CONTENTS

1 Preface .................................................................................................................. 3

2 Structure ............................................................................................................... 4
  2.1 Overview of the rating plates ......................................................................... 4
  2.2 Overview .......................................................................................................... 6
  2.3 Water circuit .................................................................................................... 7
  2.4 Technical data .................................................................................................. 8

3 Operations ........................................................................................................... 9
  3.1 Filling the water system ................................................................................... 9
  3.2 Making a cup of coffee ................................................................................... 10
  3.3 Programming the fill level ............................................................................... 11
  3.4 Resetting the fill level to the factory default ................................................... 11
  3.5 Emptying the water system ............................................................................ 12
  3.6 Light signals .................................................................................................... 13

4 Troubleshooting .................................................................................................. 14
  4.1 Check list ......................................................................................................... 14

5 Repairs .................................................................................................................. 16
  5.1 Tools and accessories ....................................................................................... 16
  5.2 General disassembly ........................................................................................ 16
  5.3 Replacing the compact brewing unit ............................................................... 22
  5.4 Replacing the thermoblock, NTC-temperature sensor and fine wire fuse(s) ... 23
  5.5 Replacing the pump with the fine wire fuse ..................................................... 24
  5.6 Replacing the flow meter ................................................................................. 26
  5.7 Replacing the mainboard with the button prints ............................................. 27
  5.8 Replacing the on/off switch and/or the mains cable ....................................... 28
  5.9 Wiring diagrams ............................................................................................... 29

6 Function tests ....................................................................................................... 32
  6.1 Measure flow rate ............................................................................................. 32
  6.2 Pressure and leakage checks .......................................................................... 33
  6.3 Measuring the coffee temperature ................................................................... 36

7 Maintenance .......................................................................................................... 37
  7.1 Descaling .......................................................................................................... 37
  7.2 Daily maintenance, cleaning ........................................................................... 39

8 Spare parts ............................................................................................................ 40
1 PREFACE

The purpose of this service manual is to provide service personnel all necessary information with regards to the correct handing, maintenance and repair of the EF 472 coffee machine.

This manual should be used by technicians as a valuable aid to guarantee the permanent readiness of the machine. and in order to upkeep the full advantages of all the functions, it is absolutely necessary to follow the instructions in this service manual.

The required utility software to read PDF files (Adobe Reader®) for PCs and MAC computers
- is included on the Le Cube Service CD-ROM,
- can be downloadad (under http://www.adobe.com) for free - please click logo:

Please print out this manual and keep it together with the corresponding service documentation. This way you are assured to have the necessary information.
2 STRUCTURE

2.1 Overview of the rating plates

This overview shows examples of various brands and is not complete.
The rating plate can be found on the underside of the coffee machine, may be of very design, depending on the brand and carries the following information:

1) Brand name 6) Serial number
2) Voltage and power rating 7) Machine type
3) Place of manufacture 8) Special disposal icon
4) Conform with RoHS-guidelines (lead free solder, etc.) 9) Approval seal (CE, UL etc.)
5) Barcode 10) Article number of the rating plate

Decoding the alphanumeric serial number

Example:

060264721000068G0J

- Checksum (if available)
- Color version
- Type of mains plug
- Mains voltage
- Distributing partner
- Incremental number per production day
- Manufacturing plant
- Manufacturer designation of the machine type (EF 472)
- 06026 ... Date of production
  (06 = year 2006, 026 = 26. day of the year)

By decoding the date of production and machine type, the coffee machine can be identified exactly.
2.2 Overview

1) Closing handle
2) Cup cover, foldable
3) Warming plate or tray (depends on model)
4) Compact Brewing Unit (CBU)
5) Capsule inlet
6) Flow meter
7) "Small cup" button, back lighted
8) "Large cup" button, back lighted
9) Coffee outlet
10) Capsule container
11) Light guide to the capsule container
12) Cup tray, foldable
13) Drip tray
14) Thermoblock TB 2003
15) Mainboard with housing
16) Pump CP.04.098.0/ST/S/P
17) Water tank with valve, foldable
18) Connector (below the water tank)
19) Connector On/Off - switch
20) Front cover
21) Support for compact brewing unit
22) Drip tray
2.3 Water circuit

1) Water tank
2) Water tank valve and connector
3) Flow meter
4) Pump
5) Thermoblock
6) Compact Brewing Unit (CBU)
7) Coffee outlet
## 2.4 Technical data

### Mains voltage
- **Europe**: 230 V / 50 Hz
- **USA / Canada**: 120 V / 60 Hz
- **Japan**: 100 V / 50-60 Hz

### Approvals
- SEV, CENELEC, CE-conform, to UL, CUL, MITI

### Power ratings (for all voltages and frequencies)
- **Thermoblock**: 1'200 W
- **Pump**: 70 W

### Performance data
- **Heating up**: approx. 7.5 Wh
- **1 small cup** (40 ml*) approx. 3.0 Wh
- **1 large cup** (110 ml*) approx. 8.0 Wh
- **Standby operation in 1 hour** (without cup warmer**) approx. 13 Wh
  - (with cup warmer**) approx. 20 Wh
* Default settings
** version dependent machine function

### Pump
- **Pump pressure**
  - Max. permissible: 17.5 bar ±1,5 bar
  - During coffee preparation (depending on the type of coffee): 9 - 16 bar
- **Flow performance**: 120 - 240 ml/min. at 12 bar

### Capacities
- **Water tank**: 0.9 l
- **Drip tray**: approx. 100 ml
- **Capsule container**: 12 - 15 pieces

### Various data
- **Preheating time**: approx. 45 sec.
- **Safety temperature (thermal cut-off)**: 167° C
- **Coffee temperature at outlet**: 86° C ± 3° C
- **Dimensions (width x height x depth)**: 226 x 230 x 230 mm
- **Cable length**: approx. 1 m
- **Weight of the coffee machine (without water)**: approx. 4.5 kg
3 OPERATIONS

3.1 Filling the water system

Requirements:
The coffee machine is switched on and has heated up.
1) Press the "Large cup" button.
   - The pump starts to work.

2) Open the closing handle, push it backwards to the stop and hold it in this position for approximately 3 seconds.
3) Check if any water leaks from the capsule inlet.

4) Close the handle immediately if a leakage is visible.
5) Press the "Large cup" button again to stop the pump.
   - The coffee machine is now ready.

If the coffee machine cannot pump water although there is water in the tank, the water circuit may be empty (also refer to page 12).

A small amount of steam may seep through the capsule bay.
3.2 Making a cup of coffee

1) Open the closing handle.
2) Insert the capsule.
3) Close the handle and press it down all the way.
4) Place a cup under the coffee outlet.
5) Press the “Small cup” or “Large cup” button.
   - Coffee preparation starts and stops automatically.
   - Should the cup start to overflow, press the same button again.
6) When the process is completed, briefly open the closing handle to eject the used capsule.
3.3 Programming the fill level

1) Prepare coffee as usual (see "Making a cup of coffee" on page 10), but keep the coffee button pressed for at least three seconds in order to start programming mode.

2) Only release the button when the desired fill level is reached.

The procedure is the same for both cup sizes (fill level 10 - 750 ml).

3.4 Resetting the fill level to the factory default

1) Switch off the coffee machine.

2) Press and hold the "Large cup" button.

3) Switch on the coffee machine.

4) Release the button
3.5 Emptying the water system

After every operation, some water remains in the coffee machine. Therefore the water system must be emptied:
- if the coffee machine will not be used for a long time
- as antifreeze measure
- for repairs and shipment.

1) Switch off the coffee machine.
2) Pull out or remove the water tank.
3) Place a beaker under the coffee outlet.
4) Press and hold the "Small cup" button.
5) Switch the coffee machine on again.
6) Release the "Small cup" button.

- The pump starts to drain the water system and stops automatically.
- The On/Off switch and the lights of the capsule container blink simultaneously.

7) Switch off the coffee machine.
3.6 Light signals

The meaning of the symbols

<table>
<thead>
<tr>
<th>Symbols for</th>
<th>On/Off switch</th>
<th>&quot;Small cup&quot; button</th>
<th>&quot;Large cup&quot; button</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illumination off</td>
<td>🕉️</td>
<td>🕉️</td>
<td>🕉️</td>
</tr>
<tr>
<td>Illumination on</td>
<td>🕉️</td>
<td>🕉️</td>
<td>🕉️</td>
</tr>
<tr>
<td>Normal blinking</td>
<td>🕉️</td>
<td>🕉️</td>
<td>🕉️</td>
</tr>
<tr>
<td>Fast blinking</td>
<td>🕉️</td>
<td>🕉️</td>
<td>🕉️</td>
</tr>
<tr>
<td>Irregular blinking</td>
<td>🕉️</td>
<td>🕉️</td>
<td>🕉️</td>
</tr>
</tbody>
</table>

Indicators

<table>
<thead>
<tr>
<th>Status / Error</th>
<th>On/Off switch</th>
<th>&quot;Small cup&quot; button</th>
<th>&quot;Large cup&quot; button</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off</td>
<td>🕉️</td>
<td>🕉️</td>
<td>🕉️</td>
</tr>
<tr>
<td>Heating up</td>
<td>🕉️</td>
<td>🕉️</td>
<td>🕉️</td>
</tr>
<tr>
<td>Ready</td>
<td>🕉️</td>
<td>🕉️</td>
<td>🕉️</td>
</tr>
<tr>
<td>Coffee for a small cup / programming / rinsing</td>
<td>🕉️</td>
<td>🕉️</td>
<td>🕉️</td>
</tr>
<tr>
<td>Coffee for a large cup / programming / rinsing</td>
<td>🕉️</td>
<td>🕉️</td>
<td>🕉️</td>
</tr>
<tr>
<td>Descaling ready / quit</td>
<td>🕉️</td>
<td>🕉️</td>
<td>🕉️</td>
</tr>
<tr>
<td>Emptying the water system</td>
<td>🕉️</td>
<td>🕉️</td>
<td>🕉️</td>
</tr>
<tr>
<td>Standby (after emptying water system)</td>
<td>🕉️</td>
<td>🕉️</td>
<td>🕉️</td>
</tr>
<tr>
<td>Error</td>
<td>🕉️</td>
<td>🕉️</td>
<td>🕉️</td>
</tr>
</tbody>
</table>

The various operating modes and occurring errors are indicated by light signals (see tables).
With an acceptance check in accordance with this checklist, errors are quickly found and corrected with the appropriate measure. Therefore, adhere to the sequence of the check list. Repair every occurring error and work the check list until it is completed.

# 4 Troubleshooting

## 4.1 Check list

<table>
<thead>
<tr>
<th>Check</th>
<th>Error symptoms</th>
<th>Measure / repair work</th>
<th>Further measures / repair work</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1 Housing parts broken or damaged</td>
<td>YES - replace housing parts if necessary NO - continue with point 1.2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.2 Mains cable damaged</td>
<td>YES - replace the mains cable NO - connect the cable from machine to the mains and continue with point 2.1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.1 When the coffee machine is switched off, the cup tray remains in the vertical position</td>
<td>YES - continue with point 2.2</td>
<td>YES - replace damaged or deformed cup tray</td>
<td></td>
</tr>
<tr>
<td>2.2 Closing handle functions</td>
<td>NO - it is very difficult or almost impossible to close the handle and to press it all the way down</td>
<td>YES - replace the compact brewing unit</td>
<td></td>
</tr>
<tr>
<td>2.3 The capsule is ejected correctly</td>
<td>YES - continue with point 2.4 NO - replace compact brewing unit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.4 Seal on the capsule cage is damaged (check seal with your finger)</td>
<td>YES - replace the compact brewing unit NO - continue with point 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.1 Water tank leaks</td>
<td>YES - replace water tank NO - continue with point 4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.1 Cup tray folds down</td>
<td>NO - locking mechanism works</td>
<td>YES - replace damaged or deformed cup tray NO - replace locking mechanism</td>
<td></td>
</tr>
<tr>
<td>4.2 The coffee machine is not working (does not function)</td>
<td>YES - a) mains cable is okay YES - b) on-off switch is okay YES - c) pump works (press a coffee button) YES - d) both coffee buttons are working YES - e) fine wire fuse (128°C) on the pump is defective YES - f) fine wire fuse(s) (167°C) on the thermoblock defective</td>
<td>YES - continue with point b) NO - replace mains cable YES - continue with point c) NO - replace on-off switch YES - continue with point f) NO - replace point d) YES - replace fine wire fuse NO - replace pump YES - replace entire electronics, if necessary, even replace thermoblock</td>
<td>NO - continue with point g)</td>
</tr>
<tr>
<td>Check</td>
<td>Error symptoms</td>
<td>Measure / repair work</td>
<td>Further measures / repair work</td>
</tr>
<tr>
<td>-------</td>
<td>----------------</td>
<td>----------------------</td>
<td>-------------------------------</td>
</tr>
</tbody>
</table>
| 4 Continuation | 4.2 Continuation | YES - g) wiring is okay | YES - replace the entire electronics  
NO - continue with point 4.3 |
| | 4.3 Capsule container is illuminated | YES - continue with point 4.4 | NO - replace mainboard |
| | 4.4 Both coffee buttons are blinking 3x fast | YES - thermoblock is hot | YES - replace NTC-temperature sensor  
NO - replace thermoblock  
NO - self test ok.  
Continue with point 5 |
| 5 Measure coffee temperature during preparation (see "Measuring the coffee temperature" on page 36) | 5.1 No coffee | YES - a) water system is empty | YES - for further procedures, see "Filling the water system" on page 9  
NO - continue with the point b)  
YES - b) flow meter blocked | YES - clean or replace  
NO - continue with point c)  
YES - c) pyramid plate blocked | YES - replace the compact brewing unit  
NO - continue with point d)  
YES - d) coffee machine is calcified | YES - descale coffee machine (see "Descaling" on page 37)  
NO - continue with point 5.2 |
| | 5.2 Temperature is too low (below 83°C) | YES - Descale coffee machine  
(see "Descaling" on page 37) | YES - descale coffee machine (see "Descaling" on page 37)  
NO - continue with point 5.3 |
| | 5.3 Temperature too high (over 89°C) | YES - replace NTC-temperature sensor | YES - replace NTC-temperature sensor  
NO - continue with point 6 |
| 6 Check for leakage and measure flow rate (see "Measure flow rate" on page 32 or "Pressure and leakage checks" on page 33) | 6.1 CBU leaks | YES - replace the compact brewing unit  
NO - continue with point 6.2 | YES - descale coffee machine  
NO - replace pump  
NO - no errors found according to checklist  
for more information please contact Nespresso Service Division |
| | 6.2 Hose connections leak | YES - replace defective hoses and seals  
NO - continue with point 6.3 | YES - descale coffee machine  
(see "Descaling" on page 37)  
NO - replace pump  
NO - no errors found according to checklist  
for more information please contact Nespresso Service Division |
| | 6.3 Rate of flow not in the standard range | YES - coffee machine is calcified | YES - descale coffee machine  
(see "Descaling" on page 37)  
NO - replace pump  
NO - no errors found according to checklist  
for more information please contact Nespresso Service Division |
| 7 Descale coffee machine (if necessary) | 7.1 Coffee machine is calcified | YES - Descale coffee machine  
(see "Descaling" on page 37) | YES - descale coffee machine  
(see "Descaling" on page 37)  
NO - continue with point 8 |
| 8 Final cleaning (see "Daily maintenance, cleaning" on page 39) | | | |

End of check list
5 REPAIRS

The components of the coffee machine are mostly connected with latches, meaning without screws.

When loosening these connections, proceed with care and patience to avoid causing any damage.

Designation of spare parts

The components in the following illustrations are indexed with position numbers. The corresponding designation and spare part number are listed in section "Spare parts" on page 40.

5.1 Tools and accessories

With the following assortment of tools, all repairs described can be made.

- Oval-screwdriver
- TORX-screwdriver (TX6, TX10, TX20, TX25)
- Screwdriver with approx. 4 mm tool tip
- Hexagonal wrench SW 4
- Flat wrench SW 14, 10 mm AF
- Torque wrench
- Long-nosed pliers
- Beaker and towel to catch and wipe away leaking water

5.2 General disassembly

General disassembly
- gives access to the important machine components
- is required for the following repair instructions.

Depending on the repair done the machine does not have to be fully disassembled.
1. Remove the water tank (21), drip tray (29) with cup tray (28) and capsule container (26).
2. Open the closing handle (56)
3. Remove the coffee outlet (25). The coffee outlet is attached with two latching levers on both sides (a).
   Press down on both sides of the coffee outlet with your thumb and index finger and remove it (see the details).

Should any problems occur, then the coffee outlet can be disassembled as follows (see previous illustration):
• Press the coffee outlet downwards until on the left side of the gap in the front panel (30) the groove (b) becomes visible.
• Place the screwdriver tip in the groove, carefully pry the coffee outlet (25) loose and remove it.

4. Remove the front cover (30):
   First loosen the two latching locks on the bottom.
   Place a screwdriver tip alternately in both slots (c) on the housing base and press hard to loosen the locking latches. Simultaneously pull out the underside of the front cover of the same side.
5. Remove the rear panel (47):
   Loosen the two screws (34) behind the housing (32).
   Loosen the three screws (34) on the rear panel. Press the locking latch (d) downward with the tip of the screwdriver and remove the rear panel.

6. Remove both cup covers (17).
7. Remove the left (20) and right covers (36):
   Carefully press the tip of the screwdriver in the housing opening in order to loosen the locking latch (e). Pull off the corresponding cover at the same time.
8. Place the closing handle (56) in the vertical position and remove the cover lid (57).
9. Remove the coffee tap (24).
10. Remove the compact brewing unit (58), loosen the four screws (55) and place the compact brewing unit on one side.
11. Remove the drip tray (59) : Loosen the two locking latches on both sides (f) of the capsule bay manually.
12. Remove the cup tray or heating plate (42) (depends on machine type) :
   If removing heating plate, loosen the screw (3) of the grounding connection first.
   Push the tray or heating plate backwards until both plugs (g) are removed from the housing. Then lift it and remove backwards, diagonally.
13. Remove the side panels (39).
   Loosen the two screws (34) on the bottom of the housing and remove the side panels.

The following function test can now be done:
• "Pressure and leakage checks" on page 33
The following repairs can now be done:

- "Replacing the compact brewing unit" on page 22
- Replace NTC-temperature sensor, see "Replacing the thermoblock, NTC-temperature sensor and fine wire fuse(s)" on page 23. (The thermoblock can only be replaced after the compact brewing unit has been removed, see "Replacing the compact brewing unit" on page 22.)
- "Replacing the flow meter" on page 26

For all other repair works the support (13) of the compact brewing unit must be loosened from the floor (32).

14. Loosen the last three screws (34) on the underside of the housing (32).
15. Use the screwdriver to carefully loosen the four locking latches (h) and to simultaneously pull the support (13) upwards. In the end, carefully move the support forward.
16. Assemble in the reverse sequence after the repair works have been completed.
Mounting tip for heating plate (depends on machine type)

- Check if the two heat conductor disks (60) adhere to the heating plate (42) on the correct positions.
- When assembling, make sure that the heating plate (42) with the heat conductor disks (60) is well set onto the thermoblock (5).
5.3 Replacing the compact brewing unit

Repair tips

- Remove the drip tray (59): press and loosen the two locking latches on the side (i) of the capsule bay.
- In addition to the compact brewing unit (58) also replace:
  - the coffee tap (24)
  - the O-ring (46) on the thermoblock-hose connection
- The spare compact brewing unit (58)
  - is used in the EF 470 and EF 471 coffee machines,
  - has therefore a longer axes protruding from the side.
- Check the axial and parallel alignment of the closing handle (56) to the housing of the compact brewing unit (58). Should there be any deviations, tighten the mounting screws of the closing handle or replace a bent closing handle.
5.4 Replacing the thermoblock, NTC-temperature sensor and fine wire fuse(s)

Repair tips for the thermoblock
- When mounting the new thermoblock (5) align the positioning holes on the bottom to the damping element (8).

Repair tips for the NTC-temperature sensor
- Do not twist the NTC-cable when plugging and unplugging the NTC-temperature sensor (6) : unplug the NTC-plug from the main board.
- Tighten the new NTC-temperature sensor (6) and spring ring (7) with a torque wrench (90 - 110 Ncm).

Repair tips for the fine wire fuse(s)
- When mounting the safety clips (4) make sure that the housing of the fine wire fuse (900) is positioned exactly below the safety clips.
- To replace a defective fine wire fuse with in the corresponding wiring, the support (13) of the compact brewing unit must be removed from the floor (32).

Check if residual water leaks from the thermoblock.

Depending on the series, one or two fine wire fuses are mounted on the thermoblock (see "Wiring diagrams" on page 29).
5.5 Replacing the pump with the fine wire fuse

Repair tip for the fluid system support
- Remove the fluid systems support (11) from the floor (32): insert the tip of the screwdriver into the slits in the housing base and press and locking latches to one side. Simultaneously lift the support (11). After loosening both locking latches, tilt up the support (11) and pull it out of the anchoring on the other side.
Repair tips for pump

- Always replace a defective pump (48) together with the fine wire fuse.
- When installing a new pump the angled hose connection (44) may have to be realigned: the white plastic lid on the pump is rotatable and has two flat surfaces onto which the flat wrench can be placed.

Mounting tip for the thermoblock

- When mounting the thermoblock (5) align the positioning holes on the bottom to the damping element (8).
5.6 Replacing the flow meter

Repair tip for flow meters
• Pull the flow meter (41) firmly upwards to remove it.
5.7 Replacing the mainboard with the button prints

Repair tips

- Check the assembly position of the spring (14).
- A label on the housing of the mainboard (35) contains specifications on the hardware and software version.
- After assembly check the plug arrangement of the mainboard (see "Wiring diagrams" on page 29).

When installing a new electronic component, the service technician must earthing with a grounding band.
5.8 Replacing the on/off switch and/or the mains cable

Repair tips
- Check the assembly position of the spring (14).
- Remove the insulation housing (23): place screwdriver tip from below into the switch housing and force the switch out (62).
- The on-off switch (62) has no markings for the connections. Check its switch functions and wiring with a digital multimeter (j) and compare it with the diagram (see "Wiring diagrams" on page 29).
- The cable strain relief (37) is under tension. Therefore, hold the cable strain relief with your finger when unlatching it.
5.9 Wiring diagrams

Diagrams for 230 V - EU (first series)

Diagrams for 230 V - EU (valid as of 01.01.2007)

1) Print for button "On/off"  
2) On/Off switch  
3) Heating plate  
4) Thermoblock 230 V  
5) Pump 230 V  
6) Flow meter  
7) Mainboard 230 V  
8) Print for buttons "Coffee small/large"
Diagram for 120 V - UL

1) Print for button "On/off" 5) Pump 120 V
2) On/Off switch 6) Flow meter
3) Heating plate 7) Mainboard 120 V
4) Thermoblock 120 V 8) Print for buttons "Coffee small/large"
Wiring diagram for 100 V - Japan (first series)

1) Print for button "On/off"
2) On/Off switch
3) Heating plate
4) Thermoblock 100 V

Wiring diagram for 100 V - Japan (valid as of 01.01.2007)

5) Pump 100 V
6) Flow meter
7) Mainboard 100 V
8) Print for buttons "Coffee small/large"
6 FUNCTION TESTS

6.1 Measure flow rate

1) Fill the water tank.
2) Push the connector adapter into the capsule bay.

3) Carefully close the handle, until the adapter sits firmly in the capsule cage.
4) Pull out the mount. The adapter locks with the capsule cage.

5) Place a measuring cup under the drain hose of the pressure tester.
6) Switch on the coffee machine.
7) After heating up, press the "Small cup" button.
8) Open the valve until water begins to flow.
9) Close the valve until the pressure gauge indicates 12 bar.

Constantly monitor the pressure gauge and if required readjust the valve. As the temperature increases, so does the pressure, readjust the pressure to 12 bar when required.

10) Carry out measurement for approx. 30 sec.
11) At least 60-120 ml of water must be in the measuring cup.

Notices:
• Should < 60 ml leak out, then the pump is defective or there is a leak in the water system.
• Large deviations in indicated pressure while measuring (± 4 bar) means that the pump is defective.
6.2 Pressure and leakage checks

Check the following parts of the coffee machine for leakages.

- Compact brewing unit
- Hose connections
- Thermoblock
- Pump

---

Dangerous mains voltages and hot parts under pressure inside the coffee machine!
Do not touch any parts under voltage and or hot while checking for leakages! Always wear protective goggles.

---

Preparations

1) Remove rear and side panels (the pump becomes visible, see "General disassembly" on page 16).
2) Push the connector adapter into the capsule bay.
3) Carefully close the handle, until the adapter sits firmly in the capsule cage.
4) Pull out the mount. The adapter locks with the capsule cage.
5) Place the measuring cup under the drain hose of the pressure tester.

6) Fill and insert the water tank.
7) Connect the mains cable.

Test run

8) Switch on the coffee machine.
9) After heating up, press the "Small cup" button.

10) Open the valve and let the water flow for approximately 10 sec. out of the drain hose.
11) Close the valve completely. The pressure stabilizes after increasing briefly between 16 - 19 bar (pressure check).

⚠️ The pressure increases slowly with increasing temperature. Should the pressure exceed 23 bar, switch off the coffee machine and release the pressure by opening the valve.
12) Check all connections under pressure for audible and visible leaks.

⚠️ Do not run the pump for more than 50 sec. with the valve closed.

13) Switch off the coffee machine.
14) Open the valve and let water flow out of the pressure tester.
6.3 Measuring the coffee temperature

1) Press the on-off button.
2) Place a measuring cup under the coffee outlet.

3) After the heating up period, press the "Small cup" button and preheat the coffee outlet for approximately 10 sec. with hot water.

4) Insert capsule (Cosi is best suited).

5) Press the "Small cup" button.
6) Wait until the measuring cup contains 20 ml of coffee.
7) Then measure the coffee temperature approx. 5-10 mm under the coffee outlet.

The coffee temperature should be 86 °C ± 3 °C (187 °F ± 5.4 °F).
7 MAINTENANCE

7.1 Descaling

Only use Nespresso decalcifiers - never use vinegar!
Decalcifiers are aggressive to surfaces.

1) Switch off the coffee machine.
2) Eject capsule. Insert the filter from the
descaling set into the capsule bay and
close the handle.
3) Remove the drip tray and capsule
container and empty them.

4) Reinsert the drip tray and place a
beaker on the cup support.

Observe the safety instructions on
the package of the decalcifier.
5) Fill the watert tank with 0,1 l decalcifier
and 0,5 l water and insert it into the
coffee machine.
6) Switch on the coffee machine.
7) Press the "Small cup" and "Large cup"
buttons simultaneously for at least
3 sec. The descaling mode is started
(the buttons blink fast).
8) Press the "Large cup" button, the
pump starts.
9) Let the entire descaling solution run
through the system.
10) Pour the descaling solution back into the water tank.
11) Descale again: press the "Large cup" button and let the descaling solution run through the system again.

12) Empty the beaker.
13) Remove the filter from the capsule bay.

14) Thoroughly rinse the water tank and fill it with fresh water.
15) Place the beaker on the cup support.
16) Press the "Large cup" button - the pump starts.
   Let the entire solution in the tank run through the system.
17) Switch off the coffee machine.
   Descaling is completed.

18) Clean the coffee machine.
7.2 Daily maintenance, cleaning

1) Eject capsule.
2) Empty the capsule container.
3) Empty the water tank and the drip tray.
4) Clean the water tank and the drip tray.
5) Fill the tank with fresh water.
6) Reassemble the coffee machine.
7) Press the "On/Off" button.
8) Press the "Large cup" button and rinse the coffee outlet for 10 sec.
9) Clean the coffee machine.
8 SPARE PARTS
<table>
<thead>
<tr>
<th>Pos.</th>
<th>EFR no.</th>
<th>Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>44291</td>
<td>Raised head screw, KST/PT 4x20, Torx-20</td>
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<tr>
<td>2</td>
<td>43227</td>
<td>Thermoblock-bracket</td>
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<tr>
<td>3</td>
<td>19799</td>
<td>Raised head screw, 4x8, hexagon socket including spring ring.</td>
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<tr>
<td>4</td>
<td>21542</td>
<td>Safety-clip 5x10x21 mm</td>
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<td>37341</td>
<td>Thermoblock TB2003/L 230V/1200W</td>
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<td>43229</td>
<td>Damping element for thermoblock</td>
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<tr>
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<td>43232</td>
<td>Pump holder, black</td>
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<td>Holding clip to position the pump</td>
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<tr>
<td>11</td>
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<td>Fluid-system support 472</td>
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<tr>
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<td>43299</td>
<td>Light guide to the capsule container</td>
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<td>43258</td>
<td>Support for the compact brewing unit (CBU)</td>
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<td>14</td>
<td>43298</td>
<td>Torsion spring for the stop lever.</td>
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<td>Stop lever</td>
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<td>43296</td>
<td>Elastic buffers for cup cover</td>
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<td>19</td>
<td>43771</td>
<td>&quot;On/Off&quot; button</td>
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<td>Button illumination &quot;On/Off&quot;</td>
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<td>Water tank incl. valve</td>
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<td>43246</td>
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<td>25</td>
<td>44850</td>
<td>Coffee outlet</td>
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<td>43254</td>
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<td>Elastic buffers for cup support</td>
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<td>47503</td>
<td>Front cover 472 carbon, America Cup</td>
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<td>Front cover 472 weiss, print Nespresso</td>
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<td>Front cover 472 rot, print Nespresso</td>
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<td>Front cover 472 alu titan, print Nespresso</td>
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<tr>
<td></td>
<td>46865</td>
<td>Front cover 472 white, print Krups</td>
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### SPARE PARTS

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<td>Front cover 472 weiss, print Turmix</td>
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<td>Front cover red, print Koenig</td>
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<td>43307</td>
<td>Button illumination &quot;Small/ large cup&quot;</td>
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<td>Upper cover</td>
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<td>Compact brewing unit without closing handle (CBU, Birdy)</td>
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