KÄRCHER

New Unit Information

Puzzi 8/1 C

1.100-200.0

General

– Wet cleaner for cleaning carpets for commercial use in hotels, shops, offices, etc.
– Tank volume:
  Fresh-water tank = 8 l
  Wastewater tank = 7 l
– Noise emission 71 dB(A).
– Floor tool for carpets,
  working width 230 mm.

Electrics

– Motor 1380 watt.
– 7.5 m mains cable.
– Bypass suction motor.

Accessories (optional)

– Hand tool for upholstery, wall carpets, cleaning vehicle interiors, working width 110 mm.
– Stairs tool for cleaning stairs.

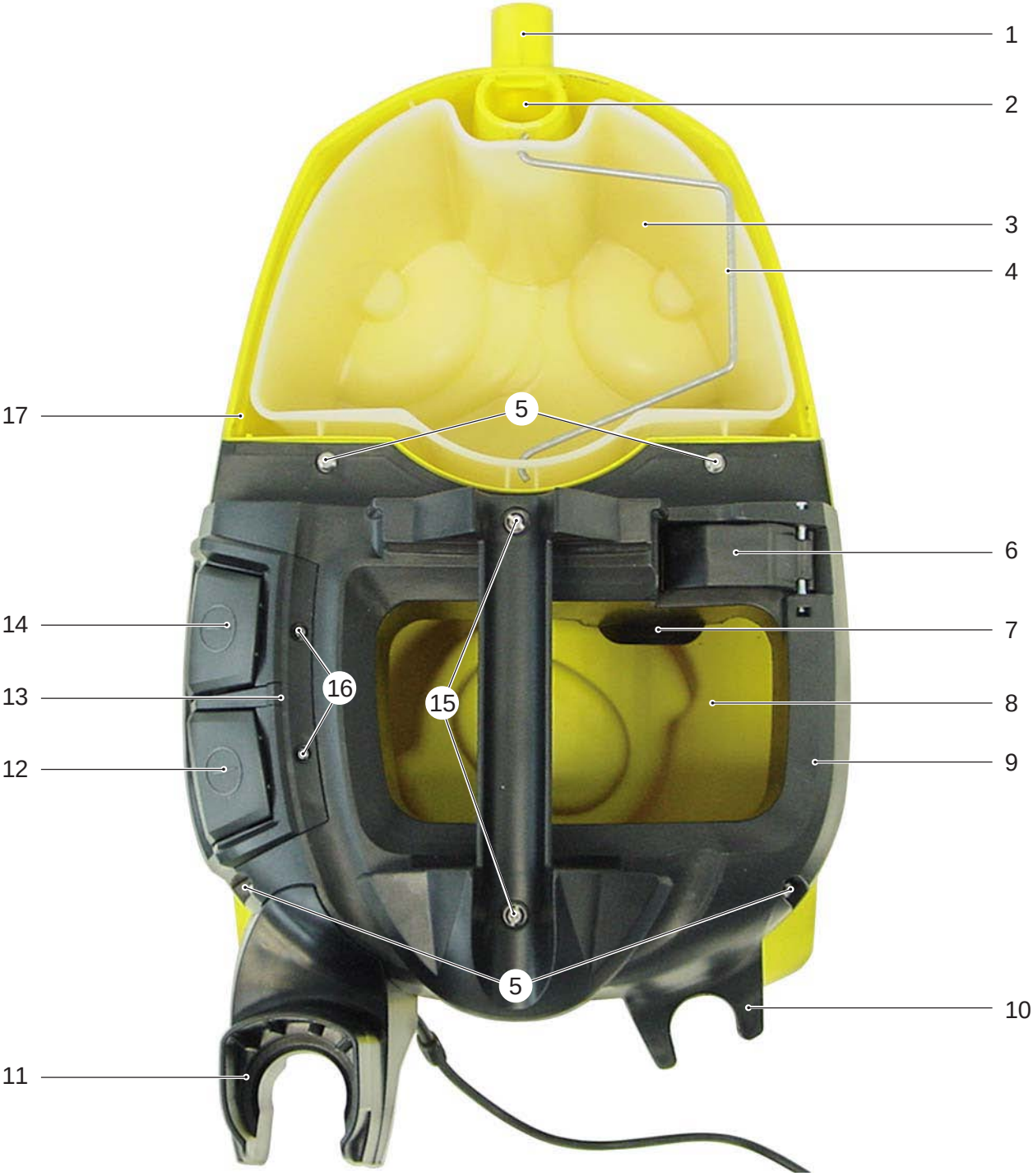
View from the front

1 Bracket, floor tool with suction tube
2 Carrying handle and suction tube storage during transport
3 Filler opening, fresh water
4 Switch (S2), water pump (M2)
5 Switch (S1), suction motor (M1)
6 Unit housing, upper section
7 Unit housing, lower section
8 Wheel (2x)
9 Swivel casters (2x)
10 Connection, fresh-water hose
11 Connection, suction hose
12 Cover, wastewater tank

Rear view

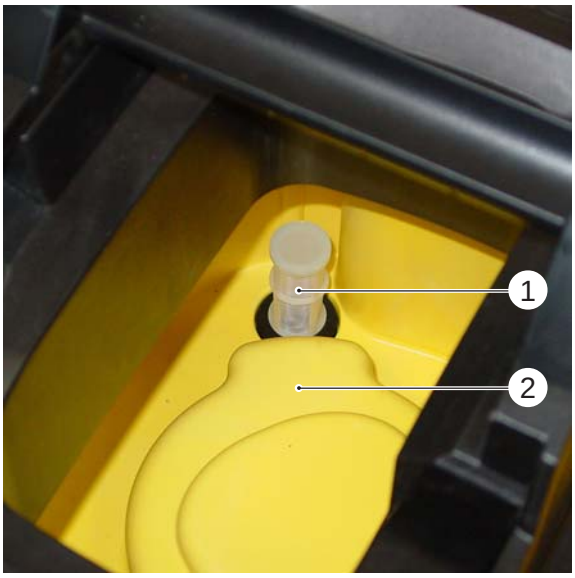
1 Carrying handle and suction tube storage during transport
2 Mains cable retractor
3 Unit housing, upper section
4 Bracket, upholstery tool (optional)
5 Unit housing, lower section
6 Bracket, upholstery tool (optional)
7 Mains cable
8 Bracket, floor tool with suction tube

View from above, wastewater tank cover removed



1 Connection, suction hose
2 Wastewater channel
3 Wastewater tank
4 Handle, wastewater tank
5 Retaining screws (4x), unit housing, upper section
6 Hook, for transporting the suction hose
7 „MAX“ mark, maximum water level in the fresh-water tank
8 Fresh-water tank
9 Unit housing, upper section
10 Bracket, upholstery tool (optional)
11 Bracket, floor tool with suction tube
12 Switch element of (S2)
13 Bracket, switch elements
14 Switch element of (S1)
15 Retaining screws (2x), carrying handle
16 Retaining screws (2x), bracket, switch elements
17 Unit housing, lower section

Fresh-water tank



Water filter

Water filter

Filters contaminations out of fresh water in order to prevent damage to the water pump (M2).

„MAX“ mark

„MAX“ mark

The „MAX“ mark (3) in the fresh-water tank (2) indicates the maximum water quantity, which may be added to the fresh-water tank (2).

Note
If water is added to the fresh-water tank above the „MAX“ mark and this volume of water is completely processed, it is possible that the wastewater tank cannot accept the whole volume of water and therefore overflows.

1 Water filter in the fresh-water tank
2 Fresh-water tank
3 „MAX“ mark, maximum water level in the fresh-water tank

Unit housing, wastewater tank removed

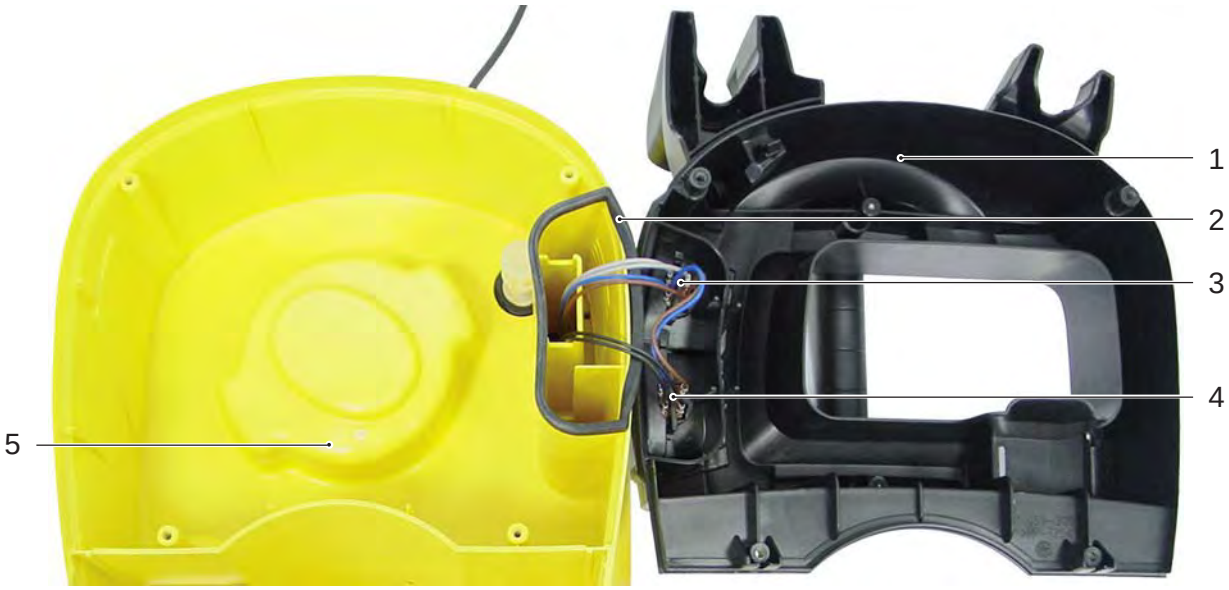
1 Unit housing, lower section

2 Air intake (drawn in air) opening with fluff strainer

Fluff strainer

Filters coarse contaminations out of the drawn in air in order to prevent damage to the suction motor (M1).

Unit housing, upper section removed

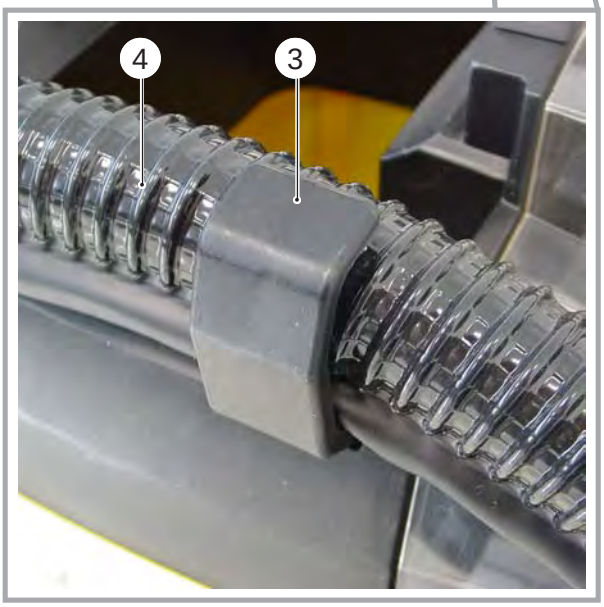


1 Unit housing, upper section
2 Sealing strip
3 Switch (S2), water pump (M2)
4 Switch (S1), suction motor (M1)
5 Unit housing, lower section

View from below

1 Fresh-water hose to the spray/ suction hose
2 Floor cover
3 Wheel, LH
4 Retaining screw, LH wheel
5 Air discharge, motor cooling air
6 Retaining screw, RH wheel
7 Wheel, RH
8 Retaining screws (9x), floor cover
9 Swivel casters (2x)

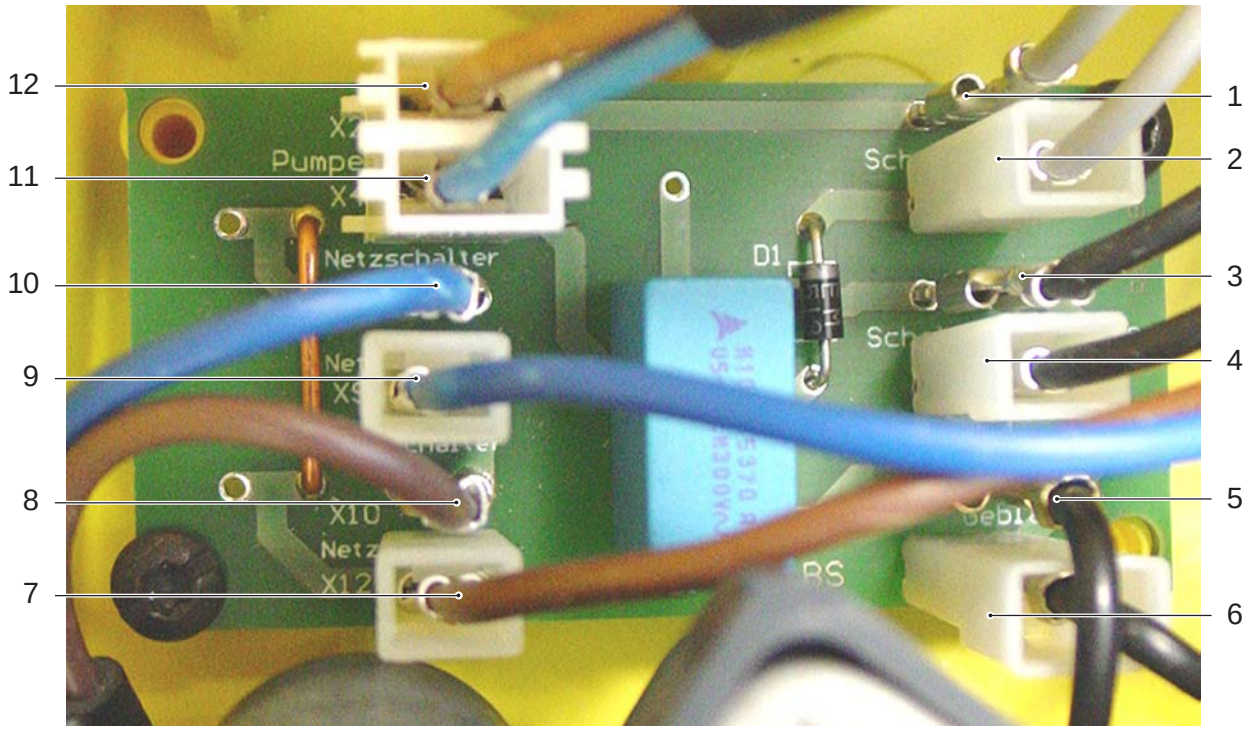
Transport



The spray / suction tube is pressed onto the carrying handle (2) for transporting the unit. The suction / spray hose is inserted in the hook (3).

1 Spray / suction tube
2 Carrying handle and suction tube storage during transport
3 Hook, for transporting the suction hose
4 Spray / suction hose

Printed circuit board (N1)



1 Terminal strip (X1), switch (S2), water pump (M2)
2 Terminal strip (X3), switch (S2), water pump (M2)
3 Terminal strip (X5), switch (S1), suction motor (M1)
4 Terminal strip (X7), switch (S1), suction motor (M1)
5 Terminal strip (X8), suction motor (M1)
6 Terminal strip (X6), suction motor (M1)
7 Terminal strip (X12), mains connection to switch (S1), suction motor (M1)
8 Terminal strip (X10), mains connection
9 Terminal strip (X9), mains connection to switch (S1), suction motor (M1)
10 Terminal strip (X11), mains connection
11 Terminal strip (X4), water pump (M2)
12 Terminal strip (X2), water pump (M2)

Spray / suction hose

1 Spray / suction hose
2 Fresh-water hose
3 Connection sleeve, suction hose
4 Connection, fresh-water hose
5 Handle section
6 Lever, spray function release
7 Threaded connection, connection to the spray / suction tube

Spray / suction tube

Threaded connection closed

Threaded connection open

Floor tool for carpets

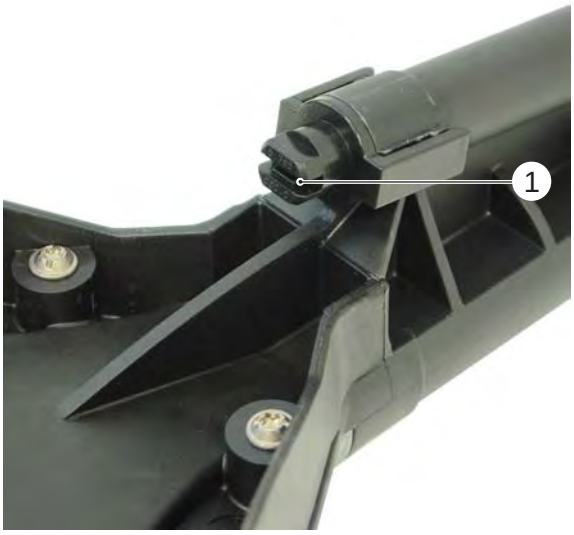
Threaded connection

The threaded connection (2) is used to connect the handle section (see Page 12, Item 5) and the floor tool (4) with the spray / suction tube.

– Open threaded connection (left-hand thread) (3) and push onto the spray / suction tube.
– If the spray / suction tube is fitted up to the limit stop in the threaded connection, close the threaded connection again (left-hand thread) (2).

1 Spray / suction tube
2 Threaded connection closed, connection to the spray / suction tube
3 Threaded connection open, connection to the spray / suction tube
4 Floor tool for carpets, working width 230 mm

Spray / suction tube



Spray nozzle on the floor tool

Spray nozzle

The spray nozzle (1) sprays the fresh water - cleaning agent mixture onto the carpet to be cleaned.

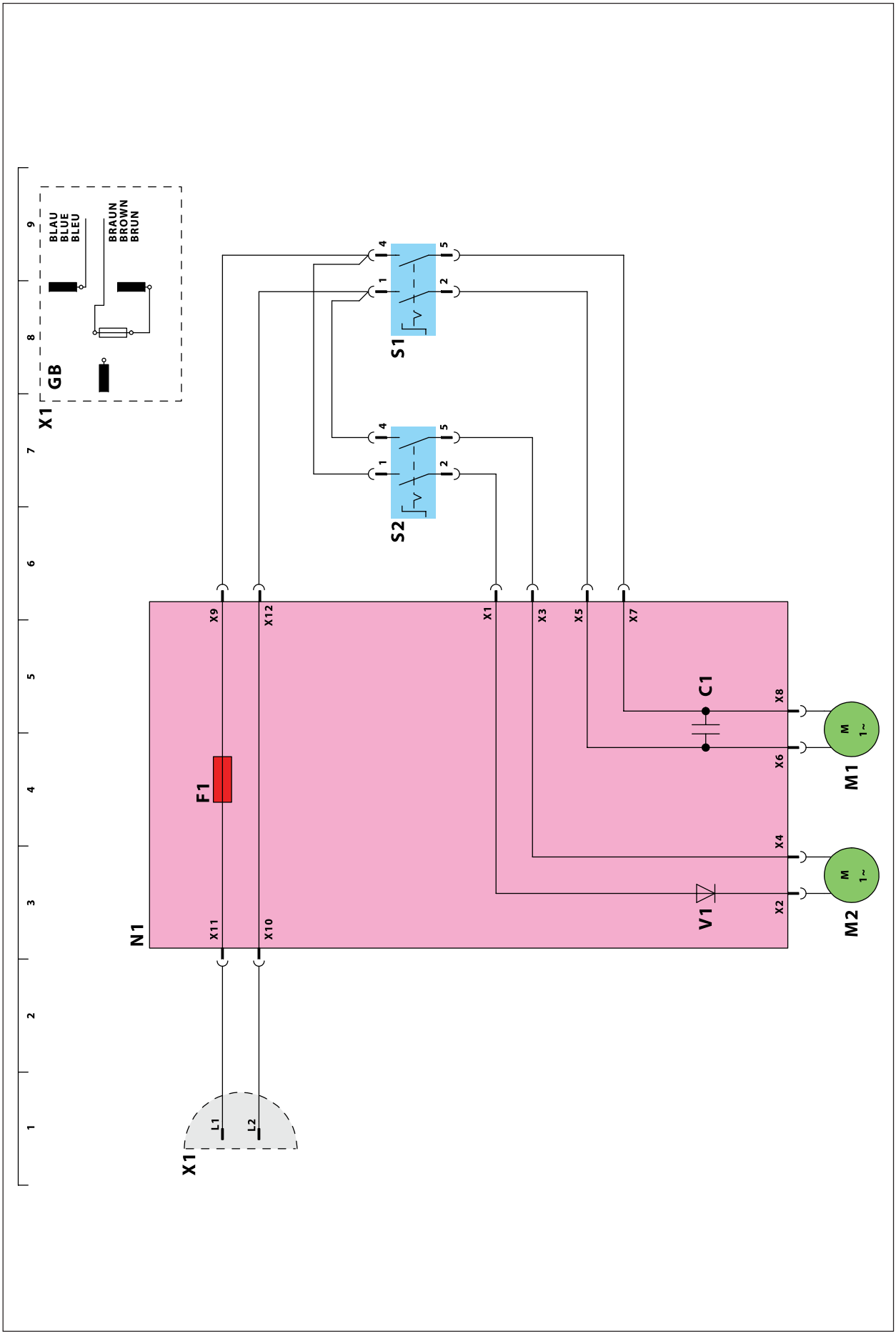
Guide handle

Guide handle

The guide handle (2) can be used to exert an appropriate pressure on the floor nozzle in order to vacuum up the water - cleaning mixture sprayed onto the carpet.

1 Spray nozzle
2 Guide handle

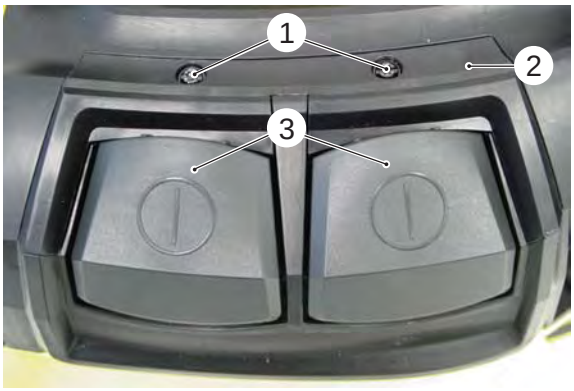
Circuit diagram 0.088-980.0



Circuit diagram 0.088-980.0

C1 Capacitor
F1 Fuse (in Japan version only)
M1 Suction motor
M2 Water pump
N1 Printed circuit board
S1 ON/OFF switch, suction motor
S2 ON/OFF switch, water pump
V1 Diode
X1 Mains plug

Unit switch



Switch elements installed

Replacing switches

If one of the switches (S1) or (S2) is defective, it can be removed and replaced as follows.

– Remove the retaining screws (1).
– Remove switch elements bracket (2).
– Remove switch elements (3).
– Remove rubber covers (4).

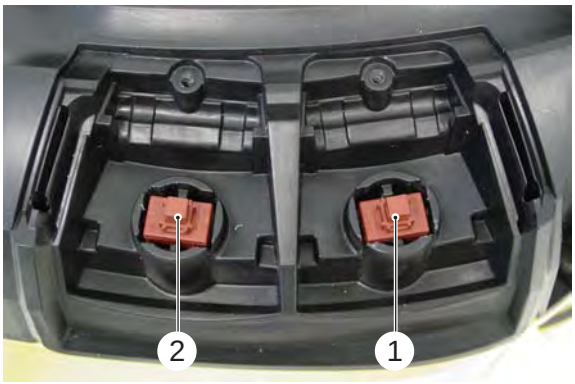
(Procedure continued on Page 18)

Bracket removed

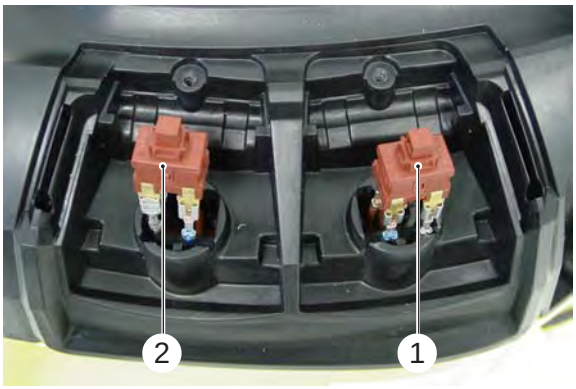
Switch elements removed

1 Retaining screws (2x), bracket, switch elements
2 Bracket, switch elements
3 Switch elements
4 Rubber covers

Unit switch



Rubber covers removed



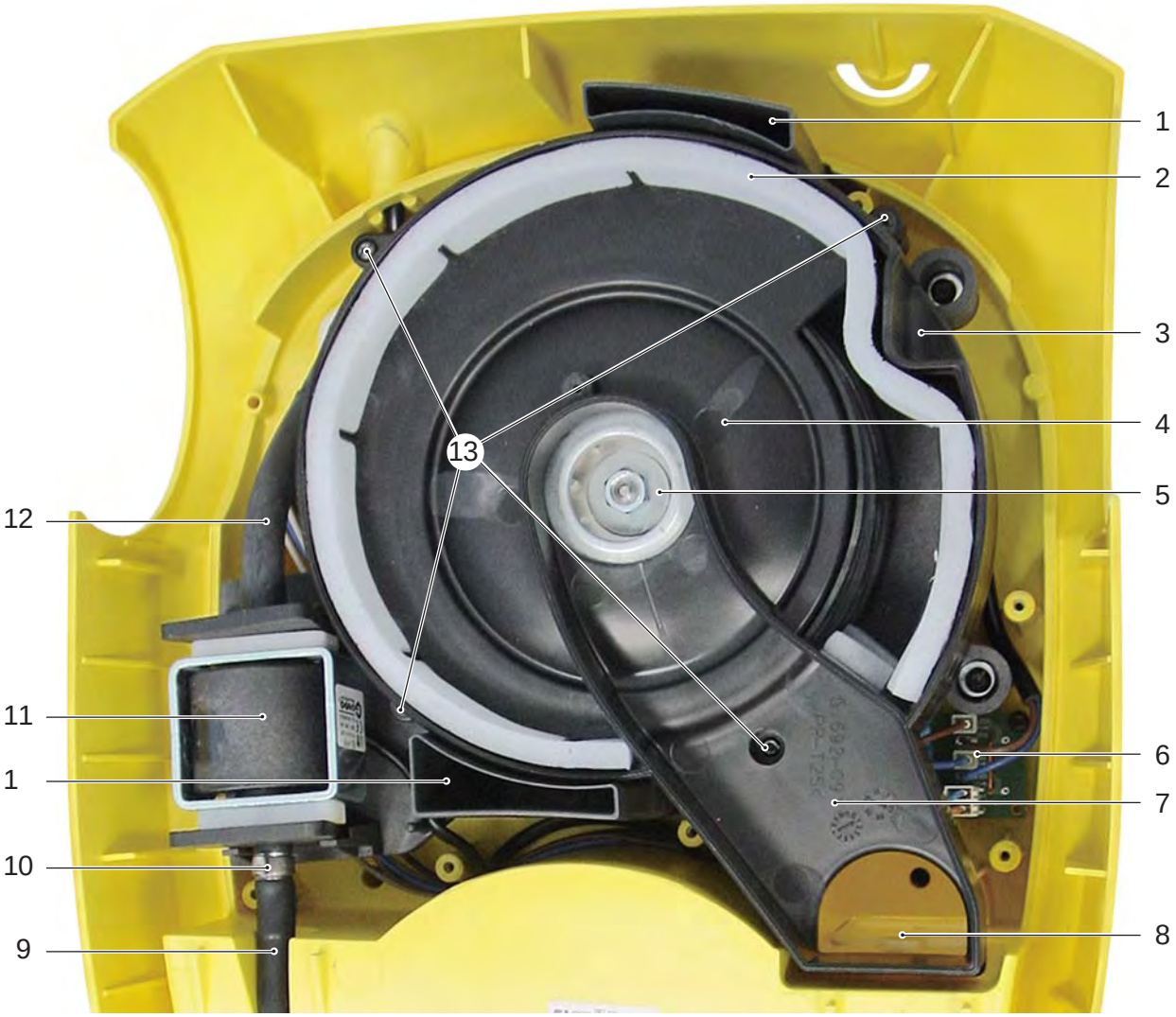
Switches (S1) and (S2) pulled out

1 Switch (S2), water pump (M2)
2 Switch (S1), suction motor (M1)

Replacing switches

– Pull the relevant switch (1, 2) out of the bracket.
– Remove the cable connections from the relevant switch (1, 2) and note the cable assignment at the switch.
– Install new switch in reverse order.

Floor cover removed



1 Air discharge, motor cooling air
2 Sound insulation
3 Holder, suction motor
4 Cover, suction motor (air circuit)
5 Suction motor (M1)
6 Printed circuit board (N1)
7 Air duct, drawn in air from floor tool
8 Air intake opening with fluff strainer
9 Fresh-water hose to the spray/ suction hose
10 Hose clamp
11 Water pump (M2)
12 Water hose from fresh-water tank
13 Retaining screws (4x), suction motor cover

Remove floor cover

– Remove retaining screws (see Page 9, Item 8).
– Remove floor cover.

Remove suction motor cover

– Remove retaining screws (13).
– Remove suction motor cover.

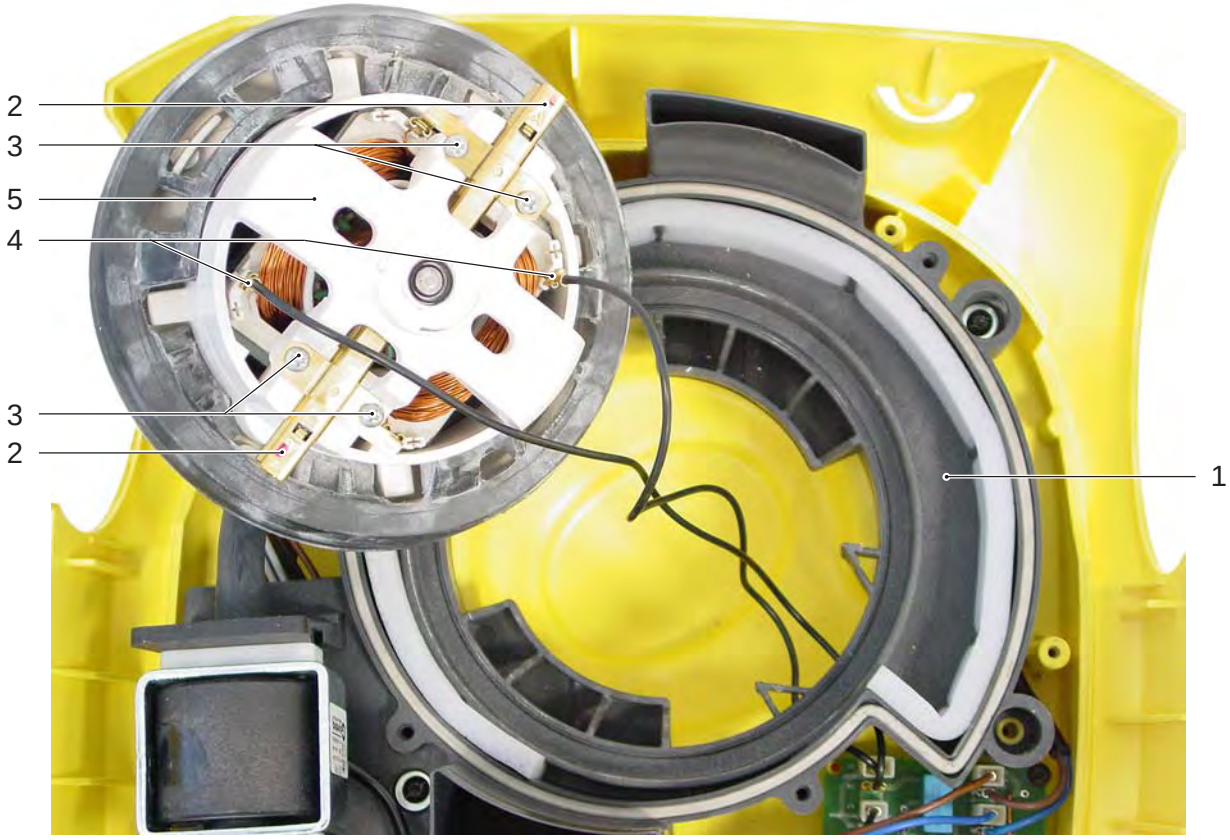
Suction motor cover removed

1 Air discharge, motor cooling air
2 Sound insulation
3 Suction motor (M1)
4 Rubber ring
5 Holder, suction motor
6 Printed circuit board (N1)
7 Fresh-water hose to the spray/suction hose
8 Water pump (M2)
9 Water hose from fresh-water tank
10 Mains cable
11 Retaining screws, suction motor holder

Remove suction motor

– Pull the suction motor (3) out of the suction motor holder (5).
– Remove wiring (see Page 21, Item 4) at the suction motor (3).

Suction motor

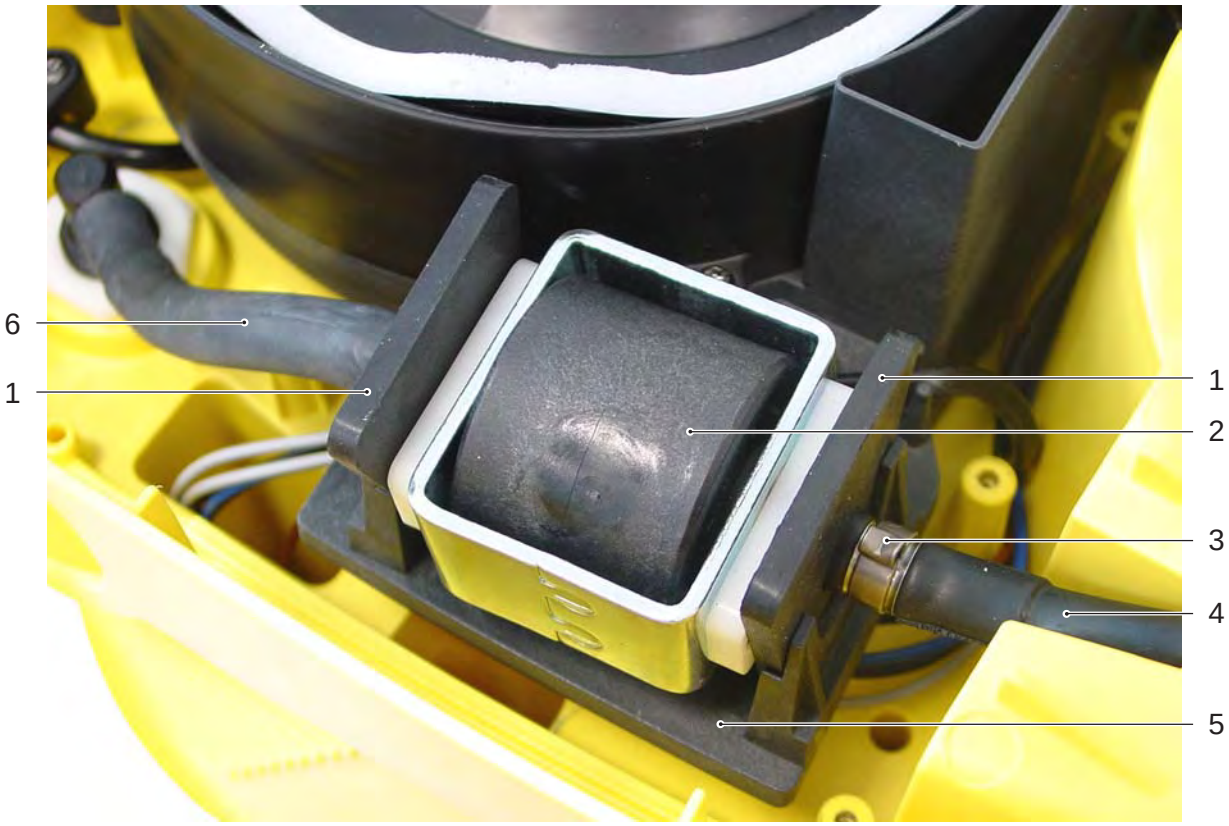


1 Holder, suction motor
2 Carbon brushes
3 Retaining screws, carbon brushes
4 Cable connection, suction motor
5 Suction motor (M1)

Replacing the carbon brushes

– Remove the retaining screws (3).
– Remove carbon brushes (2).
– Install new carbon brush in reverse order.

Water pump

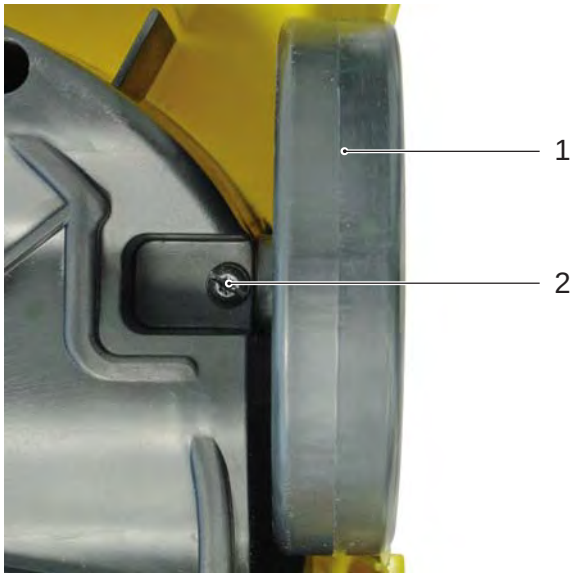


1 Rubber mounts (2x), water pump
2 Water pump (M2)
3 Hose clamp
4 Fresh-water hose to the spray/suction hose
5 Holder, water pump
6 Water hose from fresh-water tank

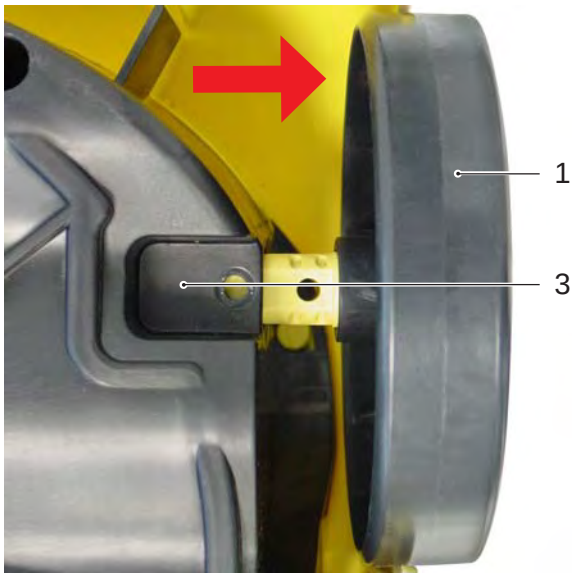
Removing the water pump

– Remove floor cover (see Page 19).
– Remove water pump (2) with the rubber mounts (1) from the holder (5).
– Remove hose clamp (3).
– Pull hoses (4, 6) off the water pump (2).
– Remove rubber mount (1) from the water pump.
– Install new water pump in reverse order.

Wheel



Wheel installed



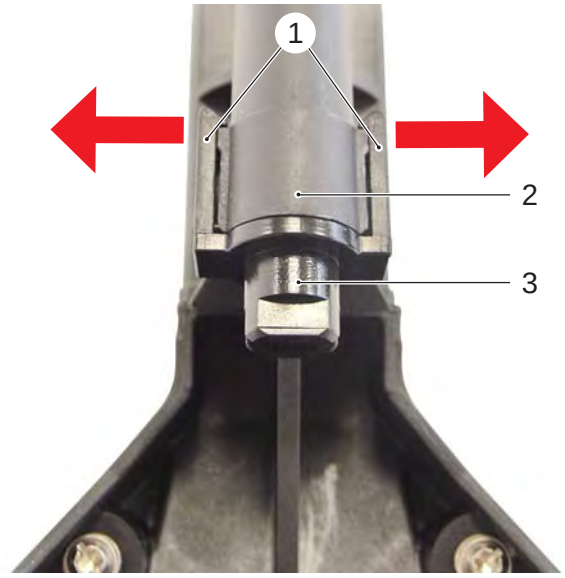
Wheel, retaining screw removed

1 Wheel, installed
2 Retaining screw, wheel
3 Holder, wheel

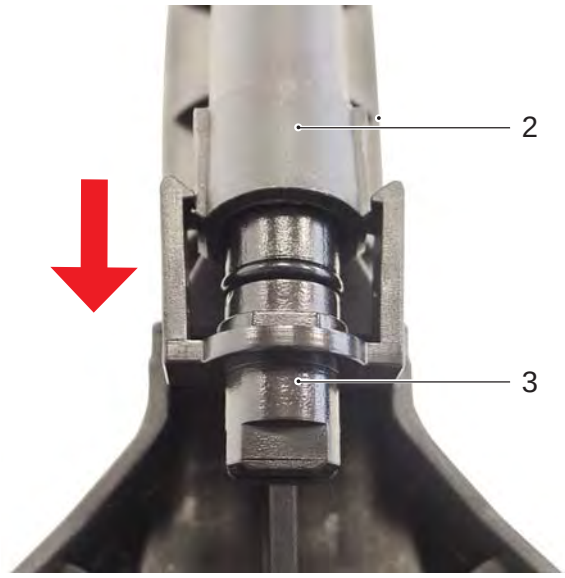
Replacing the wheel

– Remove the retaining screw (2).
– Pull the wheel (1) out of the holder (3).
– Install new wheel in reverse order.

Spray nozzle



Spray nozzle on the floor tool



Spray nozzle on the floor tool

1 Latch tabs
2 Spray tube
3 Spray nozzle

Replacing the spray nozzle

The spray nozzle (3) is inserted in the spray tube (2) and is held by two latching tabs (1) on the left and right. If it is defective or blocked it can be replaced as follows:

– Push latch tabs (1) apart (see arrow direction).
– Pull the spray nozzle (3) towards the front and out of the spray tube (2).
– Push the new spray nozzle into the spray tube (2), until it audibly latches into position.

Guide handle

Guide handle

Adjusting the guide handle

The guide handle is pushed onto the spray / suction tube and is attached with two Allen screws.

– Loosen Allen screws (2) with an Allen key (4).
– Push the guide handle (1) up or down onto the spray / suction tube until the required position is reached.
– Tighten Allen screws (2).

Loosen/tighten Allen screws

Allen key bracket

Allen key bracket

The Allen key (4) is inserted in a bracket (5) on the underside of the guide handle (1).

1 Guide handle
2 Allen screws (2x)
3 Spray / suction tube
4 Allen key
5 Bracket, Allen key

Troubleshooting

Faults	Solution
No water discharge at the nozzle	– Check/top up water level in the fresh-water tank. – Check connections at spray/suction hose for correct fit/wear. – Check spray nozzle for blockage - clean/replace. – Check water filter in fresh-water tank for blockage - clean/ replace. – Check/replace water pump (M2).
One-sided spray jet	– Check spray nozzle for blockage - clean/replace.
Insufficient suction performance	– Check correct fit of the wastewater tank cover/correctly position. – Check/clean/replace seal at wastewater tank cover. – Check/clean fluff strainer. – Check spray / suction hose for blockage - clean. – Check/replace suction motor (M1).
Water pump is loud	– Check/top up water level in the fresh-water tank.

Technical specifications

Unit type	Unit No.	Circuit diagram	Operating instructions	Spare parts list
Puzzi 8/1 C	1.100-200.0	0.088-980.0	5.962-081.0	5.970-682.0

The technical data sheet and the circuit diagram will be included in the next issue of the spare parts CD-ROM (DISIS) and are also available in kaercher-inside (https://kaercher-inside.com).

Special tools

No special tools are required.

Tightening torque

No details.

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