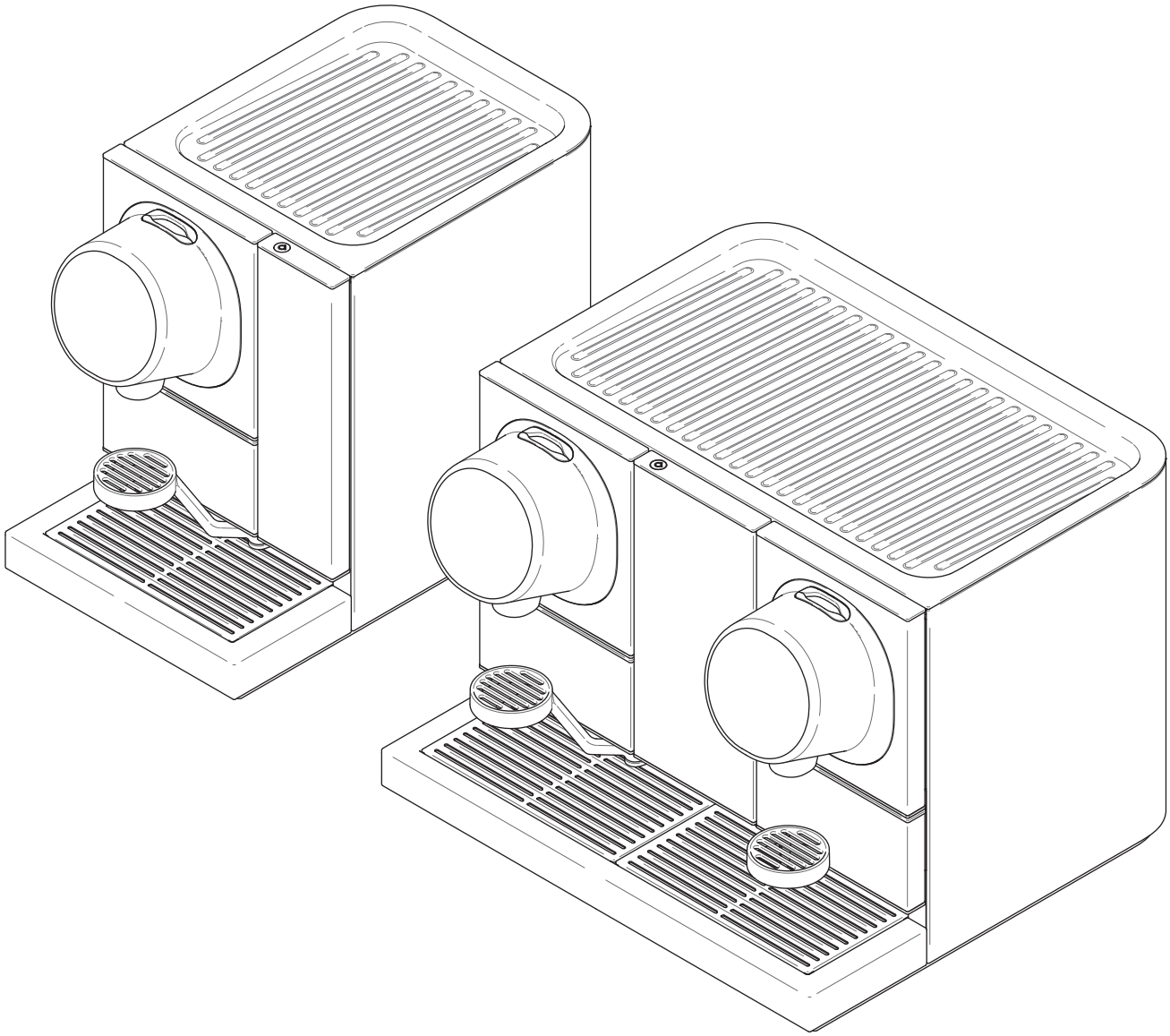
SERVICE MANUAL
COFFEE MACHINES

MOMENTO 100 / 200



Version 0.1 EN
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CONTENTS

General Safety Notes 5

Model Range 6

Main Components 7

Momento 100 Chassis 7
Momento 120/200 Chassis 8
Coffee Module 9
Overview – Chassis Rear Side 11
Removable Parts 12
Rating plate 13
Technical data 14

Installation 15

Assemble power cord 15
Prepare coffee modules 16
Set Agent code 18
Direct water connection (DWC) 18
Modem connectivity check 20

Operation 21

Switching the coffee machine ON/OFF 21
Preparing a beverage 21

MMI Menus 23

Settings 23
Maintenance menu 24
Setup menu 25
Technician menu 29

Maintenance 32

Change internal filter 32
Descaling 33

Troubleshooting 34

Preventive maintenance plan 34
Checklist 34
Display Messages (Errors) 37

Repair 40

General 40
Basic repair instructions 40
Safety information 41
Screw connections – chassis 42
Screw connections – coffee module 44
Tools and accessories 47
Simple repair work 47

General disassembly 48
Removable parts 48
Remove water tank door 50
Remove panel rear 51
Remove side panel 53
Remove coffee module 55
Chassis repairs 56
Replace main fuse 56
Remove water tank slot 58
Replace ON/OFF switch 63
Remove drip tray contacts for cleaning 66
Replace smart PCB 67
Replace extension PCB (Momento 200 only) 70
Replace PTC heaters (cup heating) 72
Coffee Module repairs 74
Remove main PCB cover 74
Remove head base plate 76
Replace outlet LED 79
Replace capsule recognition 81
Replace MMI assembly (screen) 83
Replace valve(s) 87
Replace thermoblock 89
Replace flowmeter 92
Replace pump 93
Replace main PCB 95
Replace power supply 96
Replace brewing unit (maintenance kit) 97
Replace complete brewing unit (MHBU) 102

Wiring Diagrams 105

Momento 100 Chassis 105
Momento 120/200 Chassis 106
Coffee Module 107
PE Distribution 108

Final tests 109

Protective earth (PE) resistance test 110
Protective insulation resistance test 112

Spare parts 114

Exploded drawing – Momento 100 (Prefix A) 114
Spare parts list – Momento 100 120
Exploded drawing – Momento 200 (Prefix B) 124
Spare parts list – Momento 200 131
Exploded drawing – Coffee Module (Prefix C) 135
Spare parts list – Coffee Module 143

PREFACE

ℹ Please keep this manual together with the corresponding service documentation. This way you are assured to have the necessary information.

The purpose of this service manual is to provide the service personnel with all necessary information with regards to correct handling, maintenance and repair of the Momento coffee machines.

This manual should be used by the technicians as a valuable aid to guarantee the permanent readiness for use of the machines. In order to take full advantage of all the functions, it is absolutely necessary to follow the instructions in this manual.

Only use original spare parts from your official supplier for maintenance and repair work. Spare parts lists and exploded drawings are subject to change. To obtain the last version, please contact your official spare parts supplier.

ℹ Access is restricted and is obtained by asking your *Nespresso* technical contact person.

Visit the *Nespresso* technical website periodically to check for upgrades, technical modifications, counter measures etc. for these coffee machines:

https://business.nespresso.com

CONTENT UPDATES

Version 0.1

- Preliminary service manual version for proofreading

GENERAL SAFETY NOTES

Risk of fatal electrical shock and fire!
Mains voltage inside the coffee machine.
- **Unplug the appliance before cleaning.**
- **Never clean, wet or immerse plug, cord or base station in any fluid.**
- **Disconnect the power plug before disassembly – the appliance must be free of voltage.**

Danger of burns!
Hot parts and water pressure inside the coffee machine (particularly in the thermoblocks).
- **Let the coffee machine cool down before cleaning or disassembly.**
- **Do not touch any hot parts while checking for leakages.**

Possible eye hazard!
The capsule recognition module emits an invisible laser beam.
- **Do not stare into the laser beam accidentally or direct it towards other people around you.**
- **Do not put reflective objects in the path of the laser beam.**
- **Do not remove the PCB from the capsule recognition module and look on the powered laser diode with optical equipment such as a magnifying glass or a microscope.**

Danger of flooding in regard to the direct water connection!
- **During repair of the coffee machine on-site, turn off and lock stop valve of the direct water connection.**
- **Attach a danger sign to prevent unauthorised operation.**

As an additional safety measure, the use of a residual current device (RCD), also called a ground fault circuit interrupter (GFCI), in the repair centre is highly recommended.

i A class 1/I laser product is safe under reasonable foreseeable conditions of operation and is not harmful to the eyes provided that the product is used and maintained correctly.

i Example illustrations of typical devices.

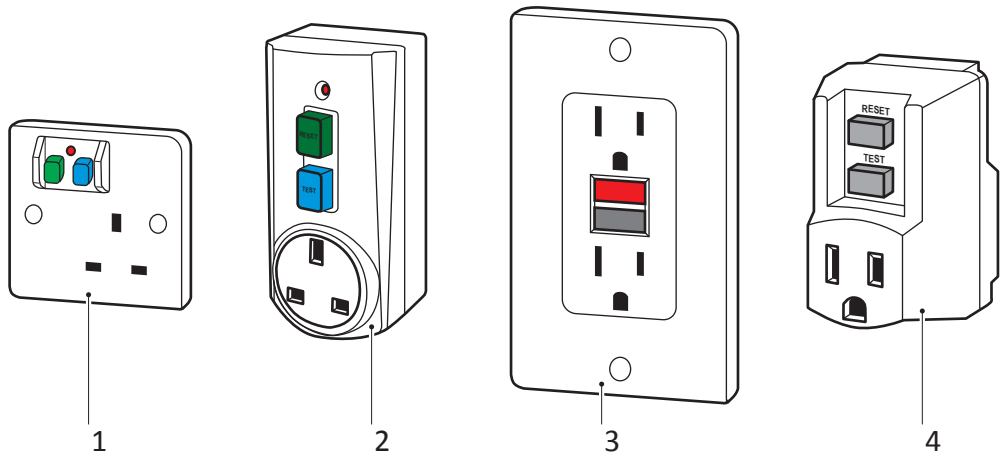
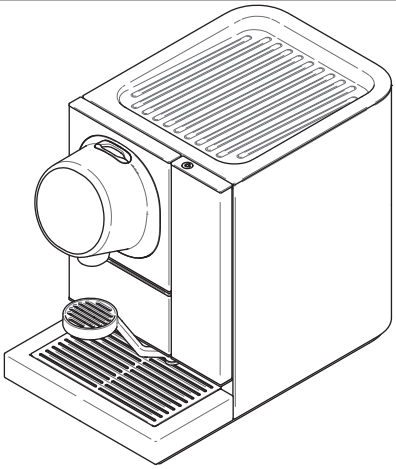
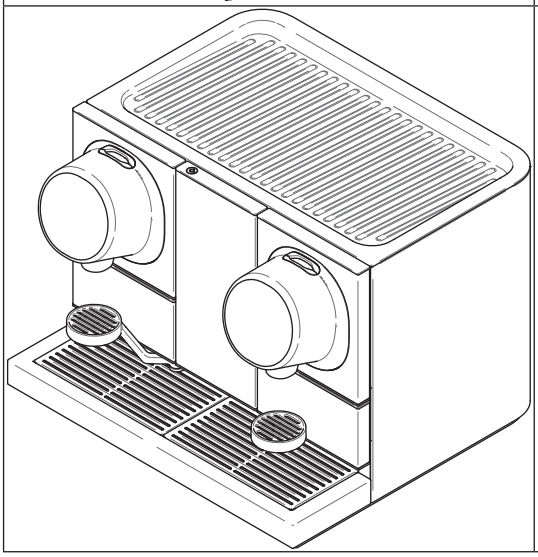


Fig. 1

1) RCD protected socket-outlet
2) Plug-in RCD unit
3) GFCI socket
4) Plug-in GFCI

MODEL RANGE

Machine illustration	Type	Overview	Fluid System
	**100**	→ p. 7	→ p. 7
	**200**	→ p. 8	→ p. 8

MAIN COMPONENTS

Momento 100 Chassis

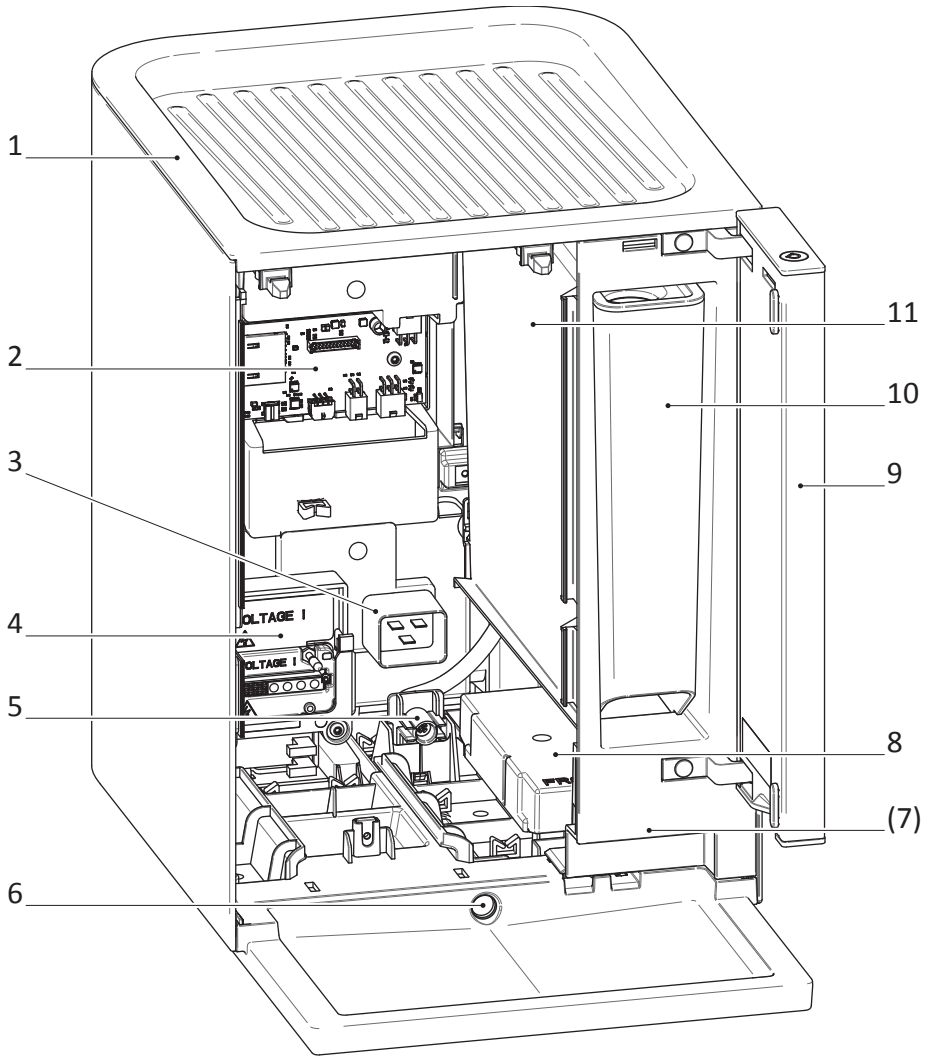


Fig. 2

1) Top plate with PTC heaters
2) Access point PCB
3) Power connection
4) Smart PCB
5) Coupling chassis / coffee module
6) Waste water outlet
7) ON/OFF switch (underneath)
8) EMC PCB
9) Water tank door
10) Water tank
11) Water tank slot 100

Fluid system

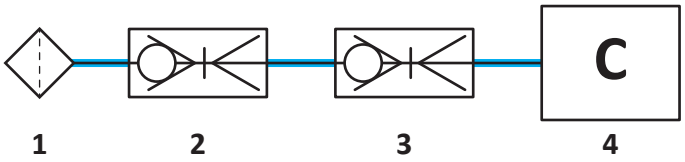


Fig. 3

1) Water tank with optional filter
2) Coupling water tank
3) Coupling chassis / coffee module
4) Coffee module → p. 9

i The numbers are not consistent with the position numbers of the spare parts list.

Momento 120/200 Chassis

i The numbers are not consistent with the position numbers of the spare parts list.

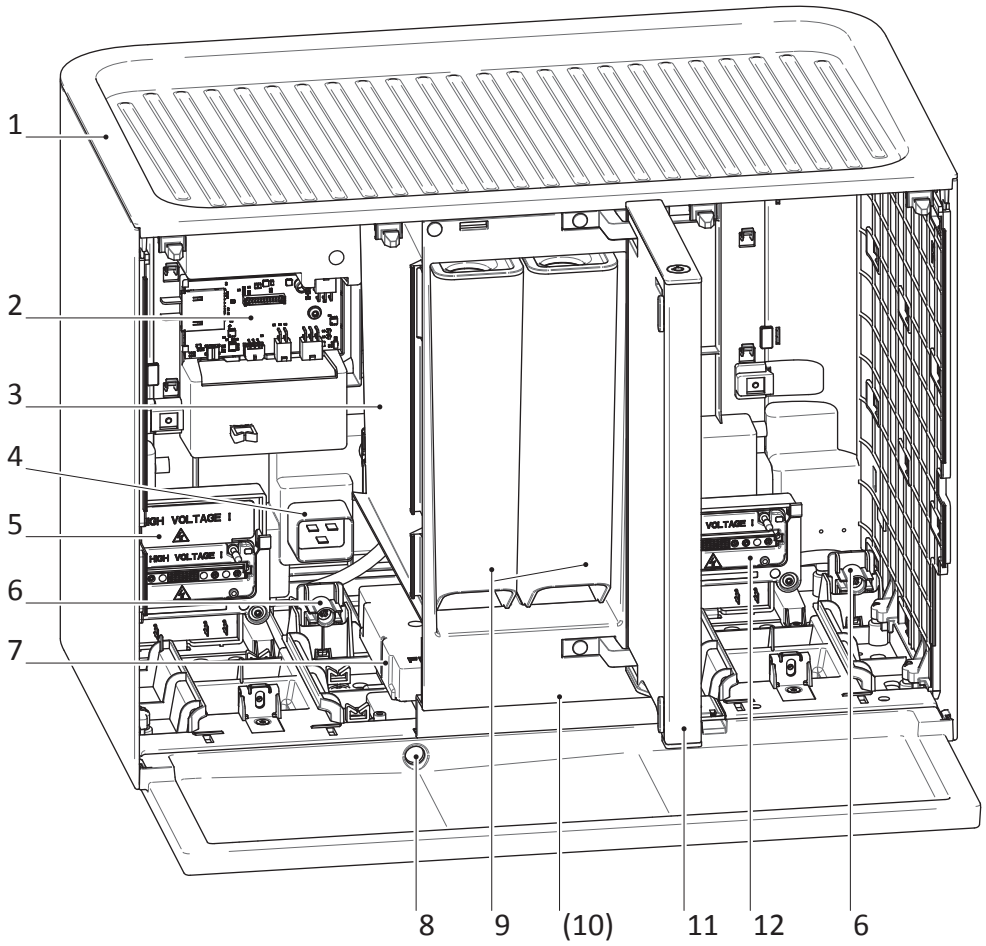


Fig. 4

1) Top plate with PTC heaters
2) Access point PCB
3) Water tank slot 200
4) Power connection
5) Smart PCB
6) Coupling chassis / coffee module
7) EMC PCB
8) Waste water outlet
9) Water tank
10) ON/OFF switch (underneath)
11) Water tank door
12) Extension PCB

Fluid system

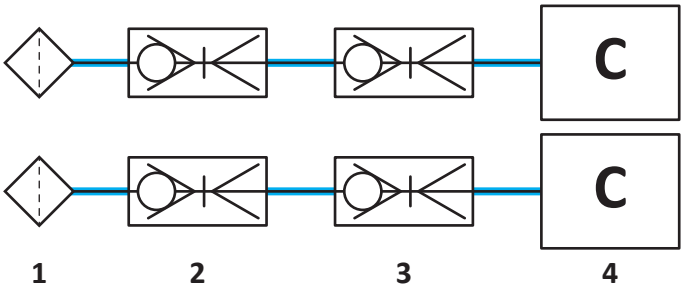


Fig. 5

1) Water tank with optional filter
2) Coupling water tank
3) Coupling chassis / coffee module
4) Coffee module left/right → p. 9

Coffee Module

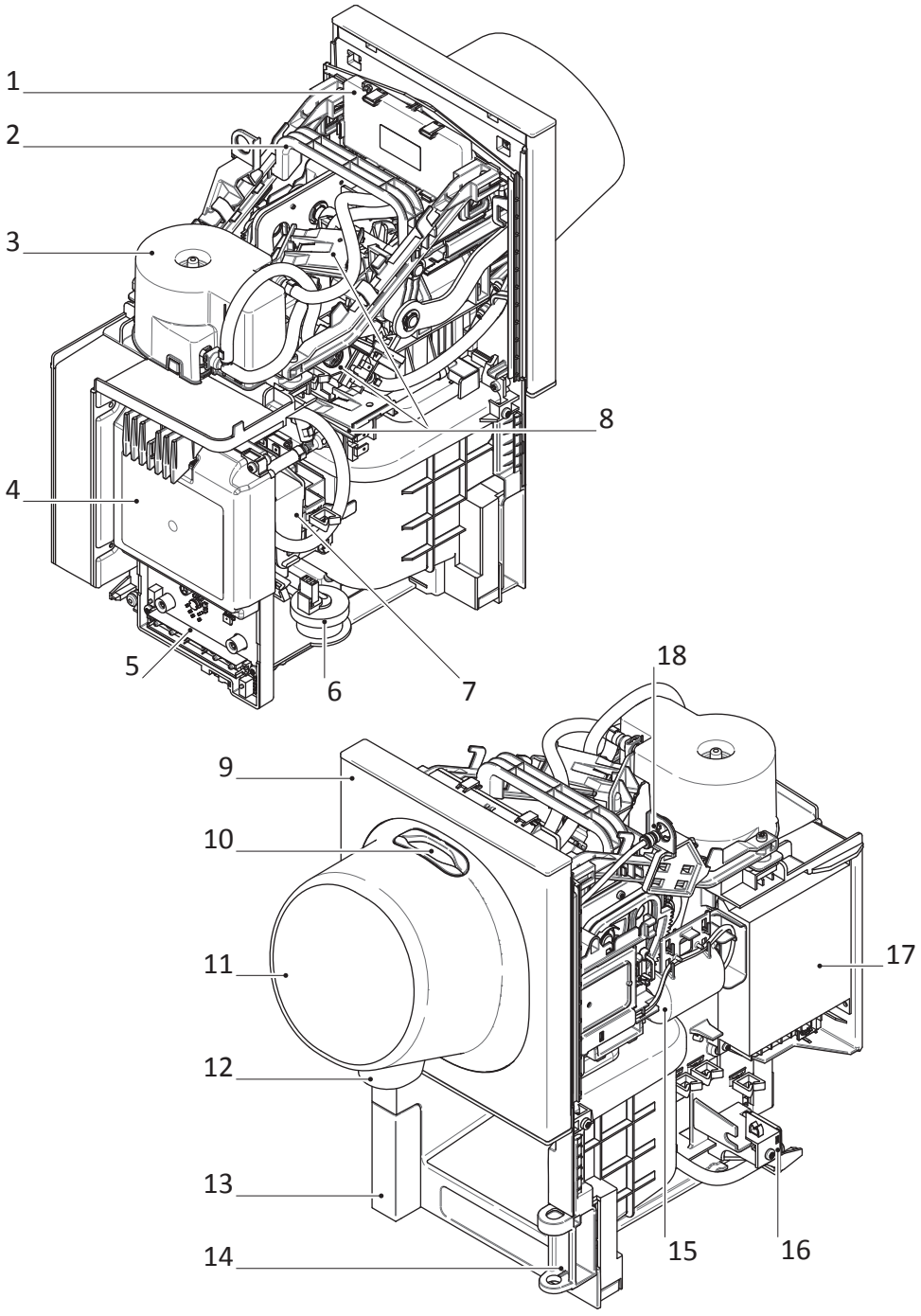


Fig. 6

1) Capsule recognition
2) Module handle / cross beam
3) Thermoblock
4) Main PCB
5) Smart / extension PCB connector
6) Flow meter
7) Pump
8) 2/2-way valves
9) Head base plate
10) Capsule guide with lid
11) MMI screen
12) Outlet
13) Blind cup holder
14) Cup holder support
15) Motorized brewing unit
16) Coupling chassis / coffee module
17) Power supply
18) Coupling milk module

i The numbers are not consistent with the position numbers of the spare parts list.

Fluid system

The numbers are not consistent with the position numbers of the spare parts list.

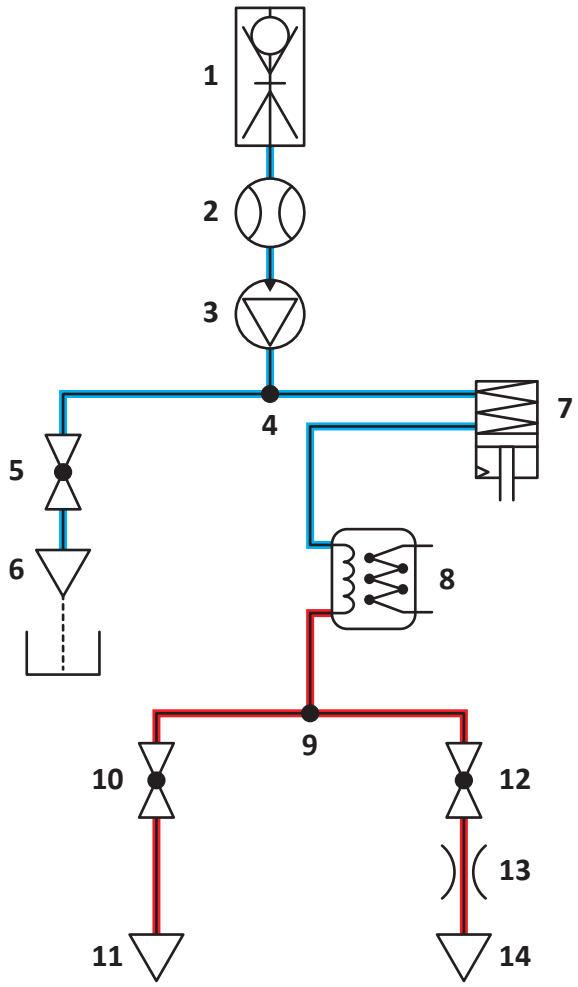


Fig. 7

1) Coupling chassis / coffee module
2) Flowmeter
3) Pump
4) T-Connector
5) 2/2-way valve DEV 122
6) Drain
7) Brewing unit – Fluidic compensation chamber
8) Thermoblock
9) T-Connector
10) 2/2-way valve DEV 122
11) Hot water outlet
12) 2/2-way valve DEV 122 inversed
13) Brewing unit – Capsule
14) Coffee outlet

Overview – Chassis Rear Side

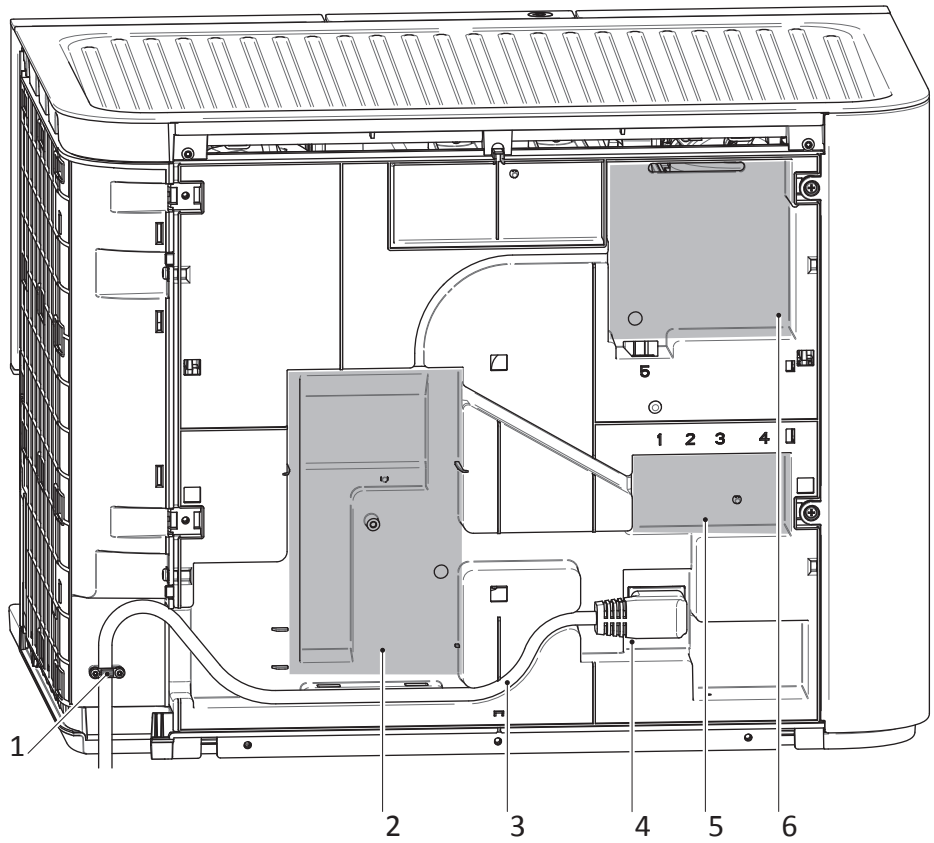


Fig. 8

1) Cable strain relief
2) DWC-Kit installation area
3) Power cord
4) Power socket
5) Access point area
6) Telemetry installation area

The Access point area (5) and Telemetry installation area (6) have numbered plugs for connection as follows:

1) Tower link plug
2) Cabinet plug
3) Direct water connection plug
4) Wired access point (Helbling debugging)
5) Telemetry modem plug

i The numbers are not consistent with the position numbers of the spare parts list.

Removable Parts

The numbers are not consistent with the position numbers of the spare parts list.

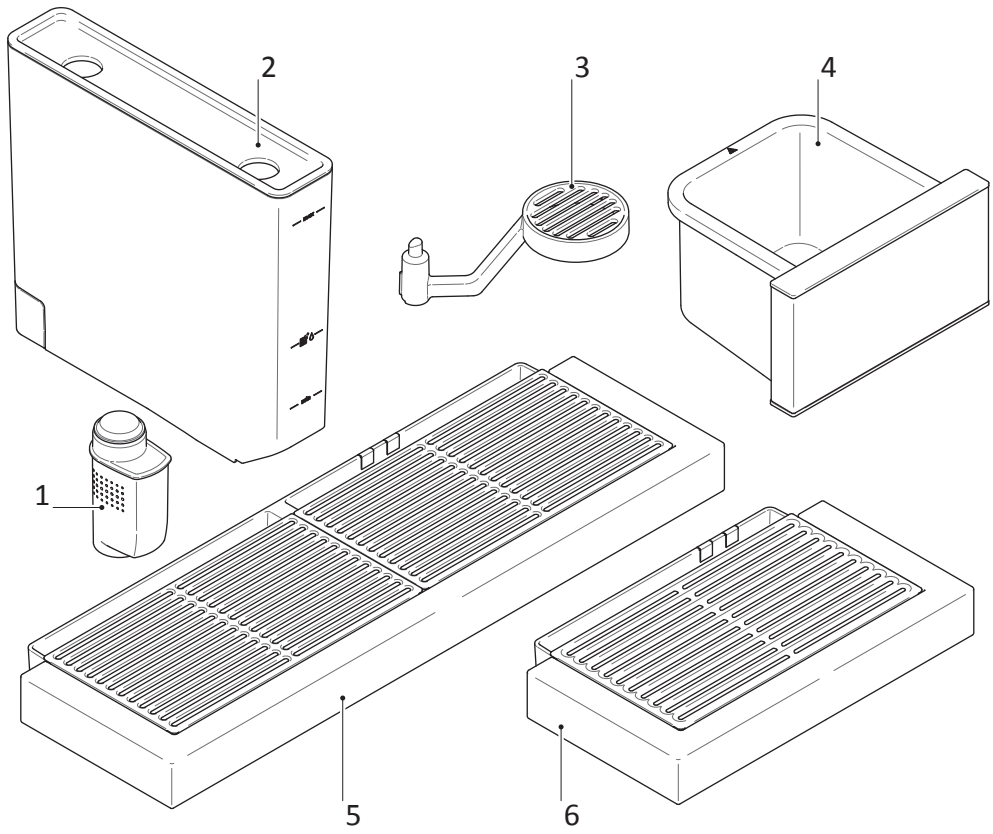


Fig. 9

1) Internal water filter
2) Water tank
3) Cup holder
4) Capsule container
5) Drip tray 120/200
6) Drip tray 100

Rating plate

Position

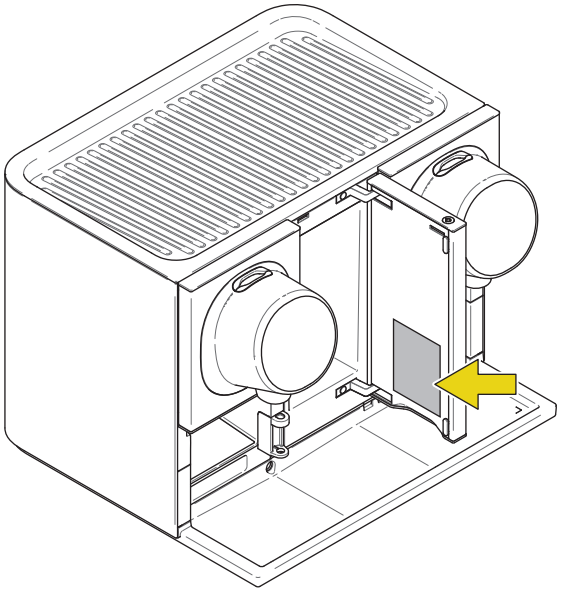


Fig. 10

The rating plate is located on the inside of the water tank door (B67/A65).

Example

Fig. 11

Technical data

Mains voltages

Europe (LT, EE, LV, RU, NO, SE, FI, DK, ES, IT, CH, UK, DE, AUS, ZA)	230 V, 50 Hz
US / CA	120 V, 60 Hz
Mexico	127 V, 50 / 60 Hz
Brazil	127 V, 60 Hz
Chile	220 V, 50 Hz
Argentina	220 V, 50 Hz
Costa Rica, Guatemala, El Salvador, Ecuador, Nicaragua	120 V, 60 Hz
Colombia	110 V, 60 Hz
Israel	230 V, 50 Hz
Australia / New Zealand	220–240 V, 50/60 Hz
China	220–240 V, 50 Hz
Hong Kong	220–240 V, 50 Hz
Taiwan	110 V, 60 Hz
South Korea	220 V, 50 Hz
Japan	100 V, 50/60 Hz
Singapore, Malaysia	230 V, 50 Hz

Power ratings

Thermoblock (coffee module)	nominal 1100 W
Pump (coffee module)	55 W – 70 W

Environmental conditions

Operating temperature range	+5 °C – +32 °C (+41 °F – +90 °F)
Storage temperature range	–25 °C – +60 °C (–13 °F – +140 °F)
Operating humidity range	no condensation, 90 %
Operating altitude	approx. 2500 m (735 hPa)

Capacities

Water tank	2.8 l
Drip tray single coffee chassis	600 ml
Drip tray double coffee/milk chassis	1600 ml
Capsule container	40 pcs. min.

Weight

Momento 100	16 kg
Momento 200	28 kg

Dimensions (width × depth × height)

Single coffee chassis	300 × 500 × 420 mm
Double coffee/milk chassis	560 × 500 × 420 mm
Power cord length	1.8 m

INSTALLATION

This chapter will guide you through the mandatory (and optional) steps for installing a Momento coffee machine on the customer's side.

Mandatory

- Assemble the power cord → p. 15.
- Prepare the coffee modules → p. 16.
- For Momento 200: Do an insulation resistance test → p. 112.
- Start the machine and do a modem connectivity check → p. 20.
- Set your agent code → p. 18 / → p. 29.

Optional

- Install the direct water connection kit → p. 18.

Assemble power cord

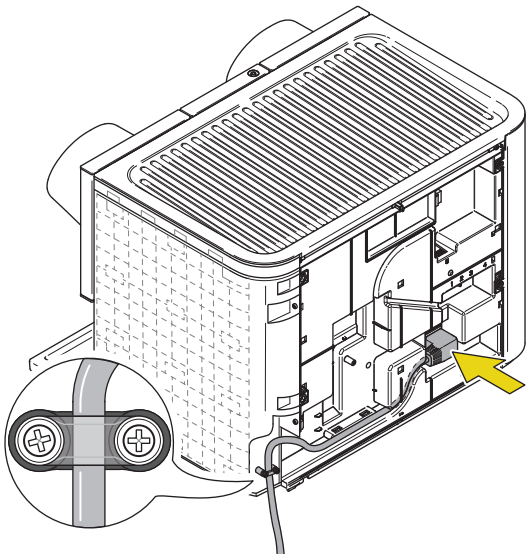


Fig. 12

Prerequisites

- Panel rear is removed → p. 51.
- Right side panel is removed → p. 53.

Procedure

1. Loosen 2 screws (TX10) and open the cable strain relief (see detail).
2. Connect the power cord to the machine.
3. Install the power cord like shown and fasten it with the cable strain relief.
4. Re-assemble the rear panel and the right side panel.

Do not connect the power cord to the mains yet!

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5. Continue by assembling the coffee module(s) → p. 16.

Prepare coffee modules

Mount cup holder supports

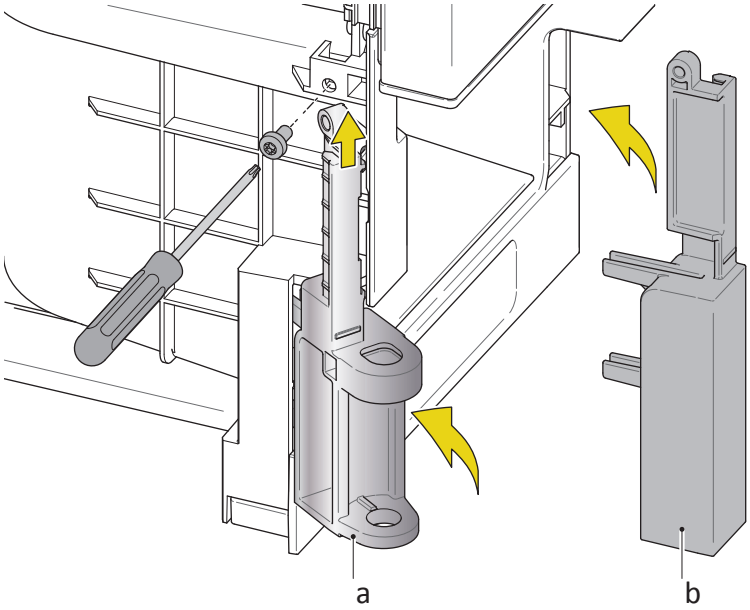


Fig. 13

1. Insert the cup holder support (a) on one side of the coffee module.
2. Slide the cup holder support upwards and screw it on (TX20).
3. Attach the blind cup holder (b) the same way on the other side of the coffee module.
4. Assemble the cup holder support and the blind cup holder on the other coffee module inversely.

Please note that both cup holder supports and blind cup holders are mirror inverted in relation to each other and cannot be assembled arbitrarily.

Assemble coffee modules

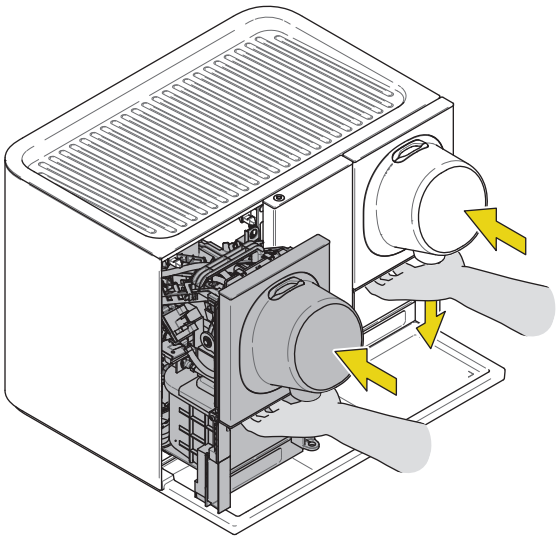


Fig. 14

1. Hold the coffee module on the orange handle. Reach in the capsule ejection opening with the other hand for support.
2. Insert each coffee module into the related slot of the main housing and place it on the guide rails at the bottom.
3. Carefully slide each coffee module into the main housing until stop.
4. To ensure correct positioning, push each coffee module into the main housing and pull it down at the capsule ejection opening.

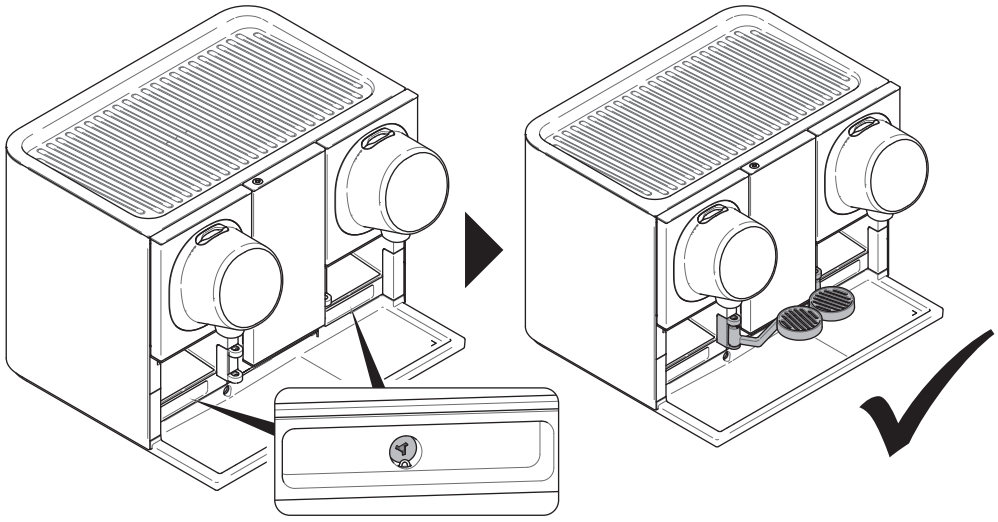


Fig. 15

5. Fasten the Tri-Wing screws to secure both coffee modules.
6. Mount the cup holders.

For correct assembly of the coffee modules, make sure that the supports for the cup holders are placed next to the water tank door.

For Momento 200, perform an insulation resistance test to finish the installation of the coffee module(s)! → p. 112

Set Agent code

This step is mandatory to allow the correct transmission of telemetry data!

The Agent code setting is not part of the setup wizard and must be done manually after assembling and installing the coffee module(s).

The Agent code setting is part of the technician menu → p. 29.

Direct water connection (DWC)

The following describes the requirements in general and the specific requirements of the reinforced water hose that is needed to connect the Direct Water Connection Kit to the clients fixed installation.

Requirements

- External water filter (recommended: BRITA Purity Quell ST)
- G 3/8 Valve with back-flow prevention (mandatory)
- 2 reinforced and flexible water hoses
- DWC Kit G 3/8 to filter 3/8
- G 3/8 Valve to plumbing side
- Line pressure between 2 and 4 bar (a pressure reducer might be needed)

Hose specifications

The reinforced flexible water hoses shall meet the following specifications:

Connection Machine Side	: G 3/8 straight ISO 228-B, including seal
Connection Installation Side	: Default G 3/8 straight, including seal can be adapted to customer needs
Hose diameter	: DN6 (outer diameter Ø 10 mm ± 1 mm)
Hose overall length	: Default 500 mm can be adapted to customer needs
Operating pressure	: 10 bar minimum @ 20 °C
Burst pressure	: 20 bar minimum @ 20 °C
Operating temperature	: 0 °C to +40 °C
Reinforced mesh material	: Stainless steal
Hose construction	: Flexible, allowing a bending radius of 40 mm
Fitting material	: Brass, nickel plated
Sieve	: Sieve with mesh Ø 0.5 mm max. on installation side (mandatory)

DWC Kit variants

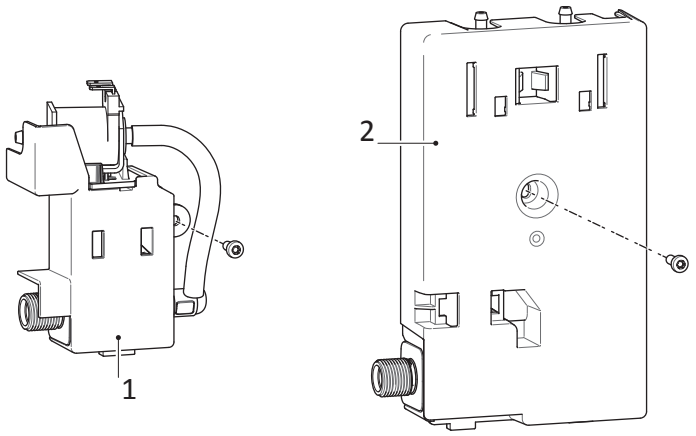


Fig. 16

1) Momento 100/120 DWC Kit

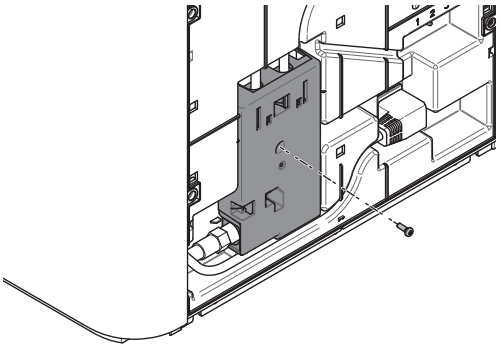
2) Momento 200 DWC Kit

Installation – machine side

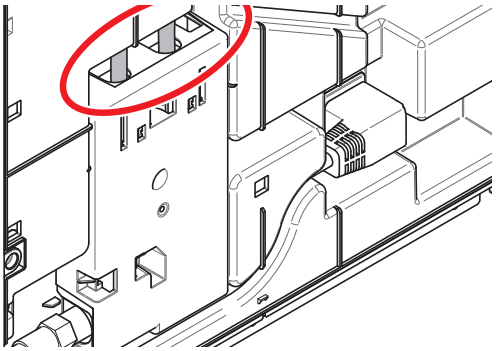
Prerequisites

- Panel rear is removed → p. 51.
- Right side panel is removed → p. 53.

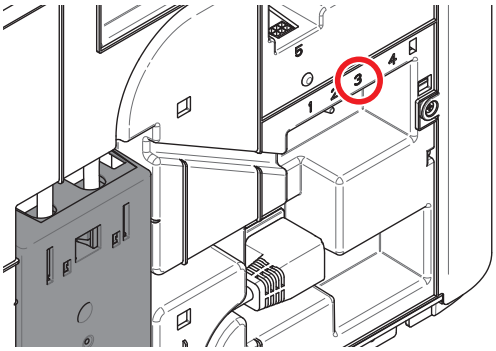
Procedure



1. Mount the DWC Kit using the screw provided.



2. Connect the hose(s) from the water tank(s).

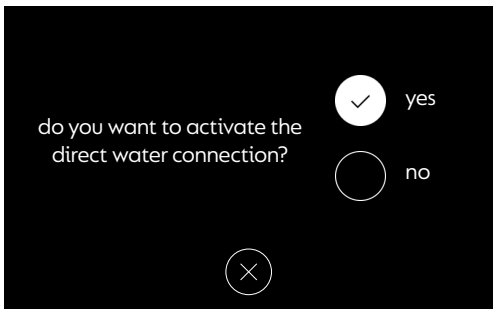


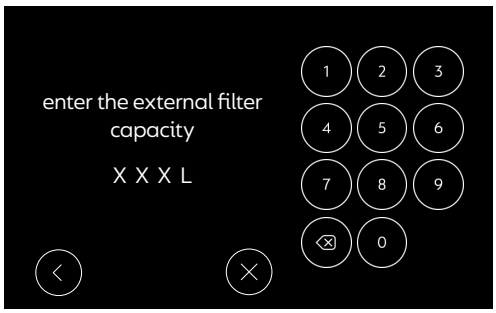
3. Connect the plug from the DWC Kit to the connector number 3 (labelled on the chassis rear side).

4. Continue with the client side installation.

Machine set up

The external filter capacity has to be set when activating the DWC function:

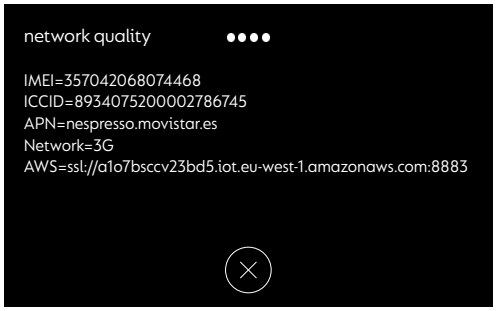




i According to the time zone defined, set the volume in L (liters) or gal (gallons).

Modem connectivity check

The connectivity information is only displayed on the MMI during machine boot-up.



Minimum requirement

Network	3G
Network quality	Minimum of 2 dots

Not meeting this requirements, the telemetry might still work but remote firmware update will not.

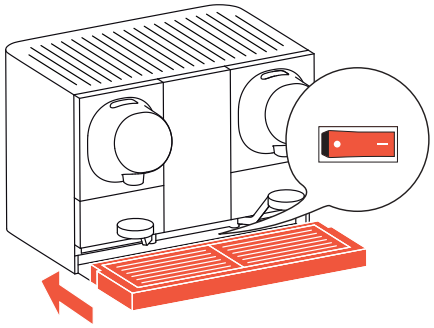
The installation of an external antenna can help finding better coverage as you can place it away from electromagnetic noise or a bit closer to the signal source.

Recommended start position is on machine right panel as close as possible to the upper right corner.

Reboot the machine to check the signal quality again after every time you moved the antenna.

OPERATION

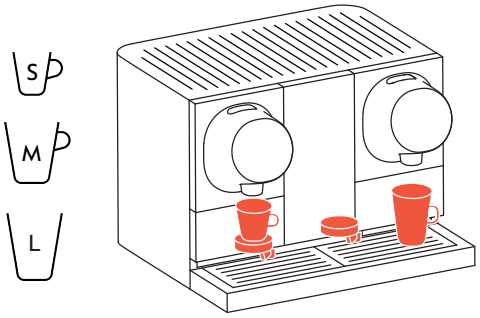
Switching the coffee machine ON/OFF



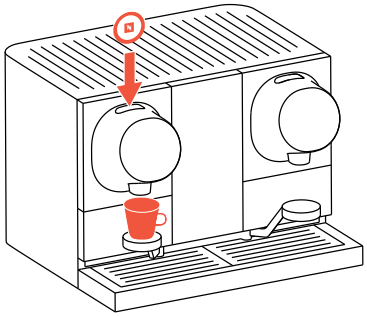
1. Remove the drip tray.
2. Switch the machine ON or OFF.
3. Re-insert the drip tray.

Preparing a beverage

Coffee preparation

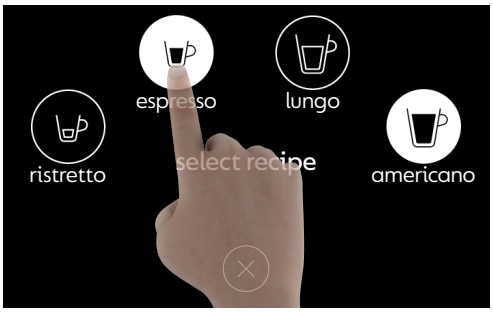


1. Select the right cup (size) for your drink. Use cup support for small and medium cups. Move cup support to the side if a large cup is used.



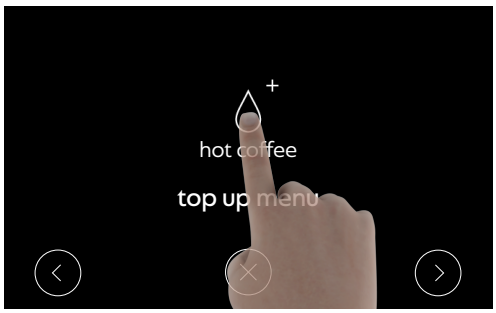
2. Place cup under the coffee outlet. Insert capsule into capsule slot.

i Every time the machine is started, it will do a rinsing to ensure the perfect cup of coffee. Every 2 hours the machine will rinse briefly.

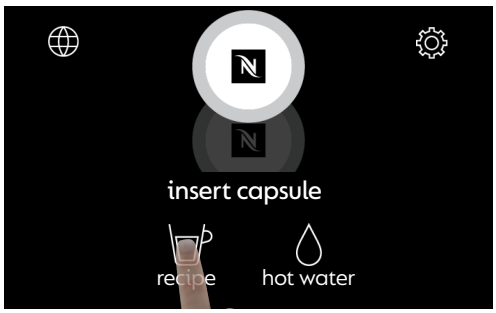


3. Select recipe. Recommended recipes for the inserted capsule are highlighted.

4. The screen displays the preparation whilst the beverage is being prepared. Preparation can be stopped manually by tapping on “cancel” symbol.

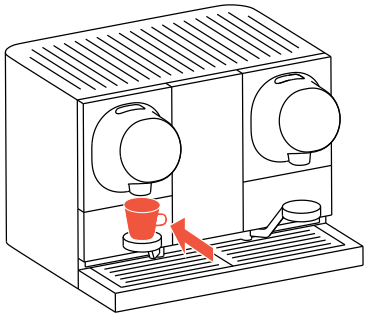


5. After finishing preparation press “hot coffee” symbol to manually start preparation again.

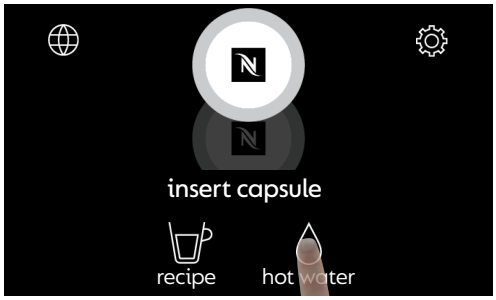


6. Press “recipe” symbol on home screen to access recipe screen directly.

Hot water preparation



1. Place a cup under the coffee outlet.



2. Press “hot water” symbol to fill the cup with hot water.

MMI MENUS

General Information

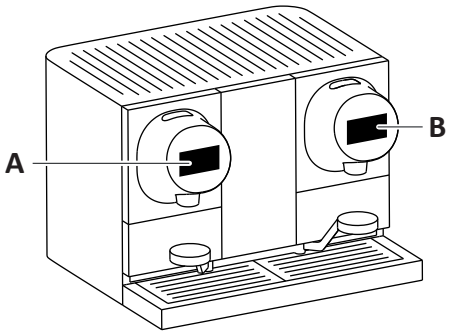
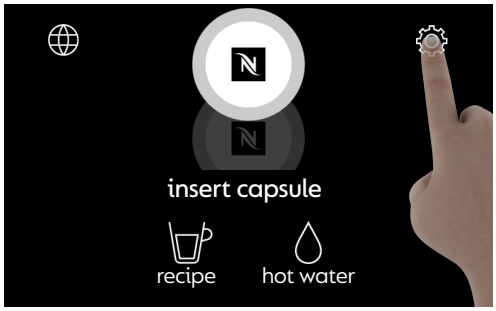


Fig. 17

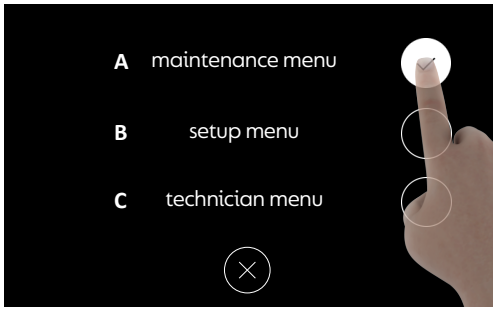
The left control panel (A) controls settings on both coffee heads. The right control panel (B) allows the following settings for the right coffee head:

- Set a different language
- Change the internal filter
- Descale

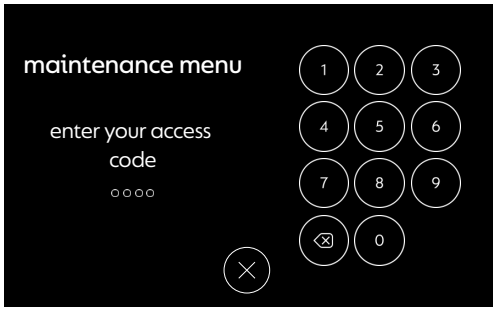
Settings



1. Tap on “settings” symbol to access settings menu.



2. Select a sub-menu:
   A Maintenance menu → p. 24
   B Setup menu → p. 25
   C Technician menu → p. 29



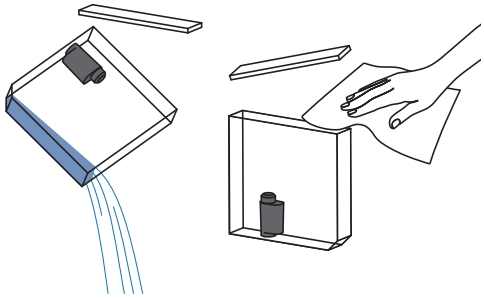
3. All three menus are protected. The default code for maintenance and setup menu is 8888.

Maintenance menu

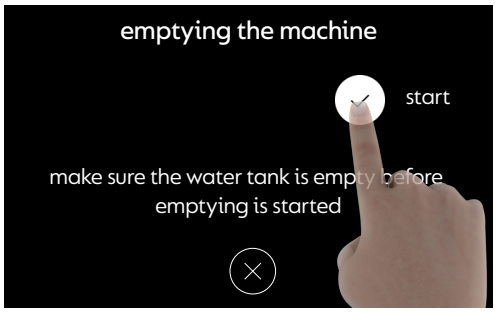
ℹ The right control panel displays fewer options than the left control panel.

1) Change the internal filter: → p. 32
2) Descale the machine: → p. 33
3) Reset the cabinet capsule container counter: Set counter back to 0. Available only on machines equipped with the *Nespresso* base cabinet (optional).
4) Display the connectivity status: Network data are displayed. Available only on machines equipped with telemetry (optional).
5) Display the log: Automatic protocol of software events i.e. to diagnose problems.
6) Display the serial number and software version: Serial numbers and software versions of the corresponding machine parts are displayed.
7) Emptying the machine: For long storage or transportation → p. 24.

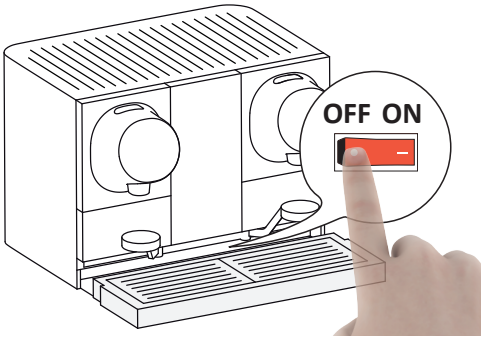
Emptying the machine



1. Remove water tank lids. Empty and rinse with fresh potable water. Dry with disposable tissue or paper towel. Attach lids again. Insert water tanks back to machine.



2. Enter maintenance menu. Select “emptying the machine” menu and press start.



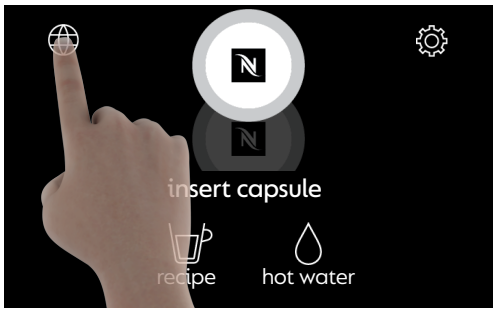
3. Once machine is successfully emptied, turn it off by pressing the ON/OFF button. Unplug the machine.

Setup menu

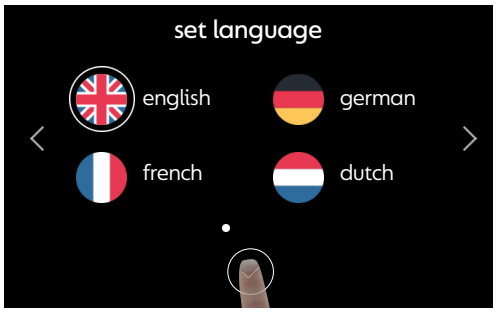
1) Set language: → p. 25
2) Set time: Set time-zone, time and date
3) Set energy saving modes: → p. 25
4) Set temperature: → p. 26
5) Set cup size: → p. 26
6) Set recipe: → p. 27
7) Set access code: → p. 27
8) Set water hardness: → p. 28
9) Reset to factory settings: → p. 28

Setup menu is not displayed on the right control panel.

Change language

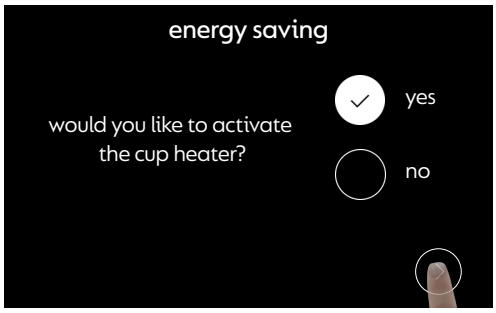


1. Tap on “language” symbol to access language menu.

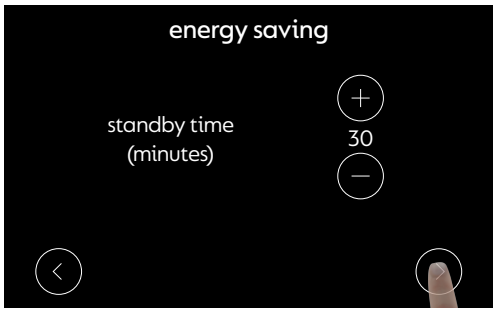


2. Select desired language and tap on “confirm” symbol.

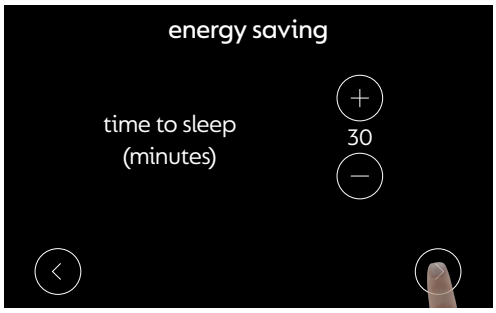
Energy saving



1. Activate/deactivate cup heater and tap on “next” symbol.

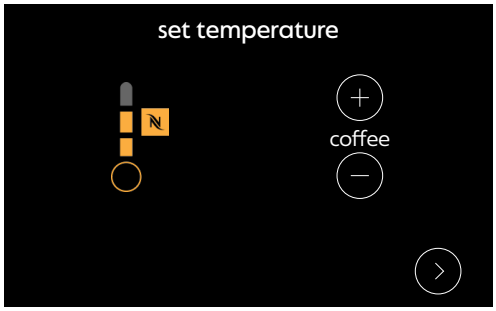


2. Select time after machine enters standby mode. In this mode, machine automatically turns on again if a user gets near the machine.



3. Select time after machine enters sleep mode. In this mode, a control panel has to be touched to turn on the machine again.

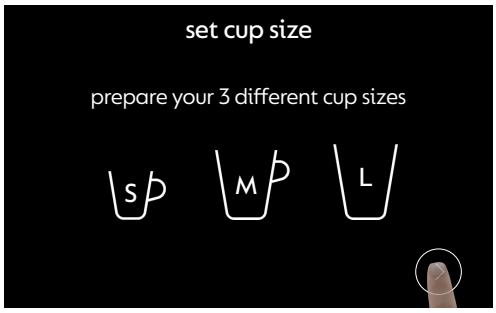
Set temperature



1. Set coffee temperature with +/–. Tap on “next” symbol to proceed to setup menu. *Nespresso* recommends temperature as displayed.

Set cup size

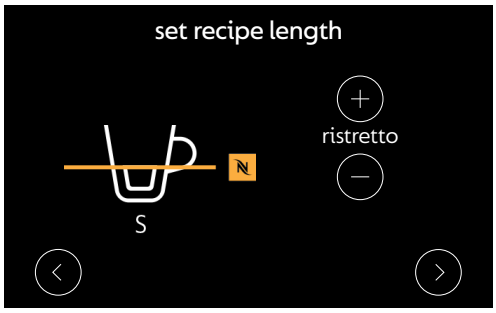
1. Select “yes” if you use *Nespresso* branded cups. If not, select “no”. The machine will help you to define the size of your cups.



2. Have your standard small, medium and large cups available. Tap on “next” symbol, follow instructions on the screen and place smallest cup under coffee outlet.

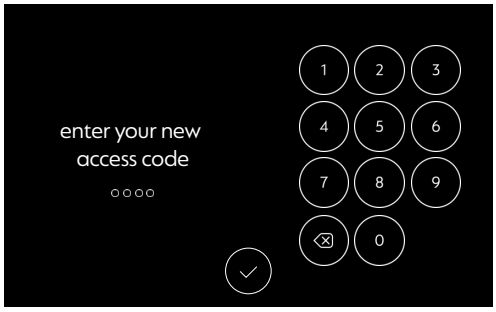
3. Press start to fill cup and press stop when full. Repeat procedure with medium and large cup. You can skip a cup size by tapping on “next” symbol.

Set recipe

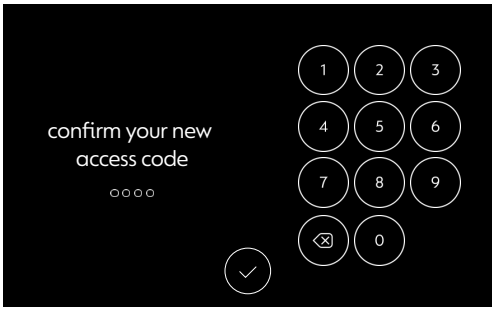


1. Set recipe length for all available recipes with +/–. *Nespresso* recommends recipe length for each recipe as displayed.

Set access code

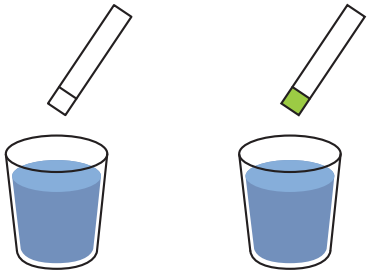


1. The default access code for the maintenance and setup menu is 8888. Enter new access code and tap on “confirm” symbol.

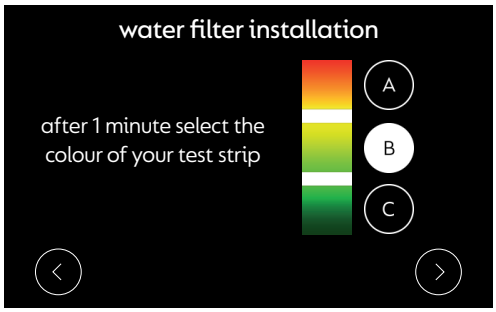


2. Confirm new access code by tapping “confirm” symbol again.

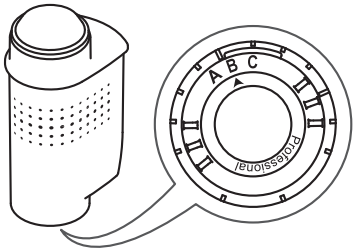
Set water hardness



1. Prepare items as instructed. After 1 minute in water, the test strip is coloured.

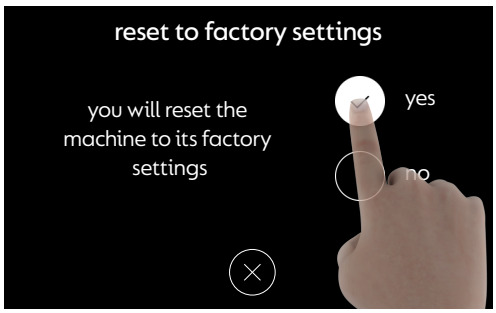


2. Tap on “A”, “B” or “C” symbol to match the colour of your test strip. Tap on “next” symbol to proceed.



3. Adjust the bottom ring on the water filter to “A”, “B” or “C” as recommended.

Reset to factory settings



1. Select “yes” to reset the machine to its factory settings. To cancel, select “no” or tap on “cancel” symbol.

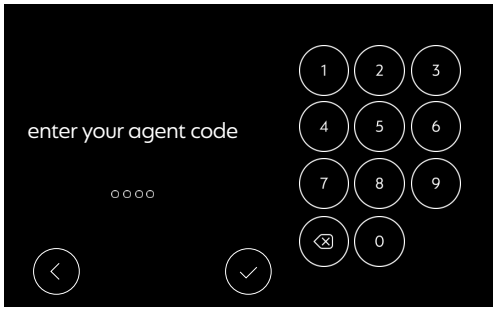
i If machine is reset to factory settings, all customised settings will be lost!

Technician menu

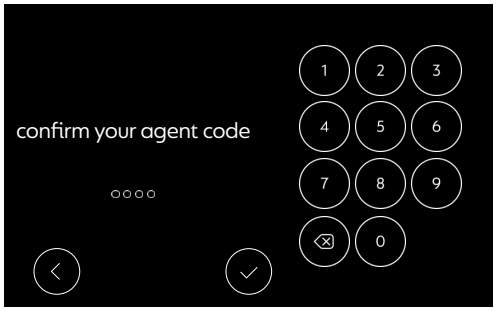
1) Set access code
2) Copy log on SD card
3) Save/load configuration locally
4) Save/load configuration on SD card
5) Set tower link
6) Set cup heater
7) Set direct water connection
8) Set cabinet threshold
9) Change external filter
10) Set agent code: → p. 29
11) Set unknown class
12) Adjust foam parameters
13) Upgrade machine software: → p. 30
14) Component maintenance status: → p. 31

Set agent code

The agent code list is updated and available for download on the “INFOTECH“ section of the Nestlé *Nespresso* business extranet https://business.nespresso.com.



1. Enter the agent code and tap on the “confirm” symbol.



2. Confirm agent code by tapping the “confirm” symbol again.

Upgrade machine software

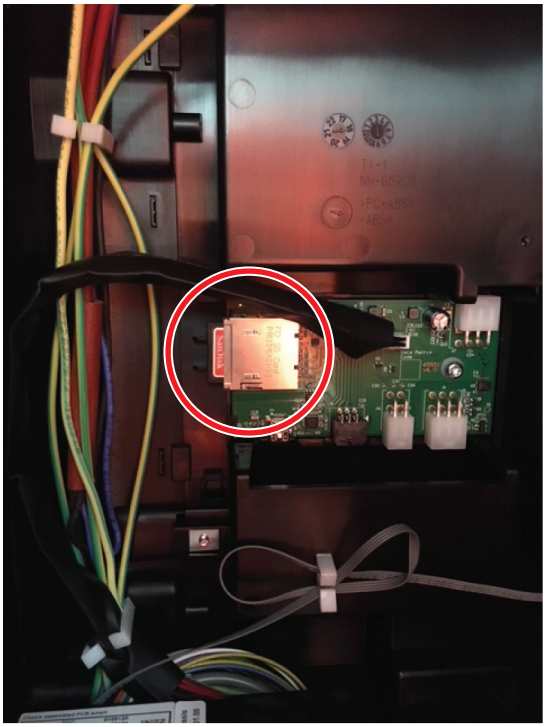
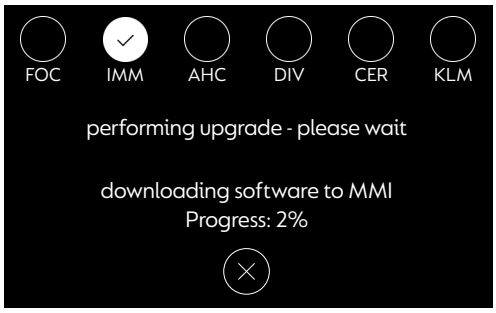


Fig. 18

1. Remove the coffee module → p. 55.
2. Insert a 32GB SD card into the card reader inside the chassis (see photo).
3. Insert the coffee module again.
4. Enter the technician menu and choose “Upgrade machine software“.

On the Momento 200, perform the software upgrade on the master coffee module first. Do not try to upgrade both modules at the same time.



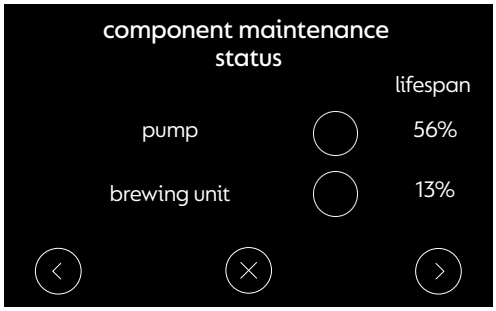
Explanation of abbreviations:

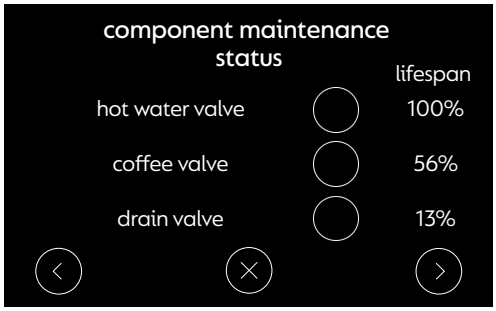
- FOC: Coffee main
- IMM: MMI (interface)
- AHC: Chassis
- DIV: Video drivers
- CER: Capsule recognition
- KLM: Milk

Remember to remove the SD card after the update.

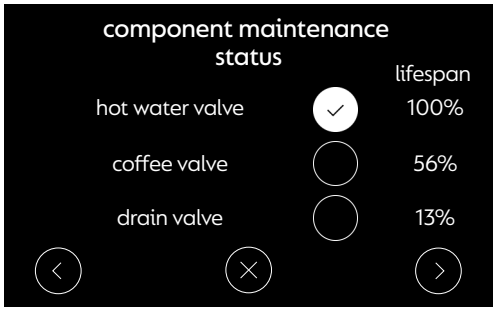
Component maintenance status

Reset maintenance counter

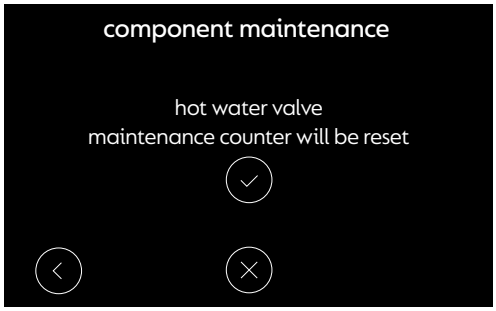




1. Press the “next” symbol to scroll through the components.

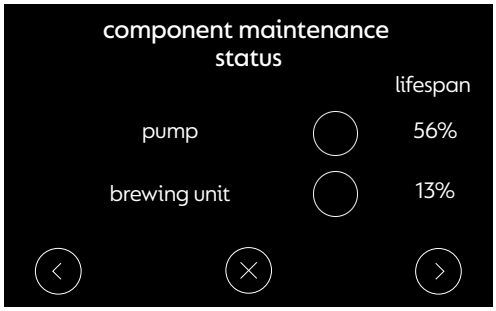


2. Select circle next to a component to reset the maintenance counter.

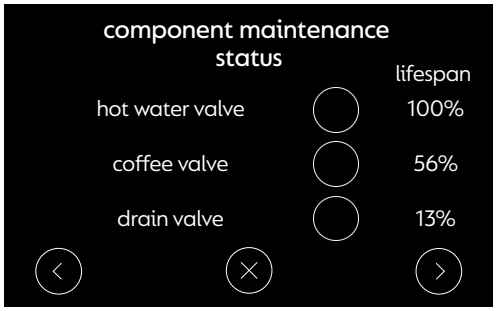


3. Confirm counter reset by tapping the “confirm” symbol.

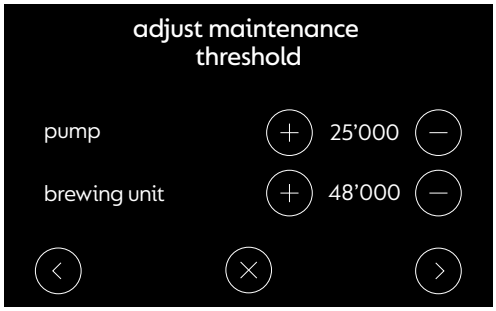
Adjust maintenance threshold



1. Press the “next” symbol to scroll through the components.



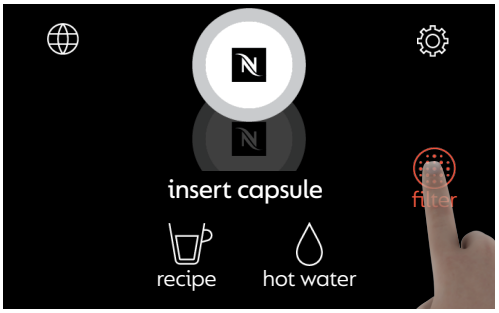
2. On the last page, press the “next” symbol once more.



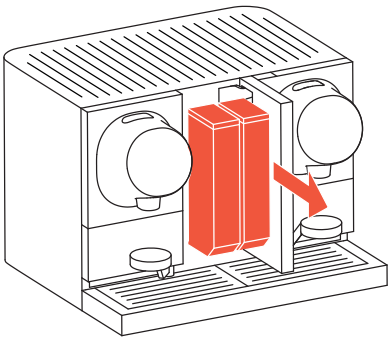
3. Adjust the threshold or press “next” symbol for more components

MAINTENANCE

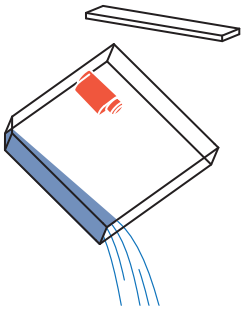
Change internal filter



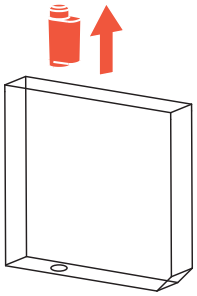
1. When the “filter” symbol appears in red the internal filter should be changed. Tap on red filter symbol and follow instructions on screen. Alternatively, settings menu can be entered to start the internal filter procedure.



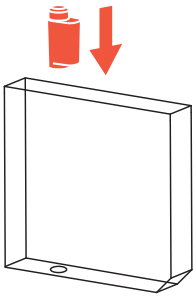
2. Remove water tanks from machine. Clean tanks.



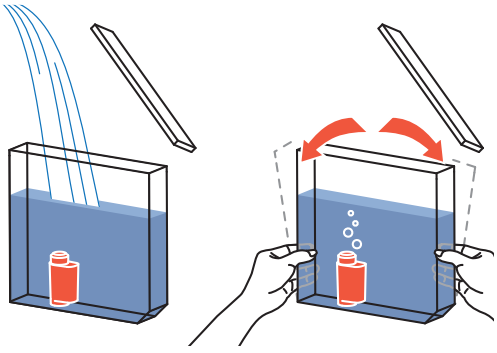
3. Remove water tanks lids. Empty and rinse with fresh potable water.



4. Remove old water filters from water tanks.

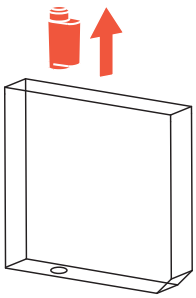


5. Insert new water filters.

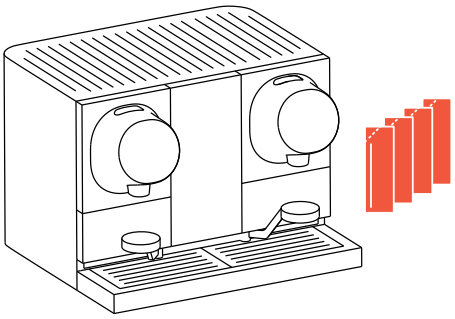


6. Fill water tanks with fresh drinking water and attach lids again. Tilt the water tanks back and forth to remove air bubbles from the filters.

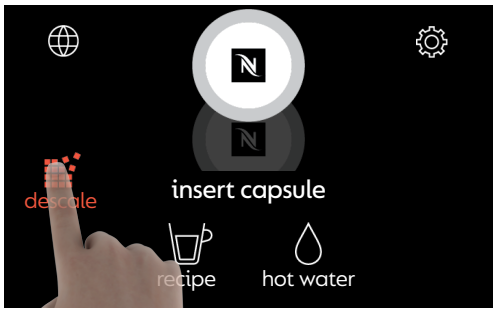
Descaling



1. If the machine is equipped with water filters, always remove them before descaling.



2. The machine requires 4 bags of *Nespresso* liquid descaler (2 for each coffee head).



1. When the “descale” symbol appears in red machine should be descaled. Tap on red descaling symbol and follow instructions on screen. Machine will descale for approximately 10 minutes.
Alternatively, settings menu can be entered to start descaling procedure.

For descaling, use *Nespresso* liquid descaler. Never use vinegar.

TROUBLESHOOTING

This chapter gives useful hints and information for fault finding. It is not intended as a complete list of possible errors and malfunctions.

Preventive maintenance plan

When a used coffee module is fitted to a different machine after having been repaired, the following strategy should be applied:

- Momento 100: Fit a new component if the remaining lifespan is less than 50%.
- Momento 200: Align both coffee modules with the lowest remaining lifespan so both are at the same level.

Components to be replaced periodically

The following are the default lifespans for periodically replaced components:

- Pump: 25’000 cycles → p. 93
- Brewing Unit: 48’000 cycles → p. 97
- Hot water valves: 25’000 cycles → p. 87
- Coffee valves: 25’000 cycles → p. 87
- Drain valve: 48’000 cycles → p. 87

Depending on the customer there might have been different lifespans programmed → p. 29.

Checklist

With an acceptance check in accordance with this checklist, common errors are quickly found and corrected. Therefore, adhere to the sequence of the check list. Repair every occurring error and work the check list until it is completed.

Procedures/issues	Checks / repair works
1. Inspect housing of the coffee machine for visible damage	• Replace damaged or broken housing parts • Replace a damaged power cord
2. Inspect accessory parts (milk container, water tanks, capsule containers, drip trays)	• Replace incomplete, damaged, broken or missing accessories • Clean dirty or bad smelling accessory parts (use only detergents that do not affect plastic) • Clean and polish corroded contact surfaces of drip trays • Remove filter cartridges from water tanks
3. Fill water tanks	• Check tightness of water tank valves • Replace leaking water tank(s)
4. Prepare coffee machine for operation and switch on mains switch	If stand-by button is not lighted red and no cup lighting is visible for some seconds: • Check mains voltage • Check power cord • Check thermofuses • Check secondary voltages of transformer
5. Turn machine on	• Check display for messages
6. Prepare coffee (both coffee outlets), hot water and steam	• Check display for messages • Check capsule insertion and ejection • Check if coffee machine is leaking

7. Check the coffee unit counters	• If machine has reached 48’000 coffees (per extraction unit), replace extraction unit parts → p. 102.
8. Descale coffee machine if necessary (→ p. 33)	
9. Save statistic data on PC (refer to separate user manual)	
10. Clean coffee machine (see user manual)	
11. Touch screen does not react / frozen	• Is there something stuck on screen preventing detection? • Try reboot process Power OFF/ON
12. Screen low light / black / too bright	• Is machine placed besides a sunny window?
13. Screen is black	• On Momento 200, is the other screen black as well ? • Is machine powered ON? Try reboot process. Power OFF/ON
14. No light during brew	• LED is not clogged by dirt – coffee residues • Try reboot process. Power OFF/ON
15. Impossible to insert capsule / machine stuck	• Foreign object or capsule in slot?
16. Capsule lid stays opened after requesting brewing	• Try “force brewing”. If BU closes. Sensor (coil) defective
17. Wrong blend identified	
18. No coffee blend identified / incorrect recipe recommendation	• Known bug on field test machines. Inform customer to press screen to switch to recipe selection. • Capsule correctly inserted and foil not deformed? • Is camera optical signal clogged by dirt?
19. Stuck in welcome screen	• Trigger signal by inserting finger in slot, MMI display should move to recipe selection.
20. Always on recipe screen (no welcome screen)	• Place hand above capsule slot. Screen should move to welcome: • Check ambient light condition (machine placed in a sunny spot can lead to signal disturbances)
21. Lid stays closed	• Switch OFF/ ON, lid should move.
22. Leak of waste water under machine	• Check water tank connection and valve • Check drip tray overfilling
23. Cup holder falling off	• Left / right not mixed up
24. Vibration during brewing	• Cup holder properly in place? • Possible improper fitting of water pump inside machine. Technician to visit machine and press clip to secure pump on bracket – FIELD TEST ONLY
25. No coffee delivered	• Water in water tank? • Is water tank clean of residue? • Is water tank valve stuck? Try to press valve with finger and confirm water is flowing
26. Water in tank slot	• Is tank properly clipped? • Is water tank valve stuck? Try to press valve with finger and confirm water is flowing and stopping when released?
27. Door does not close	• Water tank inserted in wrong orientation

28. Door does not lock	• Visual status of key for damage (Potential shipment of new set of keys)
29. Spillage of water when water tank is pushed inside machine	• Presence of lid on water tank
30. Coffee splash in cup	• Coffee outlet is clean / not clogged by coffee
31. Water flowing in the capsule container	• Check deformation of capsule foil
32. Product too cold / hot	• Perform coffee temperature setting adjustment (remotely via client or telemetry)
33. Heating plate too hot / melting item on heating plate	• What is material of melted item? Confirm it is abnormal for 60 °C
34. Heating plate too cold	• Check status and perform cup heater enabled in settings (remotely via telemetry)
35. Heating plate scratched / deteriorated	• Cleaning agent used contains acid?
36. Machine not connected	• Check main power cable • Go to Maintenance Menu and check signal strength and connectivity status. In case of signal issue, try to move machine. Consider fitting an external antenna
37. Water tank does not fill automatically	• To activate the direct water connection valve it is necessary to insert the water tank already filled up • Check in settings that DWC is ON
38. Water flood with direct water connection	• Has the machine been switched ON with water tanks not inserted? (Being corrected for SOP)
39. Recipe in cup quantity incorrect	• Perform recipe set up with customer in maintenance menu

Display Messages (Errors)

Operational alerts

Alert type	Display message	Potential solution
Warning	Warning: error code #, please contact machine operator.	Switch OFF/ON the machine. If warning message persists, contact your machine operator.
Warning	Warning: Momento 200 is cooling down, please wait.	Wait for the machine to cool down. If warning message persists, contact your machine operator.
Warning	Warning: Brewing unit jam: please press (x). If that did not work, contact machine operator.	Press (x) at the bottom of the screen. If that did not work, check if something is stuck on the machine brewing unit. If so, unplug the machine, try to push down the obstructed object with a tool (e.g. spoon). If problem persists, contact machine operator.
Warning	Warning: Direct water connection issue: please contact machine operator.	Switch OFF/ON the machine. If warning message persists, contact your machine operator.
Warning	Is capsule container fully inserted?	Magnet not present on the bottom / back of the capsule container. If missing, change capsule container
Warning	Is capsule container full?	Empty capsule container and keep it removed more than 5 seconds to allow counter reset.
Warning	Is drip tray fully inserted?	Cleanliness of metallic contacts (no dirt or rust on the contact). Damaged metallic contacts
Warning	Is drip tray full?	Check that the line between the metallic contacts is dry (presence of water drops = sensor thinks the drip tray is full)
Warning	Is water tank empty on the side the warning is displayed?	Water tank cleanliness (for scale and bacterial deposit). Clean the water tank, in particular the rear wall, fill and refit.
Warning	Is water tank fully inserted (clicked in position)	Is metallic part still present on the back of the tank? Water tank cleanliness (for scale and bacterial deposit). Clean the water tank, in particular the rear wall, fill and refit.
Warning	Pump too hot	Wait for machine too cool down if a lot of products have been prepared successively
Warning	Momento is cooling down, please wait	Ask how many coffee were consumed in a row? It is normal that the pump needs to cool down if users are consuming a lot of coffee back to back. Ask about the environmental conditions (machine at room temperature?)
Warning	Brewing unit jam: please contact your maintenance	Top lid is open? - If yes, check module 2. - If no, try to switch on/off the machine. Lid should move at machine switch on. Check visually if a capsule is stuck in the machine slot. If so, try to push the capsule in the brewing unit with a long tool, then switch OFF/ON the machine to eject the capsule at machine switch on.

Warning	Direct water connection issue: please contact your maintenance	Is there an issue and the water is overflowing? (DWC valve is defective and water tank is overflowing) --> Water is constantly flooding into the water tank (user can open the door and check that) + presence of water in the tank slot. If yes, close the water input. Is there an issue and the water tank is empty? Check if DWC external kit valve is open. Remove water tank and clean it (it is possible that the water tank level sensor value indicates to the DWC that the water tank is full).
Maintenance warning	Warning: Machine service to be performed. Please contact machine operator.	Please contact your machine operator to arrange machine maintenance
Maintenance warning	Warning: Please clean the water tank.	Please clean the water tank as described in the user manual
Maintenance warning	Warning: Please clean the water tank	Clean water tank daily to remove dried water deposits
Error code 0001	Coffee Main communication not working	Ask the user to switch on/off the machine. If problem persists, technician is needed
Error code 0002	MHBU communication not working	Ask the user to switch on/off the machine. If problem persists, technician is needed
Error code 0003	Chassis communication not working	Ask the user to switch on/off the machine. If problem persists, technician is needed
Error code 0005	Coffee main extraction interrupted due to an error	
Error code 0006	Error on Coffee Main: <number>	
Error code 0007	Invalid video data	
Error code 0008	Milk not available	
Error code 0009	Unknown error on Coffee Main (error not reported)	
Error code 0010	Battery voltage is low	Send technician to replace lithium battery
Error code 0011	Protocol version mismatch	
Error code 0012	Power grid issue	
Error code 113	Flow detected during priming	

Other machine issues

Problem	Potential solution
The language displayed is not appropriate	Modify language settings in your machine setup menu. If problem persists, contact your machine operator.
The machine enters in sleep / standby mode too quickly	Modify energy-saving settings in your machine setup menu. If problem persists, contact your machine operator.
The temperature of Momento 200 beverages is too hot / too cold	Modify temperature settings in your machine setup menu. If problem persists, contact your machine operator.
The length of Momento 200 beverages is too long / too short	Modify cup size / recipe length settings in your machine setup menu. If problem persists, contact your machine operator.
Momento 200 seems to function, yet no water / coffee comes out of the coffee head	Ensure there is water in the machine's water tank(s). Ensure there is no air stuck in the water filters. To do that, fill the water tanks with fresh drinkable water, introduce the filters upside down, and ensure all air inside the filters is out, place your filters on the water tanks and try again.
Cup heater does not work	Turn on cup heater. See → p. 25 to turn the cup heater ON/OFF.

REPAIR

General

This chapter contains special safety and assembly notes. Disregarding them may lead to injuries and damages.

The disassembly/repair procedures are presented as step by step instructions:

- The position numbers of the parts correspond to the spare part lists (→ p. 114).
- Refer to exploded drawings (→ p. 114) for detailed drawings of spare parts.
- All procedures are based on the double coffee/milk chassis (Momento 200).

M 100 Differences regarding the single coffee chassis (Momento 100) are mentioned in a block like this if required.

Basic repair instructions

- Hold a towel ready to wipe away leaking water.
- Parts of the chassis and components of the coffee machine are connected screwless with latches. When loosening these connections, proceed with care and patience to avoid causing any damage.

- With each disassembly and repair (not for a simple module swap),
  - accomplish an internal cleaning,
  - perform a protective earthing (PE) resistance (→ p. 110) and an insulation resistance test (→ p. 112) when finished.

Only use original spare parts from your official supplier for maintenance and repair work.

Safety information

Risk of fatal electrical shock and fire!
Mains voltage inside the coffee machine.

- **Unplug the appliance before cleaning.**
- **Never clean, wet or immerse plug, cord or base station in any fluid.**
- **Disconnect the power plug before disassembly – the appliance must be free of voltage.**

Risk of damage!
Changing wiring arrangement arbitrarily during reassembly can cause

- **electromagnetic interferences,**
- **squeezed wires and insulation defects,**
- **insulation problems if low and high voltage wires are not separated,**
- **damage to the electronics.**

Protective measures:

- **Refer to special wiring instructions in assembly tips.**
- **Refer to the wiring diagrams when reconnecting wires (→ p. 94).**
- **Make sure that wires do not touch hot parts – use existing cable clips.**

Risk of damage!
The displays and PCBs are sensible to electrostatic discharge.

- **The service technician must be earthed using a grounding strap, ESD gloves or similar safety measures.**

Danger of burns!
Hot parts and water pressure inside the coffee machine (particularly in the thermoblocks).

- **Let the coffee machine cool down before cleaning or disassembly.**
- **Do not touch any hot parts while checking for leakages.**

Possible eye hazard!
The capsule recognition module emits an invisible laser beam.

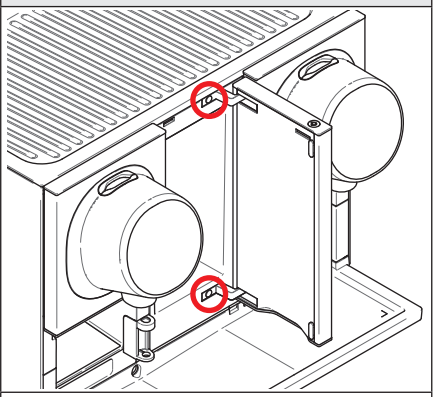
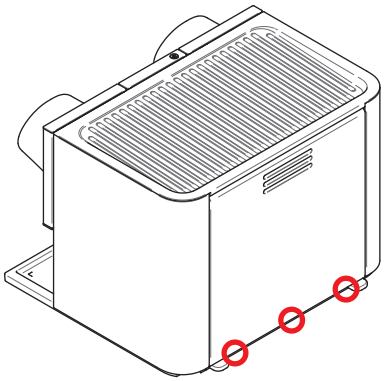
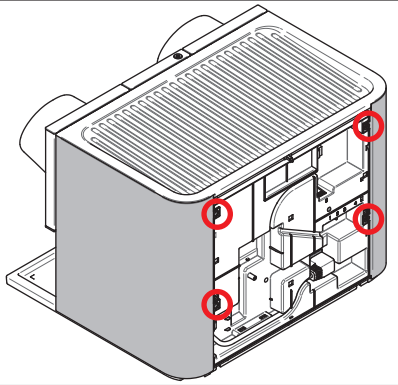
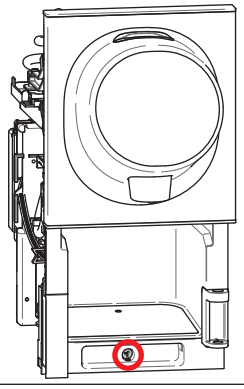
- **Do not stare into the laser beam accidentally or direct it towards other people around you.**
- **Do not put reflective objects in the path of the laser beam.**
- **Do not remove the PCB from the capsule recognition module and look on the powered laser diode with optical equipment such as a magnifying glass or a microscope.**

Danger of flooding in regard to the direct water connection!

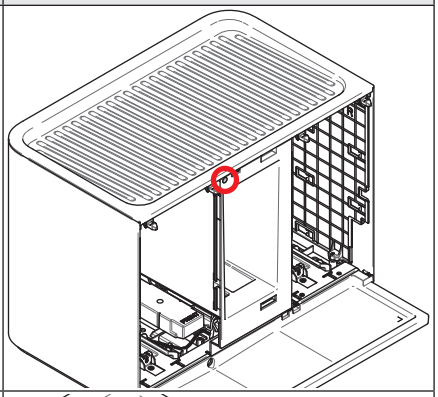
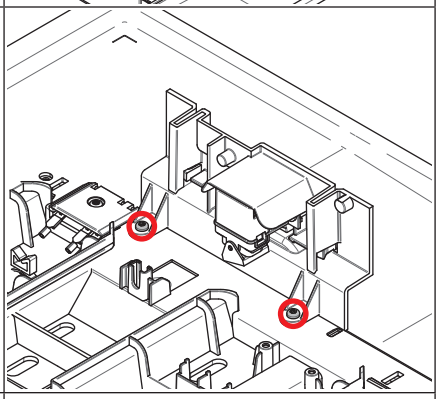
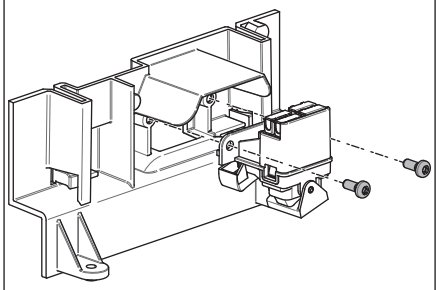
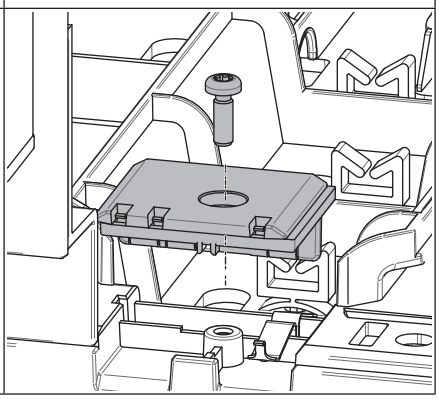
- **During repair of the coffee machine on-site, turn off and lock stop valve of the direct water connection.**
- **Attach a danger sign to prevent unauthorised operation.**

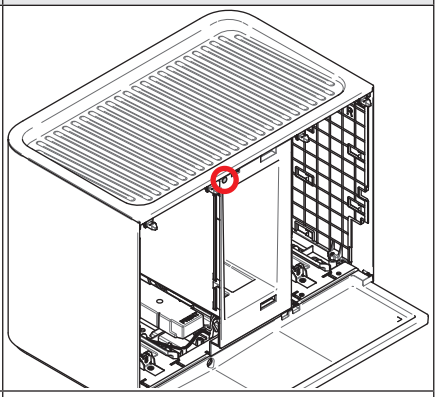
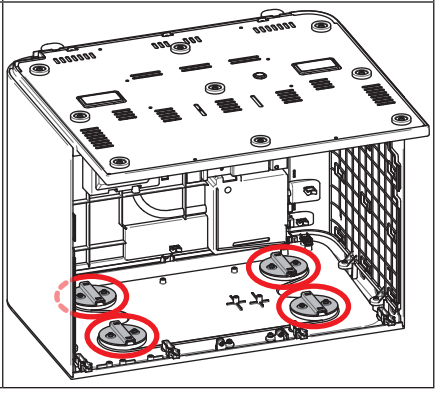
i A class 1/I laser product is safe under reasonable foreseeable conditions of operation and is not harmful to the eyes provided that the product is used and maintained correctly.

Screw connections – chassis

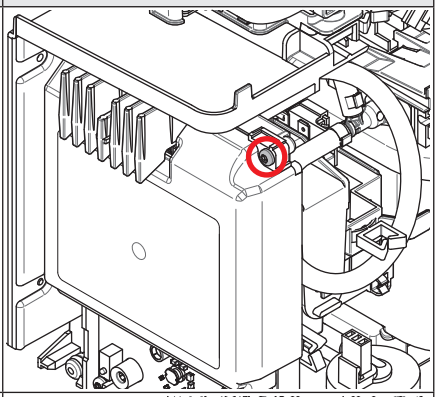
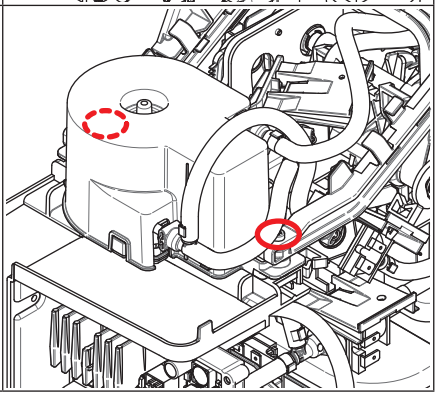
Screw connection / type	Torque	Position
Water tank door fixing screws (2×) Crosshead screw PT 40 × 12	N/A	
Panel rear fixing screws (100:2×/200:3×) Crosshead screw M4 × 12	N/A	
Side panel fixing screws (2× per side) Crosshead screw M4 × 12	N/A	
Coffee module fixing screw (1×, fixed by locking ring) Tri-Wing security screw dia. 4 × 30	15.3 ± 0.5 kgf cm 150.0 ± 4.9 Ncm 13.3 ± 0.4 lbf-in	

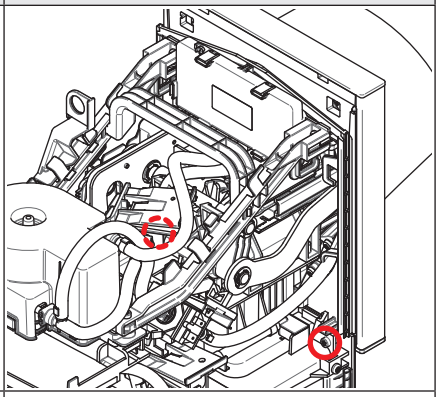
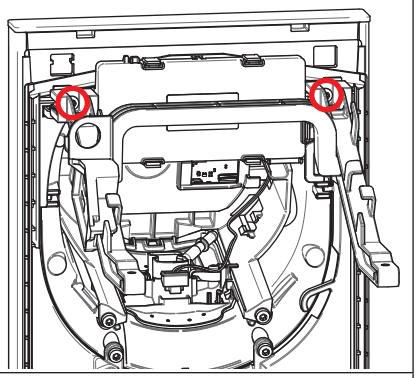
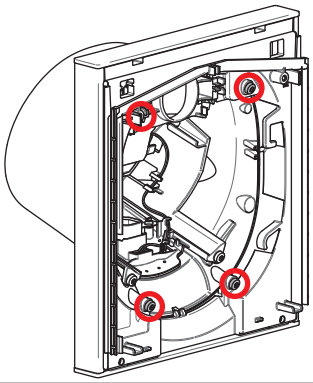
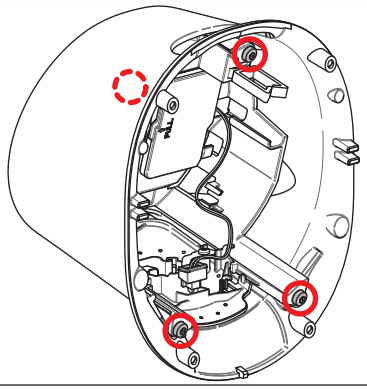
i A Tri-Wing screw head looks like this:

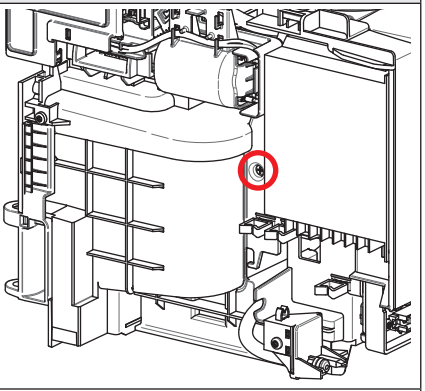
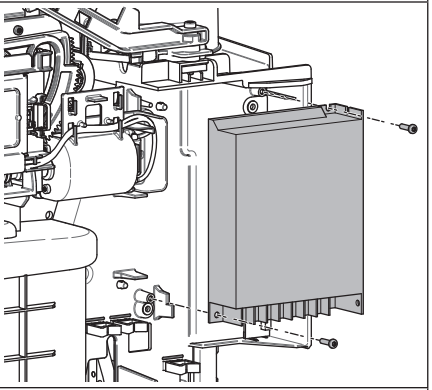
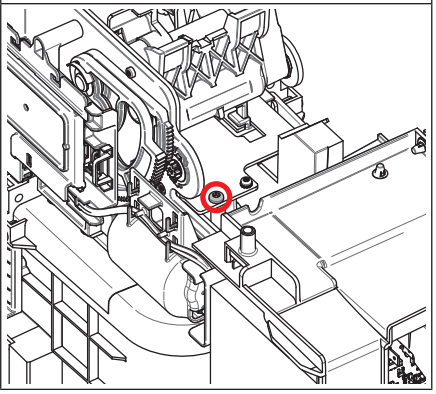
Screw connection / type	Torque	Position
Model 200 only Water tank slot fixing screw (1×) Crosshead screw PT 40 × 12	N/A	
ON/OFF switch support fixing screws (2×) TX 20 PT 40 × 16	N/A	
ON/OFF switch fixing screws (2×) TX 20 PT 40 × 10	N/A	
Drip tray contact plate fixing screw (1×) TX 20 PT 40 × 10	N/A	

Screw connection / type	Torque	Position
Model 200 only Water tank slot fixing screw (1×) Crosshead screw PT 40 × 12	N/A	
PTC heater support fixing screws 2 screws per heater (100:4×/200:8×) TX20 M4 × 10 with washer	N/A	

Screw connections – coffee module

Screw connection / type	Torque	Position
Main PCB cover fixing screw (1×) TX20 K40 × 12	N/A	
Cross beam to chassis BU fixing screws (2×) TX20 M4 × 30	N/A	

Screw connection / type	Torque	Position
Head base plate fixing screws (2×) TX20 M4 × 20	N/A	
Cross beam to head base plate fixing screws (2×) TX20 K40 × 12	N/A	
Front cover fixing screws (4×) TX20 M4 × 12	N/A	
MMI assembly fixing screws (4×) TX20 M4 × 12	N/A	

Screw connection / type	Torque	Position
Pump fixing screw (1×) Crosshead screw M4 × 20	N/A	
Power supply fixing screws (2×) TX10 K30 × 12	N/A	
Brewing unit fixing screw (1×) TX20 K40 × 12	N/A	

Tools and accessories

With the following tools, all described disassembly and repair work can be done:

- Torque screwdriver (→ p. 42)
- Crosshead M4 bit or screwdriver
- TX20/TX10 bit or screwdriver
- Tri-Wing bit or screwdriver
- Flathead screwdriver
- (Angled) Pointed pliers
- Towel, cleaning utensils

Simple repair work

The following machine parts can be removed and replaced without prior disassembly of the machine:

- Drip tray (B79/A76)
- Drip grid (B82/A78)
- Cup holder (left:B84/right:B89,A80)
- Capsule container (C97/C104)
- Water tank (B58/A55)
- Internal water filter
- Coffee Module

General disassembly

Removable parts

Unplug the machine from the mains before disassembly – appliance must be isolated!

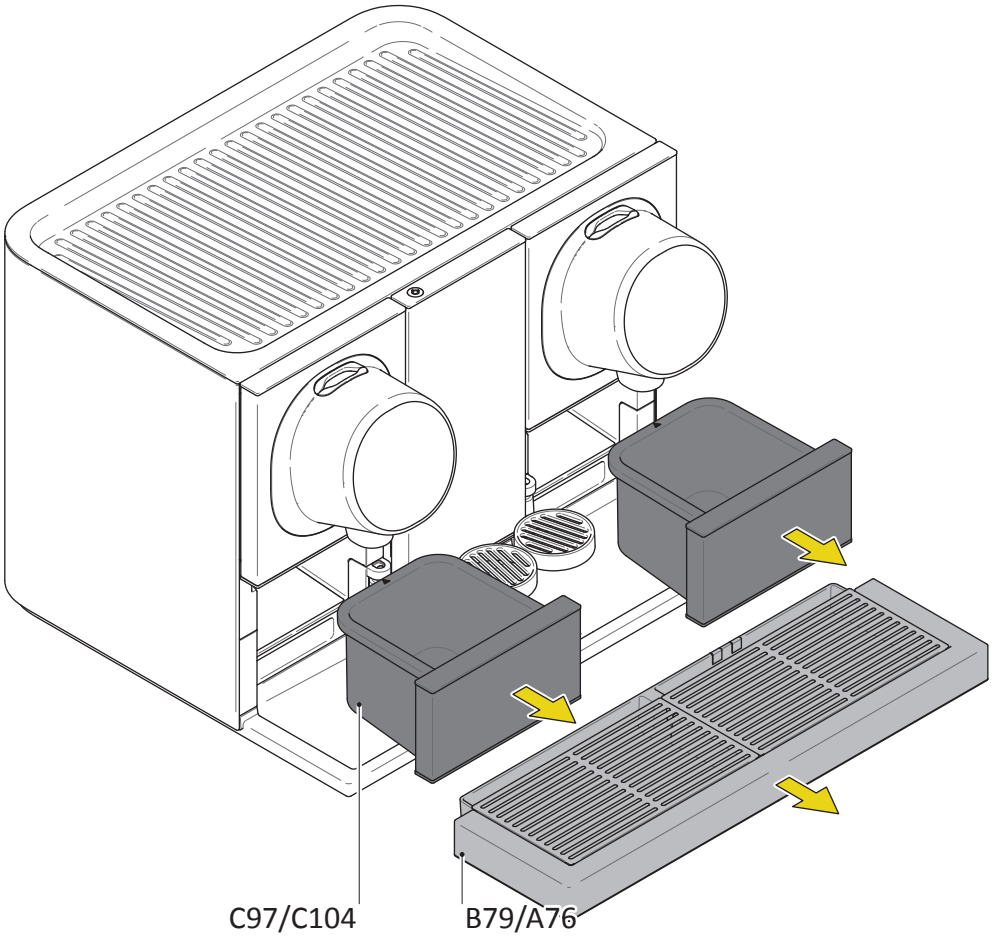


Fig. 19

1. Switch off the machine and unplug the power cord.
2. Remove the drip tray (B79/A76) and capsule containers (C97/C104).

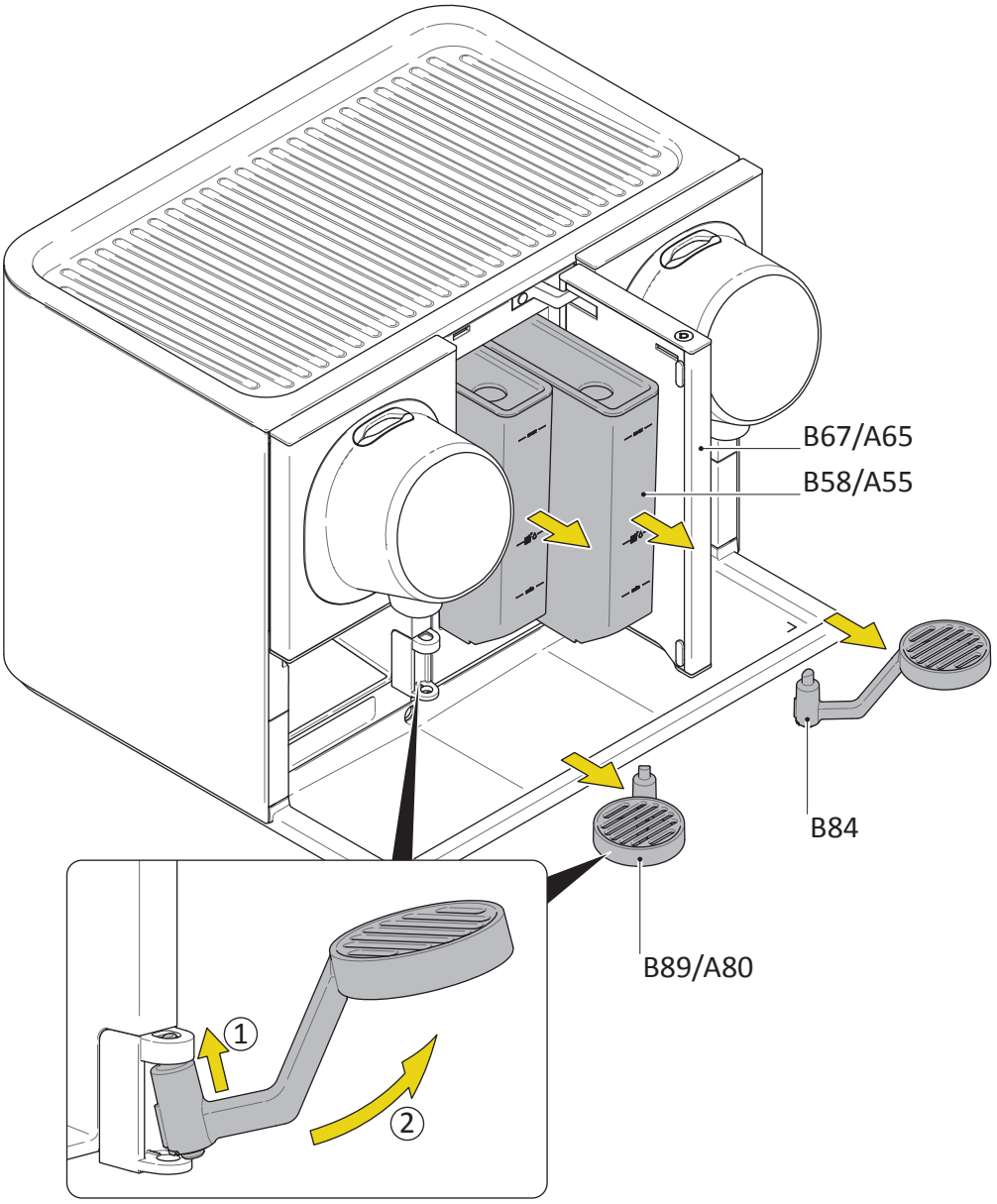


Fig. 20

3. Open the water tank door (B67/A65) with its key and remove the water tanks (B58/A55).
4. Remove the cup holders (left:B84/right:B89,A80 – see detail) by moving them up first and then swing them out.

Remove water tank door

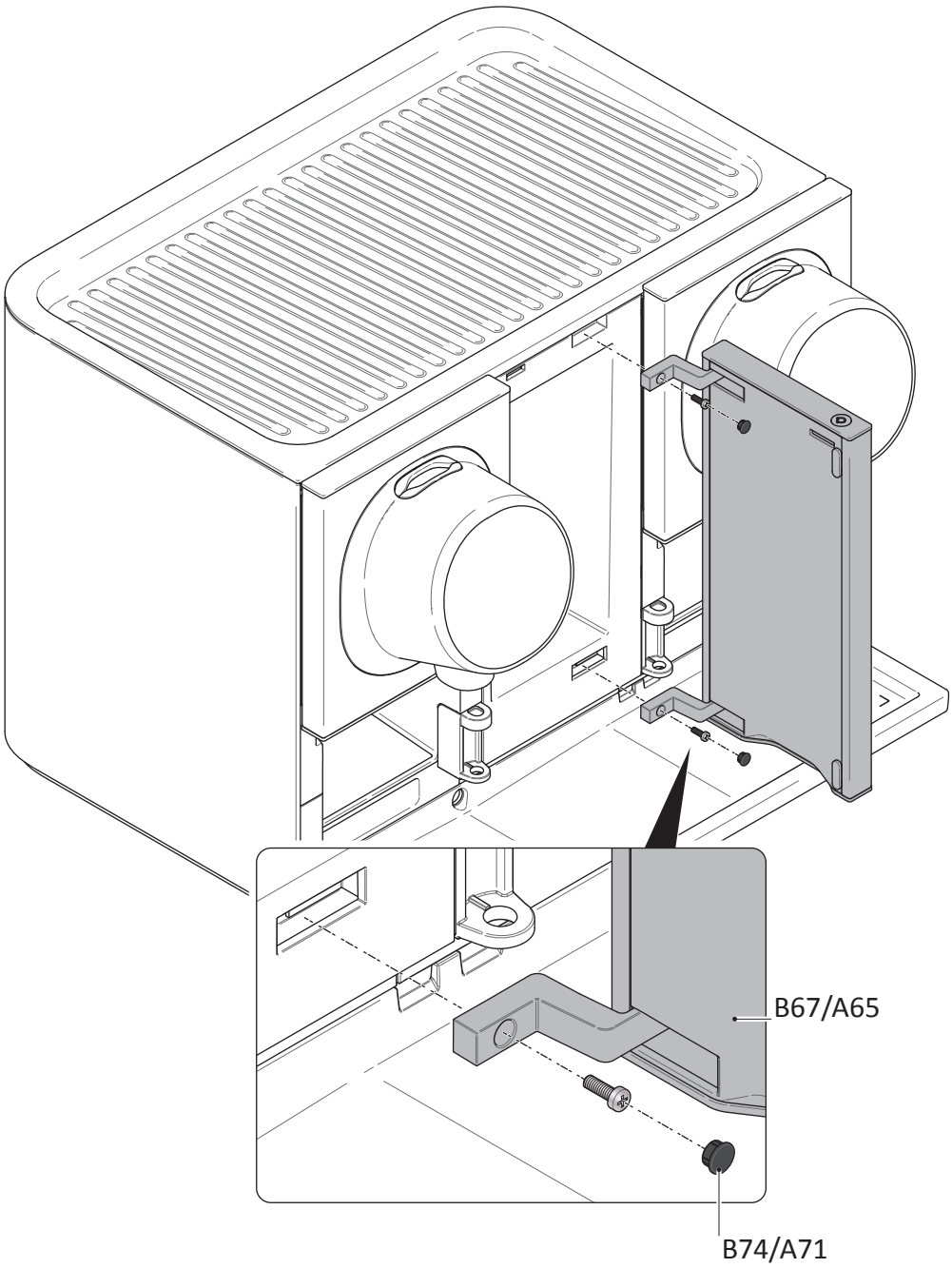


Fig. 21

1. Open the water tank door (B67/A65) with its key.
2. Remove the screw covers (B74/A71) with the help of a small flathead screwdriver.
3. Loosen 2 screws (crosshead) on the door hinges.
4. Remove the water tank door.

Assembly tip

- Do not forget to put back the screw covers (B74/A71).

Remove panel rear

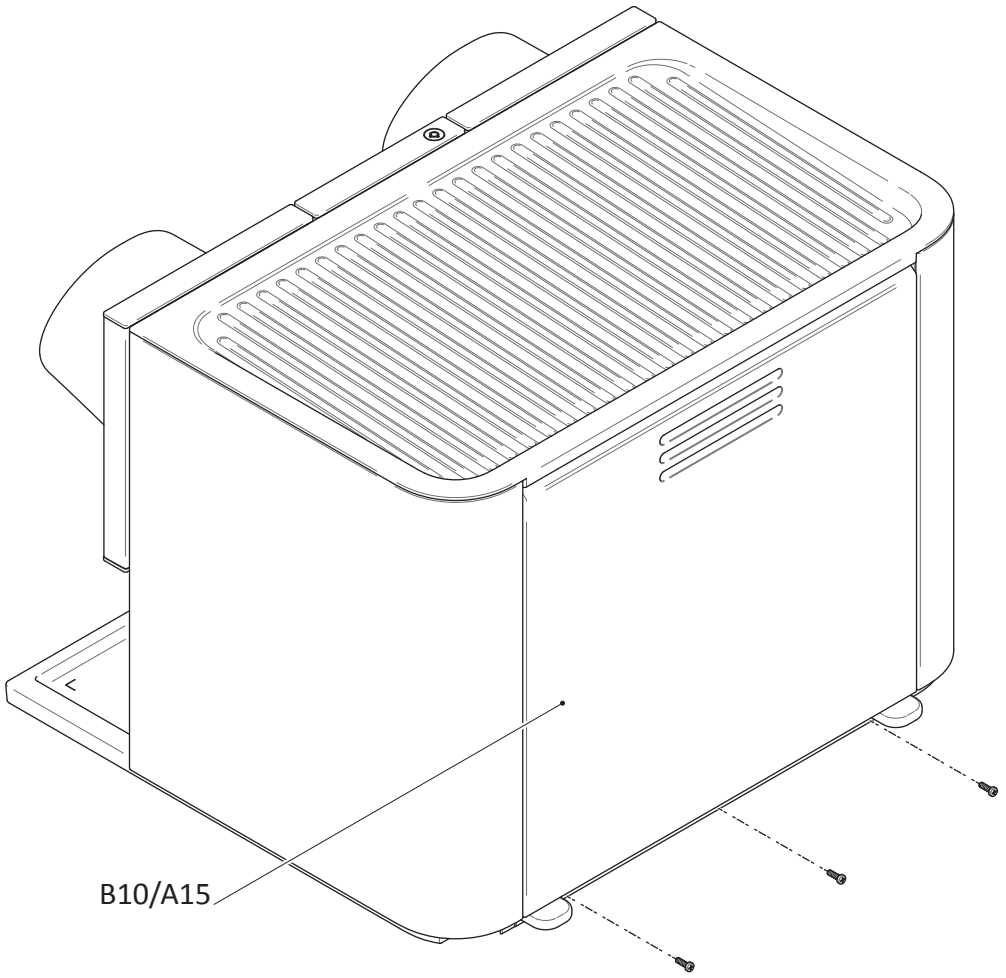


Fig. 22

1. Loosen 3 screws (crosshead) on panel rear (B10/A15).

M 100 Momento 100 has only 2 screws.

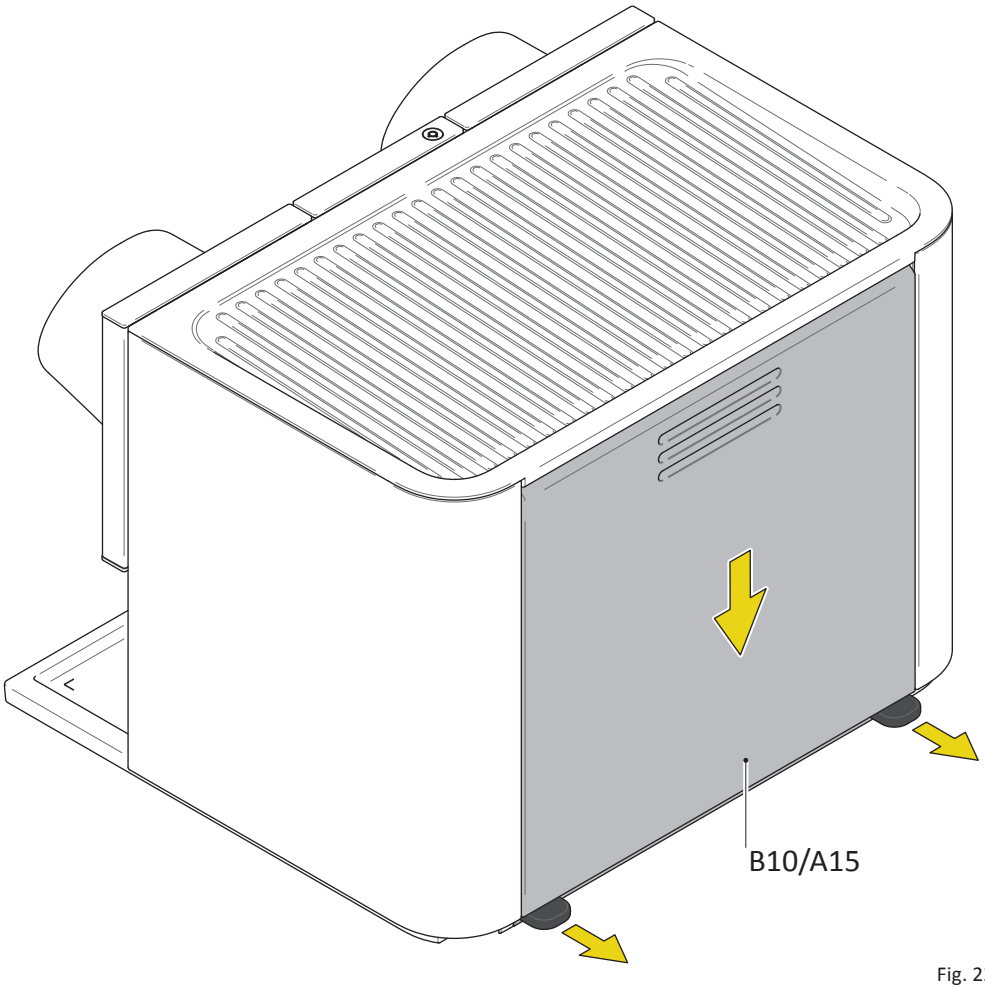


Fig. 23

2. Pull panel rear (B10/A15) down and away from the machine at the same time, using the wall bumpers on the bottom of the panel as grip.
3. Remove panel rear (B10/A15).

Assembly tips

- Slide in the guides on top of panel rear (B10/A15) first.
- Slide the panel slightly down again until all hooks fall into place.
- Slide the panel up again to snap it in and fix it with the screws.

Remove side panel

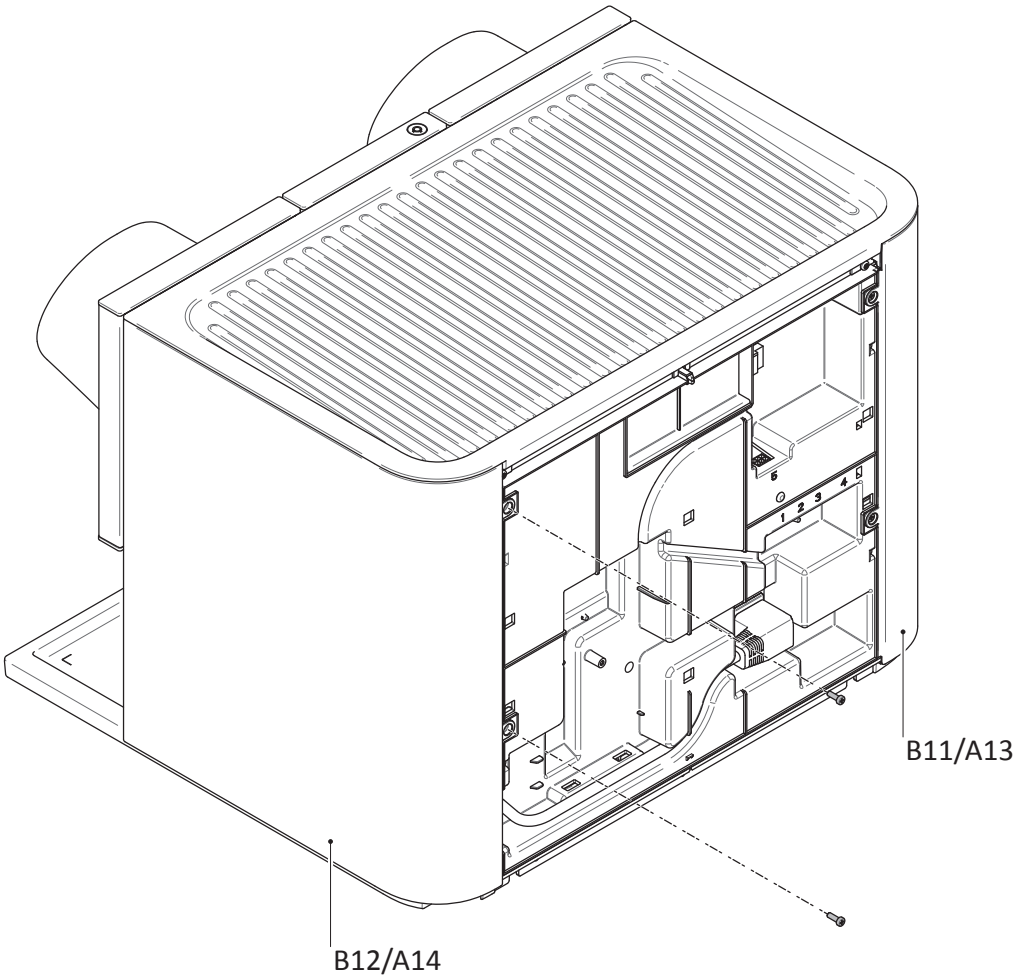


Fig. 24

Prerequisites

- Panel rear is removed → p. 51.

Procedure

1. Loosen 2 screws (crosshead) from the side panel (left:B11,A13/right:B12,A14) you wish to remove.

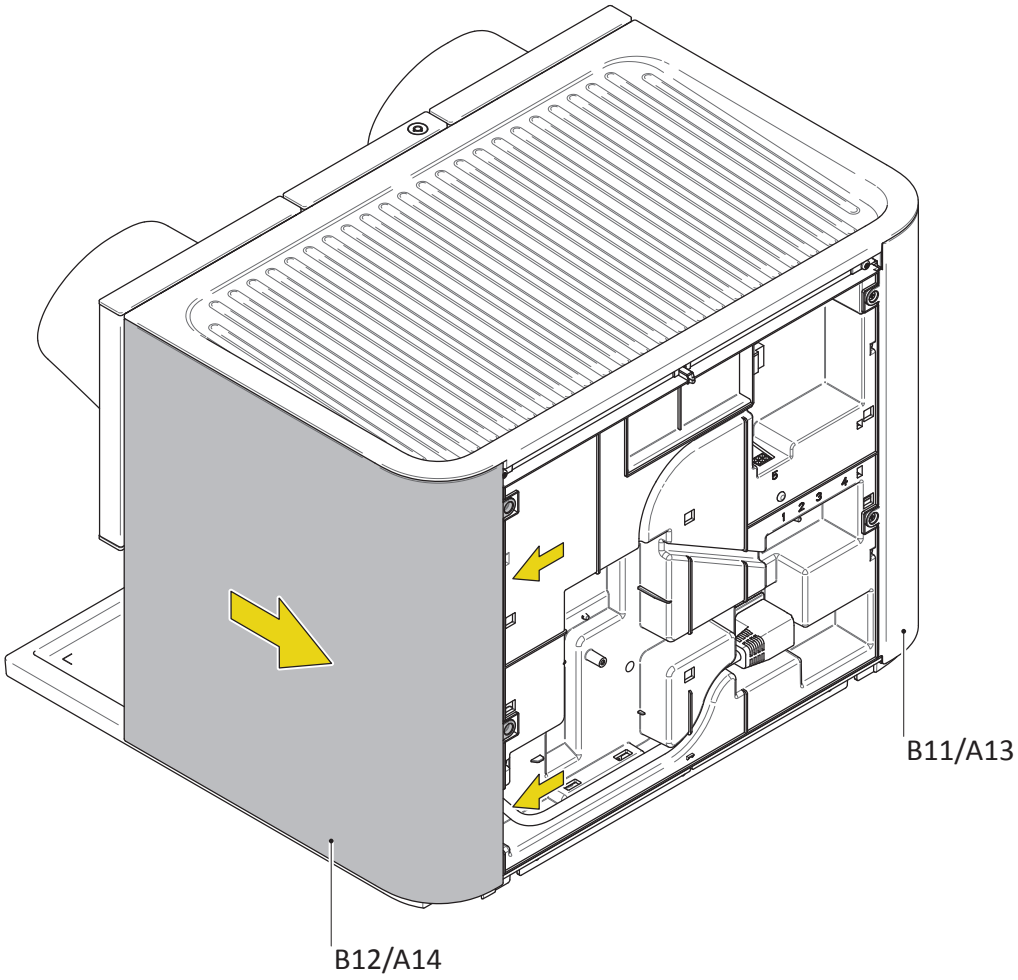


Fig. 25

2. Pull the side panel (left:B11,A13/right:B12,A14) back and away from the machine at the same time, to release its hooks.
3. Remove the side panel (left:B11,A13/right:B12,A14).

Remove coffee module

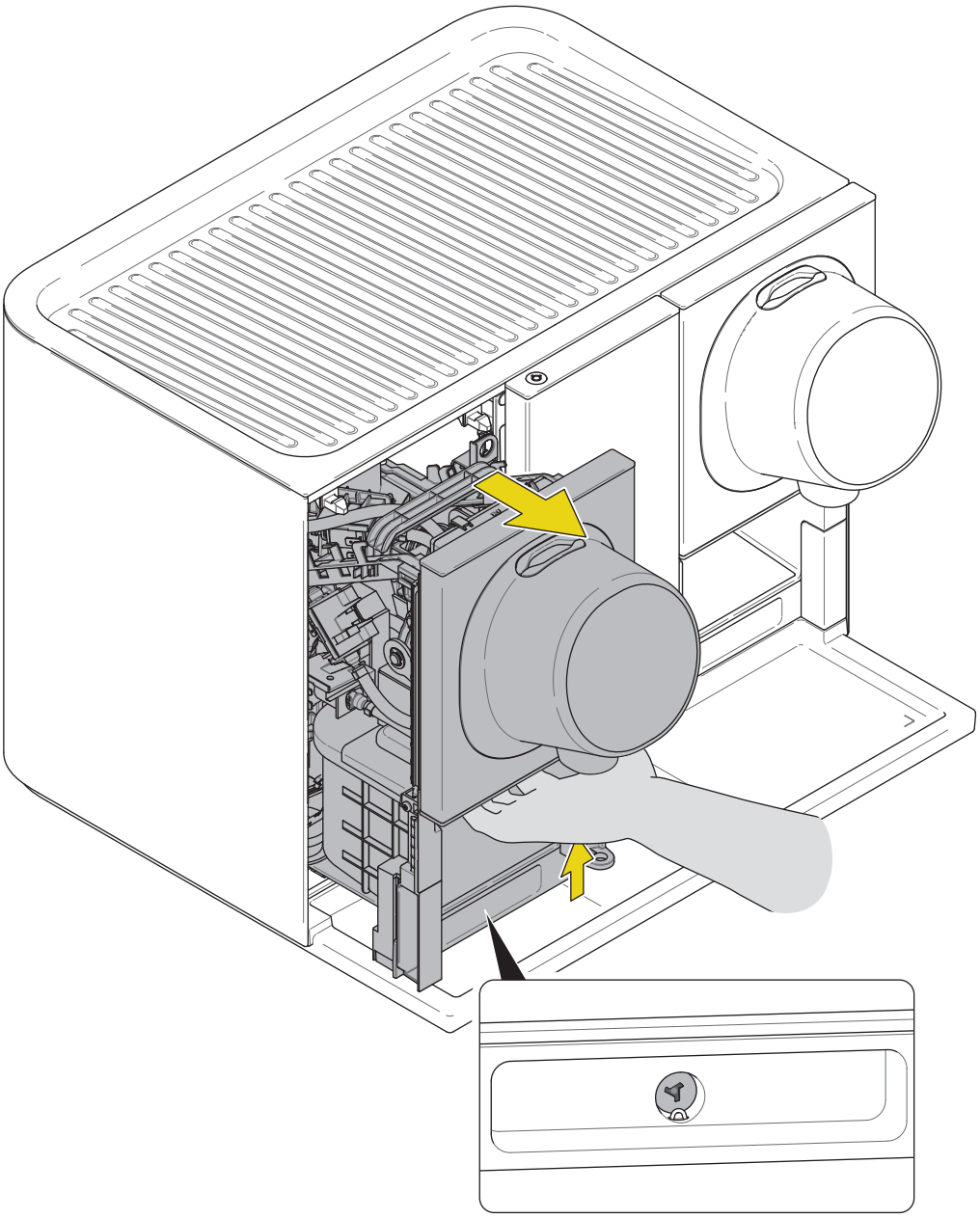


Fig. 26

Prerequisites

- Removable parts are removed → p. 48.

Procedure

1. Loosen the Tri-Wing security screw (see detail) on the coffee module you want to remove for repair.
2. Lift the coffee module upward while pulling on it to remove it.

Chassis repairs

Replace main fuse

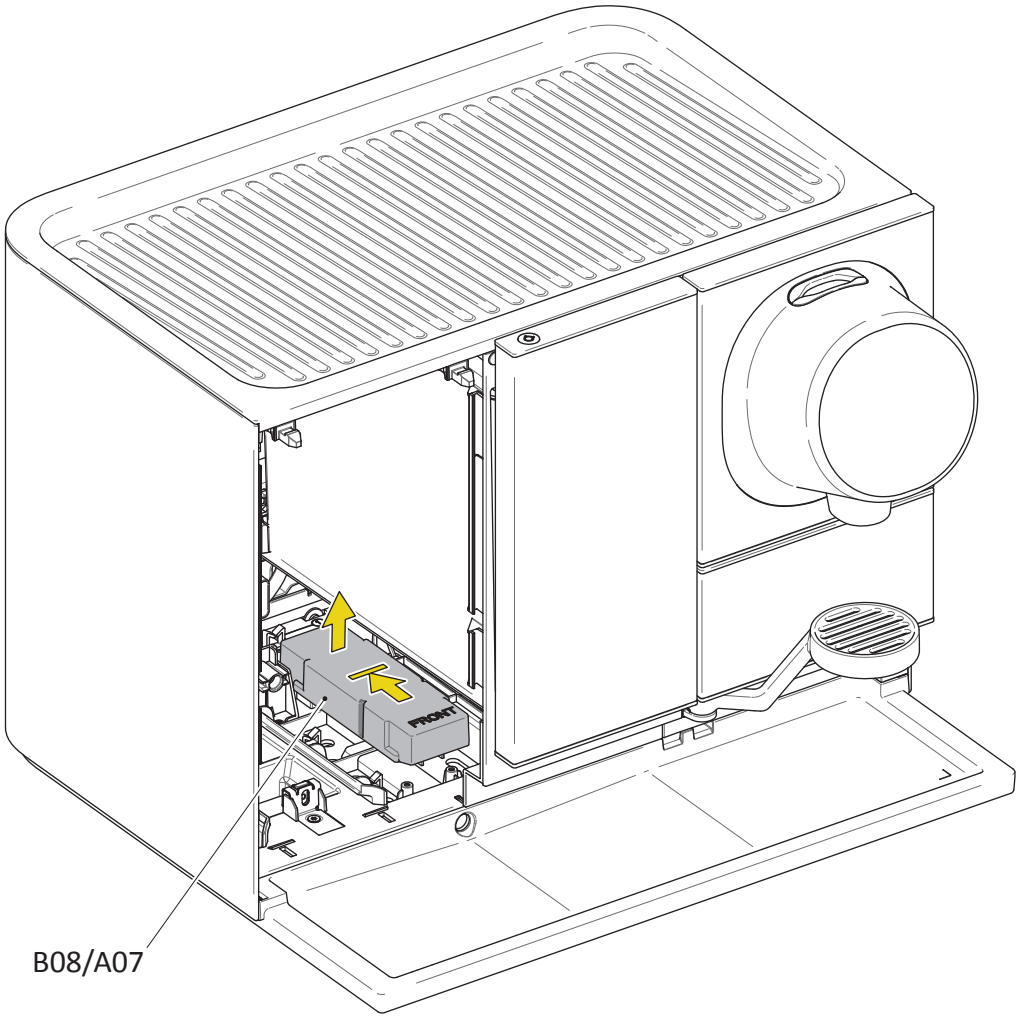


Fig. 27

Prerequisites (Left side)

- Removable parts are removed → p. 48.
- Coffee module is removed .→ p. 55

Procedure

1. Push the EMC PCB lid (B08/A07) back until you hear it click.
2. Lift up and remove the EMC PCB lid (B08/A07).

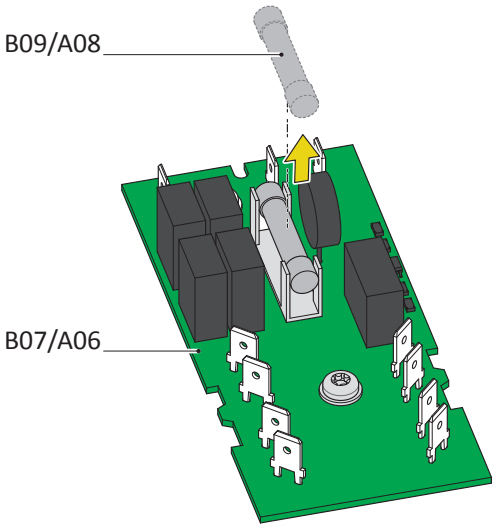


Fig. 28

3. Pull the old main fuse (B09/A08) out of its socket on the EMC PCB (B07/A06) and replace it with a new one.

Assembly tip

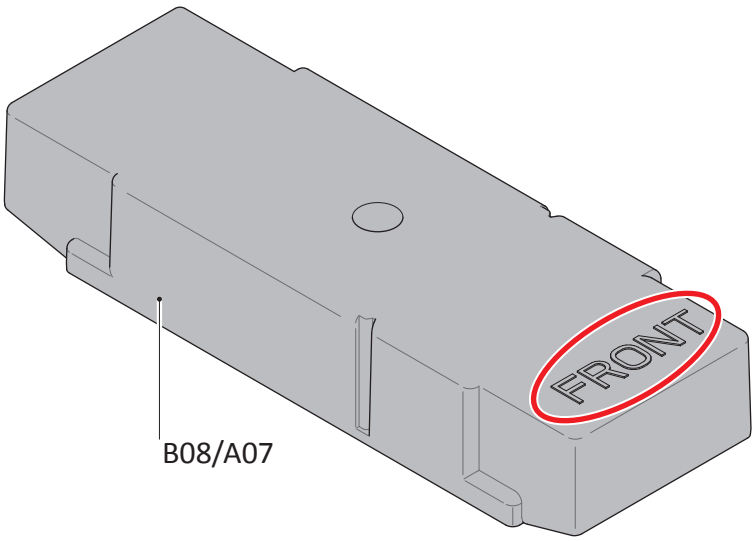


Fig. 29

- Make sure that the “FRONT” label points to the front of the machine when putting back the EMC PCB lid (B08/A07). The lid will not snap in if placed the wrong way.

Remove water tank slot

If you have problems pulling off the hose(s) from the DWC-Kit, loosen the screw on the DWC-Kit to get easier access to the hose connection(s).

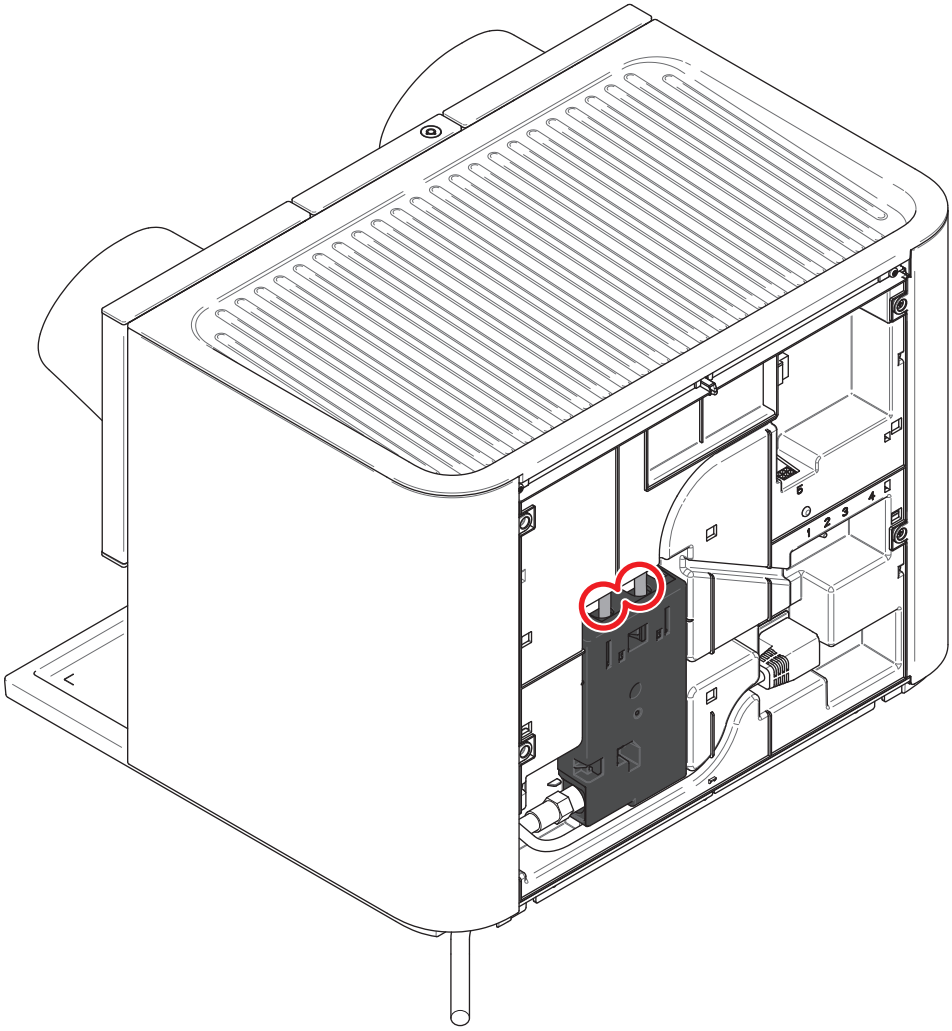


Fig. 30

Prerequisites

- Water tank door is removed → p. 50.
- Coffee module(s) are removed → p. 55.

Optional prerequisite with DWC-Kit installed

- Panel rear is removed → p. 51.

Procedure

1. Pull off both hoses from the DWC-Kit in the back if a DWC-Kit is installed.

M 100 Momento 100 has only one hose.

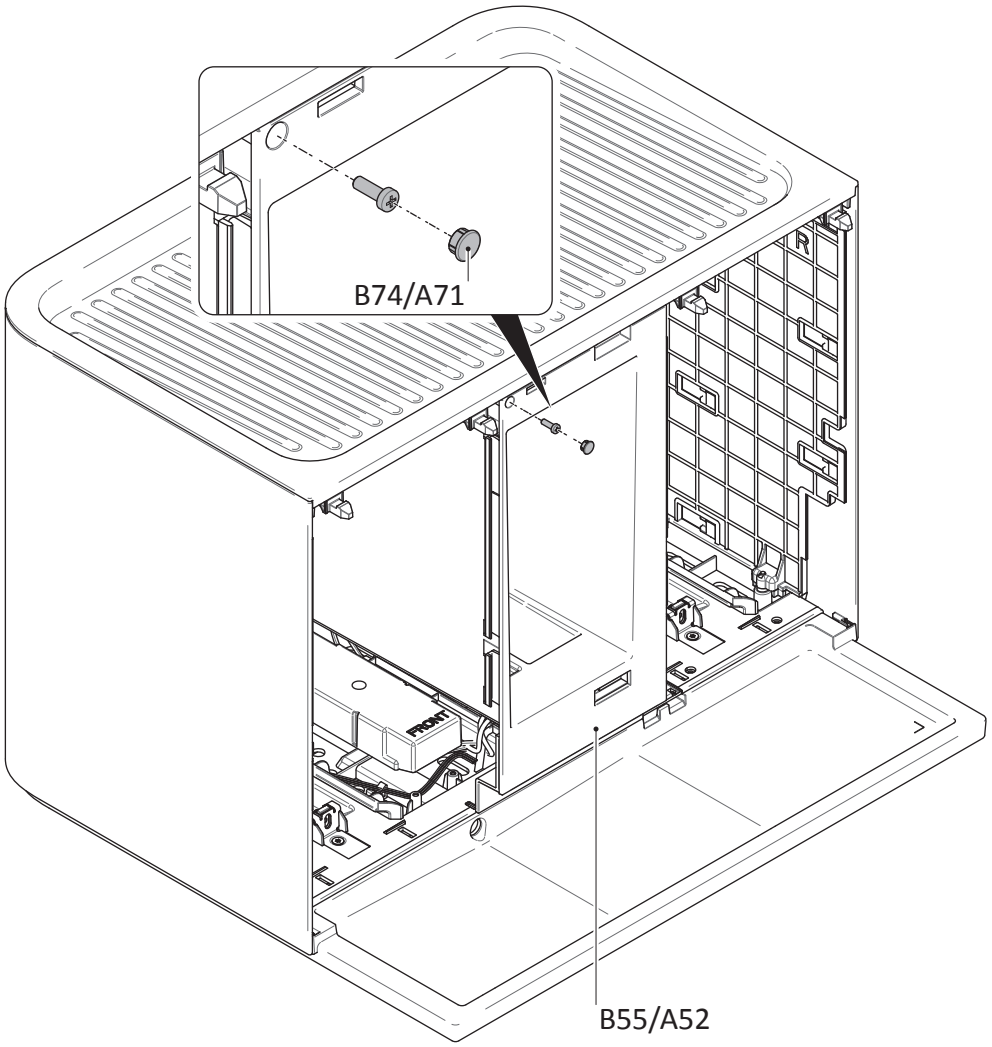


Fig. 31

M 100 Momento 100 has no screw or screw cover in this place.
Proceed to the next page.

2. Remove the screw cover (B74/A71) with the help of a small flathead screwdriver.
3. Loosen screw (crosshead) on water tank slot (B55/A52).

Danger of damage! Do not pull out the water tank slot too far while the water level detection wires are still connected.

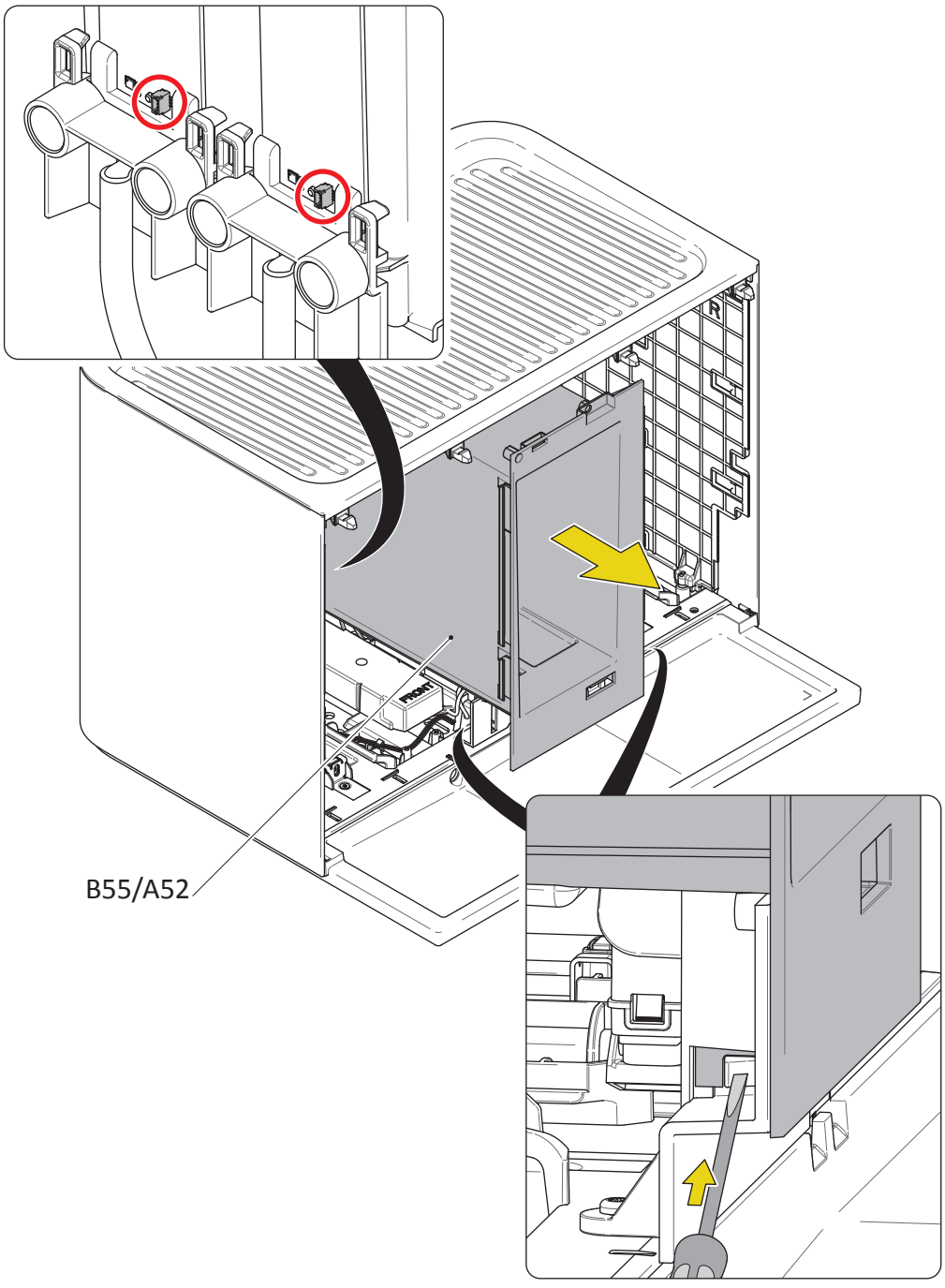


Fig. 32

4. Press in the latches (see lower detail) on both sides of the water tank slot (B55/A52) and pull it out a bit.
5. Unplug both water level detection wires (see upper detail, red circles) from the back of the water tank slot (B55/A52) as soon as you can reach them.

M 100 Momento 100 has only has only one water level detection wire.

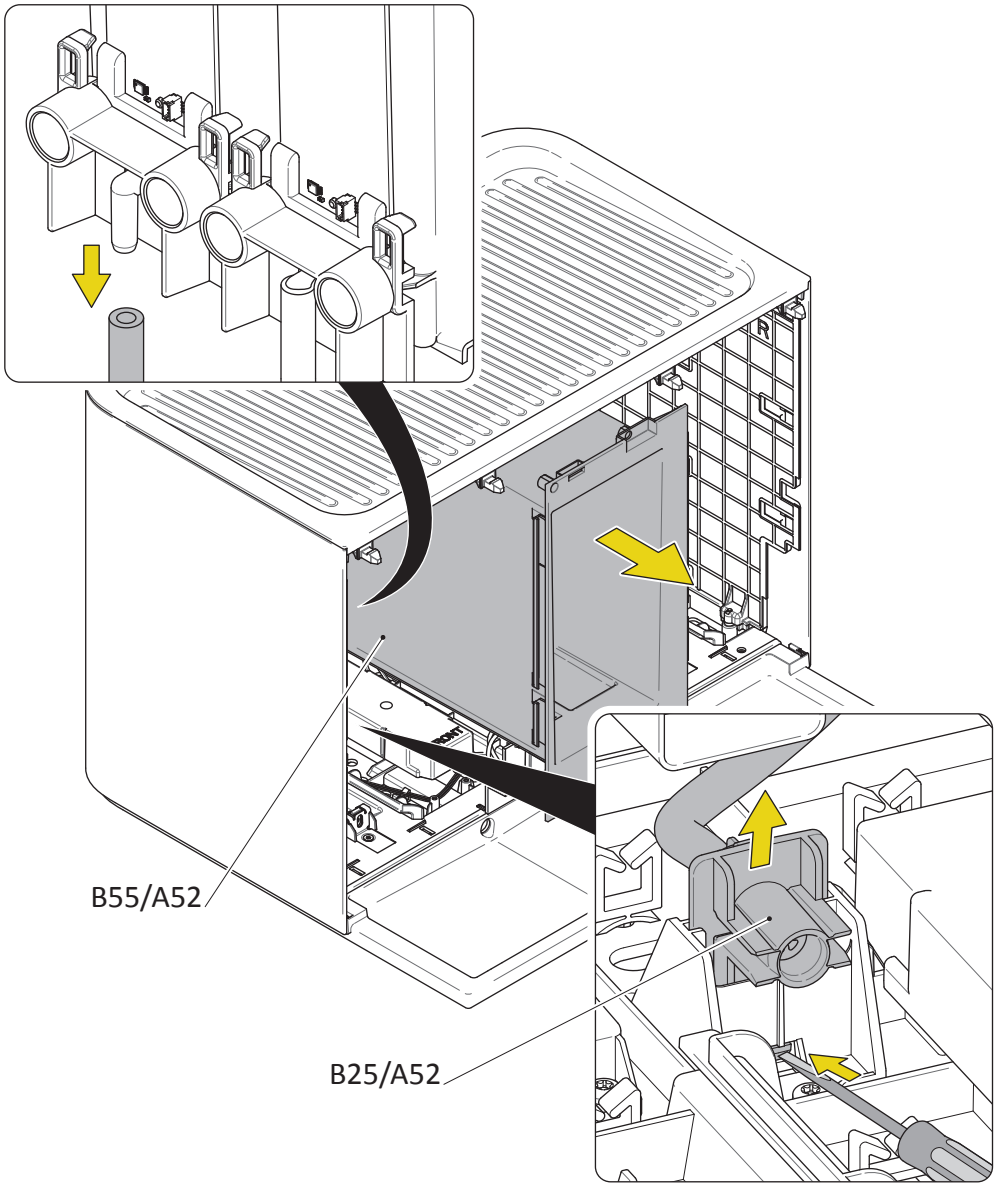


Fig. 33

6. Release the latch of the left hand chassis coupling (B25/A28) and pull it out of its socket.

M 100 Momento 100 only has the left hand coupling – skip the next step.

7. Pull of the hose from the right hand chassis coupling from the back of the water tank slot (B55/A52).
8. Remove the water tank slot (B55/A52) together with the left hand chassis coupling (B25/A28).

Assembly tips

- Reconnect the water level detection wires and the hose from the chassis coupling (B25/A28) before mounting the water tank slot (B55/A52).

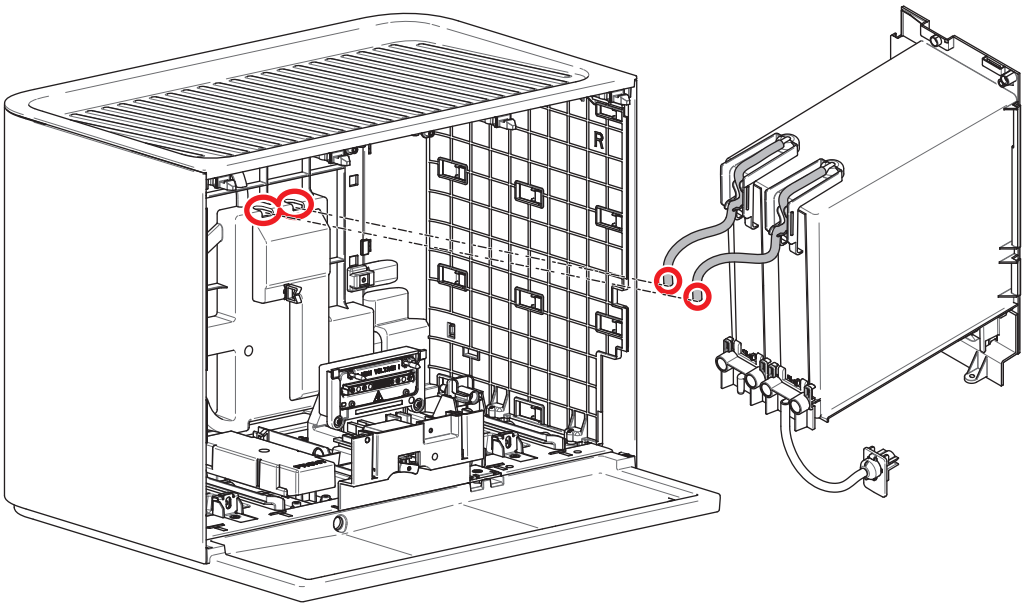


Fig. 34

- Pull the 2 hoses on top of the water tank slot (B55/A52) through the respective holes in the back of the chassis (circled in red) before mounting.

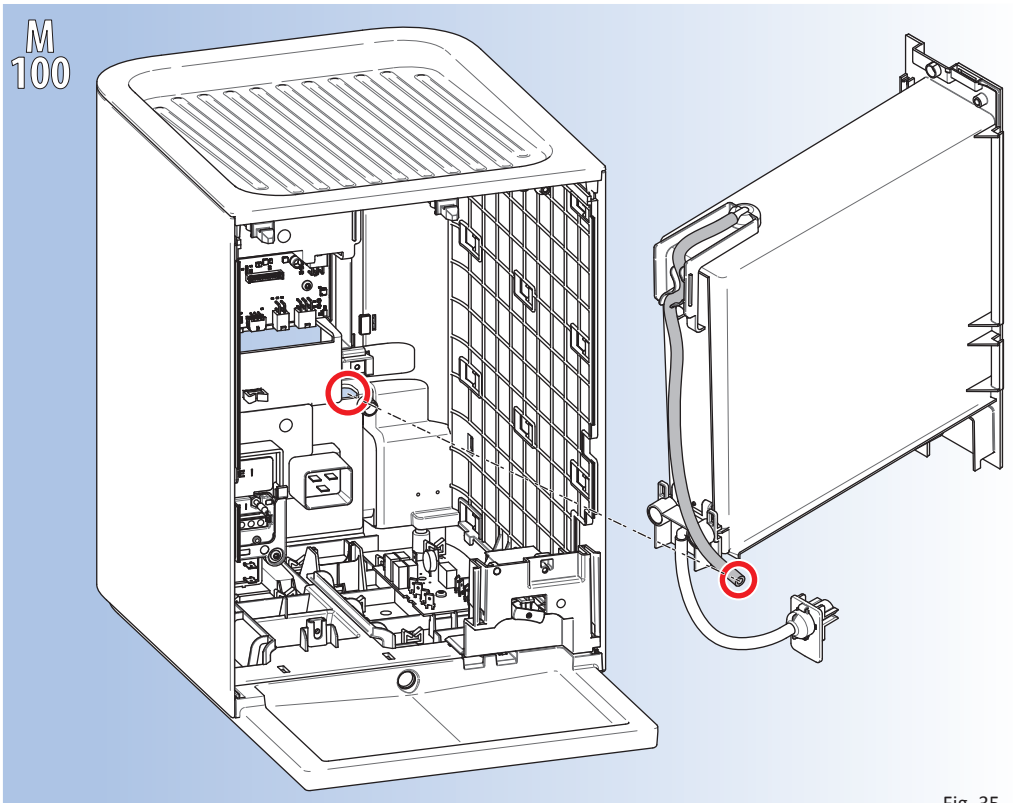


Fig. 35

- Momento 100 only has one hose.

- Reconnect the hose(s) to the DWC-Kit, if present.

Replace ON/OFF switch

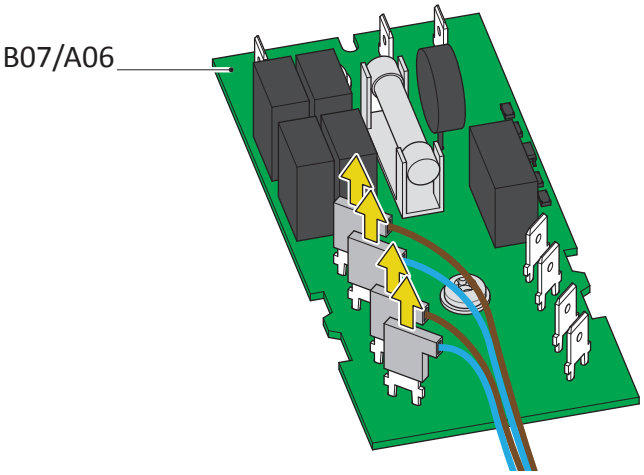


Fig. 36

Prerequisites

- Water tank door is removed → p. 50.
- Coffee module(s) are removed → p. 55.
- Water tank slot is removed → p. 58.

Procedure

1. Remove the EMC PCB lid (B08/A07) → **Fig. 27 on p. 56**.
2. Unplug the 4 left-hand receptacles on the EMC PCB (B07/A06) coming from the ON/OFF switch (B76/A73).

M 100

- The Momento 100 chassis is wired differently:

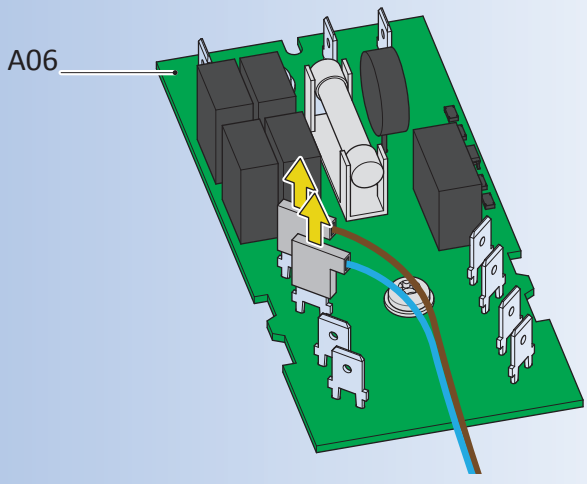


Fig. 37

- Unplug the 2 left-hand receptacles on the EMC PCB (A06) coming from the ON/OFF switch (A73).
- Continue with the M100-Block on the next page.

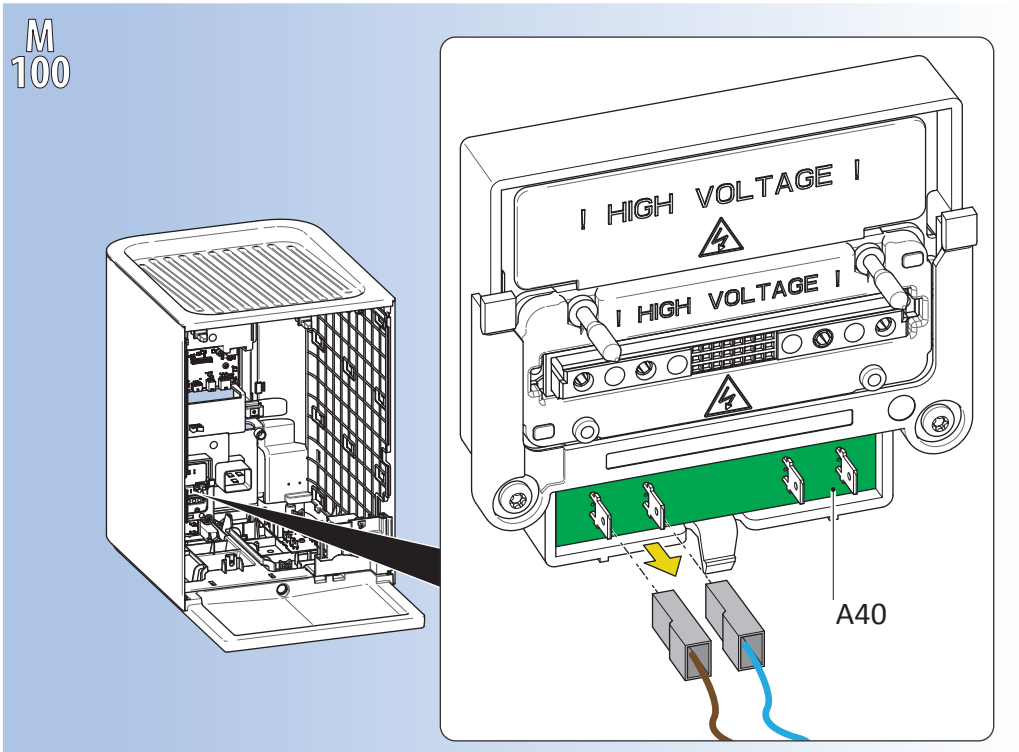


Fig. 38

- Unplug 2 receptacles of the ON/OFF switch (A73) from the smart PCB (A40).

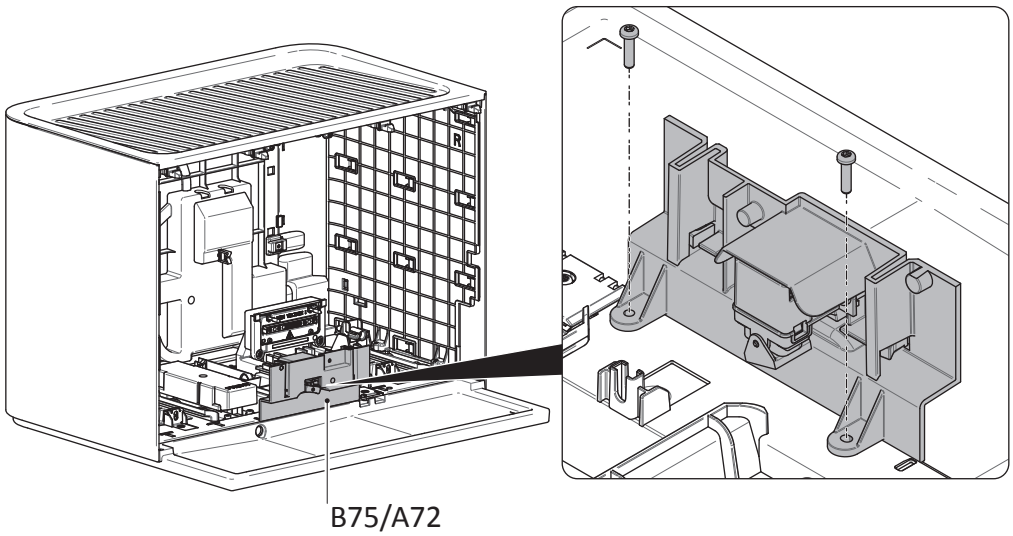


Fig. 39

3. Loosen 2 screws (TX20) from switch support (B75/A72).
4. Lift the ON/OFF switch (B76/A73) together with its support (B75/A72) and wires out of the chassis.

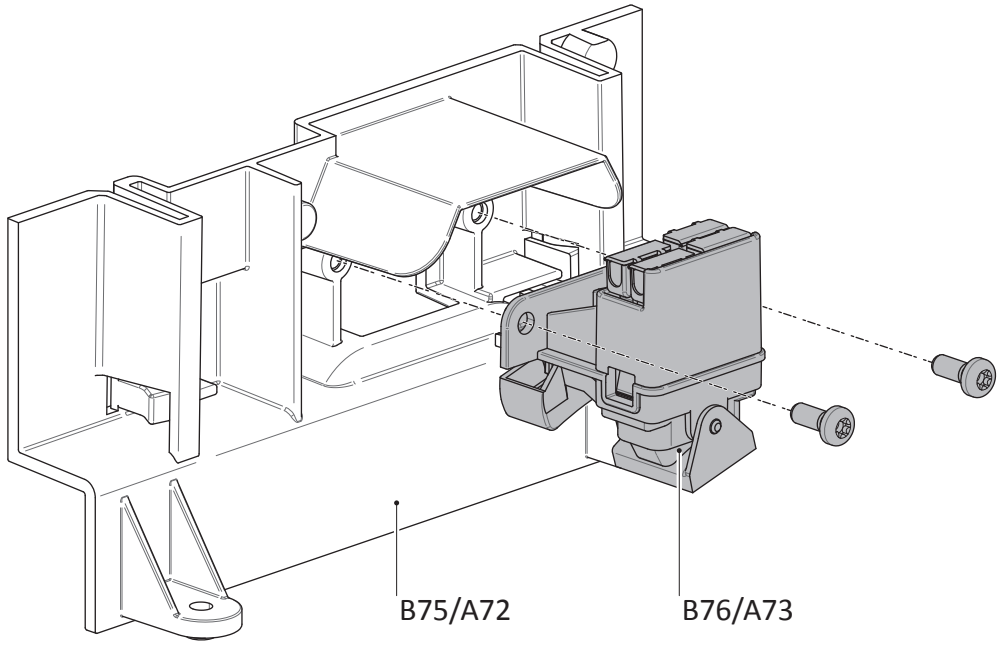


Fig. 40

5. Loosen 2 screws (TX20) from the ON/OFF switch (B76/A73).
6. Remove the ON/OFF switch (B76/A73) from the switch support (B75/A72).

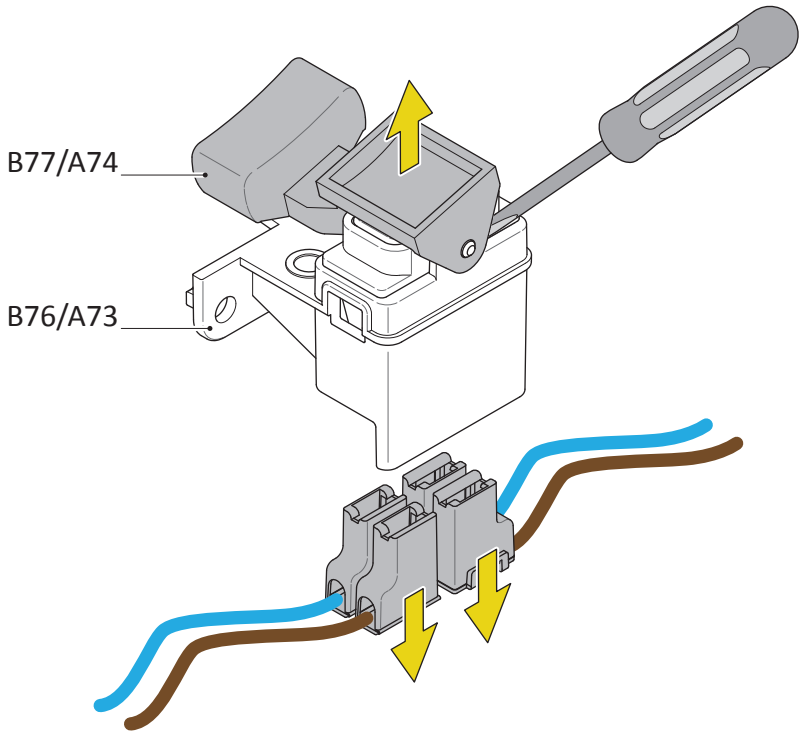


Fig. 41

7. Remove the ON/OFF actuator (B77/A74) from the ON/OFF switch (B76/A73) with the help of a small flathead screwdriver.
8. Unplug the wires and replace the ON/OFF switch (B76/A73).

Remove drip tray contacts for cleaning

This procedure only needs to be done if the drip tray is not or not always recognized when placed onto the machine.

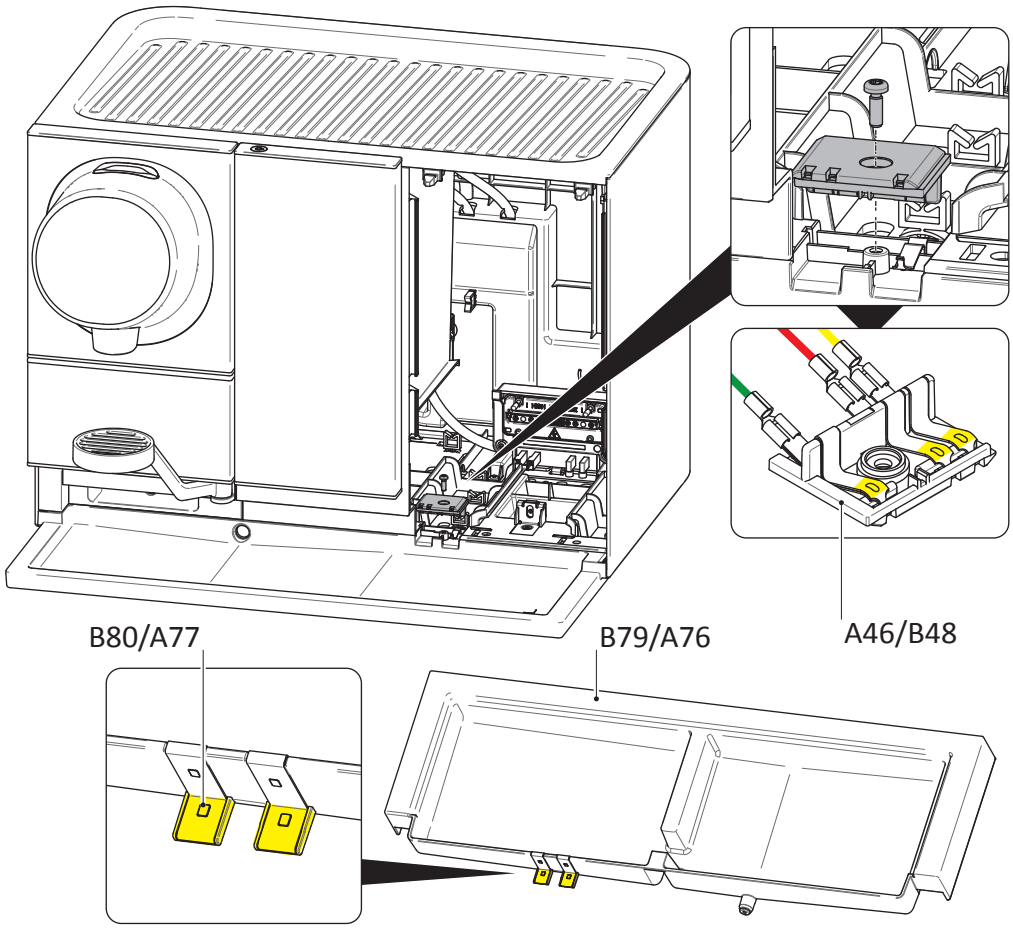


Fig. 42

Prerequisites Momento 200

- Right coffee module is removed → p. 55.

Prerequisites Momento 100

- Water tank door is removed → p. 50.
- Coffee module is removed → p. 55.
- Water tank slot is removed → p. 58.
- ON/OFF switch with support is removed → p. 63.

Procedure

M 100 With the above prerequisites for the Momento 100 chassis fulfilled, you have access to the drip tray contacts (A77) without further requirements. Continue with step 2.

1. Loosen 1 screw (TX20) on drip tray contact plate (B48).
2. Turn the drip tray contact plate (A46/B48) around and clean the contacts (see detail, yellow surfaces).
3. Also clean the contacts (B80/A77) on the drip tray (B79/A76) itself (see detail, yellow surfaces).

Replace smart PCB

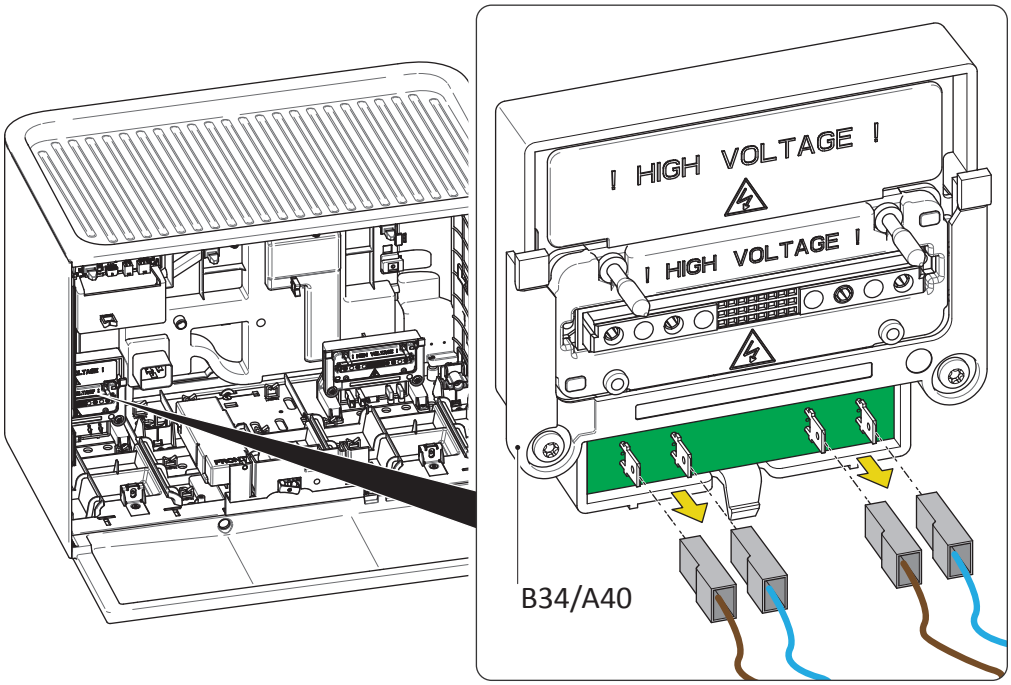


Fig. 43

Prerequisites

- Water tank door is removed → p. 50.
- Coffee module(s) are removed → p. 55.
- Water tank slot is removed → p. 58.

Procedure

1. Unplug all receptacles from the front of the smart PCB (B34/A40).

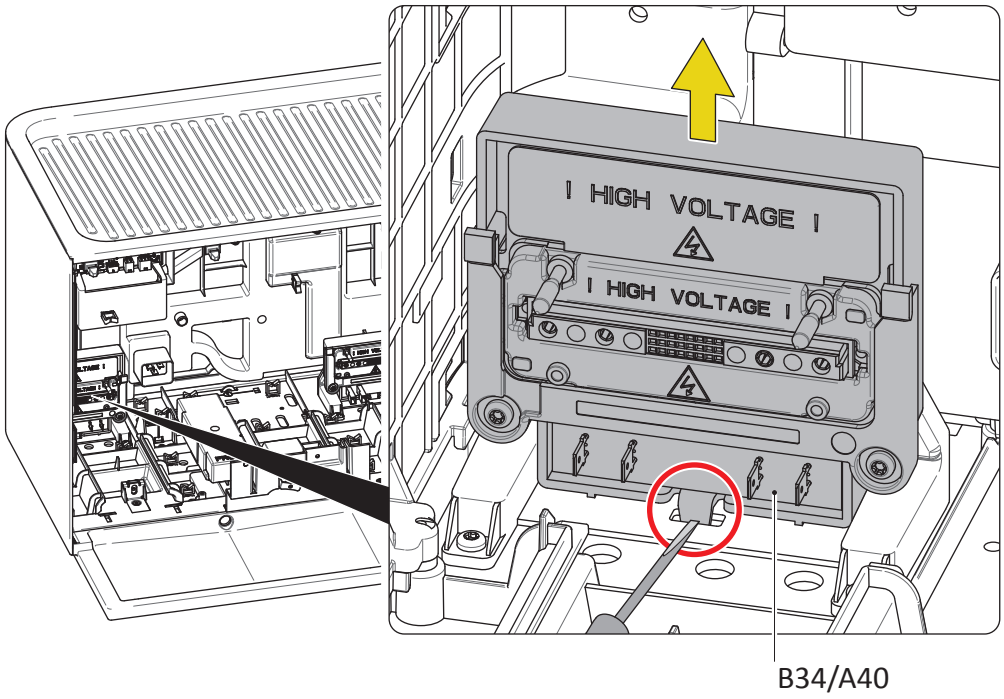


Fig. 44

2. Release the latch (circled in red) on the bottom of the smart PCB (B34/A40) with the help of a screwdriver and slide the smart PCB (B34/A40) upwards, out of its guides.

Slot (e) is used as interface to program or update the smart PCB (B34/A40).

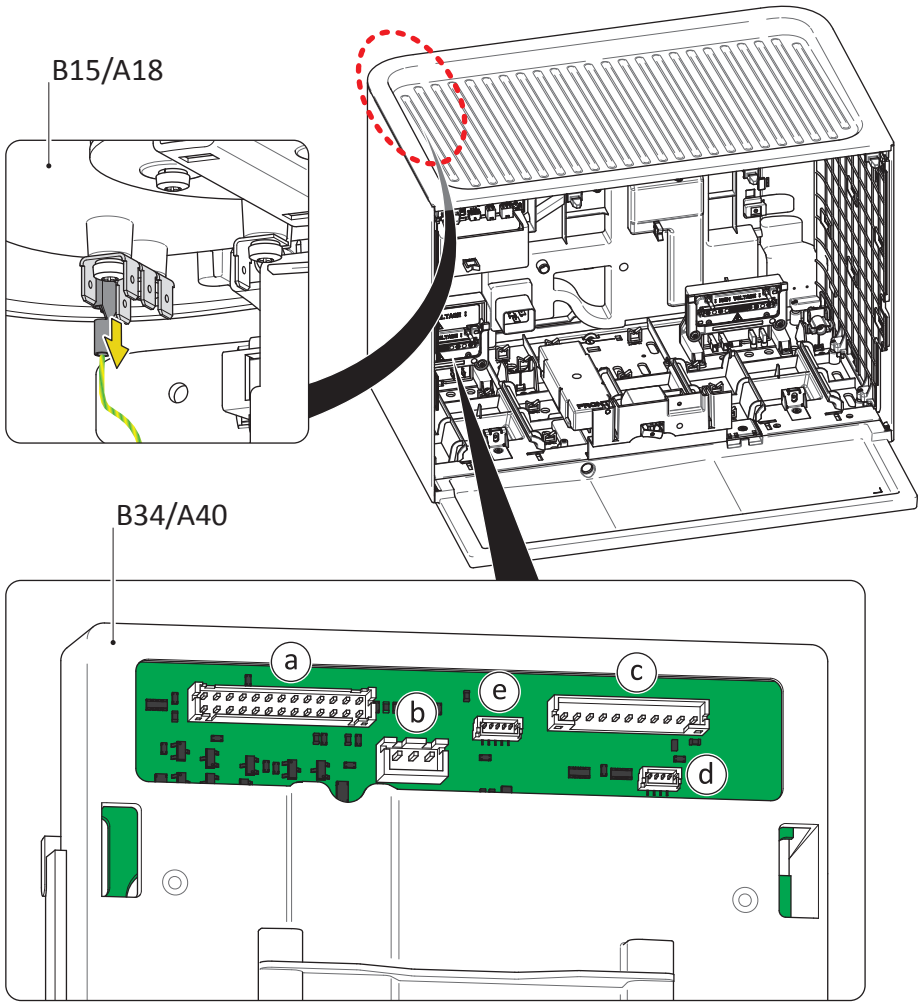
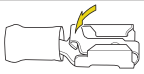


Fig. 45

3. Unplug the flat receptacle of the grounding wire from the top plate (B15/A18).



This kind of flat receptacle has a special connector latching. Press down the lever with flat nose pliers while pulling on it.

1. Unplug all connectors from the back of the smart PCB (B34/A40):
   (a) Access point PCB connector
   (b) Drip tray contact connector
   (c) Extension PCB connector (Momento 200 only)
   (d) Water level detection connector
2. Replace the smart PCB (B34/A40).

Assembly tip

- Make sure that the connector latch of the grounding wire is locked by slightly pulling it down.

Replace extension PCB (Momento 200 only)

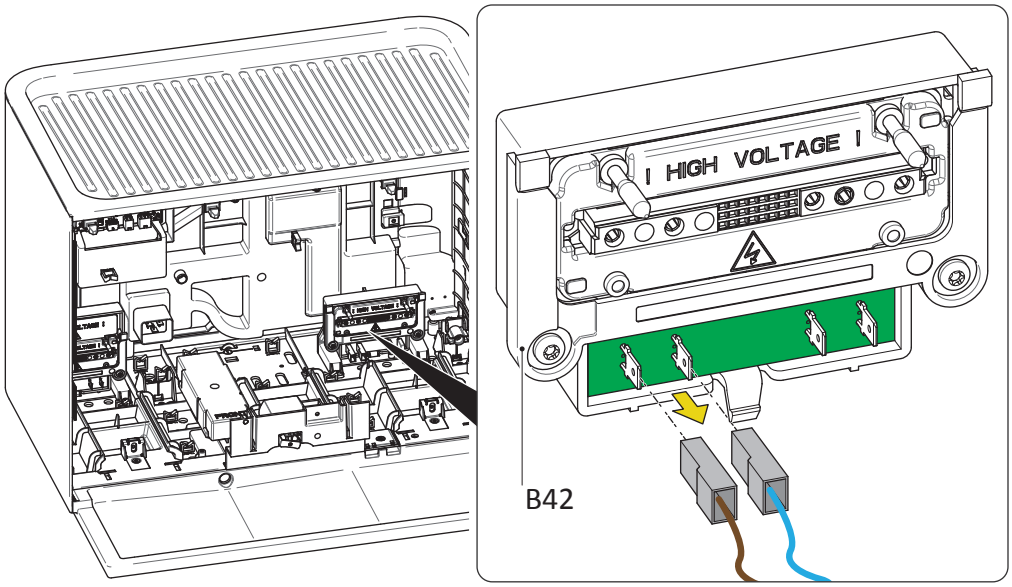


Fig. 46

Prerequisites

- Water tank door is removed → p. 50.
- Coffee module(s) are removed → p. 55.
- Water tank slot is removed → p. 58.

Procedure

1. Unplug all receptacles from the front of the extension PCB (B42).

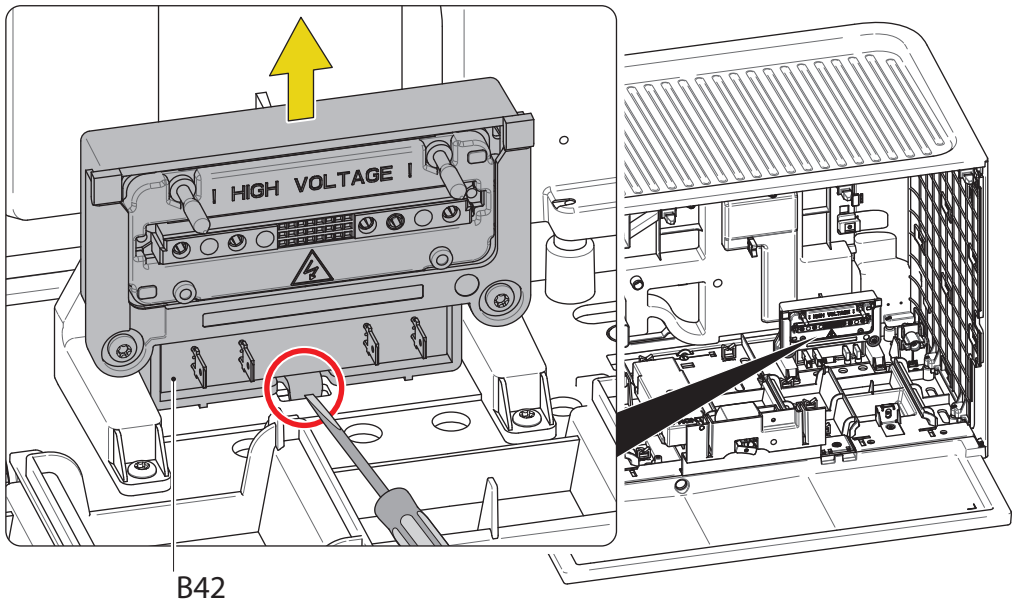


Fig. 47

2. Release the latch (circled in red) on the bottom of the extension PCB (B42) with the help of a screwdriver and slide the extension PCB (B42) upwards, out of its guides.

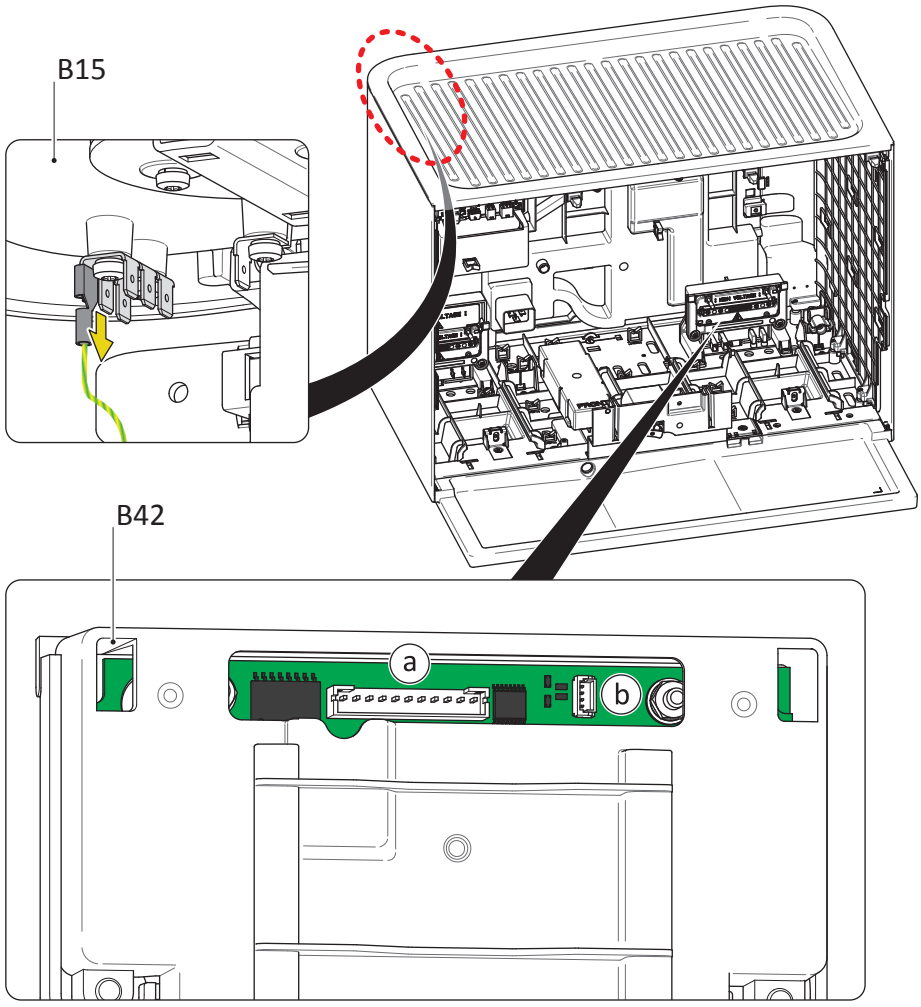
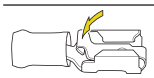


Fig. 48

3. Unplug the flat receptacle of the grounding wire from the top plate (B15).



This kind of flat receptacle has a special connector latching. Press down the lever with flat nose pliers while pulling on it.

4. Unplug all connectors from the back of the extension PCB (B42):
   (a) Smart PCB connector
   (b) Water level detection connector for 2nd tank
5. Replace the extension PCB (B42).

Assembly tip

- Make sure that the connector latch of the grounding wire is locked by slightly pulling it down.

Replace PTC heaters (cup heating)

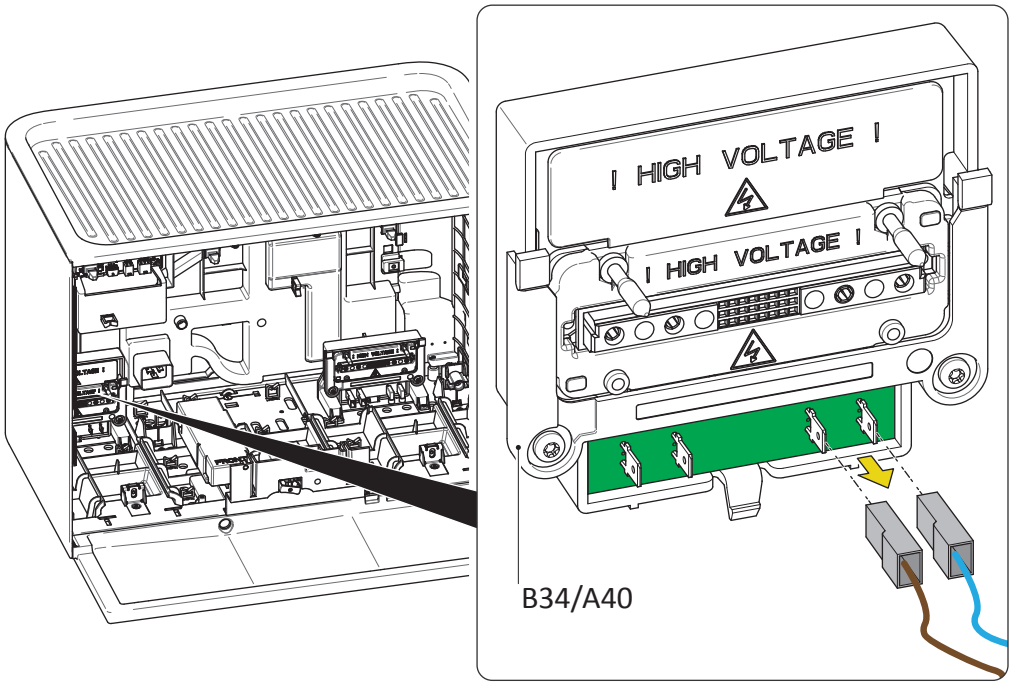


Fig. 49

Prerequisites

- Water tank door is removed → p. 50.
- Coffee module(s) are removed → p. 55.
- Water tank slot is removed → p. 58.

Procedure

1. Unplug 2 receptacles connected to the PTC heaters (B18/A21) from the smart PCB (B34/A40).

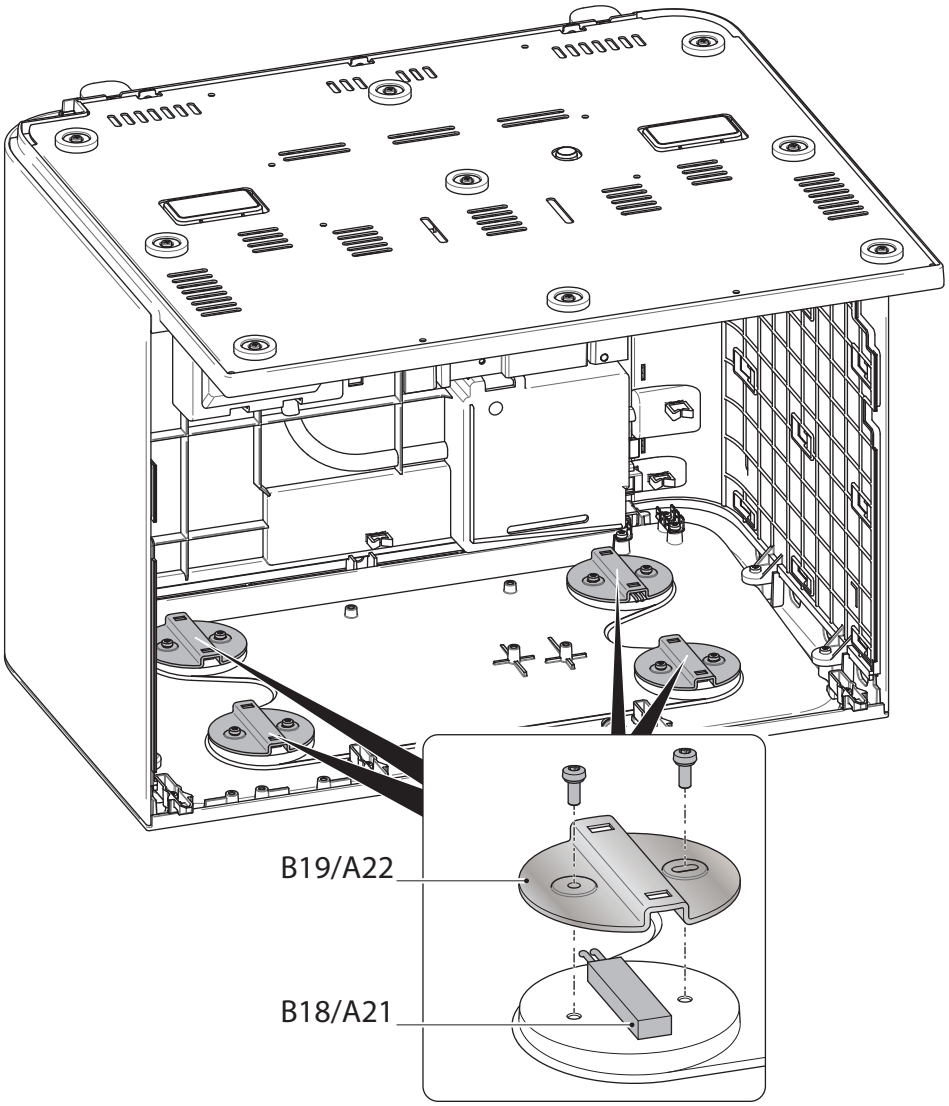


Fig. 50

2. Turn the machine upside down for easier access to the PTC heaters (B18/A21).
3. Loosen 2 screws (TX20) with washers per PTC heater support (B19/A22).
4. Remove the PTC heater supports (B19/A22).
5. Replace the PTC heaters (B18/A21).

Assembly tip

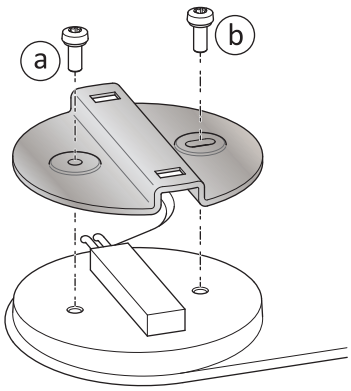


Fig. 51

- Turn in screw (a) first, then turn in screw (b) into the long slot.

i It is not necessary to turn the machine upside down if you cannot, but it makes repair work on the heaters a lot easier.

Coffee Module repairs

To remove the coffee module(s) → p. 55

Remove main PCB cover

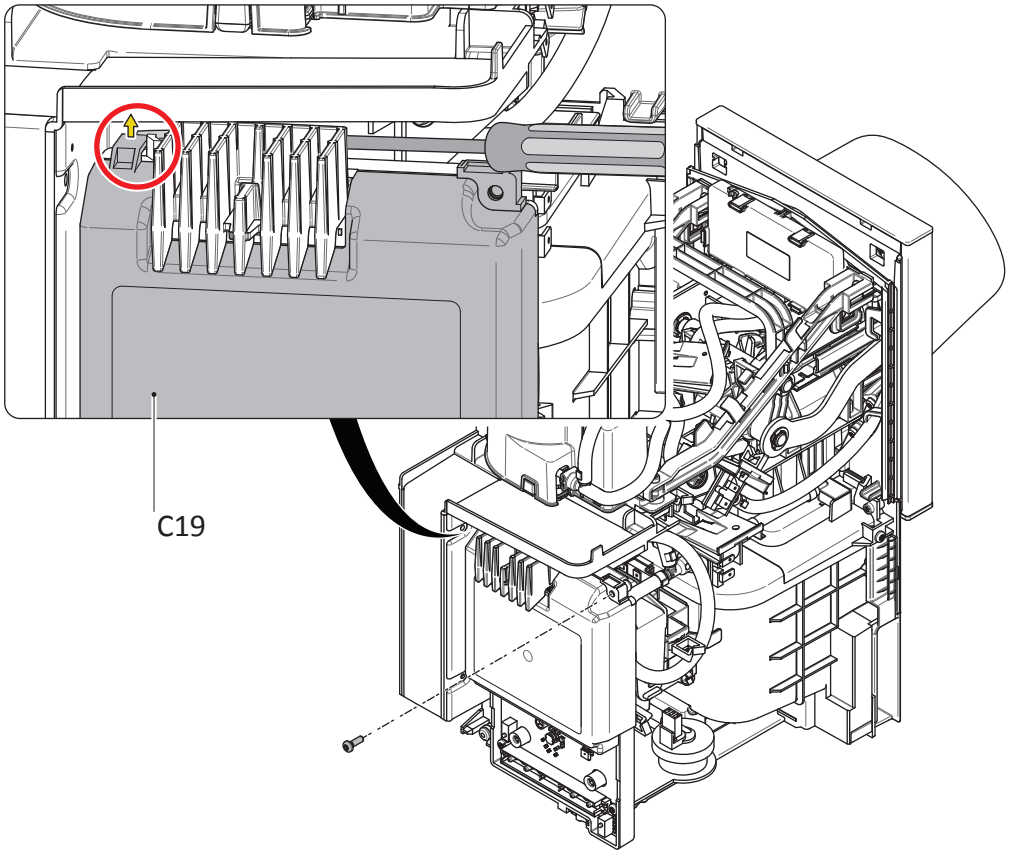


Fig. 52

1. Loosen the screw (TX20) on main PCB cover (C19).
2. Release the latch (see detail) on main PCB cover (C19) with a long enough flat-head screwdriver.
3. Slide the main PCB cover (C19) downwards and remove it.

Assembly tip

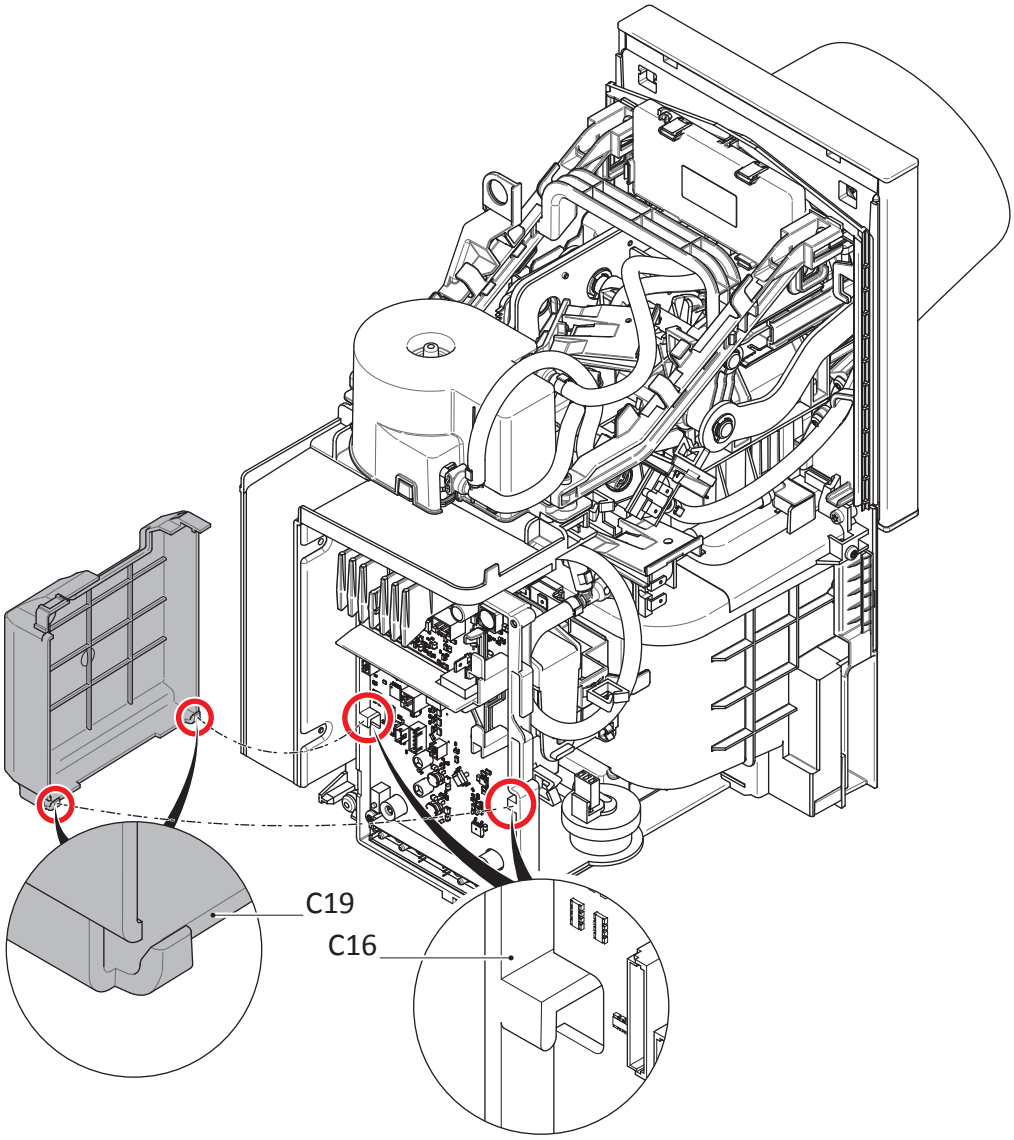


Fig. 53

- Ensure that the 2 hooks at the bottom of the main PCB cover (C19) are inserted from below into main PCB housing (C16) before snapping the cover back in place.

Remove head base plate

⚠ Danger of damage! Always replace the O-ring when pulling of a hose adapter from a valve.

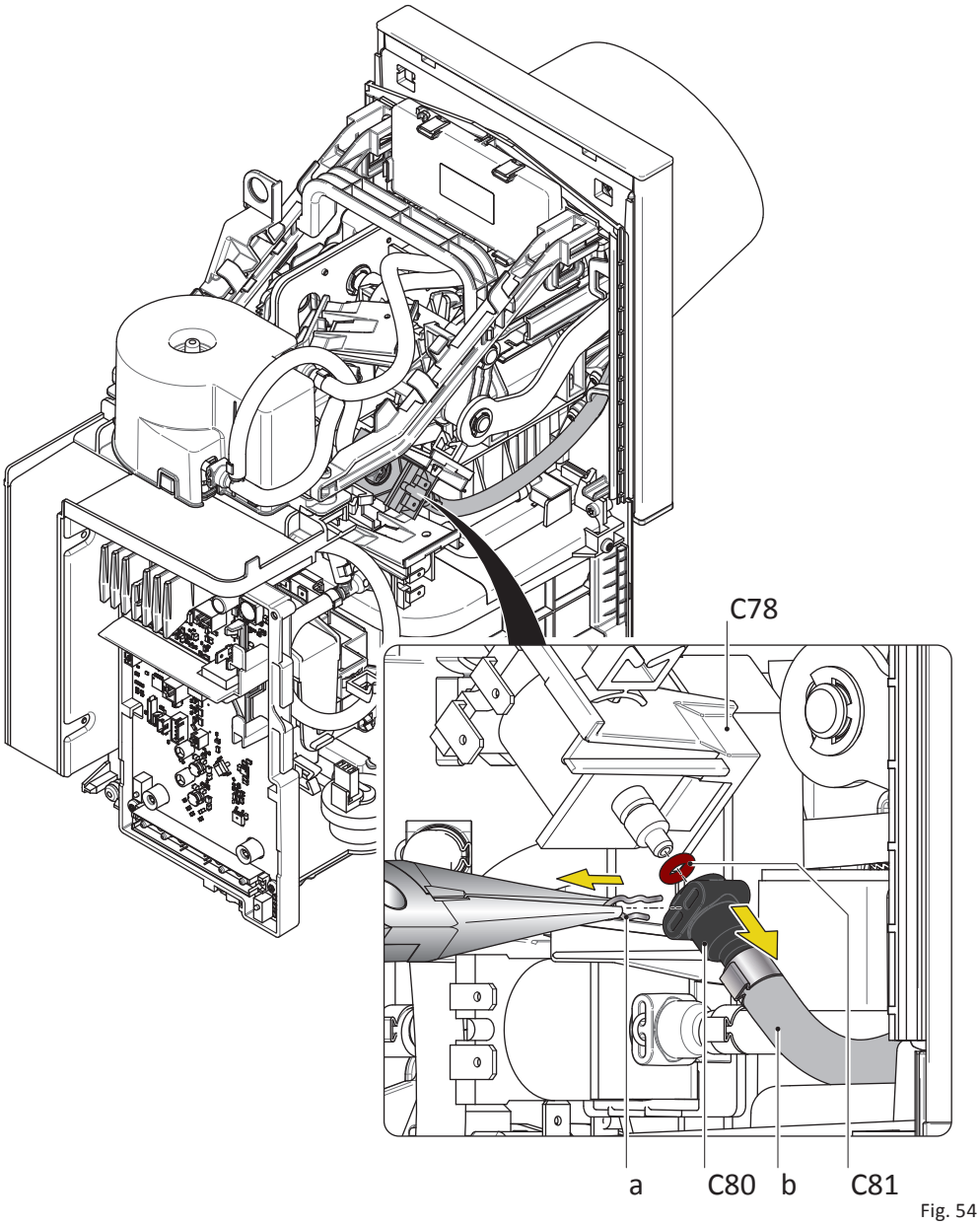


Fig. 54

Prerequisites

- Main PCB cover is removed → p. 74.

Procedure

1. Pull out the connector clip (a) from the hose adapter (C80) with pointed pliers.
2. Pull off the hose (b) with hose adapter (C80) from the valve (C78).
3. Replace the O-ring (C81) seated between valve (C78) and hose adapter (C80).

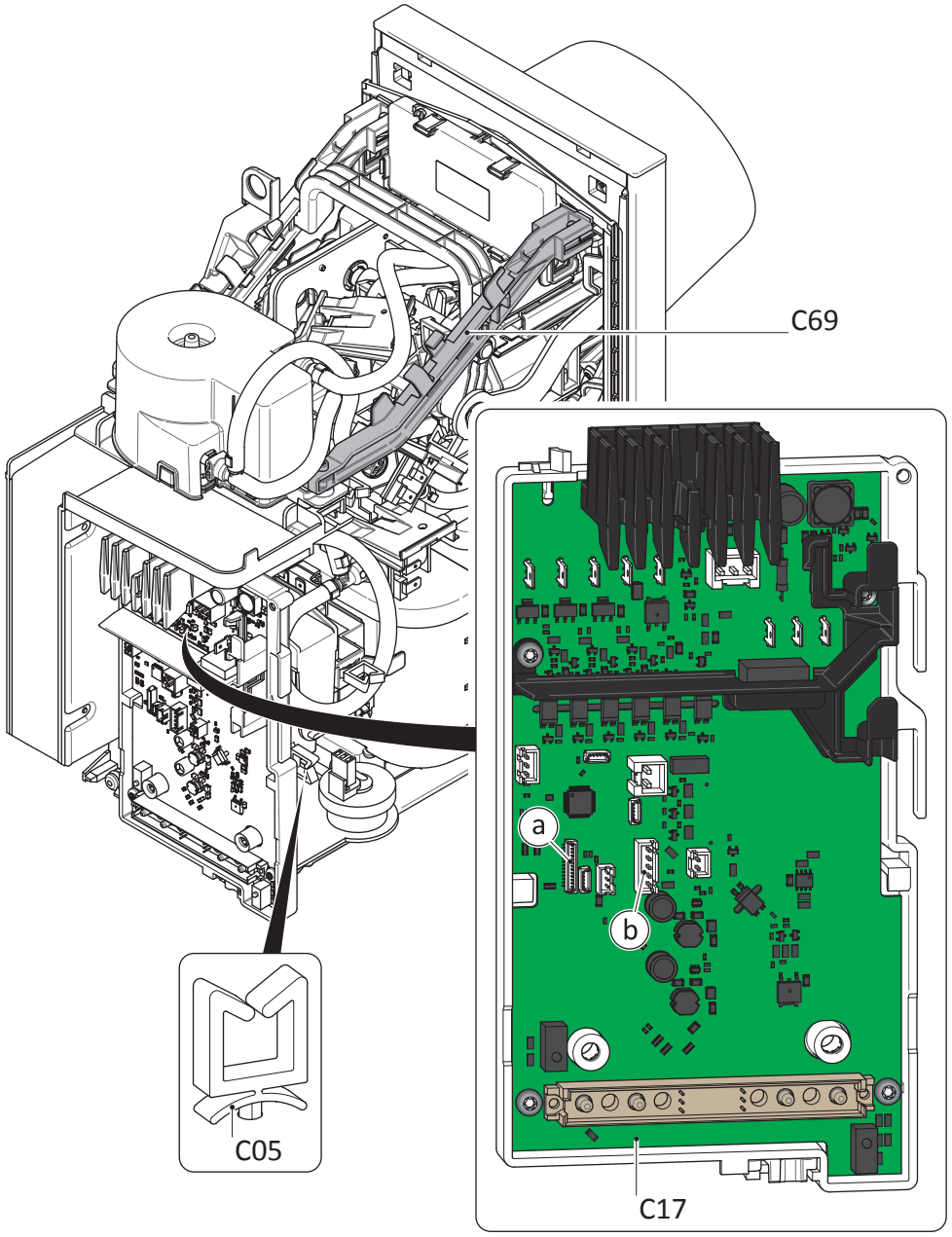


Fig. 55

4. Unplug the MMI connectors (see detail) from the main PCB (C17):
   (a) MMI connector
   (b) MMI power connector
5. Pull the MMI wires out of the wire saddles (C05) up till but not including the cross beam (C69).

ℹ Be cautious not to lose the square nuts countering the screws on the cross beam.

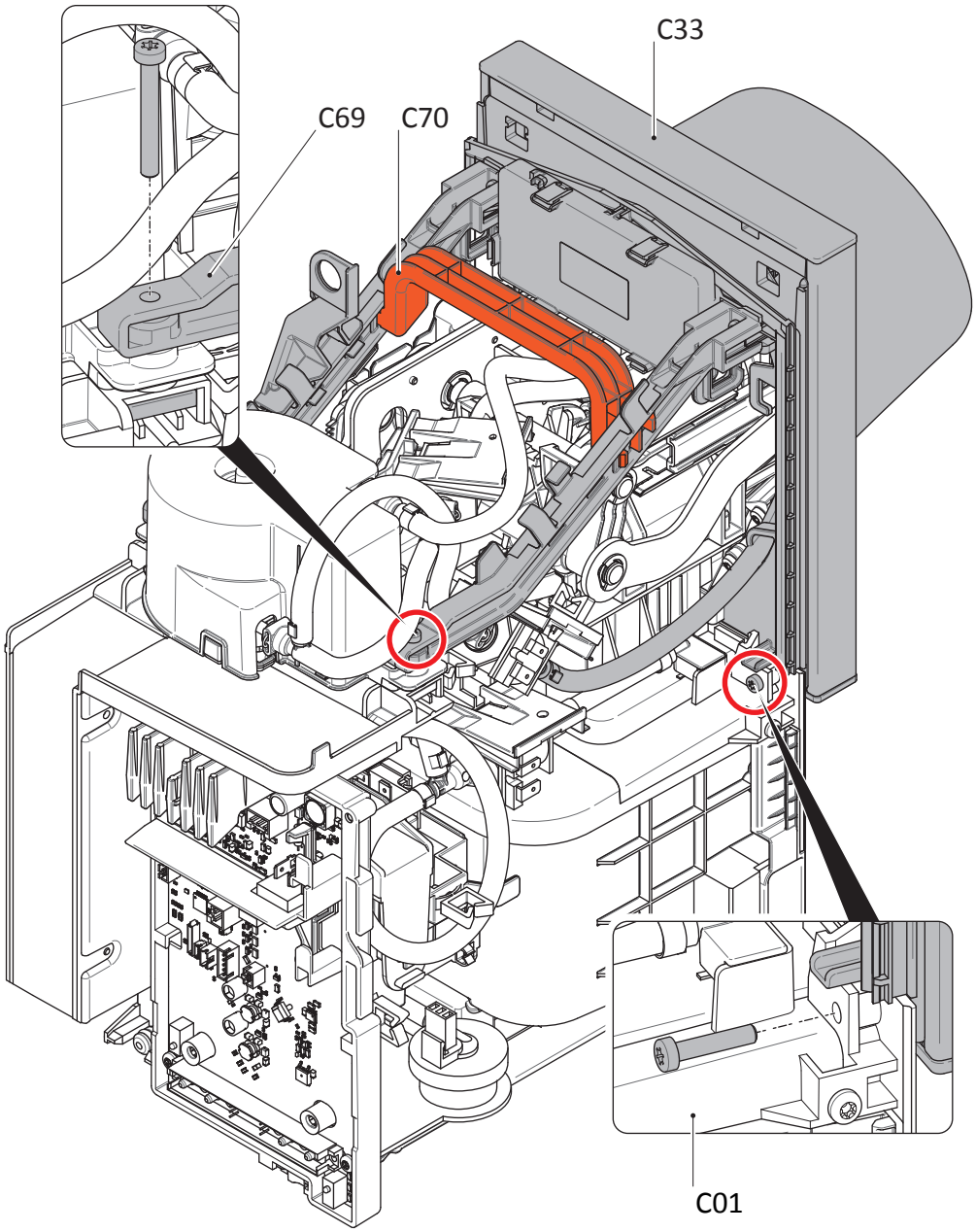


Fig. 56

6. Loosen one screw (TX20) on the cross beam (C69) and on the chassis BU (C01).
7. Do the same on the other side of the coffee module.
8. Remove the head base plate (C33) by pulling it away on the coffee module handle (C70).

Assembly tips

- Make sure that the cross beam (C69) screws are countered with a square nut.
- Always replace the O-ring (C81) seated between the valve (C78) and hose adapters (C80).

Replace outlet LED

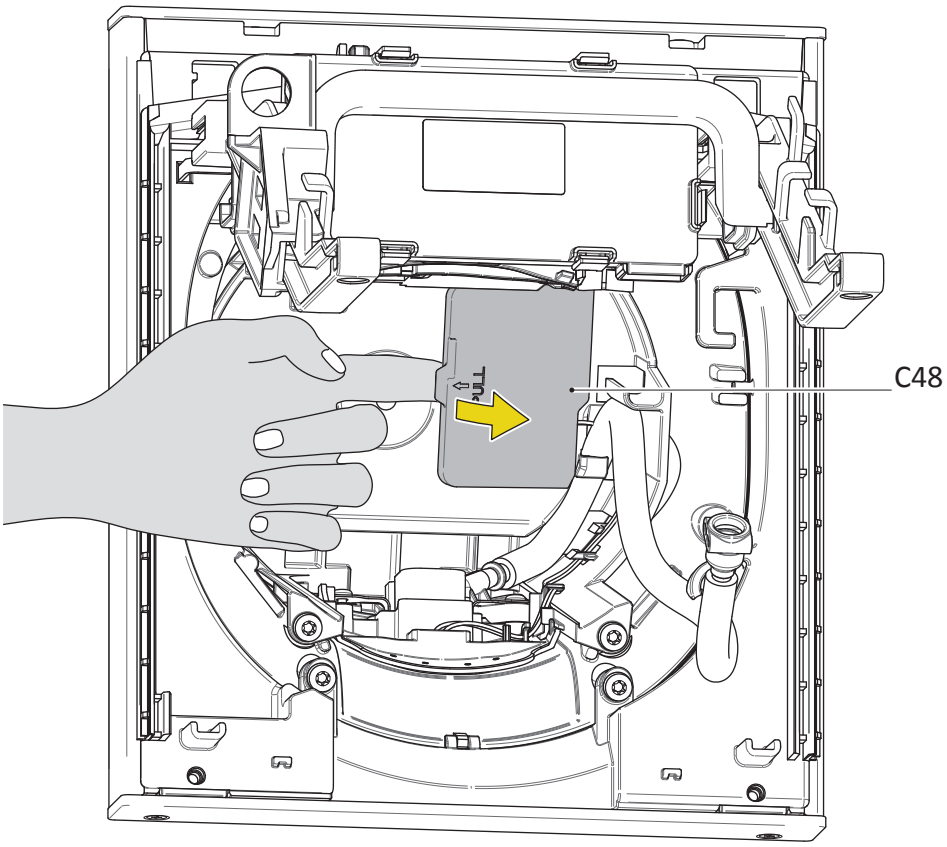


Fig. 57

Prerequisites

- Head base plate is removed → p. 76.

Procedure

1. Open and remove the MMI cables sealing (C48) with your hand or a suitable tool

The sealing (C48) is held by two latches so it needs some force to remove it

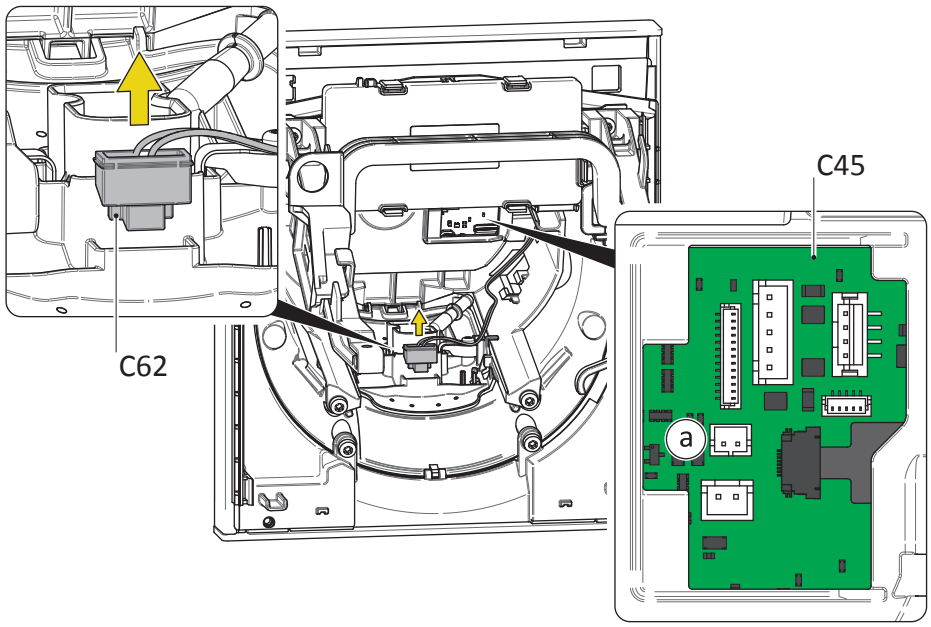


Fig. 58

2. Unplug the outlet LED connector (a) from the MMI PCB (C45).
3. Simply pull out and replace the outlet LED (C62).

Replace capsule recognition

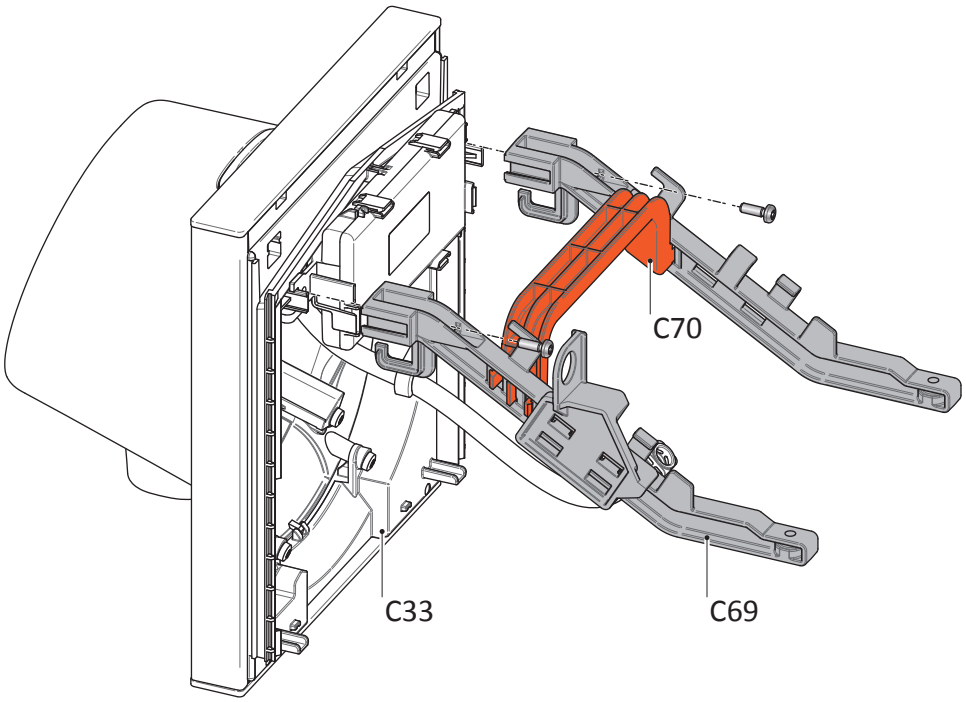


Fig. 59

Prerequisites

- Head base plate is removed → p. 76.

Procedure

1. Loosen 2 screws (TX20) on cross beams (C69).
2. Detach the cross beams (C69) and coffee module handle (C70) together from the head base plate (C33).

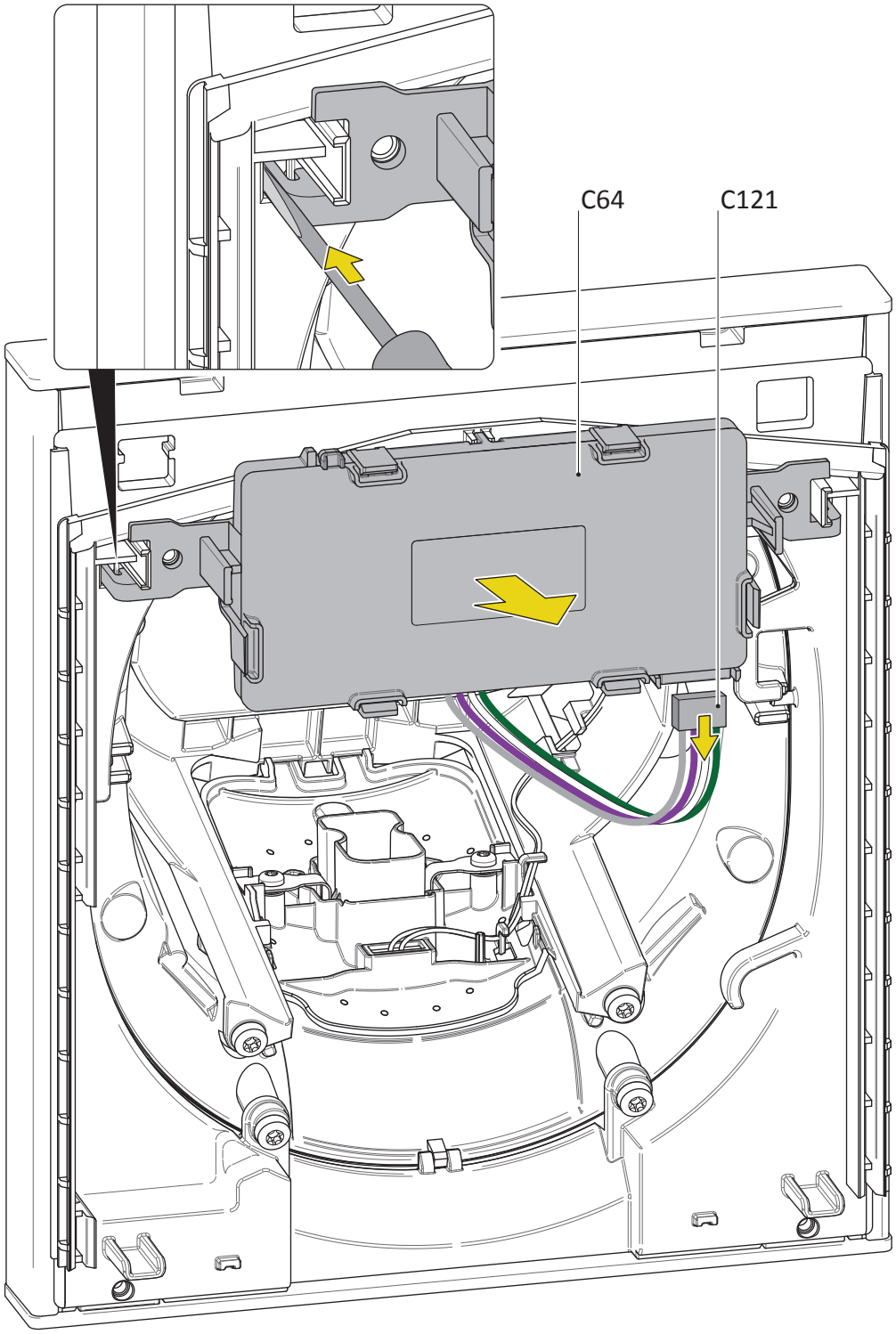


Fig. 60

3. Unplug the capsule recognition wire (C121) from the capsule recognition (C64).
4. Release the latches on the side of the capsule recognition housing (C64) with the help of a small flathead screwdriver (see detail).
5. Remove the capsule recognition (C64)

Replace MMI assembly (screen)

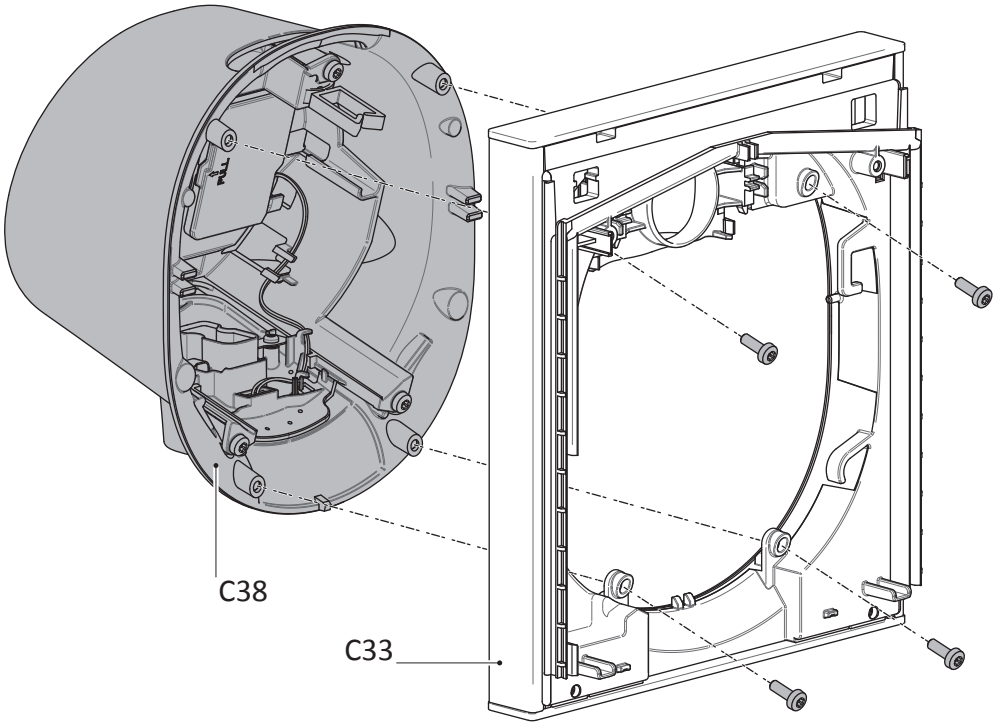


Fig. 61

Prerequisites

- Head base plate is removed → p. 76.
- Capsule recognition is removed → p. 81.

Procedure

1. Loosen 4 screws (TX20) on head base plate (C33).
2. Remove the front cover (C38) from the head base plate (C33).

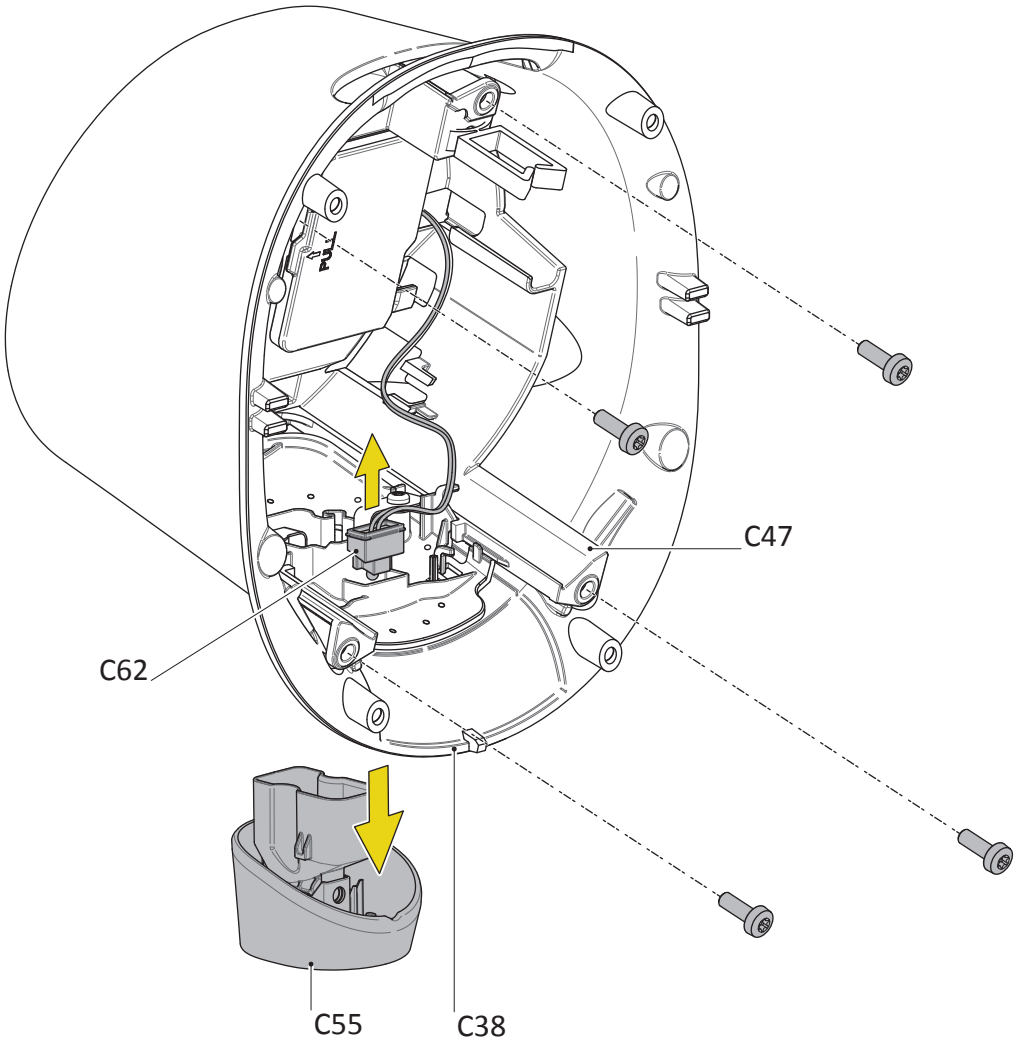


Fig. 62

3. Loosen 4 screws (TX20) on the front cover (C38) from the MMI housing (C47).
4. Pull off the outlet (C55) from the front cover (C38).
5. Pull out the outlet LED (C62).

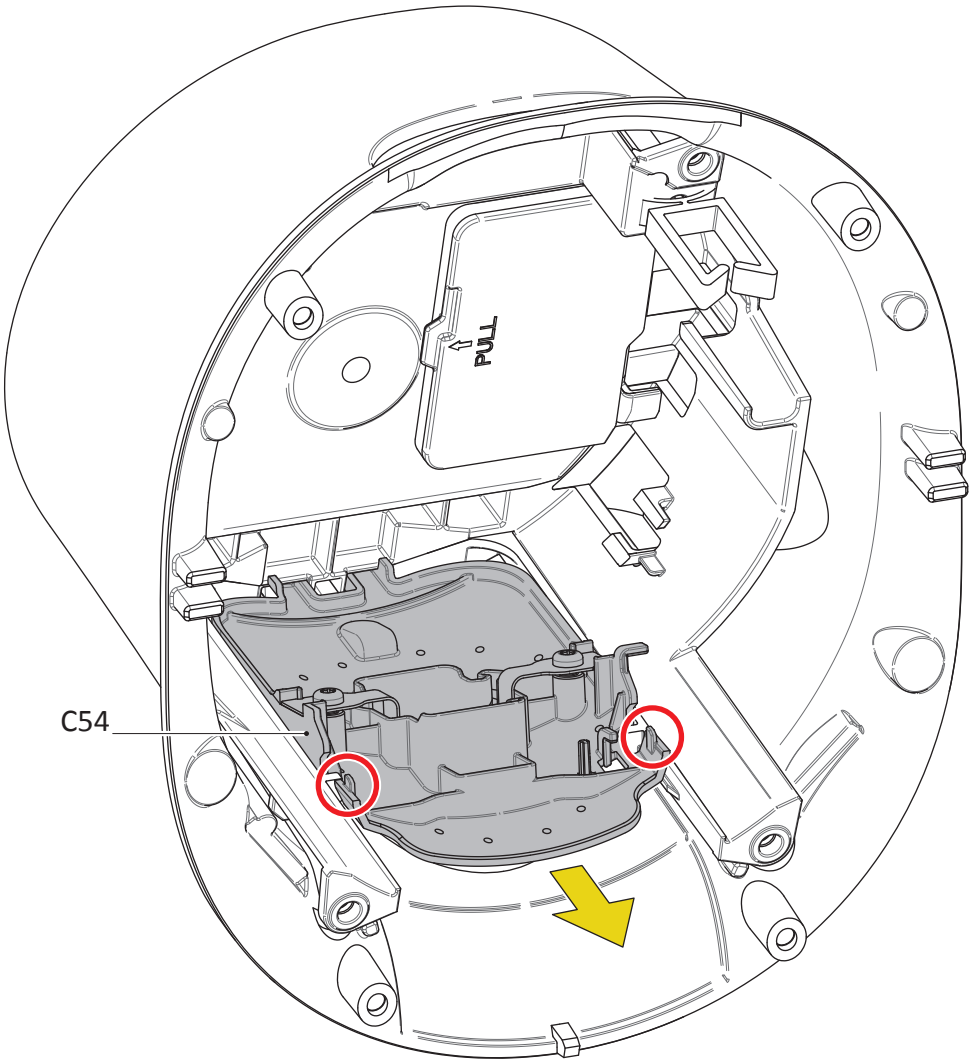


Fig. 63

6. Release 2 latches (circled in red) from the outlet support (C54).
7. Pull out the outlet support (C54).

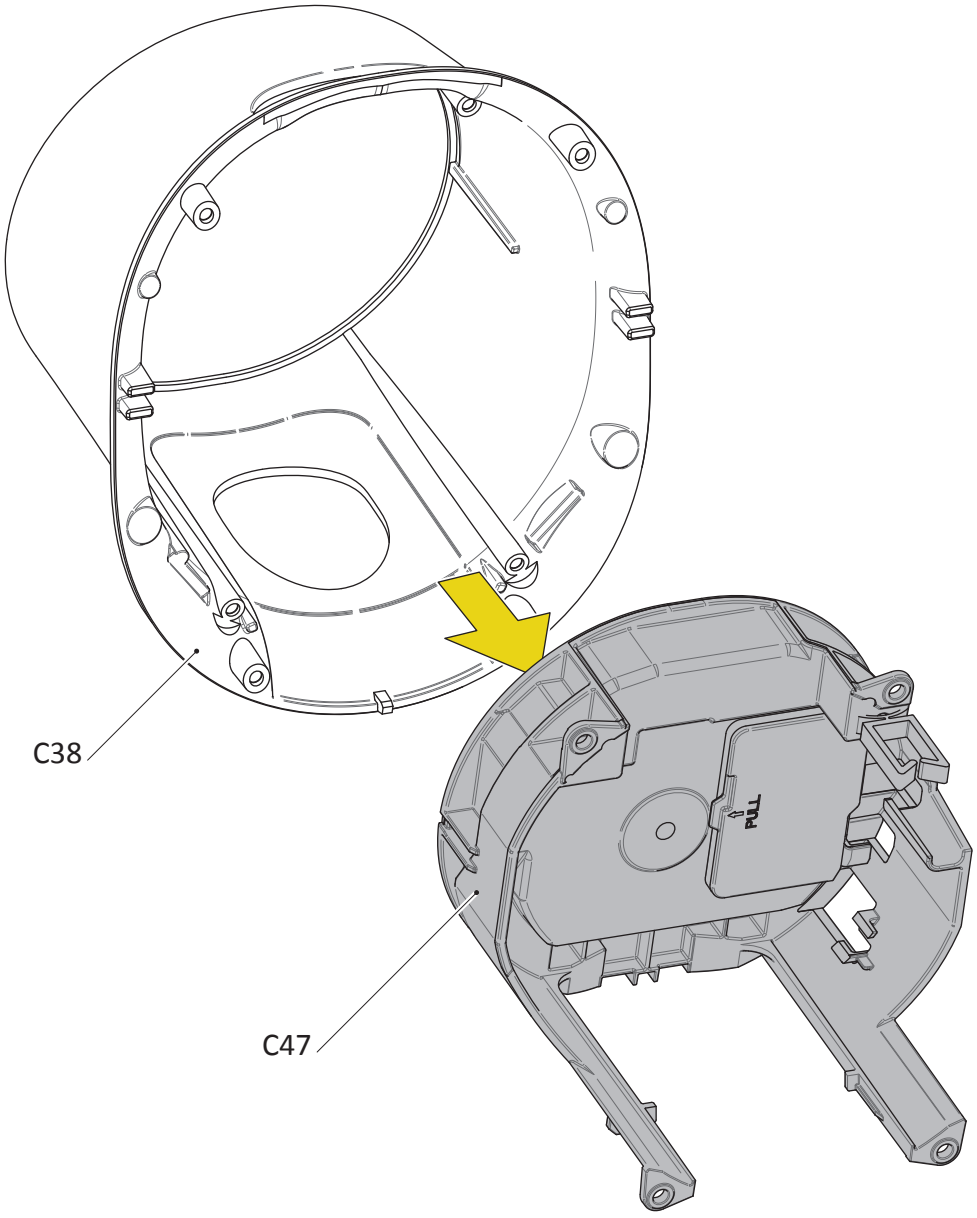


Fig. 64

8. Remove the MMI housing (C47) from the front cover (C38).

Replace valve(s)

- The removal procedure for all valves is the same.
- All valves can be replaced without disassembling the coffee module.

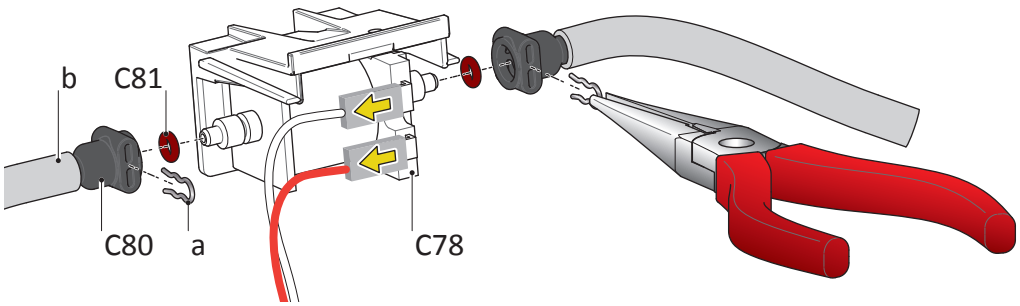


Fig. 65

1. Pull out the connector clips (a) from the hose adapters (C80) with pointed pliers.
2. Pull off the hoses (b) with hose adapter (C80) from the valve (C78).
3. Pull off and discard the O-rings (C81) between valve (C78) and hose adapter (C80).
4. Unplug the flat receptacles from the valve (C78).

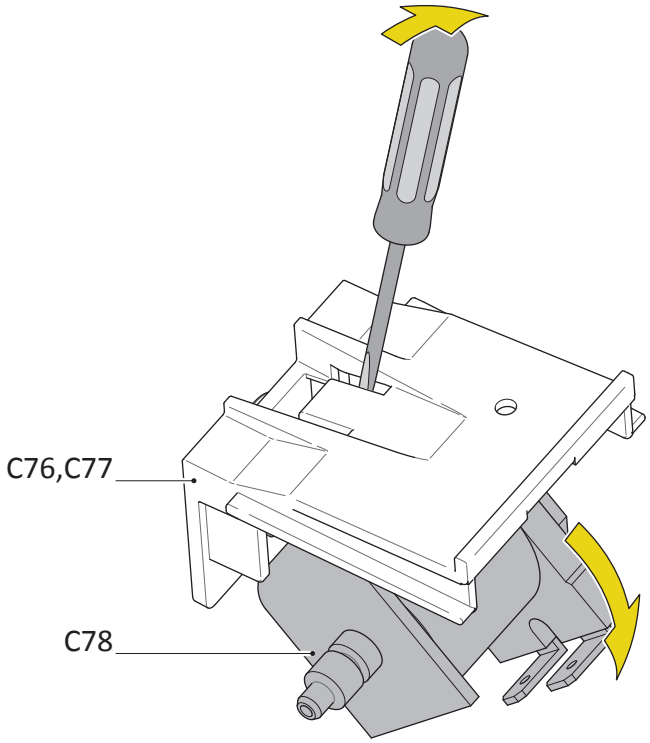


Fig. 66

5. Release the latch from the valve support (C76,C77) with a small flathead screwdriver or another suitable tool.
6. Remove the valve (C78) by tilting it downwards.

Assembly tip

- Always replace the O-ring (C81) seated between a valve (C78) and a hose adapter (C80).

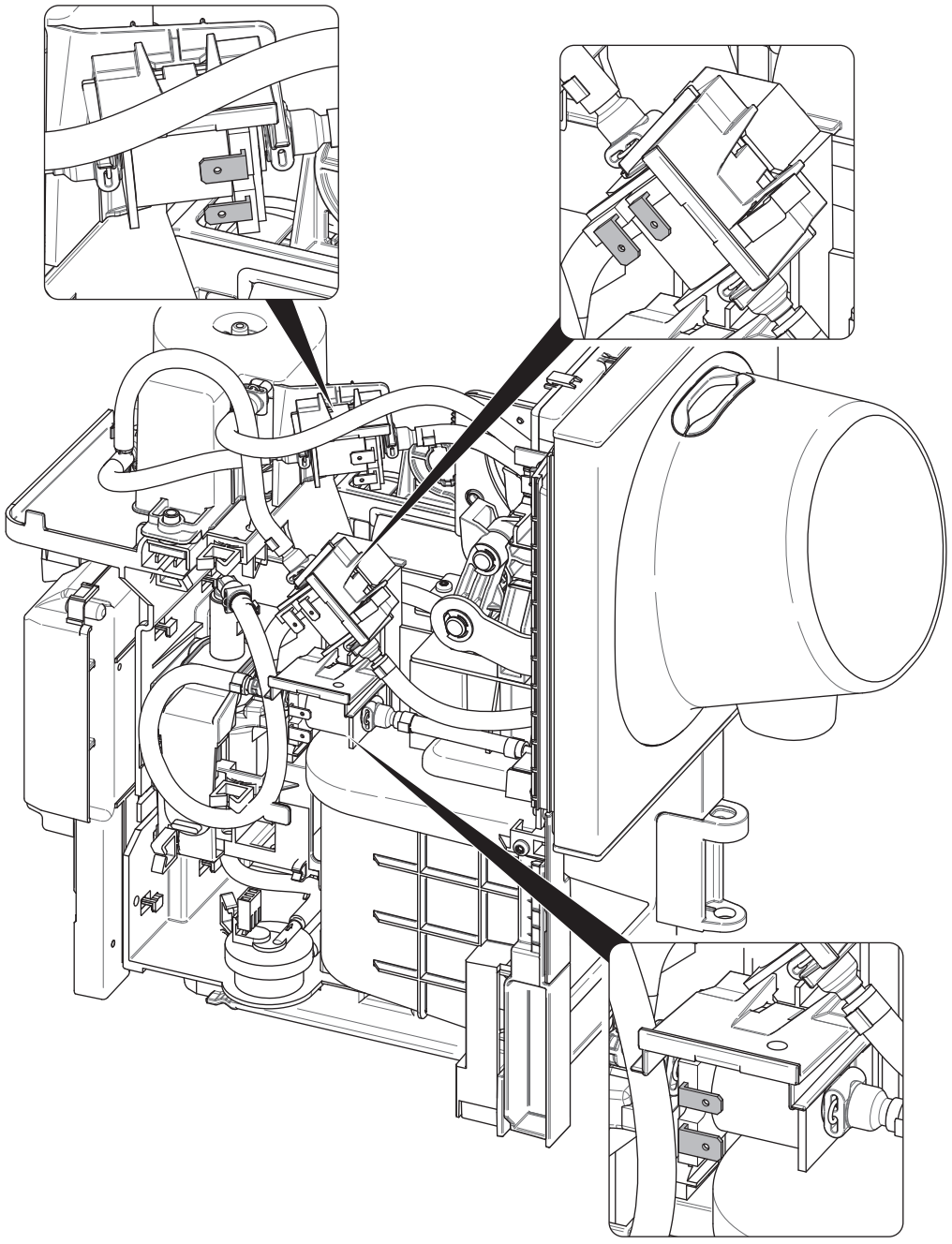


Fig. 67

- Pay attention to the orientation when replacing a valve (C78), use the flat terminals and this illustration as a guide.

Replace thermoblock

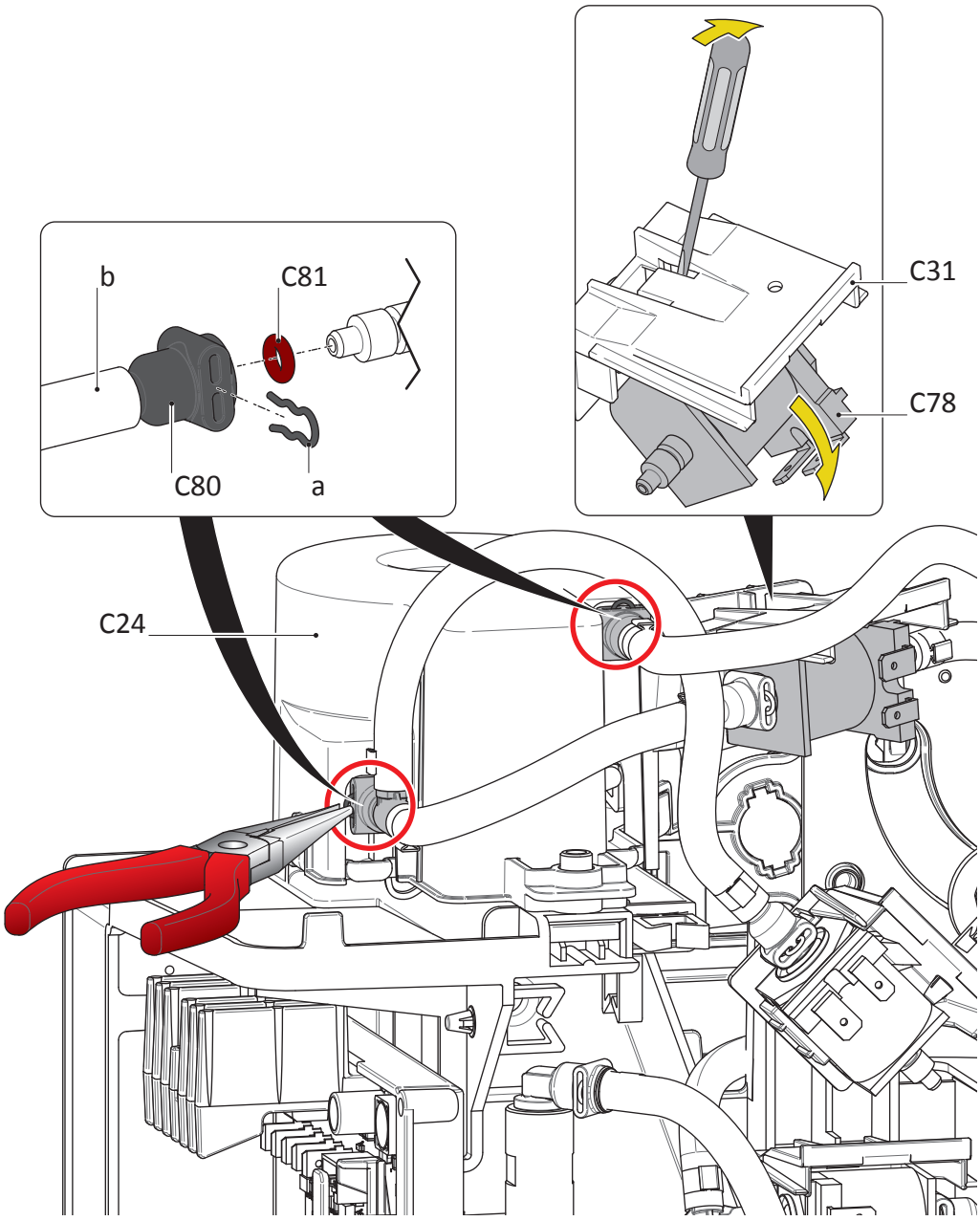


Fig. 68

Prerequisites

- Main PCB cover is removed → p. 74.
- (Optional) Head base plate is removed → p. 76.

Procedure

1. Pull out the black connector clips (a, circled in red) from the hose adapters (C80) with pointed pliers.
2. Pull off the hoses (b) with hose adapters (C80) from the thermoblock (C24).
3. Pull off and discard the O-rings (C81) between thermoblock (C24) and hose adapters (C80).
4. Release the valve (C78) from thermoblock cover (C31) with the help of a small flathead screwdriver (see detail or refer to → p. 87).

It is possible to remove the thermoblock without removing the head base plate: just loosen the screws on the cross beam.

All connector clips for the thermoblock are coloured black. Do not interchange them with other clips from the valves!

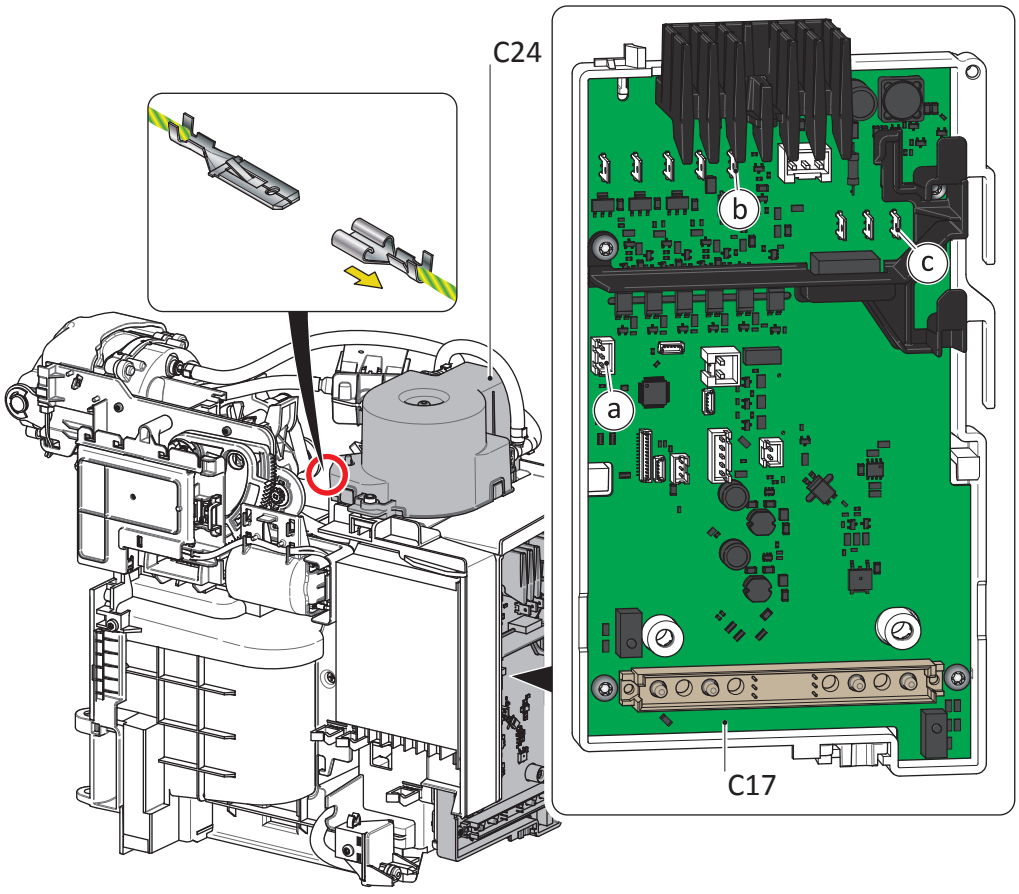


Fig. 69

5. Unplug 3 wires of thermoblock (C24) from the main PCB (C17):
   (a) Thermoblock NTC connector
   (b) Thermoblock control receptacle
   (c) Thermoblock line receptacle
6. Pull the wires out of the guides and wire saddles (C05).
7. Release the flat receptacle of the ground wire at the thermoblock (C24, location circled in red).

This kind of flat receptacle has a special connector latching. Press down the lever with flat nose pliers while pulling on it.

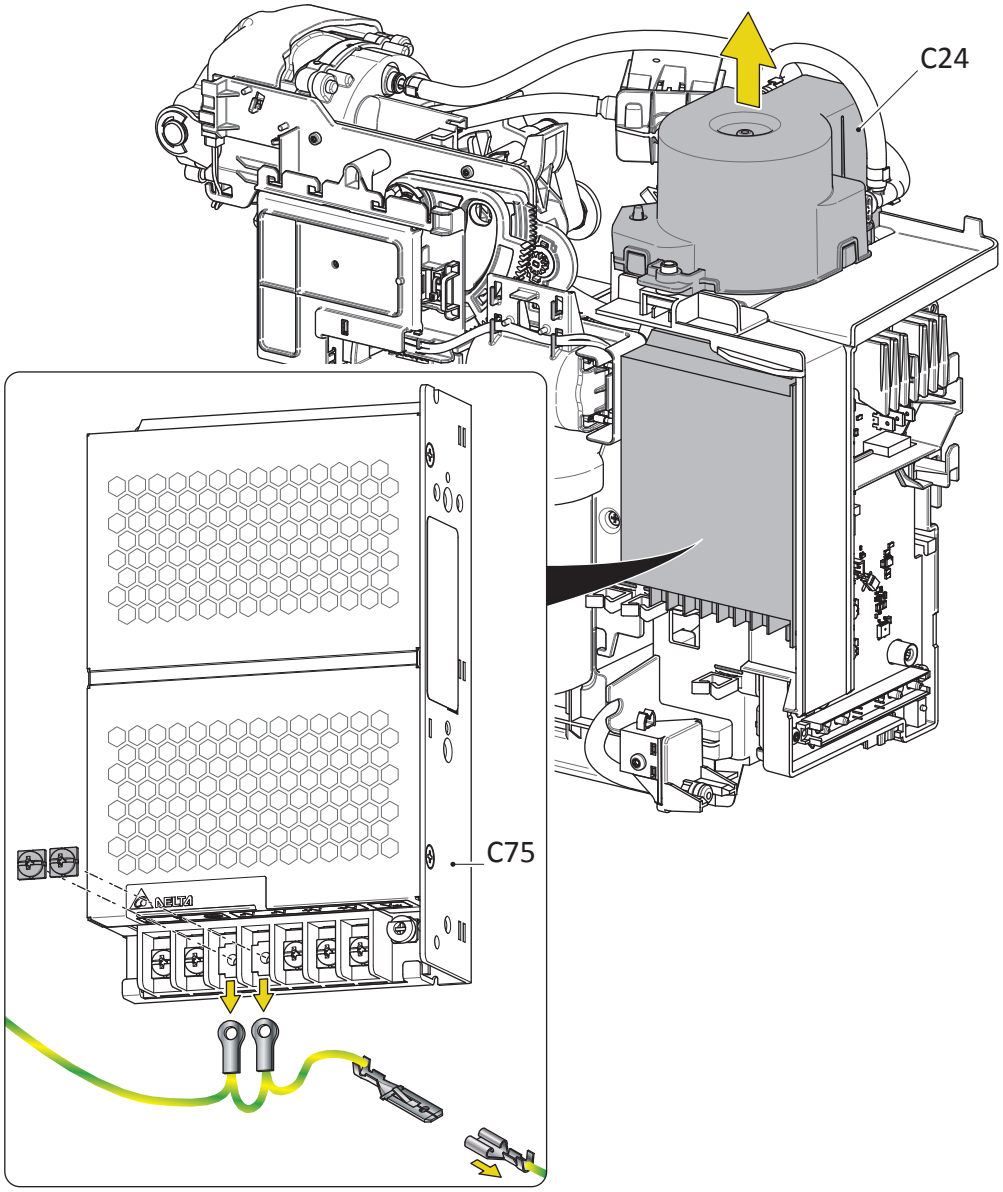
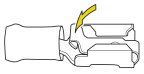


Fig. 70

8. Unscrew 2 flat receptacles of the ground wire from thermoblock (C24) on the power supply (C75).
9. Release the flat receptacle of the ground wire at the power supply (C75).



This kind of flat receptacle has a special connector latching. Press down the lever with flat nose pliers while pulling on it.

10. Pull the wires out of the guides and wire saddles (C05).
11. Lift the thermoblock (C24) off of the coffee module.

Assembly tips

- Make sure that the cross beam (C69) screws are countered with a square nut.
- Only use the black coloured connector clips for the hose adapters (C80) connecting directly to the thermoblock (C24).
- Always replace the O-ring (C81) seated between the thermoblock (C24) and hose adapters (C80).

Replace flowmeter

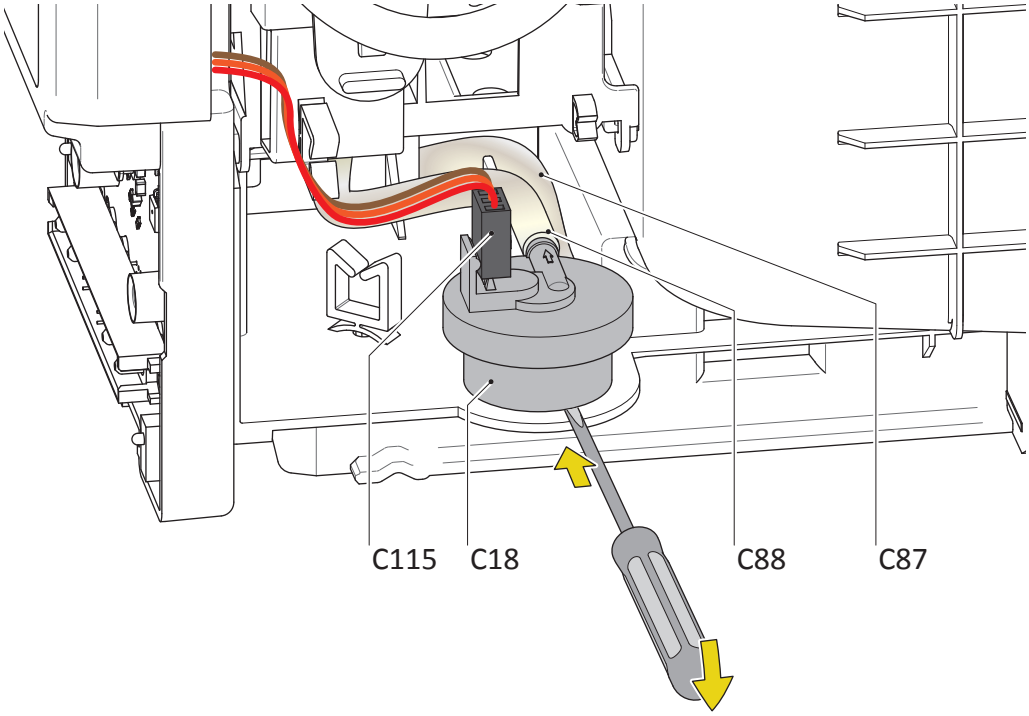


Fig. 71

1. Unplug the flowmeter connector (C115).
2. Pull off the low pressure hoses (C87,C88) coming from the pump (C08) and the coffee module coupling (C02).
3. Insert the blade of a small flathead screwdriver below the flowmeter (C18) and release its locking pin.

Assembly tips

- Be cautious to not interchange the pressure hoses (C87,C88) – risk of malfunction.
- Make sure the connector (C115) is plugged correctly on all 3 pins.

Replace pump

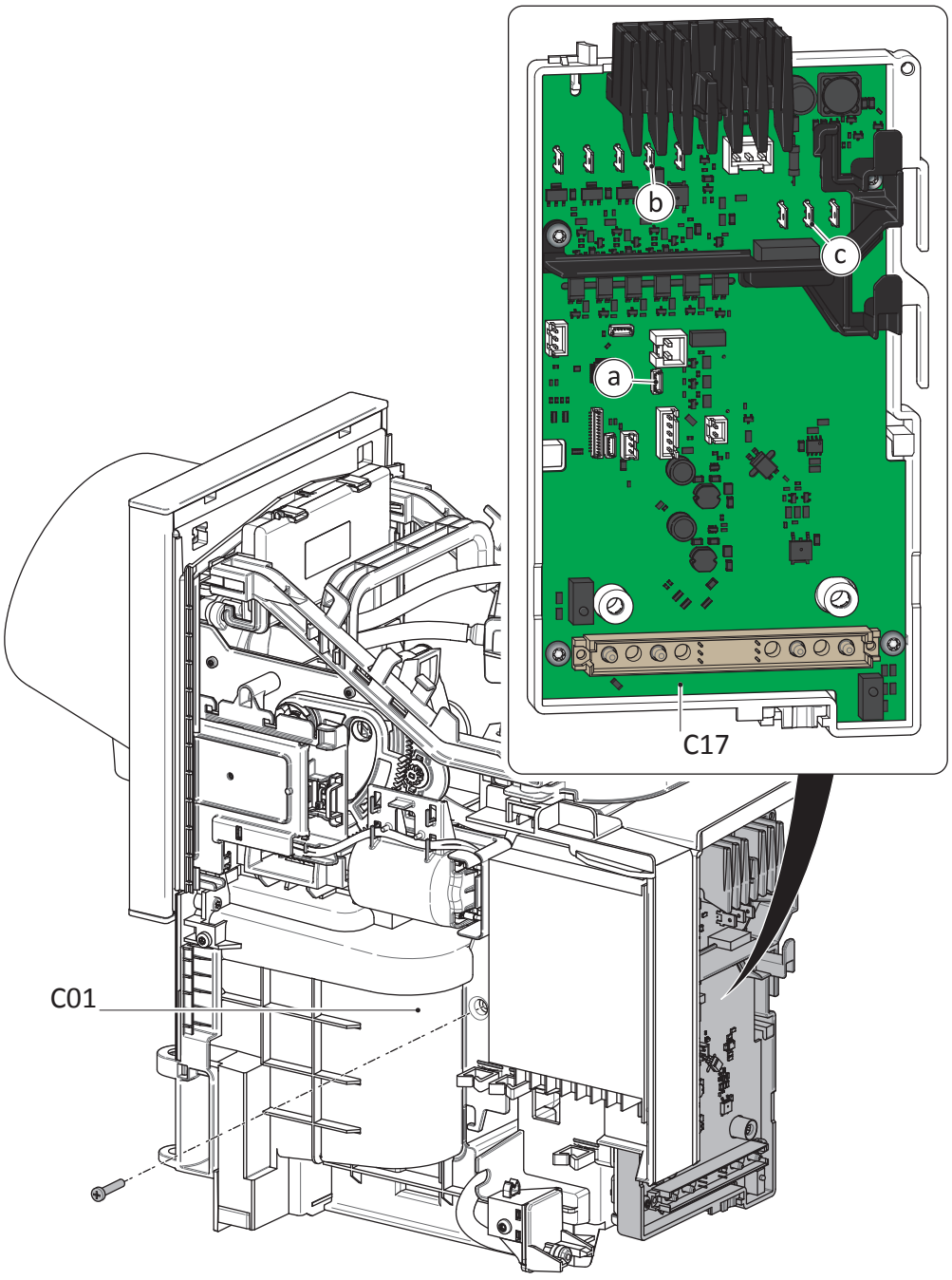


Fig. 72

Prerequisites

- Main PCB cover is removed → p. 74.

Procedure

1. Loosen 1 screw (TX20) on chassis BU (C01).
2. Unplug the 3 wires of the pump (C08) from the main PCB (C17):
   (a) Capsule container detection connector
   (b) Pump control receptacle
   (c) Pump line receptacle

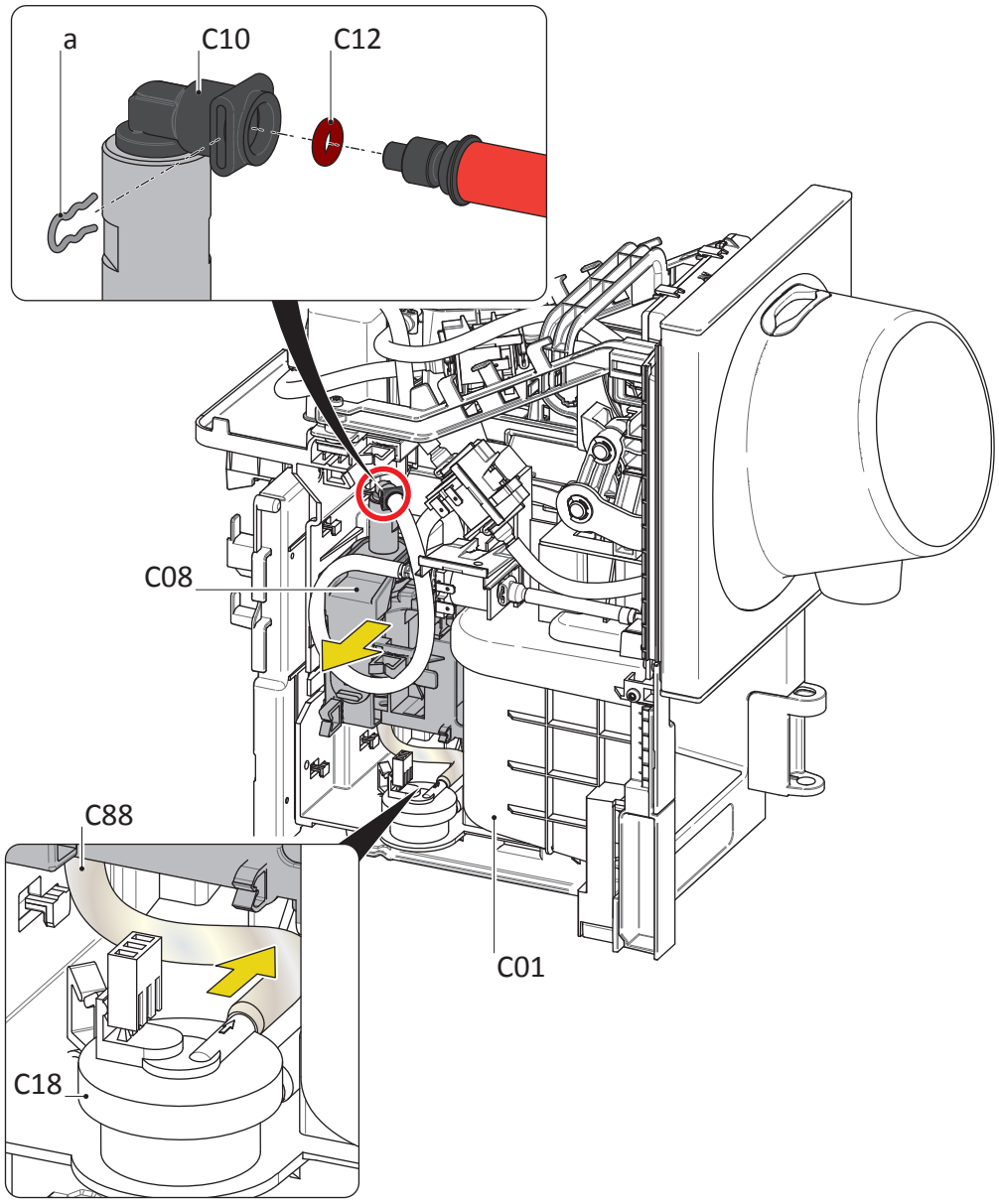


Fig. 73

3. Pull the wires out of the guides and wire saddles (C05).
4. Pull off the upper low pressure hose (C88) from the flowmeter (C18).
5. Pull out the connector clip (a) from the pump connector (C10, see detail) with pointed pliers.
6. Pull off and discard the O-ring (C12) between pressure hose and pump connector (C10).
7. Slide the pump (C08) out of chassis BU (C01).

Assembly tips

- Always replace the O-ring (C12) seated between pump connector (C10) and pressure hose.
- Do not twist or fold the pressure hose (C88) to the flow meter (C18) – water must be able to flow free of resistance.

Replace main PCB

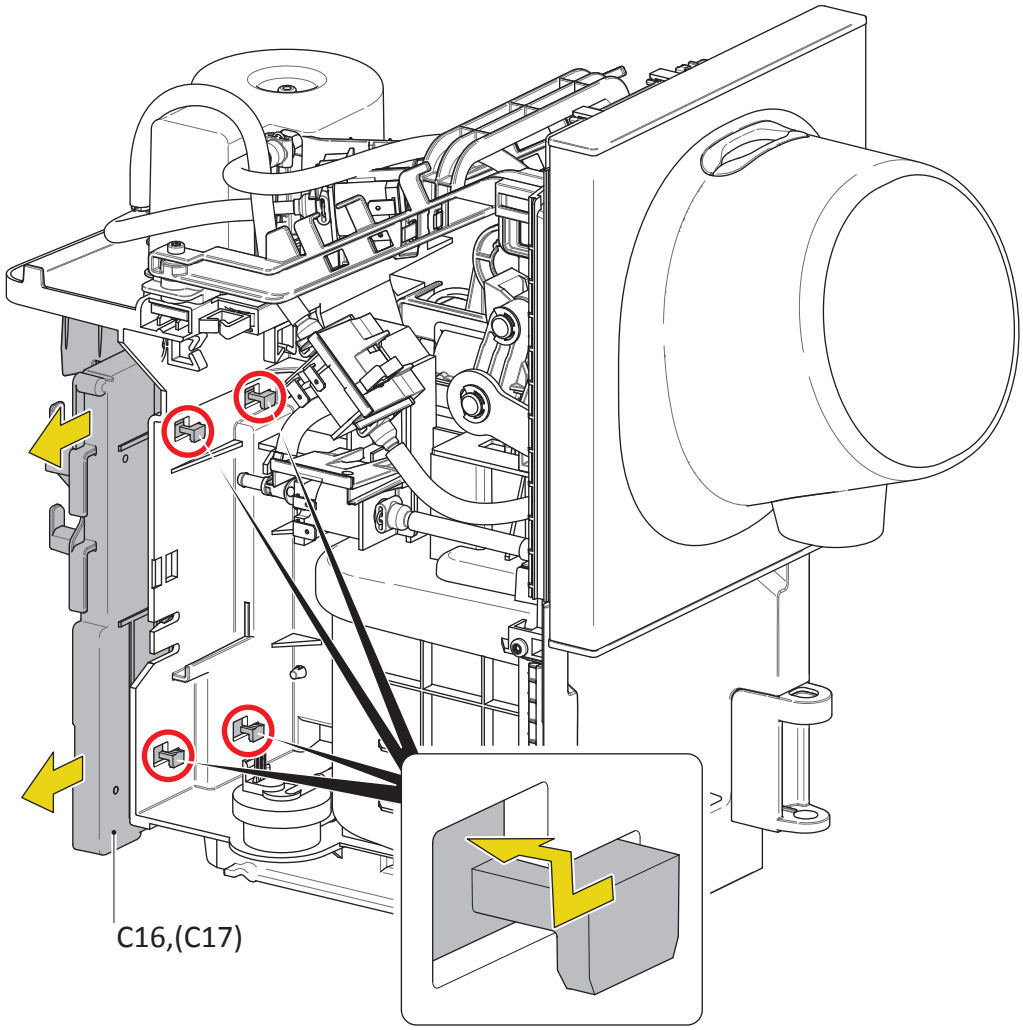


Fig. 74

ℹ The illustration shown is with the pump removed – for better visibility.

Prerequisites

- Main PCB cover is removed → p. 74.

Procedure

1. Unplug all connectors and receptacles from the main PCB (C17).
2. Pull on the main PCB housing (C16) until you hear it click.
3. Lift the main PCB (C17) and housing (C16) out of its slots (circled in red).

Replace power supply

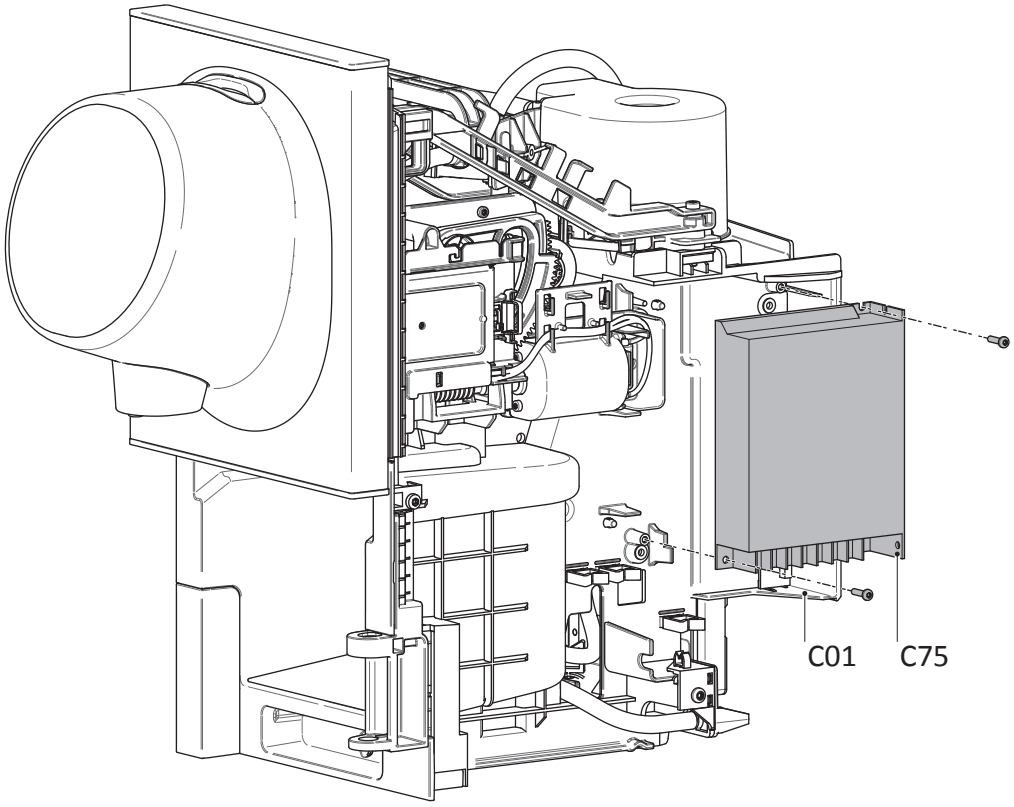


Fig. 75

1. Unscrew all flat receptacles on the power supply (C75).
2. Loosen 2 screws (TX10) on chassis BU (C01).
3. Remove the power supply (C75).

Replace brewing unit (maintenance kit)

This procedure should be done at least every 48’000 cycles.

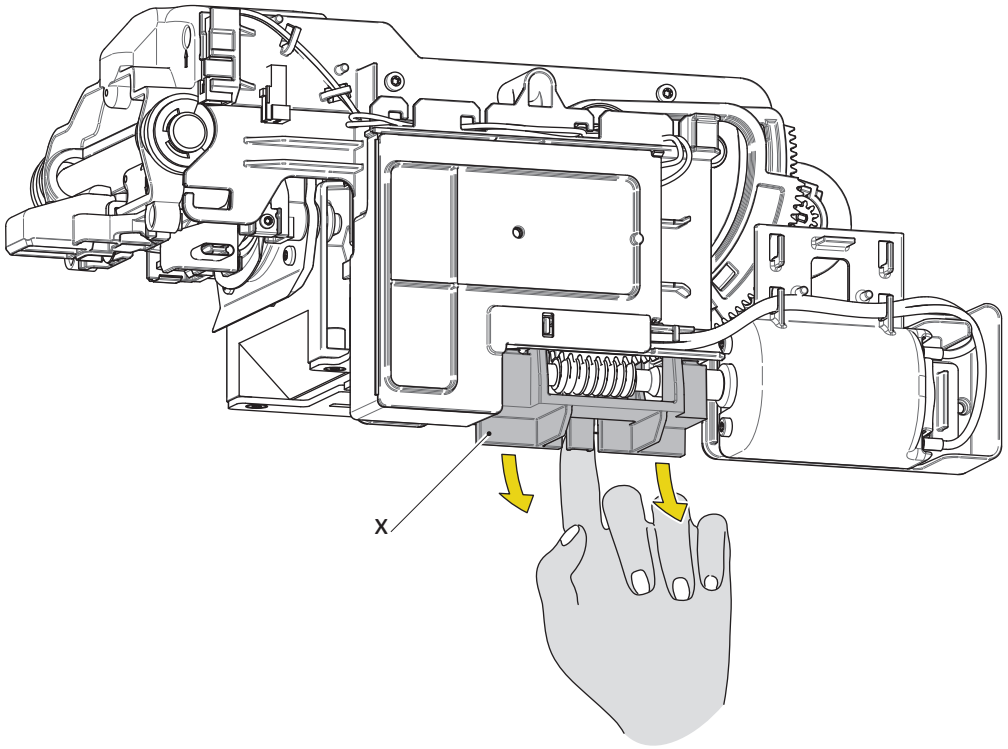


Fig. 76

i The brewing unit does not need to be detached from the coffee module for maintenance.

Prerequisites

- Head base plate is removed → p. 76.

Procedure

1. Release the latch of the worm gear support (x) and remove the support (x).

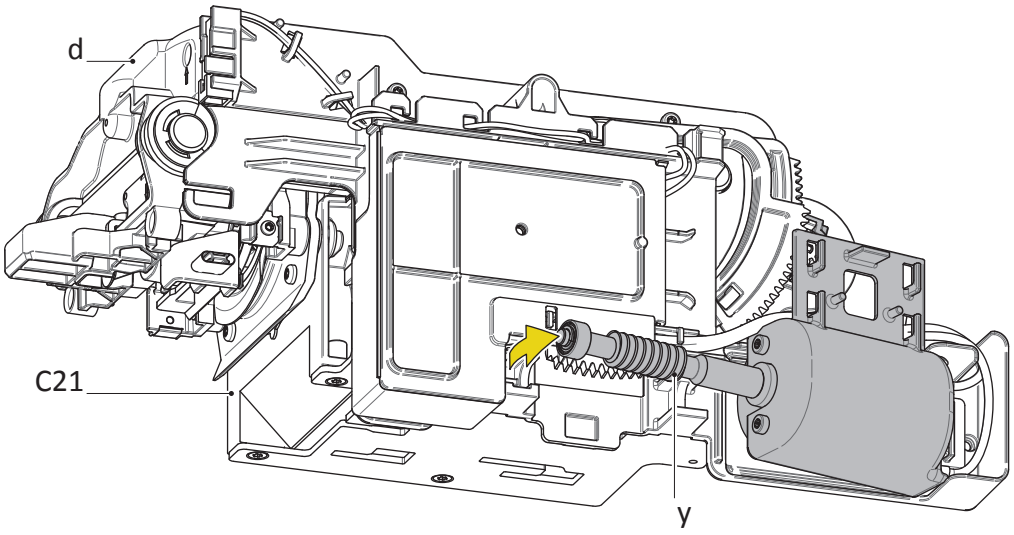


Fig. 77

2. Slightly pull out the worm gear (y) to be able to freely move the brewing unit (C21) front assembly (d).

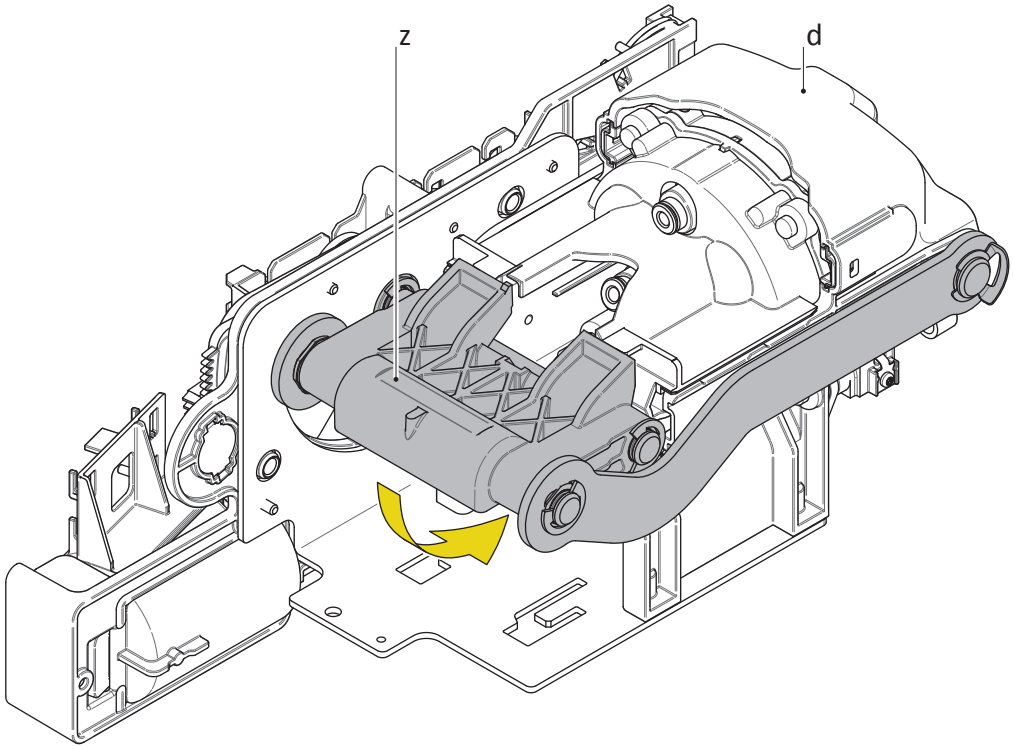


Fig. 78

3. Push down the base handle (z) as far as it will go to move the front assembly (d) into “open”-position.
4. Re-insert the worm gear (y) and worm gear support (x).

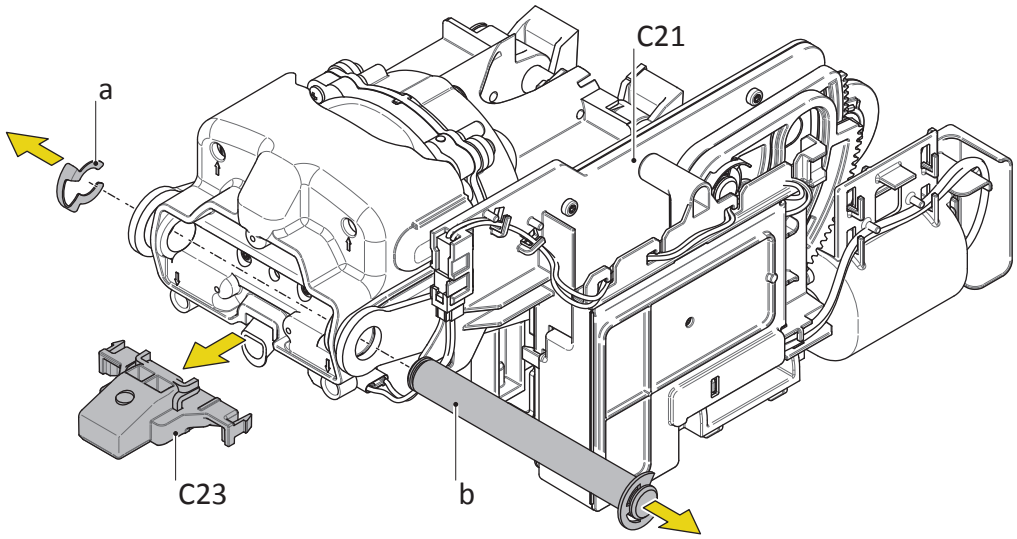


Fig. 79

5. Unclip the steam hood (C23) and remove it from the brewing unit (C21).
6. Detach the angular circlip (a) from the front axle (b) and remove the front axle (b).

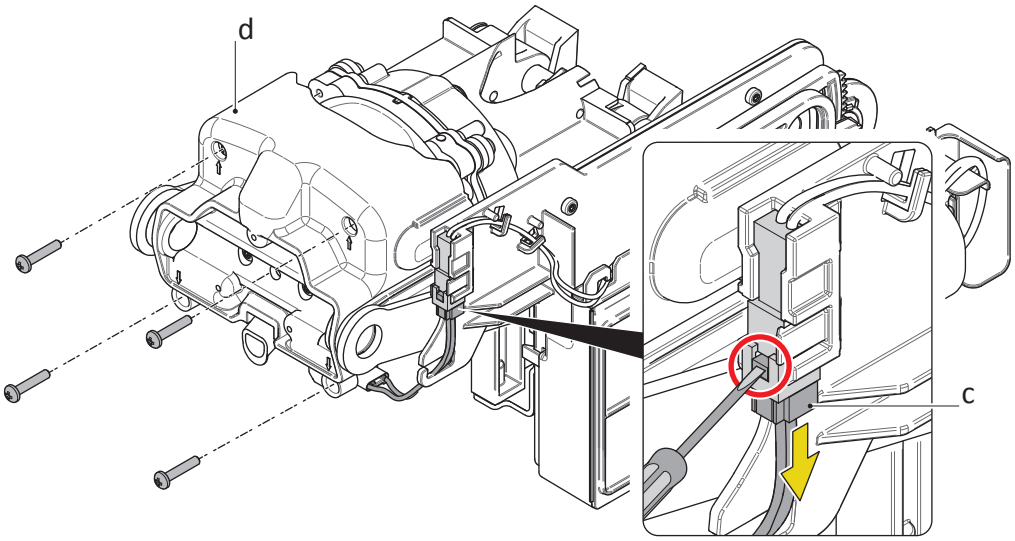


Fig. 80

7. With the help of a small screwdriver, release the latch and unplug the coil connector (c, see detail).
8. Loosen 4 screws (crosshead) on the front assembly (d). These can be disposed of.

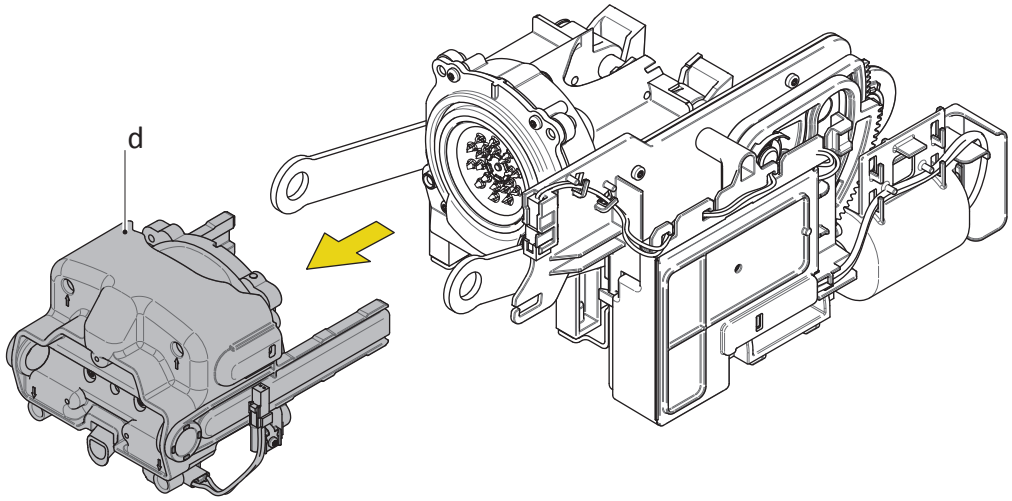


Fig. 81

9. Remove and dispose of the front assembly (d).

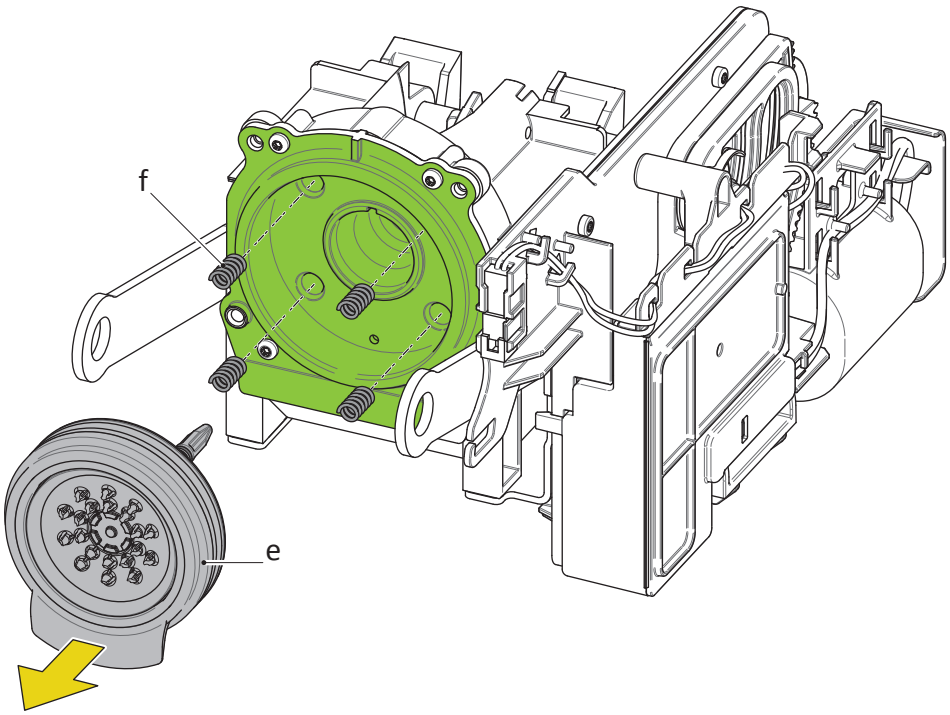


Fig. 82

10. Pull out the piston (e) by hand.
11. Pull out the 4 piston springs (f).
12. Clean the piston skirt inside and housing (green area) with a cleaning cloth.
13. Put in the 4 piston springs (f) again.
14. Insert a new piston (e) after greasing all its seals (Molykote 111).

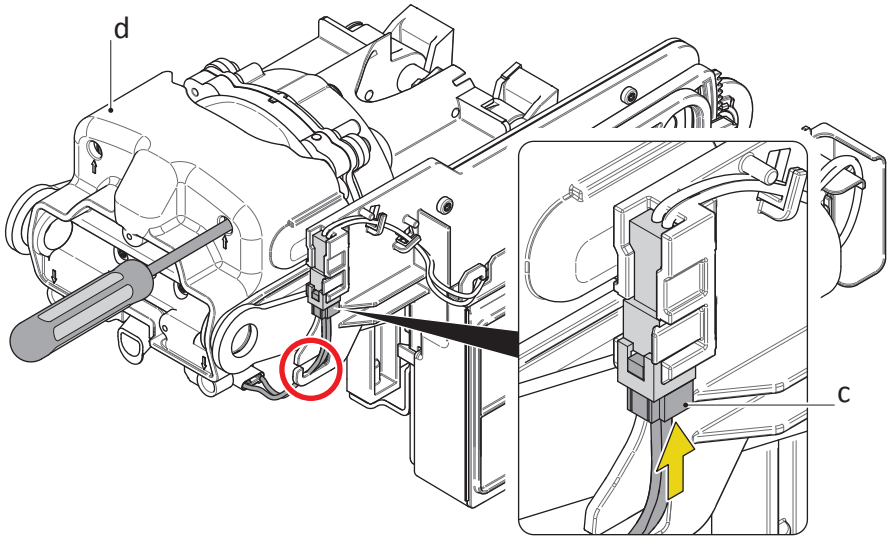


Fig. 83

15. Insert a new front assembly (d) and tighten the 4 screws (crosshead).
16. Pull the coil connector (c) through the cable guide (red circle) and plug it in (see detail).

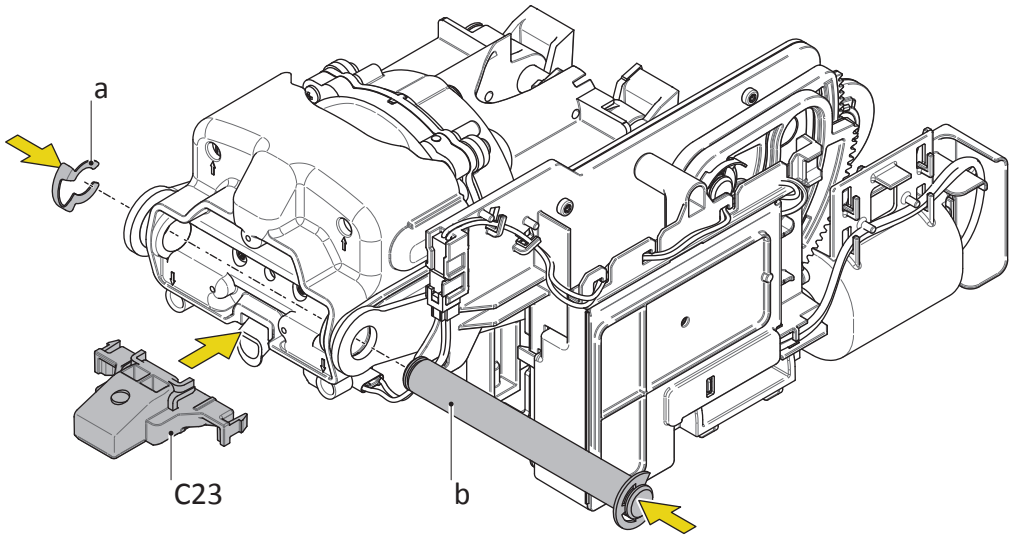


Fig. 84

The angular circlip must be mounted on the correct side!

17. Insert the front axle (b) and attach the angular circlip (a).
18. Insert the steam hood (C23).

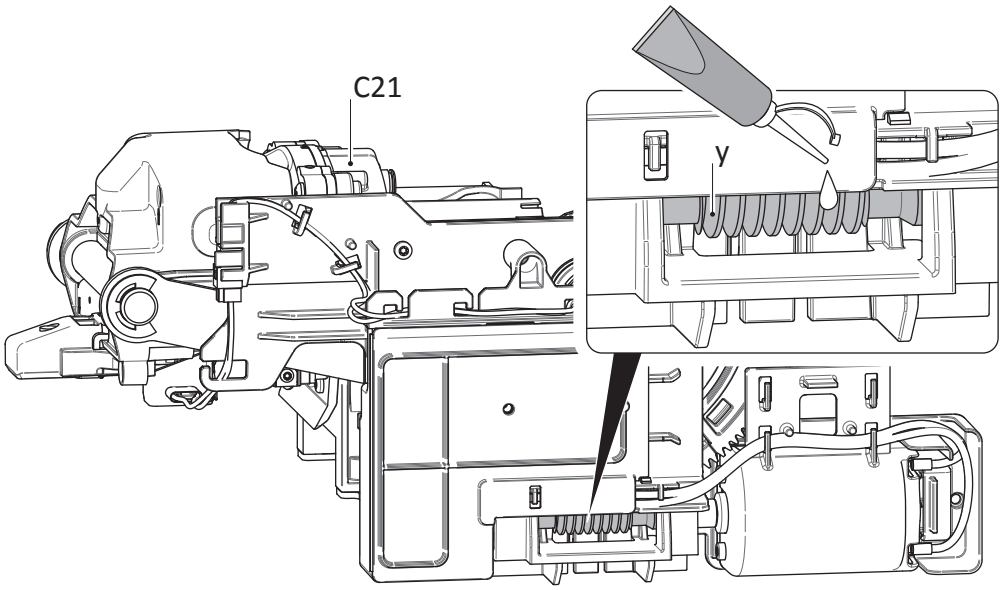


Fig. 85

19. To finish the maintenance of the brewing unit (C21), grease the worm gear (y) of the motor (see detail) with Elkalub GLS 993 H1.

Replace complete brewing unit (MHBU)

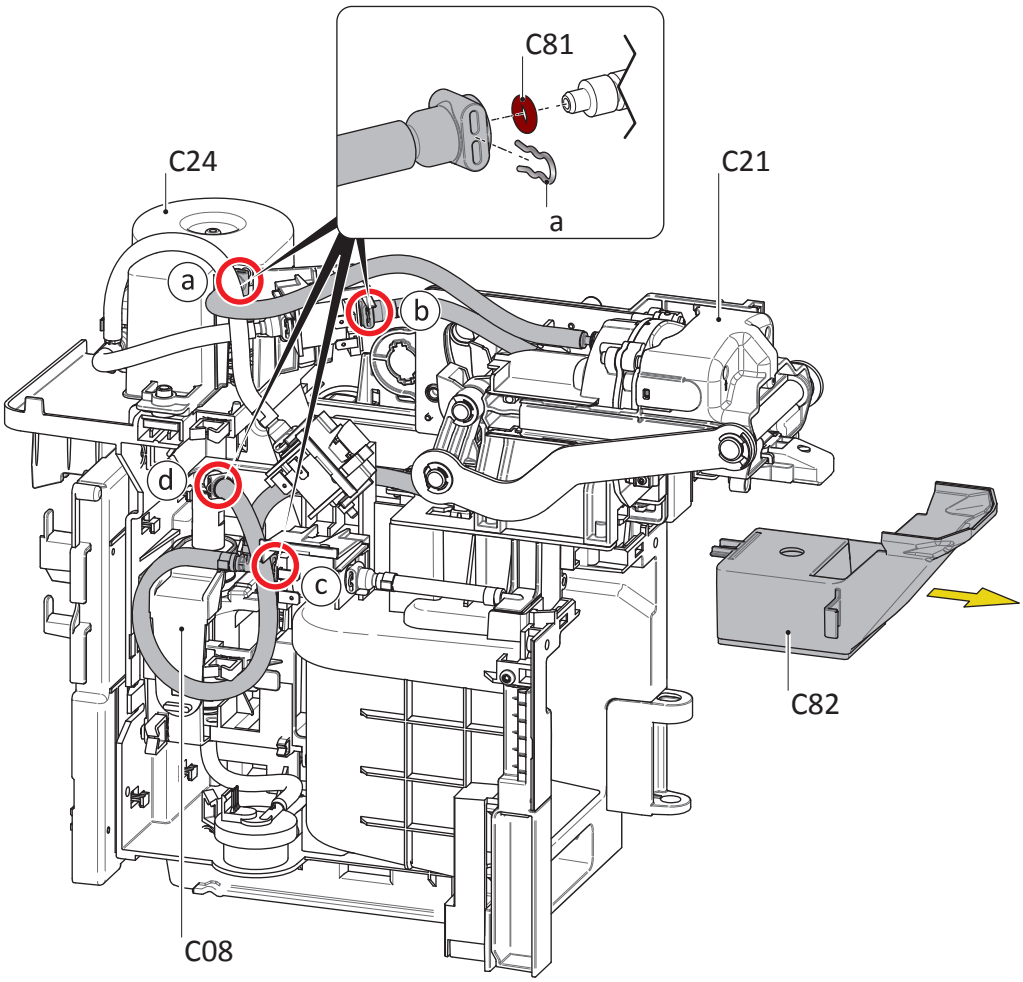


Fig. 86

Prerequisites

- Main PCB cover is removed → p. 74.
- Head base plate is removed → p. 76.

Procedure

1. Pull out the capsule chute (C82) at the front.
2. Pull out the connector clips (a) and detach the following hose connectors (circled in red) together with the attached pressure hoses:
   (a) Brewing unit (C21) to thermoblock (C24)
   (b) Brewing unit (C21) to top valve (C78)
   (c) Brewing unit (C21) to bottom valve (C78)
   (d) Bottom valve (C78) to pump (C08)
3. Discard the O-Rings (C81) from the detached connectors.

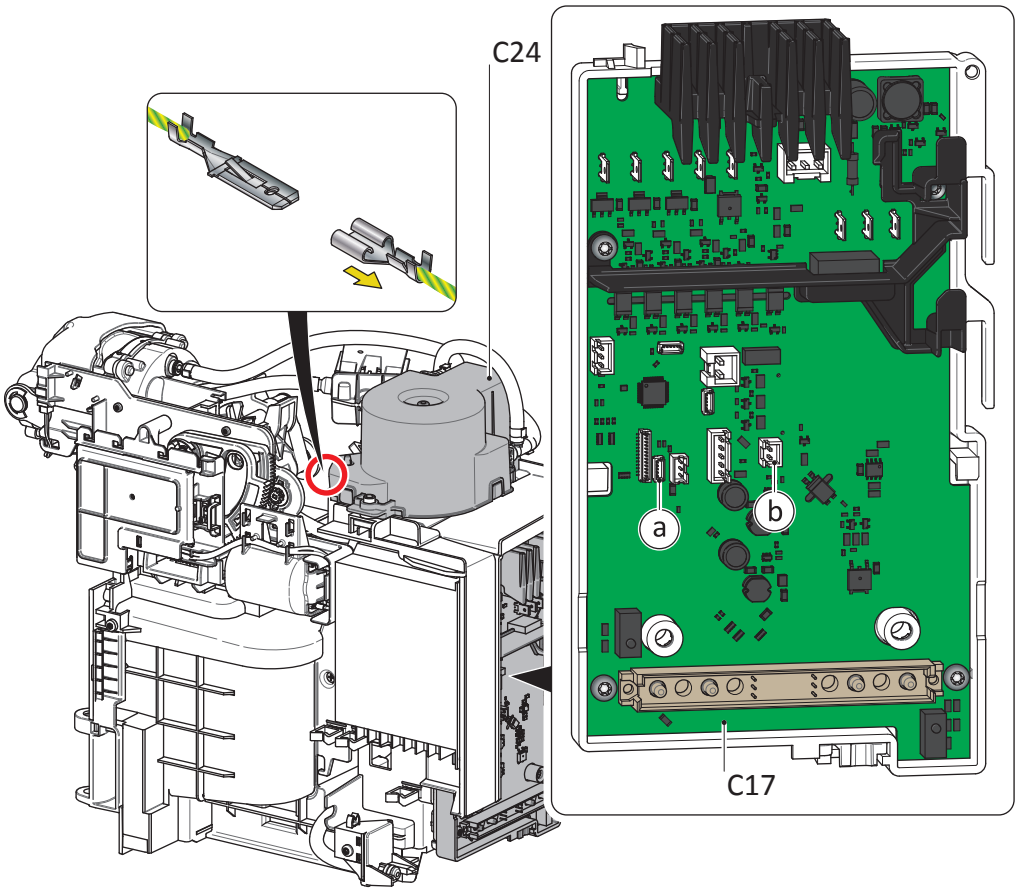
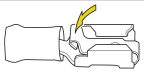


Fig. 87

4. Release the flat receptacle of the ground wire at the thermoblock (C24, location circled in red).



This kind of flat receptacle has a special connector latching. Press down the lever with flat nose pliers while pulling on it.

5. Unplug 2 connectors (see detail) from the main PCB (C17):
   (a) MHBU connector
   (b) MHBU power connector
6. Pull the wires out of guides and wire saddles (C05).

The illustration shown is with the thermoblock, valves and pressure hoses removed – for better visibility.

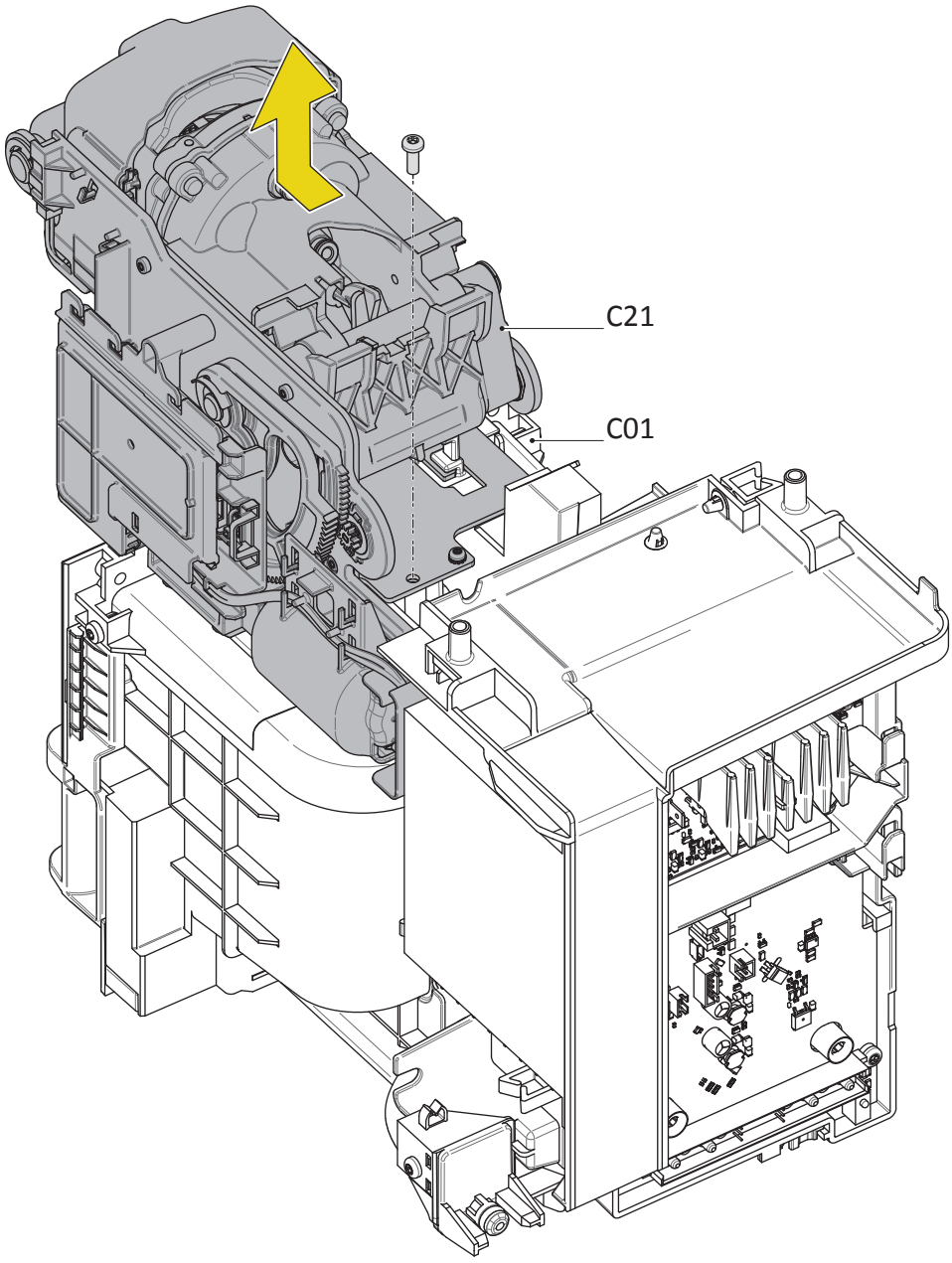


Fig. 88

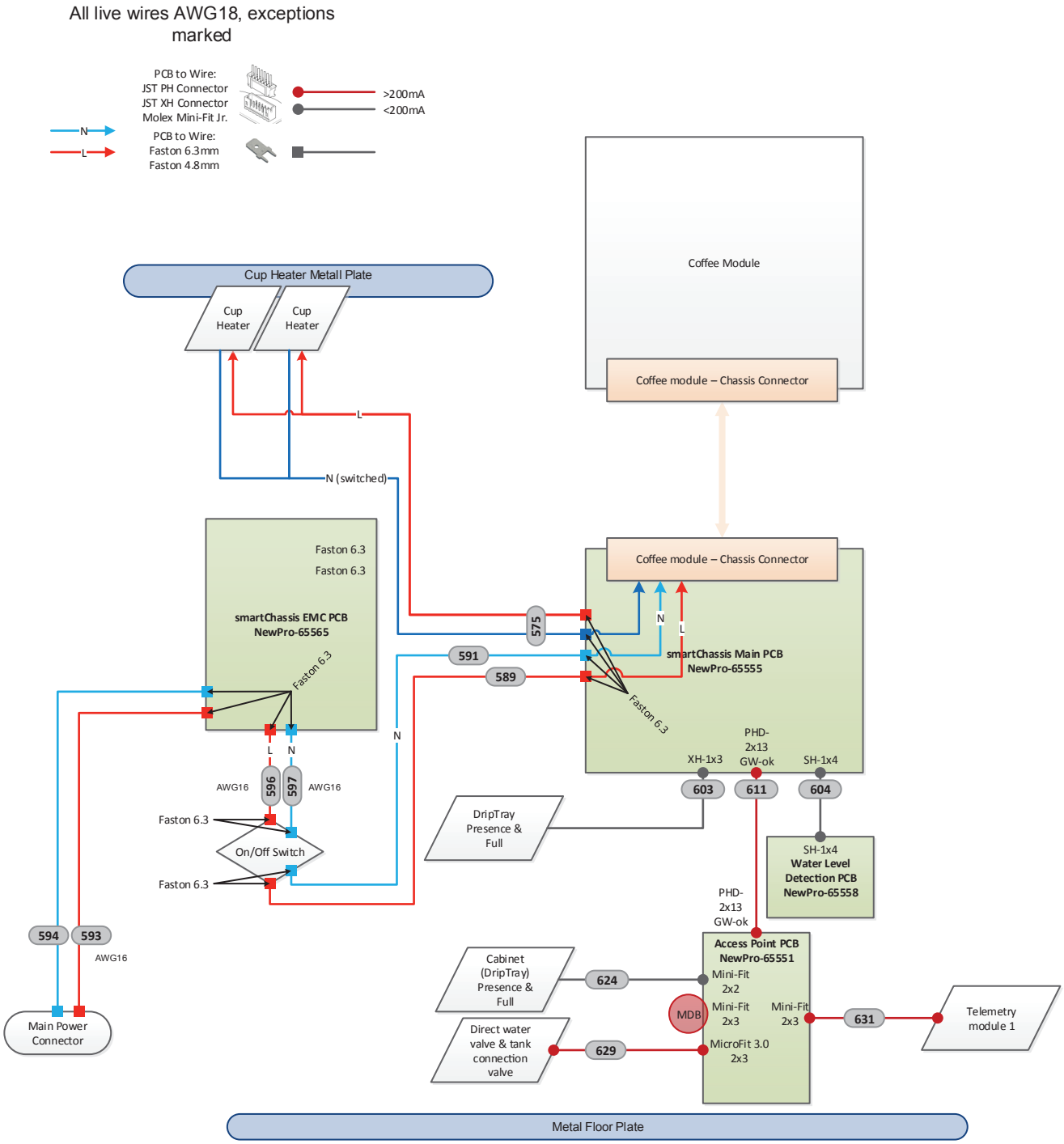
7. Loosen 1 screw (TX20) on the brewing unit (C21).
8. Slide the brewing unit forward and lift it up at the same time to remove it from chassis BU (C01).

Assembly tips

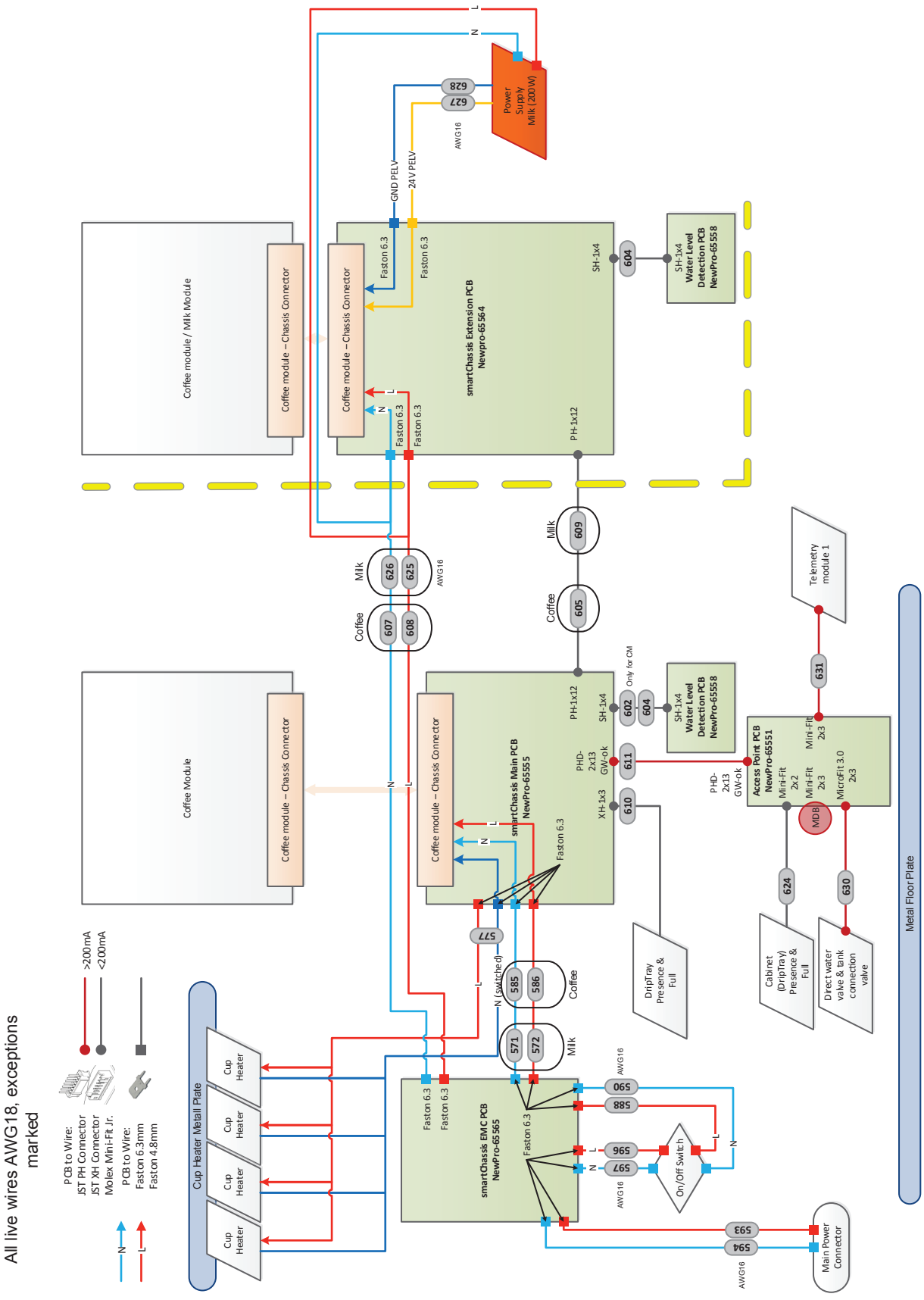
- Only use the black coloured connector clip for the hose adapter (C80) connecting directly to the thermoblock (C24).
- Always replace the O-ring (C81) seated between the thermoblock (C24) and hose adapter (C80).
- Always replace the O-rings (C81) seated between valves and hose adapters (C80).
- Always replace the O-ring (C12) seated between pump connector (C10) and pressure hose.

WIRING DIAGRAMS

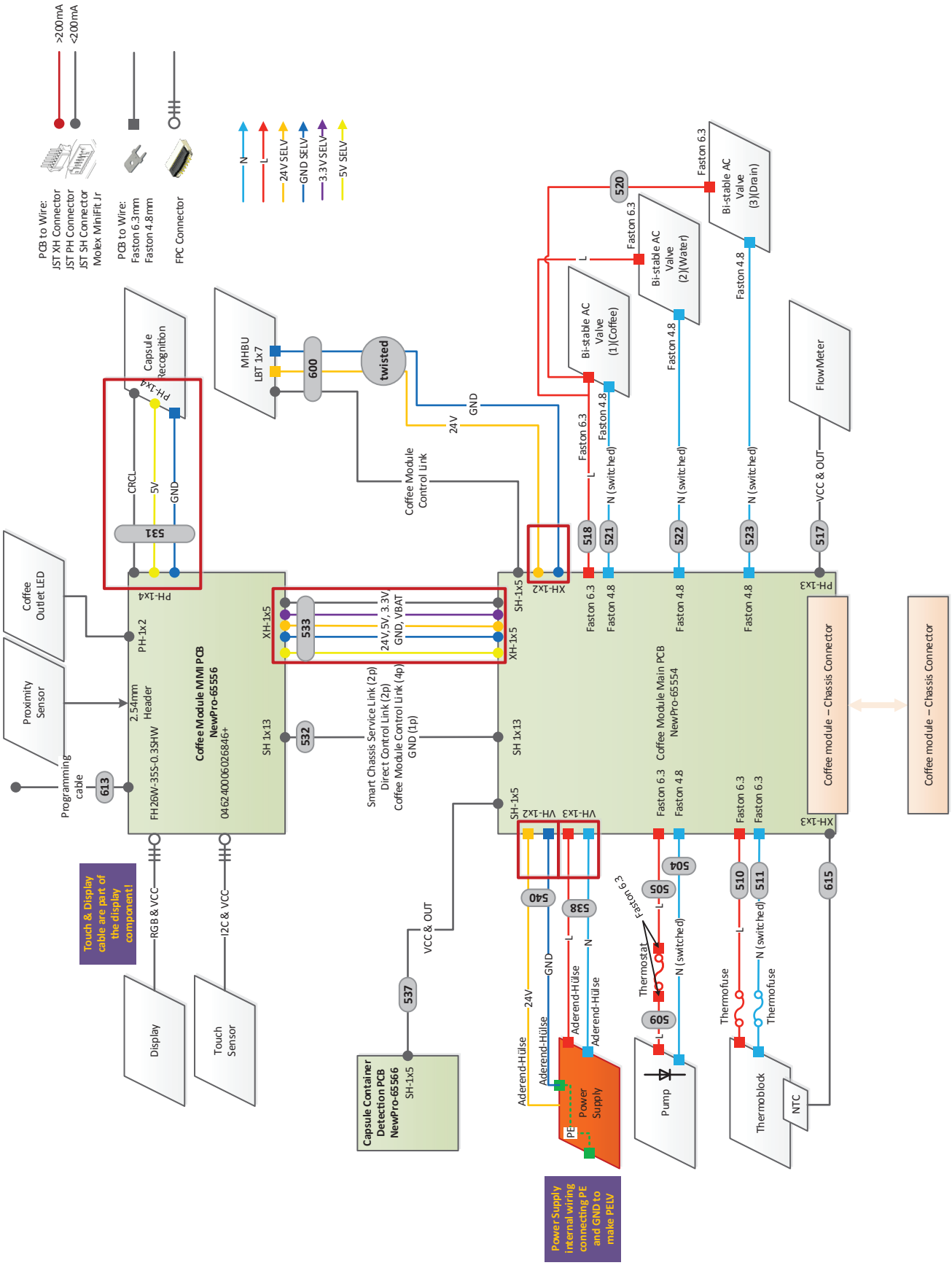
Momento 100 Chassis



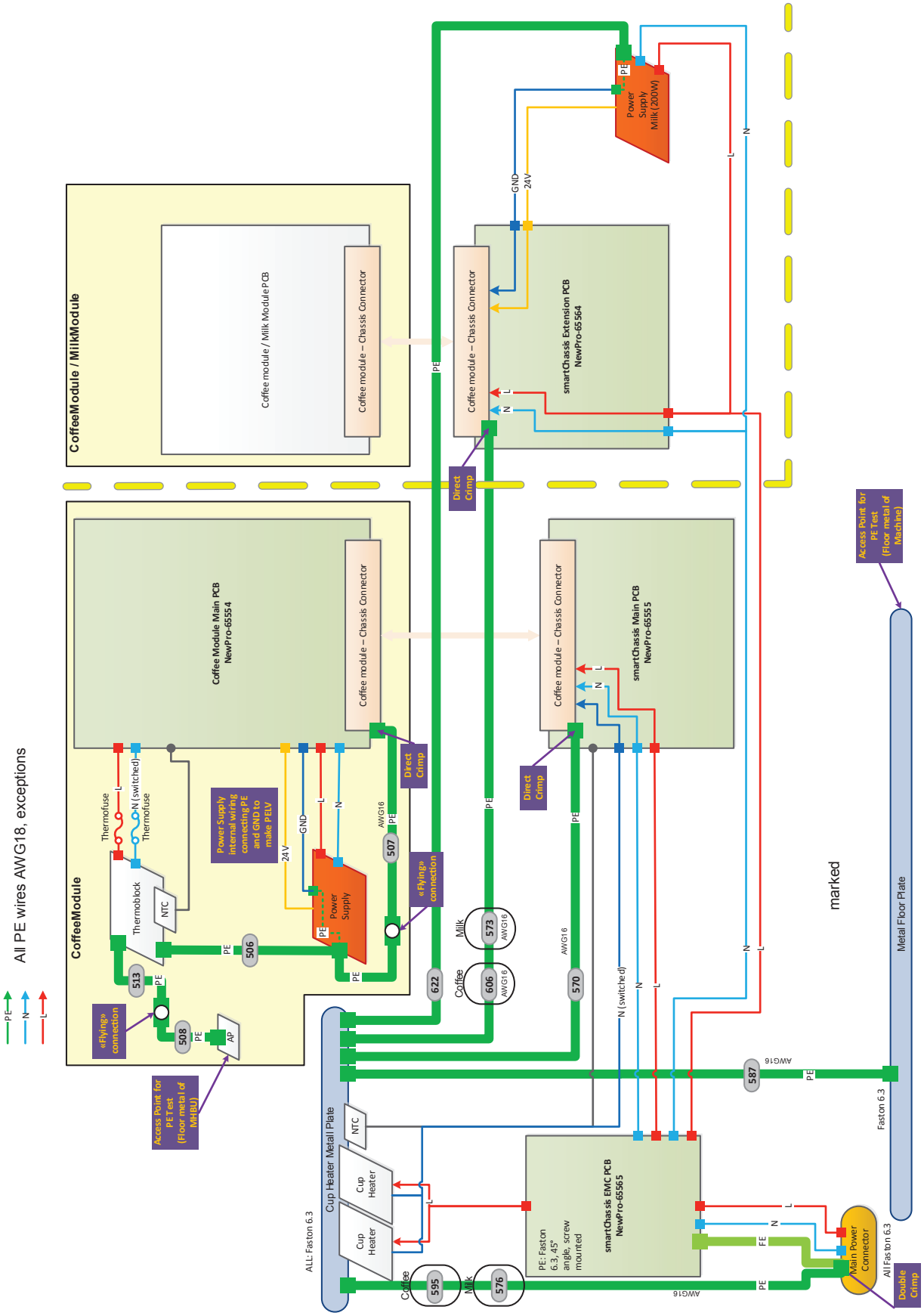
Momento 120/200 Chassis



Coffee Module



PE Distribution



FINAL TESTS

A *Nespresso* technician with special training and test equipment is required for testing the coffee machine after the initial installation at the customer.

Required test equipment

- Portable electric safety tester
  - for tests according to EN/IEC 60335-1 and applicable national standards,
  - equipped with a national power socket and test probe(s).

Tests to be carried out

- Protective earth continuity test
- Protective insulation test

Danger of electrocution!
Mains voltage inside the coffee machine.
Do not touch any live part while performing tests.

Read and observe the safety instructions in the user manual of the test equipment.

The metal surface at a test point can oxidise. Scratch the metal surface with the tip of the test probe to achieve a good electrical contact.

Protective earth (PE) resistance test

- Plug the power cord of the coffee machine into the power socket on the electric safety tester.
- Switch on the electric safety tester and start the protective earth continuity test.
- Touch the following test points with a test probe and check if the measured ground resistance is below 0.3 Ohm:

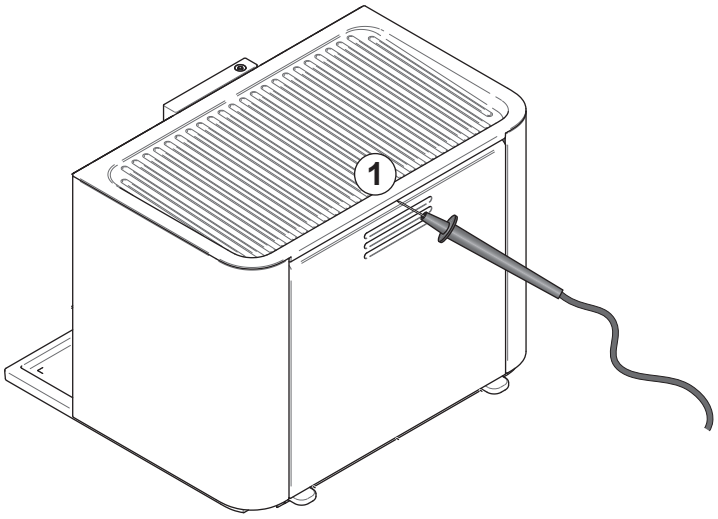


Fig. 89

1. Cup heater plate at the rear of the coffee machine: Touch the aluminium rib at the middle of the underside with the test probe.

The capsule containers must be removed.

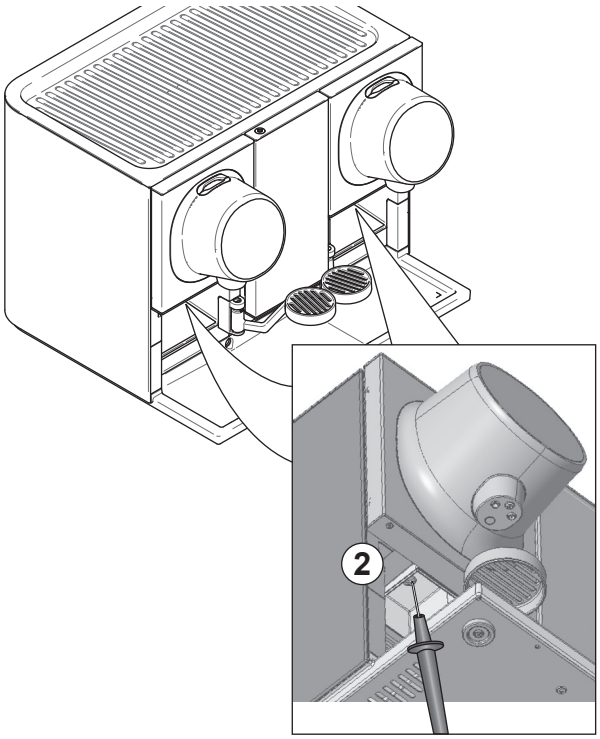


Fig. 90

2. At each coffee module: Insert the test probe into the test hole which is located in the capsule ejection opening.

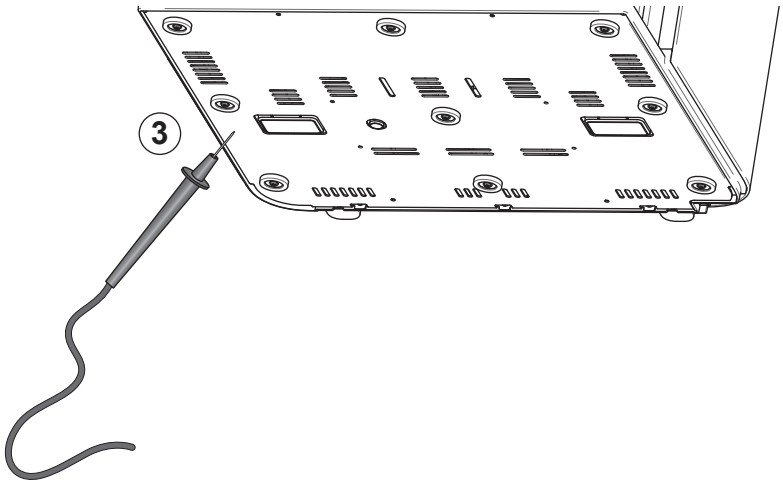


Fig. 91

3. Touch the bottom plate with the test probe.

What to do if this test fails?

- Remove the coffee modules. Check the ground wiring and ground terminals in the main housing and coffee modules.
- Perform further, detailed measurements with the electric safety tester. Localize and rectify any faults occurring.
- Check/replace the power cord.

Protective insulation resistance test

The protective earth (PE) resistance test must be executed successfully in advance!

- Plug the power cord of the coffee machine into the power socket on the electric safety tester.

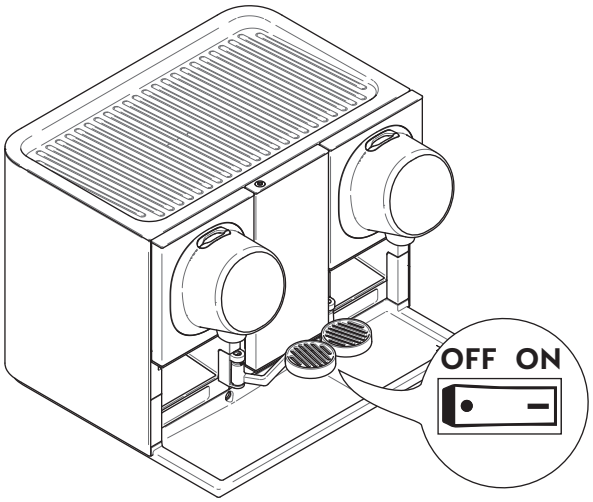


Fig. 92

- Switch on the coffee machine.
- Switch on the electric safety tester and start the protective insulation test.
- Touch the following test points with a test probe and a test voltage of 500 V DC and check if the measured insulation resistance is above 2 MOhm:

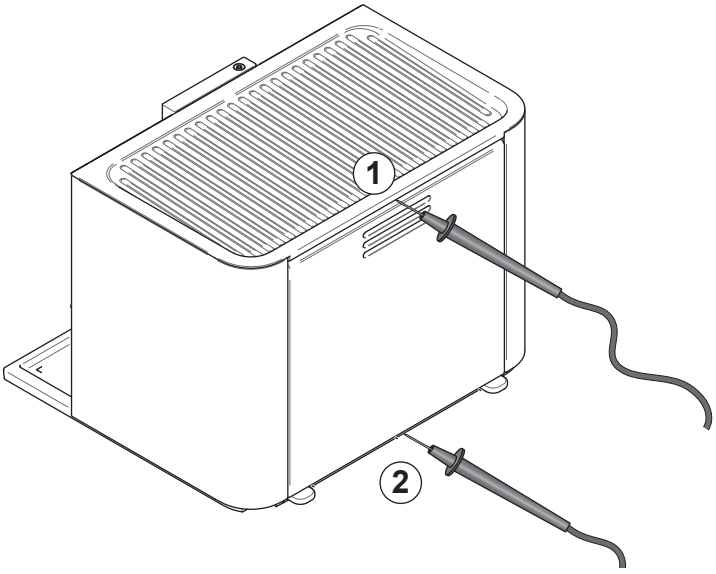


Fig. 93

1. Cup heater plate at the rear of the coffee machine: Touch the aluminium rib at the middle of the underside with the test probe.
2. Touch the bottom plate with the test probe.

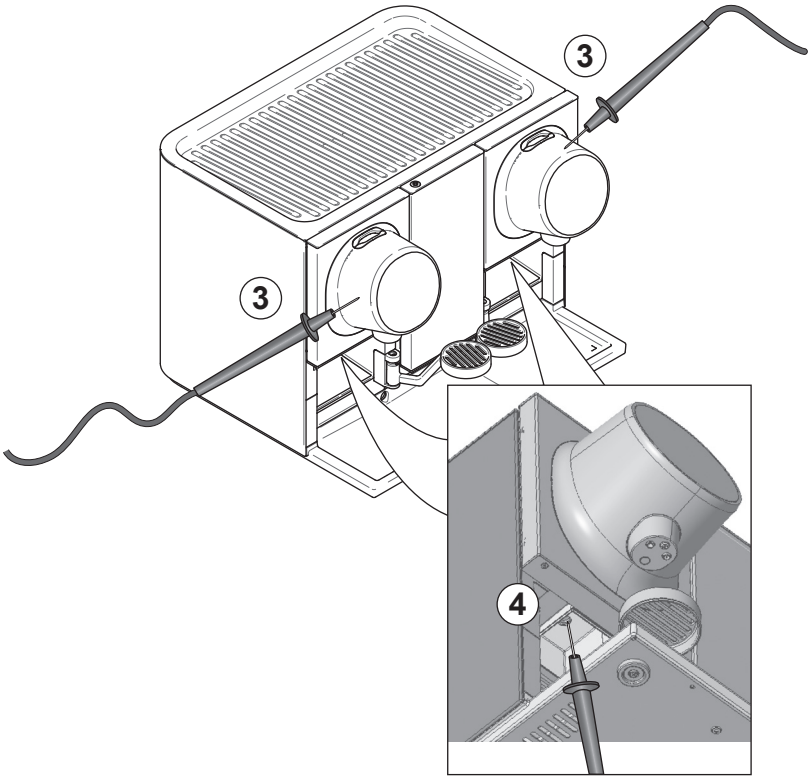


Fig. 94

3. At each coffee module: Touch the front cover with the test probe and insert the test probe into the test hole which is located in the capsule ejection opening.

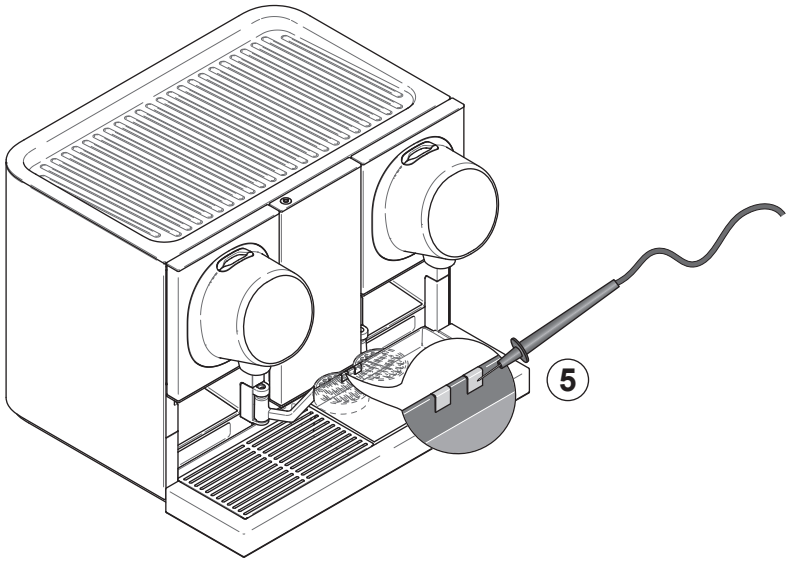


Fig. 95

4. Drip tray: Remove the right drip grid and touch the contacts with the test probe (see detail).

What to do if this test fails?

- Replace a defective assembly (e.g. coffee module).
- Perform troubleshooting and repair.

SPARE PARTS

Exploded drawing – Momento 100 (Prefix A)

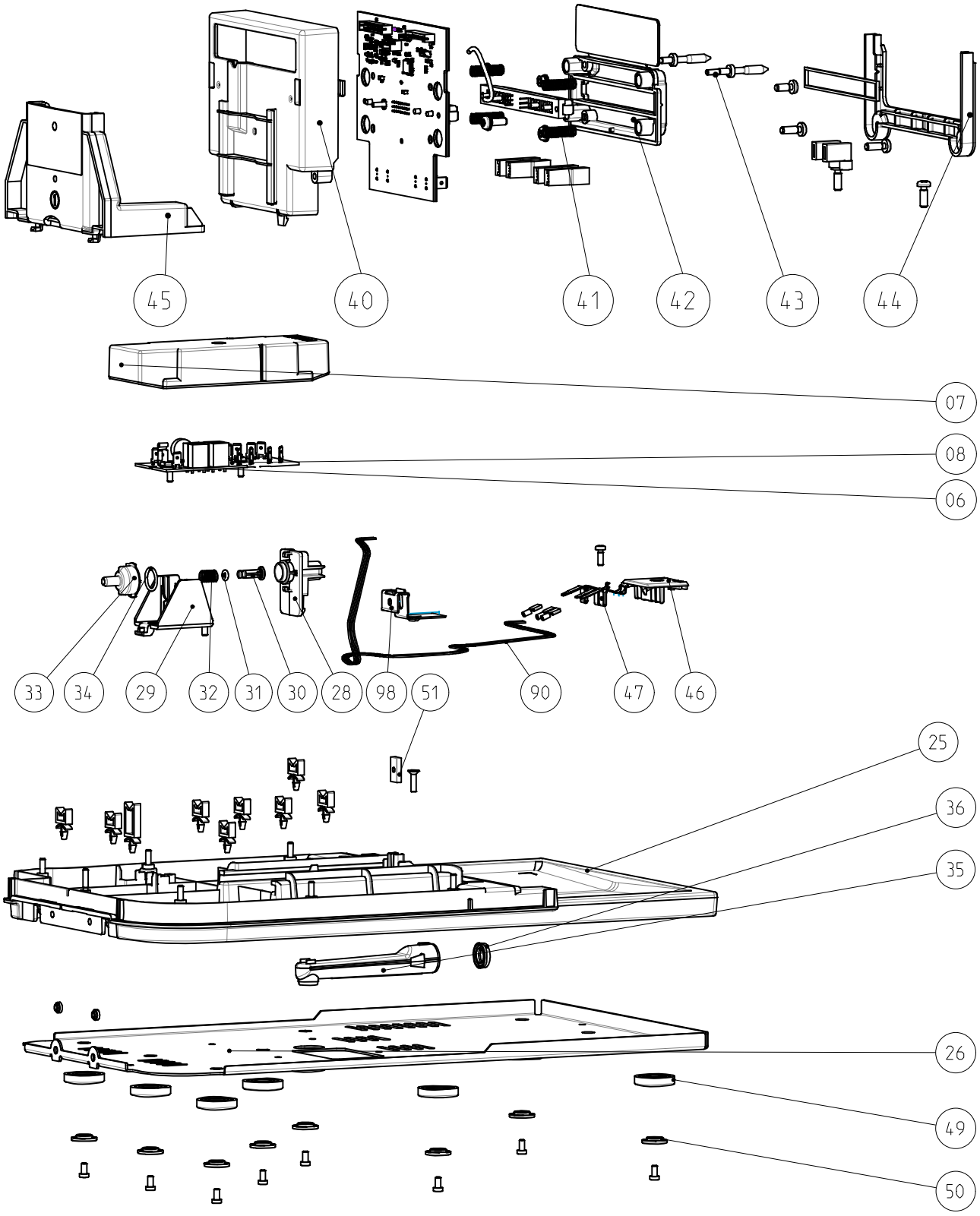


Fig. 96

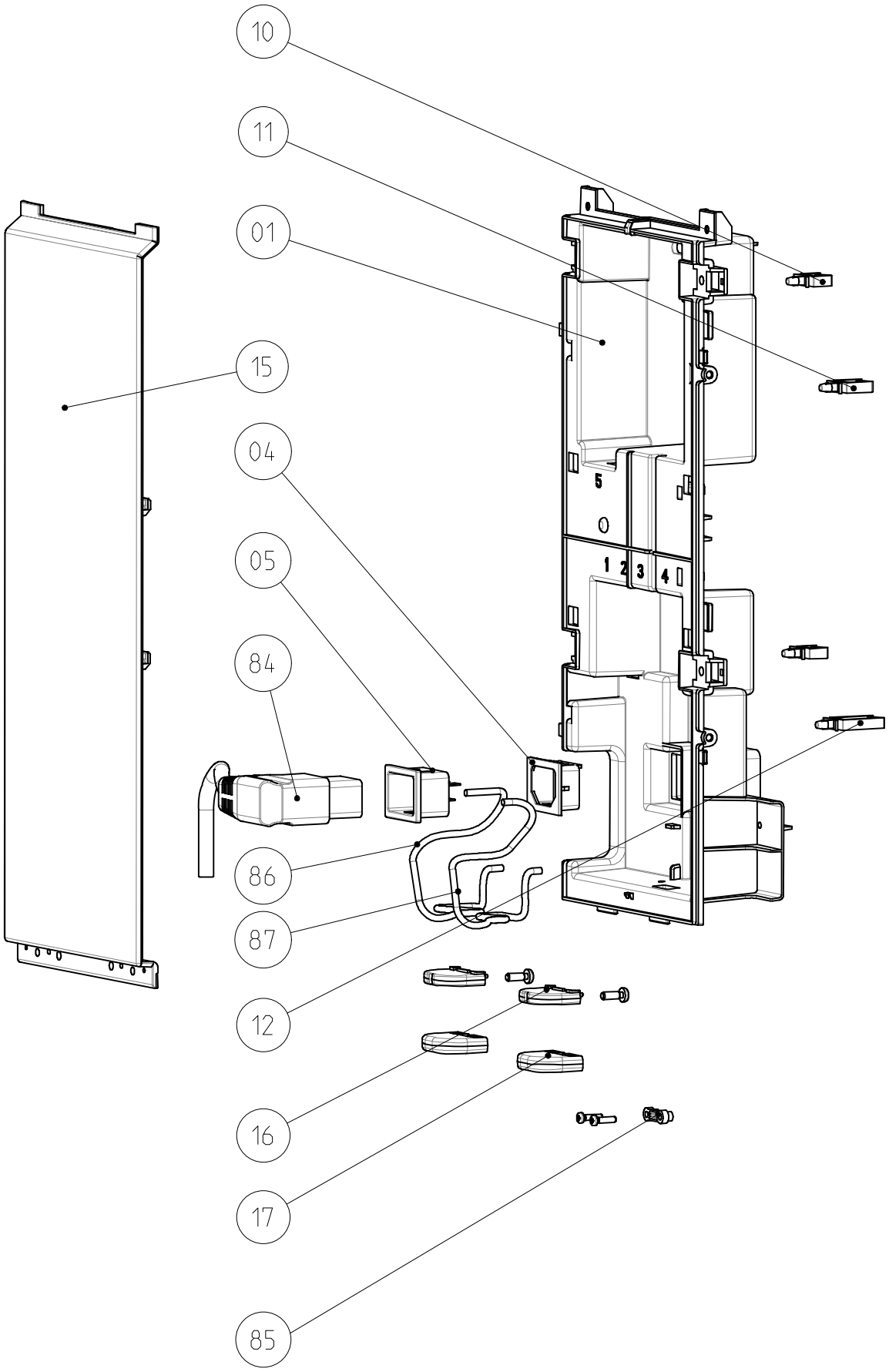


Fig. 97

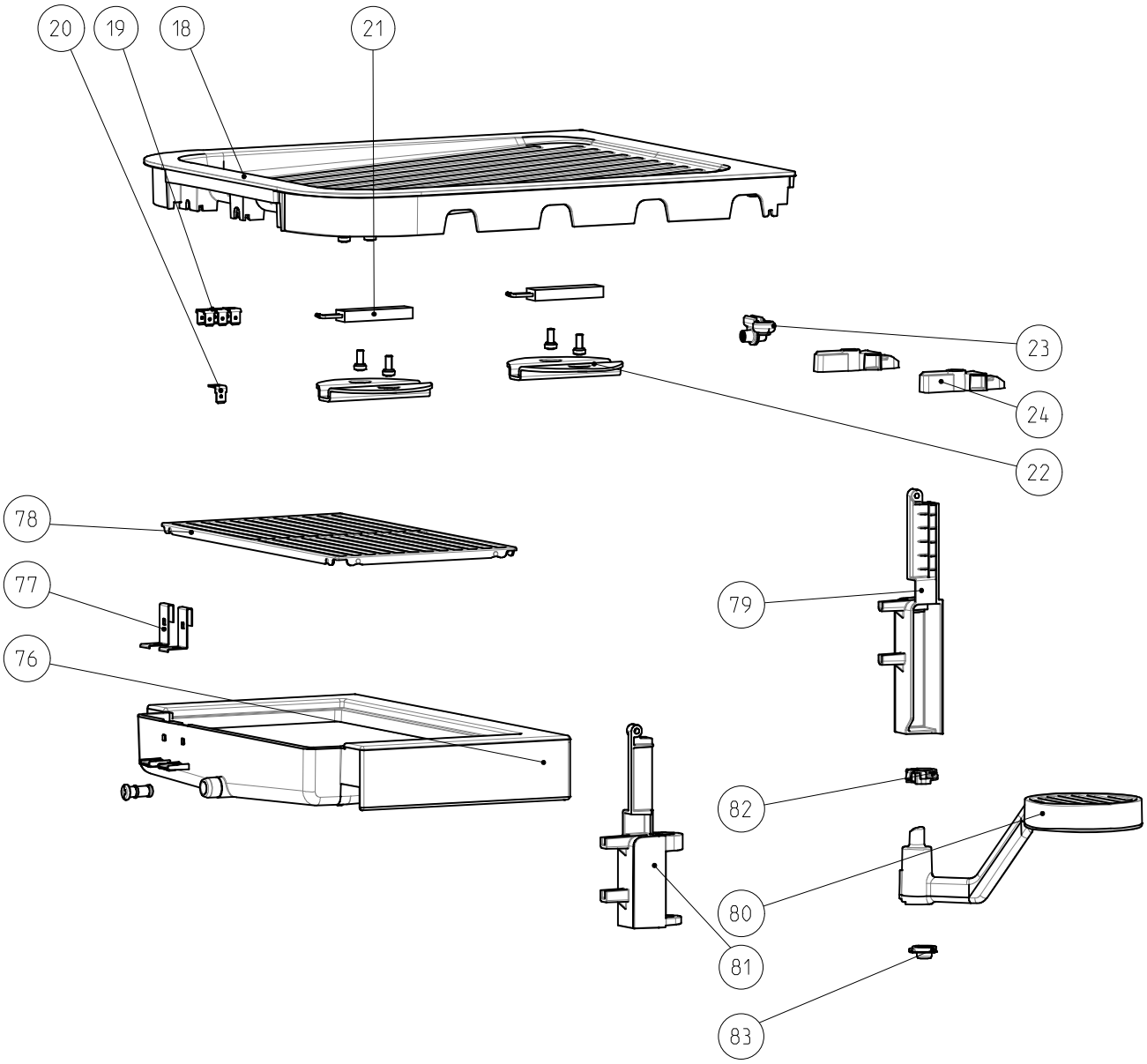


Fig. 98

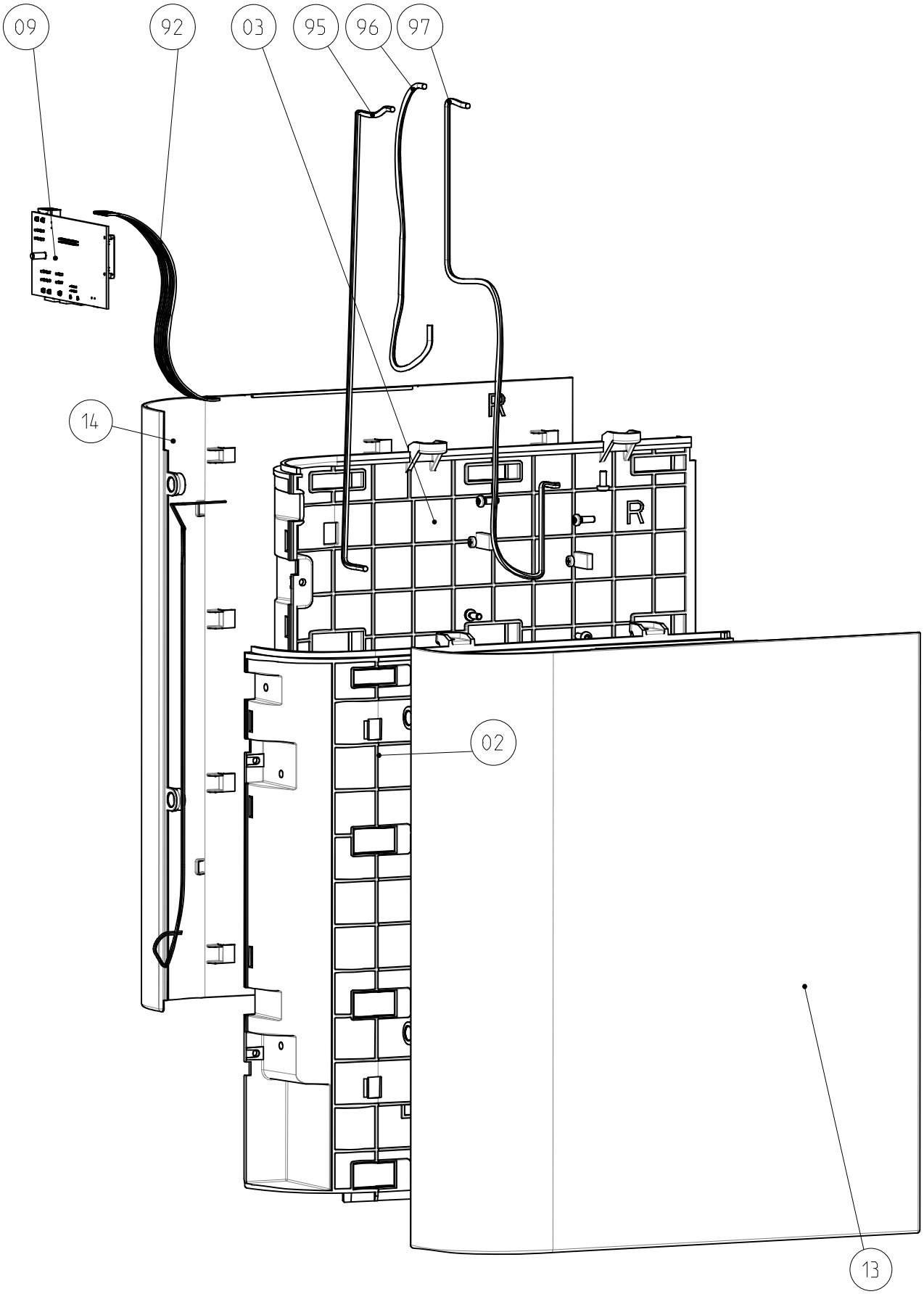


Fig. 99

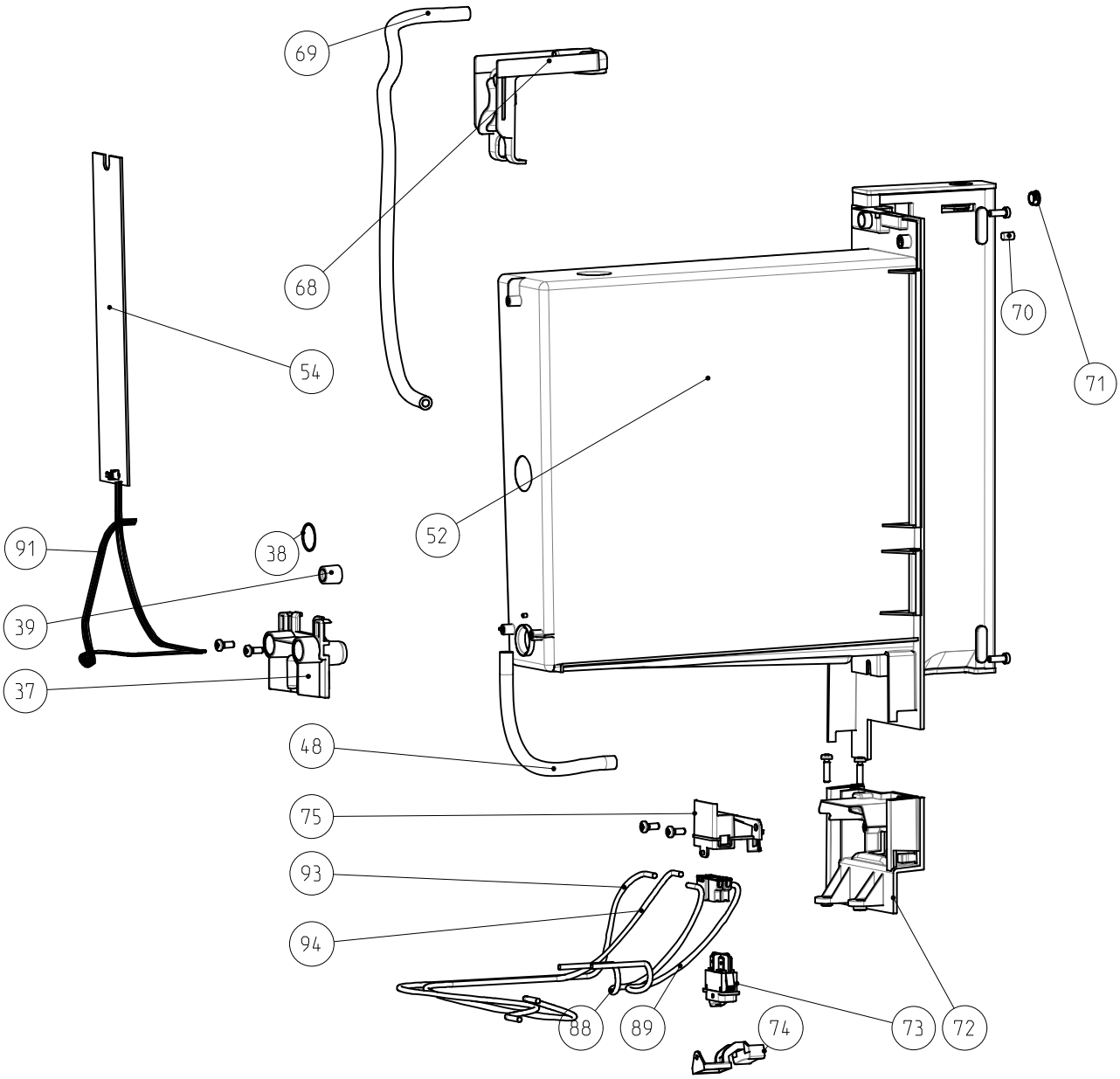


Fig. 100

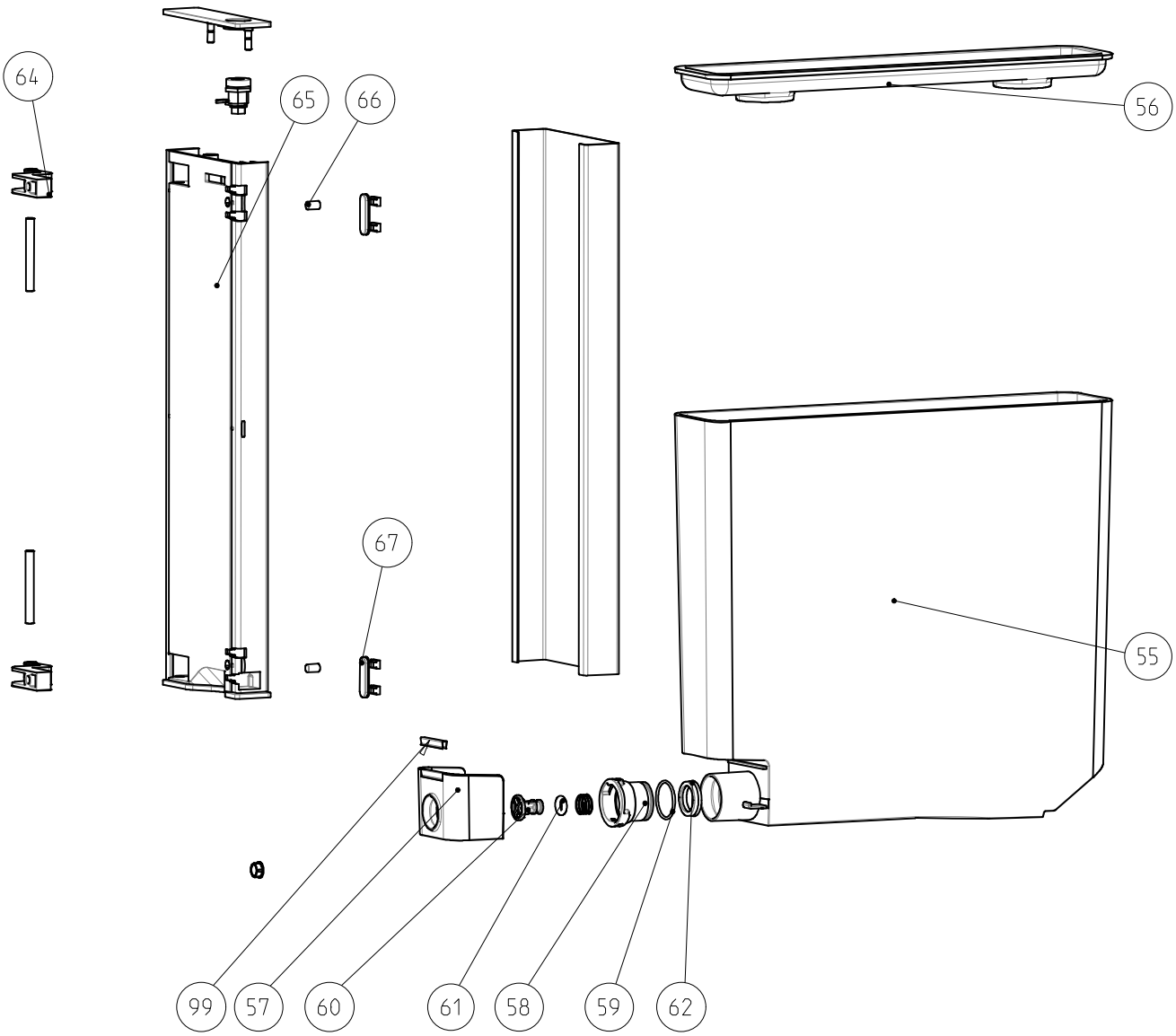


Fig. 101

Spare parts list – Momento 100

Prefix	Drawing Pos.	Part No.	EF Part No.	Component	A = Assembly, P = Part	220V-240V 50/60Hz IEC	120V 60Hz UL	100V-127V 50/60Hz IEC
A	01	65205-1	107753	Structure Rear C	P		1	
		65205-2	108751	Structure Rear C	P	1		1
A	02	65208-1	107758	Structure Side Panel Left	P		1	
		65208-2	108754	Structure Side Panel Left	P	1		1
A	03	65209-1	107759	Structure Side Panel Right	P		1	
		65209-2	108755	Structure Side Panel Right	P	1		1
A	04	65441	110562	Socket adapter	P	1		
A	05	65635		Power Connection	P	1		
		65550		Power Connection	P		1	1
A	06	65565	108631	PCB EMC 100-240V 50/60Hz	A	1	1	1
A	07	65349	107857	Lid EMC PCB	P	1	1	1
A	08	65546	113255	Fuse 8A / 500V	P	1	1	1
A	09	65551	108630	PCB Access Point	A	1	1	1
A	10	65890	113333	Washer M4 PA	P	1	1	1
		65871-1	109242	Wire Saddle WS 2-1	P	2	2	2
A	11	65871-2	109243	Wire Saddle WS 2.2	P	1	1	1
A	12	65871-3	109244	Wire Saddle WS 2.3	P	1	1	1
A	13	65213-1	107764	Side Panel Left	P		1	
		65213-2	108758	Side Panel Left	P	1		1
A	14	65214-1	107765	Side Panel Right	P		1	
		65214-2	108759	Side Panel Right	P	1		1
A	15	65210-1	107761	Panel Rear C	P		1	
		65210-2	108756	Panel Rear C	P	1		1
A	16	65388	108088	Wall bumper hard	P	2	2	2
A	17	65416	108686	Wall bumper soft	P	2	2	2
A	18	65215	108718	Top Plate C	P	1	1	1
A	19	65409	109197	PE Distributor Plate	P	1	1	1
A	20	65881	109201	Tab flag 90°	P	1	1	1
A	21	65575	108875	Cable PTC Cup Heater C IEC / UL	A	1	1	1
A	22	65354		PTC Support	P	2	2	2
A	23	65382	107868	Support Heat Plate	P	1	1	1
A	24	65383	108146	Support Lift Heat Plate	P	2	2	2
A	25	65200-1	107750	Chassis Bottom C	P		1	
		65200-2	108748	Chassis Bottom C	P	1		1

Prefix	Drawing Pos.	Part No.	EF Part No.	Component	A = Assembly, P = Part	220V-240V 50/60Hz IEC	120V 60Hz UL	100V-127V 50/60Hz IEC
A	26	65203		Sheet Metal Bottom C	P	1	1	1
A	28	65291	108297	Coupling Chassis	P	1	1	1
A	29	65384	107873	Support Coupling bottom	P	1	1	1
A	30	65346	108159	Plunger	P	1	1	1
A	31	65826	108899	O-Ring	P	1	1	1
A	32	65827	109234	Spring	P	1	1	1
A	33	65347	108162	Spring Holder	P	1	1	1
A	34	65828	108903	O-Ring	P	1	1	1
A	35	65294	108127	Connector Waste water	P	1	1	1
A	36	65365	108669	Seal (waste water)	P	1	1	1
A	37	65292	108300	Support tank module	P	1	1	1
A	38	65846	108908	O-Ring	P	1	1	1
A	39	65414	108728	Filter tank support	P	1	1	1
A	40	65295		Housing PCB Chassis Smart	P	1	1	1
A	41	65296		Spring Connector	P	4	4	4
A	42	65297-1		Support Connector	P	1	1	1
A	43	65561		Centering Pin	P	2	2	2
A	44	65298		Cover PCB Chassis	P	1	1	1
A	45	65386	107876	Support PCB bottom	P	1	1	1
A	46	65299	107845	Plate Contact Drip Tray	P	1	1	1
A	47	65300		Contact Drip Tray Chassis	P	3	3	3
A	48	90026-1	5238	Silicone hose for water (per m)	P			
A	49	65321	108695	Foot	P	8	8	8
A	50	65809	108625	Washer Foot	P	8	8	8
A	51	65847	109225	Square nut	P	1	1	1
A	52	65217-1	107767	Slot Water Tank C	P		1	
		65217-2	108760	Slot Water Tank C	P	1		1
A	54	65558	108628	PCB Water Level Detection	A	1	1	1
A	55	65221		Water Tank C CC	P	1	1	1
A	56	65223		Cover Top WT C CC	P	1	1	1
A	57	65403		Connector Valve C CC	P	1	1	1
A	58	65426		Holder Valve WT	P	1	1	1
A	59	65845		O-Ring	P	1	1	1
A	60	65413		Valve WT	P	1	1	1
A	61	90024-1	27994	O-Ring 6x3 Silicone	P	2	2	2
A	62	90028-1	77079	Seal (watertank connector)	P	1	1	1

Prefix	Drawing Pos.	Part No.	EF Part No.	Component	A = Assembly, P = Part	220V-240V 50/60Hz IEC	120V 60Hz UL	100V-127V 50/60Hz IEC
A	63	65811		Water Filter	P	1	1	1
A	64	65226	108363	Door Hinge Small	P	2	2	2
A	65	65227	108175	Door WT C Plastic	P	1	1	1
A	66	65838	109207	Magnet door	P	2	2	2
A	67	65374	108690	Door Damper	P	2	2	2
A	68	65352	107859	Water Connector	P	1	1	1
A	69	90026-1	5238	Silicone hose for water (per m)	P			
A	70	65838	109207	Magnet door	P	2	2	2
A	71	65394	107881	Cover for screw	P	2	2	2
A	72	65421	107885	Support Switch C	P	1	1	1
A	73	65830	109370	Switch On/Off 16A	P	1	1	1
A	74	65325	109064	Actuator On/Off	P	1	1	1
A	75	65326	109062	Support On/Off	P	1	1	1
A	76	65243		Drip Tray C	P	1	1	1
A	77	65245		Contact Drip Tray	P	2	2	2
A	78	65247	108323	Drip Grid C	P	1	1	1
A	79	65263		Support Cup Holder Right	P	1	1	1
A	80	65264		Cup Holder Right	P	1	1	1
A	81	65266	108125	Blind Cup Holder Left	P	1	1	1
A	82	65419		Cup Holder Ring Top	P	1	1	1
A	83	65420		Cup Support Ring Bottom	P	1	1	1
A	84	65639		Cable Connection Complete CHE	A	1		
		65640	112507	Cable Connection Complete CEE7	A	1		
		65641	112628	Cable Connection Complete UL 120V	A		1	
		65643		Cable Connection Complete AR	A	1		
		65644		Cable Connection Complete AU	A	1		
		65645		Cable Connection Complete BR 220V	A	1		
		65646		Cable Connection Complete BR 127V	A			1
		65647		Cable Connection Complete CN	A	1		
		65648		Cable Connection Complete GB	A	1		
		65649		Cable Connection Complete KR	A	1		
		65650		Cable Connection Complete JP 100V	A			1
A	85	90029-1	1053	Strain relief clamp	P	1		
		90131-2	50368	Strain relief (screw)	P		1	1
		90009-1	16052	Screw PT lh-Torx K30 x 12	P	2	2	2
A	86	65593	109299	Cable L Main Power Connector - On/Off	A	1	1	1

Prefix	Drawing Pos.	Part No.	EF Part No.	Component	A = Assembly, P = Part	220V-240V 50/60Hz IEC	120V 60Hz UL	100V-127V 50/60Hz IEC
A	87	65594	109300	Cable N Main Power Connector - On/Off	A	1	1	1
A	88	65596	109302	Cable L On/Off - EMC Out	A	1	1	1
A	89	65597	109303	Cable N On/Off - EMC Out	A	1	1	1
A	90	65603	109304	Cable Signal Drip Tray C	A	1	1	1
A	91	65604	109305	Cable Signal Water Level Detection C/CC	A	1	1	1
A	92	65611	109312	Cable Signal Access Point	A	1	1	1
A	93	65589	109296	Cable L Switch Out - C	A	1	1	1
A	94	65591	109298	Cable N Switch Out - C	A	1	1	1
A	95	65587	109294	Cable PE Cup Heater - Metal Floor Plate	A	1	1	1
A	96	65595	109301	Cable PE Main Power Connector - Cup Heater C/CC	A	1	1	1
A	97	65570		Cable PE Cup Heater - Chassis Main	A	1	1	1
A	98	65454	113634	Reinforcement Angle	P	1	1	1
A	99	65450		Sheet detection WT	P	1	1	1

Exploded drawing – Momento 200 (Prefix B)

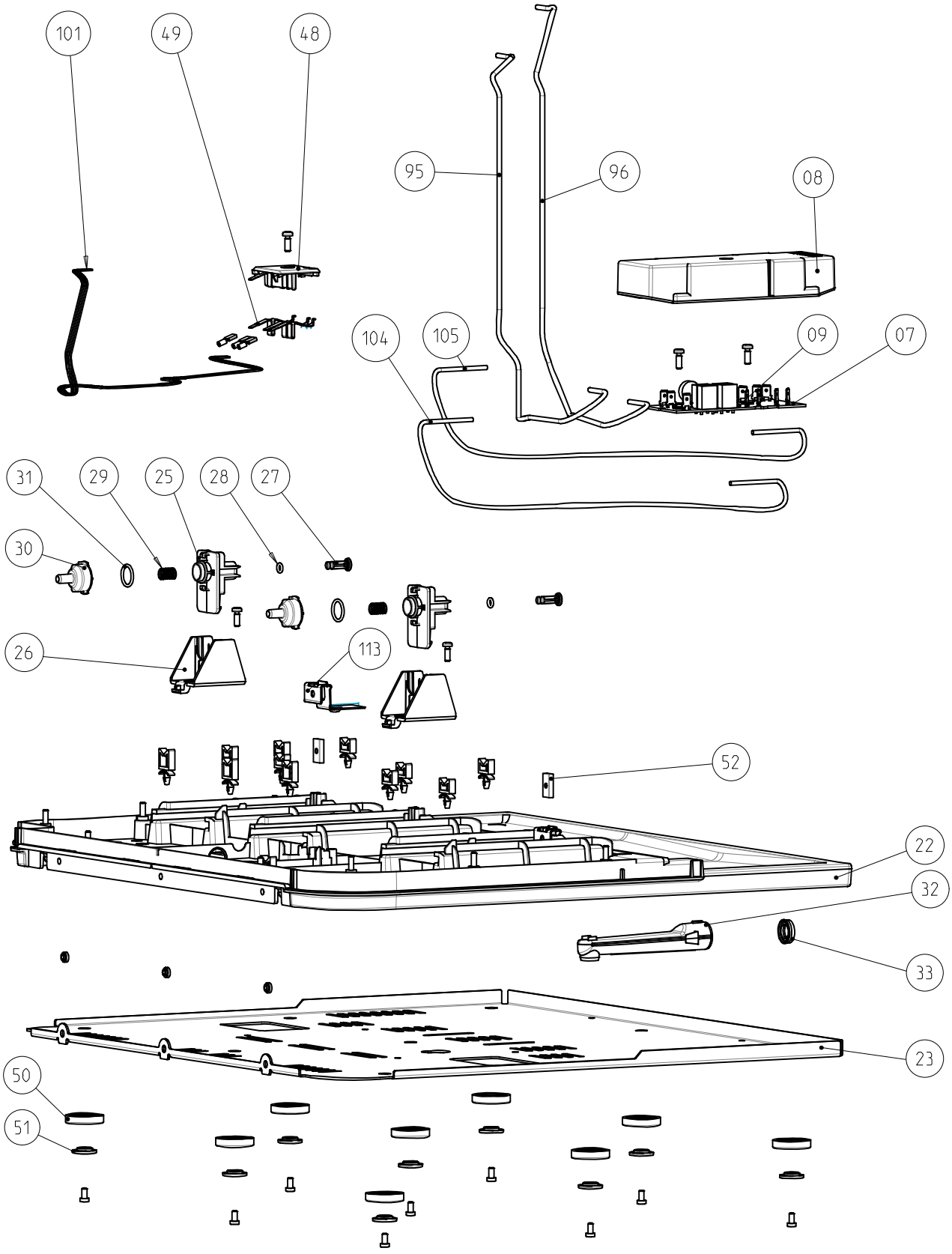


Fig. 102

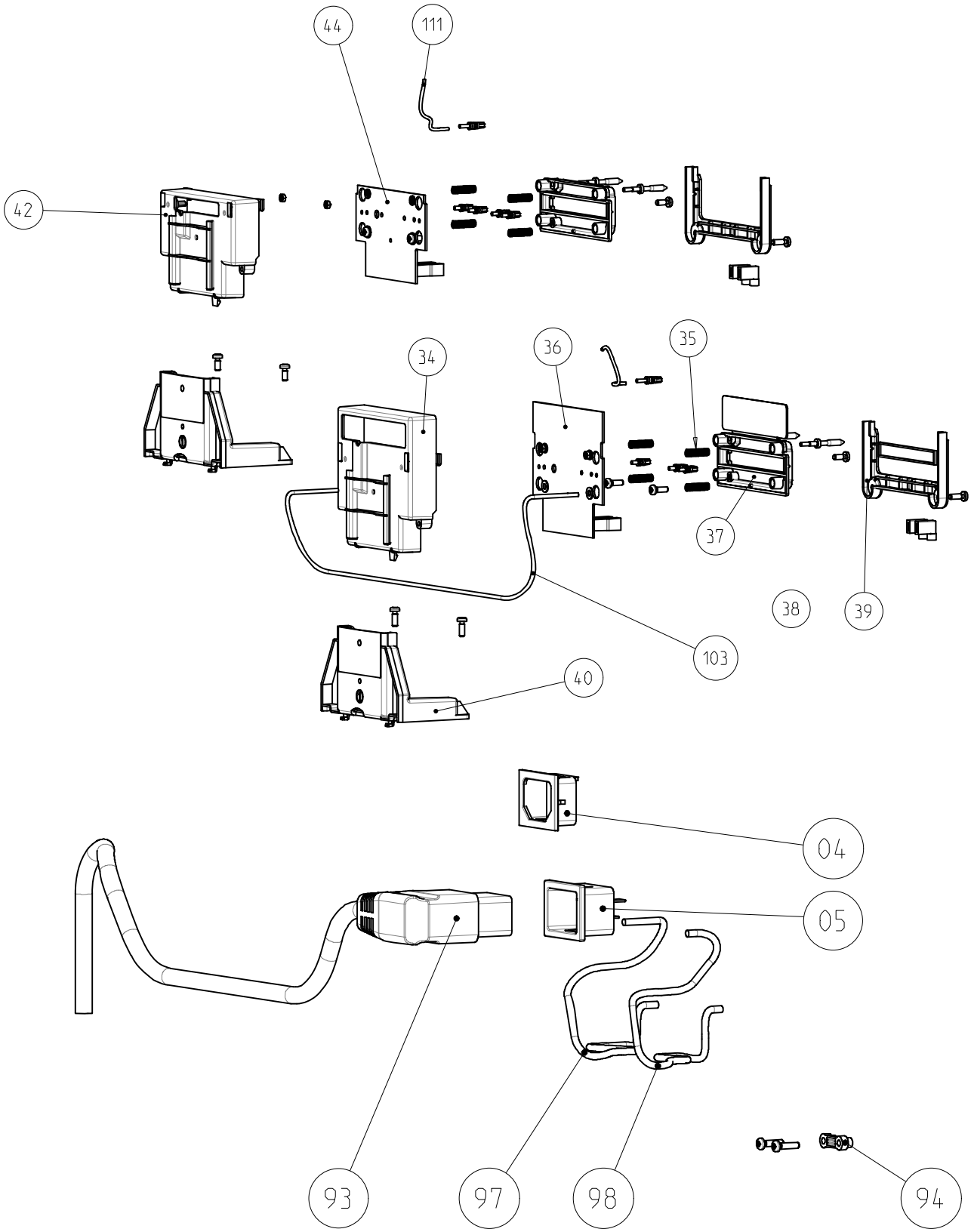


Fig. 103

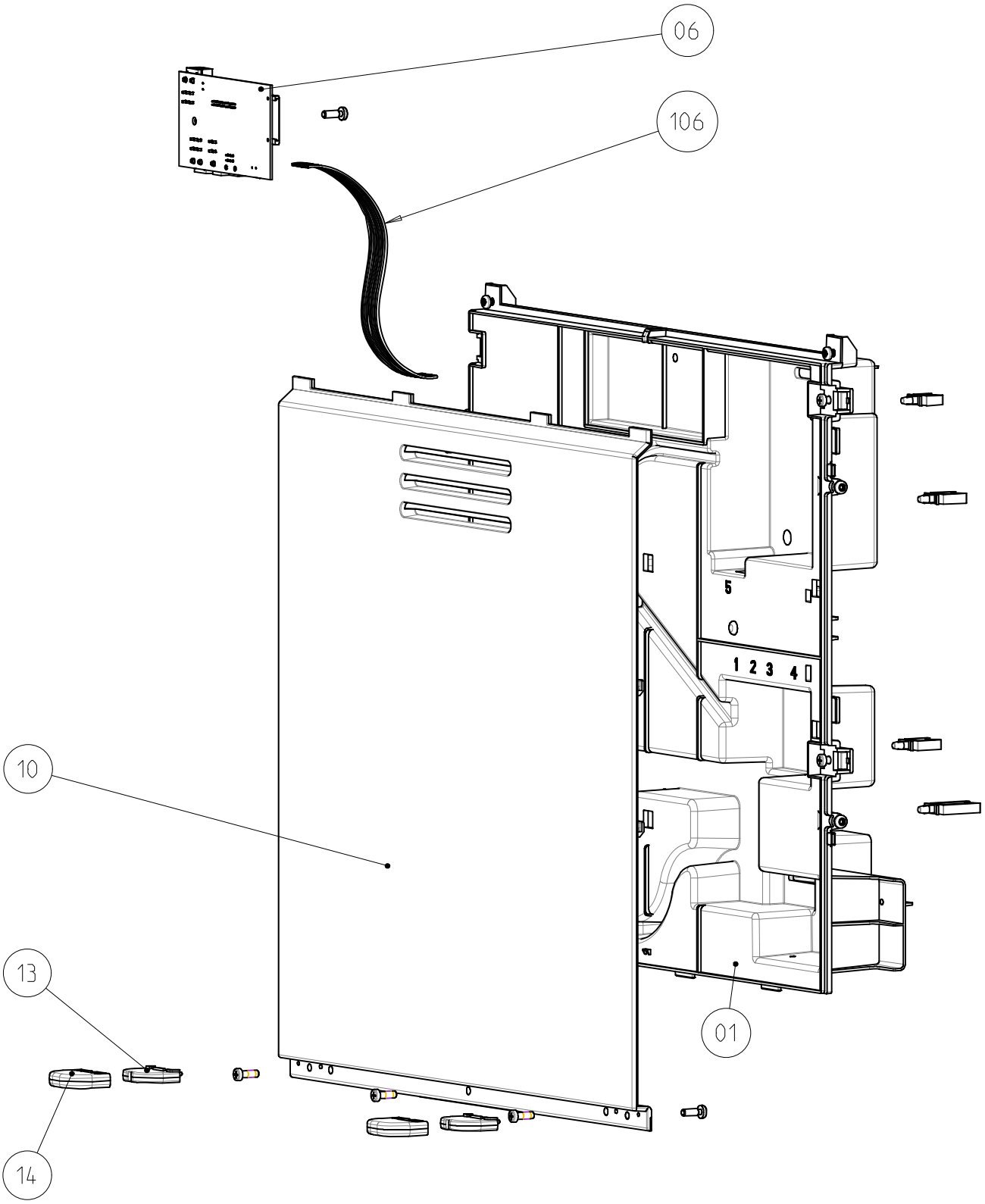


Fig. 104

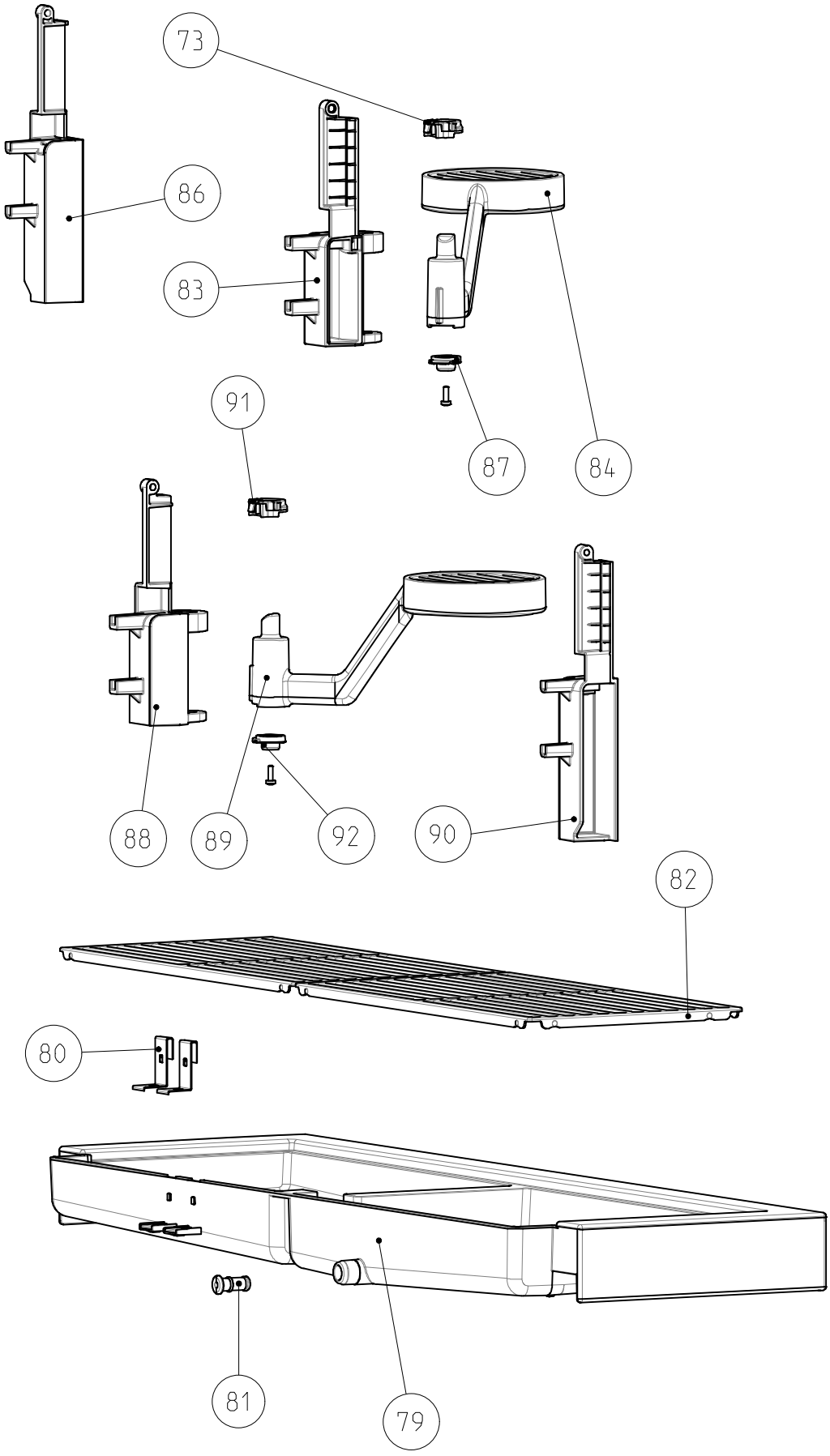


Fig. 105

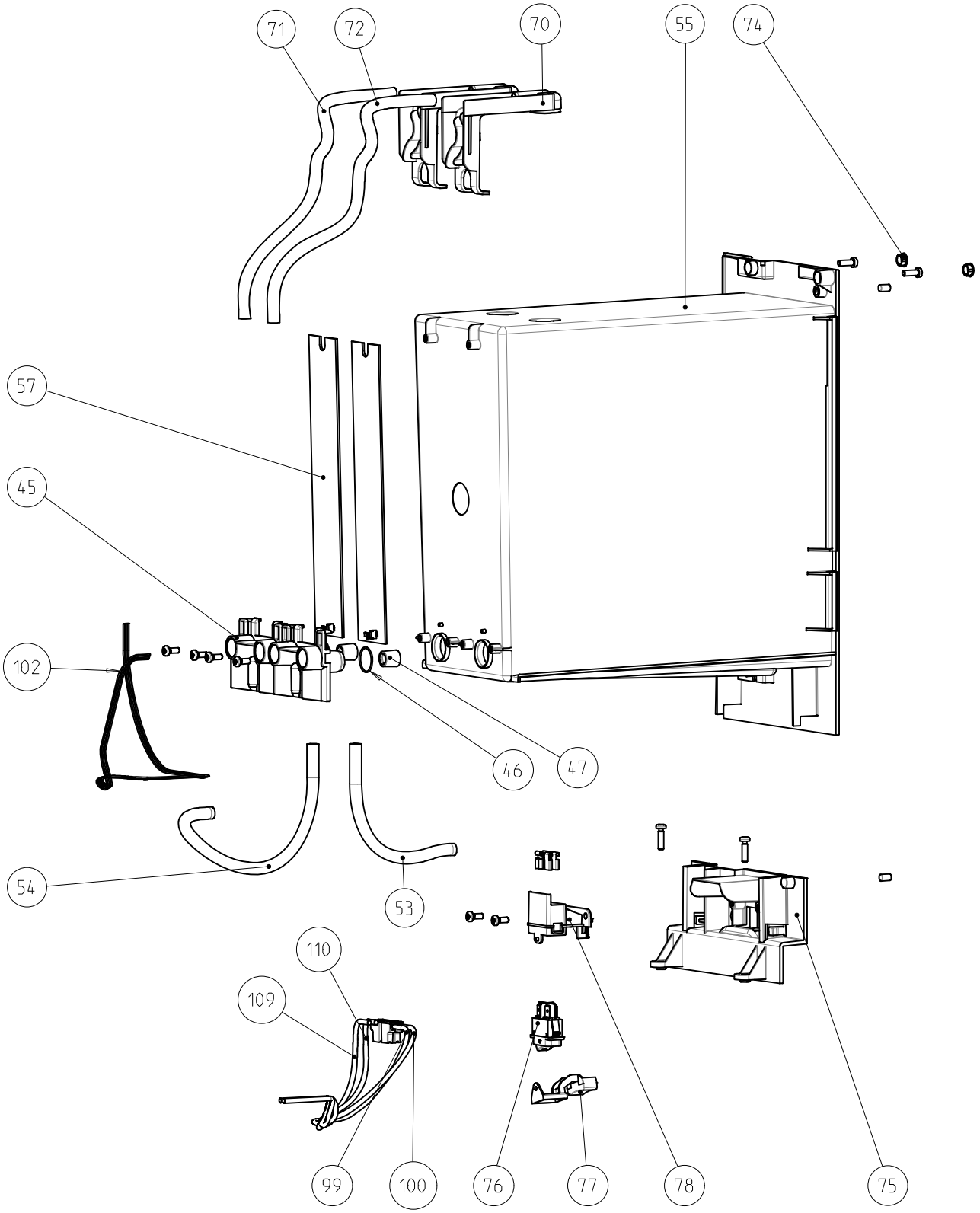


Fig. 106

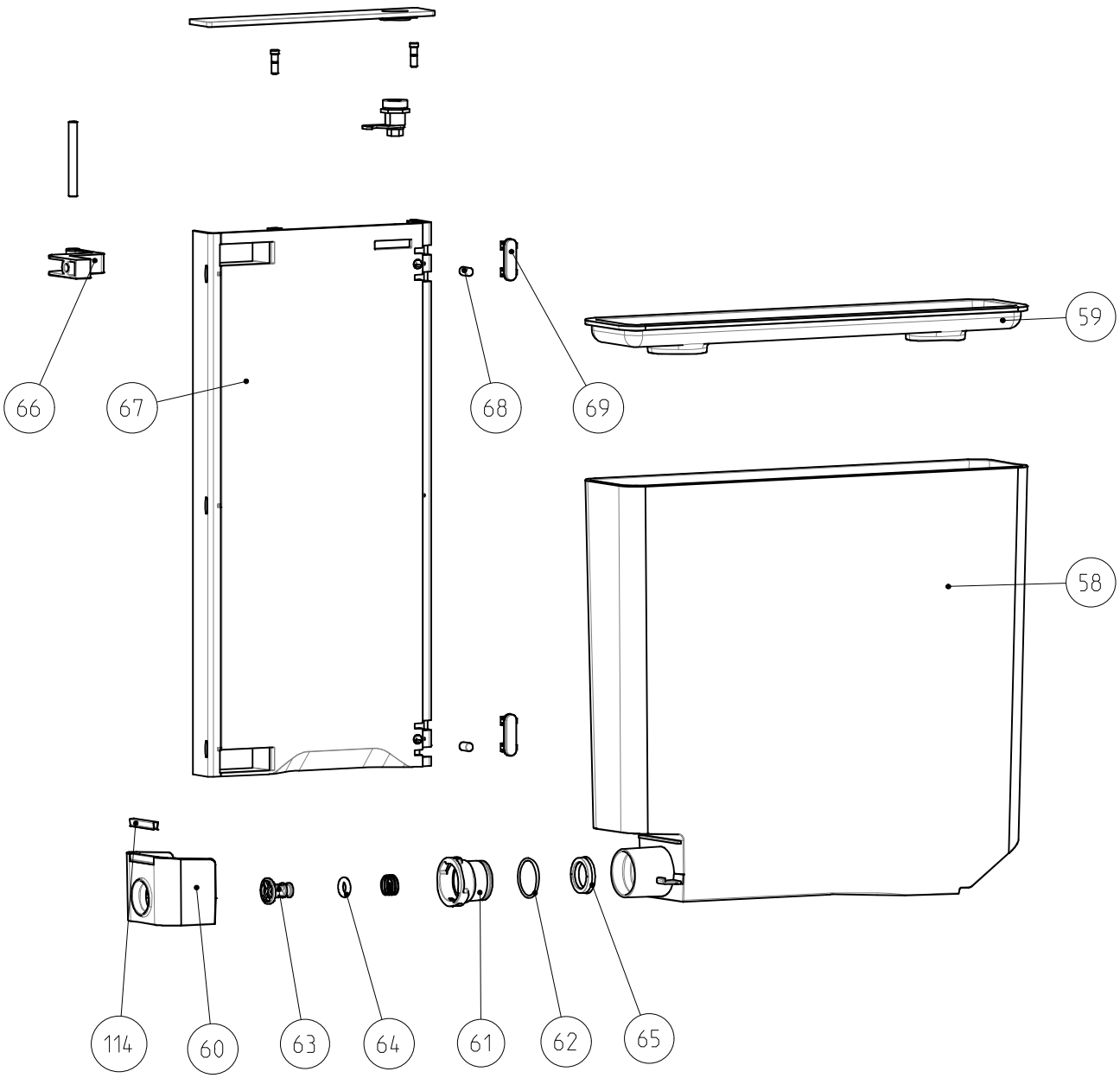


Fig. 107

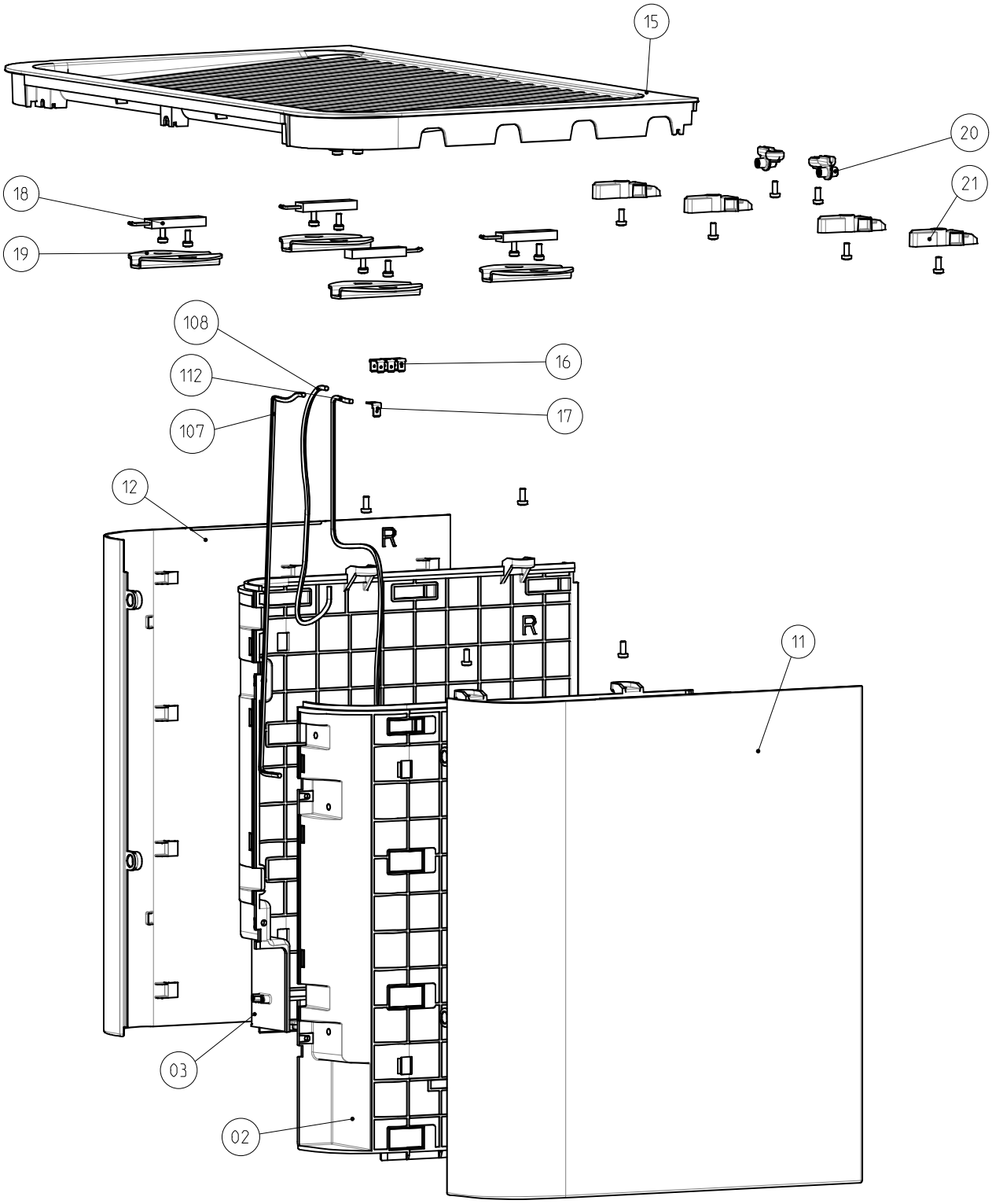


Fig. 108

Spare parts list – Momento 200

Prefix	Drawing Pos.	Part No.	EF Part No.	Component	A = Assembly, P = Part	220V-240V 50/60Hz IEC	200V-208V 60Hz IEC	200V-208V 60Hz UL
B	01	65206-1	107754	Structure Rear CC	P			1
		65206-2	108752	Structure Rear CC	P	1	1	
B	02	65208-1	107758	Structure Side Panel Left	P			1
		65208-2	108754	Structure Side Panel Left	P	1	1	
B	03	65209-1	107759	Structure Side Panel Right	P			1
		65209-2	108755	Structure Side Panel Right	P	1	1	
B	04	65441	110562	Socket adapter	P	1		
B	05	65635		Power Connection	P	1		
		65550		Power Connection	P		1	1
B	06	65551	108630	PCB Access Point	A	1	1	1
B	07	65565	108631	PCB EMC 100-240V 50/60Hz	A	1	1	1
B	08	65349	107857	Lid EMC PCB	P	1	1	1
B	09	65546	113255	Fuse 8A / 500V	P	1	1	1
B	10	65211-1	107763	Panel Rear CC CM	P			1
		65211-2	108757	Panel Rear CC CM	P	1	1	
B	11	65213-1	107764	Side Panel Left	P			1
		65213-2	108758	Side Panel Left	P	1	1	
B	12	65214-1	107765	Side Panel Right	P			1
		65214-2	108759	Side Panel Right	P	1	1	
B	13	65388	108088	Wall bumper hard	P	2	2	2
B	14	65416	108686	Wall bumper soft	P	2	2	2
B	15	65216	108720	Top Plate CC CM	P	1	1	1
B	16	65409	109197	PE Distributor Plate	P	1	1	1
B	17	65881	109201	Tab flag 90°	P	1	1	1
B	18	65577	108876	Cable PTC Cup Heater CC IEC / UL	A	1	1	1
B	19	65354		PTC Support	P	4	4	4
B	20	65382	107868	Support Heat Plate	P	2	2	2
B	21	65383	108146	Support Lift Heat Plate	P	4	4	4
B	22	65201-1	107751	Chassis Bottom CC CM	P			1
		65201-2	108750	Chassis Bottom CC CM	P	1	1	
B	23	65204		Sheet Metal Bottom CC CM	P	1	1	1
B	25	65291	108297	Coupling Chassis	P	2	2	2
B	26	65384	107873	Support Coupling bottom	P	2	2	2
B	27	65346	108159	Plunger	P	2	2	2

Prefix	Drawing Pos.	Part No.	EF Part No.	Component	A = Assembly, P = Part	220V-240V 50/60Hz IEC	200V-208V 60Hz IEC	200V-208V 60Hz UL
B	28	65826	108899	O-Ring	P	2	2	2
B	29	65827	109234	Spring	P	2	2	2
B	30	65347	108162	Spring Holder	P	2	2	2
B	31	65828	108903	O-Ring	P	2	2	2
B	32	65294	108127	Connector Waste water	P	1	1	1
B	33	65365	108669	Seal (waste water)	P	1	1	1
B	34	65295		Housing PCB Chassis Smart	P	1	1	1
B	35	65296		Spring Connector	P	4	4	4
B	36	65555		PCB Smart Chassis	A	1	1	1
B	37	65297-1		Support Connector	P	1	1	1
B	38	65561		Centering Pin	P	2	2	2
B	39	65298		Cover PCB Chassis	P	1	1	1
B	40	65386	107876	Support PCB bottom	P	1	1	1
B	42	65411		Housing PCB Chassis Extention	P	1	1	1
B	44	65564		PCB Smart Chassis Extention 100-240V 50/60Hz	A	1	1	1
B	45	65292	108300	Support tank module	P	2	2	2
B	46	65846	108908	O-Ring	P	2	2	2
B	47	65414	108728	Filter tank support	P	2	2	2
B	48	65299	107845	Plate Contact Drip Tray	P	1	1	1
B	49	65300		Contact Drip Tray Chassis	P	3	3	3
B	50	65321	108695	Foot	P	9	9	9
B	51	65809	108625	Washer Foot	P	9	9	9
B	52	65847	109225	Square nut	P	2	2	2
B	53	90026-1	5238	Silicone hose for water (per m)	P			
B	54	90026-1	5238	Silicone hose for water (per m)	P			
B	55	65218-1	107768	Slot Water Tank CC	P			1
		65218-2	108761	Slot Water Tank CC	P	1	1	
B	57	65558	108628	PCB Water Level Detection	A	2	2	2
B	58	65221		Water Tank C CC	P	2	2	2
B	59	65223		Cover Top WT C CC	P	2	2	2
B	60	65403		Connector Valve C CC	P	2	2	2
B	61	65426		Holder Valve WT	P	2	2	2
B	62	65845		O-Ring	P	2	2	2
B	63	65413		Valve WT	P	2	2	2
B	64	90024-1	27994	O-Ring 6x3 Silicone	P	4	4	4

Prefix	Drawing Pos.	Part No.	EF Part No.	Component	A = Assembly, P = Part	220V-240V 50/60Hz IEC	200V-208V 60Hz IEC	200V-208V 60Hz UL
B	65	90028-1	77079	Seal (watertank connector)	P	2	2	2
		65811		Water Filter	P	2	2	2
B	66	65225	108365	Door Hinge	P	2	2	2
B	67	65228	108177	Door WT CC Plastic	P	1	1	1
B	68	65838	109207	Magnet door	P	2	2	2
B	69	65374	108690	Door Damper	P	2	2	2
B	70	65352	107859	Water Connector	P	2	2	2
B	71	90026-1	5238	Silicone hose for water (per m)	P			
B	72	90026-1	5238	Silicone hose for water (per m)	P			
B	73	65419		Cup Holder Ring Top	P	1	1	1
B	74	65394	107881	Cover for screw	P	3	3	3
B	75	65422	107886	Support Switch CC	P	1	1	1
B	76	65830	109370	Switch On/Off 16A	P	1	1	1
B	77	65325	109064	Actuator On/Off	P	1	1	1
B	78	65326	109062	Support On/Off	P	1	1	1
B	79	65244		Drip Tray CC CM	P	1	1	1
B	80	65245		Contact Drip Tray	P	2	2	2
B	81	65246		Plug Drip Tray	P	1	1	1
B	82	65248	108325	Drip Grid CC CM	P	2	2	2
B	83	65424		Support Cup Holder Left	P	1	1	1
B	84	65265		Cup Holder Left	P	1	1	1
B	86	65425	108139	Blind Cup Holder Right	P	1	1	1
B	87	65420		Cup Support Ring Bottom	P	1	1	1
B	88	65263		Support Cup Holder Right	P	1	1	1
B	89	65264		Cup Holder Right	P	1	1	1
B	90	65266	108125	Blind Cup Holder Left	P	1	1	1
B	91	65419		Cup Holder Ring Top	P	1	1	1
B	92	65420		Cup Support Ring Bottom	P	1	1	1

Prefix	Drawing Pos.	Part No.	EF Part No.	Component	A = Assembly, P = Part	220V-240V 50/60Hz IEC	200V-208V 60Hz IEC	200V-208V 60Hz UL
B	93	65639		Cable Connection Complete CHE	A	1		
		65640	112507	Cable Connection Complete CEE7	A	1		
		65642	112654	Cable Connection Complete UL 208V	A			1
		65643		Cable Connection Complete AR	A	1		
		65644		Cable Connection Complete AU	A	1		
		65645		Cable Connection Complete BR 220V	A	1		
		65647		Cable Connection Complete CN	A	1		
		65648		Cable Connection Complete GB	A	1		
		65649		Cable Connection Complete KR	A	1		
		65651		Cable Connection Complete JP 200V	A		1	
B	94	90029-1	1053	Strain relief clamp	P	1		
		90131-2	50368	Strain relief (screw)	P		1	1
B	95	65585	109292	Cable N Chassis Main - EMC CC	A	1	1	1
B	96	65586	109293	Cable L Chassis Main - EMC CC	A	1	1	1
B	97	65593	109299	Cable L Main Power Connector - On/Off	A	1	1	1
B	98	65594	109300	Cable N Main Power Connector - On/Off	A	1	1	1
B	99	65596	109302	Cable L On/Off - EMC Out	A	1	1	1
B	100	65597	109303	Cable N On/Off - EMC Out	A	1	1	1
B	101	65610	109310	Cable Signal Drip Tray CC CM	A	1	1	1
B	102	65604	109305	Cable Signal Water Level Detection C/CC	A	2	2	2
B	103	65605	109306	Cable Signal Chassis Main - Extention CC	A	1	1	1
B	104	65607	109308	Cable N EMC Extension	A	1	1	1
B	105	65608	109309	Cable L EMC Externsion	A	1	1	1
B	106	65611	109312	Cable Signal Access Point	A	1	1	1
B	107	65587	109294	Cable PE Cup Heater - Metal Floor Plate	A	1	1	1
B	108	65595	109301	Cable PE Main Power Connector - Cup Heater C/CC	A	1	1	1
B	109	65588	109295	Cable L Switch Out - CC CM	A	1	1	1
B	110	65590	109297	Cable N Switch Out - CC CM	A	1	1	1
B	111	65606		Cable PE Cup Heater - Extension	A	1	1	1
B	112	65570		Cable PE Cup Heater - Chassis Main	A	1	1	1
B	113	65454	113634	Reinforcement Angle	P	2	2	2
B	114	65450		Sheet detection WT	P	1	1	1

Exploded drawing – Coffee Module (Prefix C)

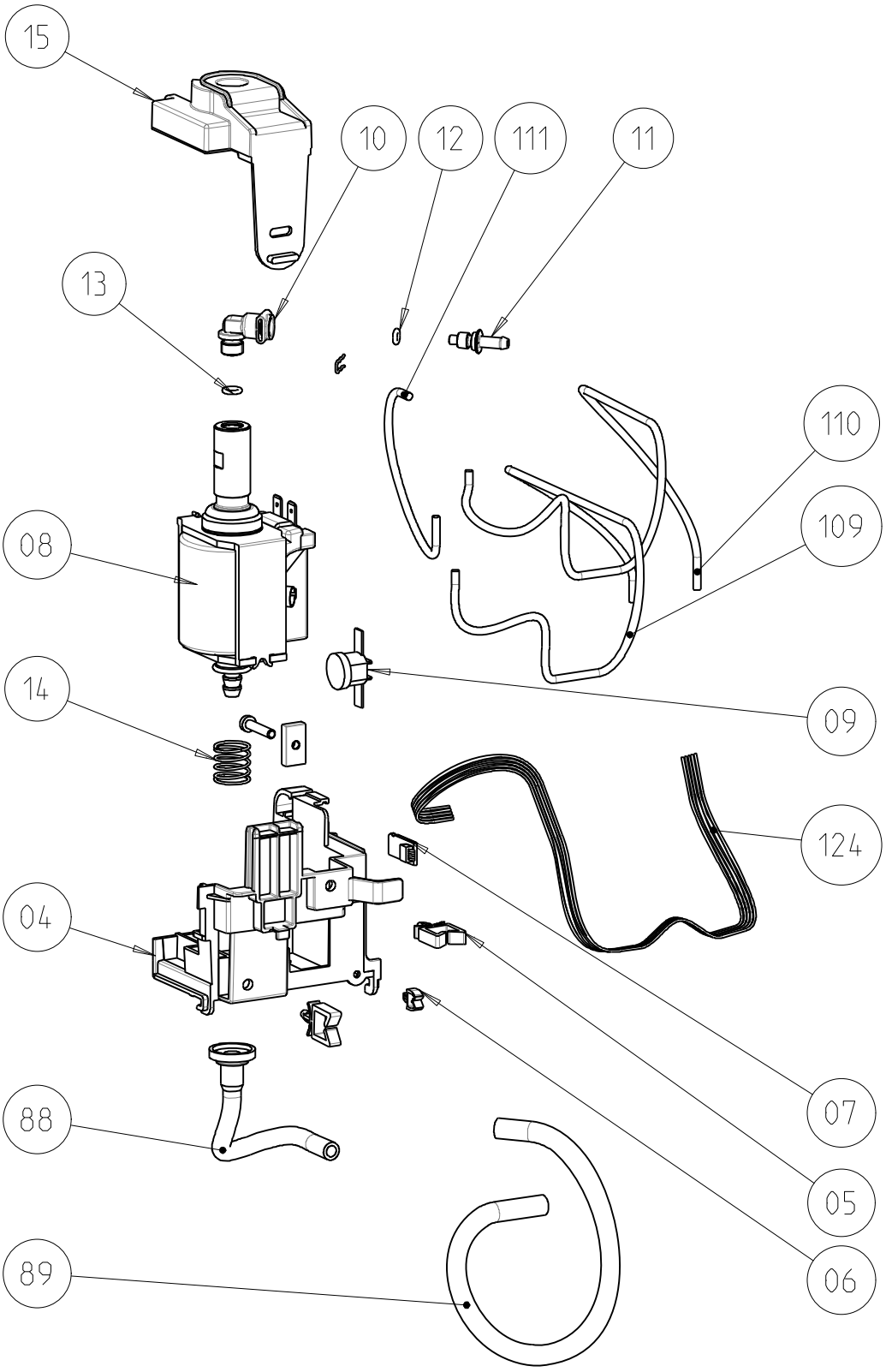


Fig. 109

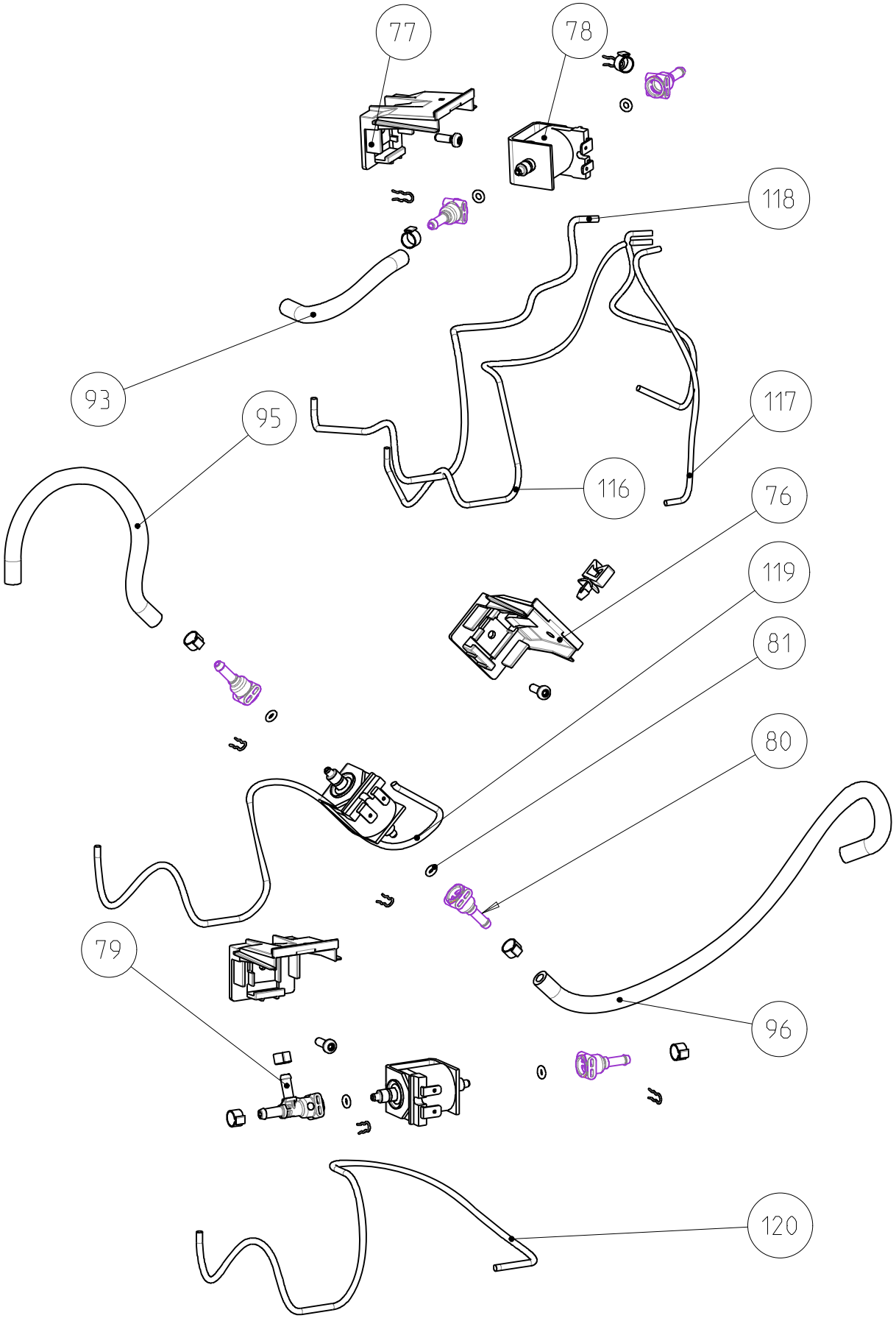


Fig. 110

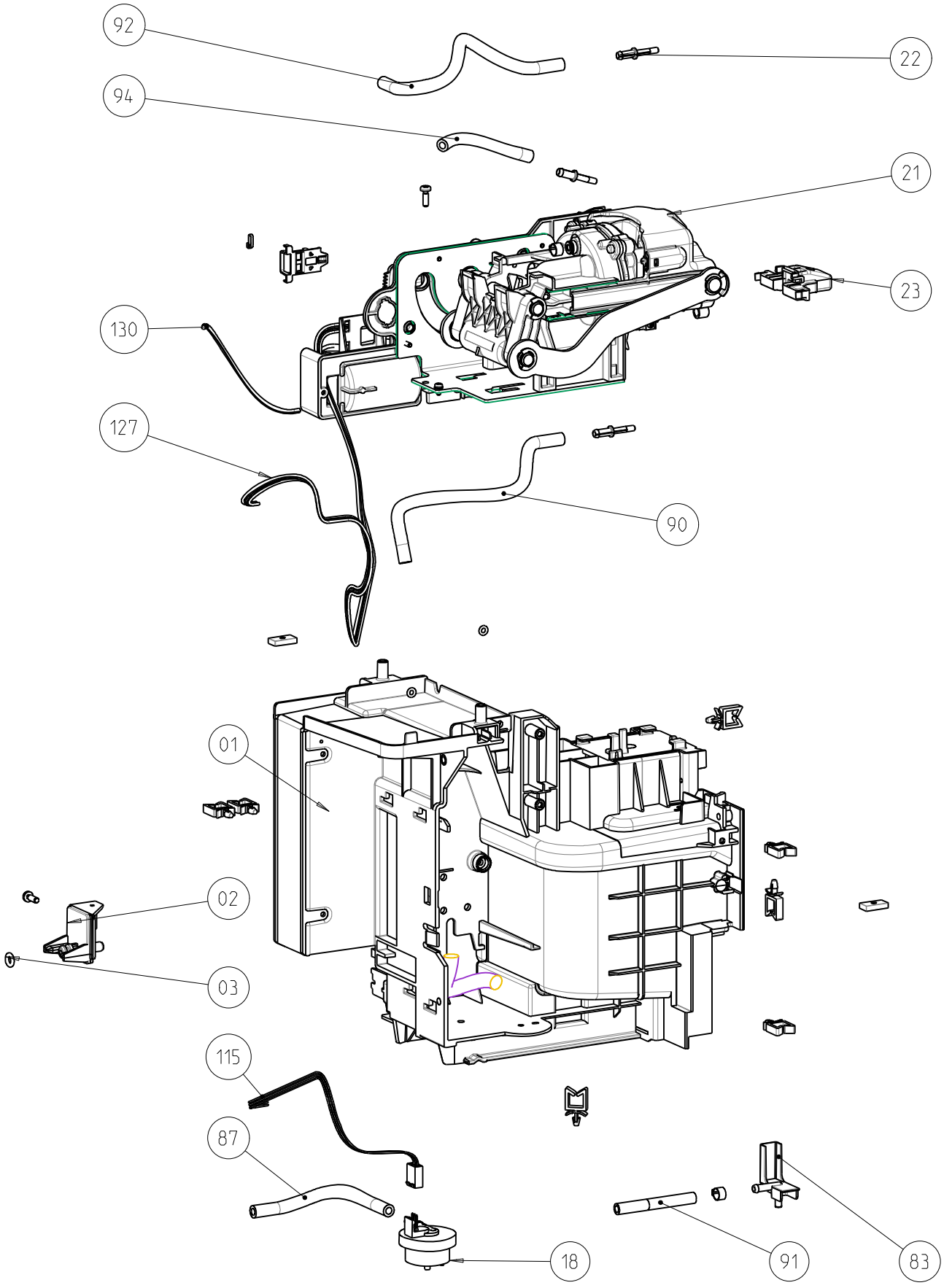


Fig. 111

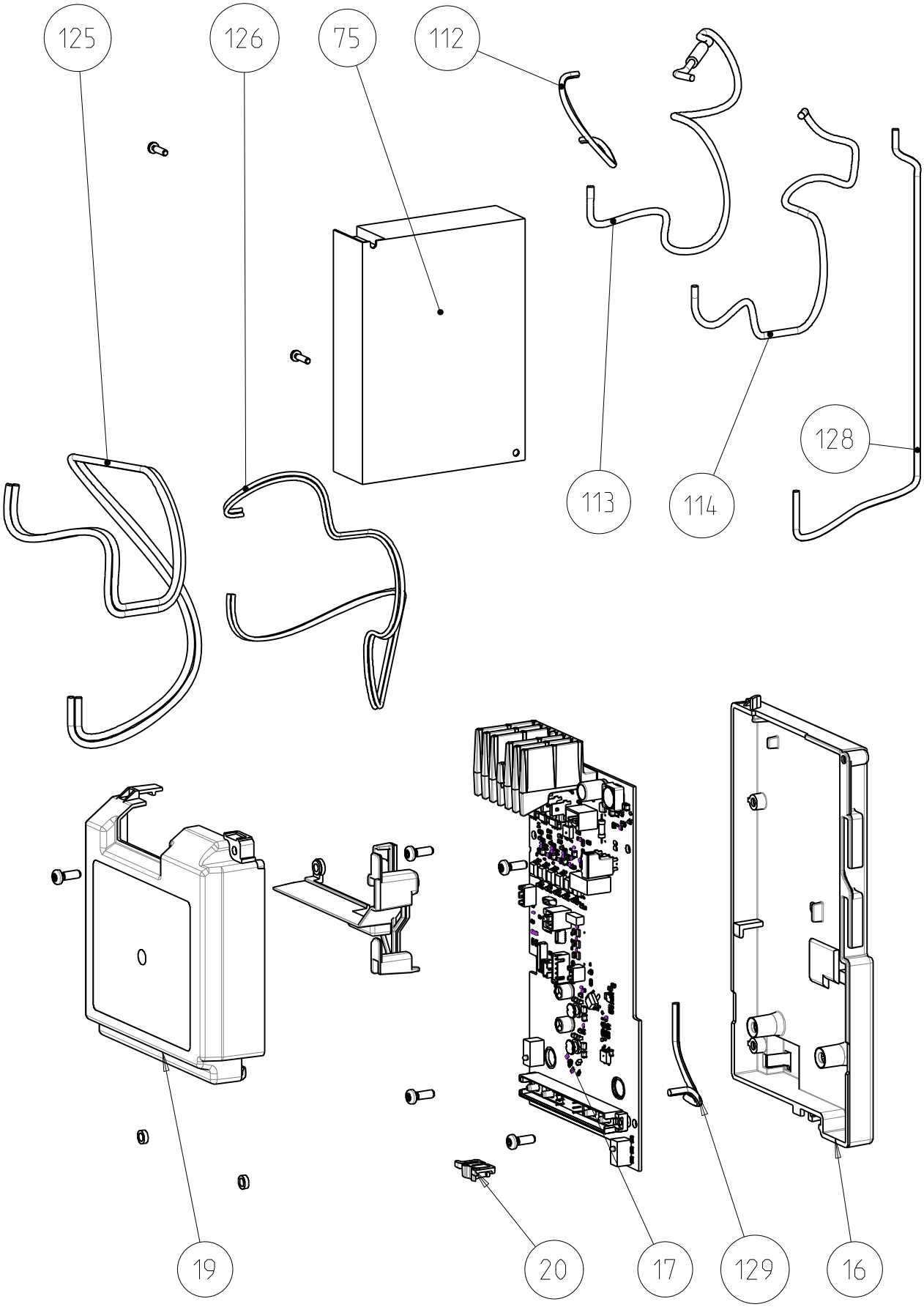


Fig. 112

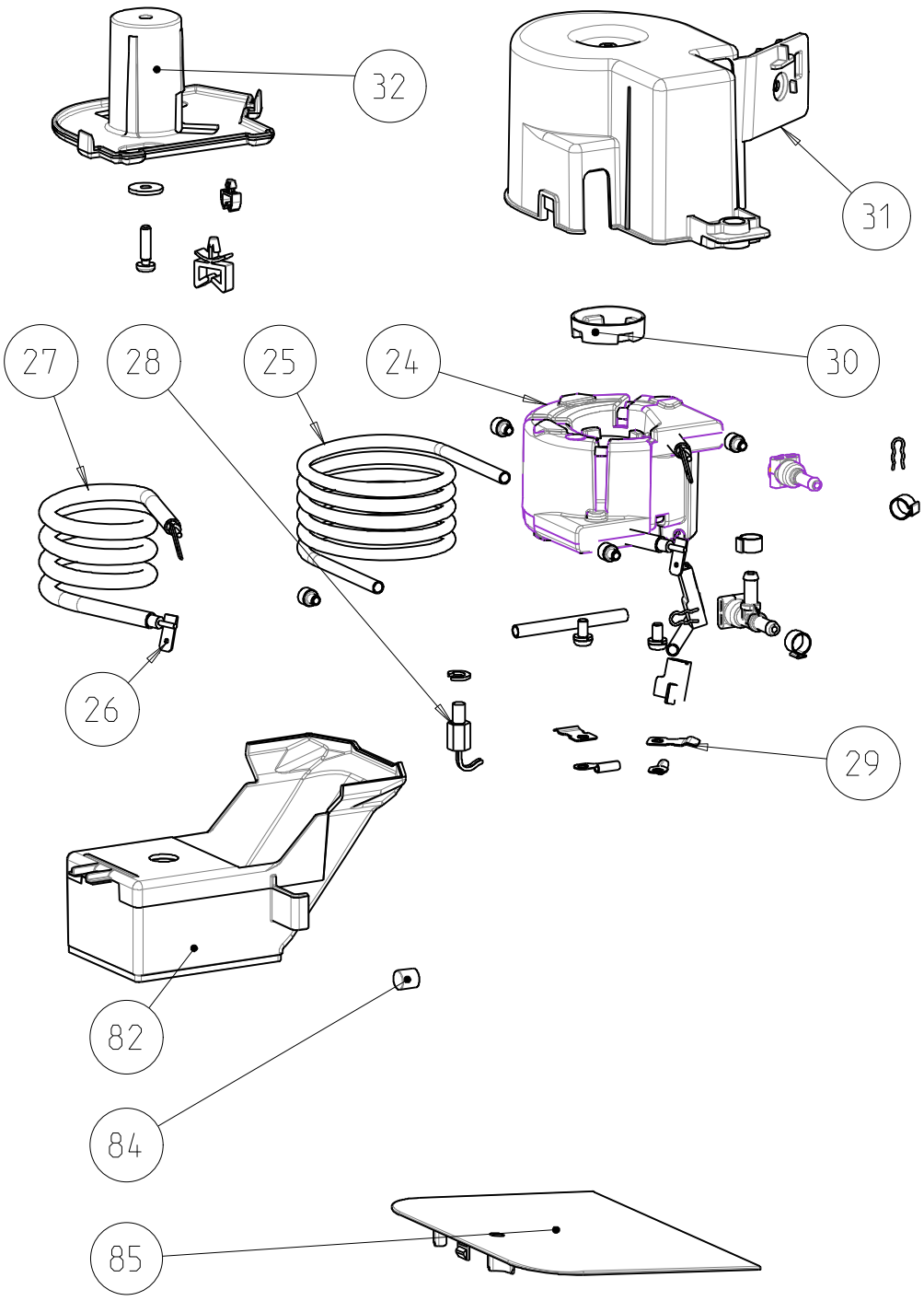


Fig. 113

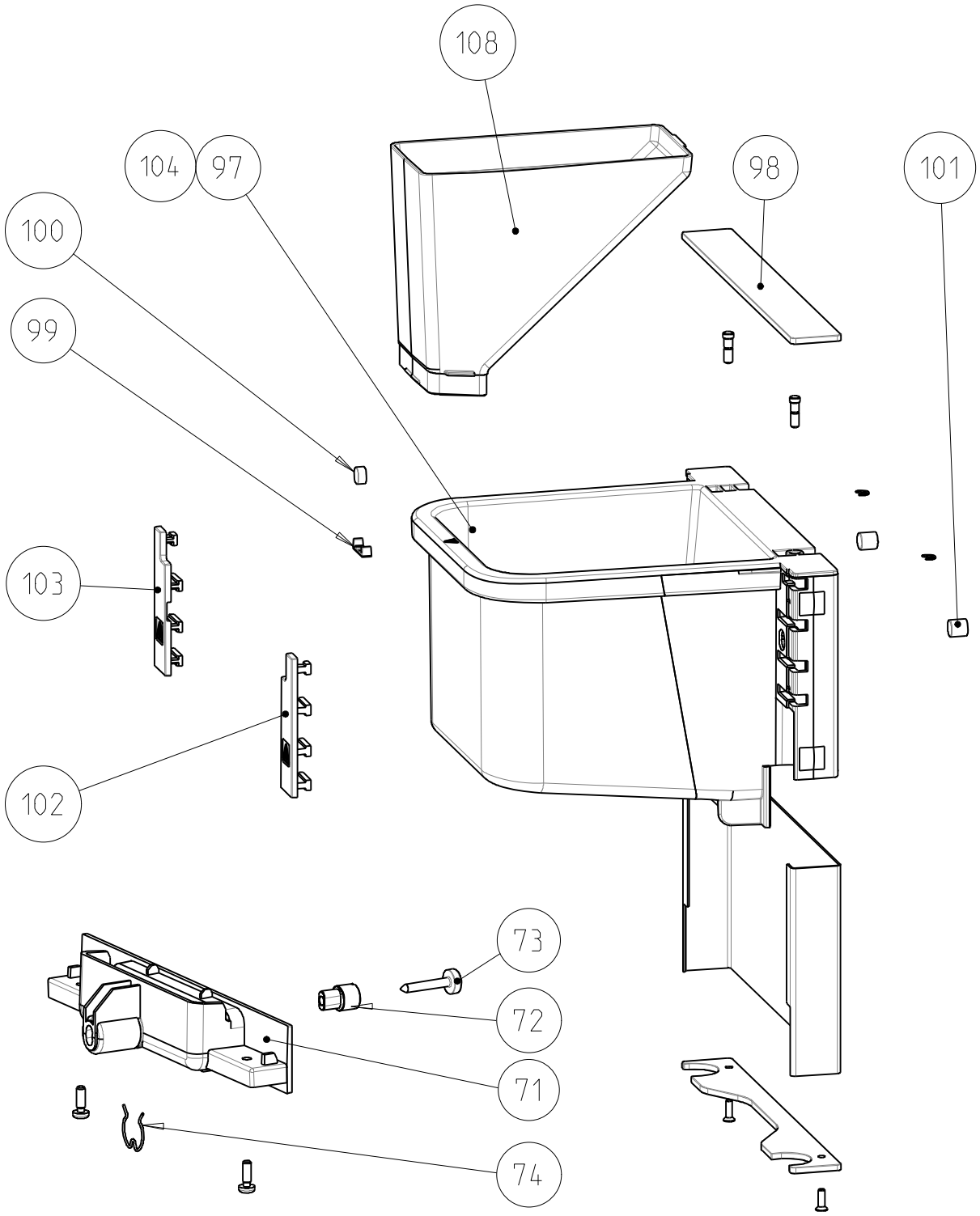


Fig. 114

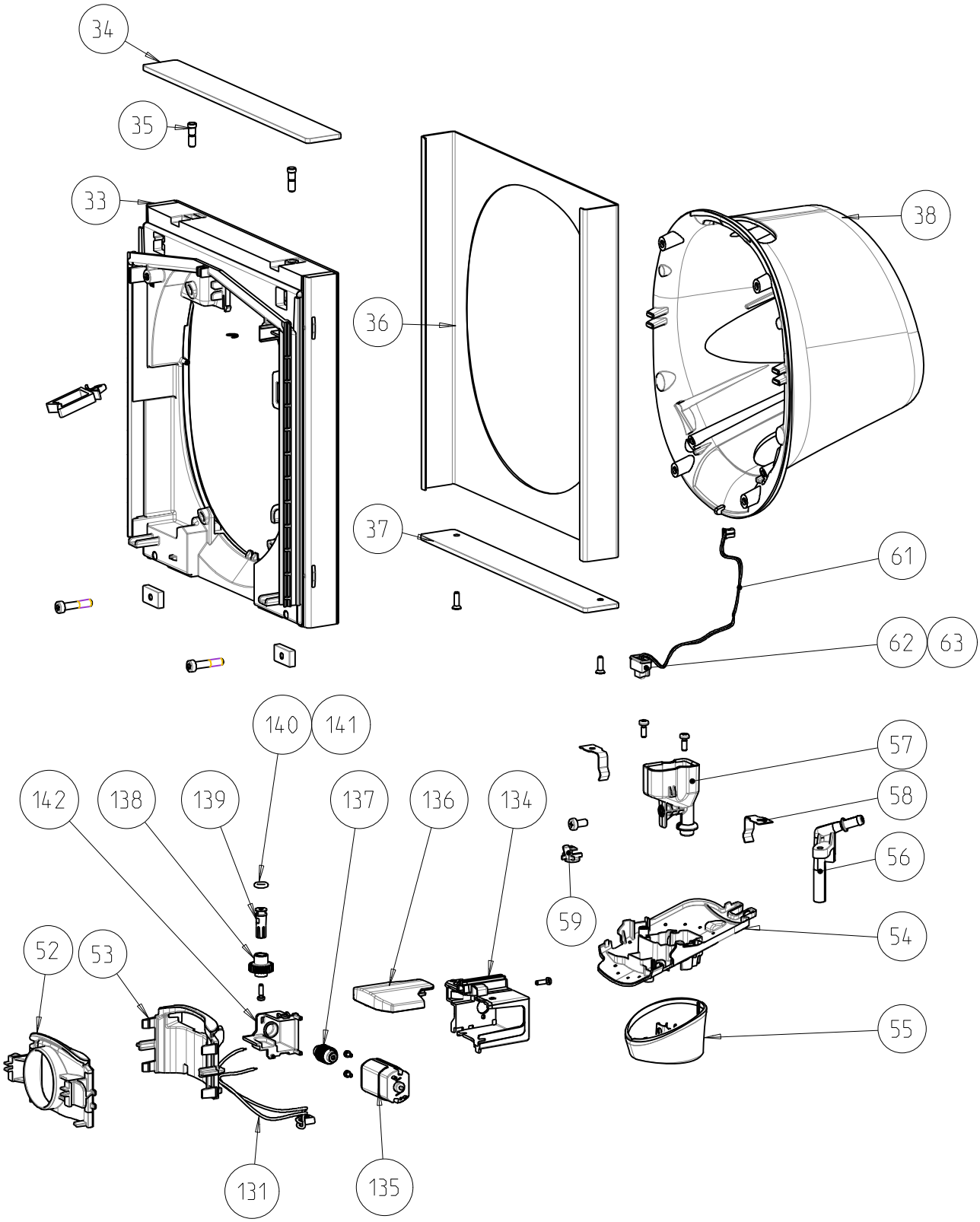

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Fig. 115

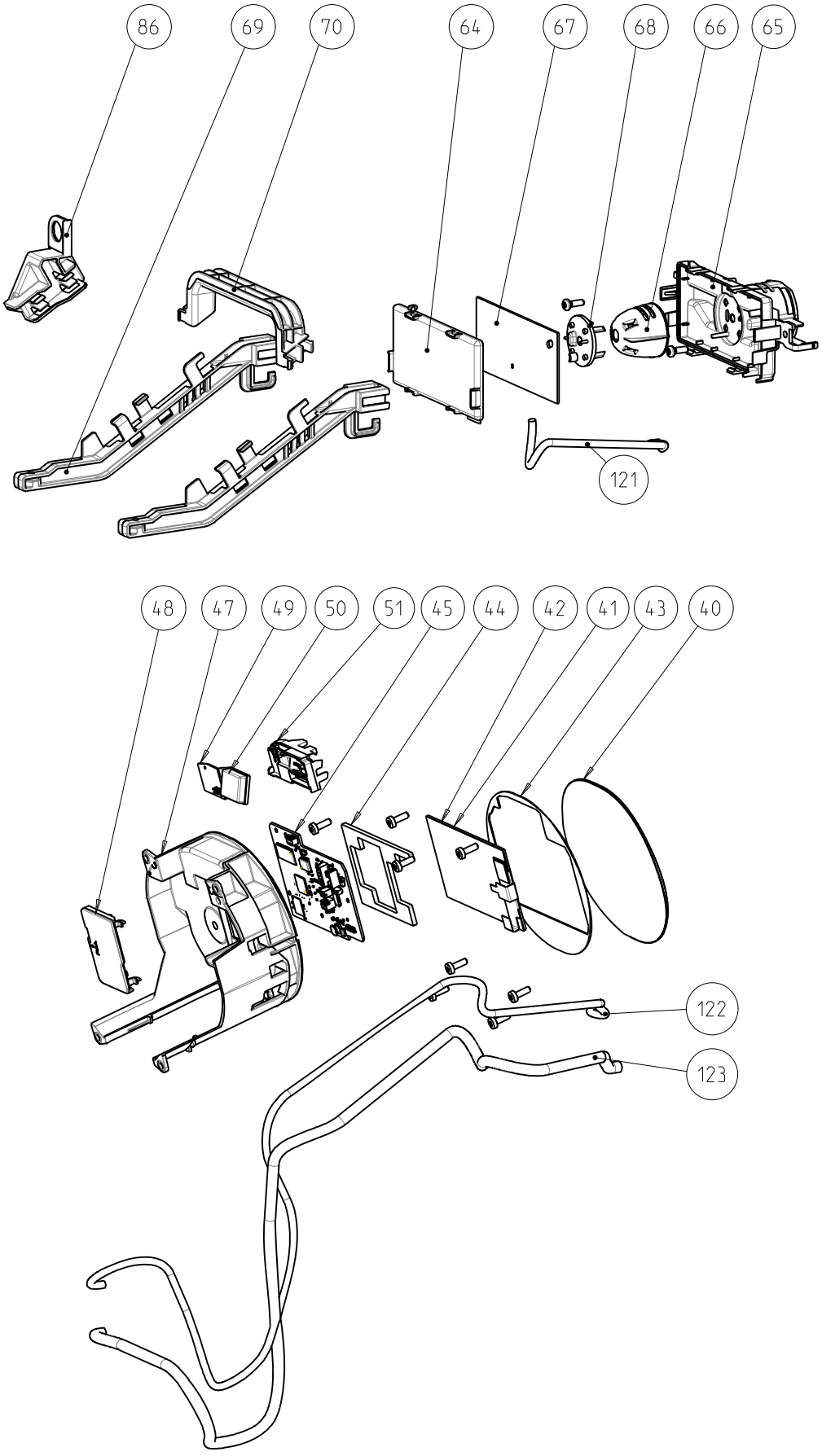

Fig. 116

Spare parts list – Coffee Module

Prefix	Drawing Pos.	Part No.	EF Part No.	Component	A = Assembly	220V-240V 50/60Hz	200V-208V 60Hz	200V-208V 50-60Hz	100V-110V 50/60Hz	120V 60Hz	127V 60Hz
C	01	65256-1	107775	Chassis BU	P		1			1	
		65256-2	108765	Chassis BU	P	1		1	1		1
C	02	65258	108231	Coupling Coffee Module	P	1	1	1	1	1	1
C	03	65318	108895	O-Ring	P	1	1	1	1	1	1
C	04	65316	107848	Support Pump	P	1	1	1	1	1	1
C	05	65875		Wire Saddle	P	1	1	1	1	1	1
C	06	65871-2	109243	Wire Saddle WS 2.2	P	2	2	2	2	2	2
C	07	65566	108629	PCB Hall Sensor	A	1	1	1	1	1	1
C	08	65805-1		Pump CP4SP 230-240V 50Hz IEC	A	1					
		65805-3		Pump CP4SP 110-120V 60Hz UL	A					1	
		65805-4		Pump CP4SP 110-120V 60Hz IEC	A						1
		65805-5		Pump CP4SP 100V 50/60Hz IEC	A				1		
		65805-6	109354	New Pump CP4SP 200-208V 50/60Hz IEC	A			1			
		65805-7		New Pump CP4SP 200-208V 50/60Hz UL	A		1				
C	09	90100-1	25156	Thermostat	P	1	1	1	1	1	1
C	10	90093-1	62311	Fluid-Connector L 90° V4, black	P	1	1	1	1	1	1
C	11	65438		Hose Adapter Male Straight	P	1	1	1	1	1	1
C	12	90016-1	71881	O-ring 3.40x1.90 Silicone	P	1	1	1	1	1	1
C	13	65901		O-ring 5.28x1.78 EPDM	P	1	1	1	1	1	1
C	14	18298		Pump Support Spring	P	1	1	1	1	1	1
		65908	114249	Pump Hose Spring	P	1	1	1	1	1	1
C	15	65398	108673	Damper pump	P	1	1	1	1	1	1
C	16	65259		Housing Main PCB	P	1	1	1	1	1	1
C	17	65554		PCB Main 100-240V 50/60Hz	A	1	1	1	1	1	1
C	18	90114-1	53905	Flowmeter FHKSC12 3.8-20VDC	P	1	1	1	1	1	1
C	19	65431		Separator	P	1	1	1	1	1	1
		65574		Heat sink	P	1	1	1	1	1	1
		65260	107780	Cover Main PCB	P	1	1	1	1	1	1
C	20	65367	108245	Coding Plate	P				1	1	1
C	21	55000		BU Horeca Motorized	A	1	1	1	1	1	1
C	22	65337		Adapter Hose MHBU	P	3	3	3	3	3	3
C	23	65345	108292	Steam Hood	P	1	1	1	1	1	1

Prefix	Drawing Pos.	Part No.	EF Part No.	Component	A = Assembly	220V-240V 50/60Hz	200V-208V 60Hz	200V-208V 50-60Hz	100V-110V 50/60Hz	120V 60Hz	127V 60Hz
C	24	65156-1	108638	Thermo Block 220-240V IEC	A	1					
		65156-2	108639	Thermo Block 120-127V IEC / UL	A					1	1
		65156-3		Thermo Block 100-110V IEC	A				1		
		65156-4	108641	Thermo Block 200-208V IEC / UL	A		1	1			
C	25	65338		Water_Tube	P	1	1	1	1	1	1
C	26	65439		Welded Socket	P	1	1	1	1	1	1
C	27	65339		Heat_Coil	P	1	1	1	1	1	1
C	28	65615	108633	NTC w. Cable	A	1	1	1	1	1	1
C	29	90003-1	21542	STB bracket	P	2	2	2	2	2	2
C	30	65342	108679	Fixation TB	P	1	1	1	1	1	1
C	31	65320	107852	Cover TB	P	1	1	1	1	1	1
C	32	65319	107850	Support TB	P	1	1	1	1	1	1
C	33	65272-1	107965	Base Plate Head Plastic	P		1			1	
		65272-2	108804	Base Plate Head Plastic	P	1		1	1		1
C	34	65273		Base Plate Head Cover Top	P	1	1	1	1	1	1
C	35	65275		Pin Cover Top	P	2	2	2	2	2	2
C	36	65276	108411	Sheet Metal Head	P	1	1	1	1	1	1
C	37	65277	108333	Cover Bottom Head	P	1	1	1	1	1	1
C	38	65278	108385	Cover Front	P	1	1	1	1	1	1
C	40	65279		Cover MMI	P	1	1	1	1	1	1
C	41	65802		Display TFT	A	1	1	1	1	1	1
C	42	65563		Display Bonding	O	1	1	1	1	1	1
C	43	65418		Adhesive MMI Cover	P	1	1	1	1	1	1
C	44	65417		Adhesive MMI PCB	P	1	1	1	1	1	1
C	45	65556		PCB MMI	A	1	1	1	1	1	1
C	47	65280		Housing MMI	P	1	1	1	1	1	1
C	48	65408	108115	Sealing MMI Cables	P	1	1	1	1	1	1
C	49	65569		PCB Proximity Sensor	A	1	1	1	1	1	1
C	50	65803		Proximity Sensor	P	1	1	1	1	1	1
C	51	65407		Spacer Proximity Sensor	P	1	1	1	1	1	1
C	52	65281	107786	Capsule Guiding Back	P	1	1	1	1	1	1
C	53	65442		Capsule Guiding Front	P	1	1	1	1	1	1
C	54	65370	107861	Support Outlet Design	P	1	1	1	1	1	1
C	55	65282	107787	Outlet Design	P	1	1	1	1	1	1
C	56	65284	107823	Outlet Hot Water	P	1	1	1	1	1	1

Prefix	Drawing Pos.	Part No.	EF Part No.	Component	A = Assembly	220V-240V 50/60Hz	200V-208V 60Hz	200V-208V 50-60Hz	100V-110V 50/60Hz	120V 60Hz	127V 60Hz
C	57	65285	107833	Outlet Removable	P	1	1	1	1	1	1
C	58	65286	109043	Metal Sheet Outlet	P	2	2	2	2	2	2
C	59	65378	107867	Light Guide	P	1	1	1	1	1	1
C	62	65379		Support LED Outlet	P	1	1	1	1	1	1
C	63	65619		Sealing Compound LED	P	1	1	1	1	1	1
C	64	65287		Housing Capsule Recognition	P	1		1	1		
C	65	65288		Funnel Capsule Recognition	P	1		1	1		
C	66	65436		Reflector Dome Capsule Reco	P	1	1	1	1	1	1
C	67	65557		PCB Capsule Recognition	A	1	1	1	1	1	1
C	68	65430		Light Guide Capsule Reco	P	1	1	1	1	1	1
C	69	65290	108249	Cross Beam	P	2	2	2	2	2	2
C	70	65406	108090	Handle Coffee Module	P	1	1	1	1	1	1
C	71	65390-1	110110	Handle recess coffee	P		1			1	
		65390-2	108128	Handle recess coffee	P	1		1	1		1
C	72	65270	109041	Sleeve Handle	P	1	1	1	1	1	1
C	73	65271	109056	Fixation Handle	P	1	1	1	1	1	1
C	74	65842	109058	Locking Device	P	1	1	1	1	1	1
C	75	65880	109352	Power Supply Mean Well	A	1	1	1	1	1	1
C	76	65261	108157	Support Valve	P	2	2	2	2	2	2
C	77	65440	108766	Support Valve Coffee	P	1	1	1	1	1	1
C	78	65879-1		Valve 2/2 bistable C0 220V IEC/UL	A	3	3	3			
		65879-2		Valve 2/2 bistable C0 120V IEC/UL	A				3	3	3
C	79	65329	107855	Hose Connector T1	P	2	2	2	2	2	2
C	80	65437		Hose Adapter Female Straight	P	6	6	6	6	6	6
C	81	90016-1	71881	O-ring 3.40x1.90 Silicone	P	7	7	7	7	7	7
C	82	65257	108180	Capsule chute	P	1	1	1	1	1	1
C	83	65393	107879	Connector drain	P	1	1	1	1	1	1
C	84	65371	109193	Magnet	P	2	2	2	2	2	2
C	85	65254	108234	Cover Capsule Extern	P	1	1	1	1	1	1
C	86	65415	108294	Support Milk Coupling	P	1	1	1	1	1	1
C	87	90026-1	5238	Silicone hose for water (per m)	P						
C	88	65306	108657	Hose FM Pump	P	1	1	1	1	1	1
C	89	65814-1		Hose High Pressure per meter	P						
C	90	65814-1		Hose High Pressure per meter	P						
C	91	65814-1		Hose High Pressure per meter	P						

Prefix	Drawing Pos.	Part No.	EF Part No.	Component	A = Assembly	220V-240V 50/60Hz	200V-208V 60Hz	200V-208V 50-60Hz	100V-110V 50/60Hz	120V 60Hz	127V 60Hz
C	92	65814-1		Hose High Pressure per meter	P						
C	93	65814-1		Hose High Pressure per meter	P						
C	94	65814-1		Hose High Pressure per meter	P						
C	95	65814-1		Hose High Pressure per meter	P						
C	96	65814-1		Hose High Pressure per meter	P						
C	97	65251	108078	Capsule Container	P	1	1	1	1	1	1
C	98	65273		Base Plate Head Cover Top	P	1	1	1	1	1	1
C	99	65453		Capsule Container Lid	P	1	1	1	1	1	1
C	100	65902		Magnet Ø8x4	P	1	1	1	1	1	1
C	101	65371	109193	Magnet	P	2	2	2	2	2	2
C	102	65380	108682	Caps Cont Damper-Left	P	1	1	1	1	1	1
C	103	65381	108684	Caps Cont Damper-Right	P	1	1	1	1	1	1
C	104	65344		Capsule Container fall-through	P	1	1	1	1	1	1
C	108	65255		Funnel Capsule Container	P	1	1	1	1	1	1
C	109	65504	109256	Cable N Pump	A	1	1	1	1	1	1
C	110	65505	109259	Cable L Main - Thermal Switch	A	1	1	1	1	1	1
C	111	65509	109264	Cable L Thermal Switch - Pump	A	1	1	1	1	1	1
C	112	65513	108733	Cable PE TB - Access Point MHBU right	A	1	1	1	1	1	1
C	113	65510	108731	Cable L with TCO TB	A	1	1	1	1	1	1
C	114	65511	108732	Cable N with TCO TB	A	1	1	1	1	1	1
C	115	65517	109268	Cable Flow Meter	A	1	1	1	1	1	1
C	116	65518	109271	Cable L Valve Coffee Americano Drain	A	1	1	1	1	1	1
C	118	65521	109274	Cable N Valve Coffee	A	1	1	1	1	1	1
C	119	65522	110136	Cable N Valve Americano	A	1	1	1	1	1	1
C	120	65523	110137	Cable N Valve Drain	A	1	1	1	1	1	1
C	121	65531	109276	Cable Signal Capsule Recognition	A	1	1	1	1	1	1
C	122	65532	109277	Cable Signal Main - MMI	A	1	1	1	1	1	1
C	123	65533	109279	Cable 24V/3V Main - MMI	A	1	1	1	1	1	1
C	124	65537	109280	Cable VCC & Out Capsule Container Presence	A	1	1	1	1	1	1
C	125	65538	109282	Cable L N PSU Connection	A	1	1	1	1	1	1
C	126	65540	109284	Cable 24V/GND PSU Connection	A	1	0	1	1	0	1
C	127	65600	109322	Cable MHBU Connection	A	1	1	1	1	1	1
C	128	65506	109260	Cable PE PSU - TB	A	1	1	1	1	1	1
		65514	112465	Cable PE PSU - TB detacheable	A	1	1	1	1	1	1
C	129	65507		Cable PE Main - PSU Coffee Module	A	1	1	1	1	1	1

Prefix	Drawing Pos.	Part No.	EF Part No.	Component	A = Assembly	220V-240V 50/60Hz	200V-208V 60Hz	200V-208V 50-60Hz	100V-110V 50/60Hz	120V 60Hz	127V 60Hz
C	130	65508		Cable PE TB - Access Point MHBU left	A	1	1	1	1	1	1
C	131	65534		Cable motor capsule lid	A	1	1	1	1	1	1
C	134	65443		Support Motor	P	1	1	1	1	1	1
C	135	65887		Motor	P	1	1	1	1	1	1
C	136	65444		Lid Capsule Inlet	P	1	1	1	1	1	1
C	137	65445		Worm Gear	P	1	1	1	1	1	1
C	138	65446		Gear Wheel	P	1	1	1	1	1	1
C	139	65447		Spur Gear	P	1	1	1	1	1	1
C	140	65906		O-Ring	P	1	1	1	1	1	1
C	141	65907		Grease	P	1	1	1	1	1	1
C	142	65448		Support Worm Gear	P	1	1	1	1	1	1

NOTES