)
- 33 Steam suction pipe
- 34 Round brush
- 35 Handle
- 36 Detail nozzle/adaptor for crevice nozzle
- 37 Extension for detail nozzle
- 38 Rubber lip for hand nozzle
- 39 Hand nozzle
- 40 Brush collar for hand nozzle
- 41 Crevice nozzle
- 42 Brush strip insert for floor nozzle
- 43 Step depression
- 44 Storage for floor nozzle
- 45 Cable hook, rotating
- 46 Air outlet, working air
- 47 Holder for steam suction pipe
- 48 Power cord
- 49 Holder for triangular nozzle
- 50 Quick start instructions
- 51 Cover of the wastewater container
- 52 Closure of the wastewater container
- 53 Nameplate

Operating field



- 1 0/OFF
- 2 Operating mode: Cold water/suction operation
- 3 Operating mode: Steam/hot water/cold water/suction operation (eco!efficiency)
- 4 Operating mode: Steam/hot water/cold water/suction operation
- 5 Operating mode: Rinsing (SGV 8/5 only)
- 6 Operating mode: Detergent/suction operation (SGV 8/5 only)
- 7 Operating mode: Self-cleaning (SGV 8/5 only)
- 8 Rotating knob
- 9 Display (SGV 8/5 only)
- 10 Indicator lamp "Operational readiness" (green)
- 11 Indicator lamp "Heating on" (green)
- 12 Indicator lamp "Service" (yellow)
- 13 Indicator lamp "Fresh water container empty" (red)
- 14 Indicator lamp "Wastewater container full" (red)
- 15 Indicator lamp "Fault" (red)
- 16 Hand wheel
- 17 Suction button
- 18 Steam switch
- 19 Safety catch
- 20 Steam quantity regulator: Level I-II-III
- 21 Applying hot water
- 22 Applying cold water

AB Service group setup

010 Safety information

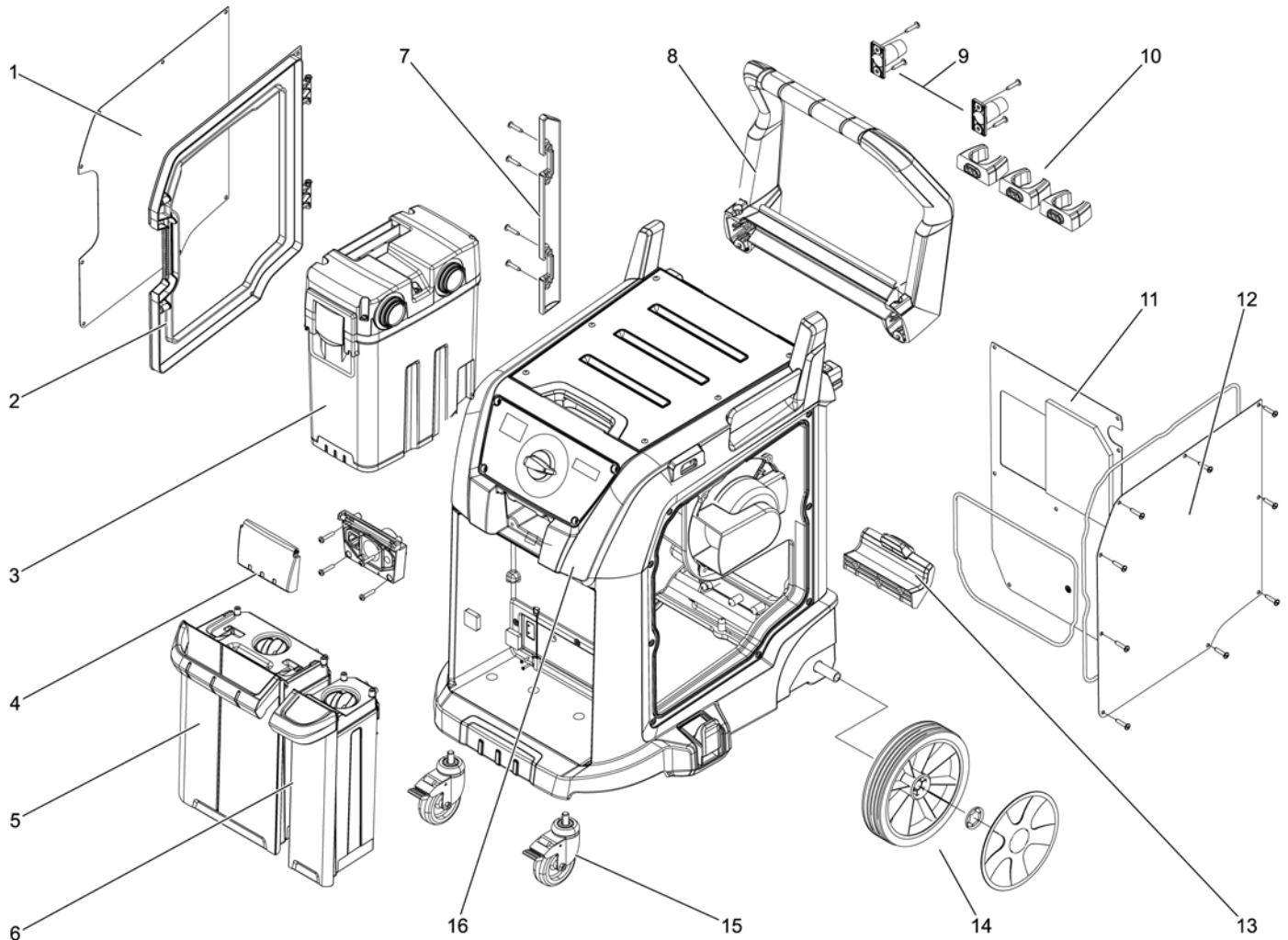
⚠ WARNING

Prior to all work on the appliance, switch off the appliance and pull the power plug.

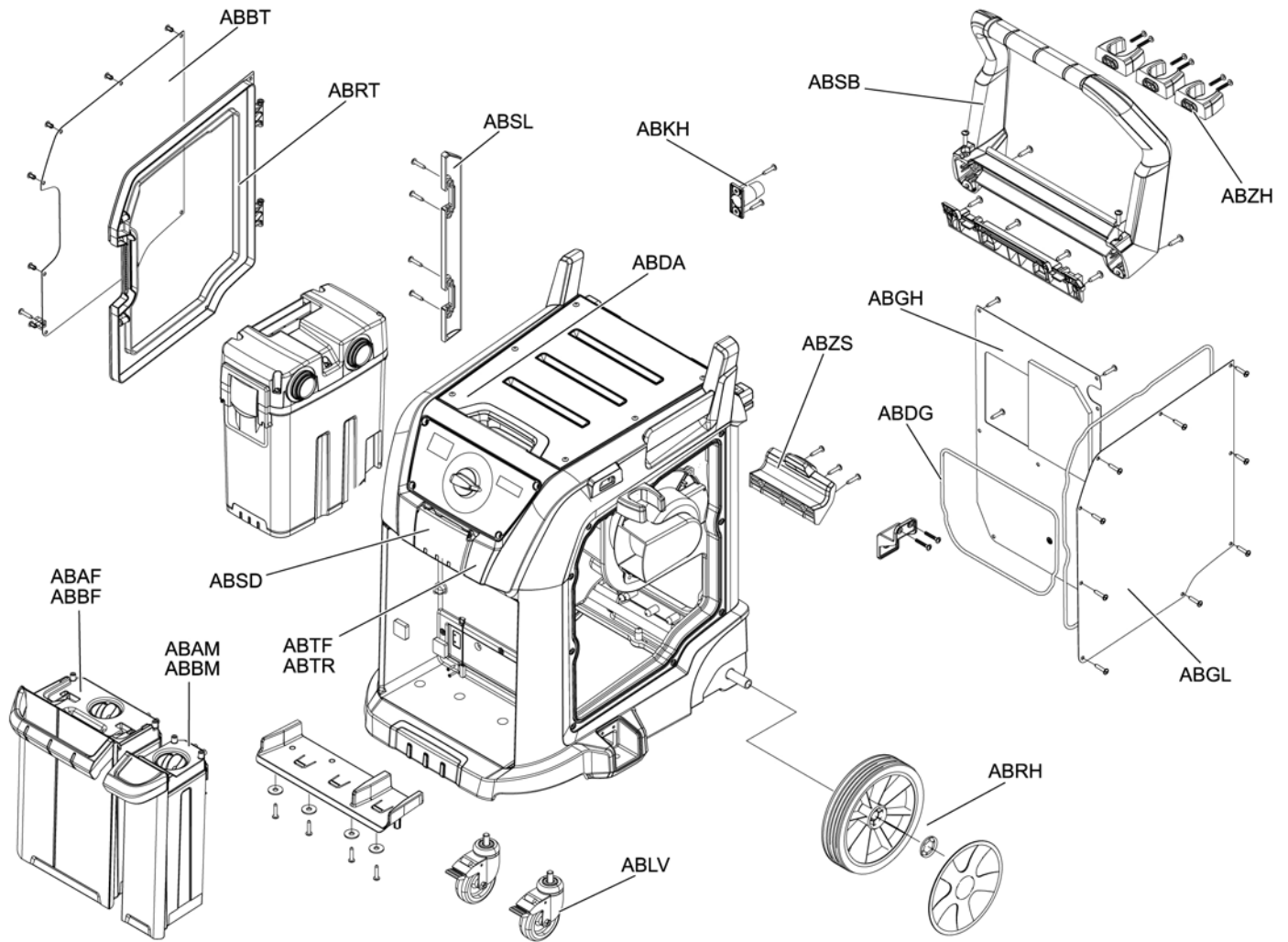
Allow the appliance to cool down prior to performing service tasks.

Observe general safety information!

020 Overview



- 1 Metal sheet door waste water tank
- 2 Frame door waste water tank
- 3 waste water tank
- 4 Socket for accessories
- 5 Fresh water tank
- 6 Detergent Tank
- 7 Hinge band door waste water tank
- 8 Push handle
- 9 Cable hook, rotating
- 10 Accessory compartment
- 11 Appliance cover, rear
- 12 Appliance cover on the left
- 13 Accessory support
- 14 Rear wheel
- 15 Guiding rolls with fixed position brake
- 16 Tank connection fresh water / detergent tank



- ABAF Uninstall/install cover fresh water tank*
- ABBF Uninstall/install faceplate fresh water tank*
- ABAM Uninstall / install cover of the detergent tank*
- ABBM Uninstall/install faceplate detergent tank*
- ABSL Uninstall / install hinge band door waste water tank*
- ABRT Uninstall / install frame door waste water tank*
- ABBT Uninstall / install metal sheet door waste water tank*
- ABZH Uninstall / install accessory hook*
- ABZS Uninstall / install the accessory support*
- ABKH Uninstall / install cable hook*
- ABSB Uninstall / install push handle*
- ABLV Uninstall / install front steering rollers*
- ABRH Uninstall / install wheels in the back*
- ABGH Uninstall / install appliance cover in the back*
- ABDG Uninstall / install seal of the rear appliance cover*
- ABGL Uninstall / install appliance cover on the left side*
- ABSD Uninstall / install socket*
- ABDA Uninstall / install seal of the power electronics cover*
- ABTF Uninstall / install tank connection fresh water*
- ABTR Uninstall / install tank connection detergent tank*

030 Function

The basic unit is characterized by good accessibility and ease of servicing. It has a self-supporting frame made of plastic.

Steam boiler, pumps and valves are mounted on a base support made of stainless steel. The base support can be tilted out of the appliance towards the bottom so that the steam group becomes easily accessible.

The waste water tank is accommodated on the right side of the appliance. It can be removed from the appliance.

A door with a stainless steel cover protects the waste water tank. The door is fastened to the appliance by means of an exchangeable hinge band.

The rear and left appliance covers are made of stainless steel and can be removed. The appliance covers have a circular seal to retain ingressing water.

Fresh water and detergent tank are located at the front of the appliance.

The tanks can be removed from the appliance individually. The push handle can be dismantled.

Accessory holder, accessory support and cable hooks can be replaced.

The front plate of the control unit is screwed together with the appliance and can be dismantled.

An accessory carrier is inserted underneath the upper appliance cover. The cover of the power electronics and the fan are accessible underneath the accessory carrier.

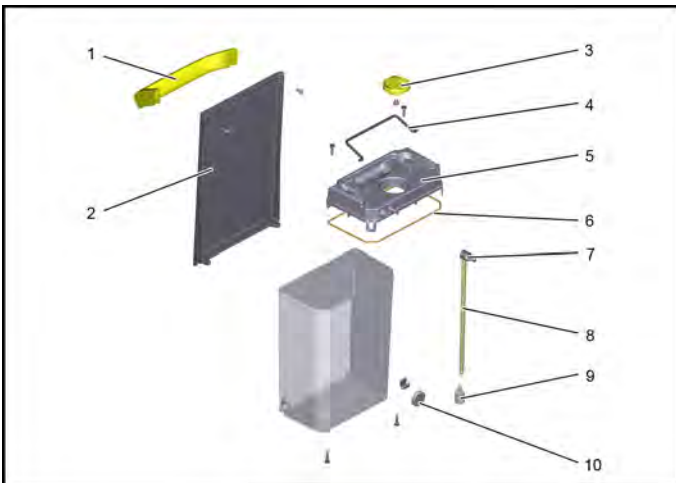
The accessory outlet can be dismantled and contains connections for:

- Steam
- Control
- Suction

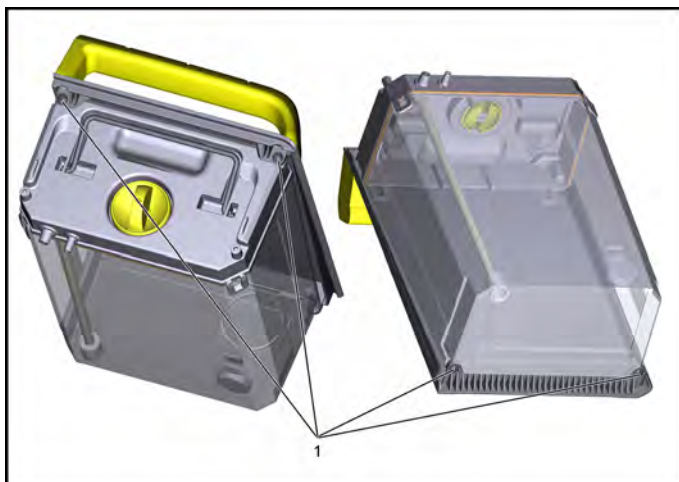
The chassis and suspension consists of two rear wheels on an axle and two steering rollers with parking brake.

040 Service activities

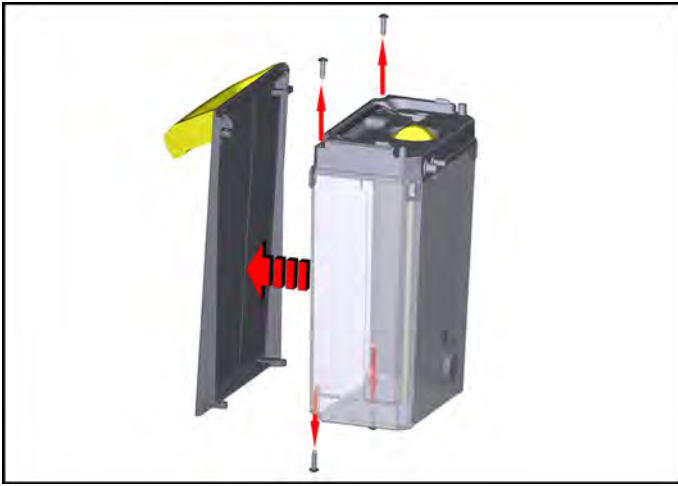
ABAF Uninstall/install cover fresh water tank



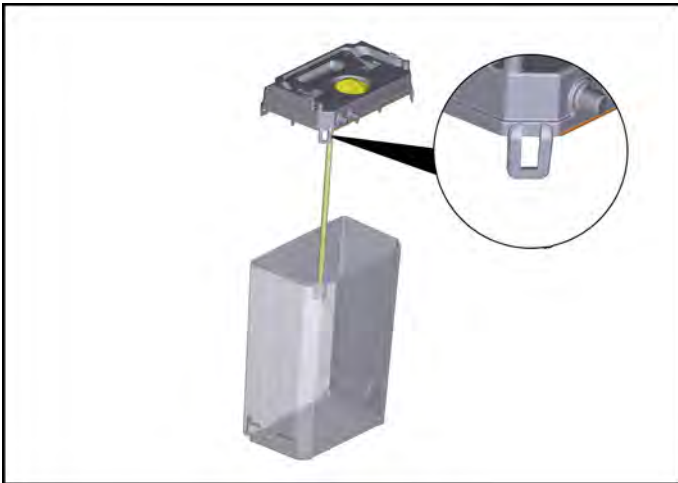
- 1 Handle
- 2 Faceplate fresh water tank
- 3 Fresh water tank cover
- 4 Carry handle
- 5 Cover fresh water tank
- 6 Washer
- 7 Elbow
- 8 Suction hose
- 9 Water filter with weight
- 10 Float



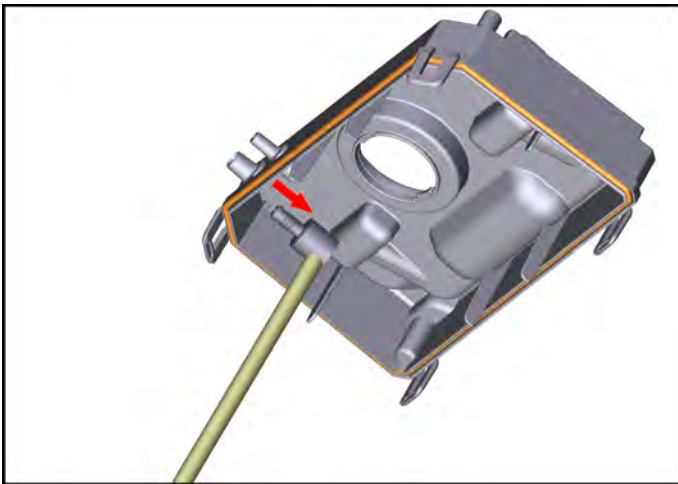
- 1 Screws



- Unscrew the screws.
- Remove faceplate of the fresh water tank.



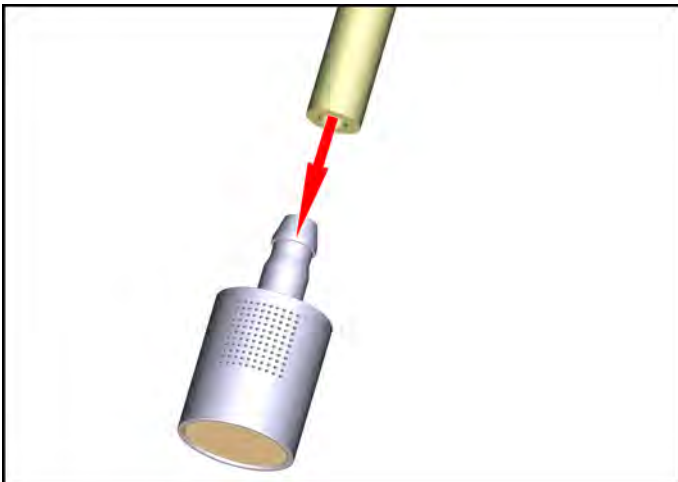
- Loosen the fastening clips.
- Remove cover of the fresh water tank.
- Remove the lid from the fresh water reservoir.



- Pull the elbow out of the retainer.
- Pull the seal out of the groove.

Note

Check the seal for damage and replace it in case of any findings.



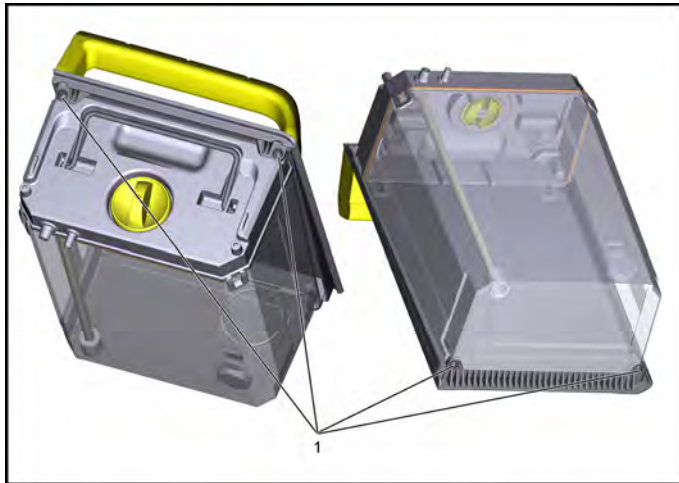
- Remove the water filter from the suction hose.

Note

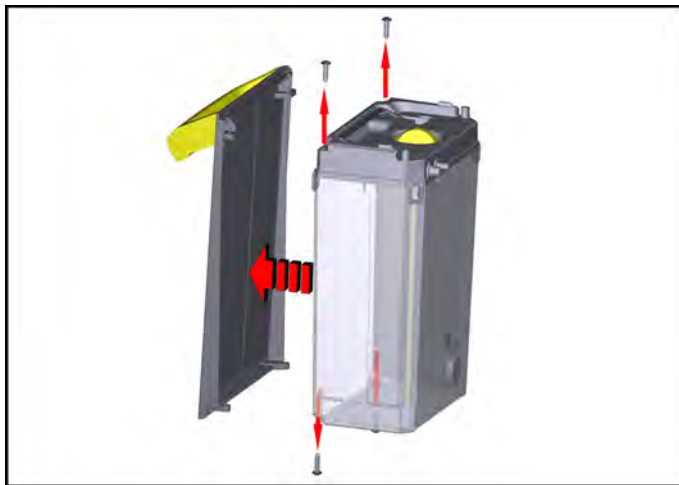
Rinse the water filter with clear water for cleaning. If the soiling cannot be removed, replace the water filter. Replace damaged water filter.

- Tightly press the water filter onto the suction hose upon installation.

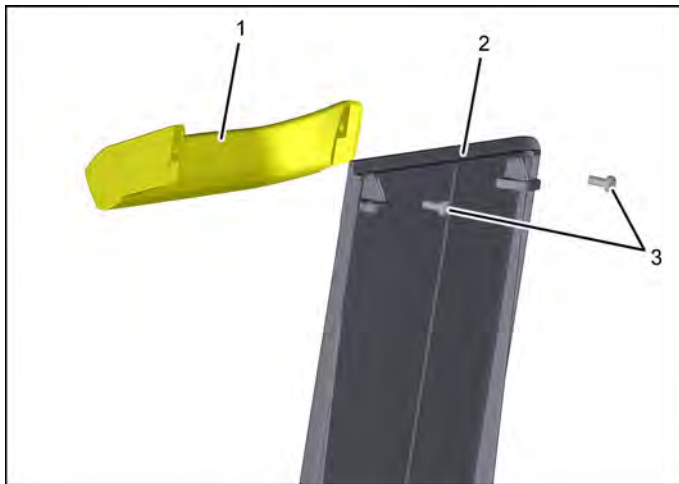
ABBF Uninstall/install faceplate fresh water tank



1 Screws



- Unscrew the screws.
- Remove faceplate of the fresh water tank.



1 Handle
2 Faceplate fresh water tank
3 Screws

- Unscrew the screws.
- Remove the handle from the faceplate.

ABAM Uninstall / install cover of the detergent tank

The procedure conforms to the task:

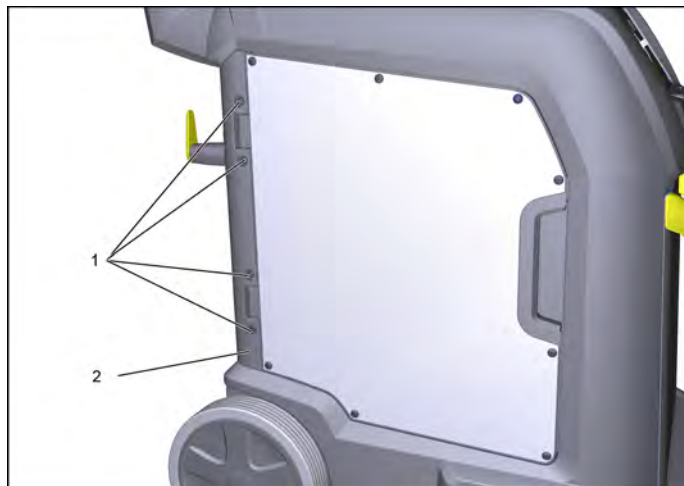
- *ABAF Uninstall/install cover fresh water tank*

ABBM Uninstall/install faceplate detergent tank

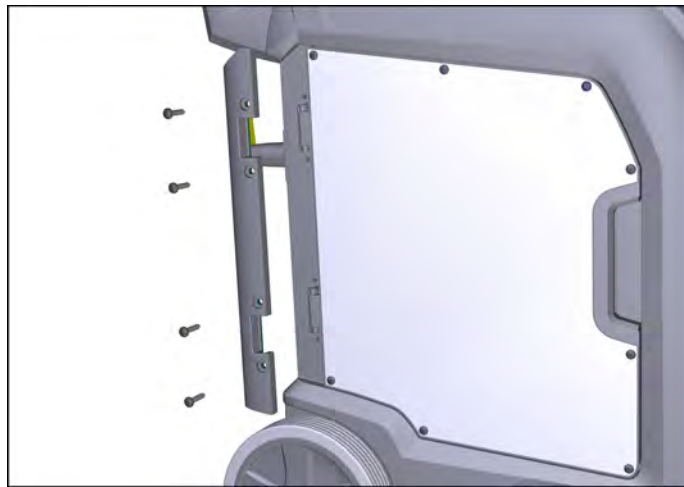
The procedure conforms to the task:

- *ABBF Uninstall/install faceplate fresh water tank*

ABSL Uninstall / install hinge band door waste water tank

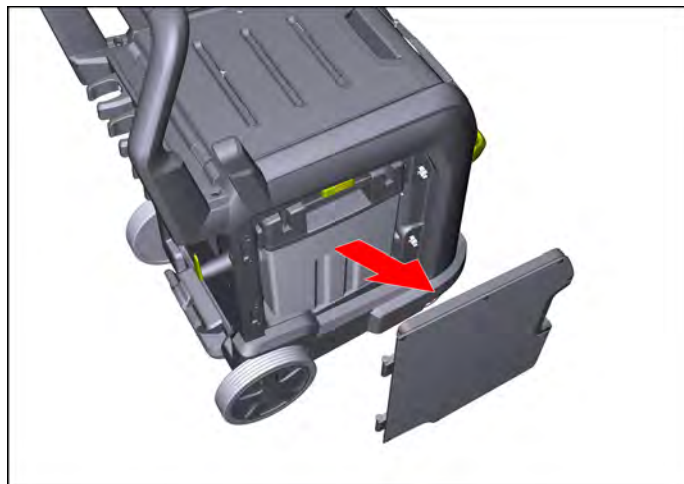


- 1 Screws
- 2 Hinge band



- Unscrew the screws.
Torx T20
- Remove the hinge band.

ABRT Uninstall / install frame door waste water tank



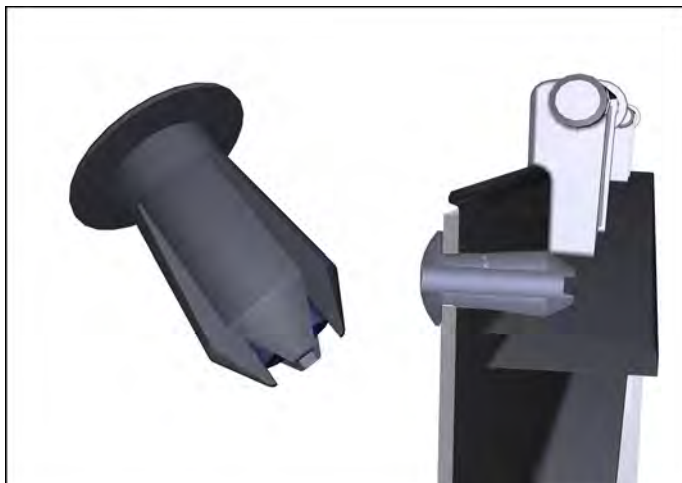
- *ABSL Uninstall / install hinge band door waste water tank*
- Pull the door of the waste water tank out of the retainers.

ABBT Uninstall / install metal sheet door waste water tank

- *ABSL Uninstall / install hinge band door waste water tank*
- *ABRT Uninstall / install frame door waste water tank*



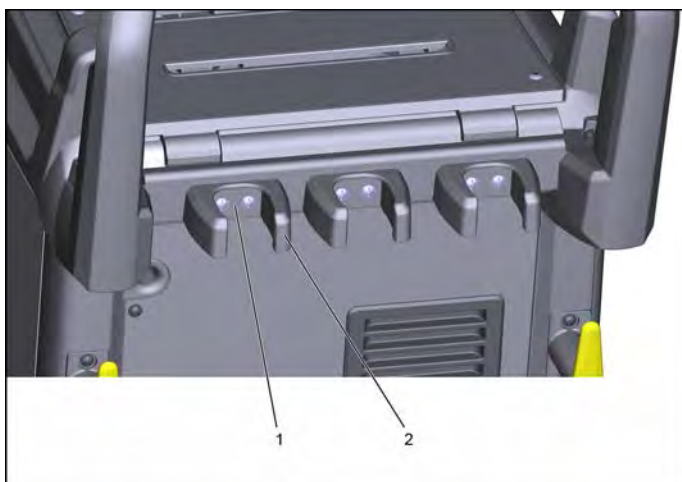
- ➔ Push all expanding rivets out of the frame.
- ➔ Remove metal sheet.



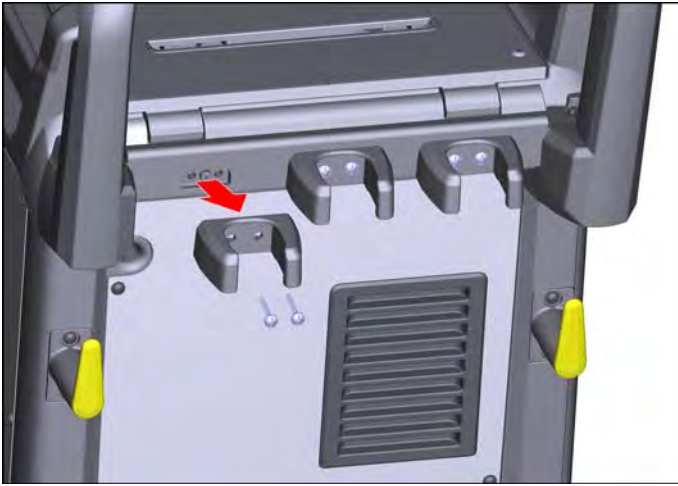
Installation information

- ➔ Do not reuse expanding rivets that were damaged upon removal.
- ➔ Place the metal sheet on the frame and fit expanding rivet.
- ➔ Align the metal sheet.
- ➔ Firmly push in the expanding rivet.

ABZH Uninstall / install accessory hook

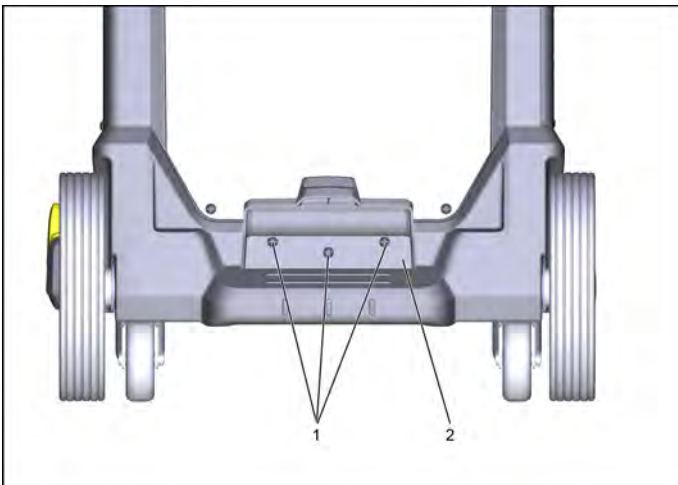


- 1 Screws
- 2 Accessory hook

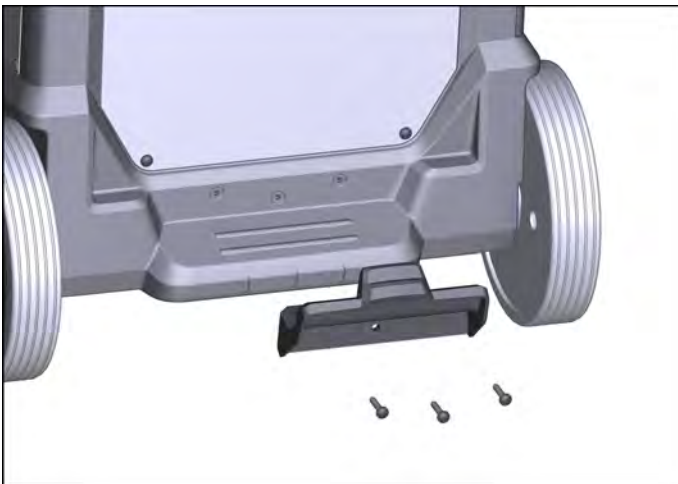


- Unscrew the screws.
- Pull the accessory hook out of the retainer.

ABZS Uninstall / install the accessory support



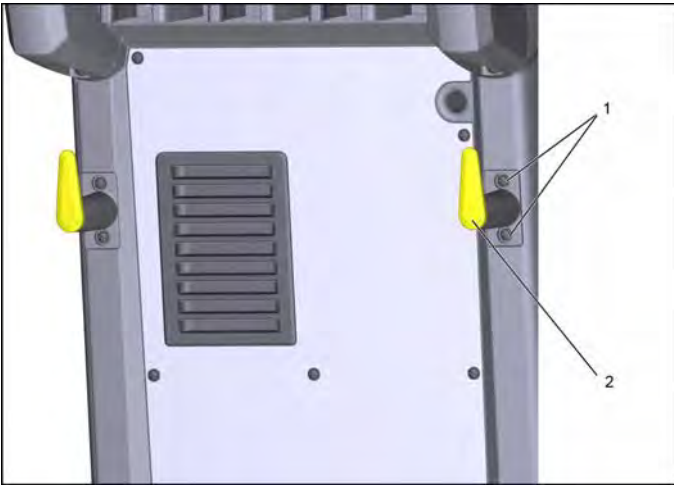
- 1 Screws
- 2 Accessory support



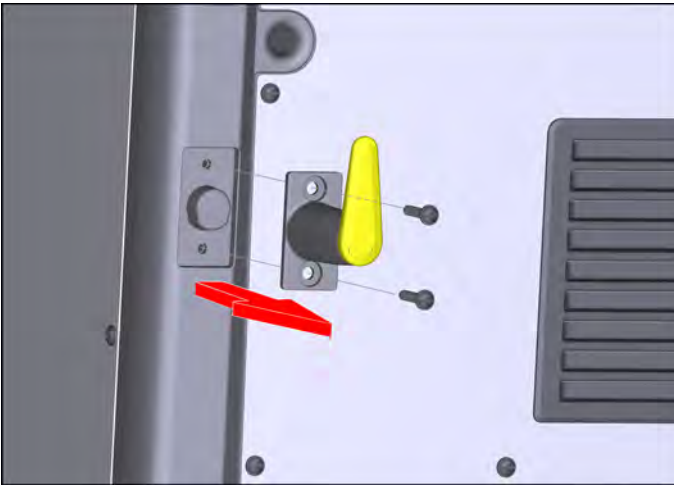
- Unscrew the screws.
- Pull the accessory hook out of the retainer.

ABKH Uninstall / install cable hook

- 1 Screws
- 2 Cable hook

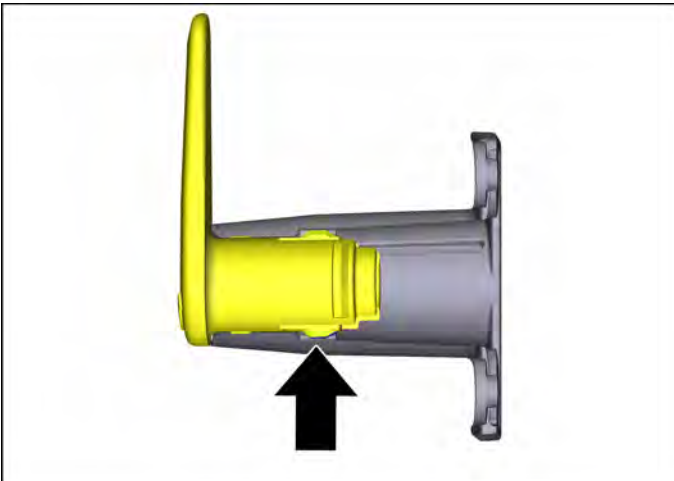


- ➔ Unscrew the screws.
- ➔ Remove the cable hook from the holder.



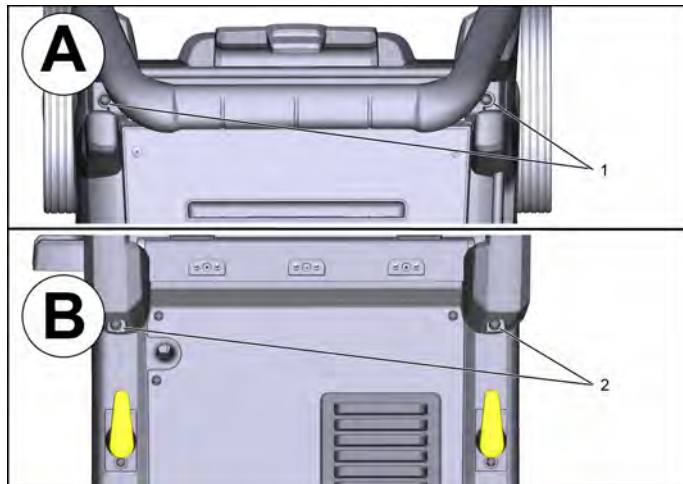
Note

The rotating part of the cable hook is engaged in the retainer. With sluggish cable hooks, check if the rotating part is pulled out of the retainer.



ABSB Uninstall / install push handle

■ ABZH Uninstall / install accessory hook



A View from above

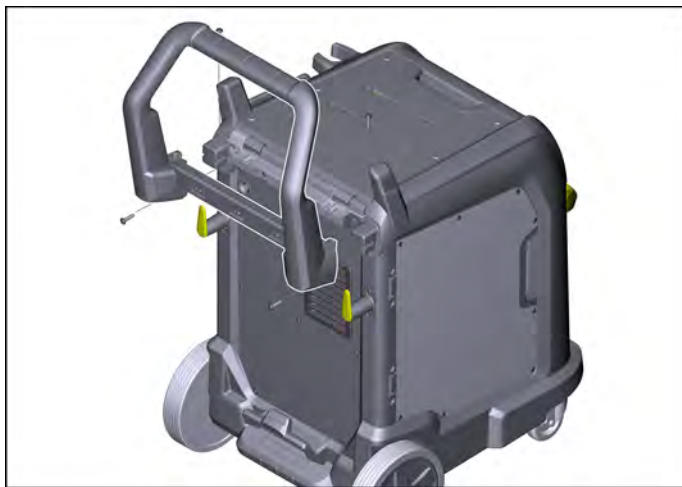
B Rear view

1 Top screws

2 Screw back / bottom

→ Unscrew the screws at the top and at the back / bottom.

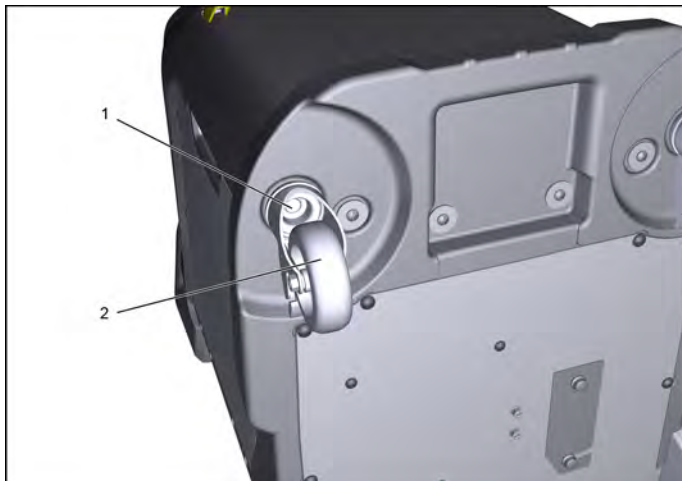
→ Remove the push handle.



ABLV Uninstall / install front steering rollers

1 Inner hexagonal screw

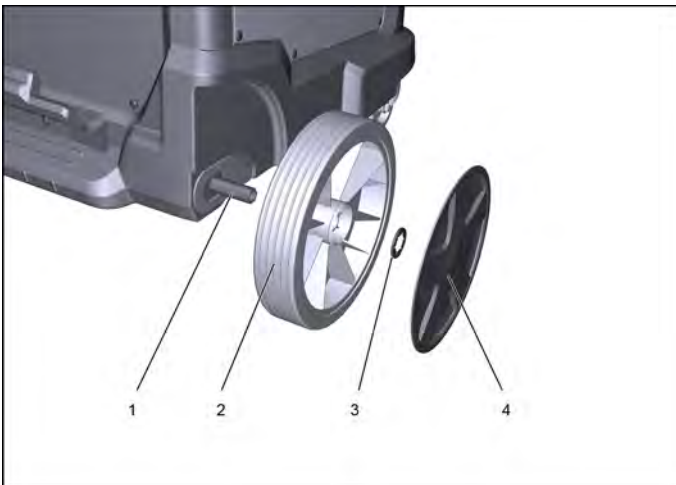
2 Steering roller





- Unscrew the hexagon socket screw.
- Pull the steering roller out of the frame.

ABRH Uninstall / install wheels in the back



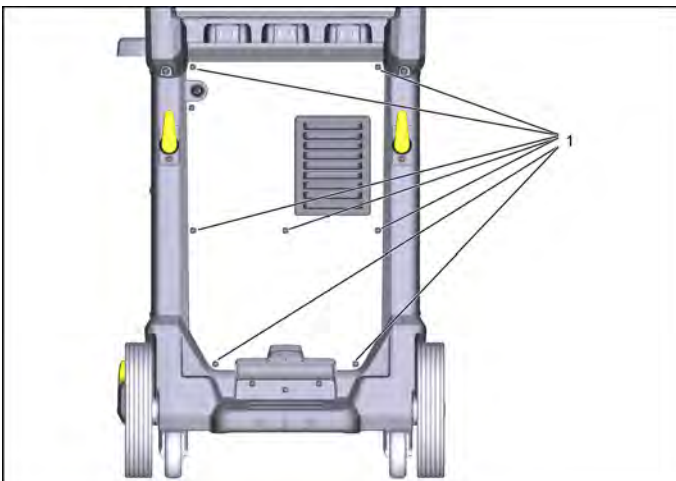
- 1 Axle
- 2 Wheel
- 3 Safety disc
- 4 Wheel cap

- Carefully wedge the wheel cap free.
- Remove the safety disc.
- Pull the wheel off the axle.

Note

Replace the locking washer in case of damage.

ABGH Uninstall / install appliance cover in the back



- 1 Screws



- Unscrew the screws.
- Remove the cover towards the back.



- Unplug the protective conductor cable.
- Lift the cover over the accessory support and remove it from the appliance.

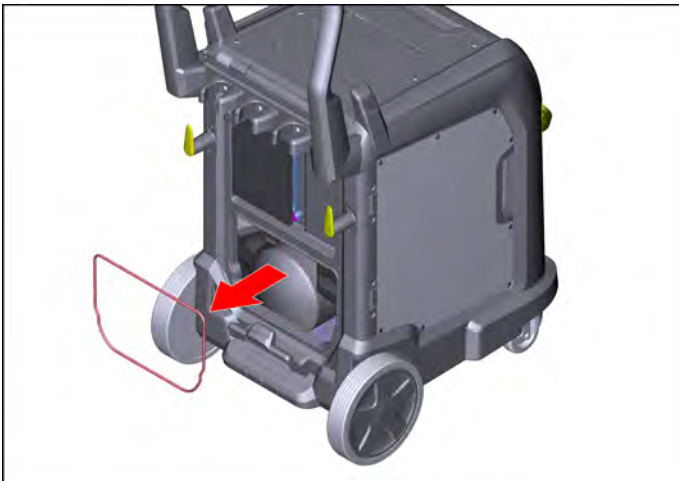
Installation information

Ensure the correct seating of the seal during installation.

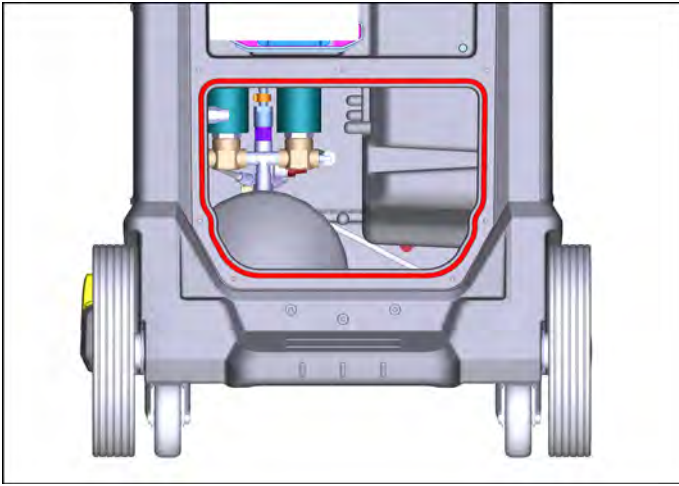
ABDG Uninstall / install seal of the rear appliance cover

- *ABGH Uninstall / install appliance cover in the back*

For better visibility, the seal is shown in red.



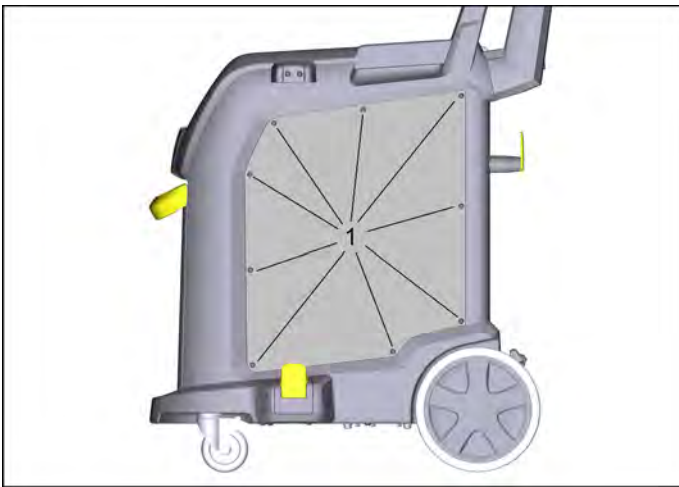
- Pull the seal out of the groove.



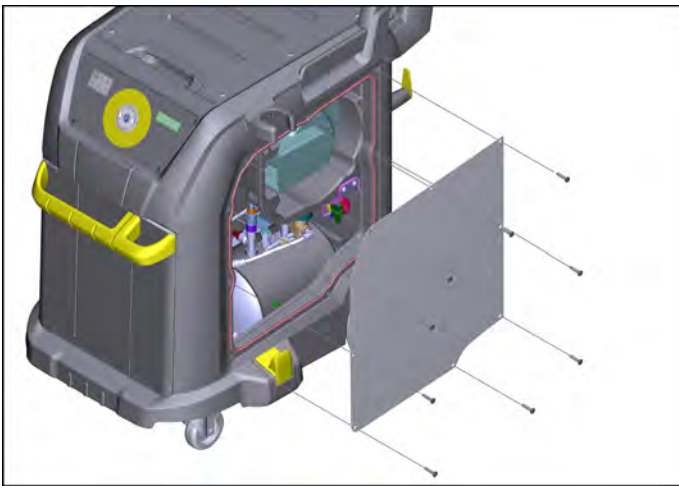
Installation information

Ensure the correct seating of the seal during installation.

ABGL Uninstall / install appliance cover on the left side



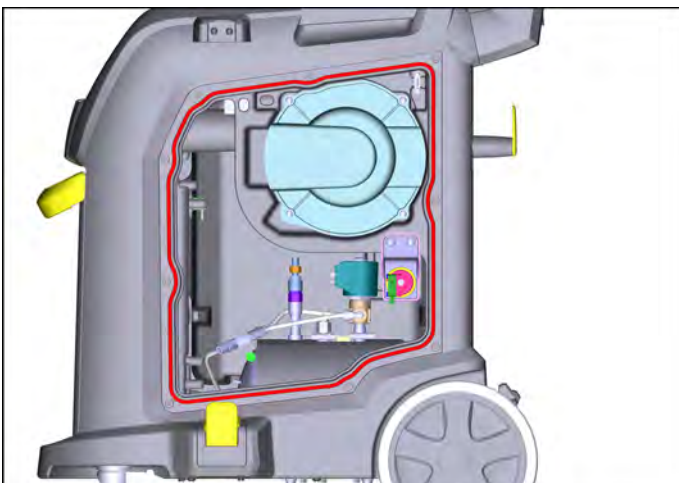
1 Screws



- Unscrew the screws.
- Remove appliance cover.

Note

Protective conductor is inserted on the inside of the device cover.

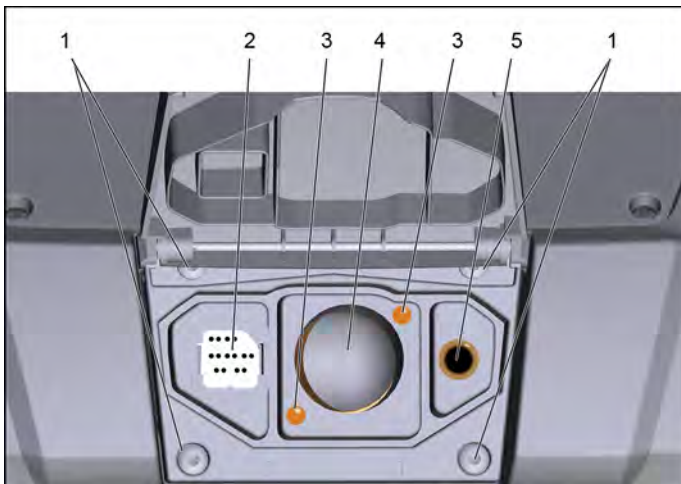


Installation information

Ensure the correct seating of the seal during installation.

For better visibility, the seal is shown in red.

ABSD Uninstall / install socket



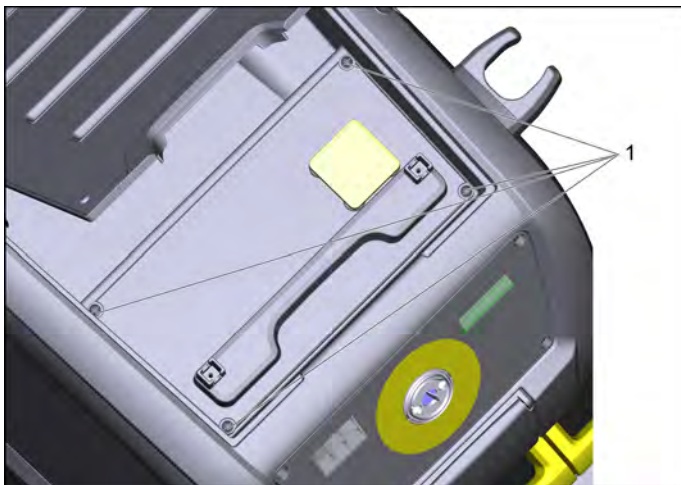
- 1 Screws
- 2 Connection control electrics manual nozzle
- 3 Conductive bolt
- 4 Suction hose connection
- 5 Steam connection

- ➔ Unscrew the screws.
- ➔ Remove the socket from the appliance.
- ➔ Unclip connection control electrics manual nozzle.
- ➔ Remove the steam line.

Installation information

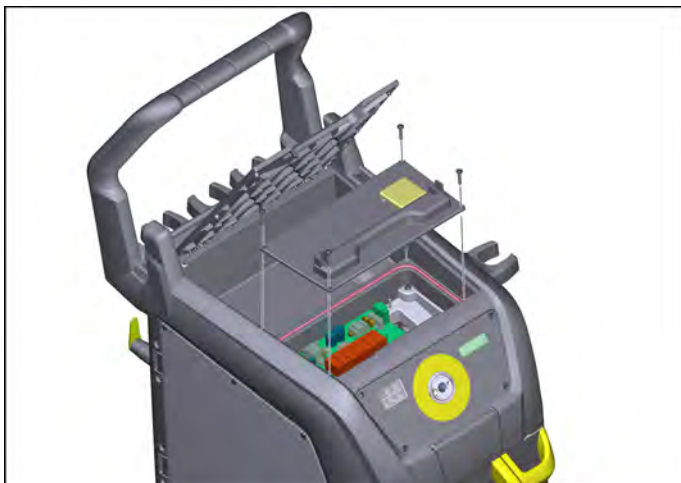
Check plug and lines for correct seating upon installation.

ABDA Uninstall / install seal of the power electronics cover



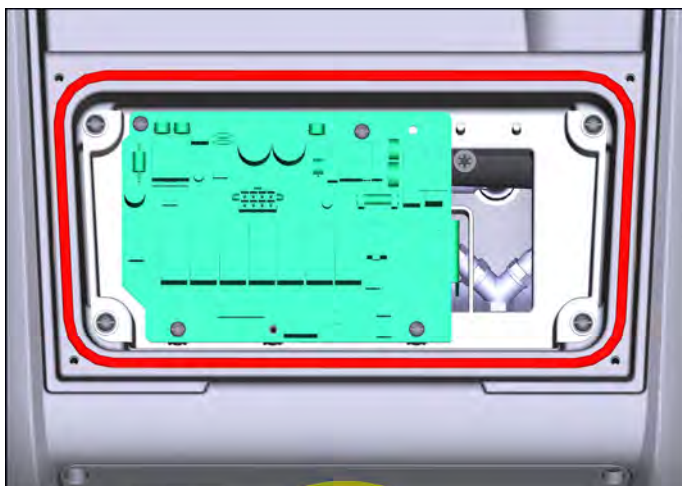
- 1 Screws

- ➔ Unscrew the screws.
- ➔ Remove cover.





→ Pull the seal out of the groove.



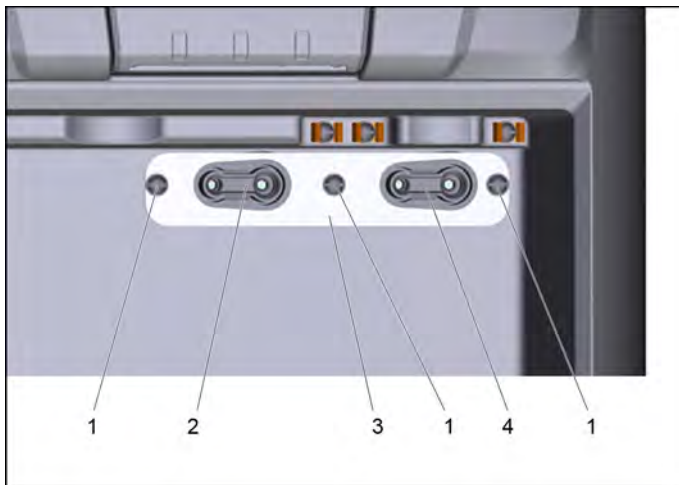
Installation information

Ensure the correct seating of the seal during installation.

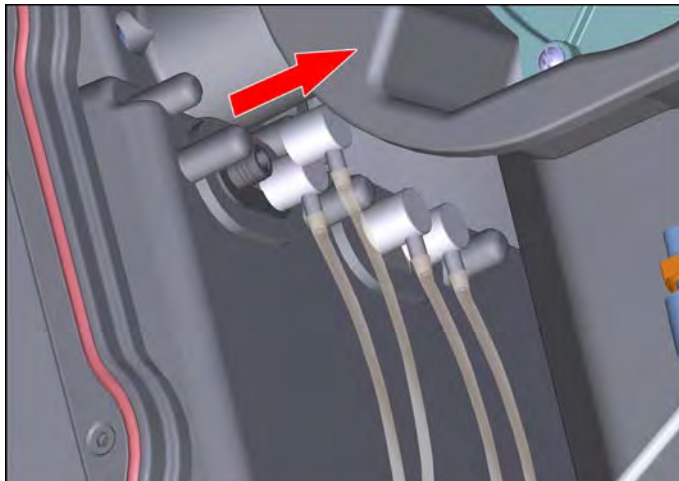
For better visibility, the seal is shown in red.

ABTF Uninstall / install tank connection fresh water

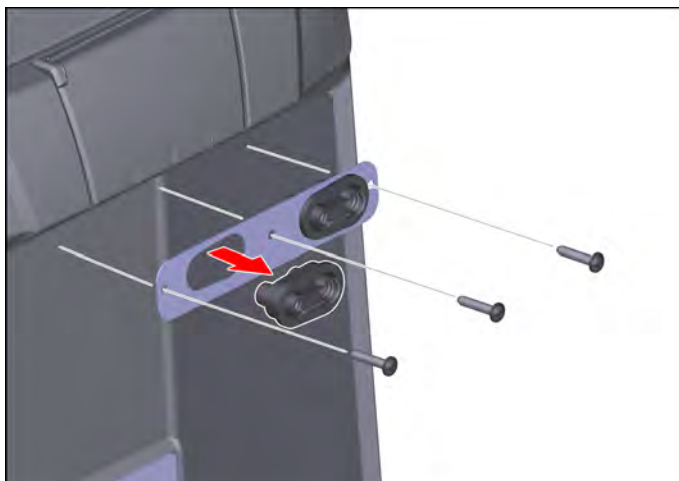
- *ABGL Uninstall / install appliance cover on the left side*
- ➔ Remove the fresh water tank from the appliance.
- ➔ Remove the detergent tank from the appliance.



- 1 Screw
- 2 Tank connection fresh water tank
- 3 Support plate
- 4 Tank connection detergent tank



- ➔ Remove the elbow from the tank connection on the inside of the appliance.



- ➔ Unscrew the screws.
- ➔ Loosen the support plate.
- ➔ Pull the tank connection out of the support plate.

ABTR Uninstall / install tank connection detergent tank

The procedure conforms to the task:

- *ABTF Uninstall / install tank connection fresh water*

050 Maintenance and inspection

Service group does not contain any maintenance and inspection points.

060 Error diagnosis

Findings	Possible cause	Correction
Water in the appliance	Seal for the rear appliance cover damaged.	Replace seal.
	Seal for the left appliance cover damaged.	
	Seal for the cover of the power electronics damaged	
No fresh water or detergent is drawn in.	Filter in the tank clogged.	Clean or replace the water filter.
	Suction hose in the tank clogged or pulled off.	Check, clean and attach suction hose.
	Tank connection, elbow clogged or damaged.	Check, clean, replace tank connection.
Door of the waste water tank does not close properly.	Hinge damaged.	Replace hinge band / frame door waste water tank.

070 Peculiarities/ others

The service group does not contain any peculiarities.

AC Service group suction system

010 Safety information

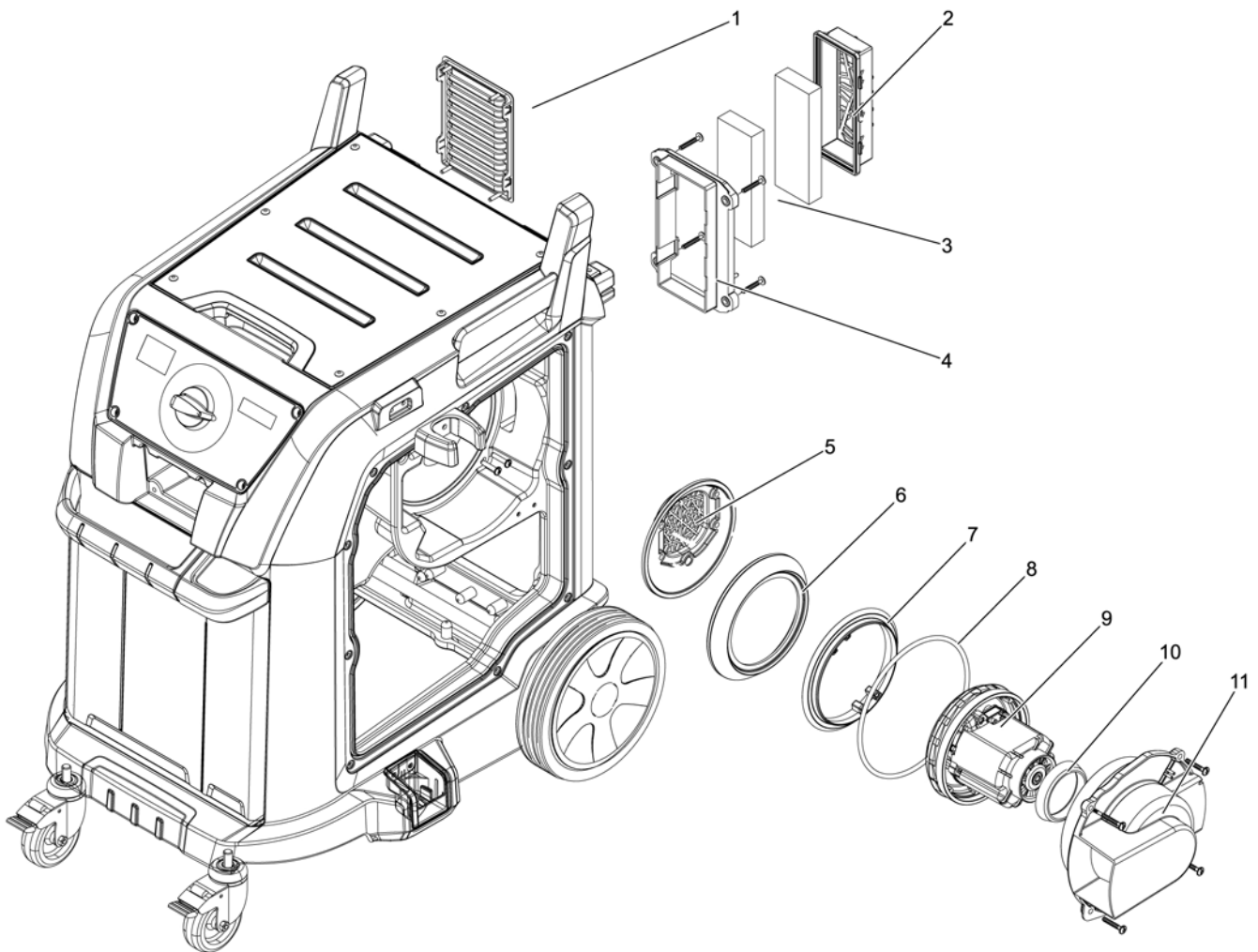
⚠ WARNING

Prior to all work on the appliance, switch off the appliance and pull the power plug.

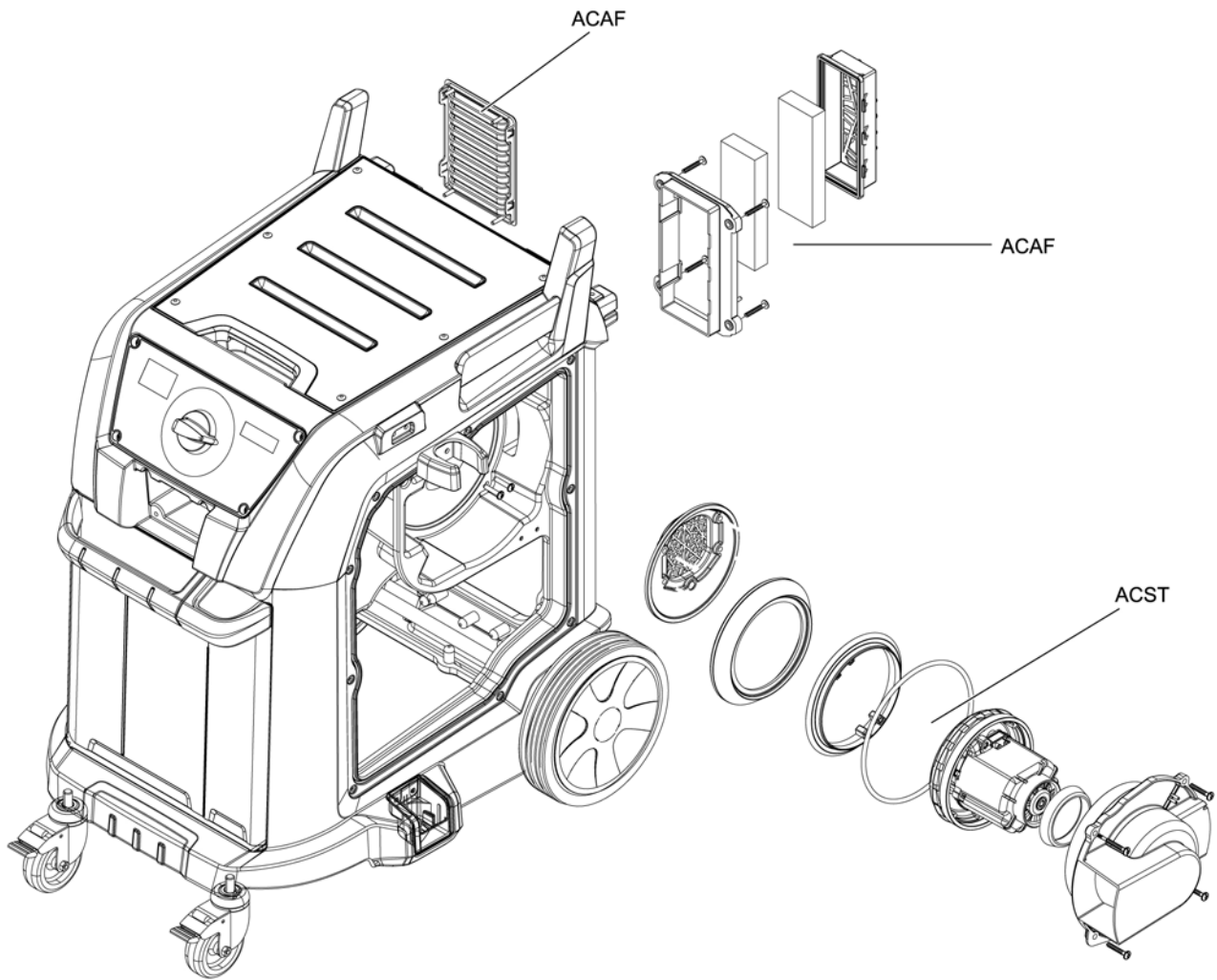
Allow the appliance to cool down prior to performing service tasks.

Observe general safety information!

020 Overview

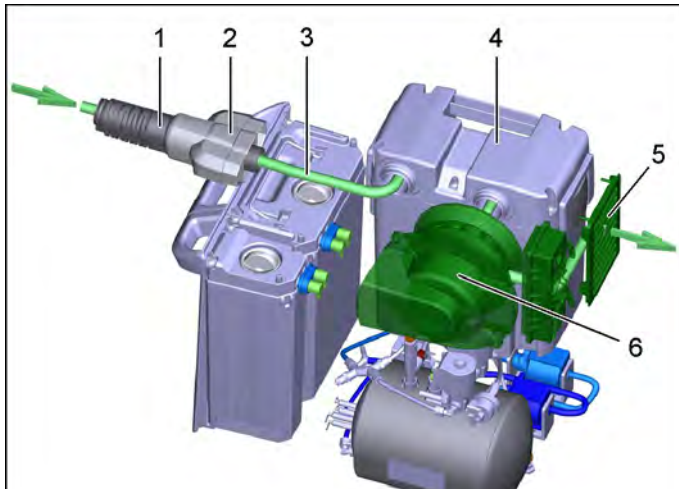


- 1 Grid exhaust opening
- 2 Casing blower filter
- 3 Filter inlay
- 4 Filter casing
- 5 Grid supply air
- 6 Lower gasket
- 7 Seal suction turbine
Centre
- 8 Profile packing
Foam rubber
- 9 Suction turbine
- 10 Seal suction turbine
- 11 Cover suction turbine / air channel



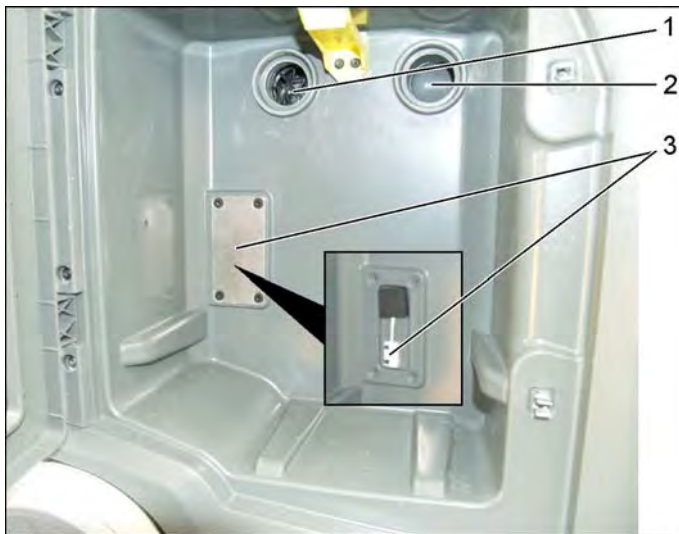
*ACAF Uninstall / install exhaust filter
ACST Uninstall/ install suction turbine*

030 Function

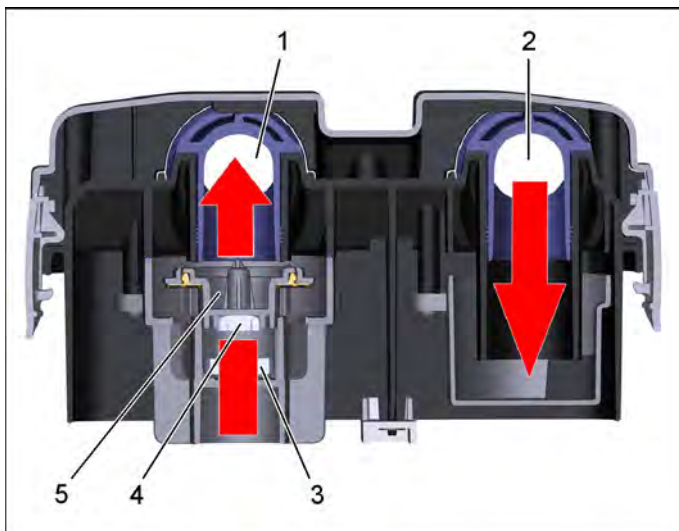


Flow chart of the air through the suction system:

- 1 Suction hose
- 2 Socket
- 3 Connection hose
- 4 waste water tank
- 5 Exhaust filter
- 6 Suction turbine



- 1 Suction turbine
- 2 Waste water tank supply
- 3 Reed switch

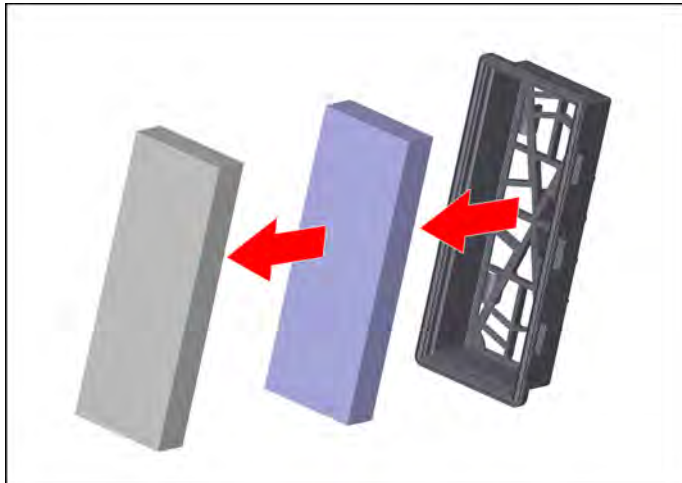
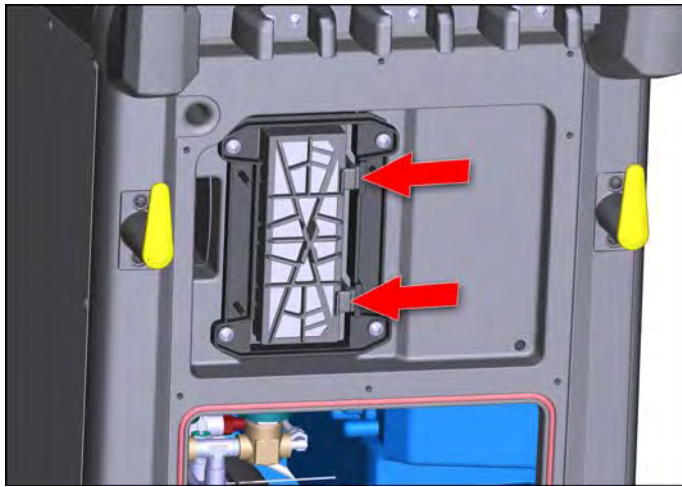


- 1 Opening for suction turbine
- 2 Inlet port for waste water
- 3 Disc
- 4 Magnet
- 5 Backflow valve

When switched off, the suction turbine is protected against penetrating water by a magnetic check valve. During vacuuming operations, the suction turbine is switched off automatically using a reed switch when the waste water tank is full.

040 Service activities

ACAF Uninstall / install exhaust filter

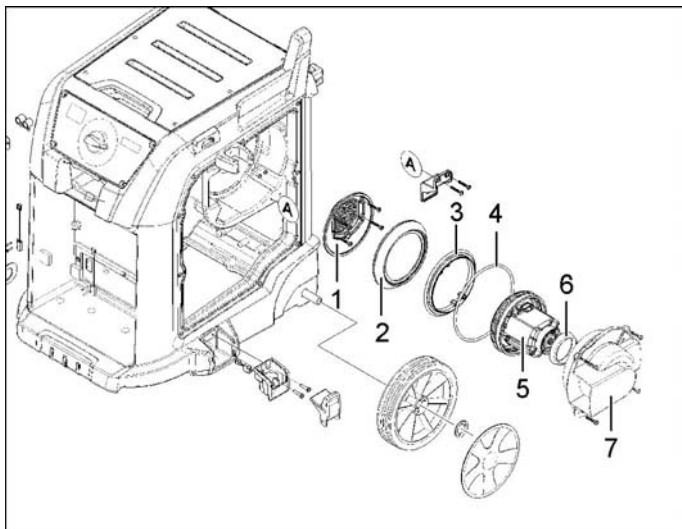


■ *ABGH Uninstall / install appliance cover in the back*

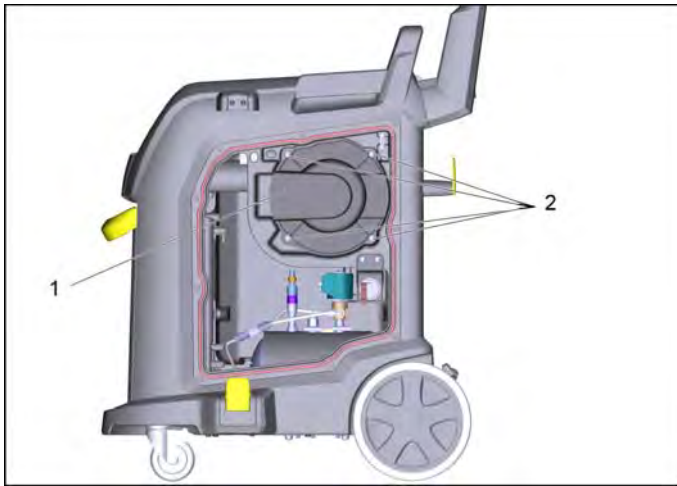
→ Push in the locking mechanism of the filter casing and remove the filter casing.

→ Take out the filter inlay.

ACST Uninstall/ install suction turbine



- 1 Grid supply air
- 2 Lower gasket
- 3 Seal suction turbine
Centre
- 4 Profile packing
Foam rubber
- 5 Suction turbine
- 6 Seal suction turbine
- 7 Turbine cover

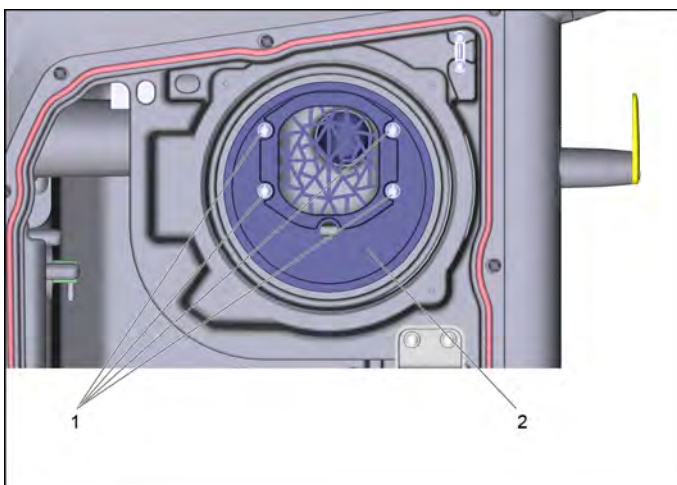


- 1 Turbine cover
- 2 Screws

- ➔ Unscrew the screws.
- ➔ Remove turbine cover.
- ➔ Remove the suction turbine from the appliance.



- ➔ Separate the electric connectors.
- ➔ Take the connection cable through the turbine cover.
- ➔ Remove the seals and sealing cone from the suction turbine.



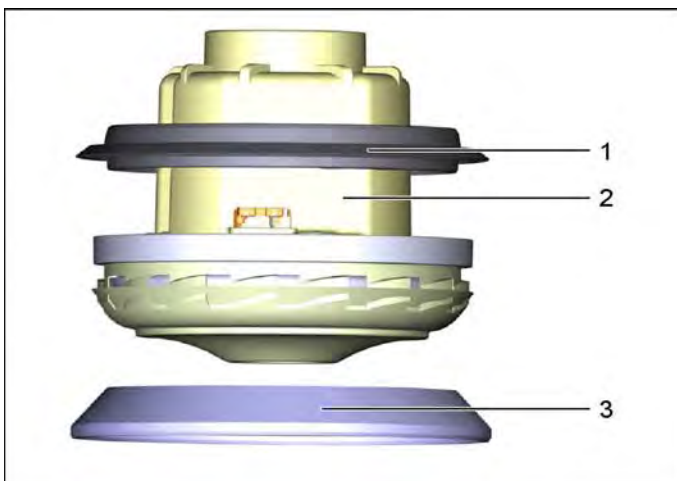
- 1 Screws
- 2 Grid supply air

- ➔ Unscrew the screws.
- ➔ Remove the supply air grid from the appliance.

Note

A connecting piece of the waste water tank is located behind it.

- ➔ Remove present soiling.



- 1 Seal suction turbine
Centre
- 2 Suction turbine
- 3 Lower gasket

Installation information

Make sure the seals are aligned properly during installation.

050 Maintenance and inspection

Service group does not contain any maintenance and inspection points.

060 Error diagnosis

Findings	Possible cause	Correction
No suction effect.	Suction turbine defective.	Replace the suction turbine.
	Connecting piece of the waste water tank clogged.	Uninstall suction turbine, clean connecting piece.
Suction turbine does not run	Electrical connection disconnected.	Check the electrical connection.
	Suction turbine defective.	Replace the suction turbine.

070 Peculiarities/ others

The service group does not contain any peculiarities.

AD Service group steam system

010 Safety information

⚠ WARNING

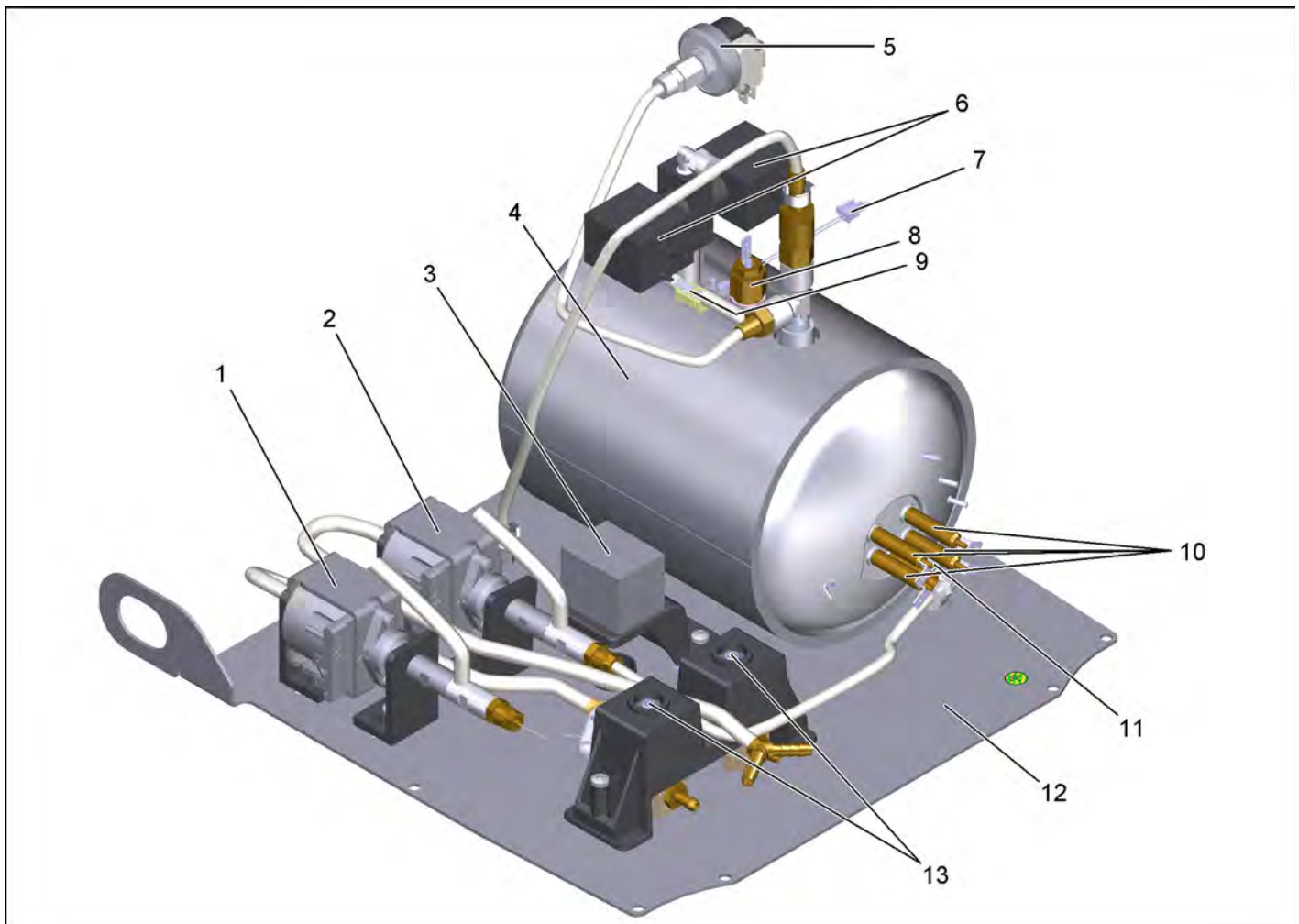
Prior to all work on the appliance, switch off the appliance and pull the power plug.

Allow the device to cool down prior to performing any service tasks.

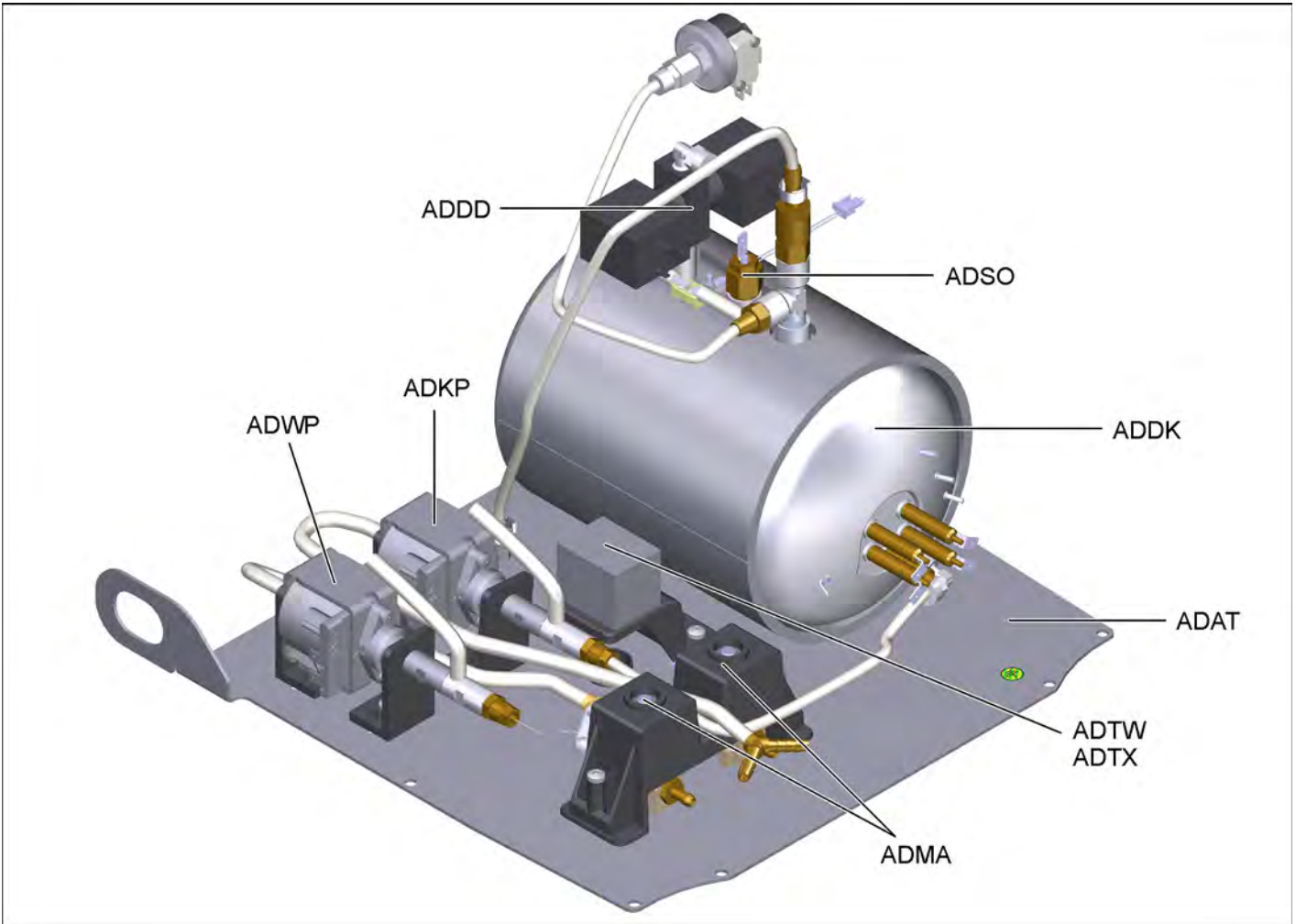
Relieve the high pressure system of all pressure prior to all work on the appliance and the accessories.

Observe general safety information!

020 Overview

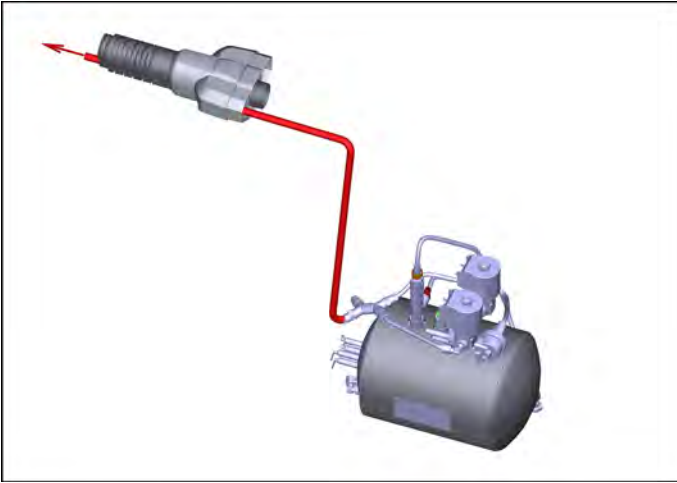


- 1 Water pump
- 2 Boiler pump
- 3 Low-water thermostat
- 4 Steam boiler
- 5 Pressure switch
- 6 Pressure valves steam boiler
- 7 Temperature sensor heating boiler
- 8 Fuse
- 9 Probe water level
- 10 Heating elements
- 11 Probe thermostat water shortage
- 12 Carrier
- 13 Solenoid valves



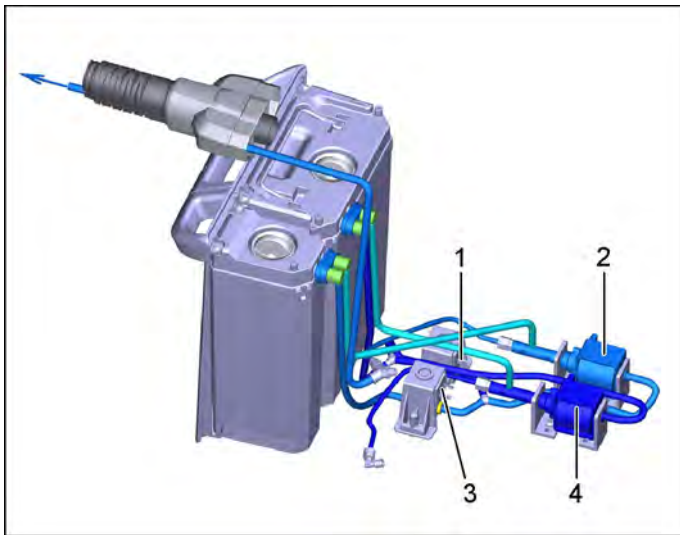
- ADSO Uninstall / install probe water level*
- ADDD Uninstall / install pressure valves steam boiler*
- ADAT Open / close carrier*
- ADWP Uninstall / install water pump*
- ADKP Uninstall / install boiler pump*
- ADMA Uninstall / install solenoid valve*
- ADTW Uninstall / install water shortage thermostat*
- ADTX Activating the reset button thermostat water shortage*
- ADDK Uninstall / install steam boiler*

030 Function



From the fresh water container, water is pumped into the steam boiler using the boiler pump.
The water is heated.
When operating the steam switch on the handle, the valves on the steam boiler open.
The steam flows through the socket into the connected accessory.
The steam boiler temperature is monitored. The steam boiler is switched off by the pressure switch when the nominal pressure has been reached.
A pressure relief valve protects the steam boiler. Over-pressure media (water / steam) are dissipated via a hose and a drilled hole in the base support.

As long as the suction mode is switched off, both heaters will run (2kW & 1kW), USA device (1.2kW & 0.4kW). If the suction turbine is switched on, the 1kW heater will switch off. This ensures a higher network utilisation during the pure steam operation.



- 1 Solenoid valve right
- 2 Water pump
- 3 Solenoid valve left
- 4 Boiler pump

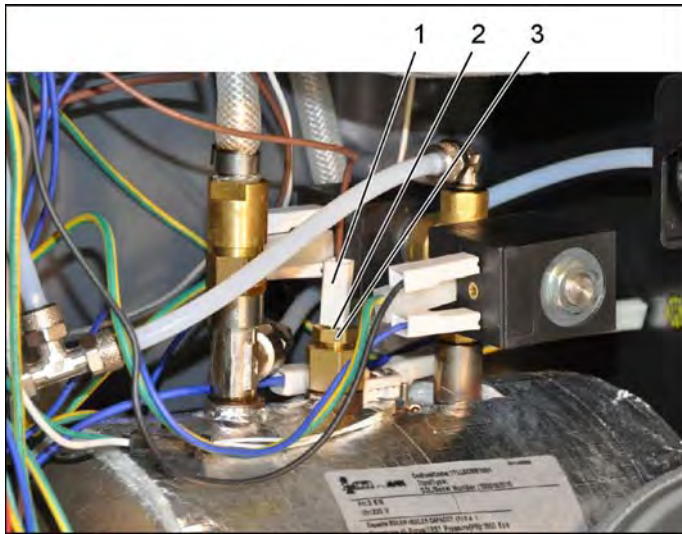
If cold water is set at the handwheel, the water pump will deliver water through the steam hose and to the connected up accessories in combination with the right-hand solenoid valve.

If warm water is set at the handwheel, the water pump will deliver water, which is mixed with steam from the boiler in order to heat it up, in combination with the right-hand solenoid valve. To do that, the left-hand solenoid valve on the boiler opens.

The water/chemical pump only delivers chemicals if the detergent/vacuumping operation operating mode has been selected on the control panel rotary switch.
The left-hand solenoid valve is opened in this selection position.

040 Service activities

ADSO Uninstall / install probe water level

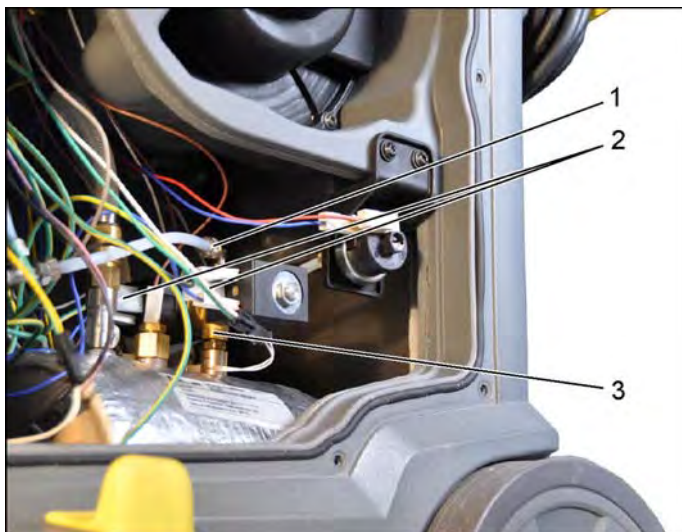


■ *ABGL Uninstall / install appliance cover on the left side*

- 1 Electric connectors
- 2 Probe water level
- 3 Nut

- ➔ Separate the electric connectors.
- ➔ Loosen the nuts.
- ➔ Pull out probe.

ADDD Uninstall / install pressure valves steam boiler



■ *ABGL Uninstall / install appliance cover on the left side*

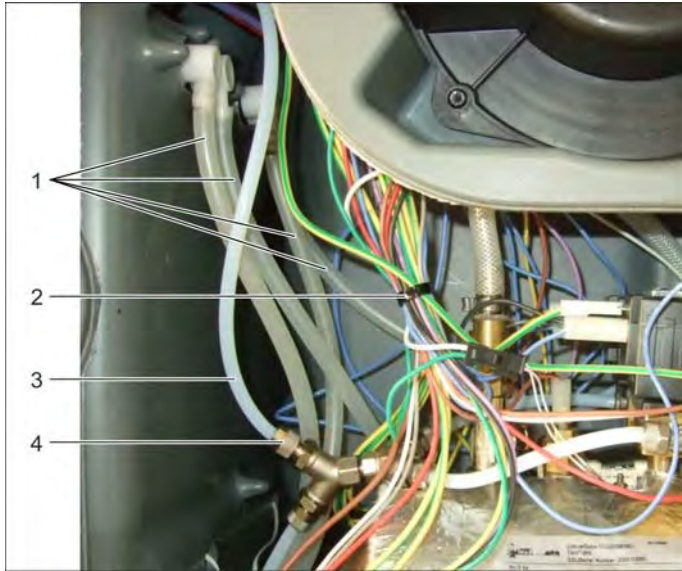
- 1 Nut
- 2 Electric socket plug connections
- 3 Solenoid valves Duo

- ➔ Separate the electric connectors.
- ➔ Loosen the nuts.
- ➔ Unscrew the solenoid valves.

Note

Solenoid valves are only offered as a complete spare part.

ADAT Open / close carrier



■ ABGL Uninstall / install appliance cover on the left side

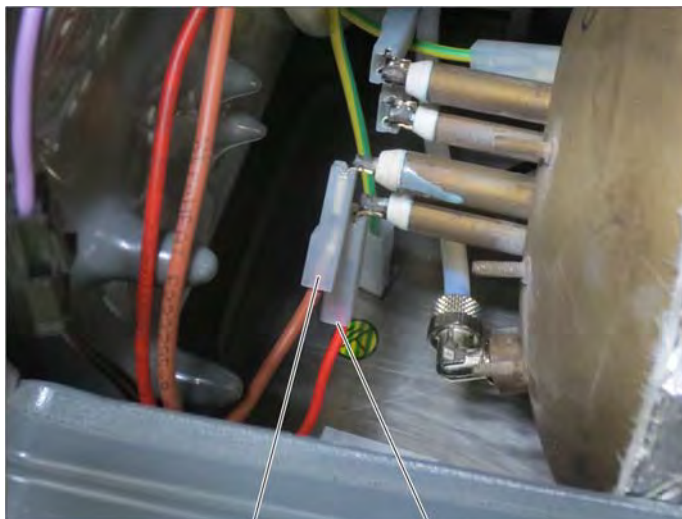
- 1 Water hoses
- 2 Cable tie
- 3 Nut steam connection
- 4 Hose steam connection

- ➔ Remove tanks.
- ➔ Mark and pull off the hoses.
- ➔ Loosen the nut of the steam connection.

Note

Residual pressure present.

- ➔ Pull off the hose of the steam connection.
- ➔ Remove the cable ties.



- 1 brown
- 2 red

Note

- ➔ When connecting the steam boiler, observe the various country variants.

EU	1	2
JAPAN/USA	2	1



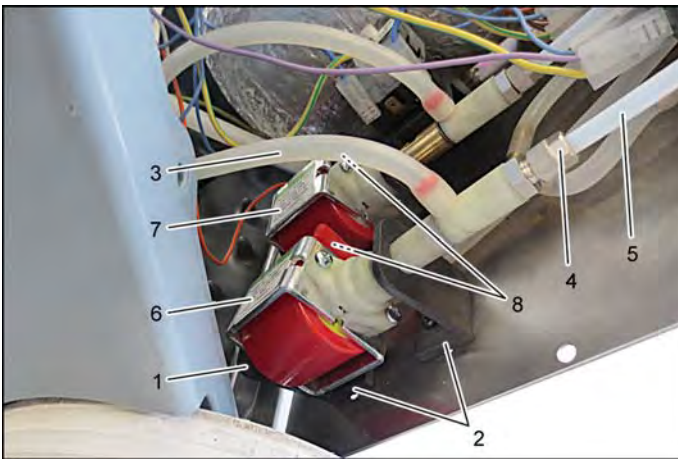


- 1 Screws
- 2 Carrier

- ➔ Unscrew the screws.
- ➔ Unplug the protective conductor cable.
- ➔ Open the carrier.

ADWP Uninstall / install water pump

- ABGL Uninstall / install appliance cover on the left side
- ADAT Open / close carrier



- 1 Hose water pump in the back
- 2 Rubber bearing
- 3 Hose water pump at the top
- 4 Nut
- 5 Hose
- 6 Water pump
- 7 Boiler pump
- 8 Electric connectors

- ➔ Separate the electric connectors.
- ➔ Remove the hose of the water pump in the back.
- ➔ Remove the water pump from the rubber bearing at the back.
- ➔ Remove the hose of the water pump at the top.
- ➔ Loosen nut and pull off the hose.
- ➔ Remove the water pump from the rubber bearing at the front.

ADKP Uninstall / install boiler pump

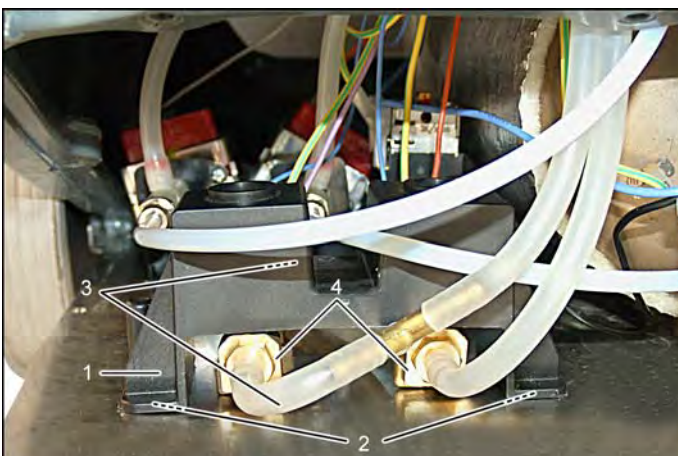
- ABGL Uninstall / install appliance cover on the left side
- ADAT Open / close carrier

The procedure conforms to the task:

- ADWP Uninstall / install water pump

ADMA Uninstall / install solenoid valve

- ABGL Uninstall / install appliance cover on the left side
- ADAT Open / close carrier

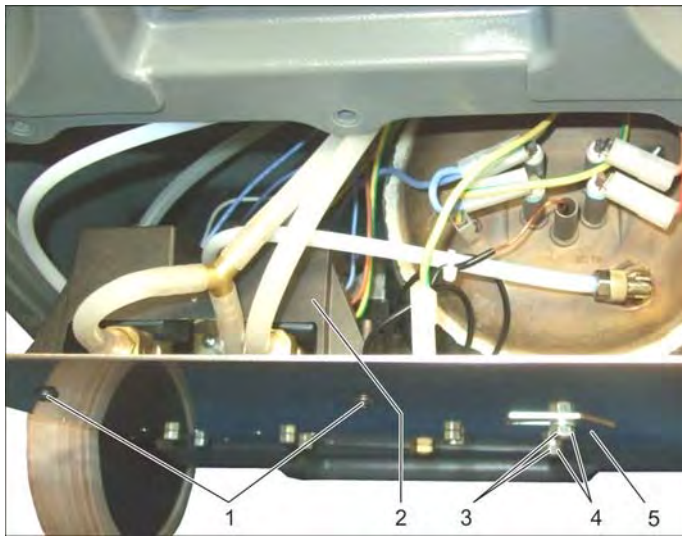


- 1 Holder solenoid valves
- 2 Screws
- 3 Hose
- 4 Solenoid valve

- ➔ Unscrew the screws.
- ➔ Remove the holder for the solenoid valves.
- ➔ Disconnect the connectors.
- ➔ Pull the hose off at the front and back.
- ➔ Remove solenoid valves.

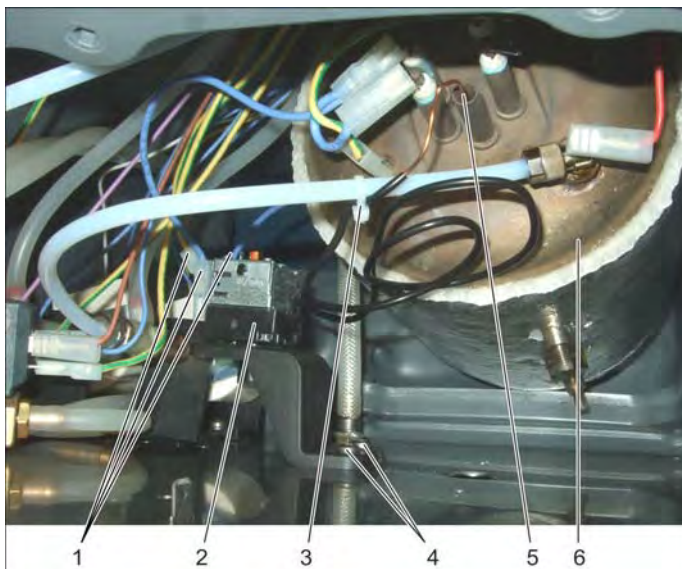
ADTW Uninstall / install water shortage thermostat

- ABGL Uninstall / install appliance cover on the left side
- ADAT Open / close carrier



- 1 Screws
- 2 Holder solenoid valves
- 3 Covers
- 4 Nuts
- 5 Covering plate

- ➔ Unscrew the screws.
- ➔ Remove the holder for the solenoid valves.
- ➔ Put the solenoid valves to the side.
- ➔ Remove covers.
- ➔ Loosen the mounting nuts.
- ➔ Remove the covering plate.



- 1 Electric socket plug connections
- 2 Low-water thermostat
- 3 Cable tie
- 4 Screw connections
- 5 Probe thermostat water shortage
- 6 Steam boiler

- ➔ Lift the steam boiler.
- ➔ Disconnect screw connections.
- ➔ Separate the electric connectors.
- ➔ Remove the cable ties.
- ➔ Pull the probe of the water shortage thermostat out of the steam boiler.
- ➔ Remove the thermostat water shortage.

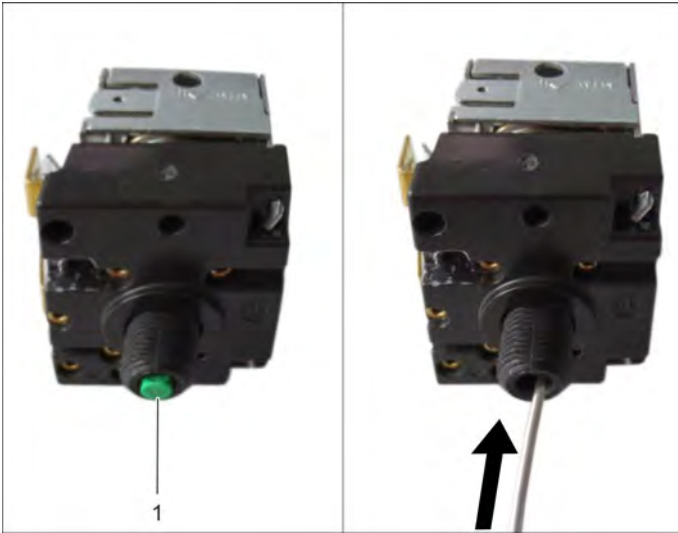


- 1 Low-water thermostat
- 2 Bracket
- 3 Nut
- 4 Cover cap

- ➔ Remove the cover cap.
- ➔ Loosen the nut.
- ➔ Remove support.

Installation information

Insert the probe thermostat water shortage all the way to the stop.



1 Reset button

Installation information

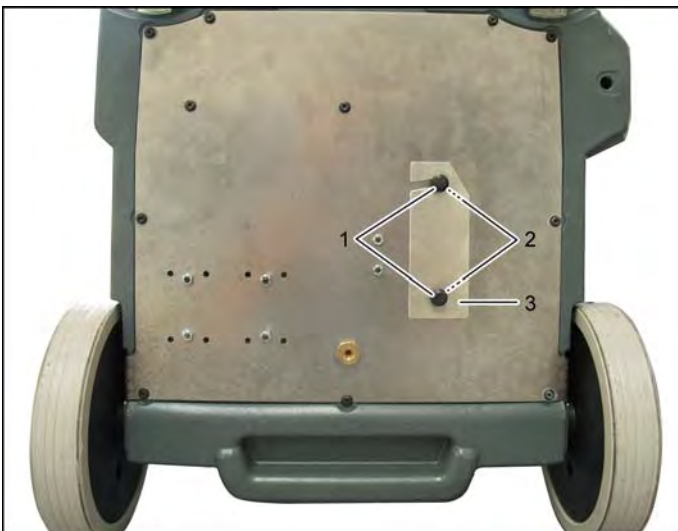
Push in the reset button in order to activate the thermostat water shortage.

ADTX Activating the reset button thermostat water shortage

Up to the works numbers indicated, proceed as described in the service group in order to reset the reset button.

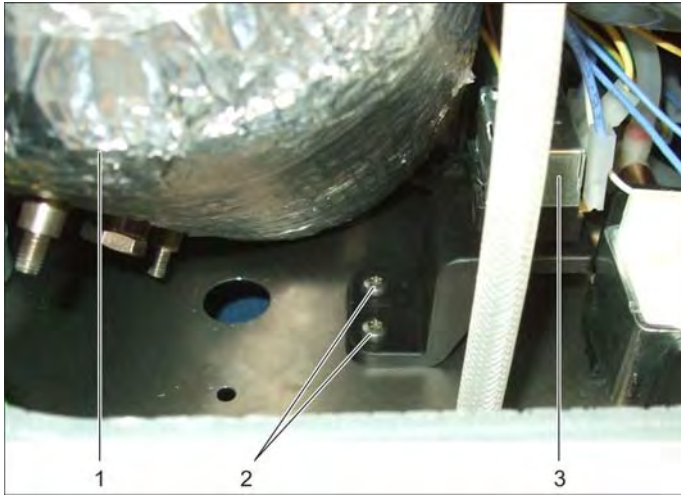
Appliance number	Serial number
1.092-000.0	10256
1.092-002.0	10050
1.092-003.0	10000
1.092-010.0	10270
1.092-012.0	10049
1.092-013.0	10000
1.092-014.0	10000

■ *ABGH Uninstall / install appliance cover in the back*



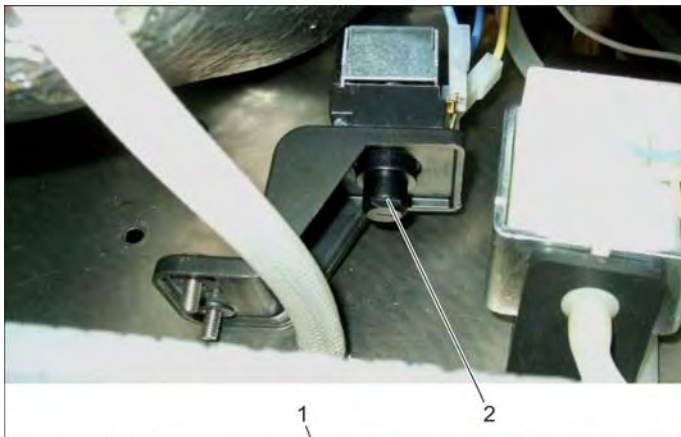
- 1 Covers
- 2 Nuts
- 3 Covering plate

- ➔ Remove covers.
- ➔ Loosen the mounting nuts.
- ➔ Remove the covering plate.



- 1 Steam boiler
- 2 Screw connections
- 3 Low-water thermostat

- ➔ Lift the steam boiler.
- ➔ Disconnect screw connections.
- ➔ Detach the thermostat water shortage.



- 1 Reset button
- 2 Cover cap

- ➔ Remove the cover cap.
- ➔ Push in the reset button in order to activate the thermostat water shortage.



ADTX Activating the reset button thermostat water shortage

The accessibility of the reset button was improved, and the cover plate given an extra bore hole.

Starting from the works numbers indicated, proceed as described in the service group in order to reset the reset button.

Appliance number	Serial number
1.092-000.0	10257
1.092-002.0	10051
1.092-003.0	10001
1.092-010.0	10271
1.092-012.0	10050
1.092-013.0	10000
1.092-014.0	10000

1 Stopper

→ Remove the plug.

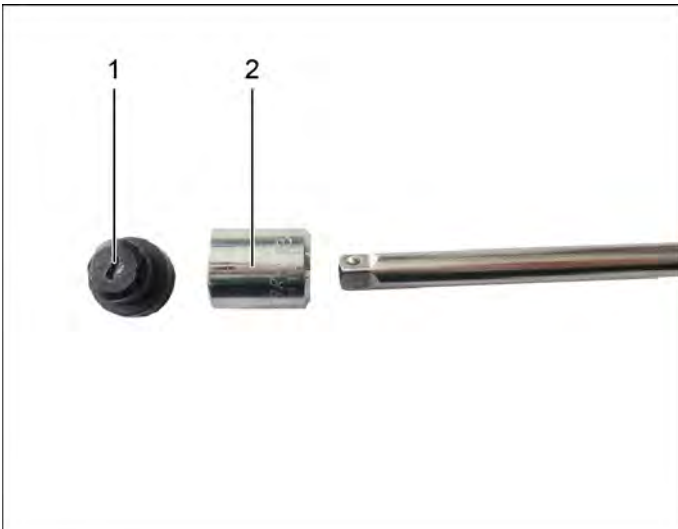


1 Cover cap

2 Wrench socket 1/2" 13mm

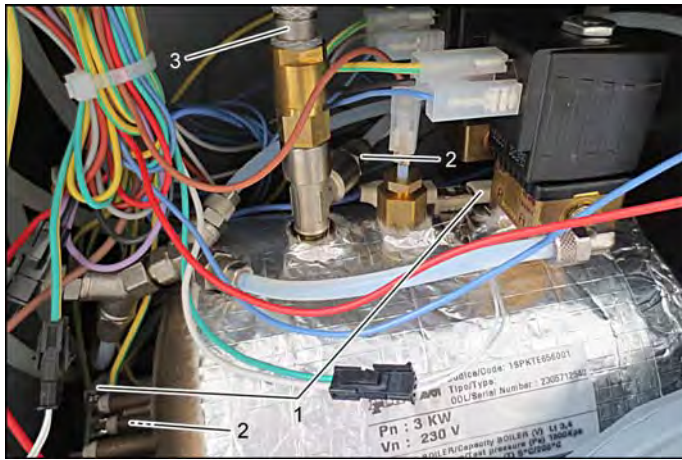
→ Unscrew cover cap with wrench socket.

→ Push in the reset button in order to activate the thermostat water shortage.



ADDK Uninstall / install steam boiler

- *ABGL Uninstall / install appliance cover on the left side*
- *ADDD Uninstall / install pressure valves steam boiler*
- *ADSO Uninstall / install probe water level*
- *ADAT Open / close carrier*



- 1 Electric connectors
- 2 Nuts
- 3 Hose clip

- ➔ Separate the electric connectors.
- ➔ Loosen the nuts.
- ➔ Loosen the hose clip.



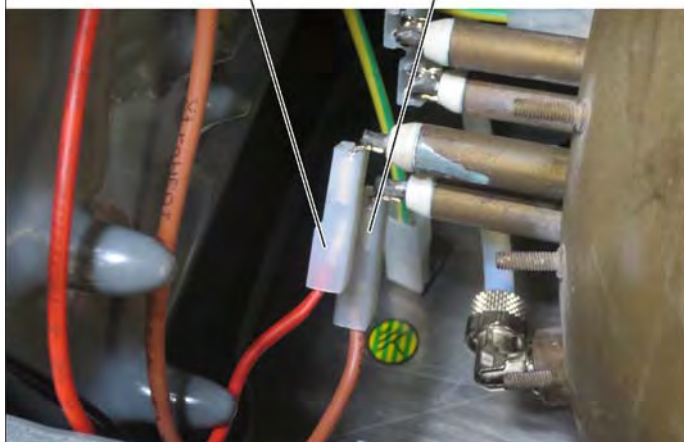
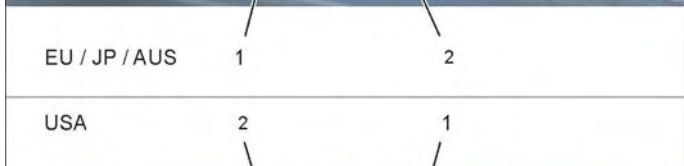
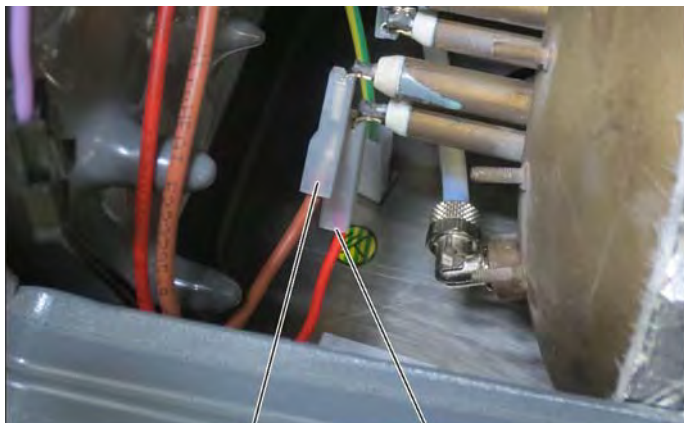
- 1 Covers
- 2 Nuts
- 3 Covering plate

- ➔ Remove covers.
- ➔ Loosen the mounting nuts.
- ➔ Remove steam boiler.

- 1 brown
- 2 red

Note

- ➔ When connecting the steam boiler, observe the various country variants.
- ➔ Measure the connections by means of a clamp meter.



EU

Line colour	Line cross section (mm ²)	Heating capacity (W)	Current consumption (A)
Brown	1.5	2000	9
Red	1	1000	4

Japan

Line colour	Line cross section (mm ²)	Heating capacity (W)	Current consumption (A)
Brown	1.5	1600	8
Red	1	1200	6

USA

Line colour	Line cross section (mm ²)	Heating capacity (W)	Current consumption (A)
Brown	1.5	1200	10
Red	1	400	3

AUS

Line colour	Line cross section (mm ²)	Heating capacity (W)	Current consumption (A)
Brown	1.5	1200	5
Red	1	1000	4

050 Maintenance and inspection

Descaling steam boiler

⚠ WARNING

Prior to all work on the appliance, switch off the appliance and pull the power plug.

Allow the device to cool down prior to performing any service tasks.

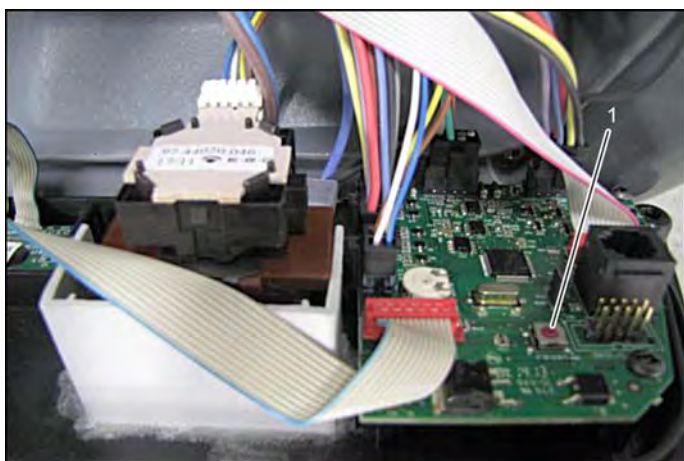
Relieve the high pressure system of all pressure prior to all work on the appliance and the accessories.

Wear protective clothing (gloves, goggles, apron).

Note

When handling descalers, the specific safety information must be observed.

Resetting the service indicator



Parts of the system



All components used for the descaling process must be acid-resistant.

Required components:

Descaling set	2.840-035.0
Lime-dissolving acid RM 101	6.295-398.0
Drain screw	6.304-182.0
Loctite 620	6.284-001.0
Locking paint	6.282-014.0
Covers	6.368-403.0
Superglue Drei Bond	6.869-007.0

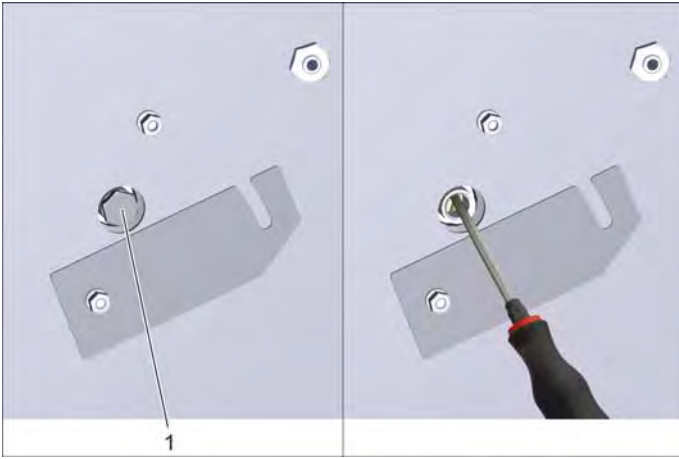
1 Reset button

- Insert the appliance plug into the mains socket.
- Switch the rotary switch into the "0/OFF" position.
- Remove the waste water container.
- Remove the fresh water container.
- Switch handwheel in position "Apply hot water".
- Switch rotary switch in position "Operating mode: Steam/hot water/cold water/suction operation".
- The current software version is shown on the display.
- Switch handwheel to position operating mode: "cold water mode".
- The message "Service mode activated" appears on the display.
- Depressurize the appliance via the steam switch.
- Unscrew the screws on the control panel.
- Remove the control panel.
- Press the Reset switch.
- Reinstall the operating panel.
- The service lamp must be out.

- Remove detergent container.
- Remove steam suction pipe.
- *ABGL Uninstall / install appliance cover on the left side*
- *ADSO Uninstall / install probe water level*

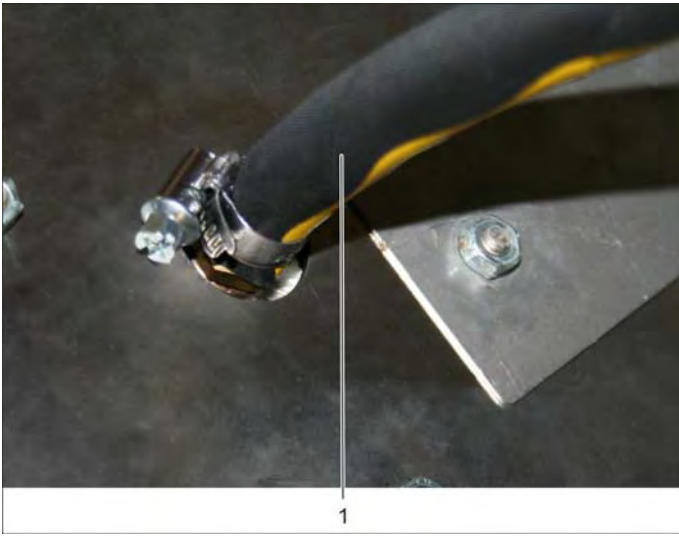
1 Covers 2 Nuts 3 Covering plate

- Remove covers.
- Loosen the nuts.
- Swivel the cover plate to the side.



1 Drain screw

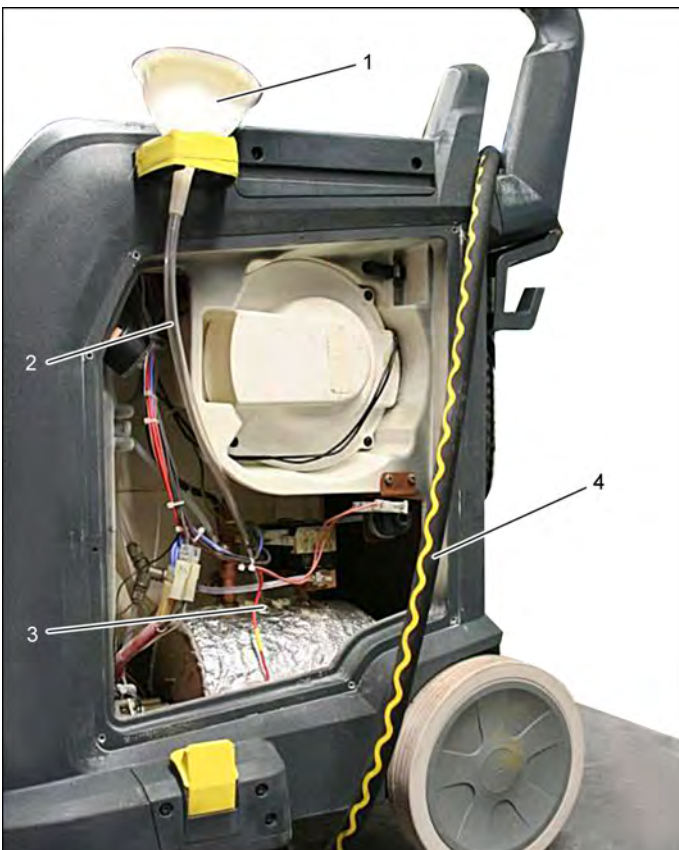
- ➔ Place on a suitable work table.
- ➔ Lay the appliance onto the push handle.
- ➔ Loosen the drain screw.
- ➔ Pierce the complete drilled hole by means of a suitable tool and remove lime deposits.



1 Drain hose

- ➔ Attach drain hose.
- ➔ Set up the appliance.
- ➔ Drain the remaining water from the steam boiler via the drain hose.

Descaling process



- 1 Funnel
- 2 Fill hose
- 3 Probe inlet
- 4 Drain hose

- ➔ Insert the fill hose into the probe inlet.
- ➔ Take the drain hose to the top.
- ➔ Fill descaler (RM 101, undiluted) into the steam boiler via the funnel.
- ➔ Do not fill the descaler into the steam boiler too fast.

⚠ WARNING

The descaler can heavily foam upon filling it in and thus cause damage.

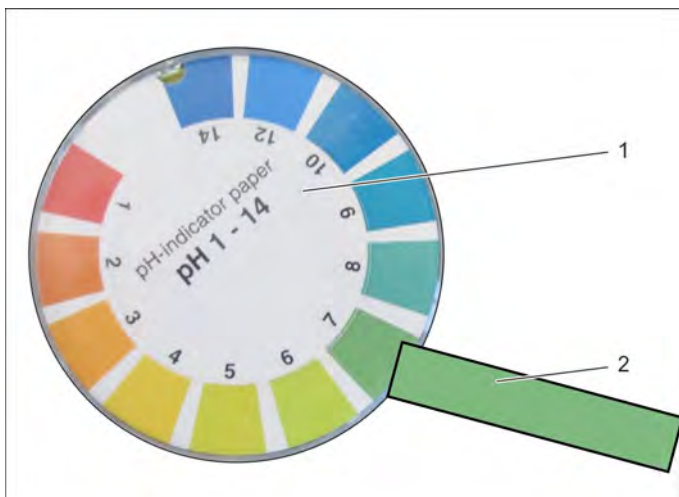
- ➔ The descaler must be filled in the steam boiler in 0.3 l steps with approx. 2 minute breaks in between.
- ➔ All together 2 litres of descaler must be filled into the steam boiler so that the heating is completely covered with the descaler.
- ➔ Allow the descaler to react for at least 30 minutes.

Descaling set	2.840-035.0
Lime-dissolving acid RM 101	6.295-398.0

Disassembly

- Drain the descaler into the provided catch pan via the drain hose.
- Completely fill the steam boiler with water and rinse it 2 to 3 times.
- No residue of the descaler must remain in the steam boiler.
- Lay the appliance onto the push handle.
- Remove the drain hose.
- Screw in a new drain plug.
- Seal with Loctite 620.
- Apply new locking paint using a paintbrush.
- Screw on the cover plate.
- Attach new covers by means of superglue Drei Bond.
- Set up the appliance and fill the steam boiler with approx. 1.5 litres of water via the proper inlet.
- Remove the funnel with the hose.
- Screw in new probe and seal with Loctite 620.
- Connect probe.

Neutralise and dispose of descaler (RM 101)



- 1 Overview pH-values
- 2 Indicator paper

Note

In order to achieve an environmentally friendly and economical disposal of the descaling water it must be neutralised in advance. It is prohibited to pour this descaler into public sewers before that. Neutralisation and disposal are therefore performed on site.

- Slightly predilute the descaler in the catch pan.
- Dip a strip of the pH indicator paper into the prediluted descaler and determine the pH-value (red discoloration = undiluted descaler)
- A neutralizing agent (soda) must be added to the descaler until a pH-value of approx. 7 is reached.
- Neutralised descaler can be disposed of via the public sewer system.

060 Error diagnosis

Note

If no progress is achieved during heating (display), check the reset button on the thermostat water shortage and press it if necessary.

SGV	8/5	6/5	8/5 *GB	6/5 *GB	8/5 *AU
Heating time (minutes)	7.0	6.5	8.0	7.0	10
Press the reset button after xx minutes	10		10		13

070 Peculiarities/ others

The service group does not contain any peculiarities.

AF Service group control unit

010 Safety information

⚠ WARNING

Prior to all work on the appliance, switch off the appliance and pull the power plug.

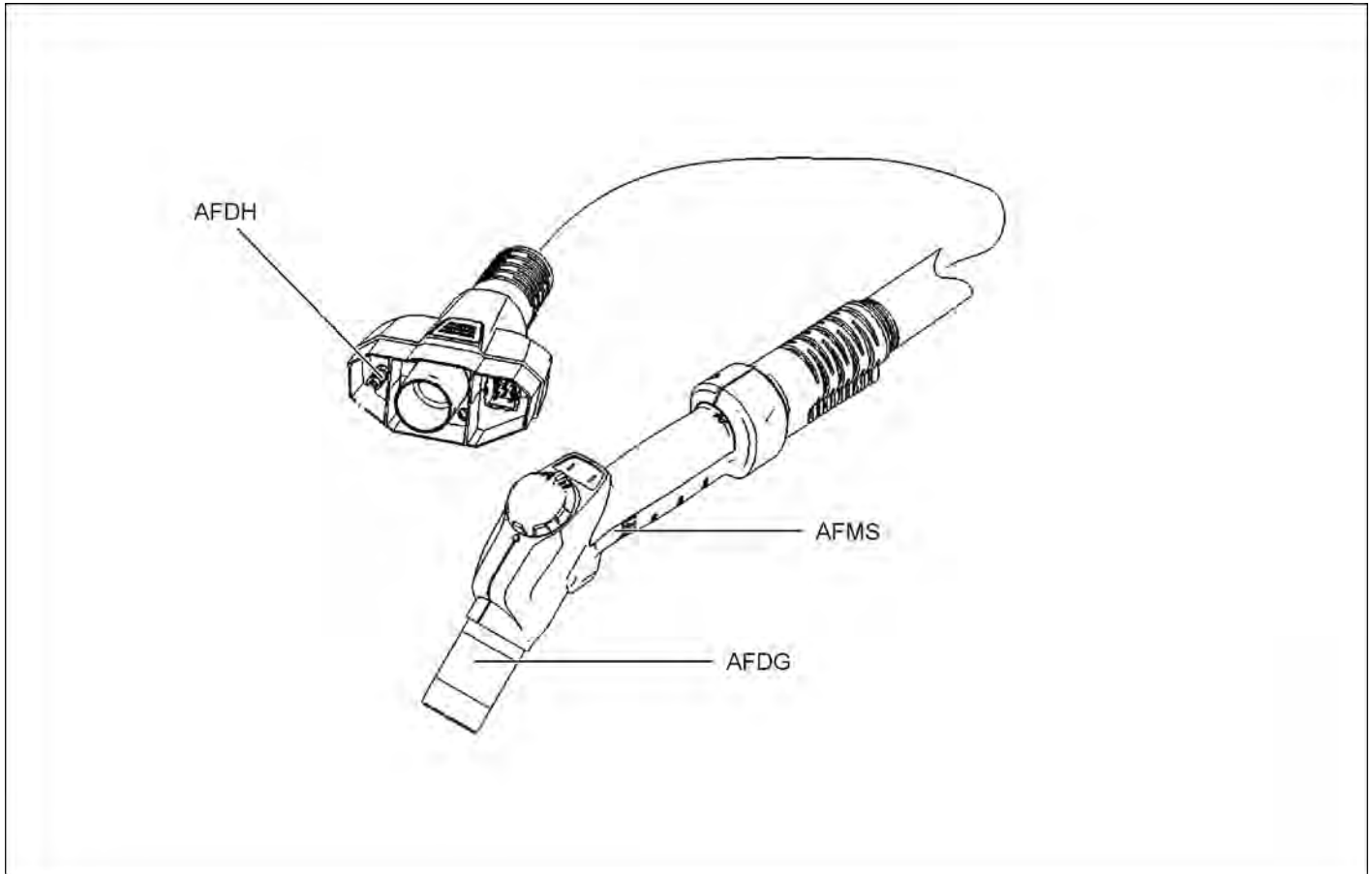
Allow the appliance to cool down prior to performing service tasks.

Relieve the high pressure system of all pressure prior to all work on the appliance and the accessories.

⚠ CAUTION

Risk of damage by electrostatic discharge (ESD)! Take suitable measures for discharging electrostatic charge pri-

020 Overview



AFDH Uninstall / install steam nozzle in the back

AFDG Uninstall / install steam nozzle in the front

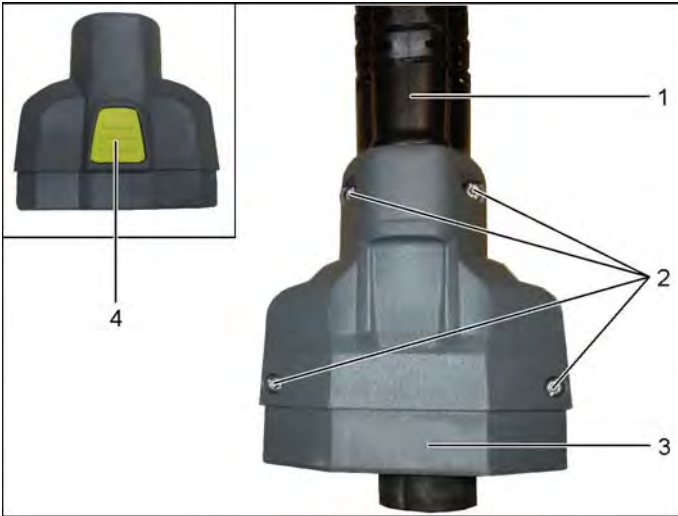
AFMS Uninstall /install microswitch

030 Function

The service group does not contain any peculiarities.

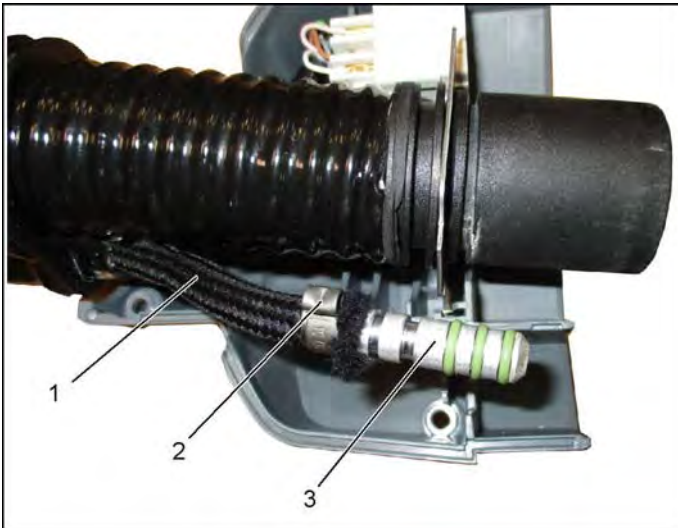
040 Service activities

AFDH Uninstall / install steam nozzle in the back



- 1 Hose
- 2 Screws
- 3 Casing
- 4 Housing top

- Unscrew the screws.
- Turn over casing.
- Remove the top part of the casing.

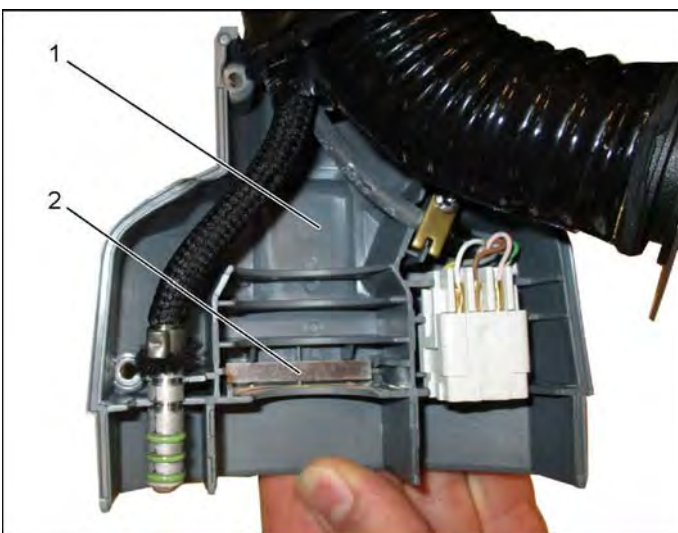


- 1 Steam hose
- 2 Hose clamp
- 3 Steam nozzle

- Remove hose clamp.
The hose clamp is destroyed upon removal.
- Pull off the steam nozzle.
- Replace the steam nozzle.

Installation information

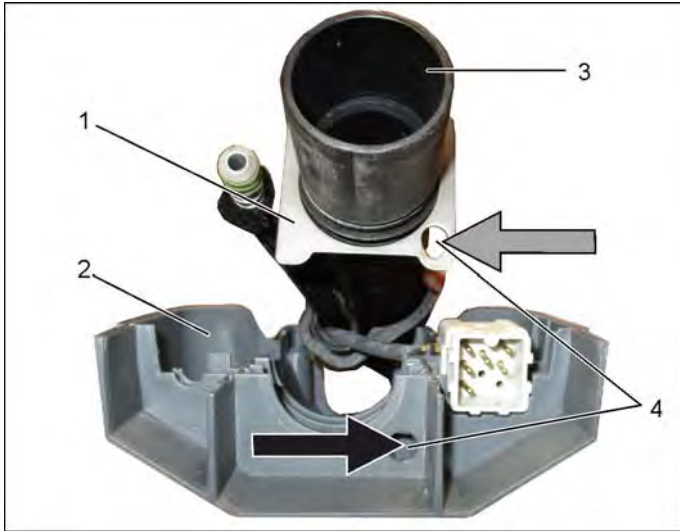
Use special tool for fastening the hose clamp.
Vice-grip wrench for ear clamps.



- 1 Casing
- 2 Plate

Installation information

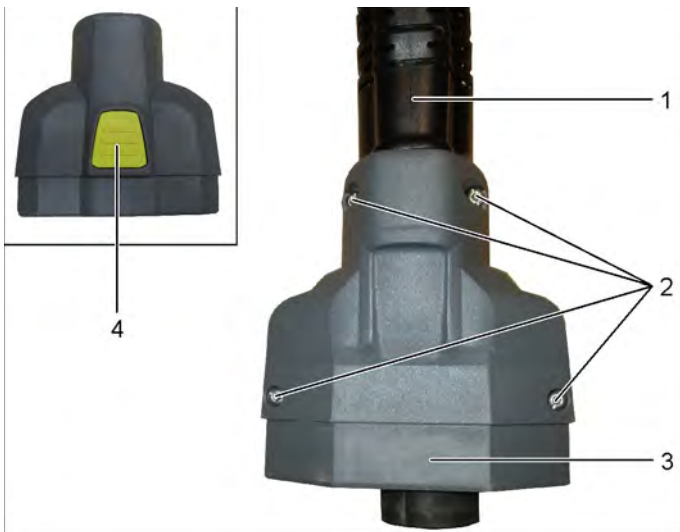
The plate must be in the recess.



- 1 Plate
- 2 Casing
- 3 Suction hose
- 4 Holes

Installation information

- ➔ Place the plate into the second groove of the suction hose.
- ➔ The drilled hole in the plate and the drilled hole in the casing must be on the same side.



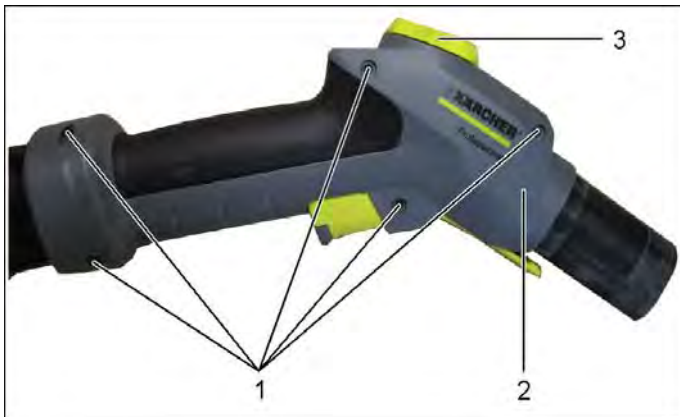
- 1 Hose
- 2 Screws
- 3 Casing
- 4 Housing top

- ➔ Fit the casing top onto the casing.
- ➔ Bolt casing together.

NOTE

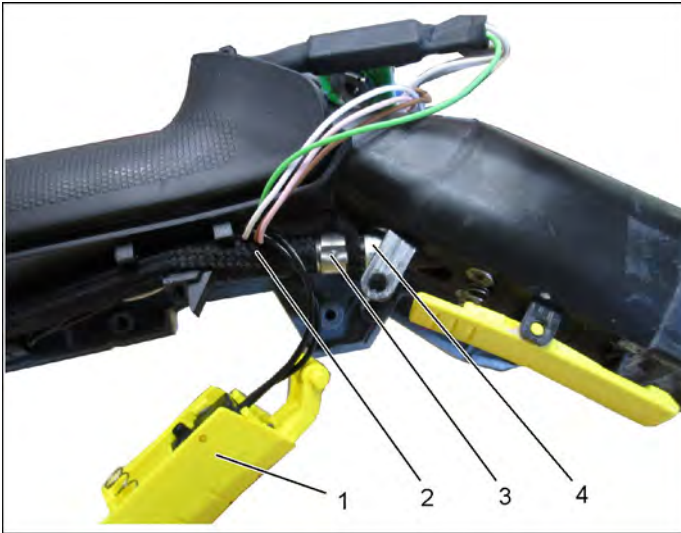
Perform a function test.
Operation of the yellow knob casing top.

AFDG Uninstall / install steam nozzle in the front



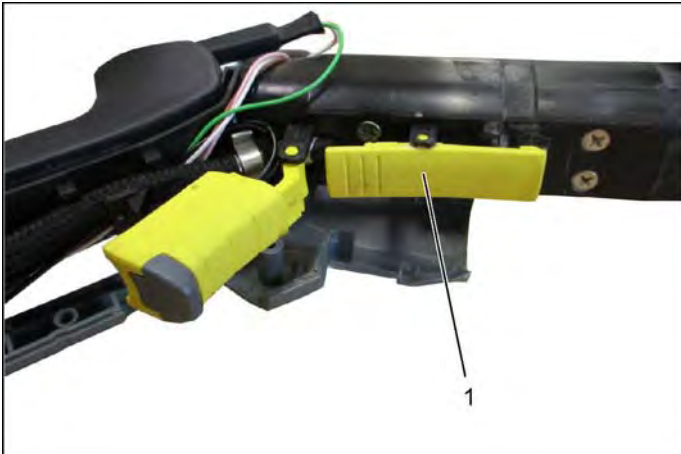
- 1 Screws
- 2 Casing
- 3 Hand wheel

- ➔ Unscrew the screws.
- ➔ Remove the housing.
- ➔ Remove the handwheel.



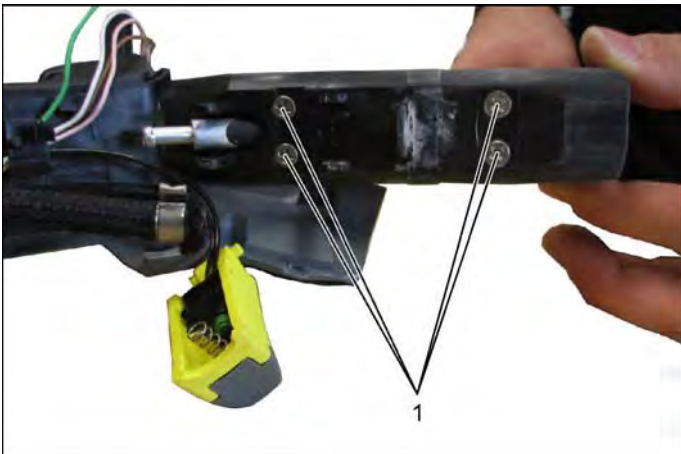
- 1 Trigger lock
- 2 Steam hose
- 3 Hose clamp
- 4 Steam nozzle

- ➔ Remove the trigger lock.
- ➔ Remove hose clamp.
The hose clamp is destroyed upon removal.
- ➔ Pull the steam hose off the steam nozzle.



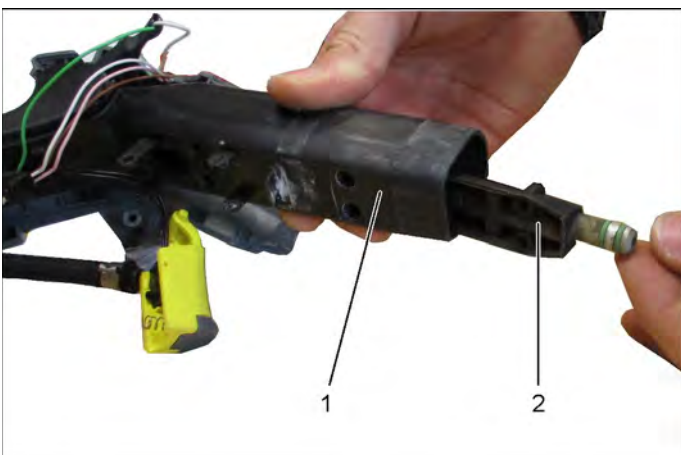
- 1 Lock

- ➔ Remove the lock.



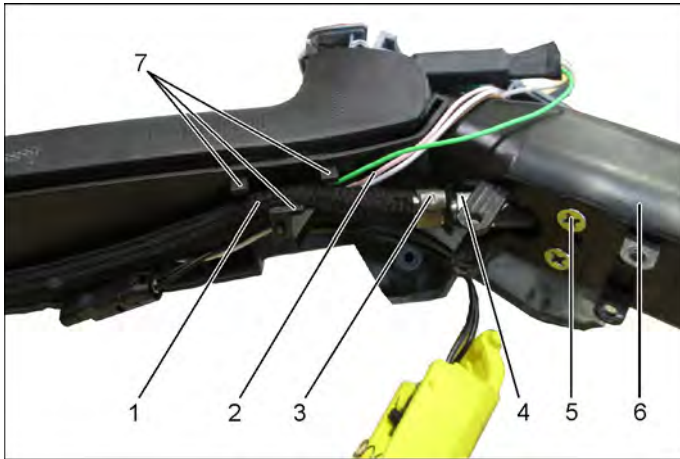
- 1 Screws

- ➔ Unscrew the screws.



- 1 Casing
- 2 Steam nozzle

- ➔ Remove the steam nozzle from the casing towards the front.
- ➔ Replace the steam nozzle.

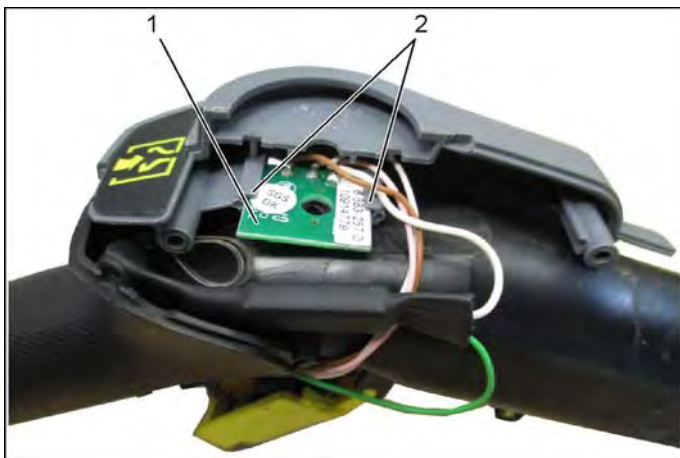


- 1 Steam hose
- 2 Wiring
- 3 Hose clamp
- 4 Steam nozzle
- 5 Screws
- 6 Casing
- 7 Intake

- ➔ Slide the steam nozzle into the casing from the front.
- ➔ Screw down the steam nozzles using screws.
- ➔ Slide the hose clamp onto the hose.
- ➔ Slide the steam hose onto the steam nozzle and secure it by means of a hose clamp.
Use special tools.
- ➔ Push the steam hose into the intake.

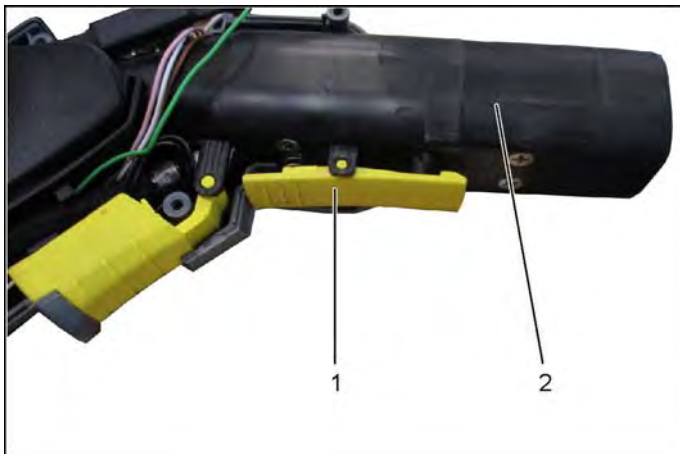
Installation information

Route the wiring above the steam hose.



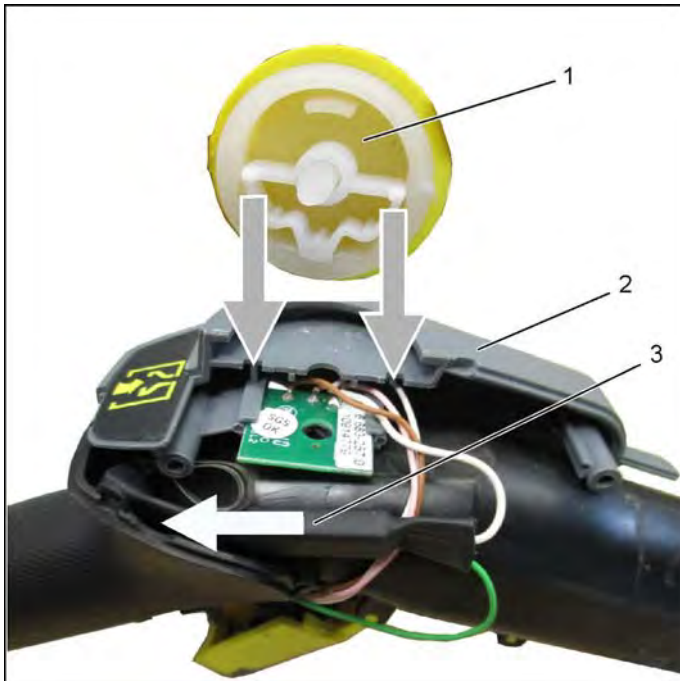
- 1 Printed board
- 2 Guidance

- ➔ Slide the printed circuit board into the guide.



- 1 Lock
- 2 Casing

- ➔ Attach lock.

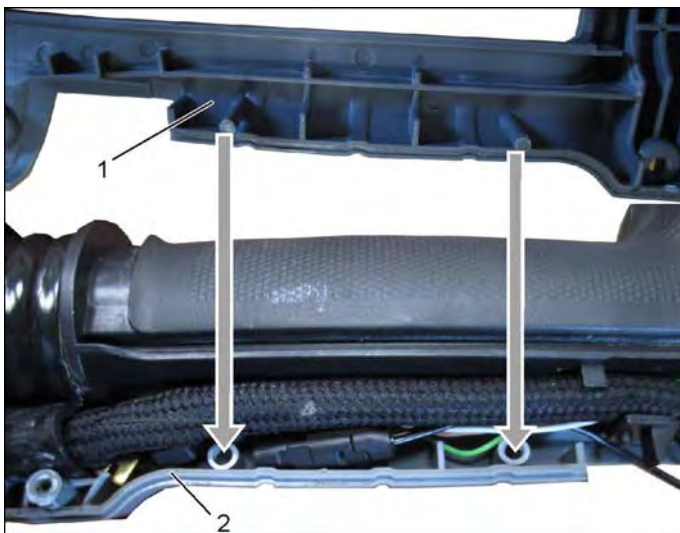


- 1 Hand wheel
- 2 Casing
- 3 Electric connectors

- ➔ Push the electrical socket plug connection as far as possible into the casing.
- ➔ Insert the handwheel.

NOTE

Mind the installation position.



- 1 Casing shell Up
- 2 Casing shell Down

- ➔ Place the upper casing part onto the lower casing part and screw them together.

NOTE

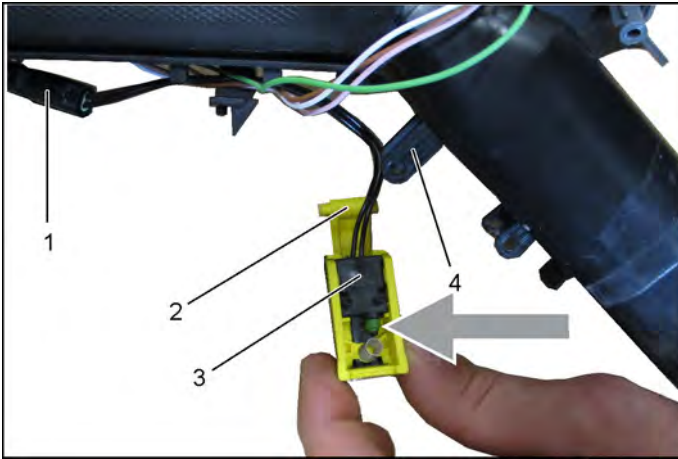
Mind the installation position.
Lay lines free of kinks.
Do not crush the lines.

AFMS Uninstall /install microswitch



- 1 Screws
- 2 Casing

- ➔ Unscrew the screws.
- ➔ Remove the housing.

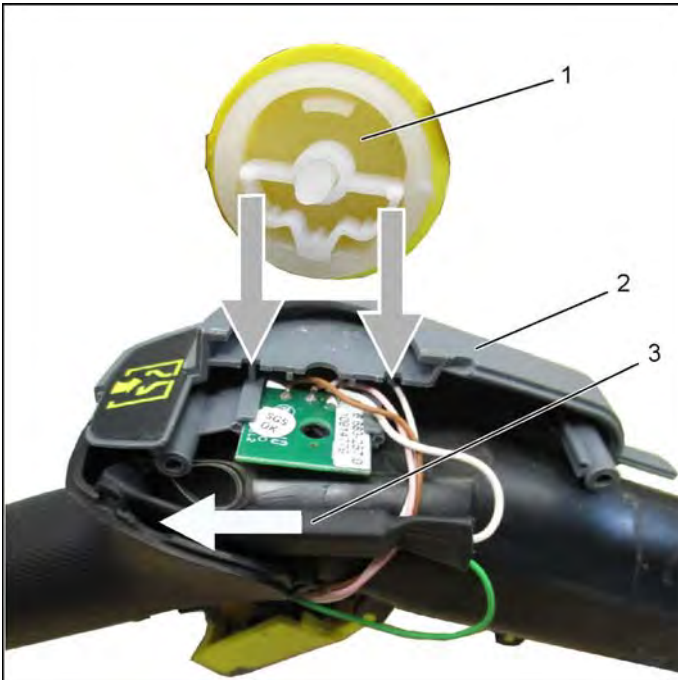


- 1 Electric connectors
- 2 Trigger lock
- 3 Microswitch
- 4 Intake

- ➔ Separate the electric connectors.
- ➔ Remove the trigger lock from the intake.
- ➔ Replace microswitch.

NOTE

Mind the installation position.

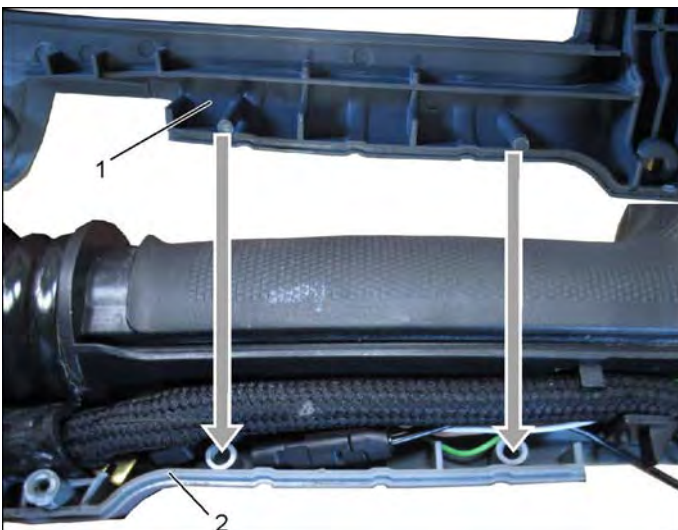


- 1 Hand wheel
- 2 Casing
- 3 Electric connectors

- ➔ Push the electrical socket plug connection as far as possible into the casing.
- ➔ Insert the handwheel.

NOTE

Mind the installation position.



- 1 Casing shell Up
- 2 Casing shell Down

- ➔ Place the upper casing part onto the lower casing part and screw them together.

NOTE

Mind the installation position.
Lay lines free of kinks.
Do not crush the lines.

050 Maintenance and inspection

Service group does not contain any maintenance and inspection points.

060 Error diagnosis

The service group does not contain any error diagnosis.

070 Peculiarities/ others

The service group does not contain any peculiarities.

010 Safety information

⚠ **WARNING**

Prior to all work on the appliance, switch off the appliance and pull the power plug.

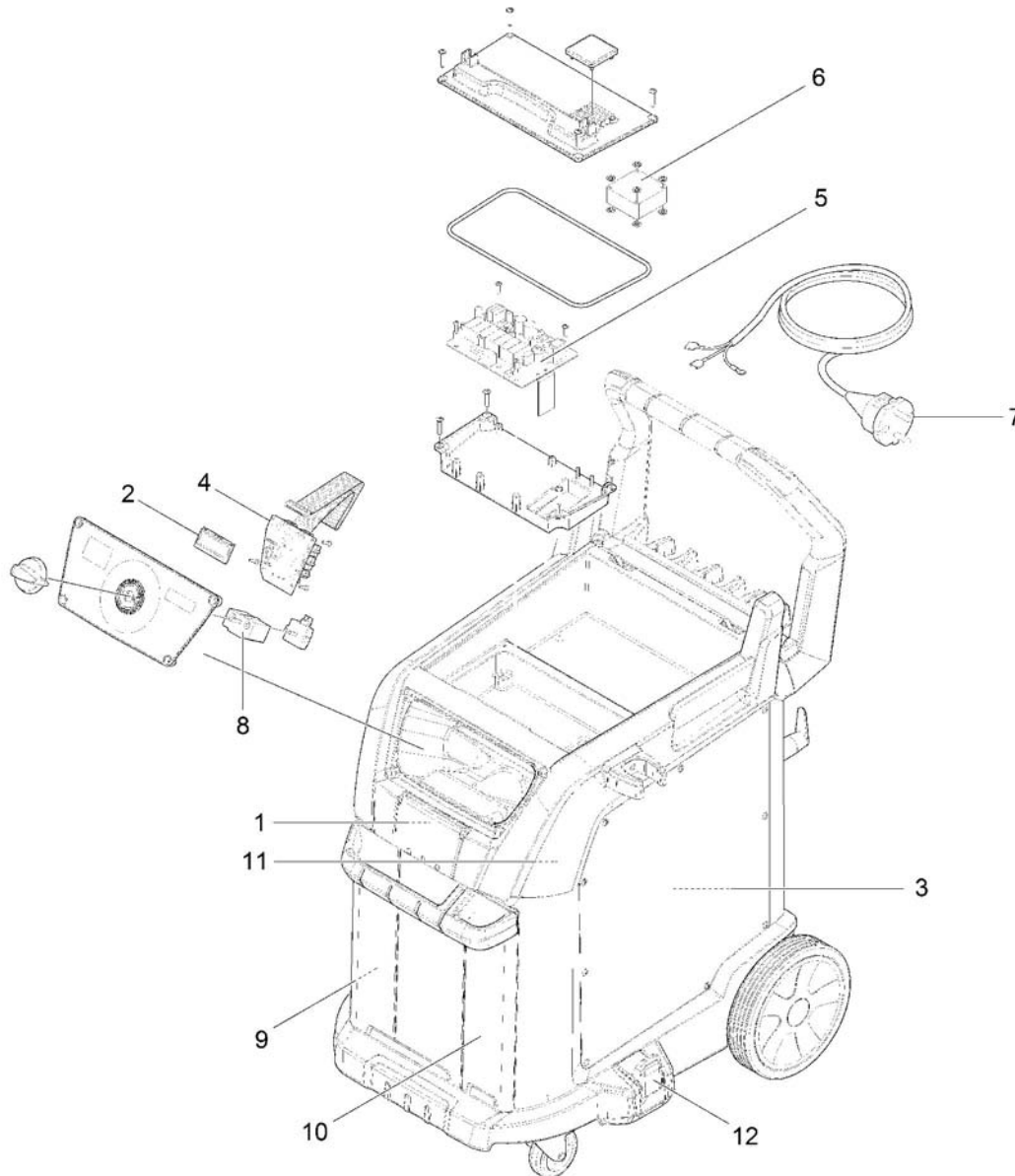
Allow the appliance to cool down prior to performing service tasks.

Relieve the high pressure system of all pressure prior to all work on the appliance and the accessories.

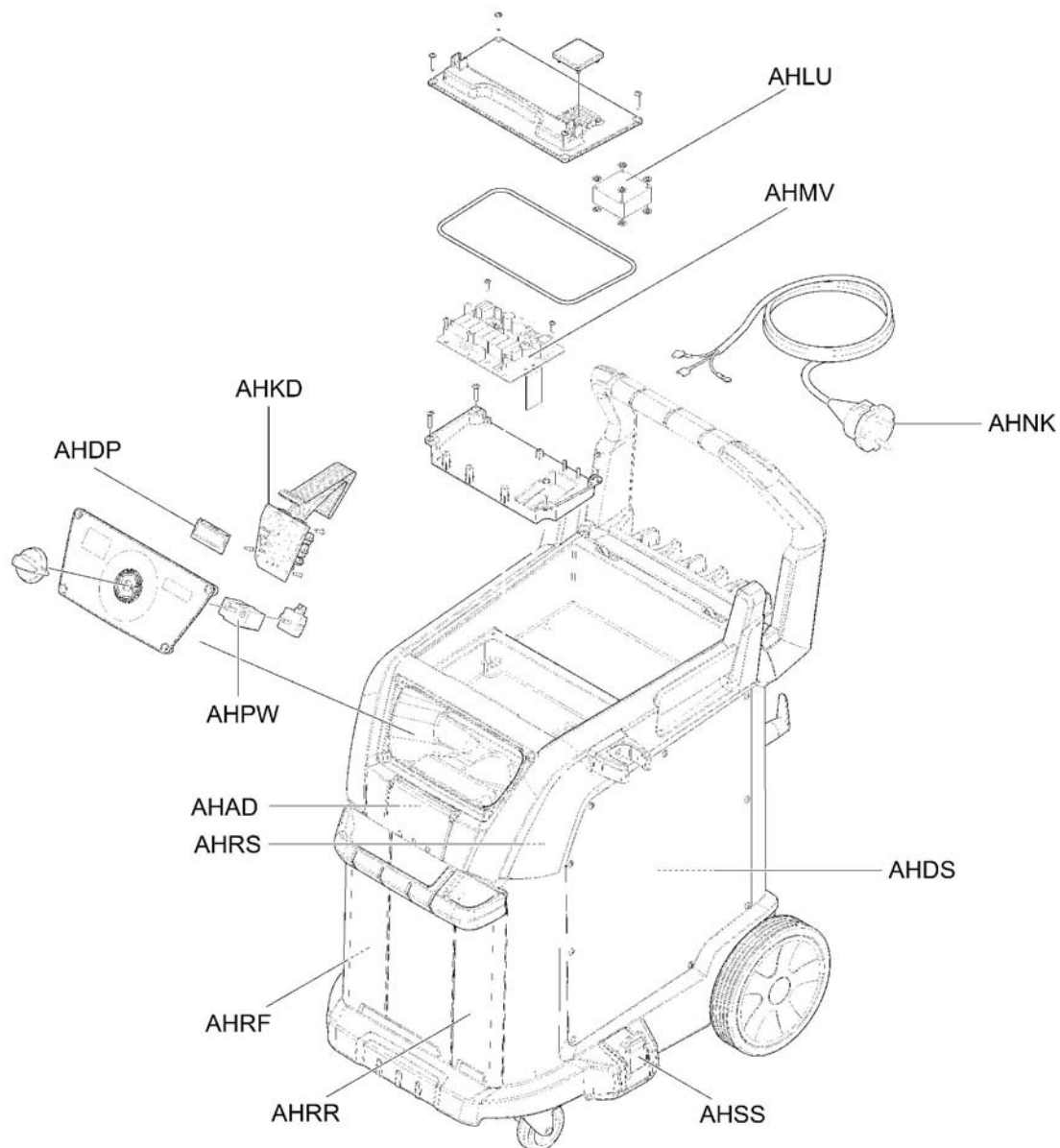
⚠ **CAUTION**

Risk of damage by electrostatic discharge (ESD)! Take suitable measures for discharging electrostatic charge pri-

020 Overview



- 1 Connection control electrics manual nozzle
- 2 Display
- 3 Pressure switch
- 4 Head CPU
- 5 Performance electronics
- 6 Fan
- 7 Power cord
- 8 Program selection switch
- 9 Reed contact fresh water tank
- 10 Reed contact detergent tank
- 11 Reed contact waste water tank
- 12 Switch rinsing system



AHAD Uninstall / install connection control electronics manual nozzle

AHDP Uninstall / install display

AHKD Uninstall / install control electronics (μ C-card)

AHMV Uninstall / install power electronics (power card)

AHLU Uninstall / install fan

AHNK Uninstall / install power cable

AHPW Uninstall / install programme selector switch

AHDS Uninstall / install pressure switch

AHRF Uninstall/install reed contact fresh water tank

AHRR Uninstall / install reed contact detergent tank

AHRS Uninstall / install reed contact waste water tank

AHSS Uninstall / install switch for rinsing system

030 Function

The modules of the appliance electronics are connected to one another via a data cable (bus cable).

The display shows information about filling levels, appliance functions and errors detected by the control.

The pressure switch switches off the machine when the working pressure is exceeded. Do not change the setting.

The fan runs continuously after switching on the appliance and cools the modules of the appliance electronics.

The different operating modes can be selected via the programme selector switch.

The reed contacts register the filling level in the relevant container.

040 Service activities

AHAD Uninstall / install connection control electronics manual nozzle



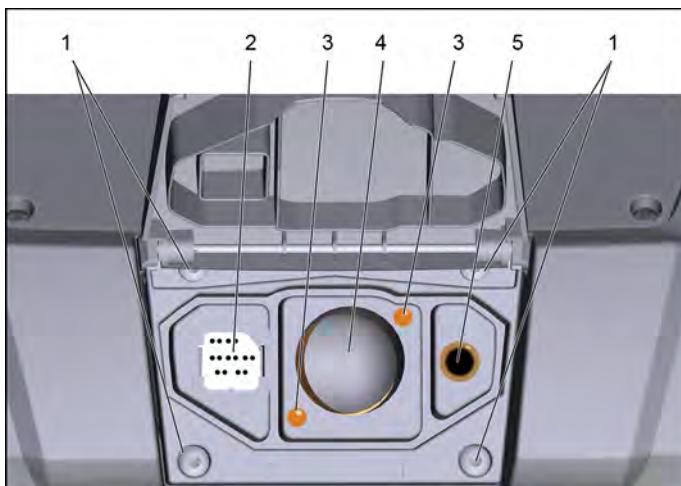
■ *ABGL Uninstall / install appliance cover on the left side*

- 1 Screws
- 2 Operating panel
- 3 Electric connectors

- Unscrew the screws.
- Remove the control panel.
- Separate the electric connectors.

Installation information

Ensure the correct seating of the seal during installation.



- 1 Screws
- 2 Connection control electronics manual nozzle

- Unscrew the screws.
- Unclip connection control electronics manual nozzle.
- Remove connection control electronics manual nozzle.

Installation information

Check plug and lines for correct seating upon installation.

AHDP Uninstall / install display



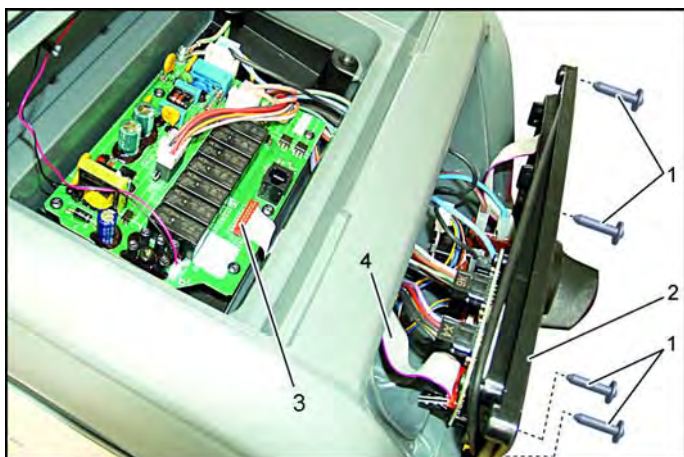
- 1 Display
- 2 Electric connectors

- Unscrew the screws on the control panel.
- Remove the control panel.
- Separate the electric connectors.
- Unclip the display.
- Remove display.

Installation information

Ensure the correct seating of the seal during installation.

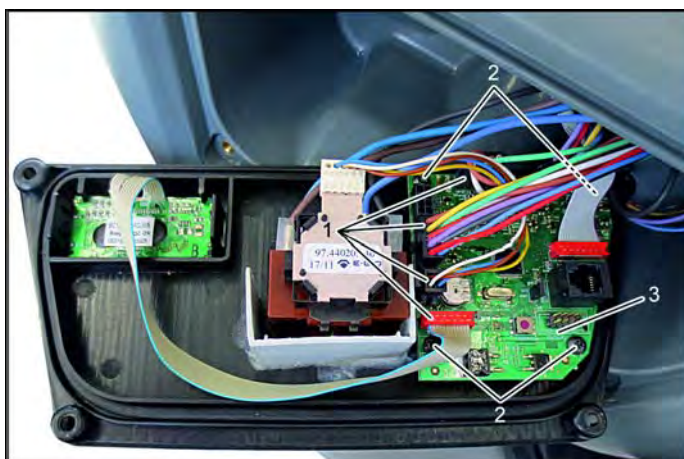
AHKD Uninstall / install control electronics (μC-card)



- Open the cover of the power electronics.
The procedure conforms to the task:
- *ABDA Uninstall / install seal of the power electronics cover*

- 1 Screws
- 2 Operating field
- 3 Electric connectors
- 4 Data cable

- ➔ Unscrew the screws
- ➔ Separate the electric connectors.
- ➔ Remove the control panel.



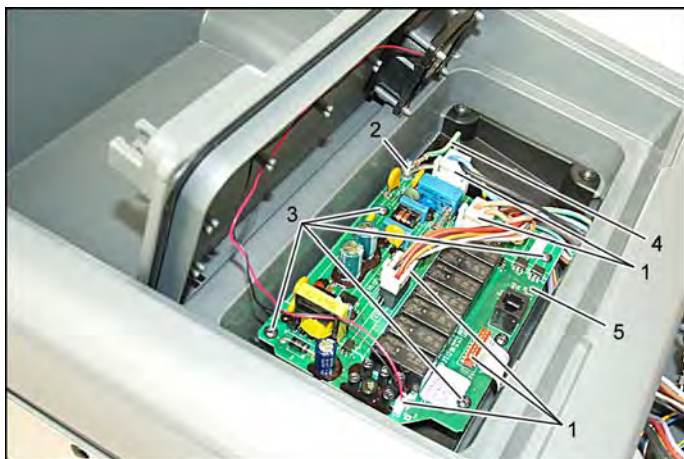
- 1 Electric connectors
- 2 Screws
- 3 Control electronics (μC-card)

- ➔ Separate the electric connectors.
- ➔ Unscrew the screws.
- ➔ Remove control electronics (μC-card).

Installation information

Ensure the correct seating of the seal during installation.

AHMV Uninstall / install power electronics (power card)

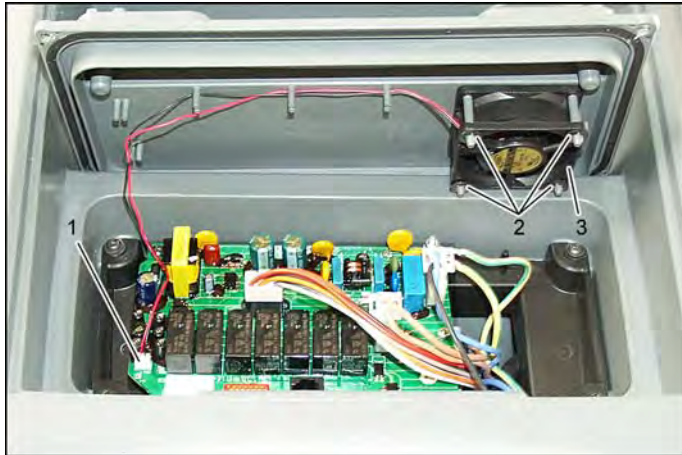


- Open the cover of the power electronics.
The procedure conforms to the task:
- *ABDA Uninstall / install seal of the power electronics cover*

- 1 Electric connectors
- 2 Nut
- 3 Screws
- 4 Protective conductor cable
- 5 Power card

- ➔ Separate the electric connectors.
- ➔ Loosen the nut.
- ➔ Remove protective conductor cable.
- ➔ Unscrew the screws.
- ➔ Remove power card.

AHLU Uninstall / install fan



- Open the cover of the power electronics.
The procedure conforms to the task:
- *ABDA Uninstall / install seal of the power electronics cover*

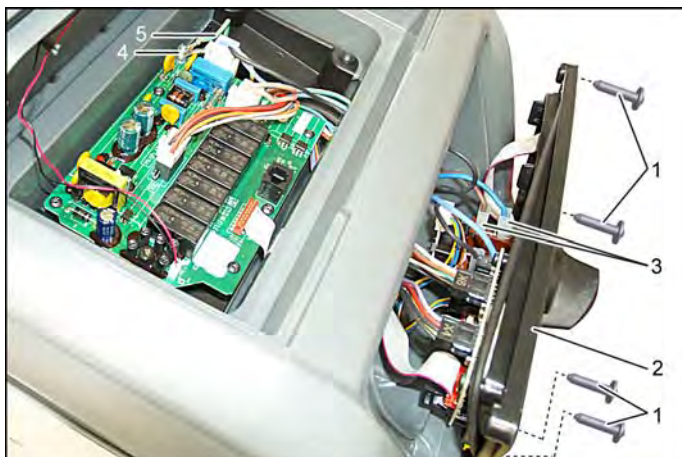
- 1 Electric connectors
- 2 Safety disc
- 3 Fan

- ➔ Separate the electric connectors.
- ➔ Remove the safety disc.
- ➔ Remove fan.

Note

Replace the locking washer in case of damage.

AHNK Uninstall / install power cable



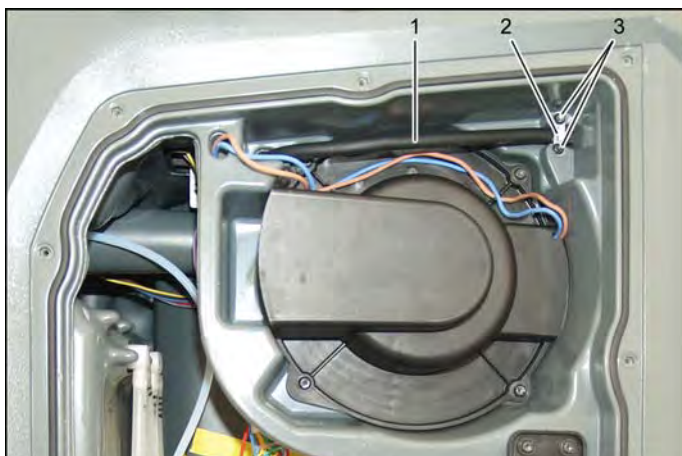
- Open the cover of the power electronics.
The procedure conforms to the task:
- *ABDA Uninstall / install seal of the power electronics cover*
- *ABGL Uninstall / install appliance cover on the left side*

- 1 Screws
- 2 Operating panel
- 3 Electric connectors
- 4 Nut
- 5 Protective conductor cable

- ➔ Unscrew the screws.
- ➔ Remove the control panel.
- ➔ Separate the electric connectors.
- ➔ Loosen the nut.
- ➔ Remove protective conductor cable.

Installation information

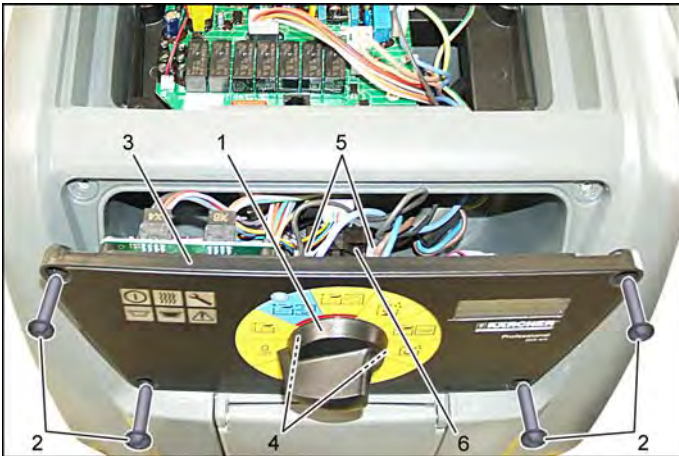
Ensure the correct seating of the seal during installation.



- 1 Power cord
- 2 Cord grip
- 3 Screws

- ➔ Unscrew the screws.
- ➔ Remove strain relief.
- ➔ Pull the mains cable out toward the back

AHPW Uninstall / install programme selector switch



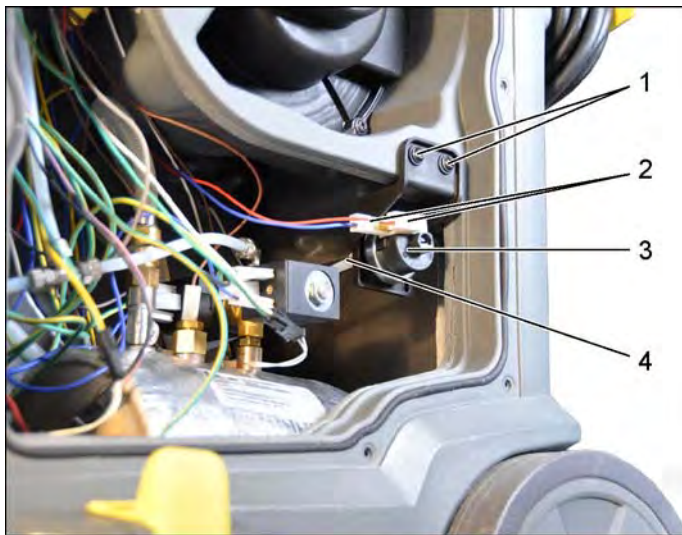
- 1 Knob
- 2 Screws
- 3 Operating panel
- 4 Screws
- 5 Electric connectors
- 6 Program selection switch

- Remove the knob.
- Unscrew the screws on the control panel.
- Remove the control panel.
- Unscrew the screws on the programme selector switch.
- Separate the electric connectors.
- Remove the programme selector switch.

Installation information

Ensure the correct seating of the seal during installation.

AHDS Uninstall / install pressure switch

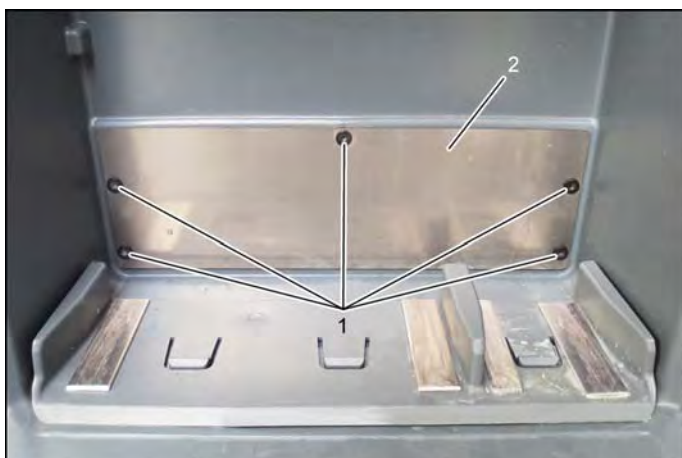


- *ABGL Uninstall / install appliance cover on the left side*

- 1 Screws
- 2 Electric connectors
- 3 Pressure switch
- 4 Nut

- Separate the electric connectors.
- Loosen the nut.
- Unscrew the screws.
- Remove the pressure switch.

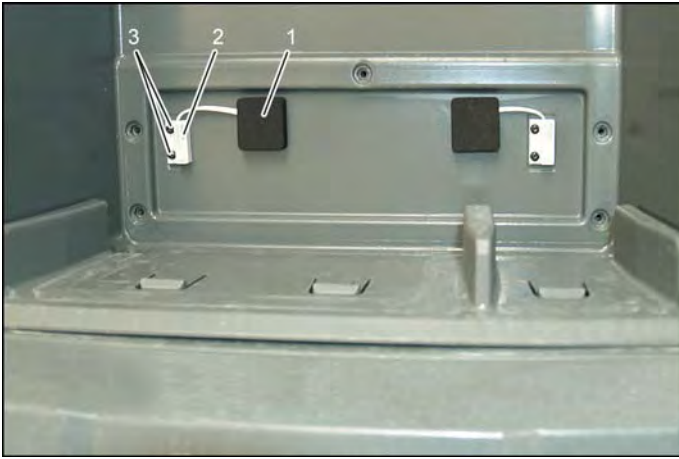
AHRF Uninstall/install reed contact fresh water tank



- *ABGL Uninstall / install appliance cover on the left side*

- 1 Screws
- 2 Cover

- Unscrew the screws.
- Remove cover.



- 1 Fleece
- 2 Reed contact fresh water tank
- 3 Screws

- ➔ Remove fleece.
- ➔ Unscrew the screws.

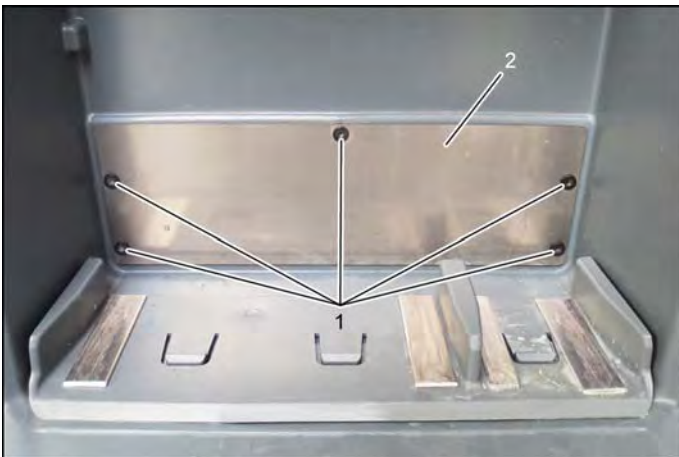


- 1 Electric connectors

- ➔ Separate the electric connectors.
- ➔ Remove reed contact.

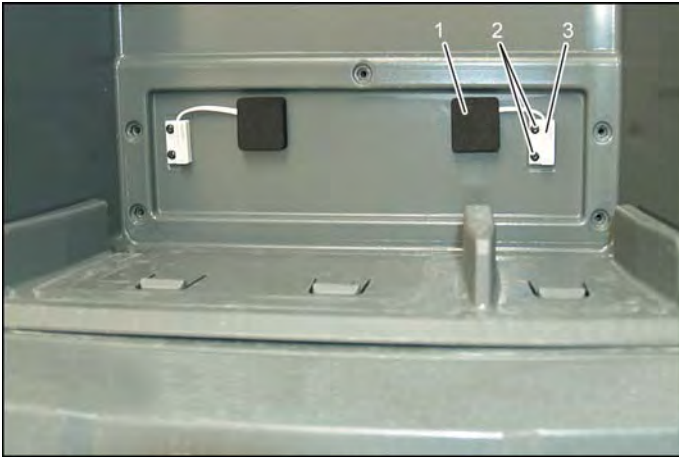
AHRR Uninstall / install reed contact detergent tank

- *ABGL Uninstall / install appliance cover on the left side*



- 1 Screws
- 2 Cover

- ➔ Unscrew the screws.
- ➔ Remove cover.



- 1 Fleece
- 2 Screws
- 3 Reed contact detergent tank

- ➔ Remove fleece.
- ➔ Unscrew the screws.

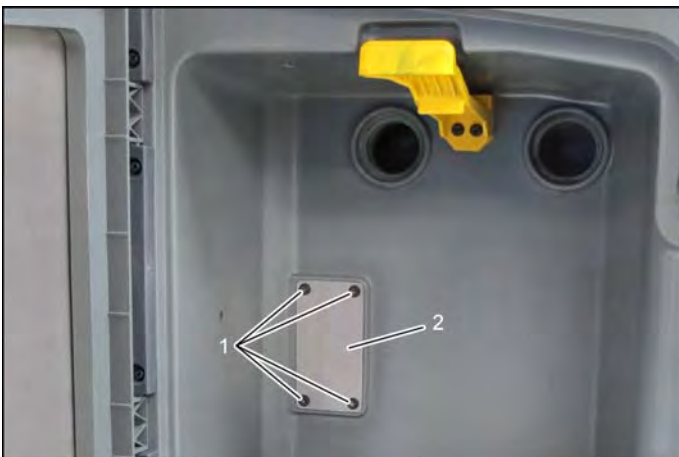


- 1 Electric connectors

- ➔ Separate the electric connectors.
- ➔ Remove reed contact.

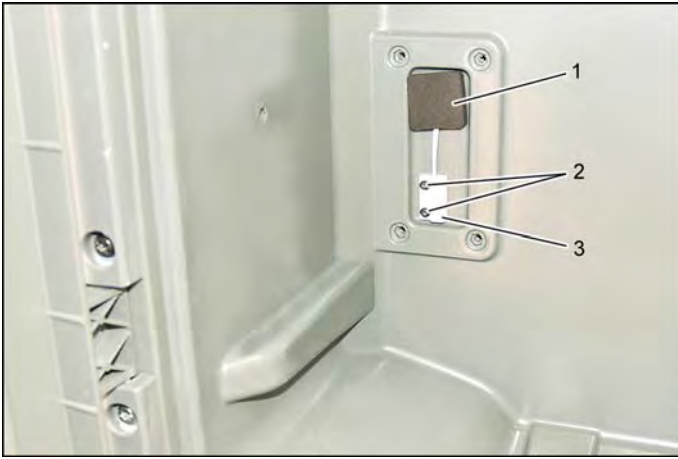
AHRS Uninstall / install reed contact waste water tank

- *ABGL Uninstall / install appliance cover on the left side*



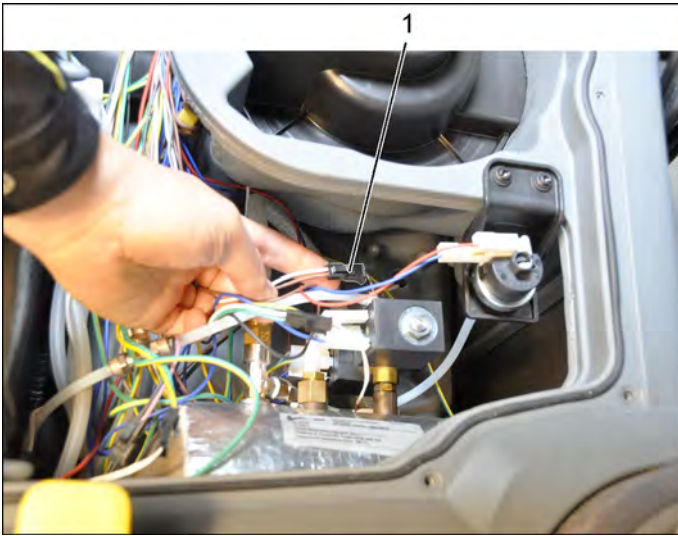
- 1 Screws
- 2 Cover

- ➔ Unscrew the screws.
- ➔ Remove cover.



- 1 Fleece
- 2 Screws
- 3 Reed contact waste water tank

- ➔ Remove fleece.
- ➔ Unscrew the screws.



- 1 Electric connectors

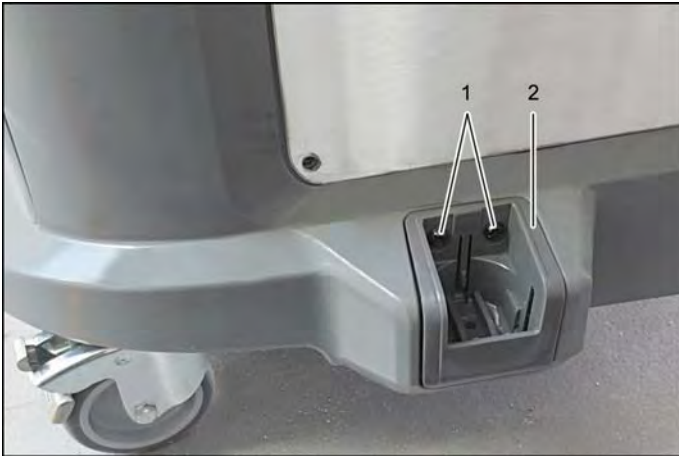
- ➔ Separate the electric connectors.
- ➔ Remove reed contact.

AHSS Uninstall / install switch for rinsing system

■ ABGL Uninstall / install appliance cover on the left side

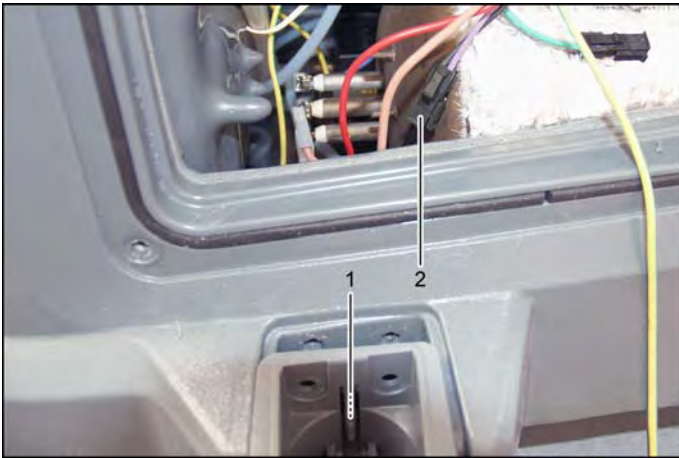
- 1 Screws
- 2 Support

- ➔ Remove cover.
- ➔ Unscrew the screws.
- ➔ Remove the holders.



- 1 Switch rinsing system
- 2 Electric connectors

- ➔ Unclip switch rinsing system.
- ➔ Separate the electric connectors.



050 Maintenance and inspection

Service group does not contain any maintenance and inspection points.

060 Error diagnosis

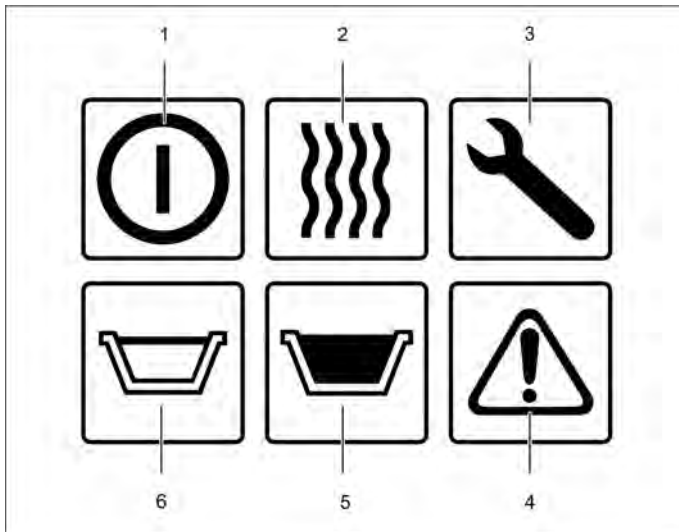
The service group does not contain any error diagnosis.

070 Peculiarities/ others

The service group does not contain any peculiarities.

Troubleshooting

All error messages are displayed by blinking/illuminated symbols and/or via the display.



- 1 Indicator lamp "Operational readiness" (green)
- 2 Indicator lamp "Heating on" (green)
- 3 Indicator lamp "Service" (yellow)
- 4 Indicator lamp "Fault" (red)
- 5 Indicator lamp "Wastewater container full" (red)
- 6 Indicator lamp "Fresh water container empty" (red)

Symbol	Meaning
X	Indicator light is blinking
O	Indicator light is on





Fault codes

Note

Further tests see:

Table of measurement values

Error codes	Display							Cause	Correction
E1	Service fault: E01			X			X	<ul style="list-style-type: none"> - Water shortage on the water level probe. - Probe for water level defective. <p>Note Up to 4th error message, the two LEDs will flash.</p>	<ul style="list-style-type: none"> ➔ Check the water level. ➔ Check the tank is seated correctly. ➔ Check the boiler pump. ➔ Check the water hoses. (Kink-free installation) <p>Note Further tests see: Table of measurement values</p>
		O		O			O	<p>Note Starting from the 5th error message, three LEDs light up constantly.</p>	<p>Remedy causes of fault, then actuate the reset button.</p> <ul style="list-style-type: none"> ■ <i>ADTX Activating the reset button thermostat water shortage</i> <p>Note Further tests see: Table of measurement values</p>
E3	Refill fresh water.	O			O				<ul style="list-style-type: none"> ➔ Check fresh water container for proper seating. ➔ Fill up fresh water reservoir. ➔ Check the float in the tank for mobility.
E4	Refill detergent.	O							<ul style="list-style-type: none"> ➔ Slide the detergent container all the way in to the stop. ➔ Refill detergent. ➔ Check the float in the tank for mobility.

Error codes	Display							Cause	Correction
E5	Empty wastewater.	O				O			<ul style="list-style-type: none"> → Insert the wastewater container properly and lock it. → Empty the wastewater reservoir. → Check the float in the tank for mobility.
E8	Filling procedure please wait	O							<p>Note</p> <ul style="list-style-type: none"> → Information only appears upon the initial filling.
E10	Select rinsing programme	O							<p>Note</p> <ul style="list-style-type: none"> → Information appears after operation with detergent. → No steam operation possible.
E11	Heating	O	X						<p>Note</p> <ul style="list-style-type: none"> → Information only appears upon the initial filling.
E12	Service fault: E12	O					O		<ul style="list-style-type: none"> → Check the connector plug "hand tool" on the device for proper seating. → The connector plug "hand tool" on the device must be completely dry.
E13	Service fault: E13	O					O		<ul style="list-style-type: none"> → Check the connector plug "hand tool" on the device for proper seating. → The connector plug "hand tool" on the device must be completely dry. → Actuate reset button µ-card.
E14	Service fault: E14	O		X					<p>Note</p> <ul style="list-style-type: none"> → Steam boiler should be descaled. <p>See chapter: <i>Descaling steam boiler</i></p>
E15	Service fault: E15	O		O					<p>Note</p> <ul style="list-style-type: none"> → Steam boiler must be descaled. <p>See chapter: <i>Descaling steam boiler</i></p>
E16	Service fault: 16	O		O			O		<ul style="list-style-type: none"> → Check fan for soiling or damage. → Check the connector. → Check plug contacts on the power electronics (power card). → Check ribbon cable that connects the power card with µ-card. If defective, exchange µ-card. <p>Note Further tests see: Table of measurement values</p>

Fault	Cause	Correction
Display on, pump without function	Performance electronics Check the fuse.	Replace defective fuse. Fuse 6.3A (slow-blow)

Table of measurement values

Error codes	Component	Connector	Measured between: Pin : Pin	Target value	Correction
E1	Probe water level Exchange thermostat probe.	X6	2 : GND		<ul style="list-style-type: none"> ➔ Check electric cable for water level probe for continuity. ➔ Check water level probe, and exchange if necessary. ➔ Check plug contact for power electronics to µc-card (ribbon cable). ➔ Reset fault by means of reset button. ➔ Replace µc-card.
E3	Reed contact fresh water tank	X2	6 : 3	0V (tank full/missing) 5V (tank empty)	<ul style="list-style-type: none"> ➔ Check wiring for continuity. ➔ Check the connector. ➔ Replace µc-card.
E4	Reed contact detergent tank	X2	6 : 2	0V (tank full) 5V (tank empty)	<ul style="list-style-type: none"> ➔ Check wiring for continuity. ➔ Check the connector. ➔ Replace µc-card.
E5	Reed contact waste water tank	X2	6 : 1	0V (tank empty) 5V (tank full/missing)	<ul style="list-style-type: none"> ➔ Check wiring for continuity. ➔ Check the connector. ➔ Replace µc-card.
E12	Handle	X4	7 : 8		<ul style="list-style-type: none"> ➔ Check wiring for continuity. ➔ Check the connector. ➔ Replace µc-card.
E13	Handle	X4	1 : 8	0-10 kΩ	<ul style="list-style-type: none"> ➔ Check wiring for continuity. ➔ Check the connector. ➔ Replace µc-card.
E16	Fan	X5	1 : 2	24V (+-5%)	<ul style="list-style-type: none"> ➔ Check fan, replace as necessary. ➔ Replace power electronics. ➔ Check plug contacts on the power electronics (power card).

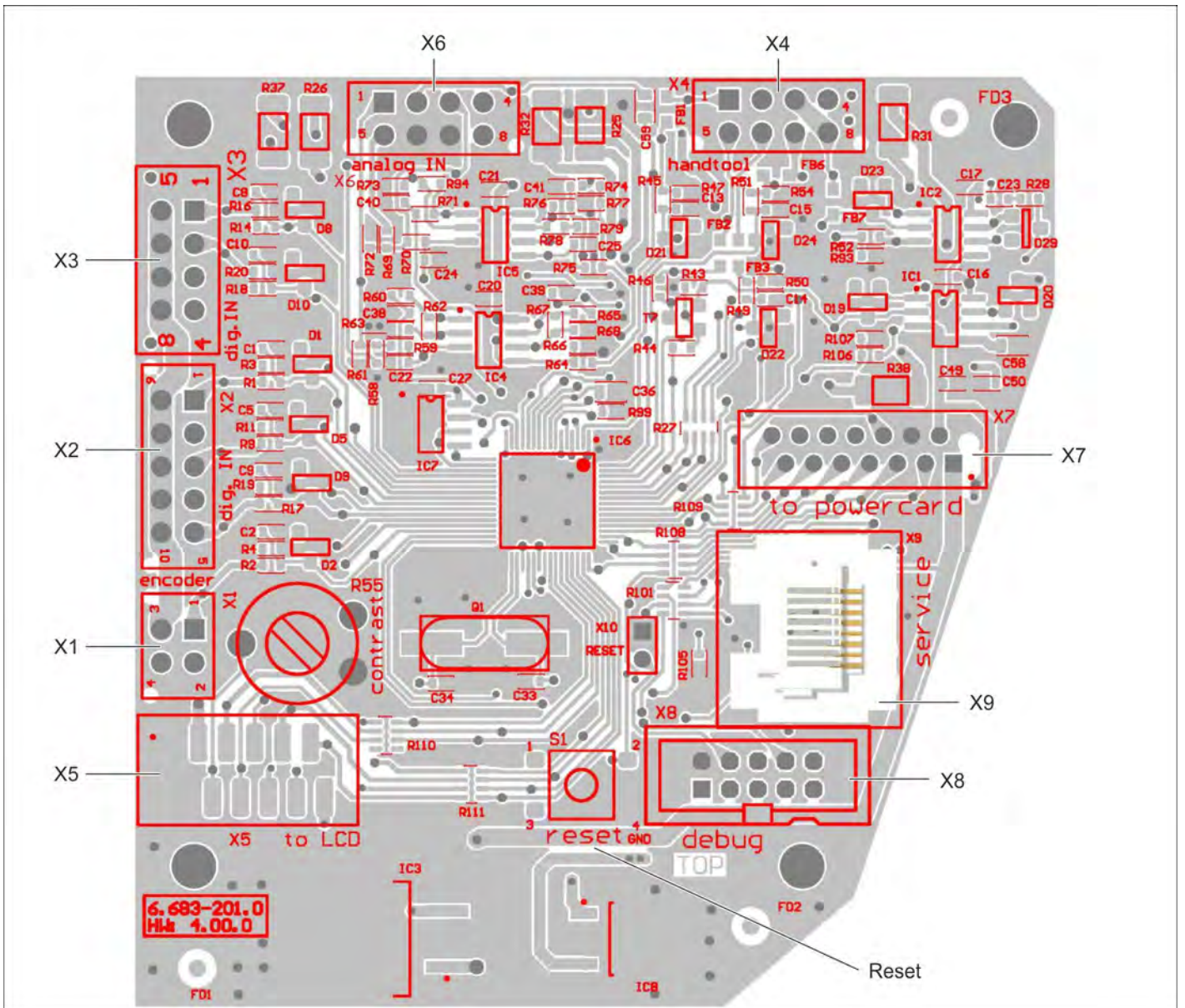
General troubleshooting for steam vacuum cleaners and steamers

Cause	Correction
Does not start.	<ul style="list-style-type: none"> ➔ Check mains / fuse for house connection. ➔ Check the mains connection cable for damages. ➔ Check On/Off switch. ➔ Check the suction turbine. ➔ Check / replace circuit board. ➔ Empty the container (wet vacuuming) ➔ Check socket / microswitch. ➔ Check / clean overflow protection electrodes. ➔ Fusing too low (under 16 amps).
No suction performance.	<ul style="list-style-type: none"> ➔ Accessories dirty. ➔ Suction container / waste water container full / defective. ➔ Check the suction turbine. ➔ Blower filter dirty. ➔ Dirt filter for fresh water dirty. ➔ Reed contacts for filling level closed / active.

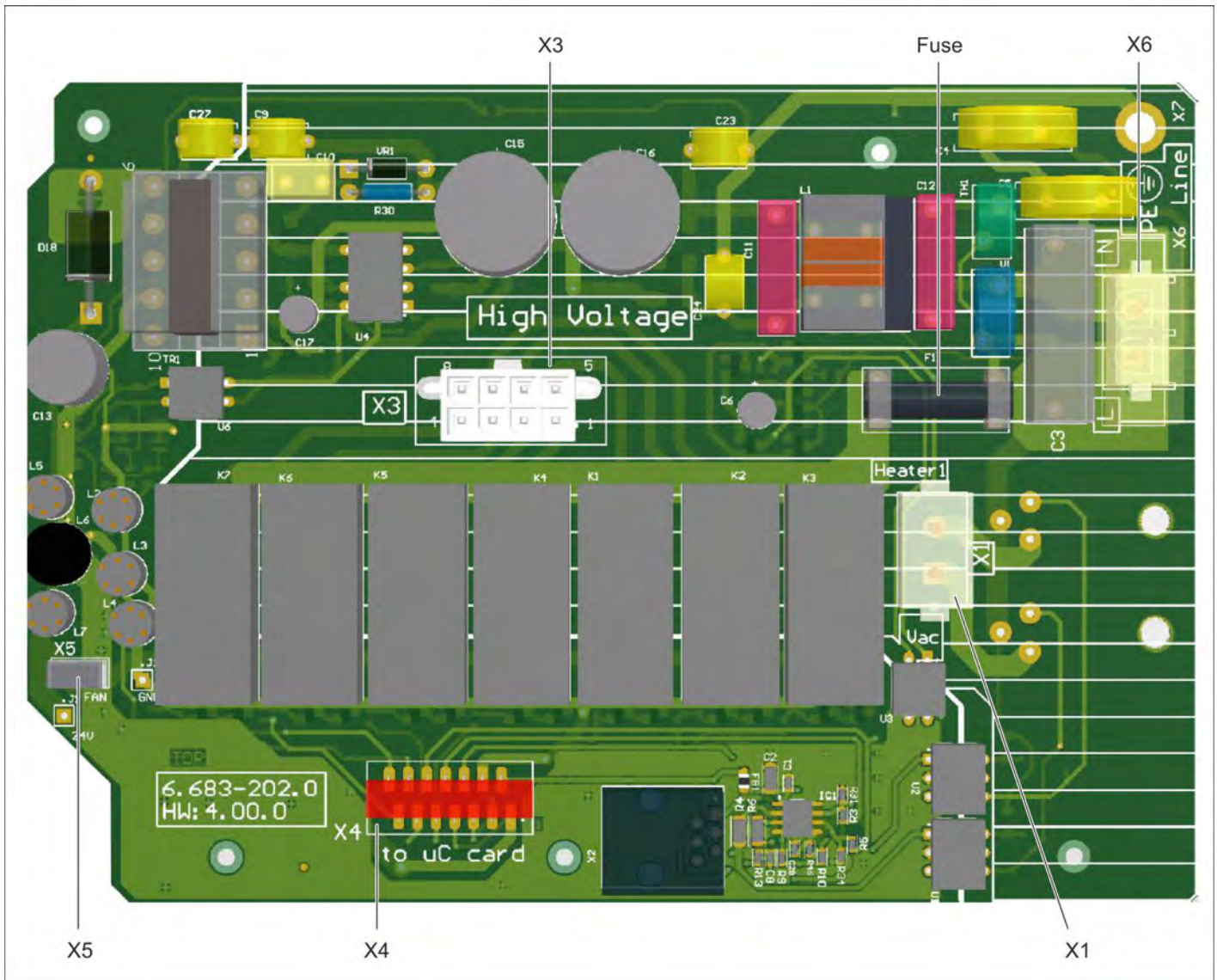
Cause	Correction
No steaming function.	<ul style="list-style-type: none"> ➔ Check the solenoid valve. ➔ Water shortage ➔ Check the steam gun. ➔ Connection between gun-hose-device is bad. ➔ Check house fuse (overload). ➔ Steam boiler pipes severely calcified. ➔ Check the steam boiler. ➔ Check electronics / check pipes / check connections. ➔ Check fresh water container for proper seating. ➔ Selector switch is positioned incorrectly. ➔ Feed pump for fresh water defective. ➔ Switching positions muddled (RESET).

Overview circuit boards

µC-Card



Power Card



Technical Documentation

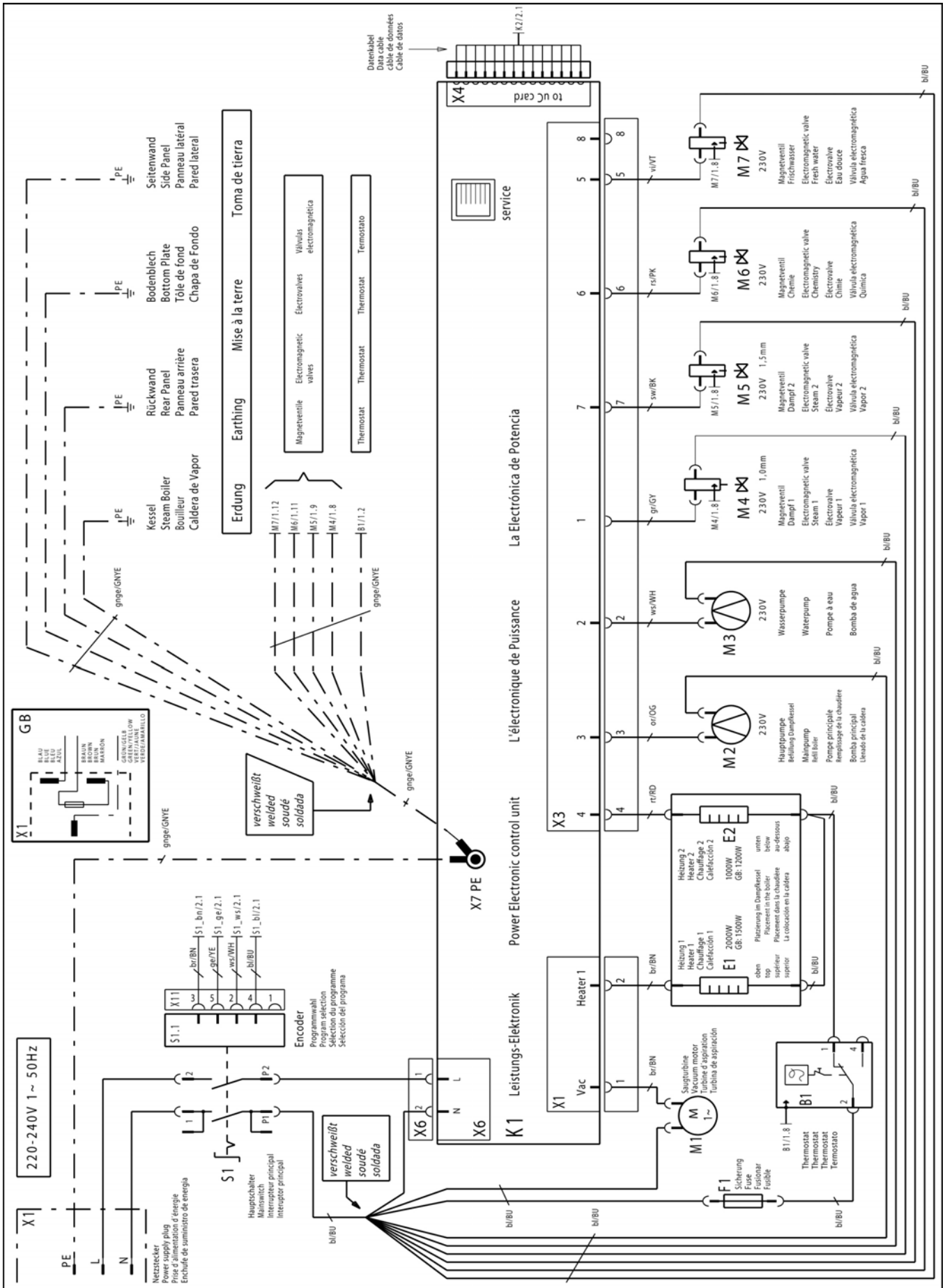
Technical specifications

		SGV 6/5	SGV 6/5 *GB	SGV 8/5	SGV 8/5 *GB	SGV 8/5 *AU
Mains voltage	V	220-240	220-240	220-240	220-240	240
Frequency	Hz	1~ 50	1~ 50	1~ 50	1~ 50	1~ 50
Voltage in the handle	V	5	5	5	5	5
Nominal power of the appliance (total)	W	3400	2900	3400	2900	2400
Nominal power fan	W	1200	1200	1200	1200	1200
Rated input boiler	W	3000	2700	3000	2700	2200
Main pump	W	48	48	48	48	48
Water pump	W	28	28	28	28	28
Steam boiler	l	3.4	3.4	3.4	3.4	3.4
Filling quantity fresh water container	l	5.6	5.6	5.6	5.6	5.6
Filling quantity wastewater container	l	5	5	5	5	5
Filling quantity detergent container	l	--	--	2	2	2
Air volume (max.)	l/s	74	74	74	74	74
Negative pressure (max.)	kPa (mbar)	25.4 (254)	25.4 (254)	25.4 (254)	25.4 (254)	25.4 (254)
Working pressure	MPa	0.6	0.6	0.8	0.8	0.8
Steam pressure (max.)	MPa	1.0	1.0	1.2	1.2	1.2
Steam quantity (max.) - consistent	g/min	55	50	75	65	60
Heating time	min	6.5	7.0	7.0	8.0	10.0
Max. operating temperature of hot water	°C	70	70	70	70	70
Max. operating temperature of steam	°C	164	164	173	173	173
Water flow rate	ml/min	550	550	550	550	550
Detergent flow rate	ml/min	--	--	550	550	550
Type of protection	--	IPX4	IPX4	IPX4	IPX4	IPX4
Protective class	--	I	I	I	I	I
Length x width x height	mm	640 x 495 x 965	640 x 495 x 965	640 x 495 x 965	640 x 495 x 965	640 x 495 x 965
Typical operating weight	kg	39	39	40	40	40
Angle of inclination (max.)	°	10	10	10	10	10
Values determined as per EN 60335-2-68						
Sound pressure level L_{pA}	dB(A)	67	67	67	67	67
Uncertainty K_{pA}	dB(A)	1	1	1	1	1
Hand-arm vibration value	m/s ²	<2.5	<2.5	<2.5	<2.5	<2.5
Uncertainty K	m/s ²	0.2	0.2	0.2	0.2	0.2

Circuit diagram

When working on the device, please always use the current circuit diagram in DISIS.

Performance electronics



Control electronics

