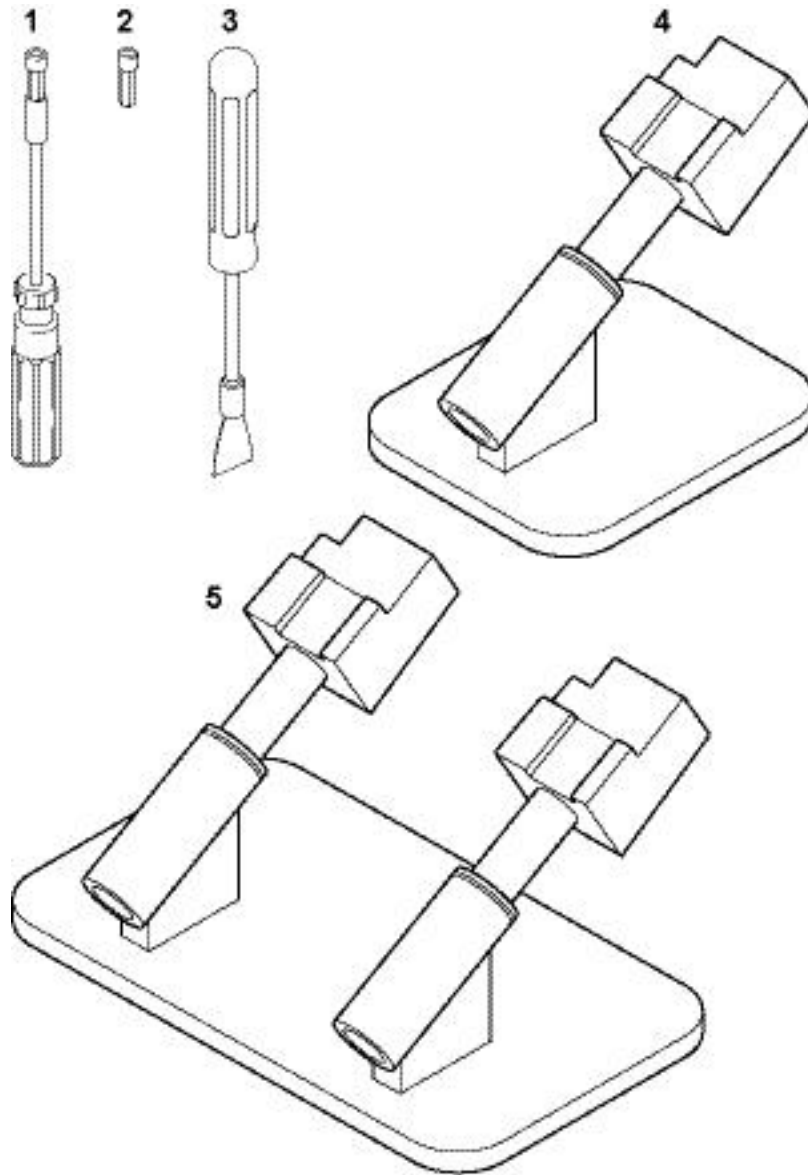





8.3 Tools and accessories

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



- | | |
|---|---|
| 1) Special screwdriver with short oval bit (EFR no. 0004872) | 6) TORX screwdriver (TX10, TX15) |
| 2) Short oval bit only (EFR no. 0004878) | 7) Screwdriver with approx. 4 mm tool tip |
| 3) Disassembly tool (for side panels etc.) (EFR no. 0060611) | 8) Hexagonal wrench SW 4 |
| 4) Repairing/service holder device for models Citiz and Citiz & milk (available from Nespresso) | 9) Flat wrench SW 14, 10 mm AF |
| 5) Repairing/service holder device for model Citiz & Co (available from Nespresso) | 10) Torque wrench |
| | 11) Long-nosed pliers |
| | 12) Flat pliers |
| | 13) Beaker and towel to catch and wipe away leaking water |

 A dynamometric screwdriver with suitable bits is recommended.

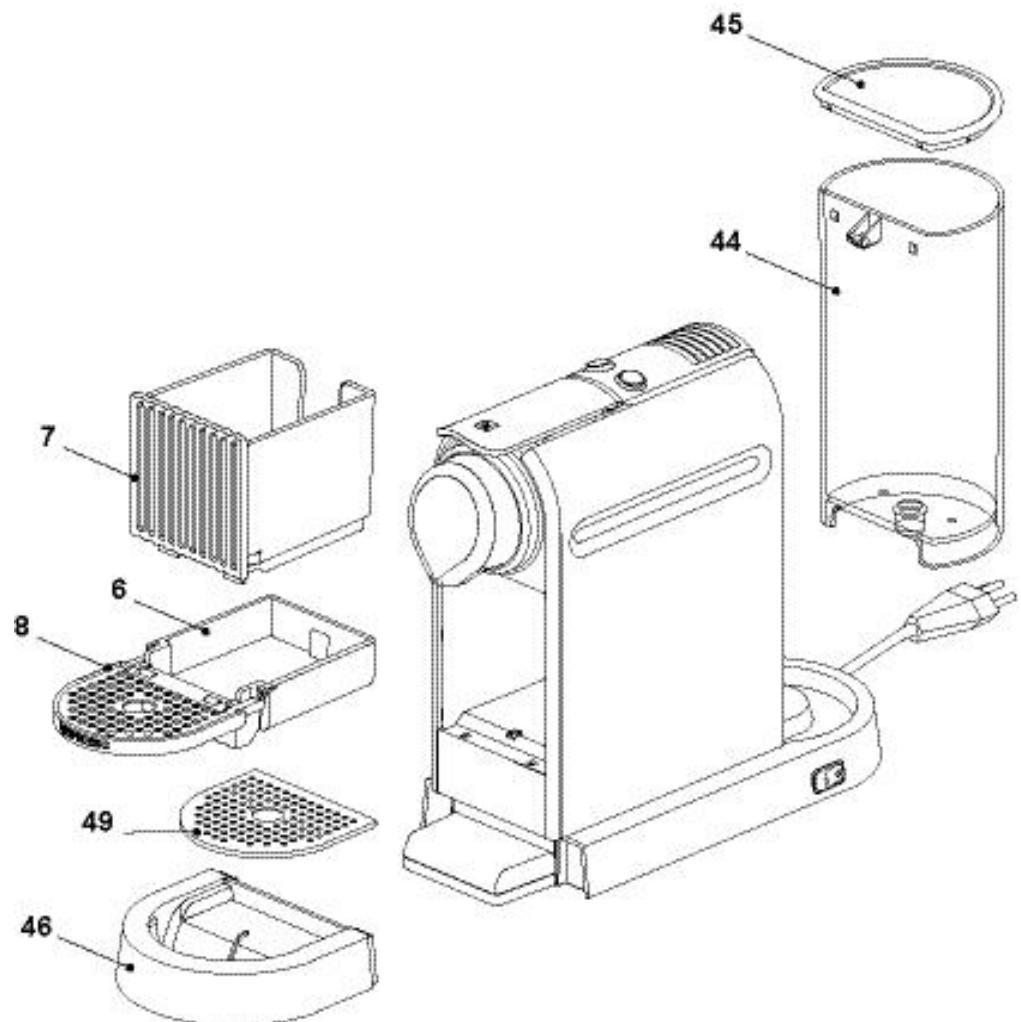


8.4 Platform disassembly - model Citiz

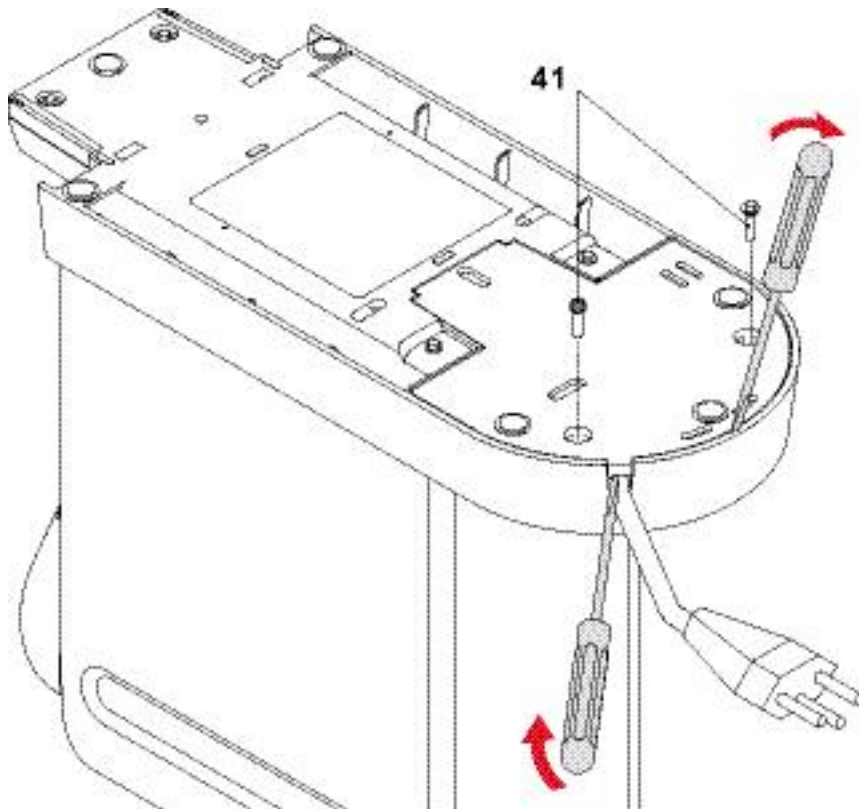
8.4.1 General disassembly

This general disassembly

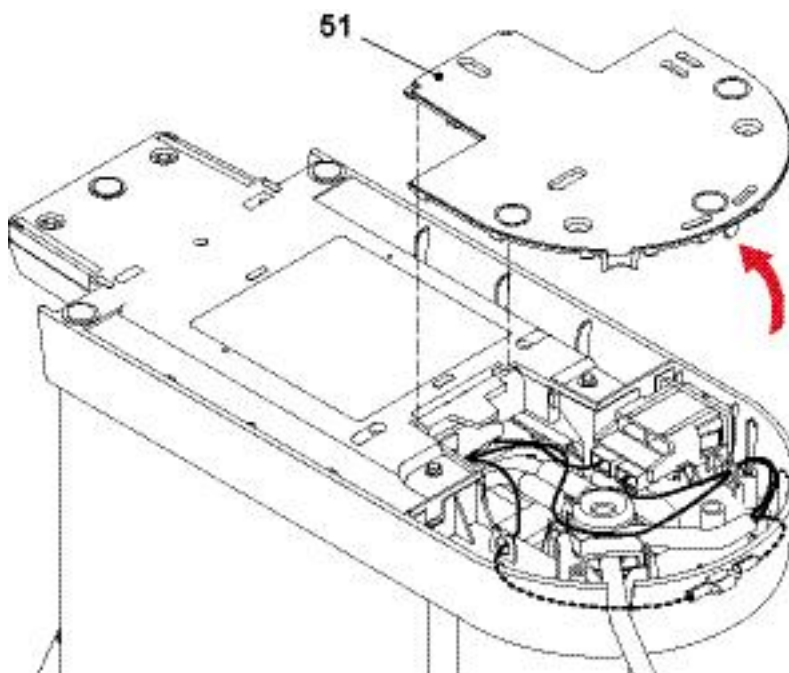
- is necessary before the removal/disassembly of a core unit is possible,
- gives access to the components and wiring of the platform.




- Take away all removable parts from platform and core unit
 - cup support (8) with waste water container (6)
 - capsule container (7)
 - drip tray (46) with drip grid (49)
 - water tank (44) with cover (45).



- Loosen 2 screws (41, oval shaped head) at the bottom side of platform.
- Use screwdriver to release latches. Start by inserting the screwdriver in the opening for the power cord.

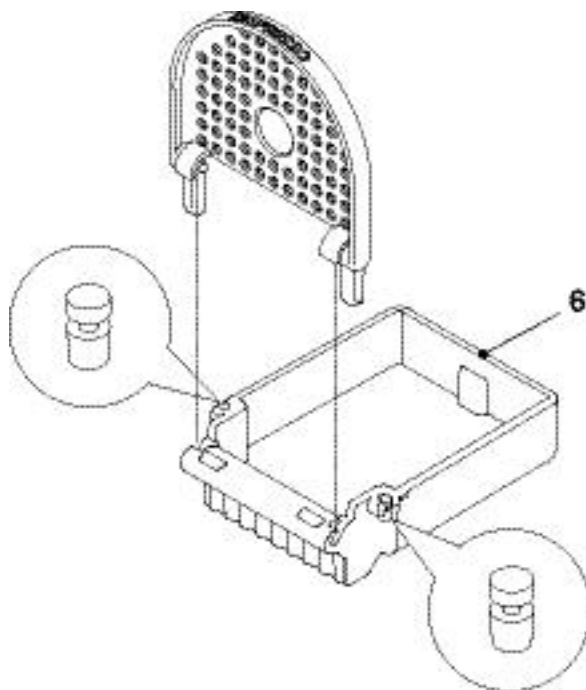


- Remove bottom cover (51) by swinging it up like shown.

 The bottom cover (51) is inserted into the platform with both edges of its small end. Only remove bottom cover by swinging up the round end.



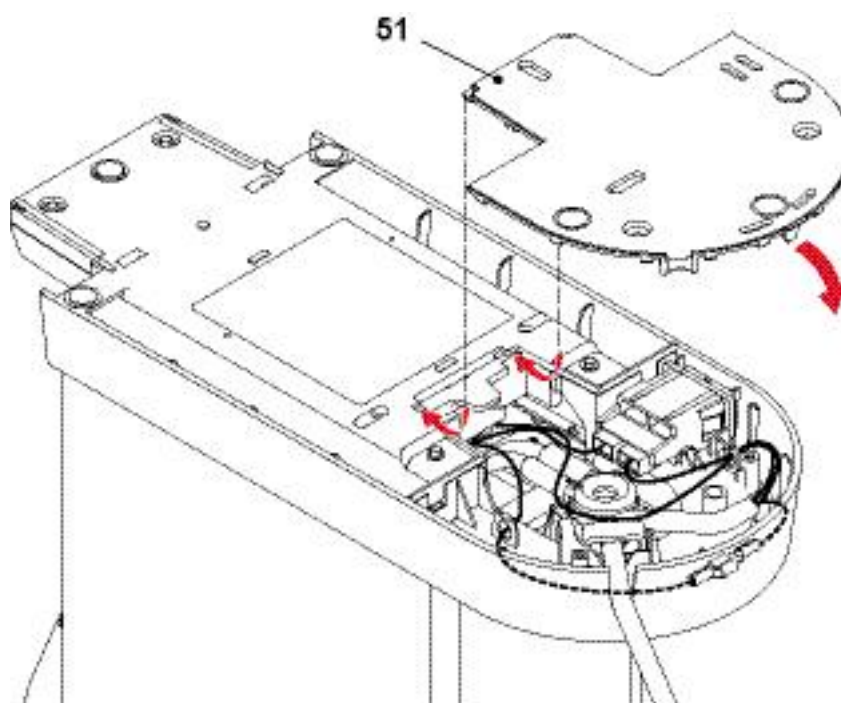
Assembly checkpoints



- Check if 2 rubber stoppers are mounted on waste water container (6).



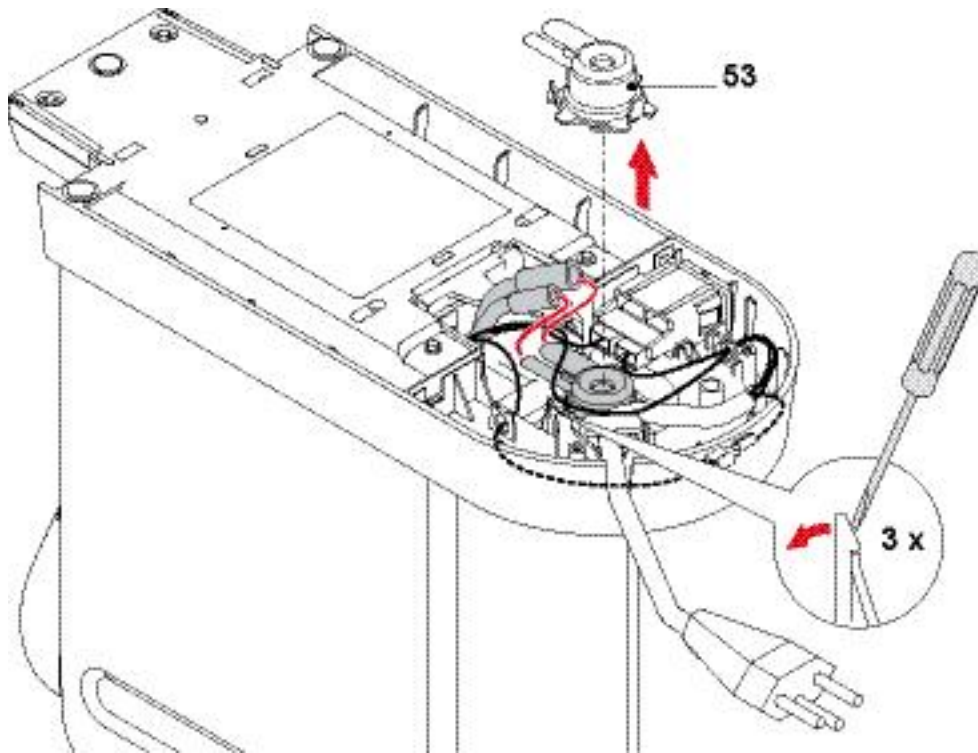
Take care not to jam any wires at the screw connections.



- Insert bottom cover (51) with small end into platform at first. Then fold it down and close latches.

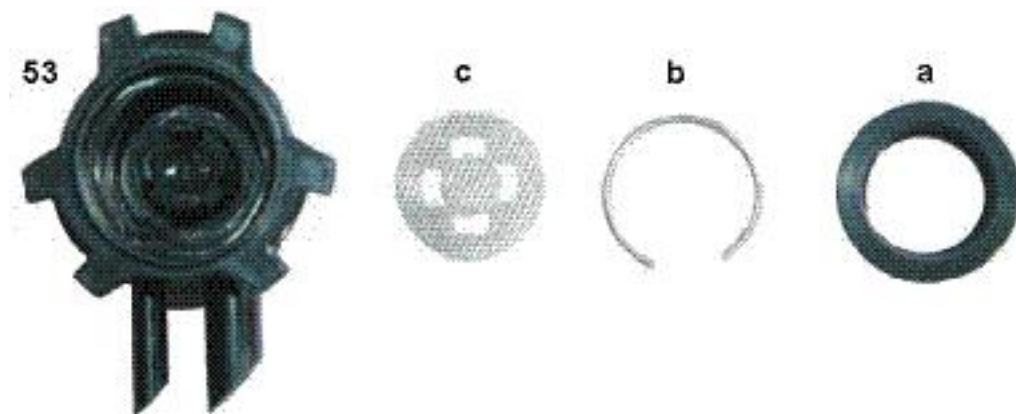


8.4.2 Replacing water tank connector



i The water tank connector (53) is replaced together with gasket, clamping ring and metal sieve.

- Pull off both hoses from water tank connector (53).
- Release the 3 latches around the water tank connector one after the other by pressing the top of their hooks outwards with a screwdriver (see detail) and lifting the water tank connector at the same time.



- Remove gasket (a) from water tank connector (53).
- With the help of a pair of tweezers, remove clamping ring (b) and metal sieve (c).
- Clean or replace parts.

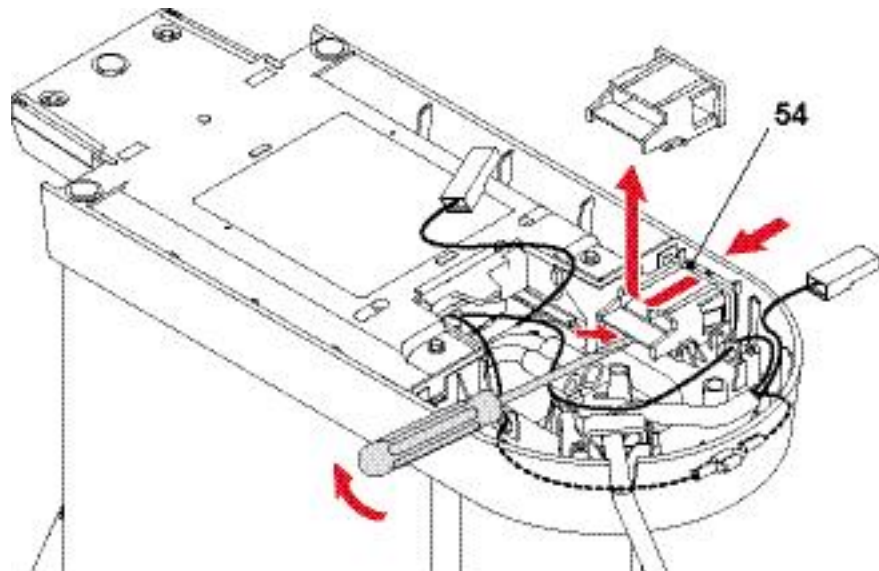



Assembly checkpoints




- Check that gasket is inserted in water tank connector (53) correctly.
- During assembly of the water tank connector on the platform, each of its 3 latches has to engage with an audible click.
- Mind the different diameters of hoses for the water tank connector.

8.4.3 Replacing mains switch



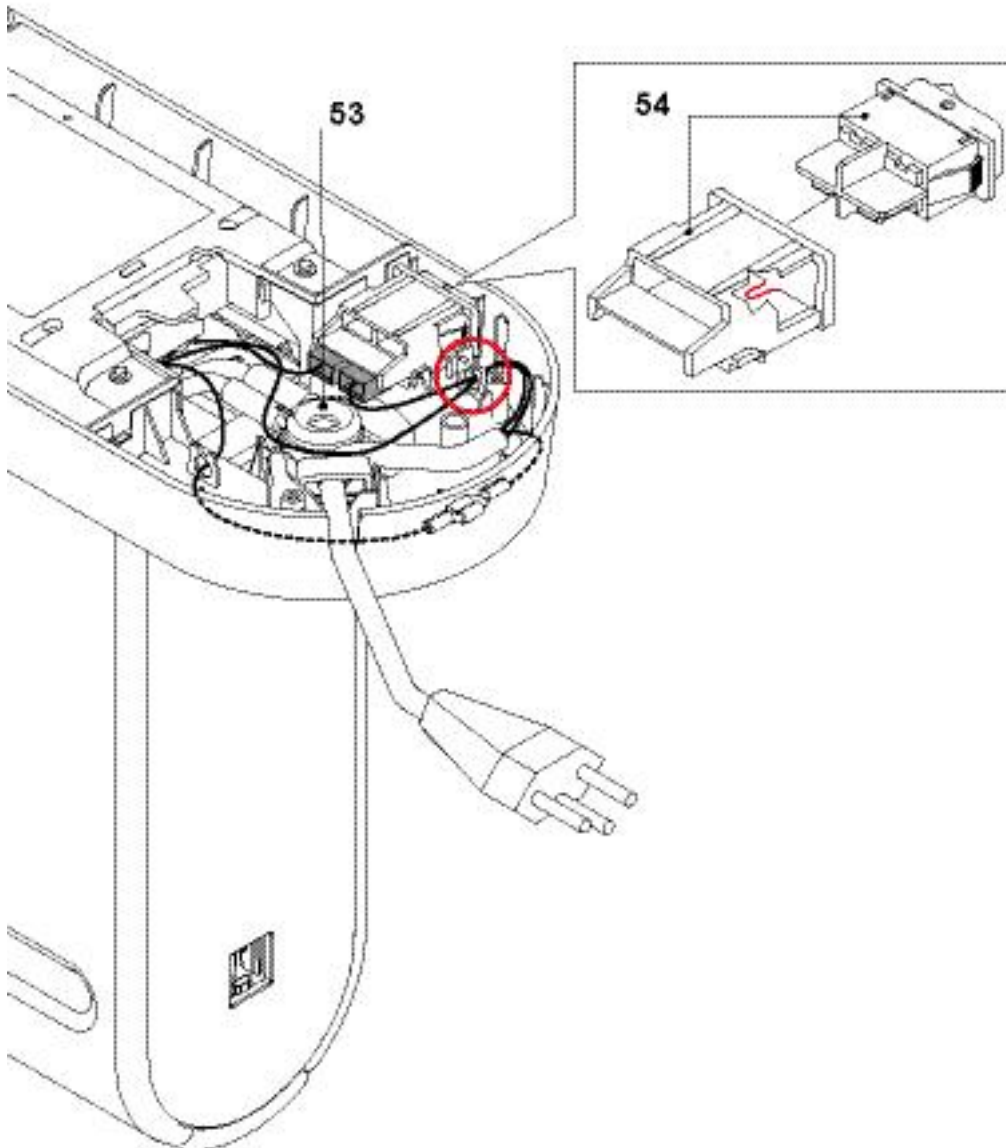
 The hoses can remain on the water tank connector.

 Use a pair of flat pliers to pull off insulating sleeve with receptacle.

- Remove water tank connector from platform first (see page 59).
- Remove both insulated faston receptacles from mains switch (54).
- Press blade of screwdriver between holder of mains switch and platform carefully. Lift holder with screwdriver slightly. Then press holder with mains switch (54) inwards until it can be removed.



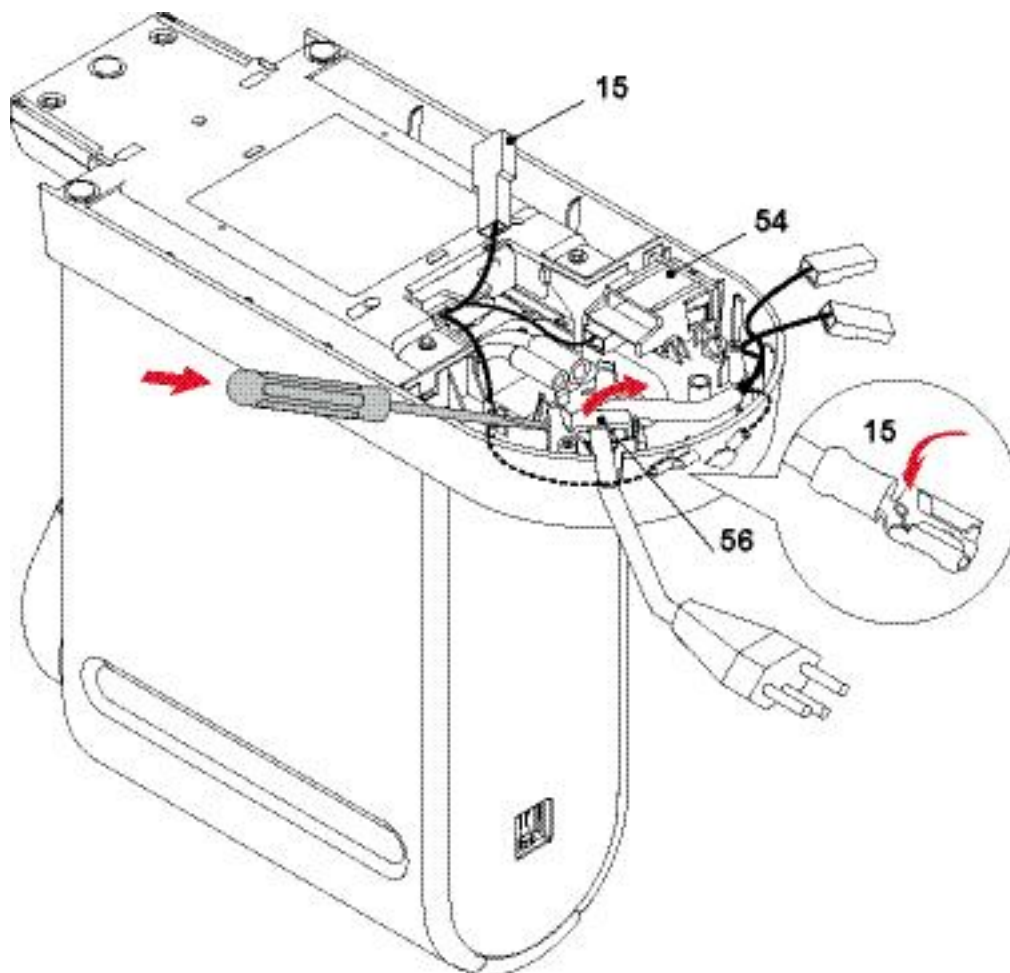
Assembly checkpoints





- Use marked cable guide to lay wires.
- The mains switch holder (54) has a notch: correct fitting position is with mains switch connections next to the platform (see detail).
- During assembly of the water tank connector (53) on the platform, each of its 3 latches has to engage with an audible click.





8.4.4 Replacing power cord



 The hoses can remain on the water tank connector.

 Use a pair of flat pliers to pull off insulating sleeve with receptacle.

 The flat receptacle on the ground wire has a special connector latching (see detail). Press down lever at first, then pull off receptacle.

 The cable bracket is under tension. Therefore, hold the cable bracket with your finger when unlatching it.

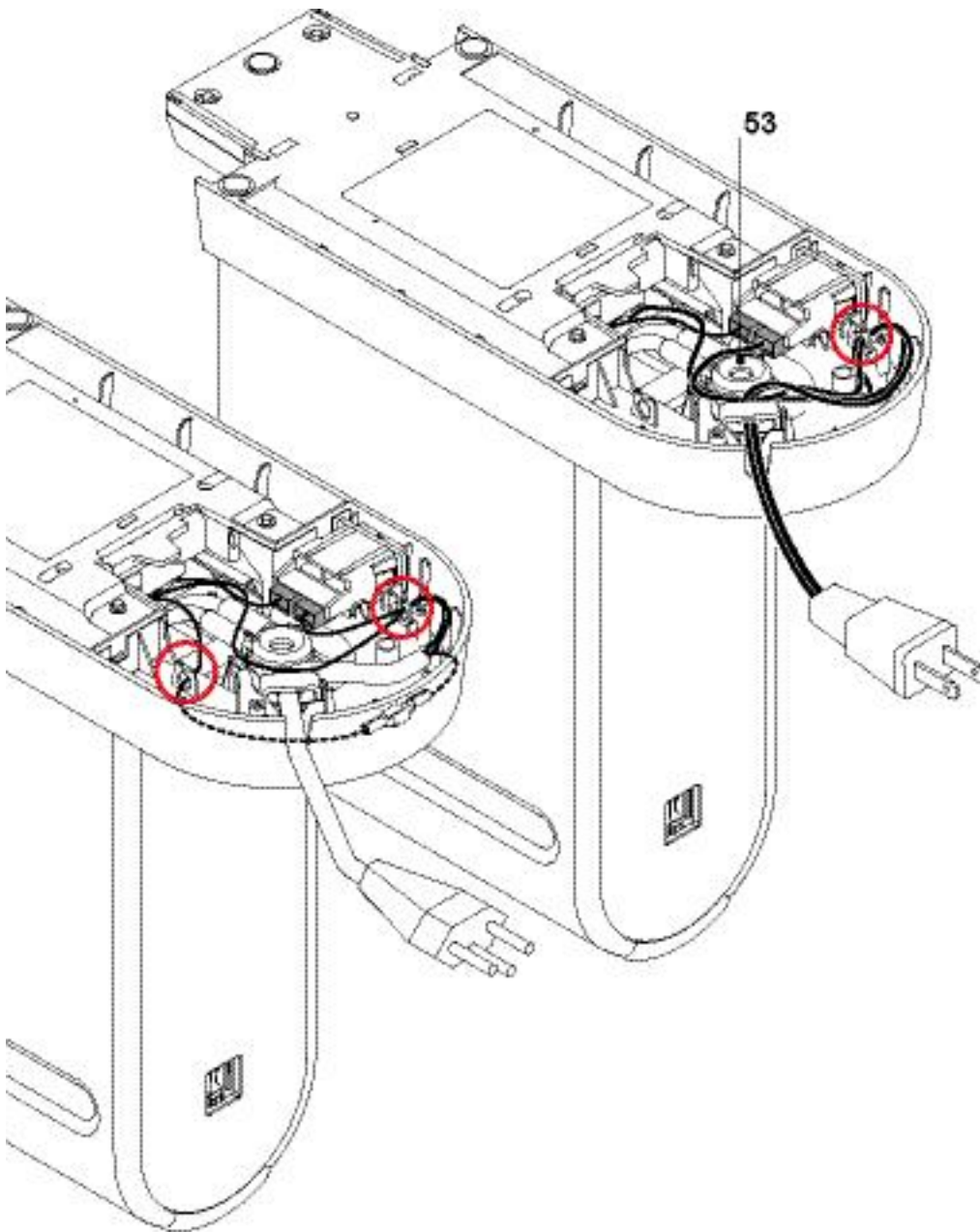
- Remove water tank connector from platform first (see page 59).
- Remove insulated faston receptacle of phase wire from mains switch (54).
- Disconnect adapter plug of neutral wire (15).
- If present, disconnect ground wire (15, see detail).
- Unlatch cable bracket (56) with screwdriver.



Assembly checkpoints

Wiring with three-core power cord:

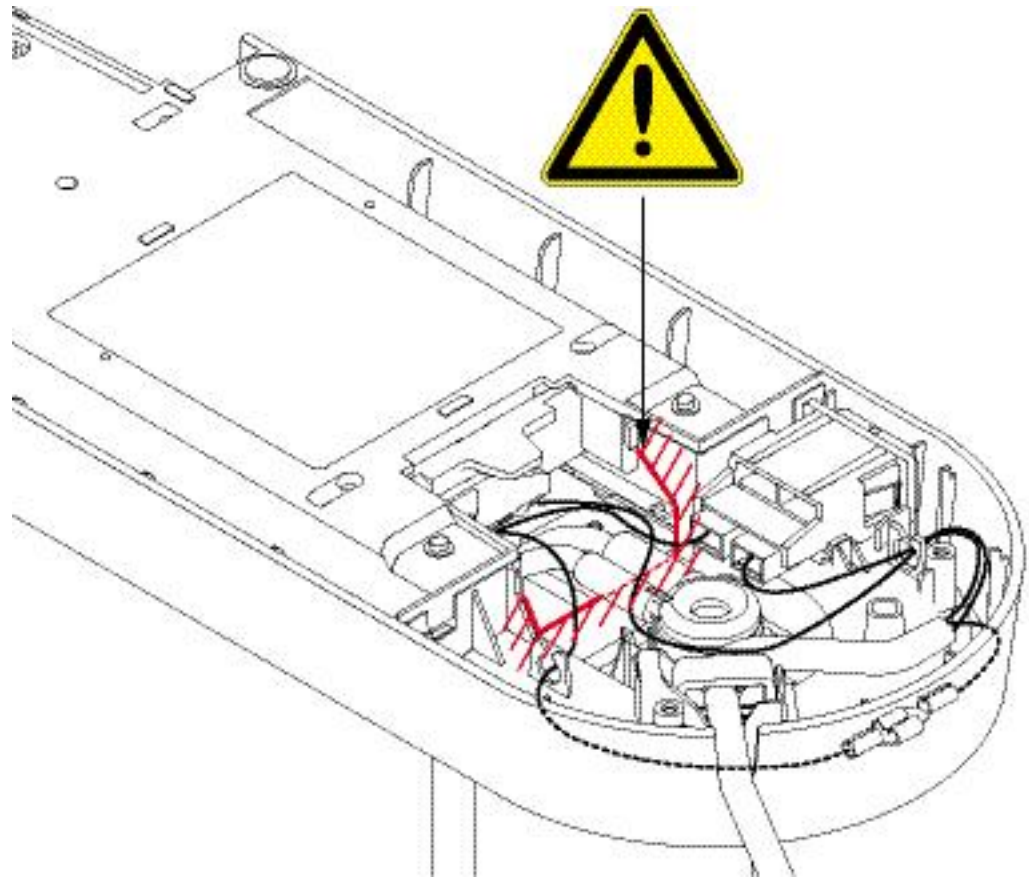
Wiring with two-core power cord:



- Use marked cable guides to lay wires.
- Check wiring (see "Wiring diagrams - model Citiz" on page 118 and following).
- During assembly of the water tank connector (53) on the platform, each of its 3 latches has to engage with an audible click.

8.4.5 Removing core unit

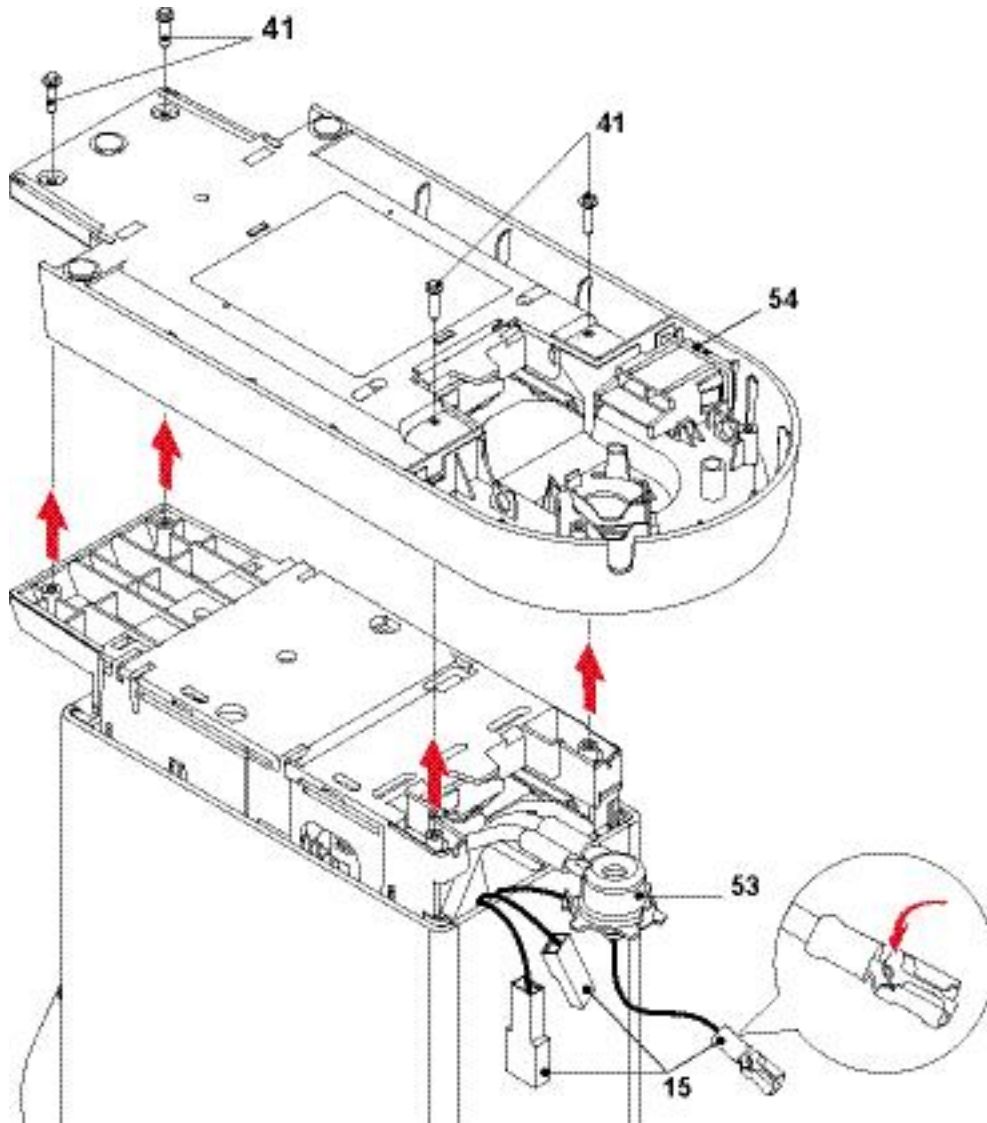
Pay attention to the following safety advice before removing the core unit.



Danger of insulation damages (cuts) on wires between core unit and platform (phase and neutral wire, ground wire if existing).

The sharp casing edges of the platform (marked red in above illustration) can damage the insulation of wires.

Do not stretch and reciprocate wires over sharp edges while removing the core unit.



- Loosen 4 screws (41, oval shaped head) at the bottom side of platform.

For complete removal of the core unit proceed as follows:

- Remove water tank connector (53) from platform (see page 59).
- Remove insulated faston receptacle of phase wire (15) from mains switch (54).
- Disconnect adapter plug (15) of neutral wire.
- If present, disconnect ground wire (15, part of thermoblock assembly).

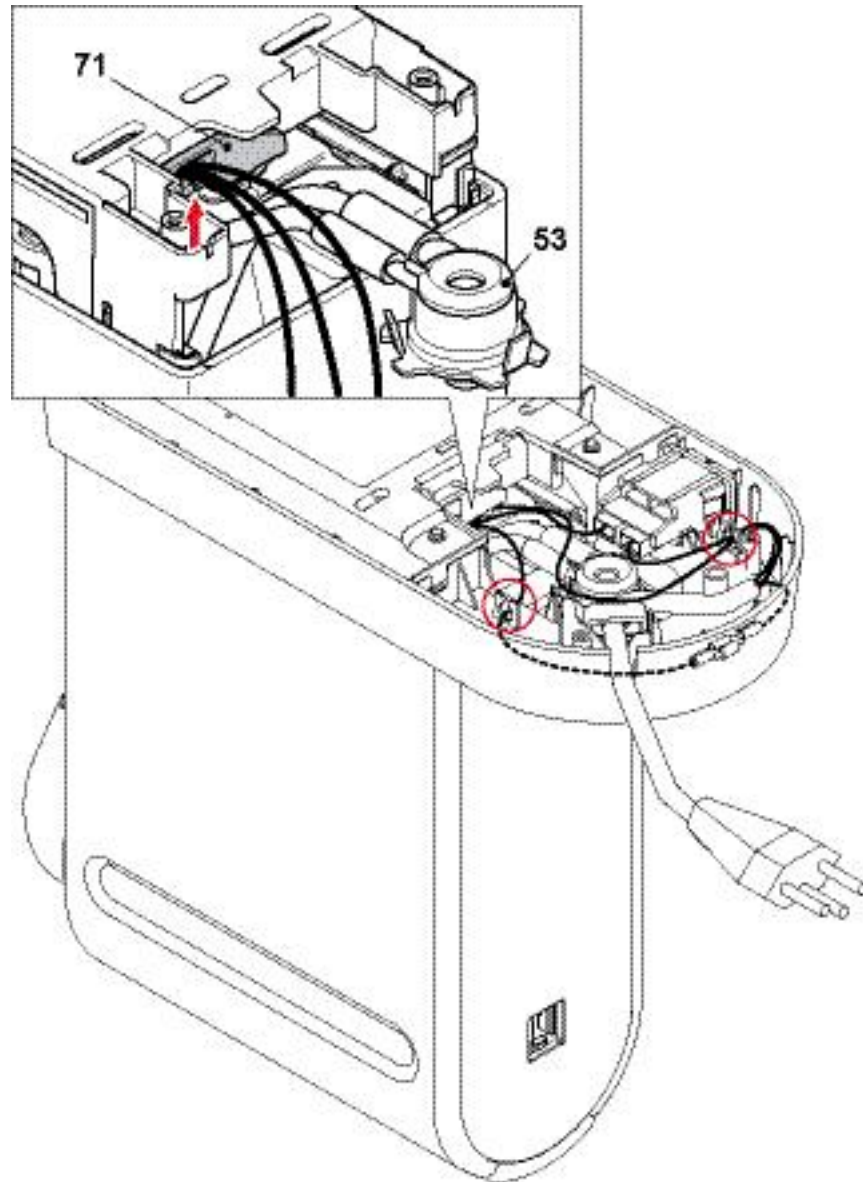
i After this repair step the core unit can be pulled out of the platform slightly (with still connected hoses and wires). Now the covers of the core unit can be removed.

The hoses can remain on the water tank connector.

Use a pair of flat pliers to pull off insulating sleeve with receptacle.

The flat receptacle on the ground wire has a special connector latching (see detail). Press down lever at first, then pull off receptacle.

Assembly checkpoints



- All covers are assembled on the core unit.
- Check that wiring between core unit and platform is led through cable fixation (71).
- Use marked cable guides to lay wires in platform (refer to "Replacing power cord" on page 62 and following).
- Check wiring (see "Wiring diagrams - model Citiz" on page 118 and following).
- During assembly of the water tank connector (53) on the platform, each of its 3 latches has to engage with an audible click.

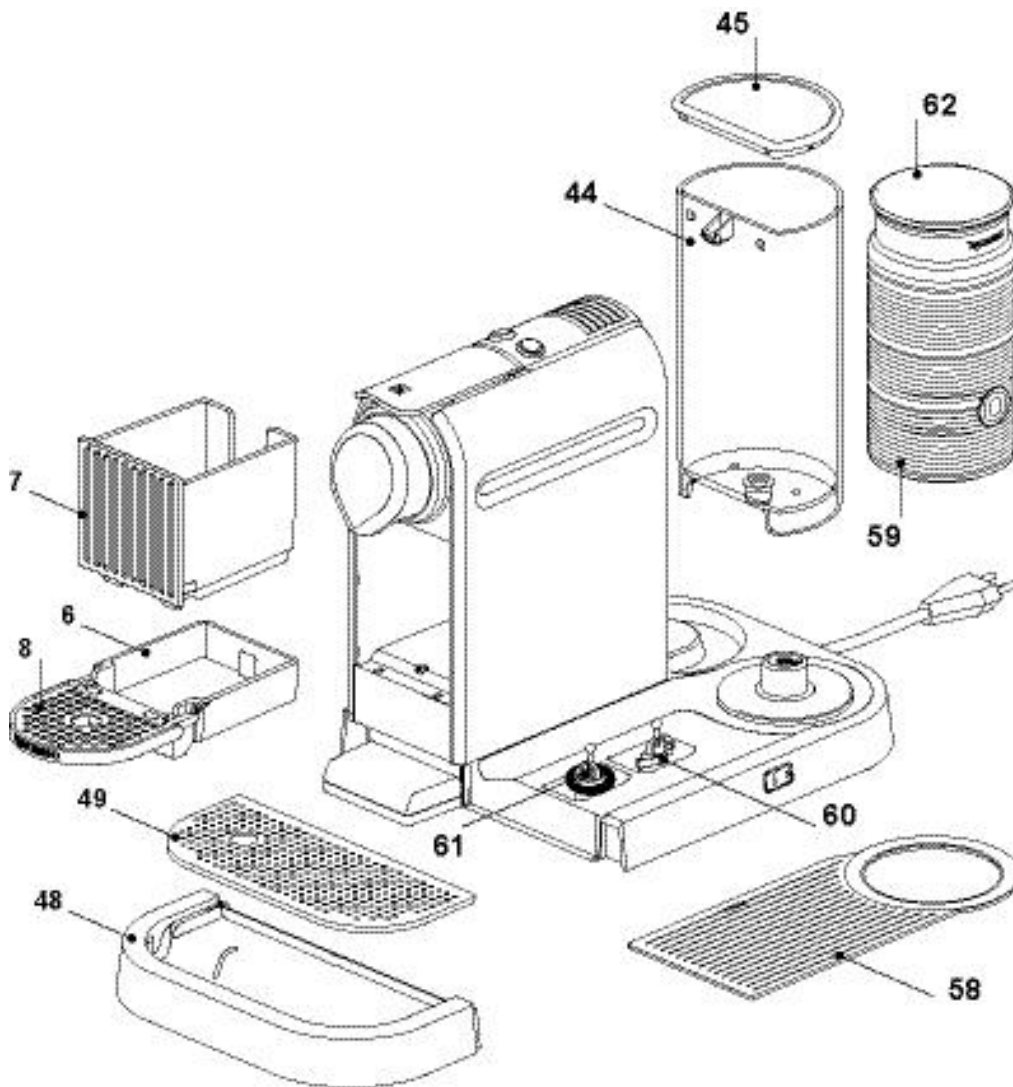


8.5 Platform disassembly - model Citiz & milk

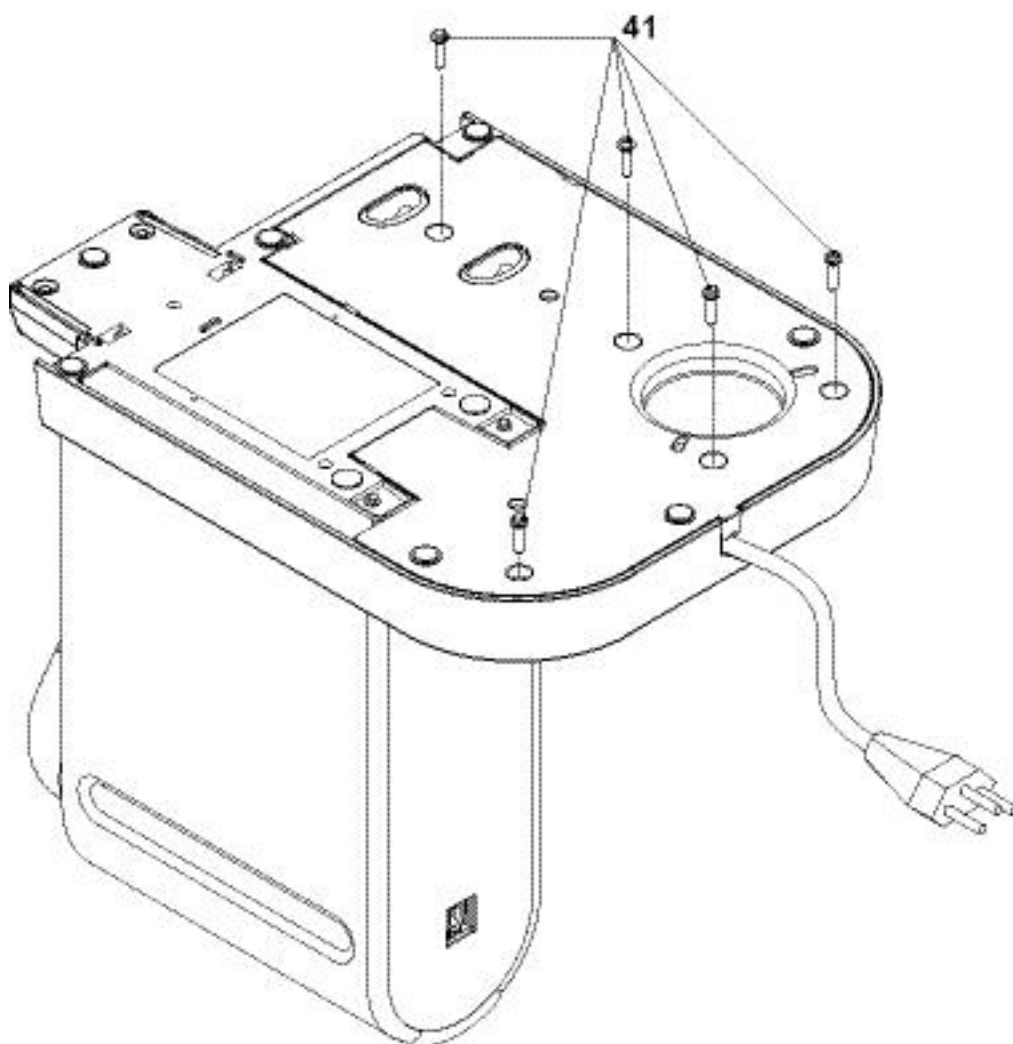
8.5.1 General disassembly

This general disassembly

- is necessary before the removal/disassembly of a core unit is possible,
- gives access to the components and wiring of the platform.




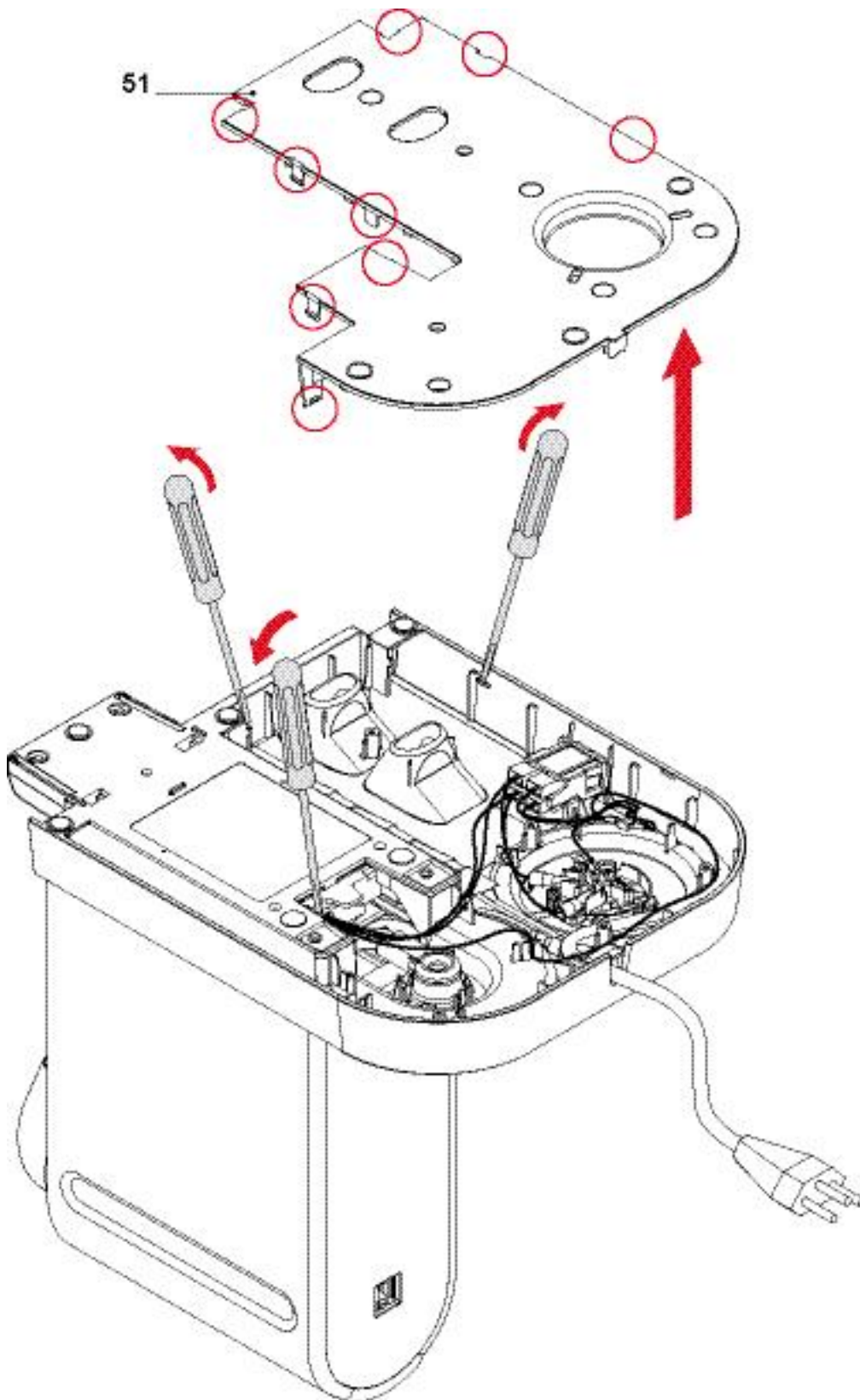
- Take away all removable parts from platform and core unit
 - cup support (8) with waste water container (6)
 - capsule container (7)
 - drip tray (48) with drip grid (49)
 - water tank (44) with cover (45)
 - milk frother (59) with lid and seal (62)
 - cup storage (58)
 - whisk for hot milk (60)
 - spring whisk for milk foam (61).



- At the bottom side of platform loosen 4 screws (41, oval shaped head).



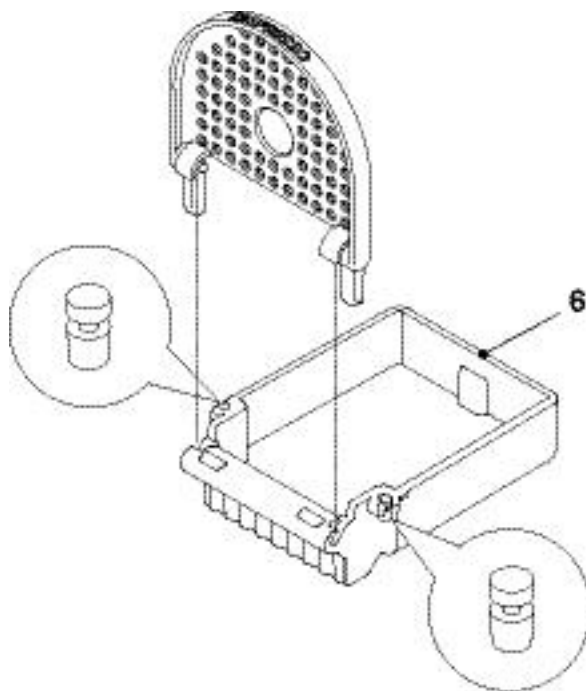
 Latches on the bottom cover (51) are red circled for easy identification.



- Insert screwdriver into recesses and swivel screwdriver to remove bottom cover (51).



Assembly checkpoints



- Check if 2 rubber stoppers are mounted on waste water container (6).

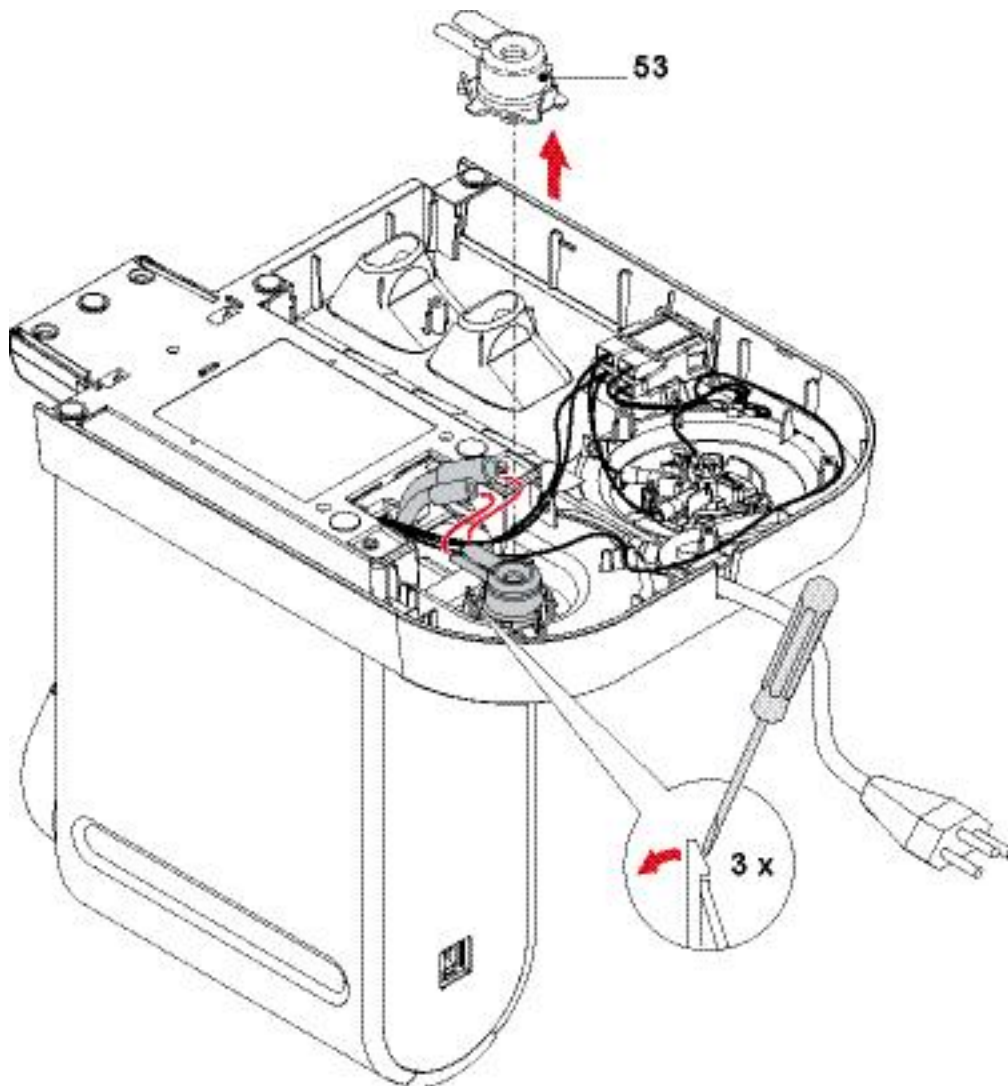


Risk of damage!

While assembling the protective cover at the platform, take care not to jam any wires at the screw connections.

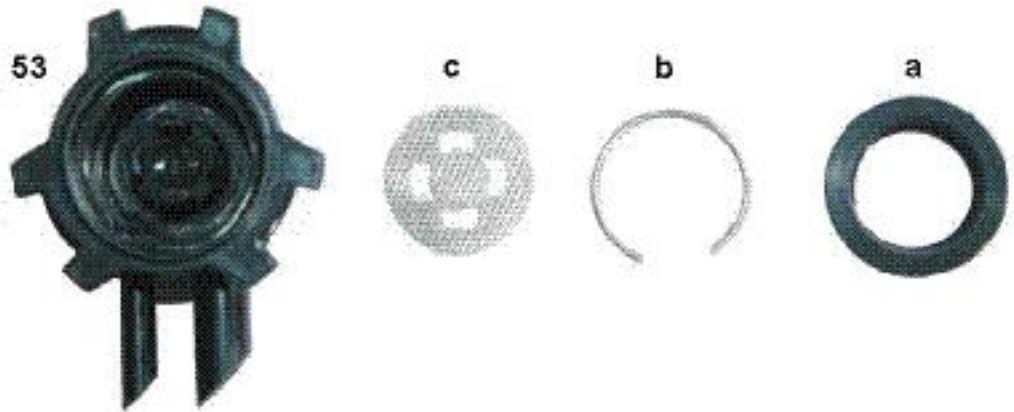


8.5.2 Replacing water tank connector



i The water tank connector (53) is replaced together with gasket, clamping ring and metal sieve.

- Pull off both hoses from water tank connector (53).
- Release the 3 latches around the water tank connector one after the other by pressing the top of their hooks outwards with a screwdriver (see detail) and lifting the water tank connector at the same time.



1. Remove gasket (a) from water tank connector (53).
2. With the help of a pair of tweezers, remove clamping ring (b) and metal sieve (c).
3. Clean or replace parts.

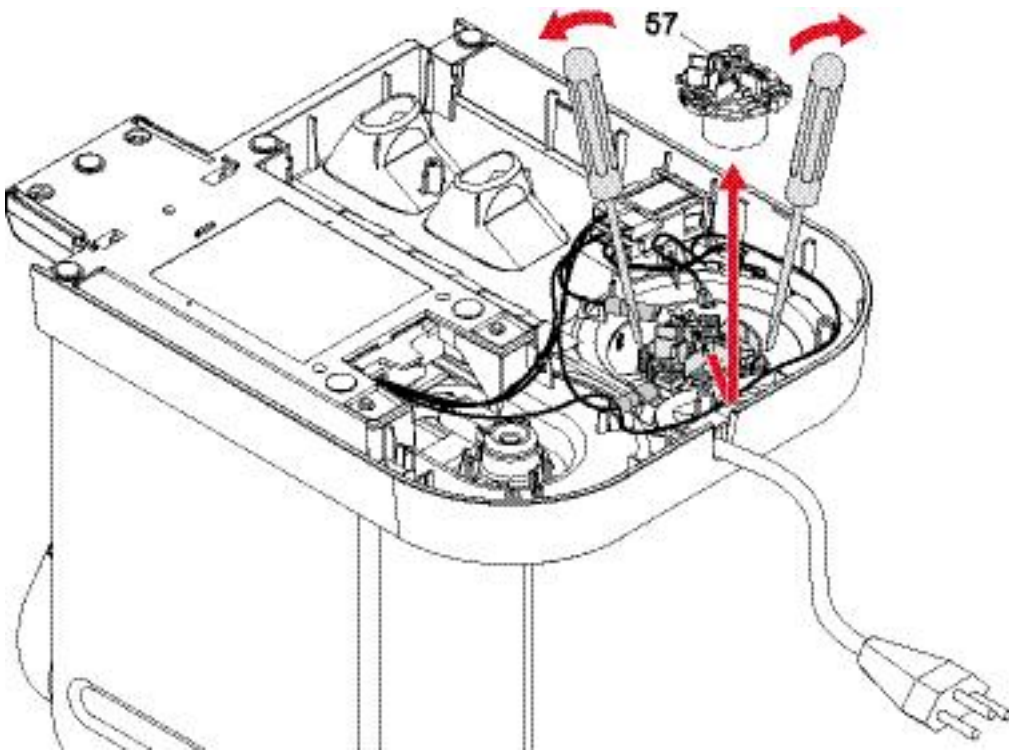
Assembly checkpoints



- Check that gasket is inserted in water tank connector (53) correctly.
- During assembly of the water tank connector on the platform, each of its 3 latches has to engage with an audible click.
- Mind the different diameters of hoses for the water tank connector.

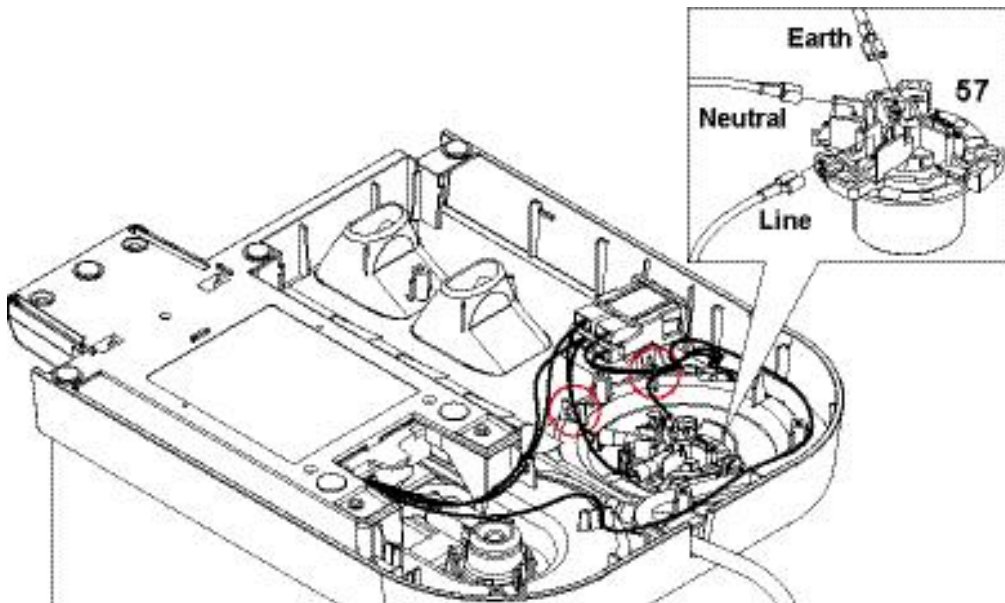


8.5.3 Replacing milk frother connector



- Remove 3 small fasten receptacles from milk frother connector (57).
- Remove milk frother connector (57) by releasing 2 latches and swivel connector out from under the hook.

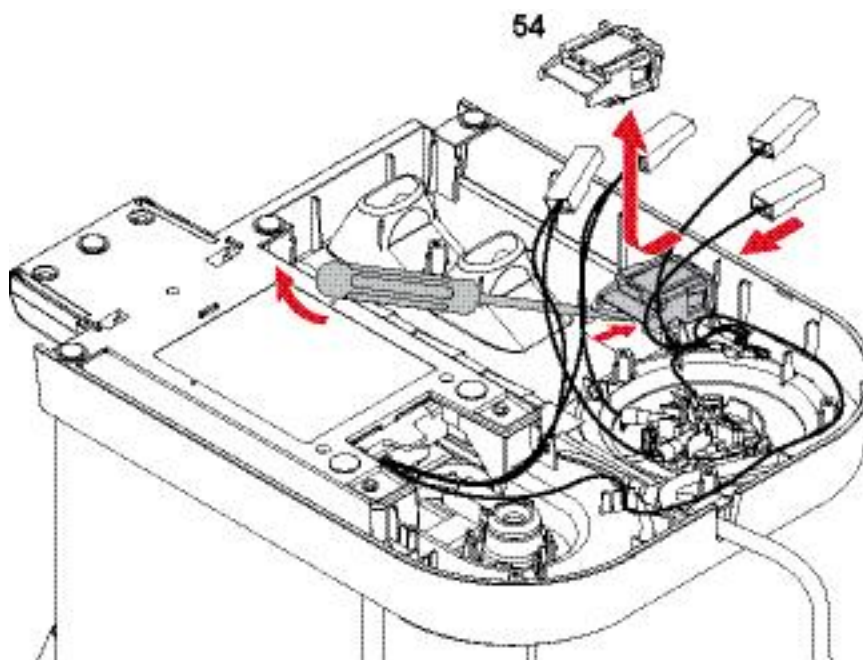
Assembly checkpoints




- Use marked cable guides to lay wires.
- Check wiring of milk frother connector (57), see detail.



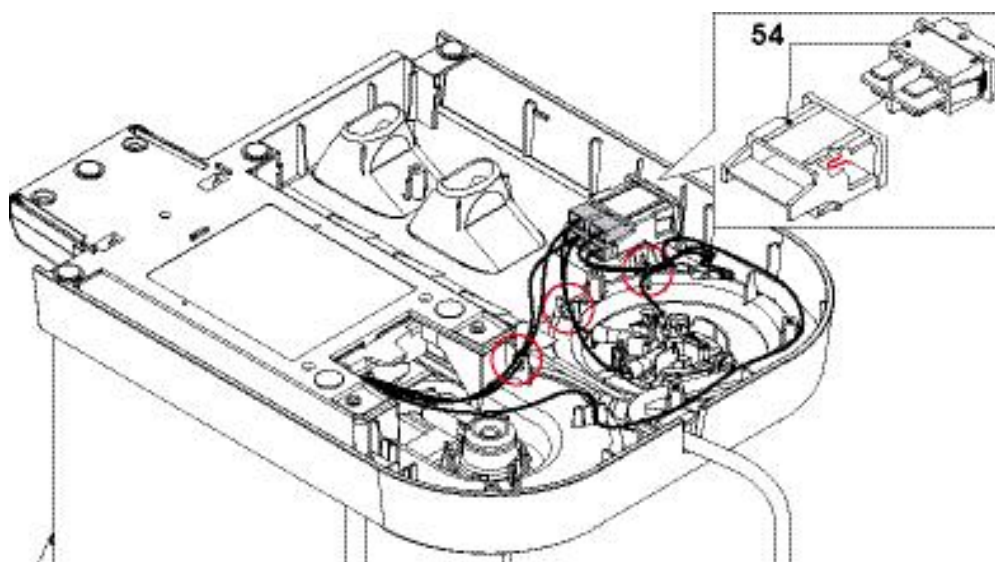
8.5.4 Replacing mains switch



 Use a pair of flat pliers to pull off insulating sleeves with receptacles.

- Remove 4 insulated faston receptacles from mains switch (54).
- Press blade of screwdriver between holder of mains switch and platform carefully. Lift holder with screwdriver slightly. Then press holder with mains switch (54) inwards till it can be removed.

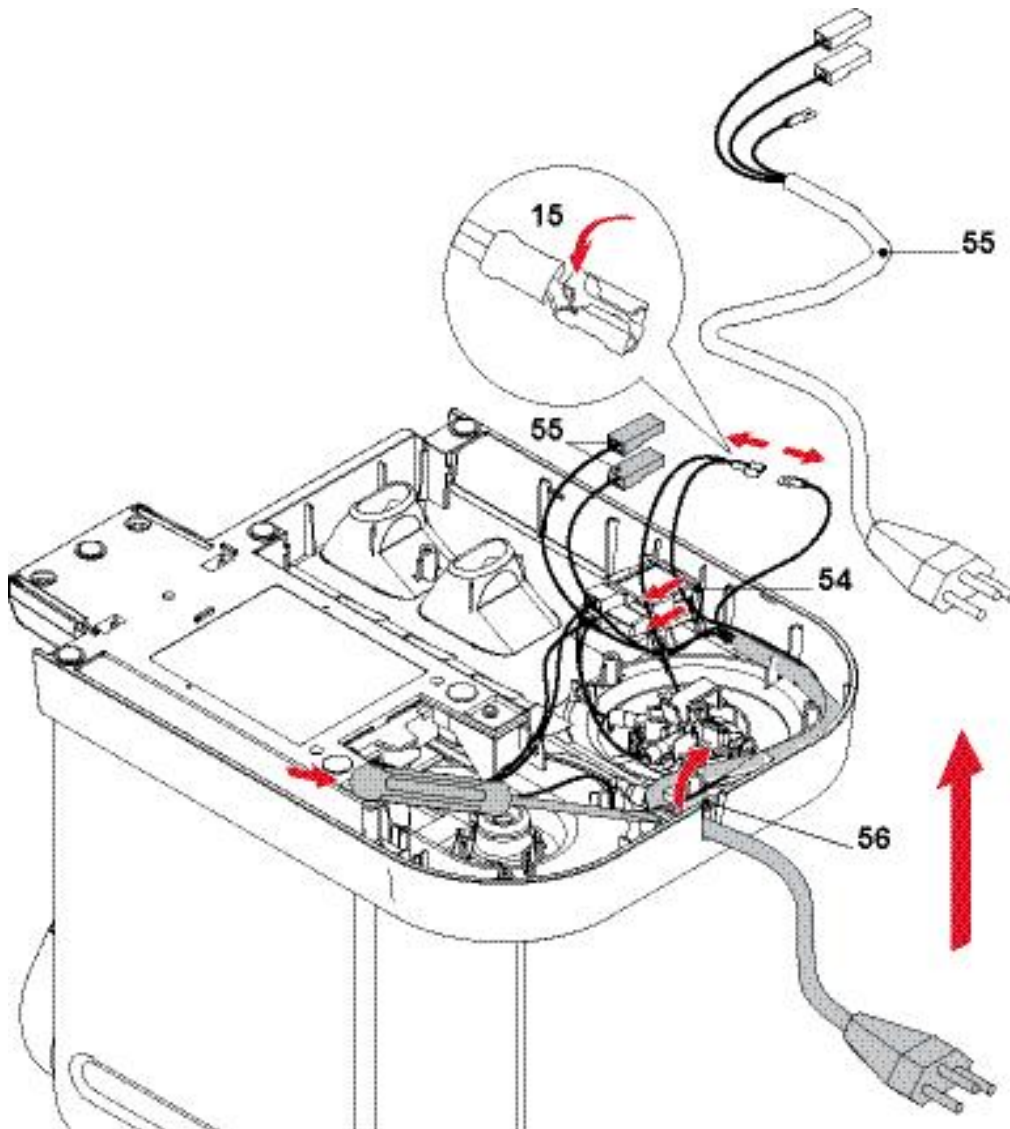
Assembly checkpoints




- The mains switch holder (54) has a notch (see detail) to ensure a correct fitting position.
- Use marked cable guides to lay wires.
- Check wiring of mains switch (see "Wiring diagrams - model Citiz & milk, EF 485/486" on page 124 and following).





8.5.5 Replacing power cord



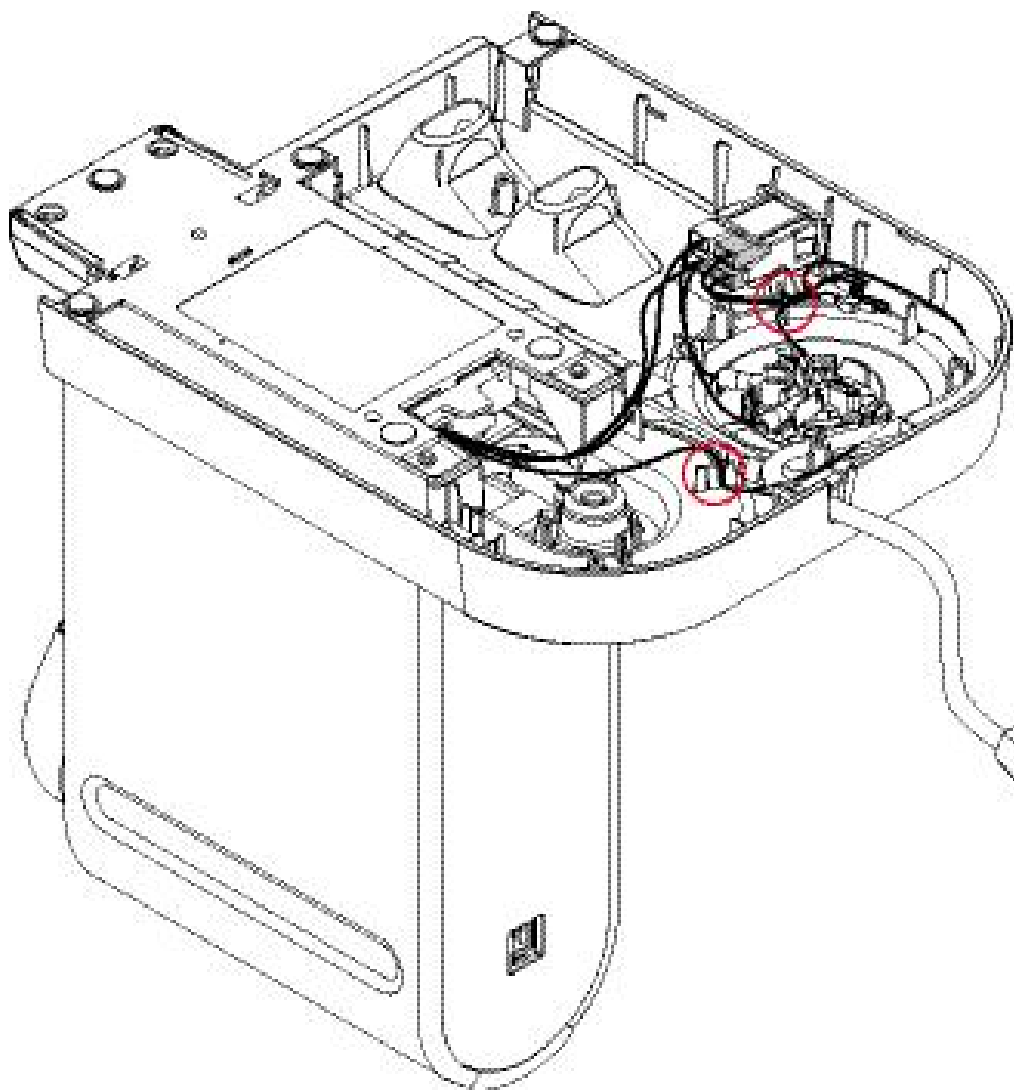
- Remove 2 insulated faston receptacles (55) from mains switch (54).
- If present, disconnect ground wire (15, part of thermoblock assembly).
- Unlatch cable bracket (56) with screwdriver.

 Use a pair of flat pliers to pull off insulating sleeve with receptacle.

 The counterpart, a flat receptacle, has a special connector latching (see detail). Press down lever at first, then pull off receptacle.

 The cable bracket is under tension. Therefore, hold the cable bracket with your finger when unlatching it.

Assembly checkpoints

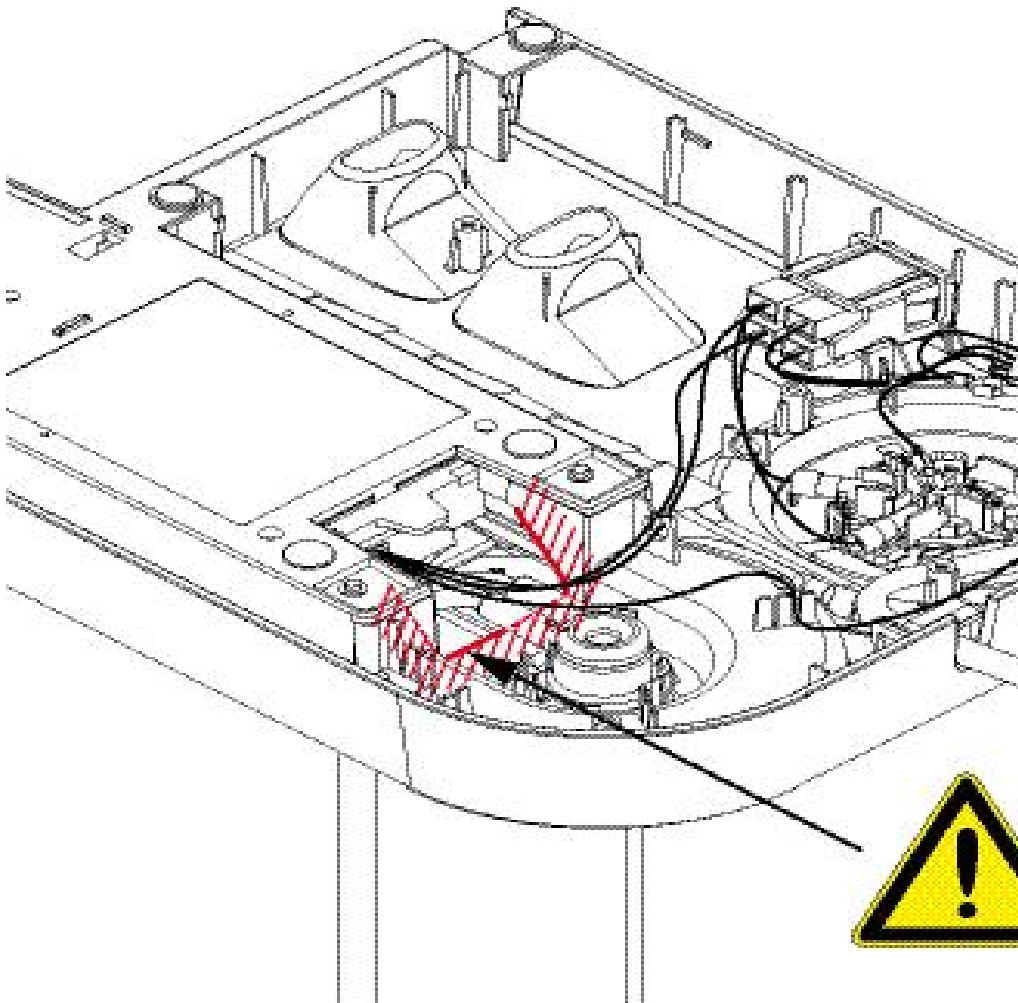


- Use marked cable guides to lay wires.
- Check wiring of power cord (see "Wiring diagrams - model Citiz & milk, EF 485/486" on page 124 and following).



8.5.6 Removing core unit

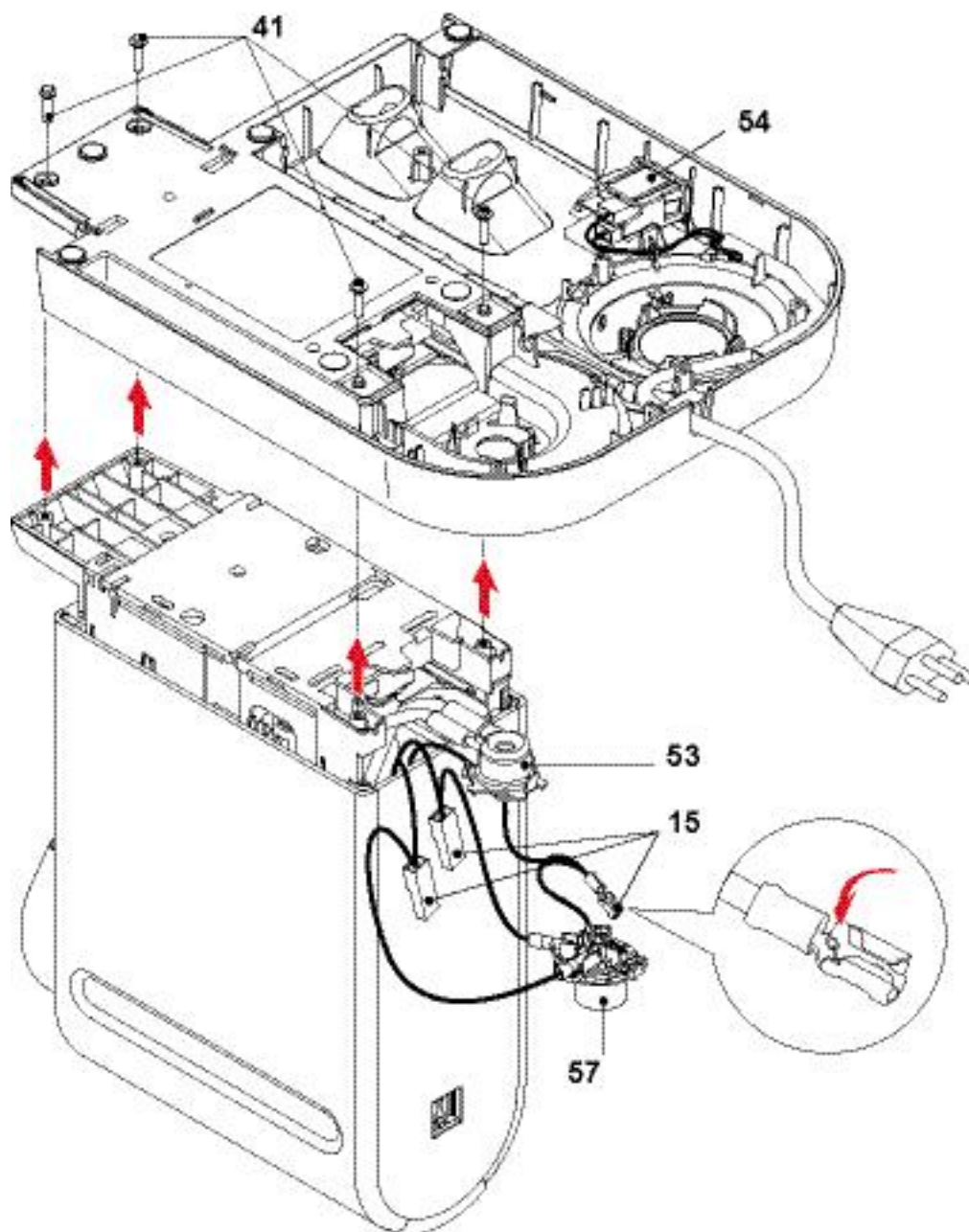
Pay attention to the following safety advice before removing the core unit.




Danger of insulation damages (cuts) on wires between core unit and platform (phase and neutral wire, ground wire if existing).

The sharp casing edges of the platform (marked red in above illustration) can damage the insulation of wires.

Do not stretch and reciprocate wires over sharp edges while removing the core unit.



i After this repair step the core unit can be pulled out of the platform slightly (with still connected hoses and wires). Now the covers of the core unit can be removed.

 Use a pair of flat pliers to pull off insulating sleeve with receptacle.


- Loosen 4 screws (41, oval shaped head) at the bottom side of platform.

For complete removal of the core unit proceed as follows:

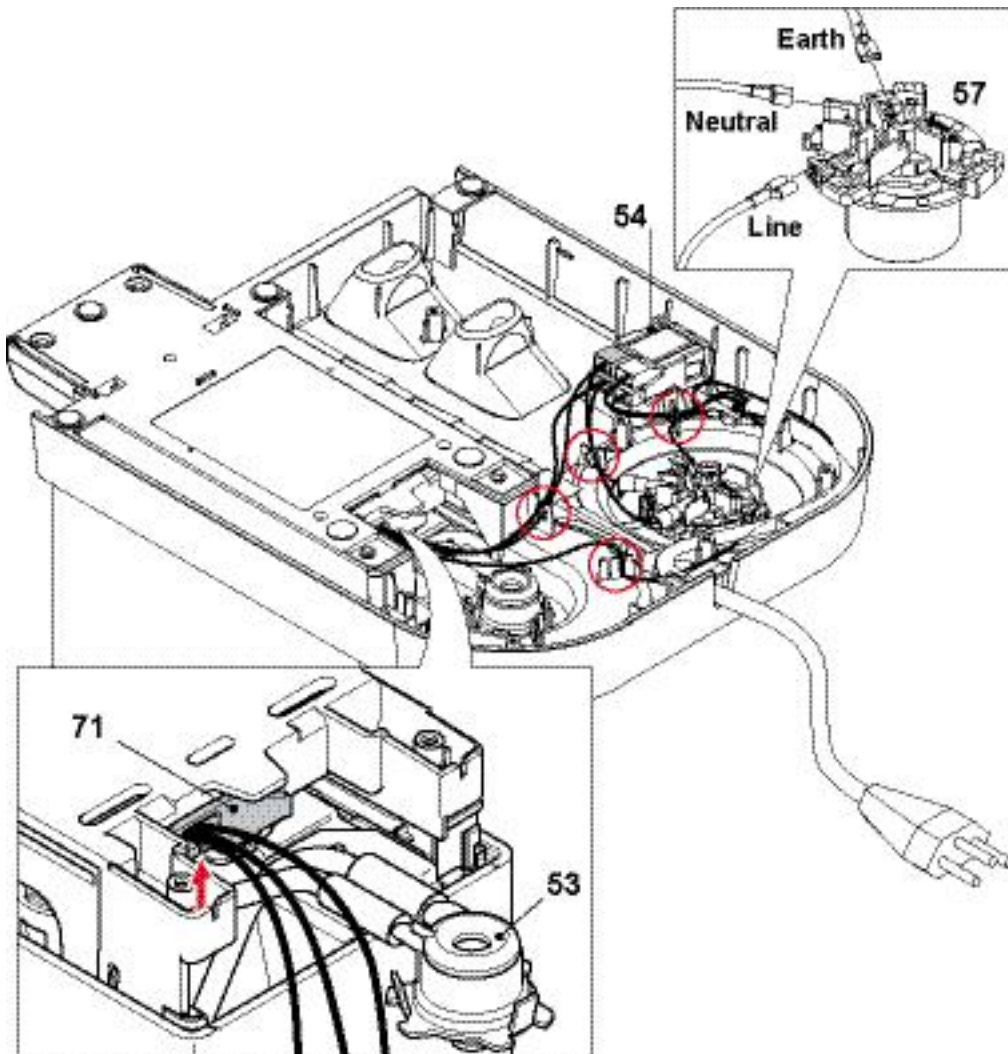
- Remove bottom cover (refer to page 56).
- Remove both insulated faston receptacles (15, part of thermoblock assembly) from mains switch (54).



- If present, disconnect ground wire (15, part of thermoblock assembly).
- If the thermoblock or core unit has to be replaced, disconnect milk frother connector (57). Otherwise the core unit can be removed together with this connector (see page 73).
- Remove water tank connector (53, see page 71).

 The flat receptacle on the ground wire has a special connector latching (see detail). Press down lever at first, then pull off receptacle.

Assembly checkpoints



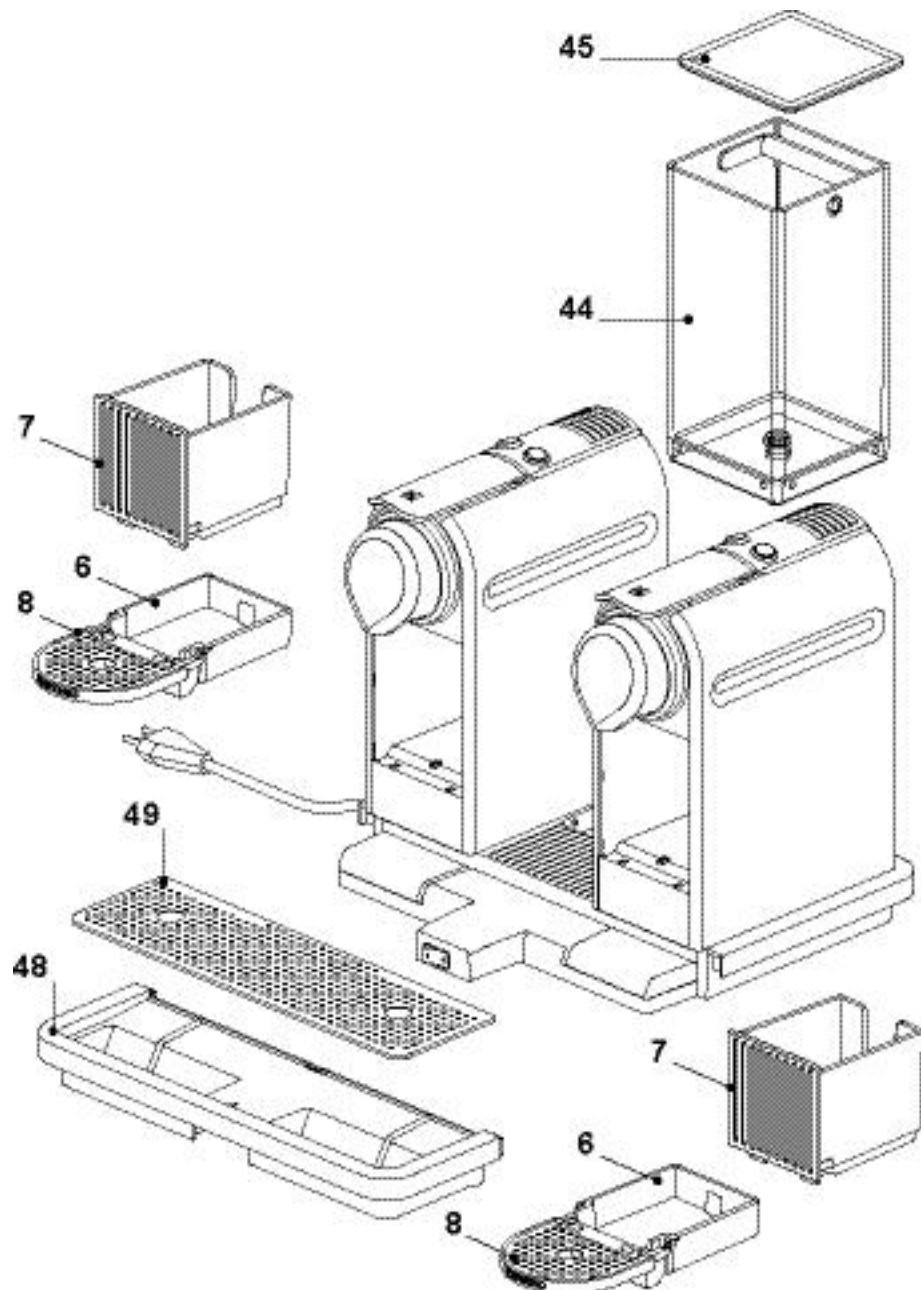
- All covers are assembled on the core unit.
- Check that wiring between core unit and platform is led through cable fixation (71).
- Use marked cable guides to lay wires.
- Check wiring of milk frother connector (57), see detail.
- Check wiring of mains switch (54), see "Wiring diagrams - model Citiz & milk, EF 485/486" on page 124 and following.
- During assembly of the water tank connector (53) on the platform, each of its 3 latches has to engage with an audible click.

8.6 Platform disassembly - model Citiz & Co

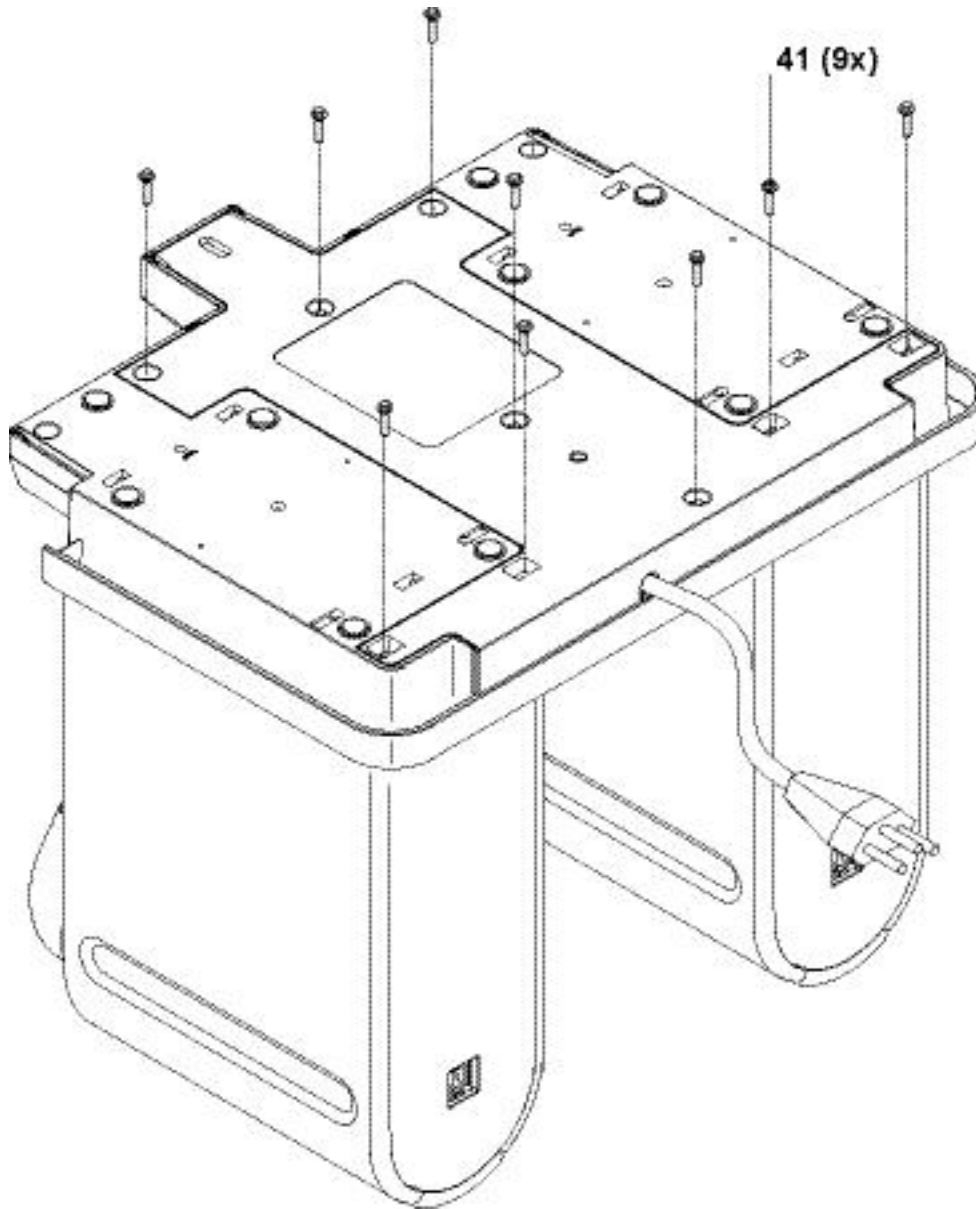
8.6.1 General disassembly

This general disassembly


- is necessary before the removal/disassembly of one or both core units is possible,
- gives access to the components and wiring of the platform.

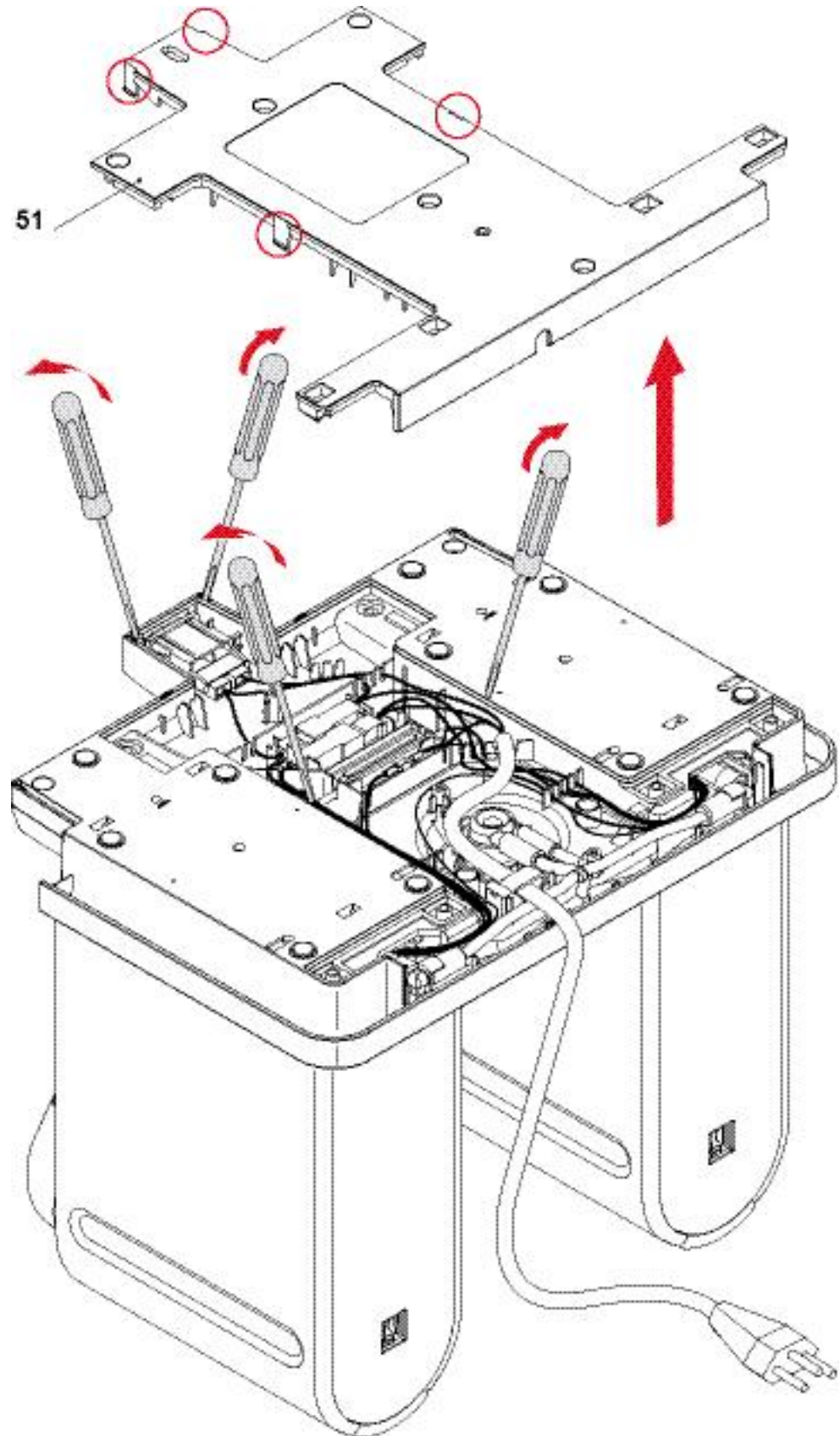


- Take away all removable parts from platform and core units
 - cup supports (8) with waste water containers (6)
 - capsule containers (7)
 - drip tray (48) with drip grid (49)
 - water tank (44) with cover (45).



- At the bottom side of platform loosen 9 screws (41, oval shaped head).

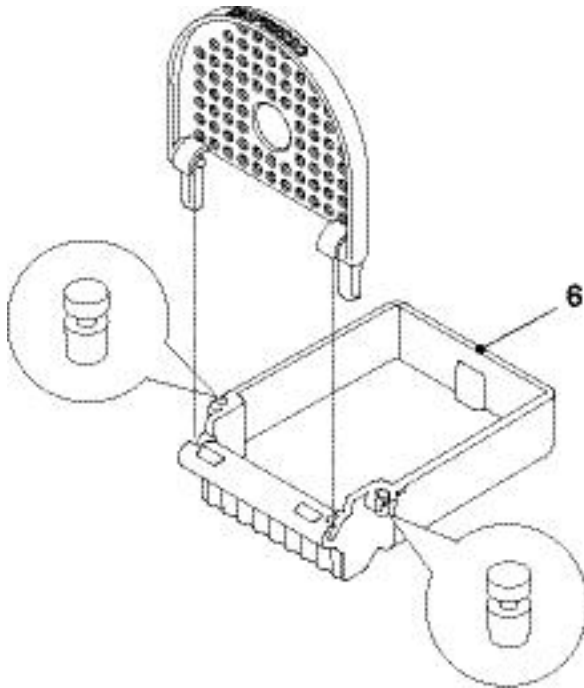
 The core units are fastened with some of these screws as well. Support both core units so that their remaining screw connection to the platform cannot be damaged.



- If necessary use a screwdriver to remove protective cover (51).



Assembly checkpoints




- Check if 2 rubber stoppers are mounted on each waste water container (6).

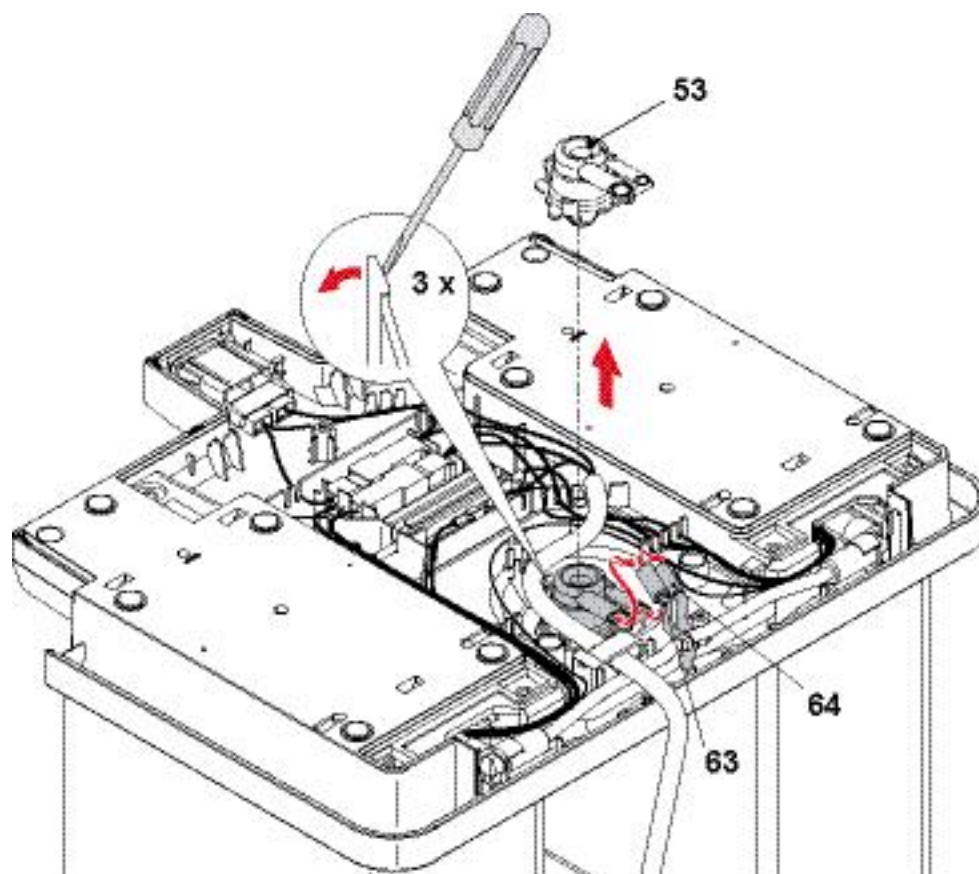
**Risk of damage!**

While assembling the protective cover at the platform, take care not to jam any wires at the screw connections.

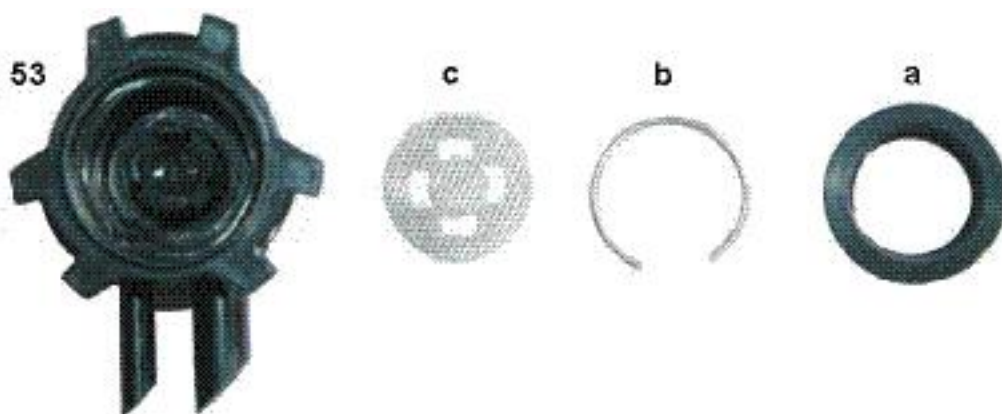


8.6.2 Replacing water tank connector

 The water tank connector (53) is replaced together with gasket, clamping ring and metal sieve.



- Pull off both hoses (63, 64) from water tank connector (53).
- Release the 3 latches one after the other by pressing the top of their hooks outwards with a screwdriver (see detail) and lifting the water tank connector at the same time.



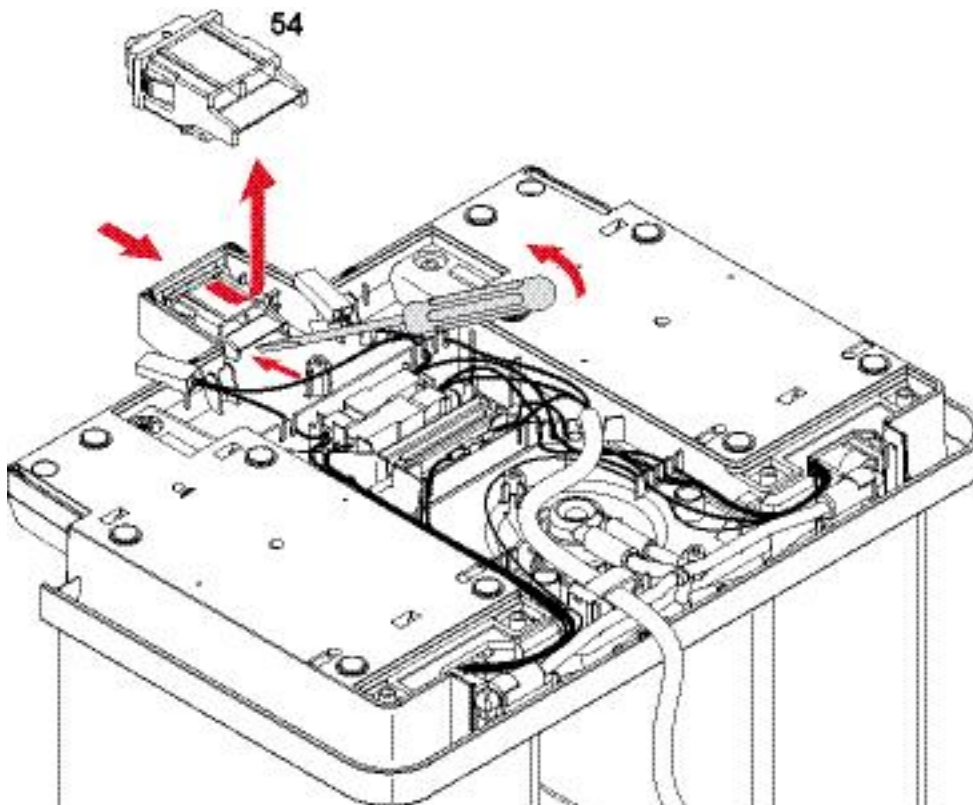
- Remove gasket (a) from water tank connector (53).
- With the help of a pair of tweezers, remove clamping ring (b) and metal sieve (c).
- Clean or replace parts.

Assembly checkpoints



- During assembly of the water tank connector (53) on the platform, each of its 3 latches has to engage with an audible click.
- Insert gasket correctly (see detail).

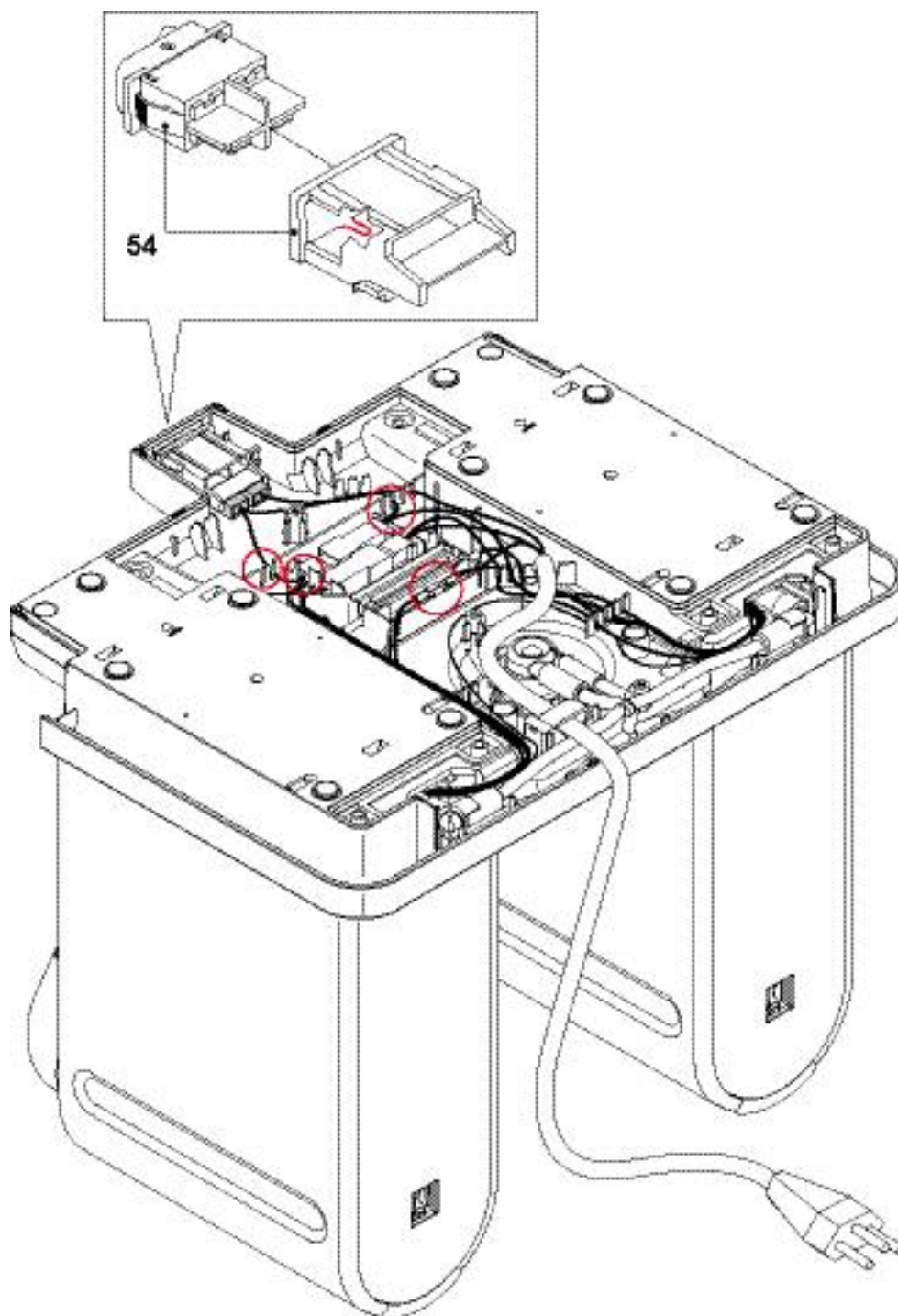
8.6.3 Replacing mains switch



- Remove 2 insulated faston receptacles from mains switch (54).
- Press blade of screwdriver between holder of mains switch and platform carefully. Lift holder with screwdriver slightly. Then press holder with mains switch (54) inwards till it can be removed.

Use a pair of flat pliers to pull off insulating sleeves with receptacles.

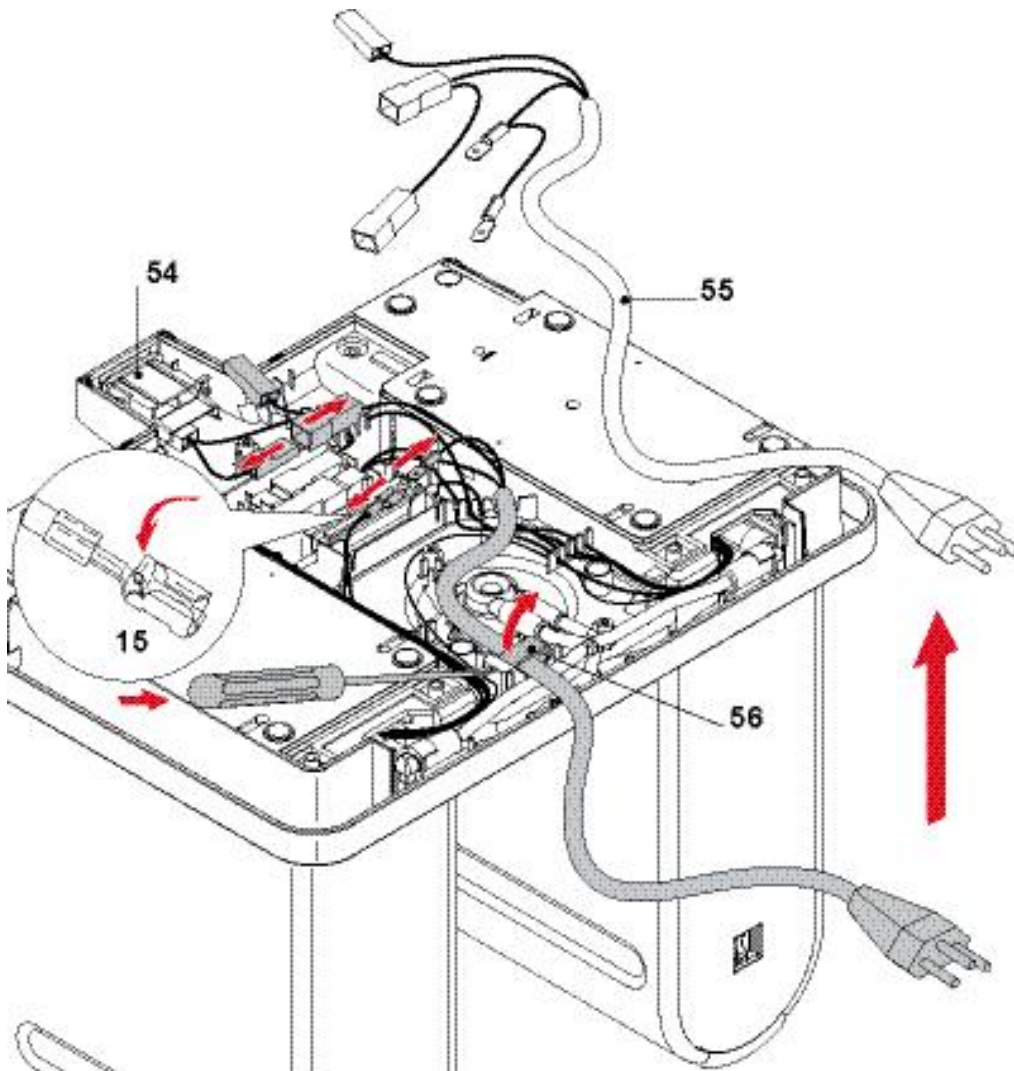
Assembly checkpoints




- Use marked cable guides to lay wires.
- The mains switch holder (54) has a notch: correct fitting position is with mains switch connections next to the platform (see detail).





8.6.4 Replacing power cord



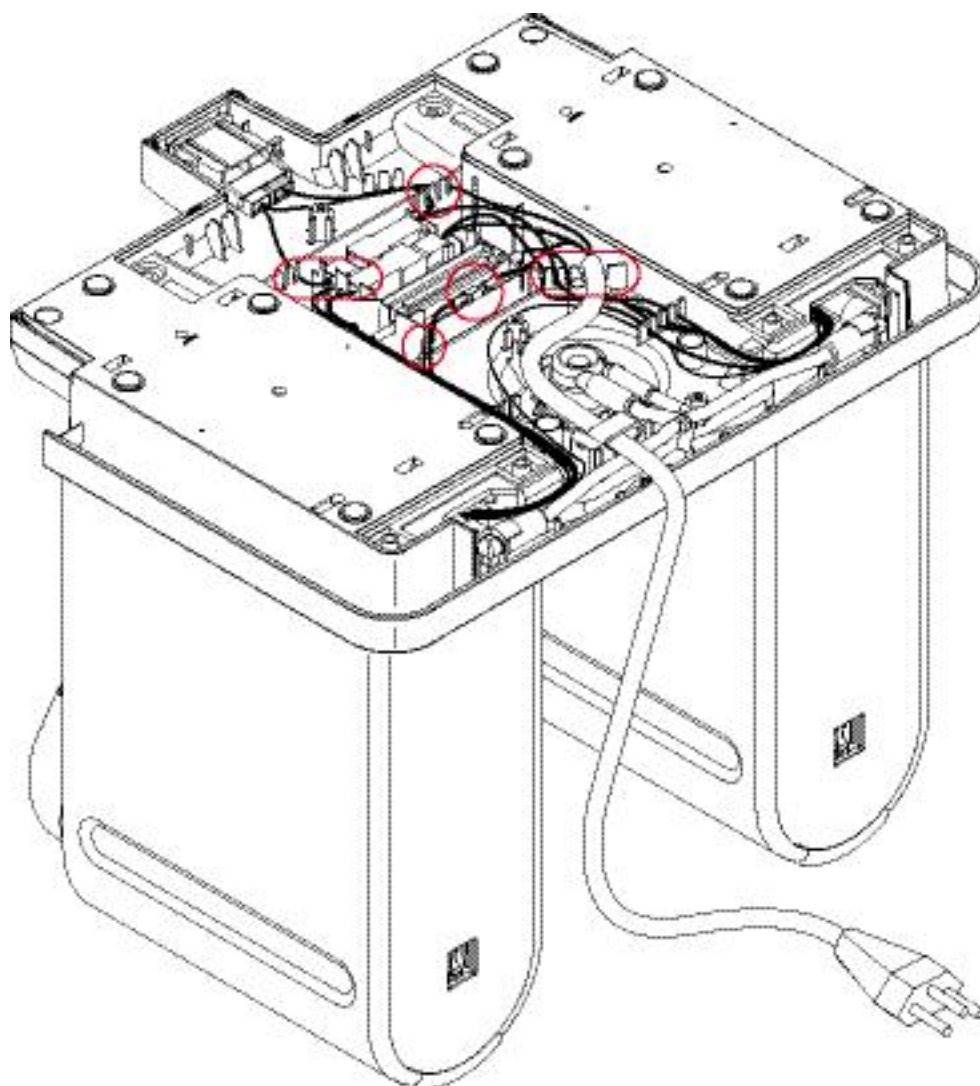
- Remove insulated faston receptacle of phase wire (55) from mains switch (54).
- Disconnect both insulated adapter plugs of neutral wire (55).
- If a ground wire is present, disconnect both flat receptacles (15).
- Unlatch cable bracket (56) with screwdriver.

 Use a pair of flat pliers to pull off insulating sleeve with receptacle.

 The flat receptacles of the ground wire connections (15) have a special connector latching (see detail). Press down lever at first, then pull off receptacle.

 The cable bracket is under tension. Therefore, hold the cable bracket with your finger when unlatching it.

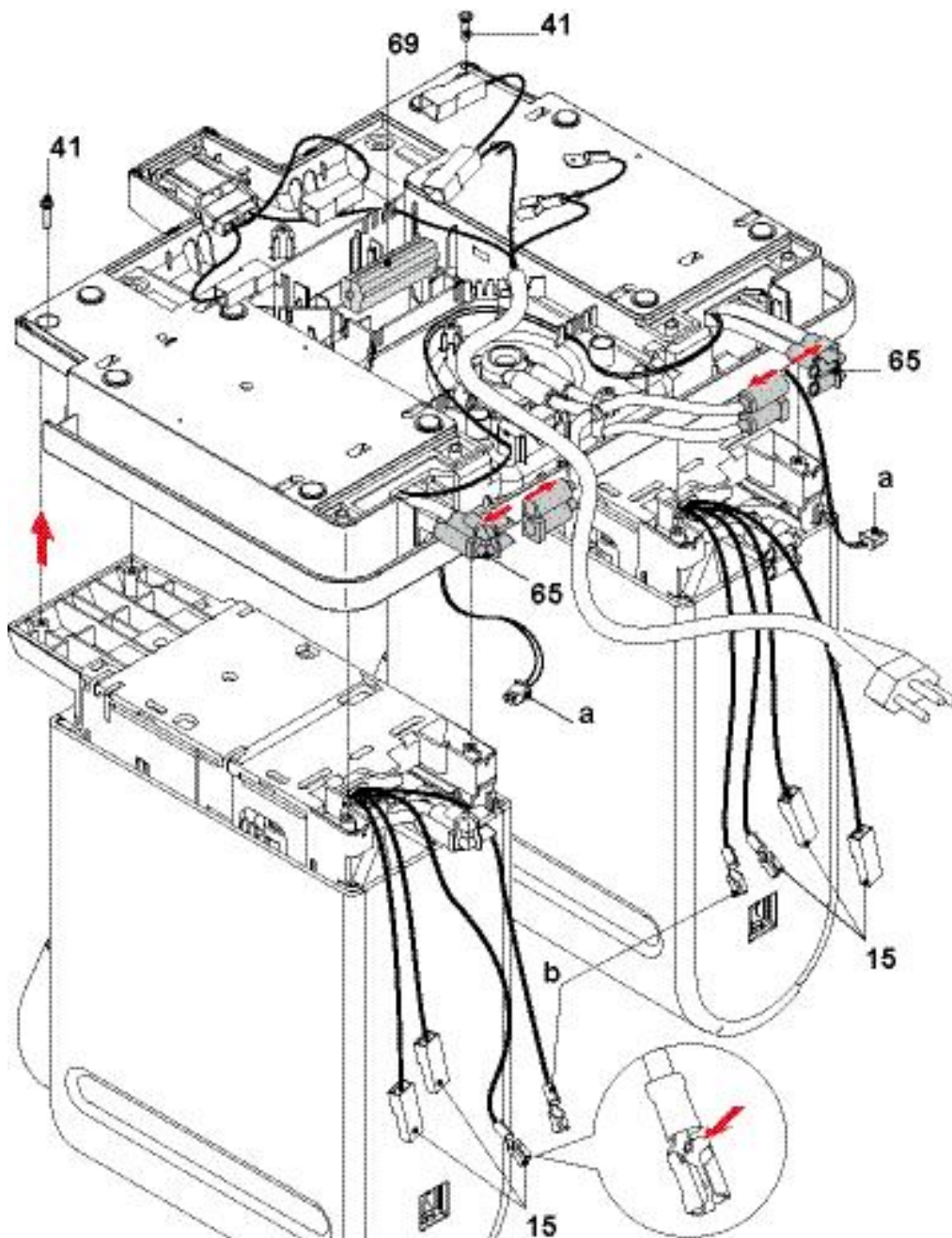
Assembly checkpoints



- Use marked cable guides to lay wires.
- Check wiring of power cord (see "Wiring diagrams - model Citiz & Co, EF 487/488" on page 128 and following).



8.6.5 Removing core units



i Both core units can be removed the same way.

- For each core unit loosen 1 remaining screw (41, oval shaped head) at the bottom side of platform.

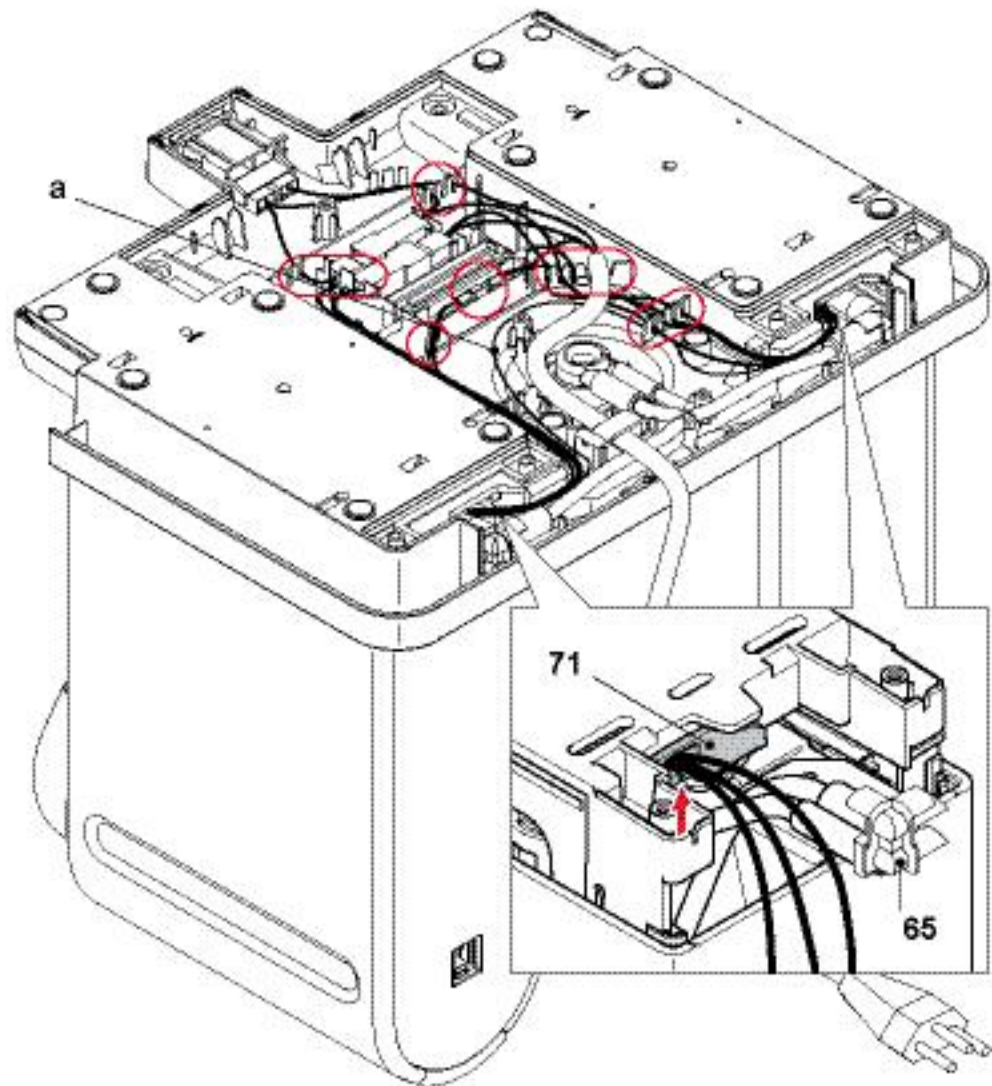
For complete removal of a core unit proceed as follows:

4. Disconnect 2 insulated adapter plugs (15, phase and neutral wire).
5. If a ground wire (15, part of thermoblock) is present, disconnect flat receptacle.
6. Open protective case (69) with screwdriver and disconnect connection cable (b).
7. Pull out core unit from platform slightly to disconnect synchronization cable plug (a) from electronic control board.
8. Pull off both hoses from angled H-connector (65).
9. Lift core unit out of platform.

i After the first repair step the core unit can be pulled out of the platform slightly (with still connected hoses and wires). Now the covers of the core unit can be removed.

⚙ The flat receptacle on the ground wire has a special connector latching (see detail). Press down lever at first, then pull off receptacle.

Assembly checkpoints




- All covers are assembled on the core unit.
- Use marked cable guides to lay wires.
- Check wiring (see "Wiring diagrams - model Citiz & Co, EF 487/488" on page 128 and following).
- Make sure to reconnect synchronization cable plugs (a) on electronic control boards.
- Mind the hose positions on angled H-connector (65).
- Check that wiring between core units and platform is led through cable fixations (71).



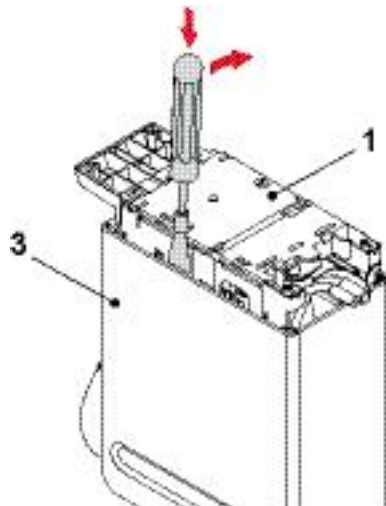
8.7 Disassembly of core unit, C-range

8.7.1 General disassembly

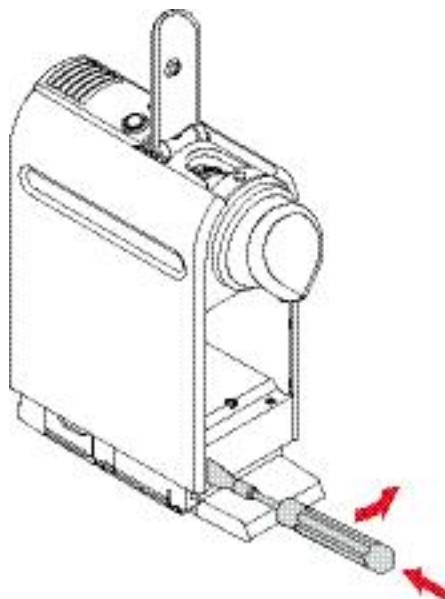
The core unit has to be removed from the platform at first (see according chapter "platform disassembly"). It is possible to perform a general disassembly of the core unit with intact hose and wire connections to the platform (e.g. for repair, leakage check).

 After general disassembly of the core unit a repairing / service holder device is helpful for further repair work.

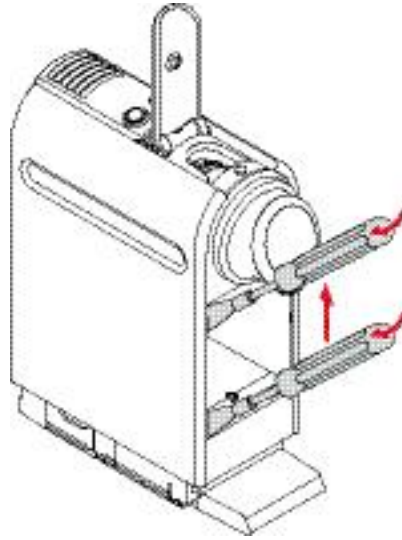
Remove left side panel



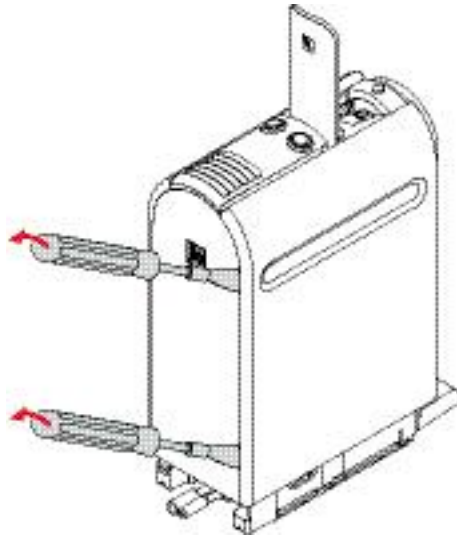
1. Insert disassembly tool between bottom of left side panel (3) and chassis (1).
2. Swivel disassembly tool till latch opens at the bottom.




3. Insert disassembly tool into lower gap at the front.
4. Carefully turn disassembly tool slightly to the right to open the latch.

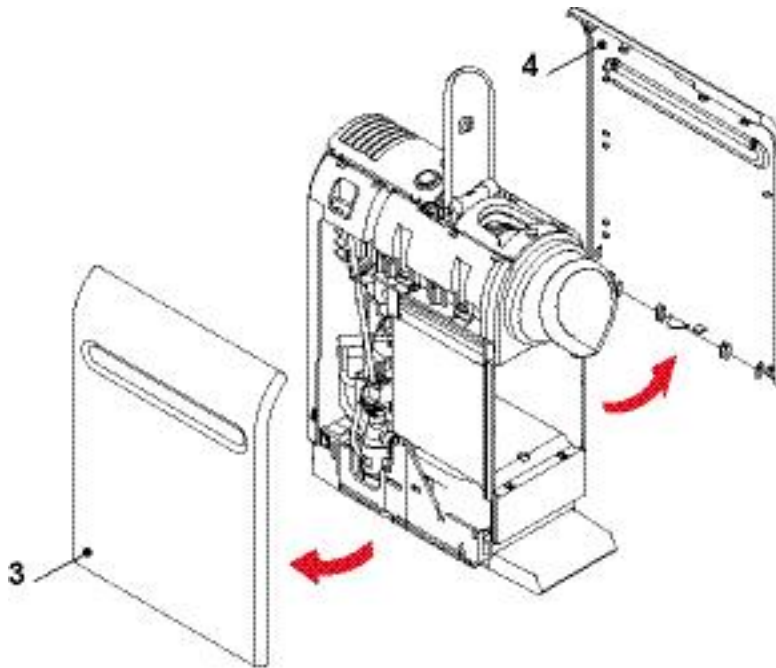


5. Insert disassembly tool laterally into the gap above.
6. Carefully turn disassembly tool slightly forward to open the next latch.
7. Move disassembly tool upwards and open remaining latch the same way.



8. At the back insert disassembly tool into shadow gap of left side panel.
9. Swivel disassembly tool carefully to open first latch.
10. Move disassembly tool upwards and open the other two latches the same way.

 Insert disassembly tool at right angles only. Otherwise the shadow gap can be damaged.

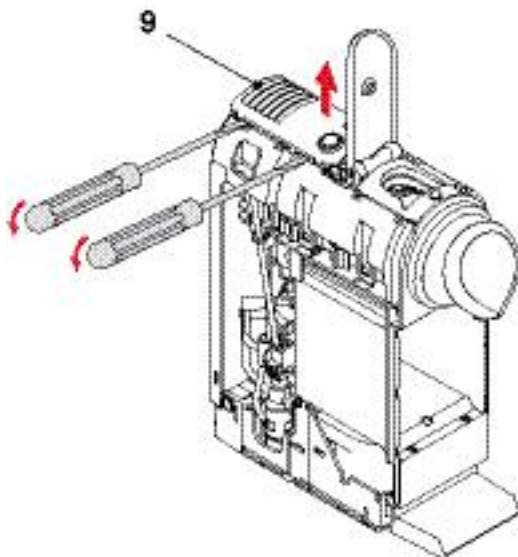


11. Swing up and remove left side panel.

Remove right side panel

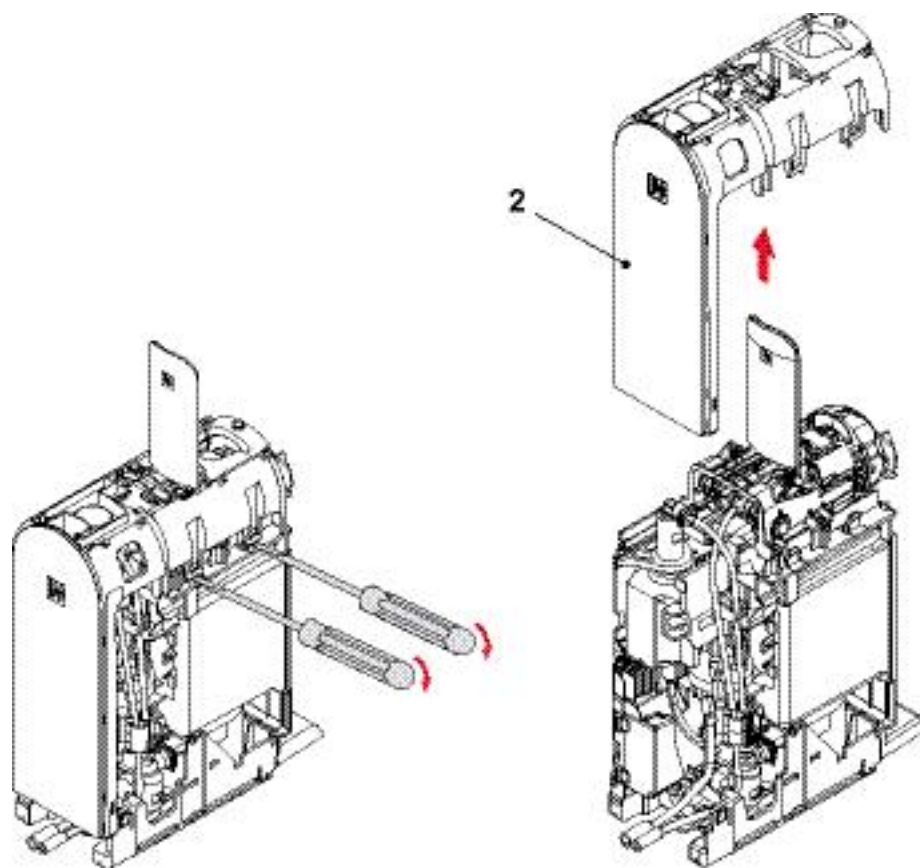
Remove the right side panel (4) in the same sequence as for the left side panel (3).

Remove blind



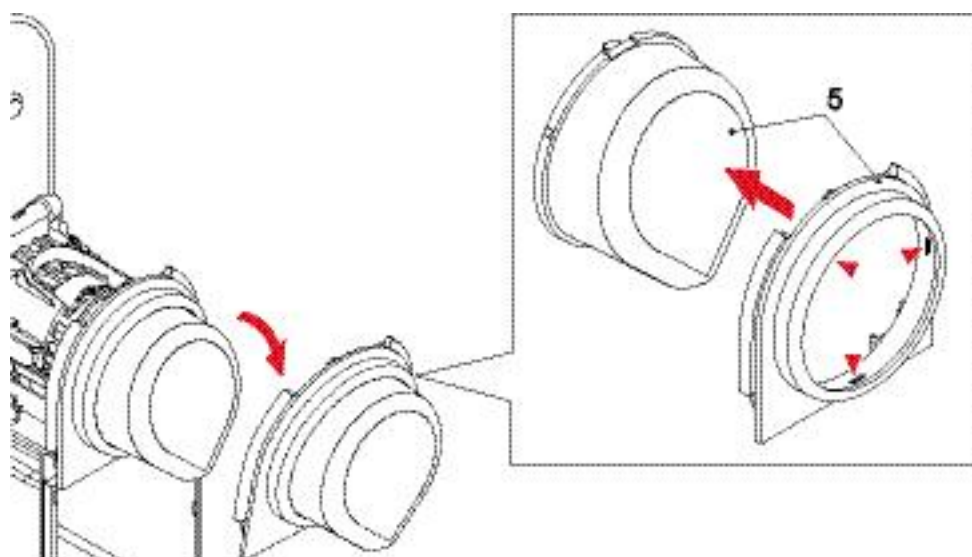
1. Open 2 latches on each side of blind (9) with screwdriver.
2. Remove blind together with coffee buttons and wiring.

Remove cover



1. Use a screwdriver to release 2 latches on each side.
2. Lift and remove cover (2).

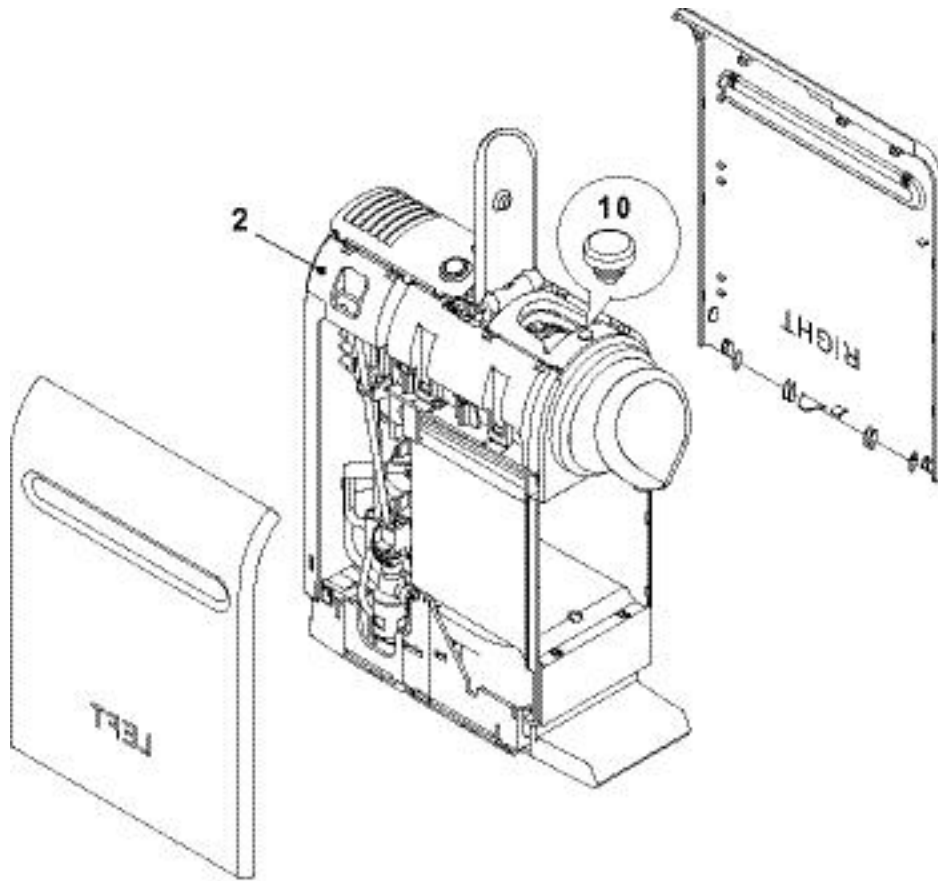
Remove front cover with outlet



1. Release 3 latches on front cover by hand and press out outlet (5, see detail).



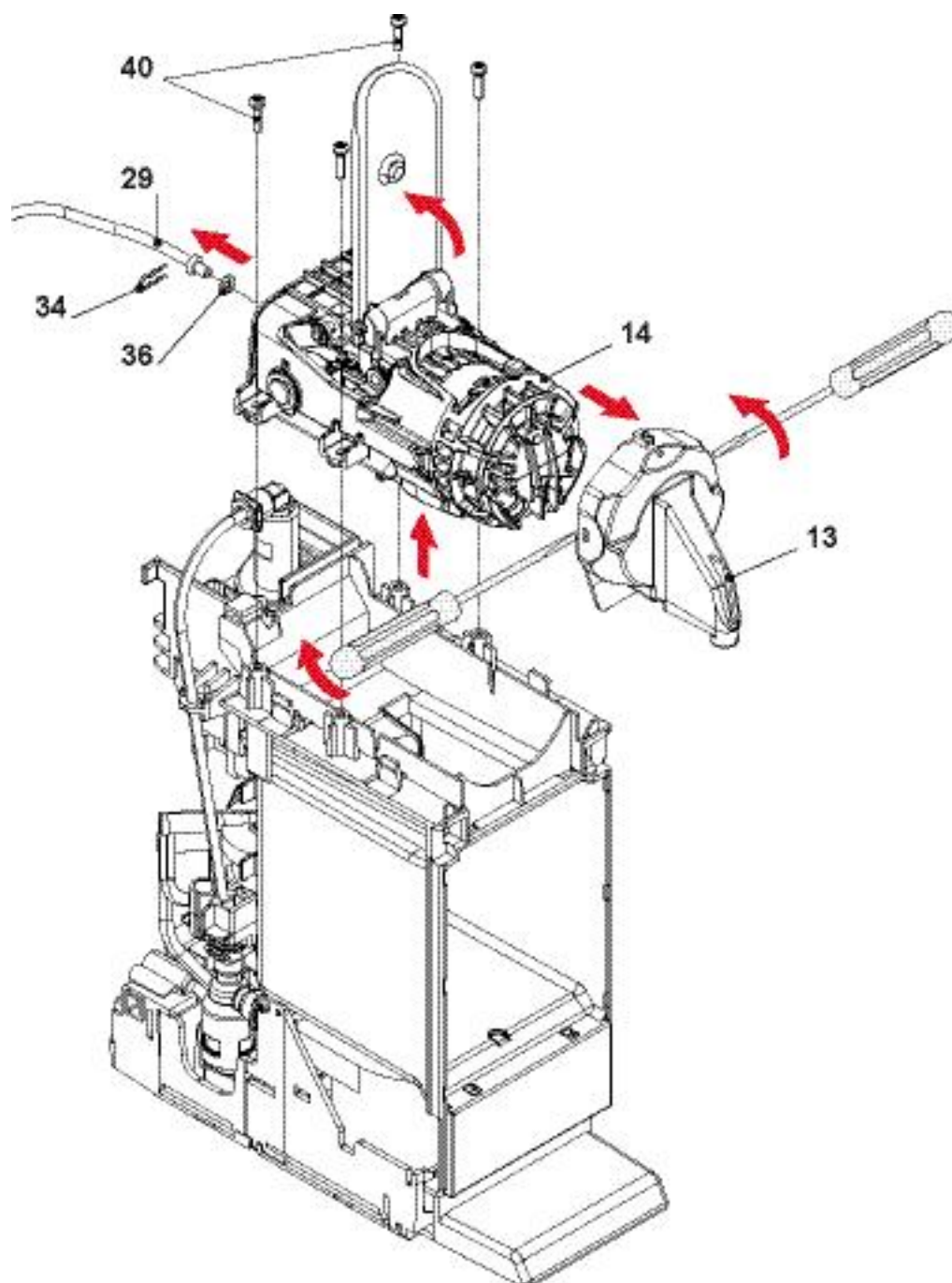
Assembly checkpoints




- For easy identification, the side panels are marked with "RIGHT" or "LEFT" on the inside.
- Check if damper (10) for closing handle is installed on cover (2).
- Check that all connection wires to the platform are led through cable fixation (71).



8.7.2 Replacing compact brewing unit

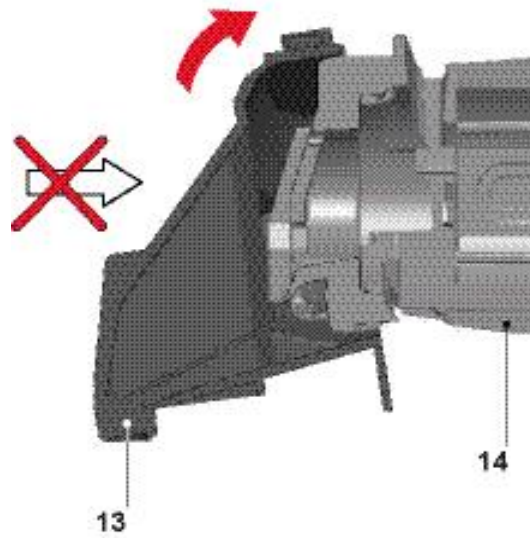


 Open closing handle to get access to hose connection.

- Use a pair of pointed pliers to remove connector clip (34) and hose (29) with O-ring (36).
- Use Torx screwdriver TX10 to loosen 4 screws (40).
- After removal of compact brewing unit (14), release 2 latches with screwdriver and remove steam cover (13).



Assembly checkpoints

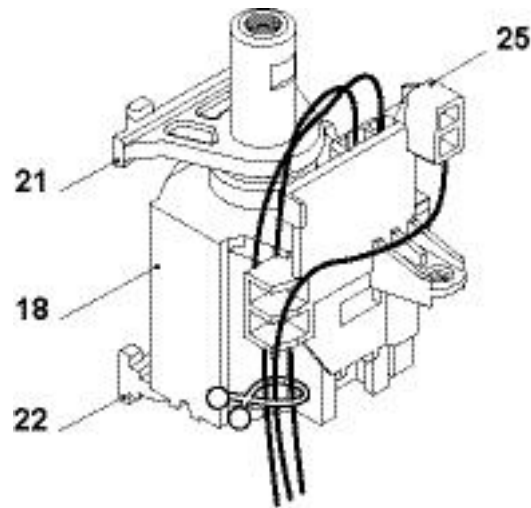


- At first assemble steam cover (13) on new compact brewing unit (14) as shown.
- Replace O-ring (36) of hose connection on compact brewing unit.



8.7.3 Replacing pump

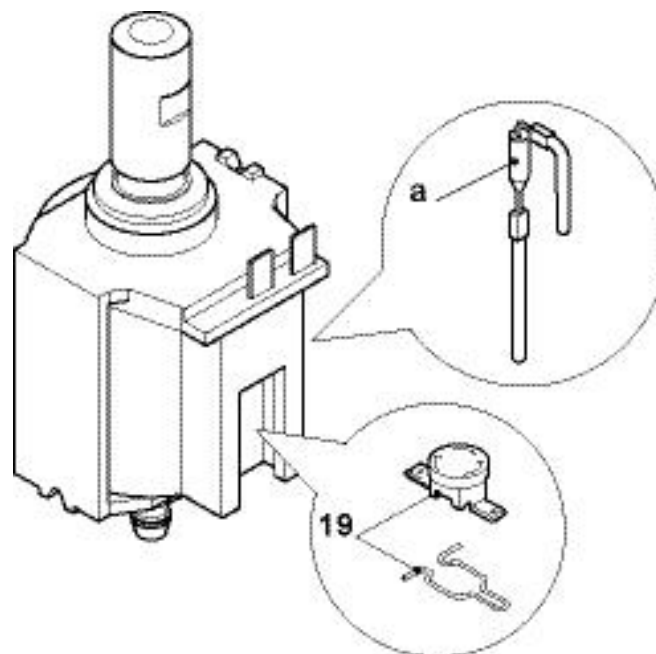
General



The pump (18) can only be replaced as assembly consisting of

- pump, prewired with thermostat (19, see below) or thermal cut off fuse (a)
- 2 pump supports (21, 22)
- pump cover (25).

i The pump is equipped either with a thermal cut off fuse or a thermostat depending on the voltage range or manufacturer.



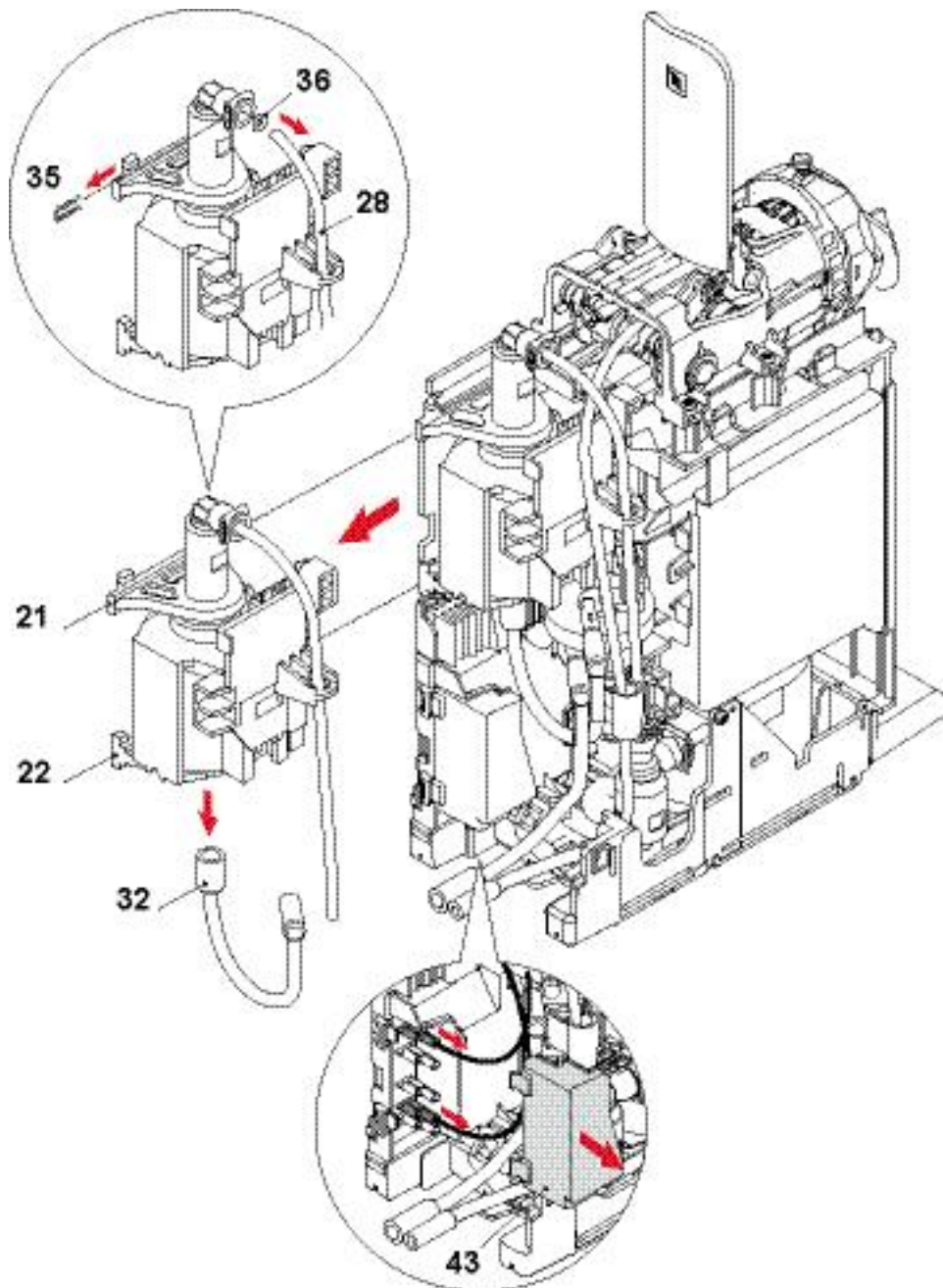
a) Thermal cut off fuse

19) Thermostat with retaining clip

A blown thermal cut off fuse (a) has to be replaced together with the pump assembly.
A tripped thermostat (19) resets after about 30 min automatically.

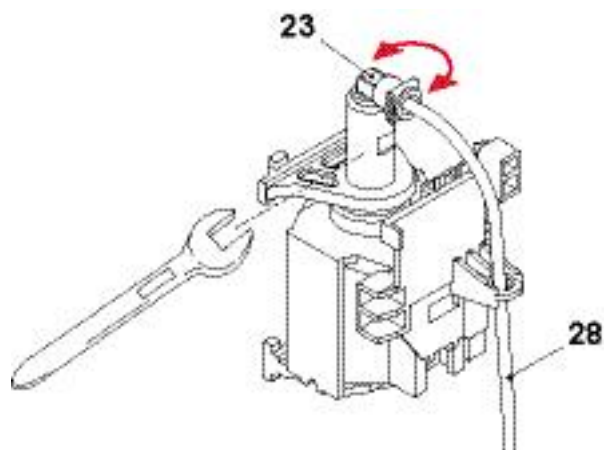


Replacing pump assembly



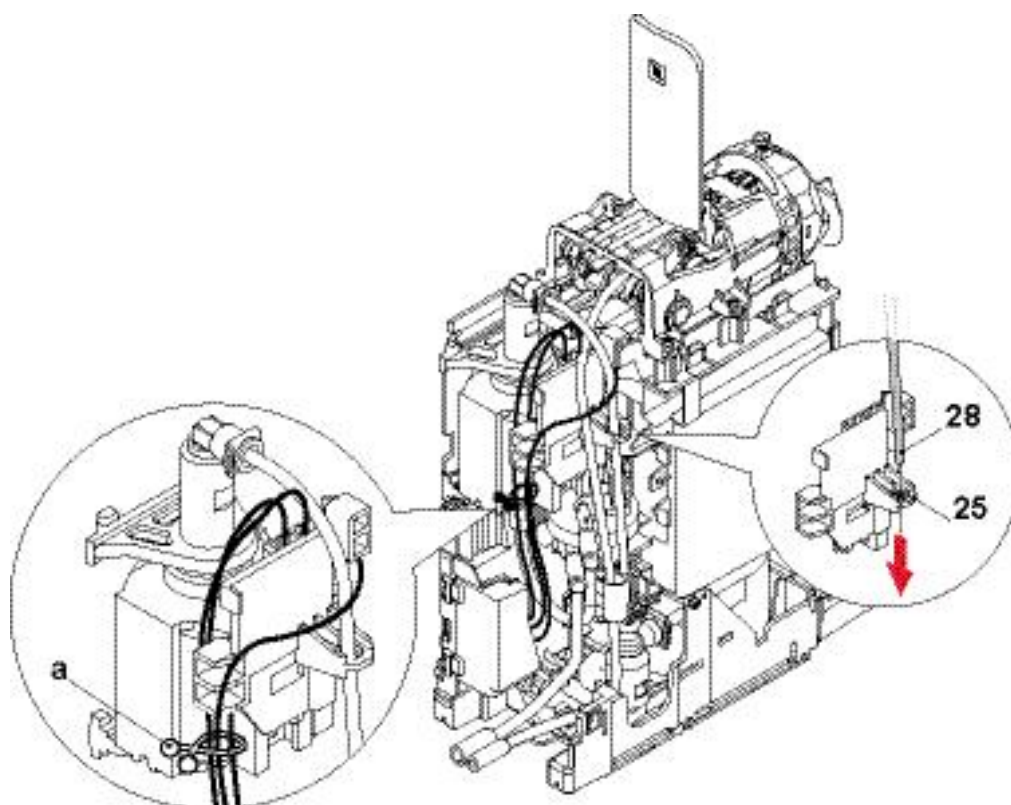
- Remove both hoses (28, 32) from pump. Use a pair of pointed pliers to remove connector clip (35) with O-ring (36).
- Remove cover (43) from electronic control board and disconnect 2 faston receptacles of pump wires.
- Pull out supports (21, 22) together with complete pump assembly.

Assembly checkpoints



The white plastic lid on the pump is rotatable and has a square seat for the fork wrench.

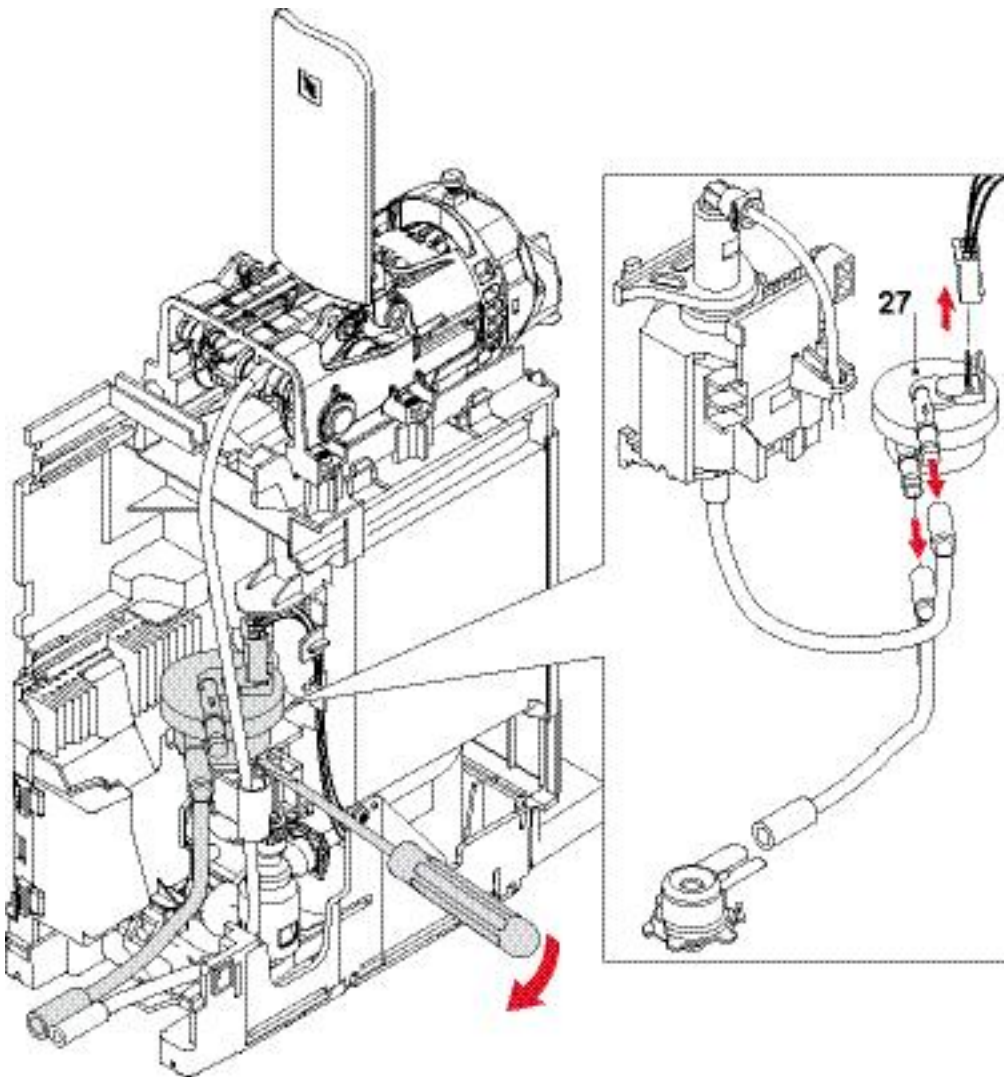
- Adjust position of pump connector (23) towards hose (28) if necessary.
- Check condition of supports (21, 22). Replace brittle supports.



- Pass hose (28) from pump to self priming device through lug on pump cover (25).
- Use a cable clamp (a) to fix pump wires (different location depending on thermo fuse/thermostat).



8.7.4 Replacing flow meter

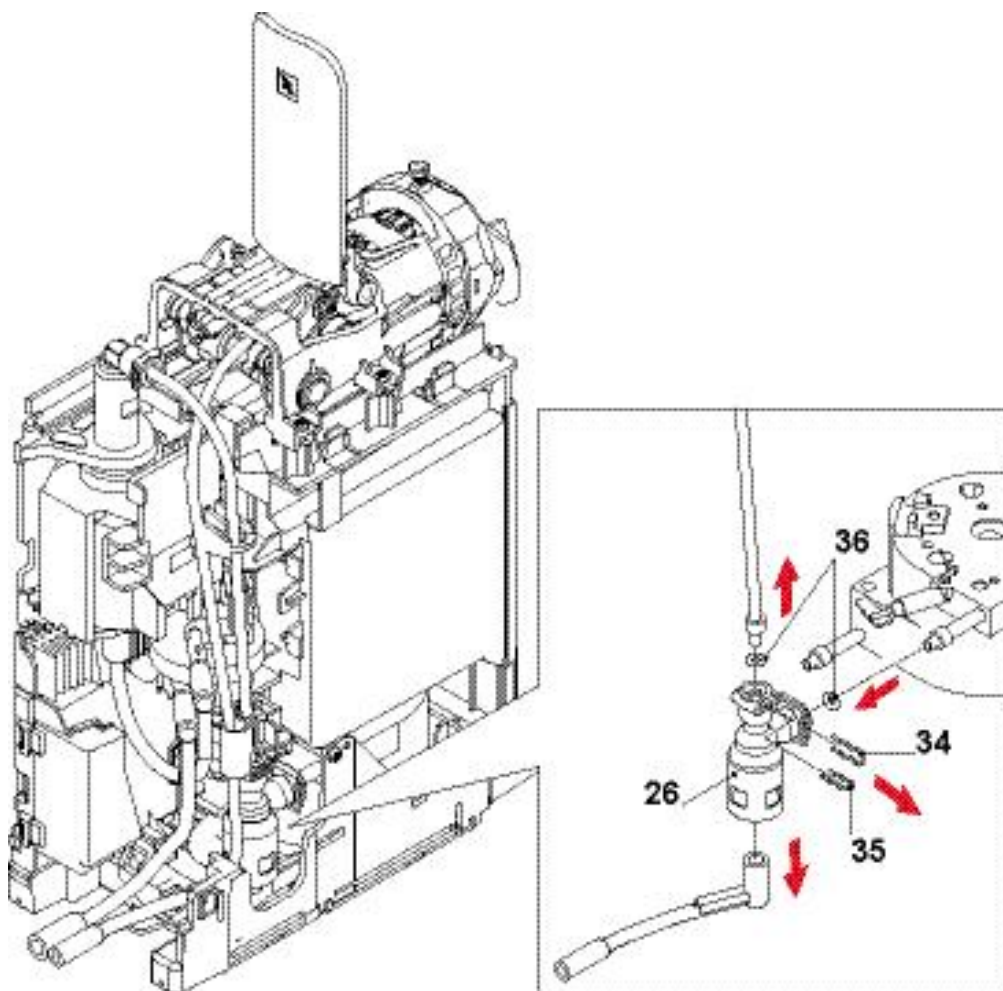


Assembly checkpoint



- Lay connection cable to flow meter (27) in bracket.
- Mind the hose positions on the flow meter.

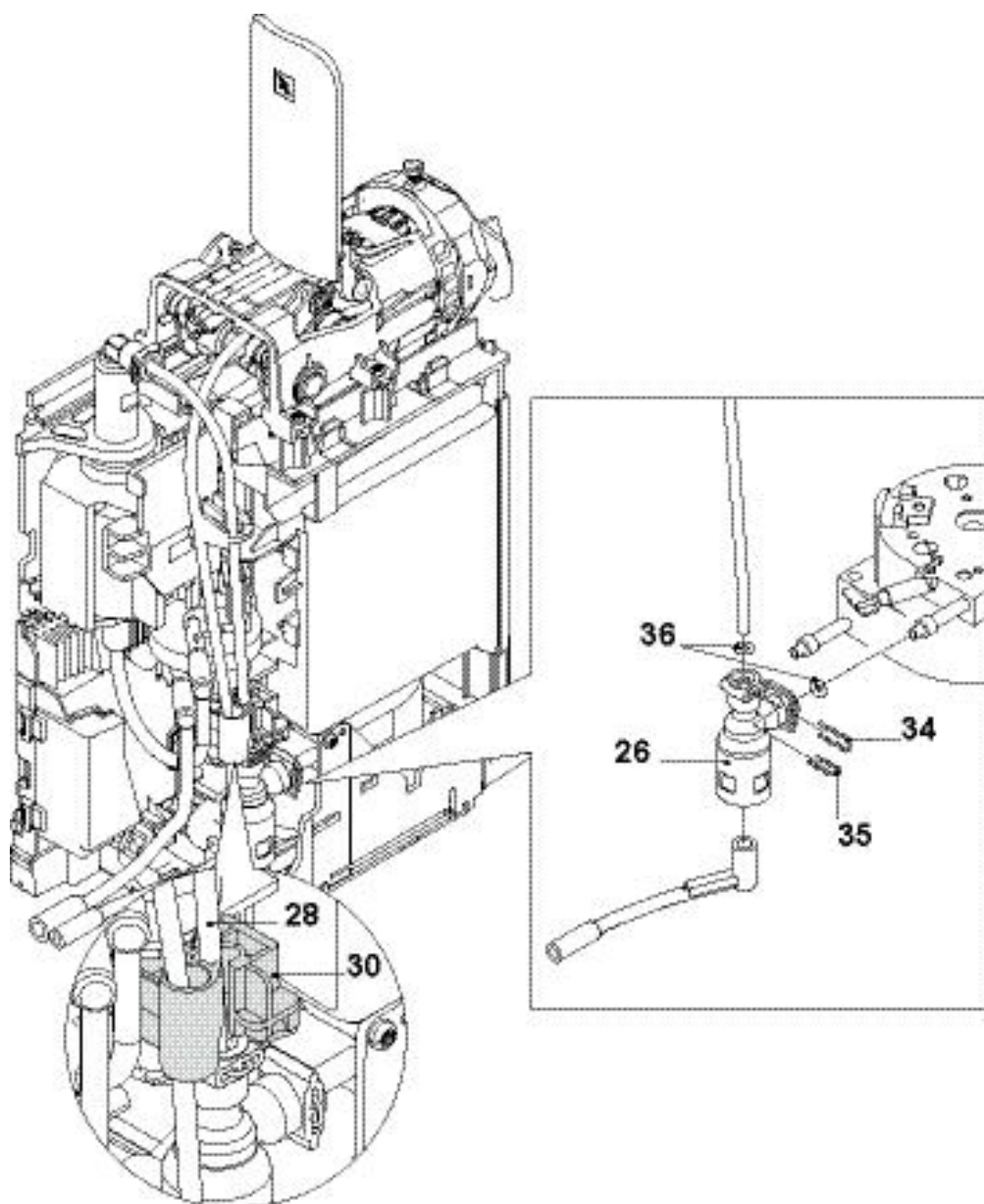
8.7.5 Replacing automatic priming device (APD)



- Use a pair of pointed pliers to remove connector clips (34, 35) from automatic priming device (26).



Assembly checkpoints



- Replace both O-rings (36) together with automatic priming device (26).
- Insert hose (28) in tube guiding (30).

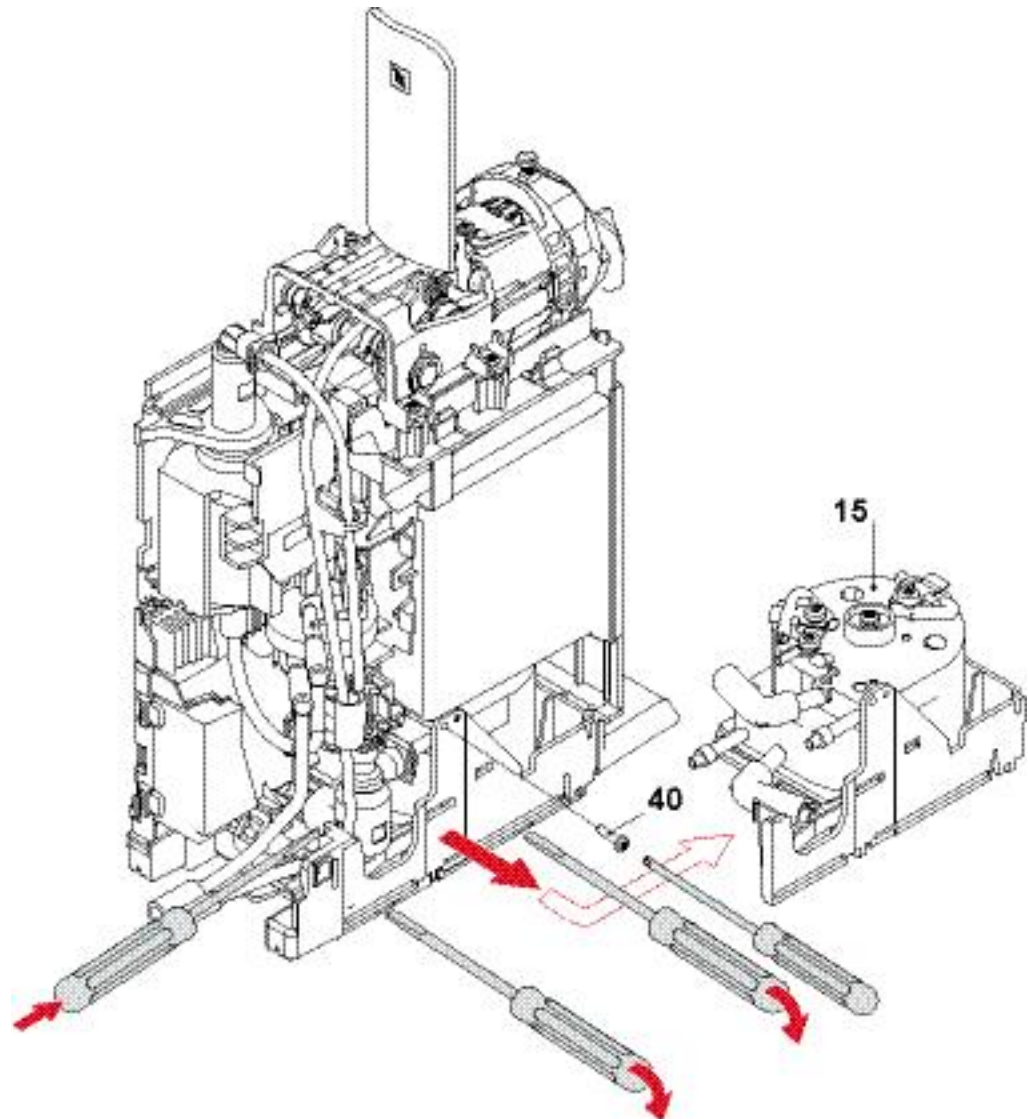


8.7.6 Replacing thermoblock with NTC sensor and fine wire fuse(s)

i Depending on national regulations, one or two fine wire fuses are mounted on the thermoblock (see "Wiring diagrams" on page 118 and following).

A defect thermoblock can only be replaced with an assembly consisting of

- thermoblock, prewired with NTC temperature sensor, fine wire fuse(s) and ground wire (only if required),
- thermoblock support.



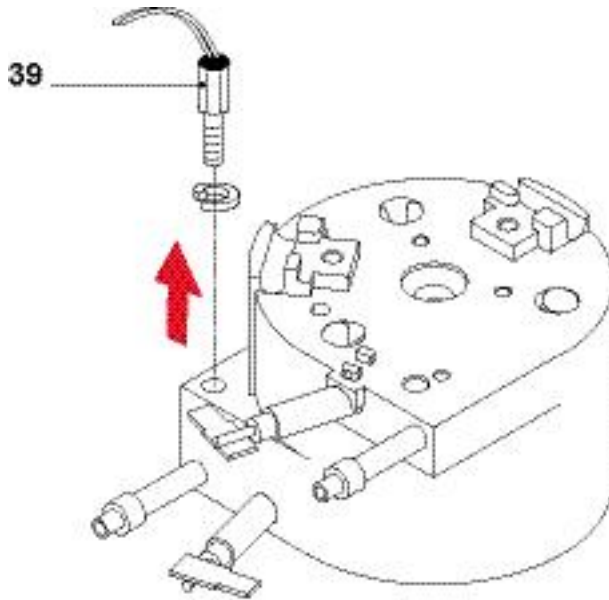
- Use Torx screwdriver TX10 to loosen screw (40).
- Release 3 latches and pull out support with thermoblock assembly (15).



Do not stress NTC cable when removing support.



Replacing NTC temperature sensor

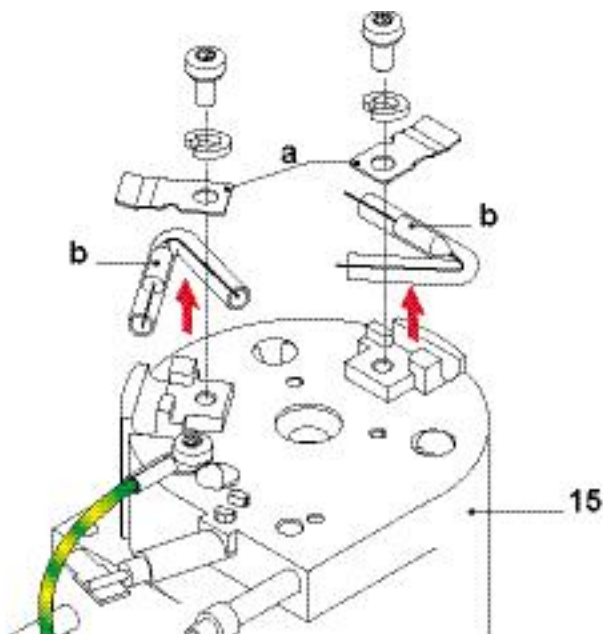


- Unplug NTC sensor cable from electric control board (42) first.
- Test NTC temperature sensor (39), see “NTC temperature sensor functionality” on page 139.

Assembly checkpoint - NTC temperature sensor

- Tighten the new NTC temperature sensor (39) and spring ring with a torque wrench (80 - 100 Ncm).

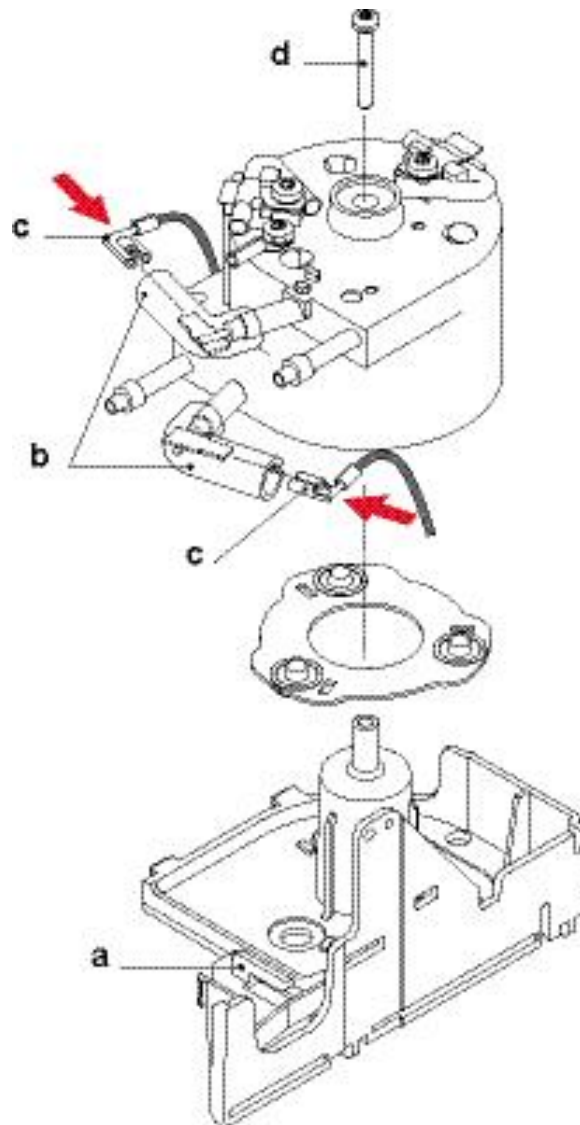
Replacing fine wire fuse(s)



Assembly checkpoints - fine wire fuse(s)

- When mounting a safety clip (a) on the thermoblock (15), make sure that the housing of the fine wire fuse (b) is positioned exactly below the safety clip.
- Tighten fastening screw and spring ring with a torque wrench (150 (+30/-0) Ncm).

Assembly checkpoints - thermoblock

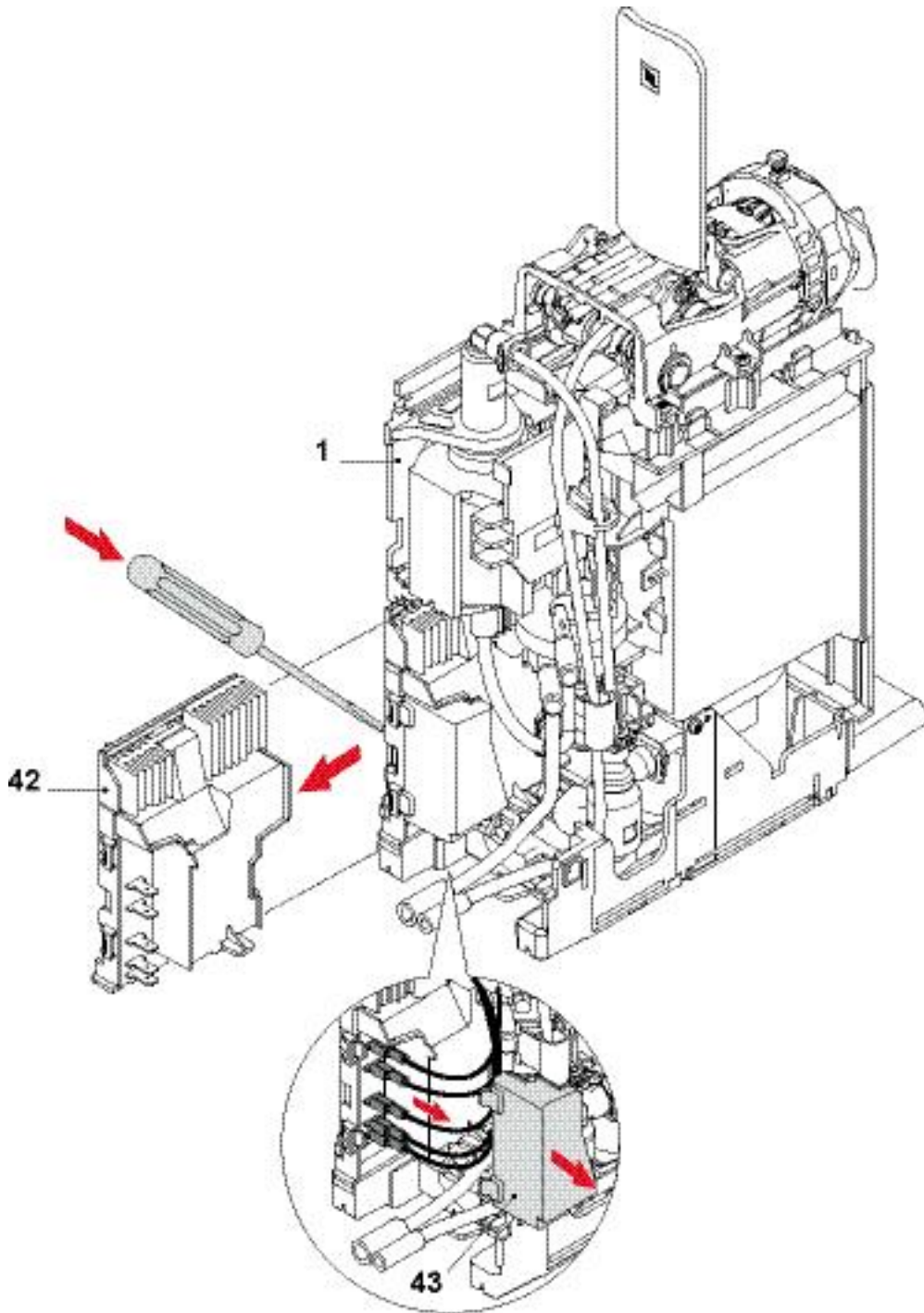


- All wires from thermoblock to platform must be led through the bracket (a) at the bottom of the support.
- The black grommets (b) on the electrical thermoblock connections are slitted at the end. If an angled Faston receptacle (c) is used, make sure that its wire runs through this slit.
- Tighten central fastening screw (d) with a torque wrench (150 (+30/-0) Ncm).



8.7.7 Replacing electronic control board with button prints

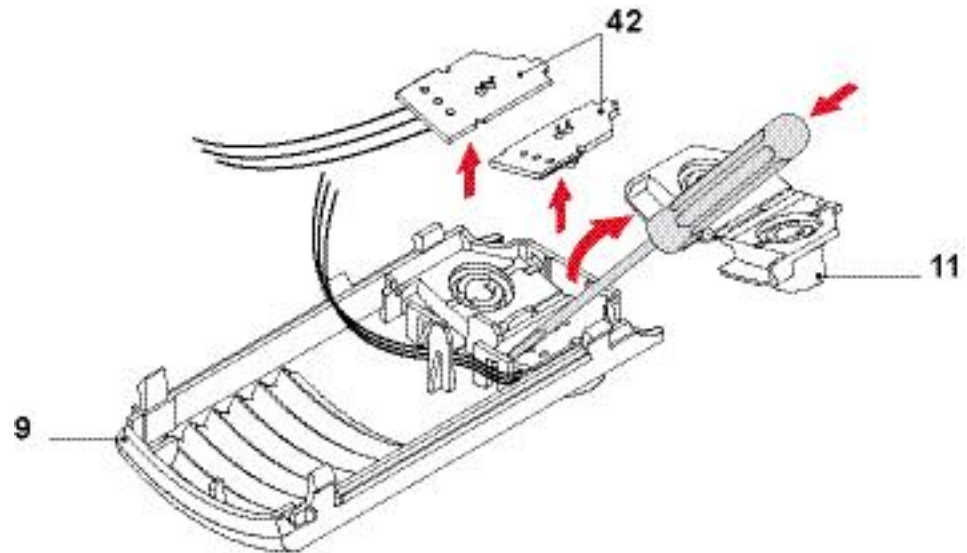
i The replacement board is equipped with protective housing and cover.



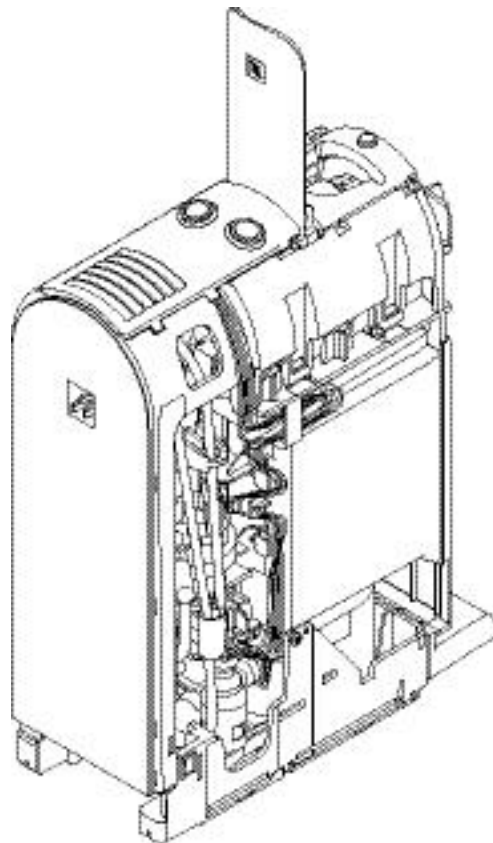
- Remove at first
 - NTC connector from electronic control board,
 - connector cable from flow meter,
 - electronic lid (43),
 - faston receptacles from electronic control board.
- Insert tip of screwdriver between chassis (1) and protective case of electronic control board (42) to release latches. Then pull out assembly.



Replacing button prints / coffee buttons



Assembly checkpoints



For installing and connecting a new electronic control board, the service technician must be earthed with a grounding band.


- After assembly check the plug arrangement of the electronic control board (see "Wiring diagrams" on page 118 and following).
- Lay connection wires to button prints in brackets and cable guide like shown.



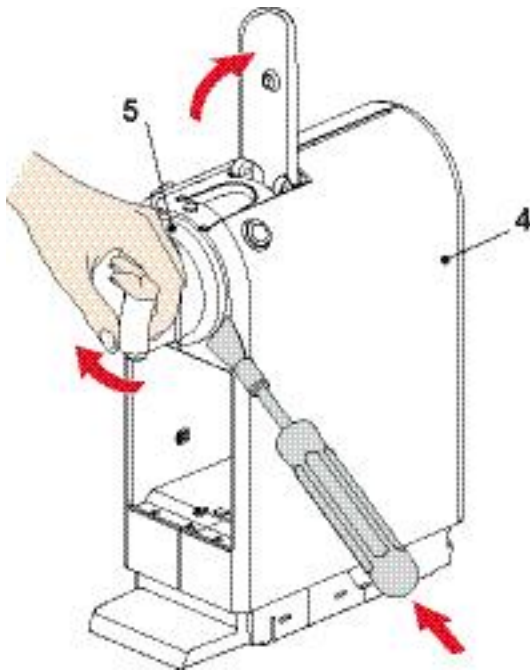
8.8 Disassembly of core unit, D-range

8.8.1 General disassembly


The core unit has to be removed from the platform at first (see according chapter "platform disassembly"). It is possible to perform a general disassembly of the core unit with intact hose and wire connections to the platform (for repair, leakage check etc.).

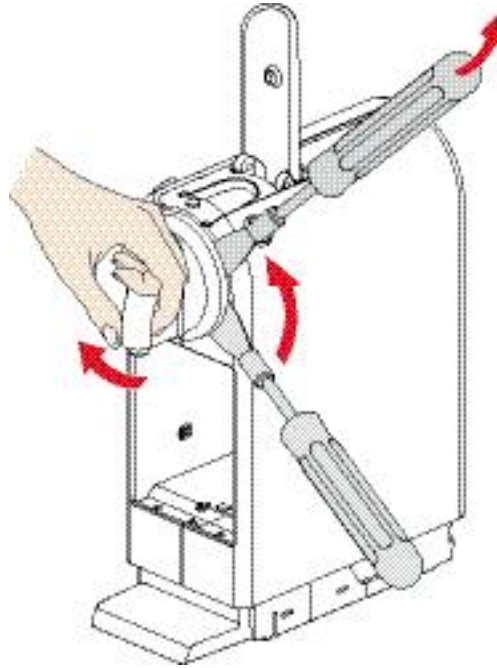
 After general disassembly of the core unit a repairing/service holder device is helpful for further repair work.

Remove outlet



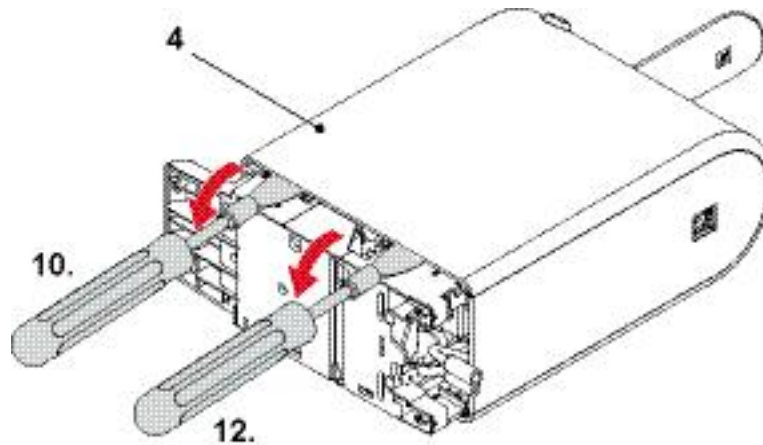
1. Open closing handle.
2. Press outlet (5) sideways by hand carefully.
3. Insert disassembly tool into gap between outlet and right side panel (4).

 The disassembly tool is necessary for removing outlet and side panels undamaged.

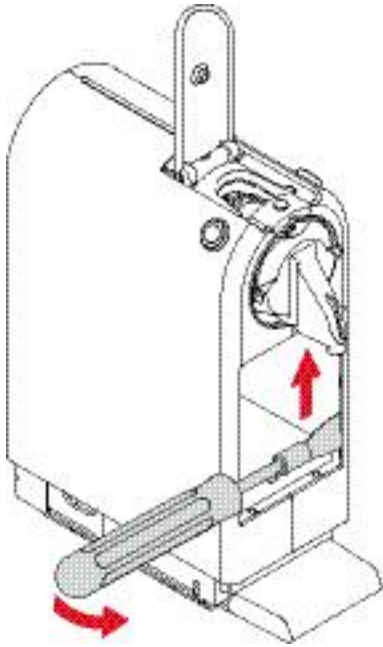


4. Hold and pull outlet.
5. At the same time move disassembly tool upwards.
6. Carefully turn disassembly tool slightly backward to open the latch.
7. Insert disassembly tool into gap on the other side of the outlet.
8. Move disassembly tool upwards and carefully turn it slightly backward to open the latch.
9. Remove outlet.

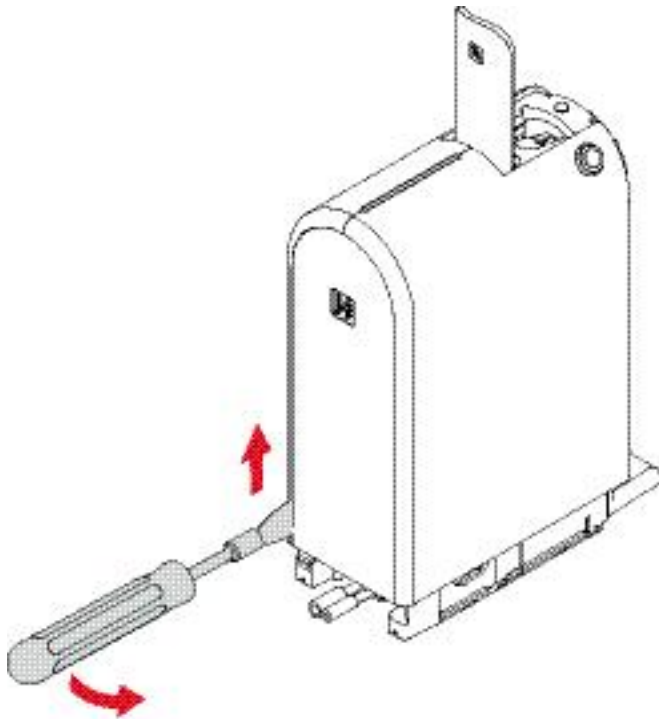
Remove right side panel




10. Insert disassembly tool between bottom of right side panel (4) and chassis.
11. Swivel disassembly tool till snap connection at the front opens.
12. Relocate disassembly tool and repeat procedure to open latch at the bottom of the side panel.

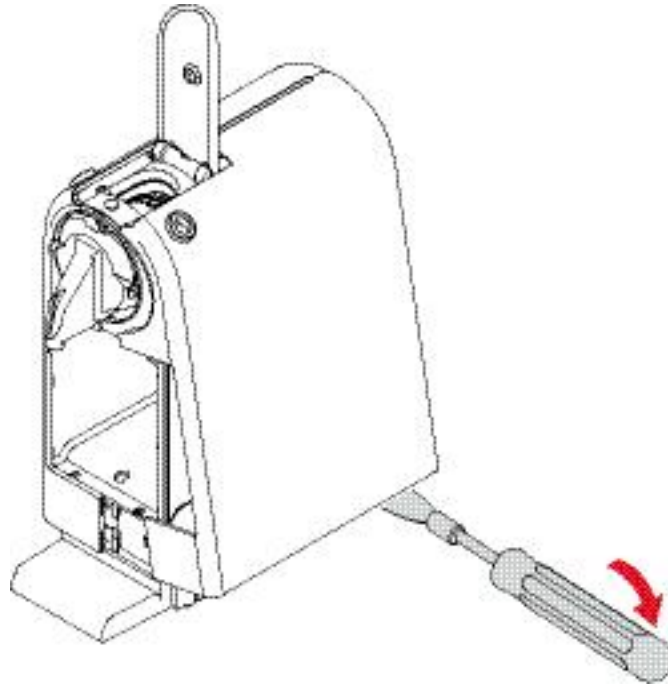


13. Insert disassembly tool laterally into gap at the front.
14. Carefully turn disassembly tool slightly forward to open the first latch.
15. Move disassembly tool upwards and open the other two latches the same way.



16. At the back insert disassembly tool into shadow gap of right side panel.
17. Swivel disassembly tool carefully to open first latch.
18. Move disassembly tool upwards and repeat procedure for the other 2 latches.

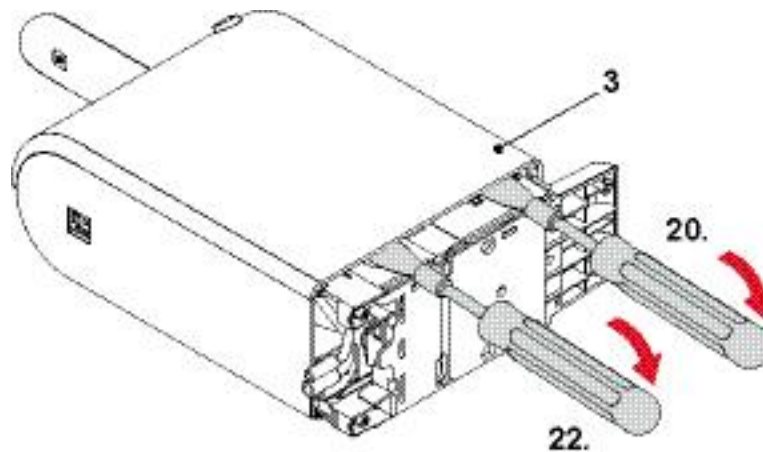
 Insert disassembly tool at right angles only. Otherwise the shadow gap can be damaged.



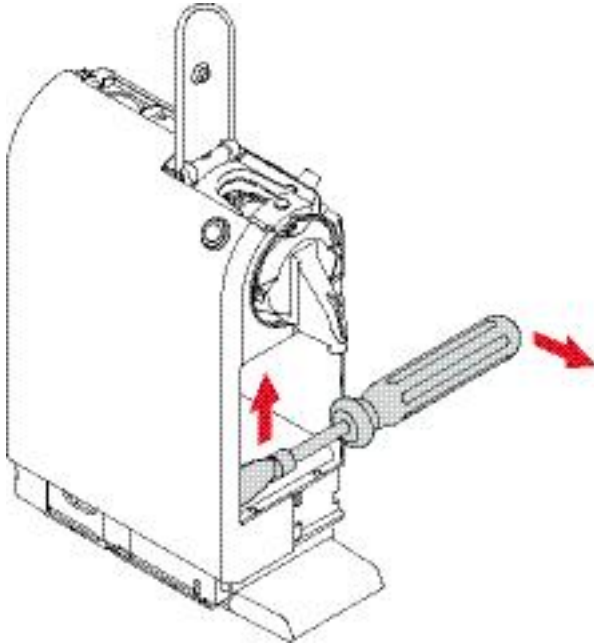
Closing handle must be opened.

19. Swing up and remove right side panel.

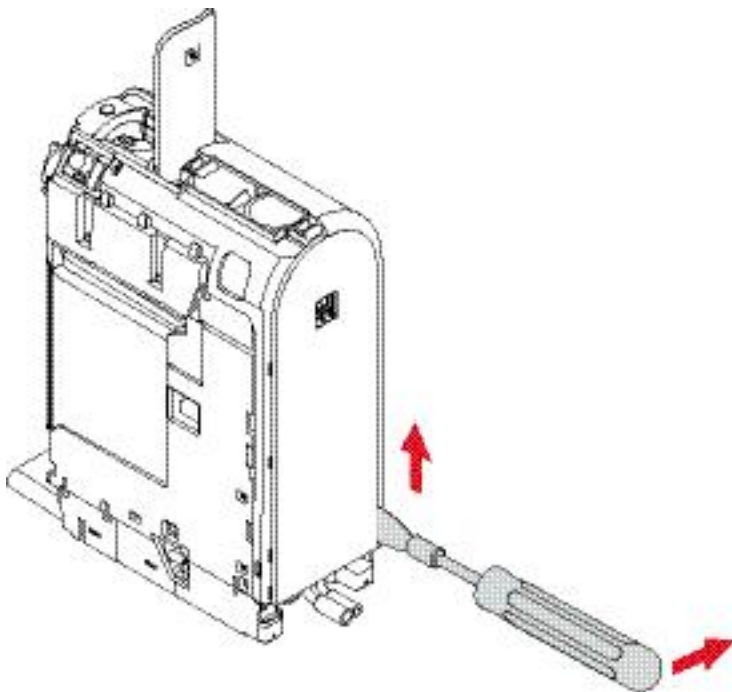
Remove left side panel




20. Insert disassembly tool between bottom of left side panel (3) and chassis.
21. Swivel disassembly tool till latch at the front opens.
22. Relocate disassembly tool and repeat procedure to open latch at the bottom of the side panel.

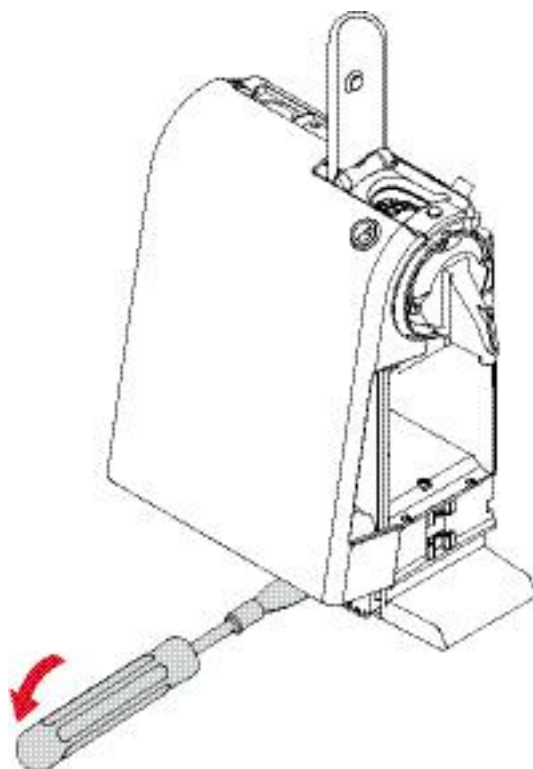



23. Insert disassembly tool laterally into gap at the front.
24. Carefully turn disassembly tool slightly forward to open the first latch.
25. Move disassembly tool upwards and open the other two latches the same way.



26. At the back insert disassembly tool into shadow gap of left side panel.
27. Swivel disassembly tool carefully to open first latch.
28. Move disassembly tool upwards and repeat procedure for the other 2 latches.

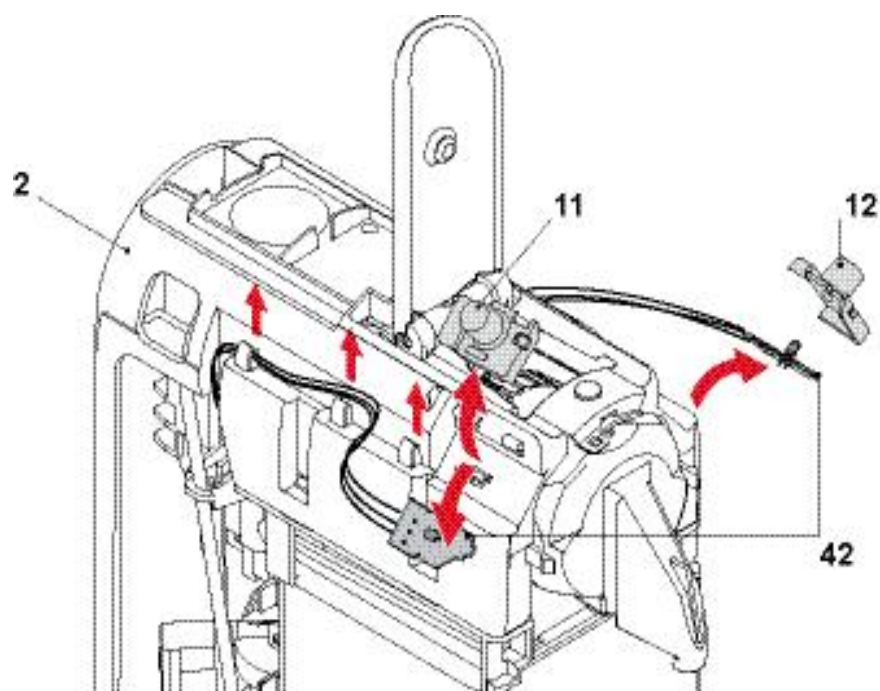
 Insert disassembly tool at right angles only. Otherwise the shadow gap can be damaged.



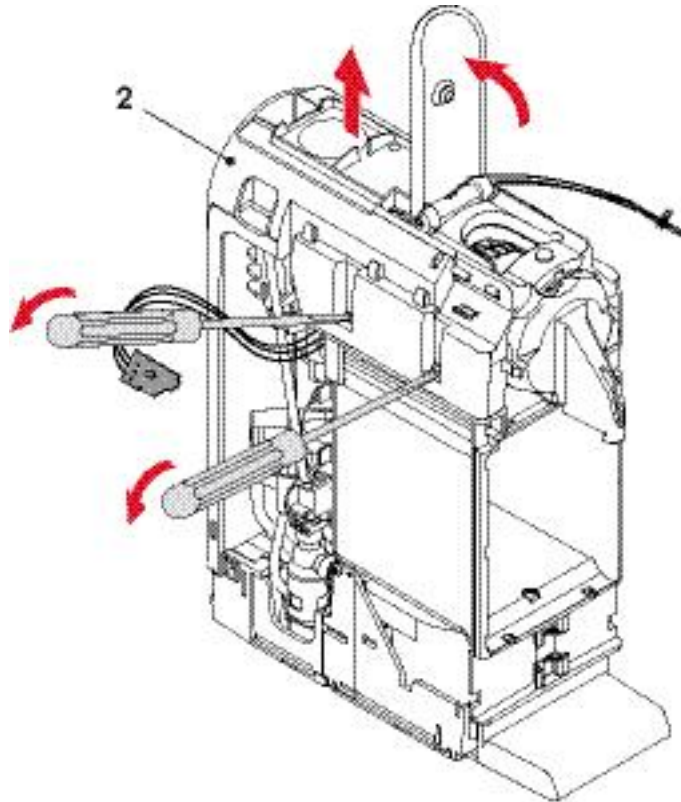
 Closing handle should be opened.

29. Swing up and remove left side panel.

Remove cover (2)

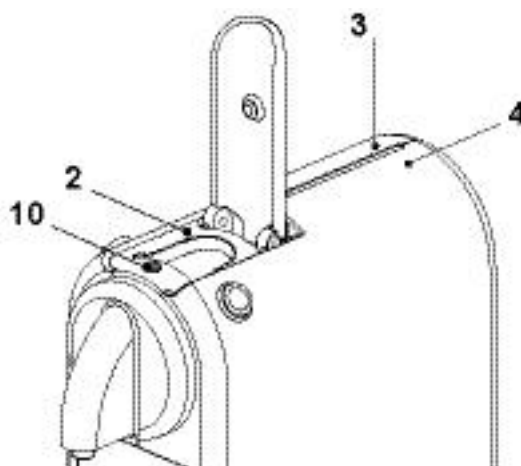


1. Remove both coffee buttons (11, 12) and prints (42) out of holder.
2. Remove wiring of coffee button prints from cable guides.



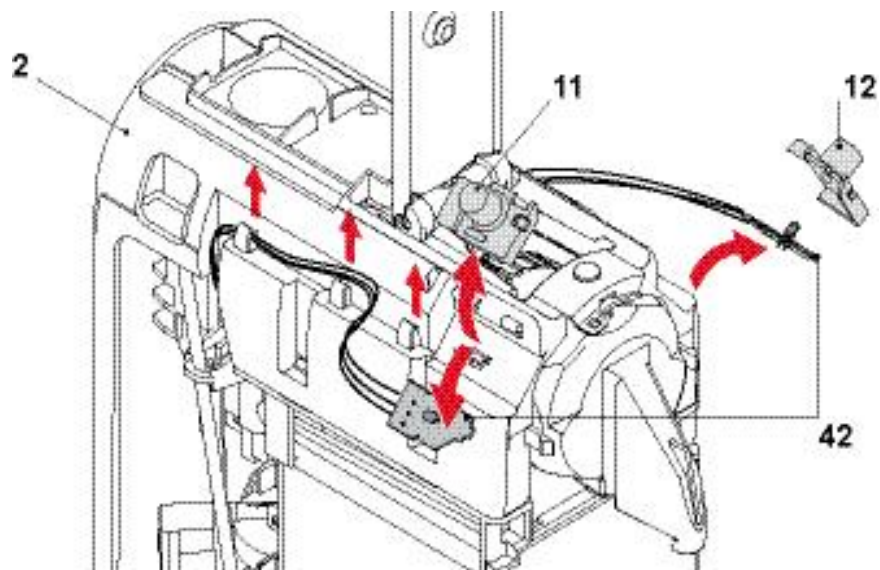
3. Use a screwdriver to release 4 latches.
4. Open closing handle.
5. Lift and remove cover (2).

Assembly checkpoints



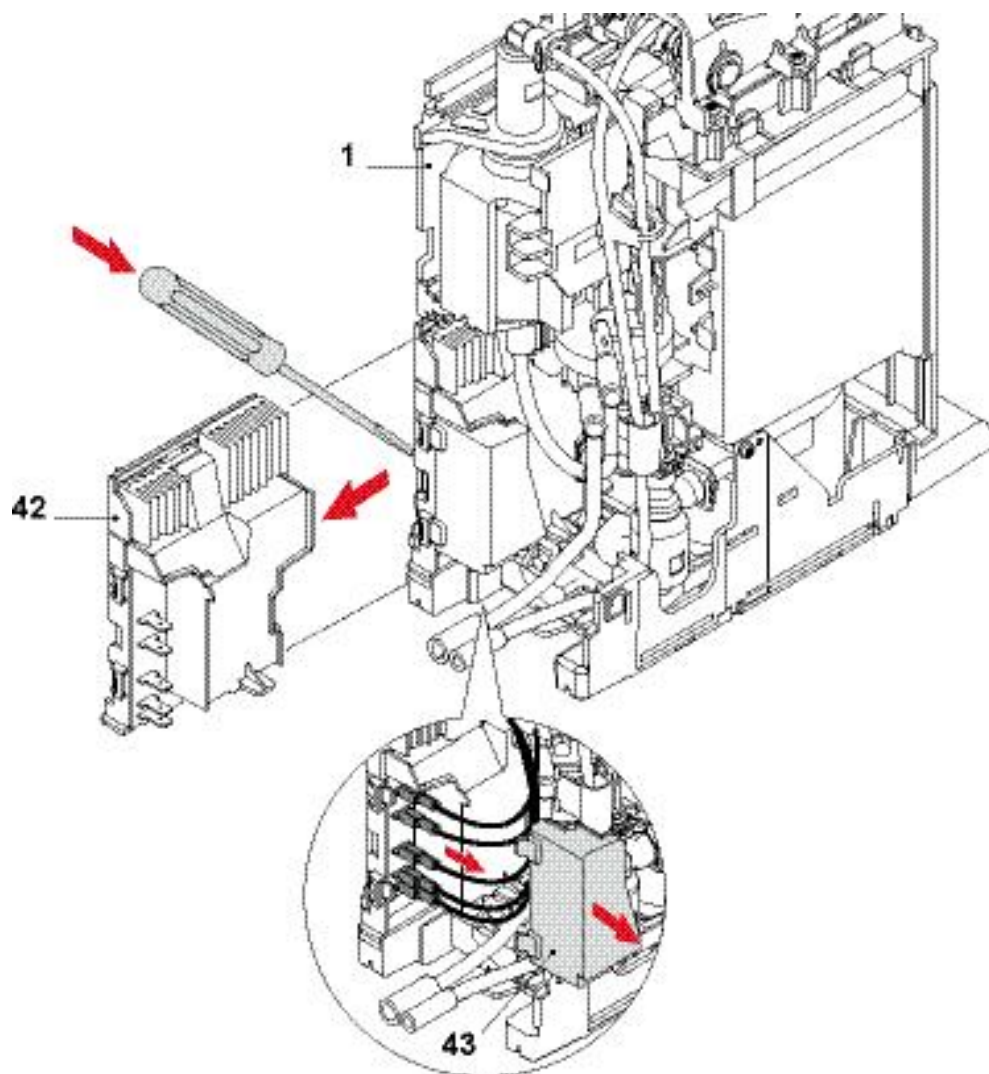
- Check if damper (10) for closing handle is installed on cover (2).
- For correct layout of the wires to the coffee button prints, see "Replacing electronic control board with button prints" on page 116.
- Assemble left side panel (3) first.
- Insert right side panel (4) into hinges at the top of the left side panel. Then fold down right side panel and click latches.
- Check that all latches are engaged.

8.8.2 Replacing electronic control board with button prints



- Refer to page 114 for removing cover (2).

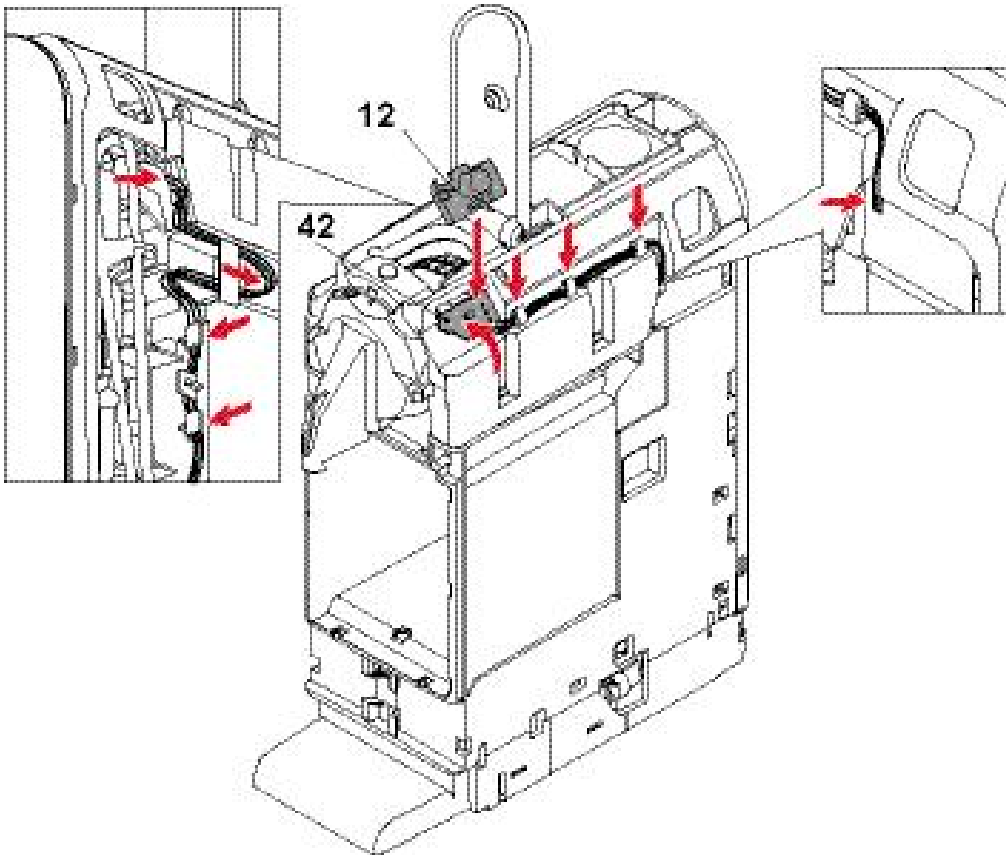
i The replacement board (42) is equipped with protective housing and cover.





- Remove first
 - NTC connector from electronic control board,
 - connector cable from flow meter,
 - electronic lid (43),
 - faston receptacles from electronic control board.
- Insert tip of screwdriver between chassis (1) and protective case of electronic control board (42) to release latches. Then pull out assembly.

Assembly checkpoints



- The left and right button prints (42) are marked with "L" or "R" for easy identification.
- After assembly check the plug arrangement of the mainboard (see "Wiring diagrams" on page 118 and following).
- Lay connection wires to button prints in brackets and cable guides like shown.

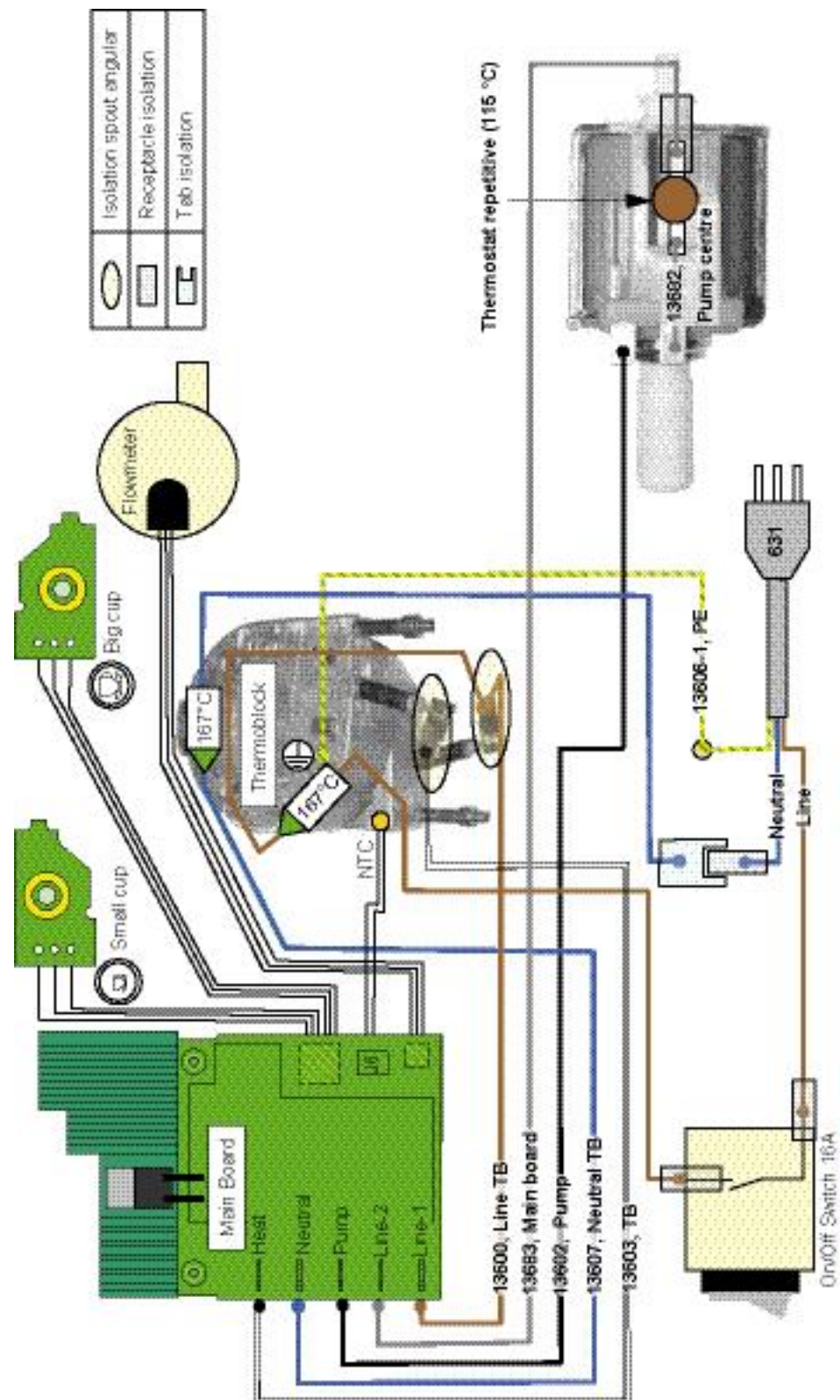


For installing and connecting a new electronic control board, the service technician must be earthed with a grounding band.

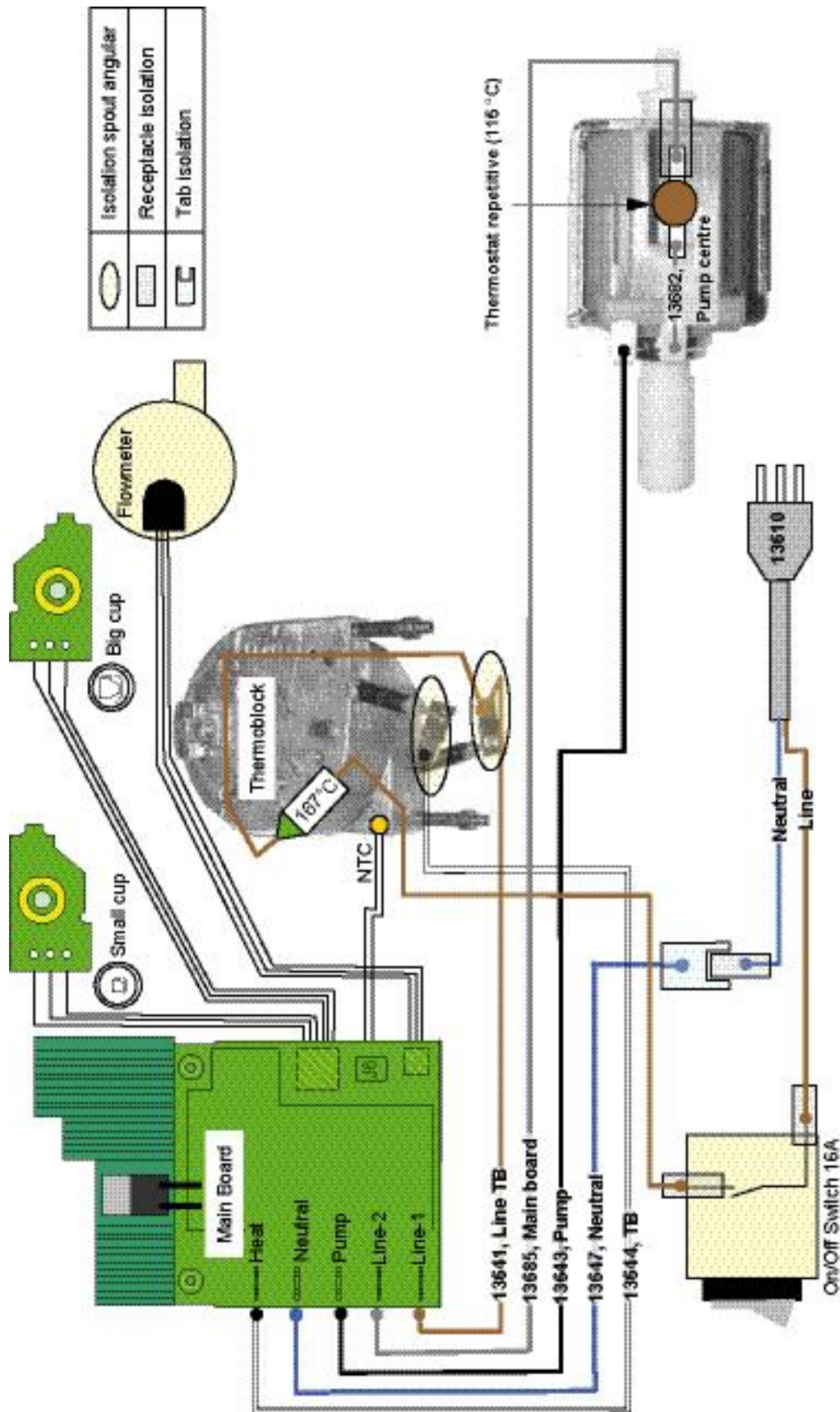
8.9 Wiring diagrams

8.9.1 Wiring diagrams - model Citiz

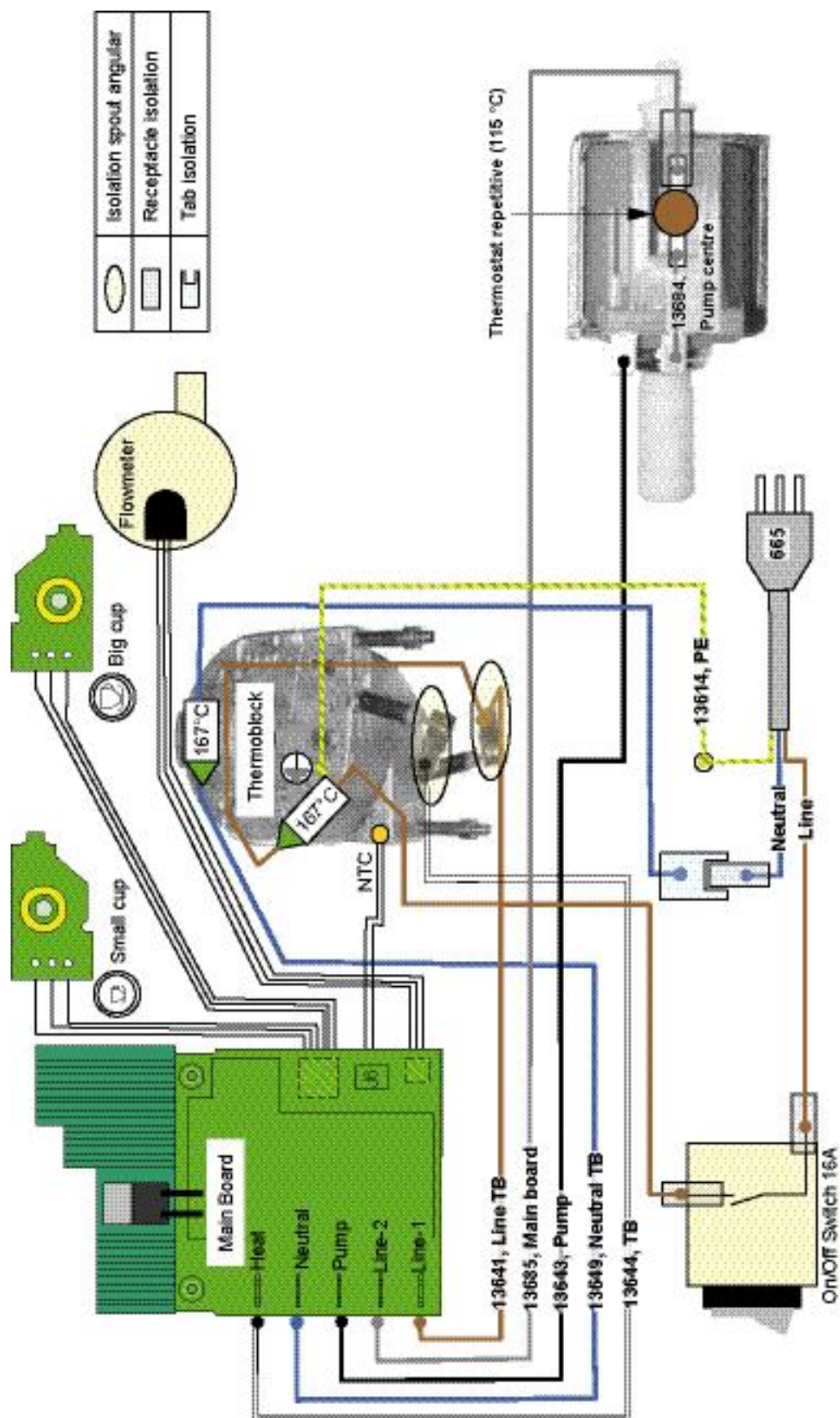
Wiring diagram 220 V - 240 V IEC - model Citiz, EF 483/484



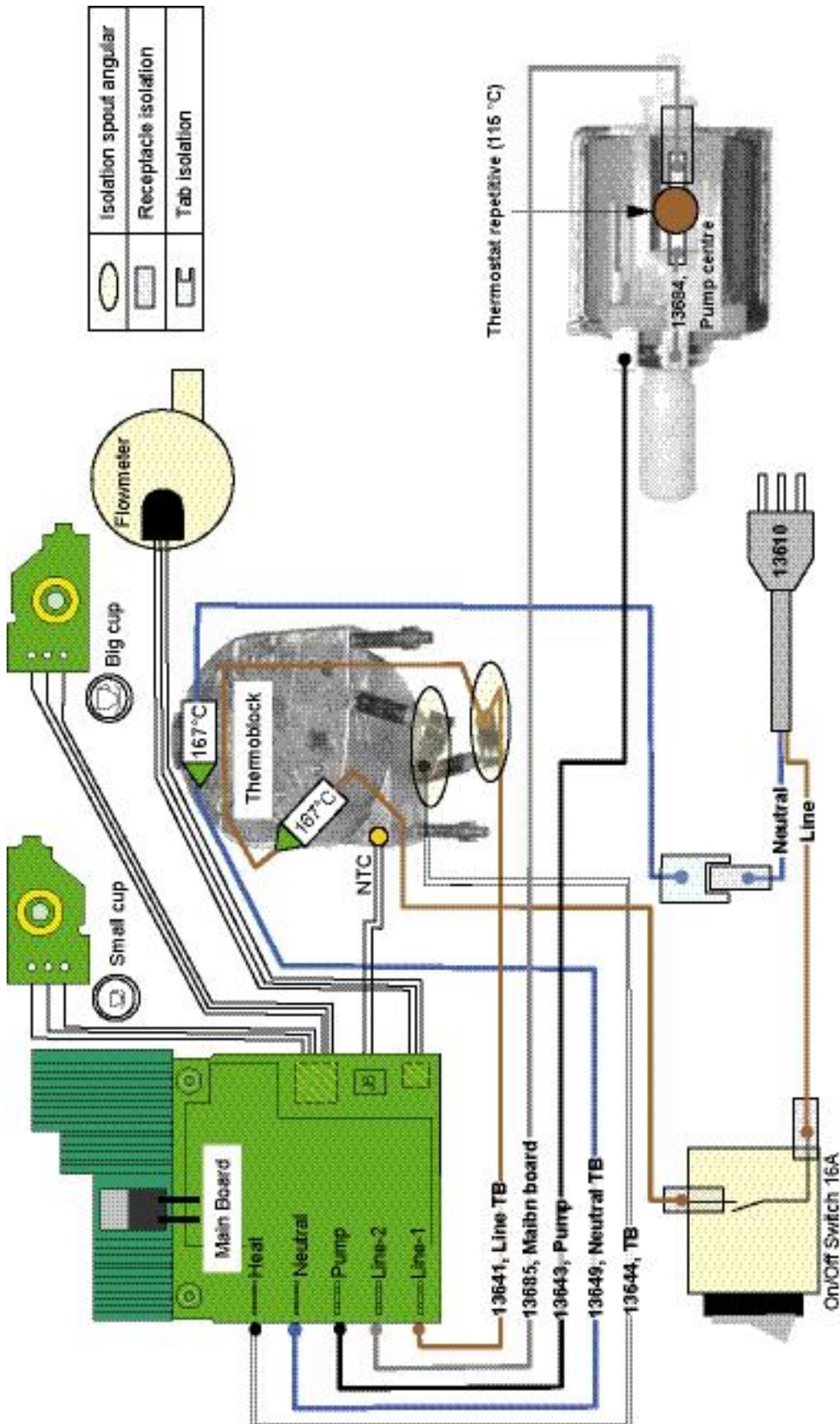
Wiring diagram 120 V UL (USA/Canada) - model Citiz, EF 483/484



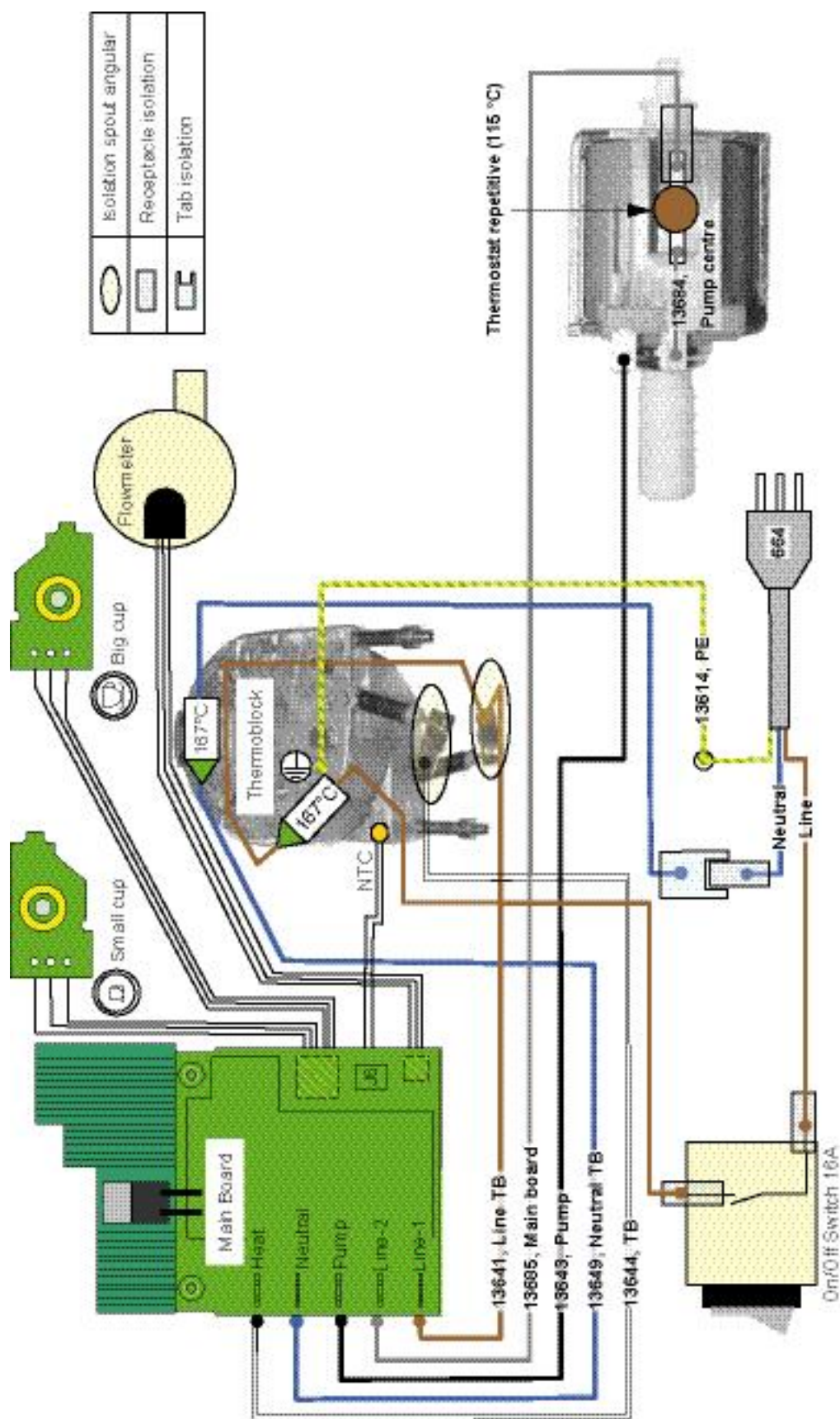
Wiring diagram 120 V - 127 V IEC (Brazil) - model Citiz, EF 483/484



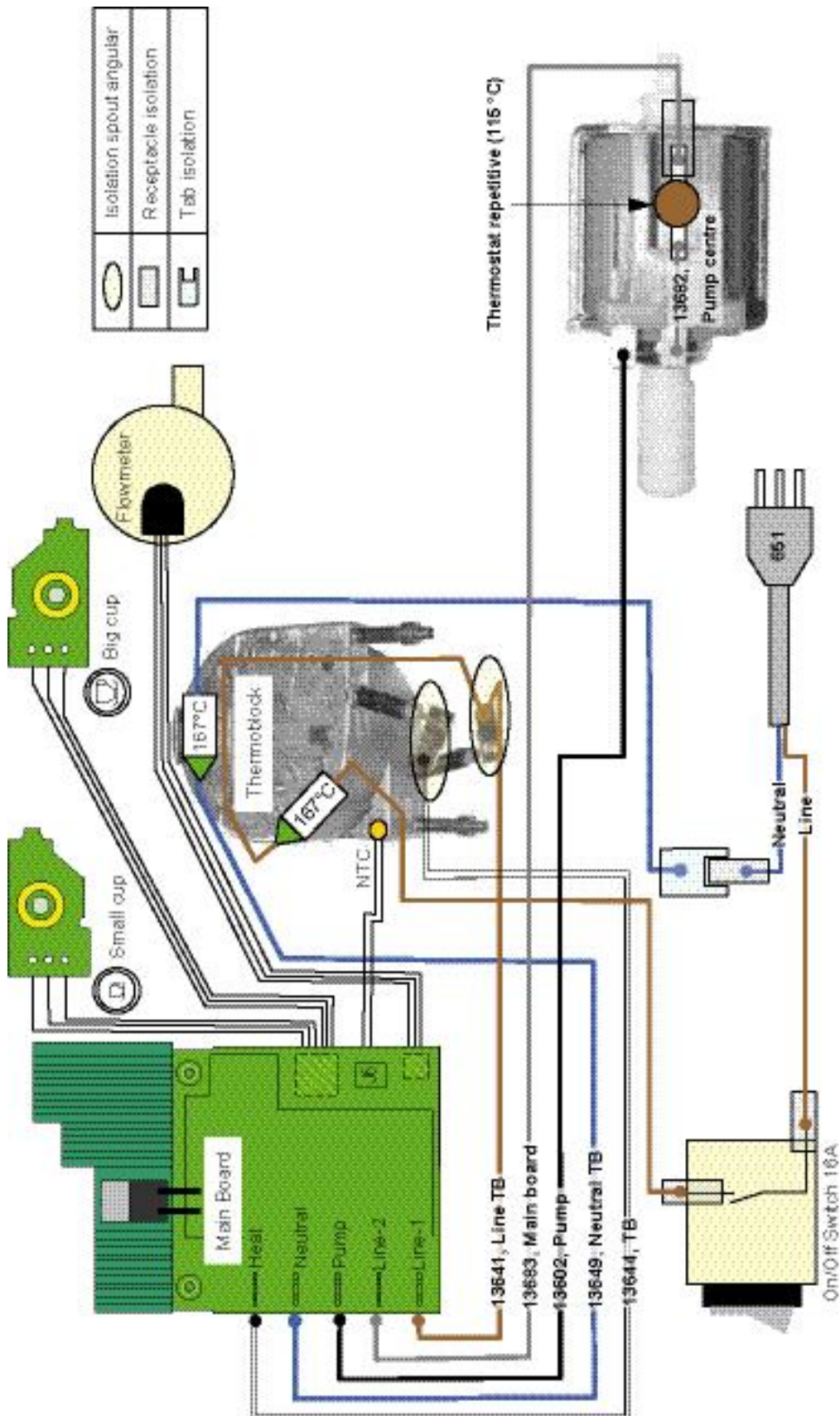
Wiring diagram 120 V - 127 V IEC (Mexico) - model Citiz, EF 483/484



Wiring diagram 110 V IEC (Taiwan) - model Citiz, EF 483/484

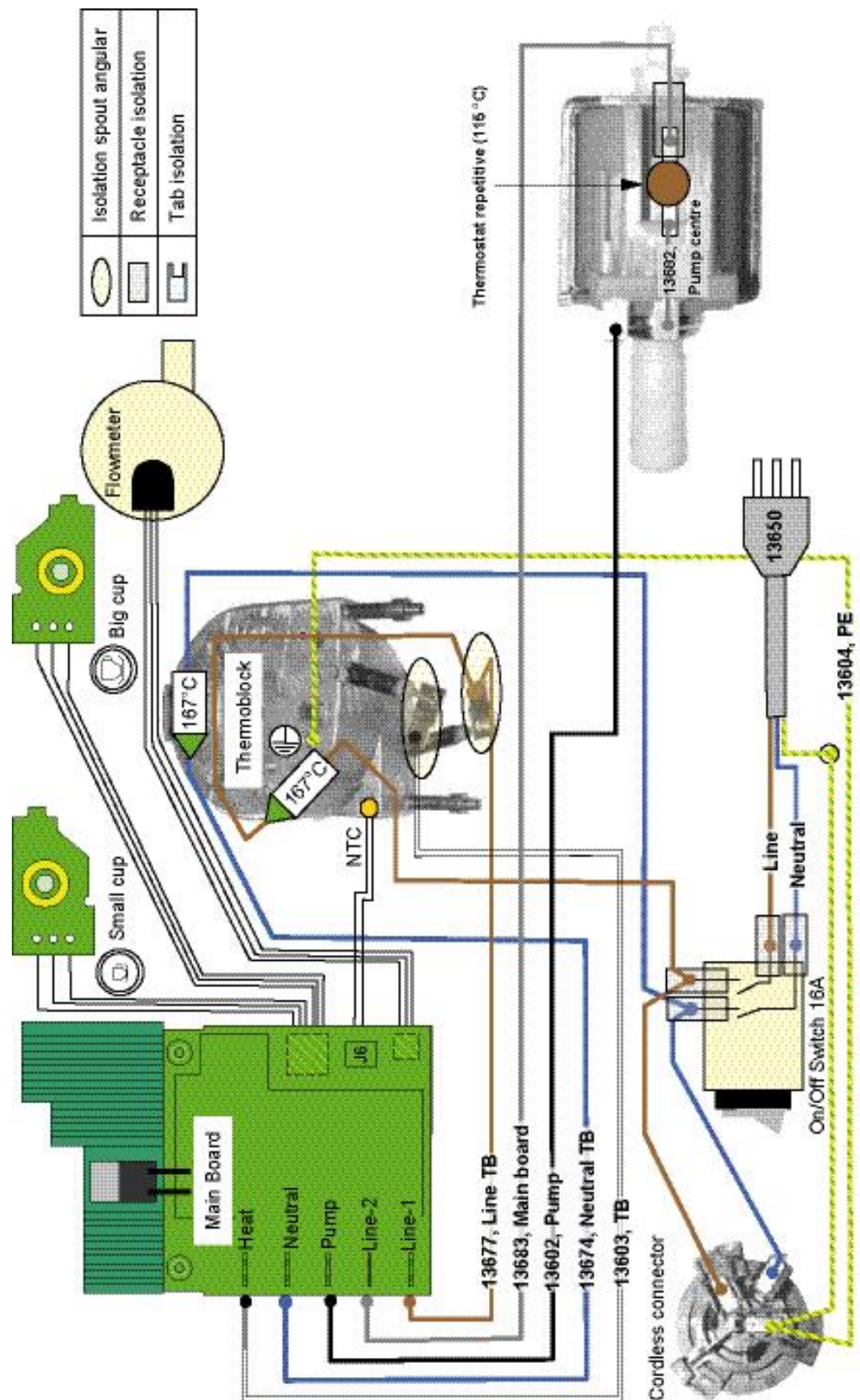


Wiring diagram 100 V IEC (Japan) - model Citiz, EF 483/484

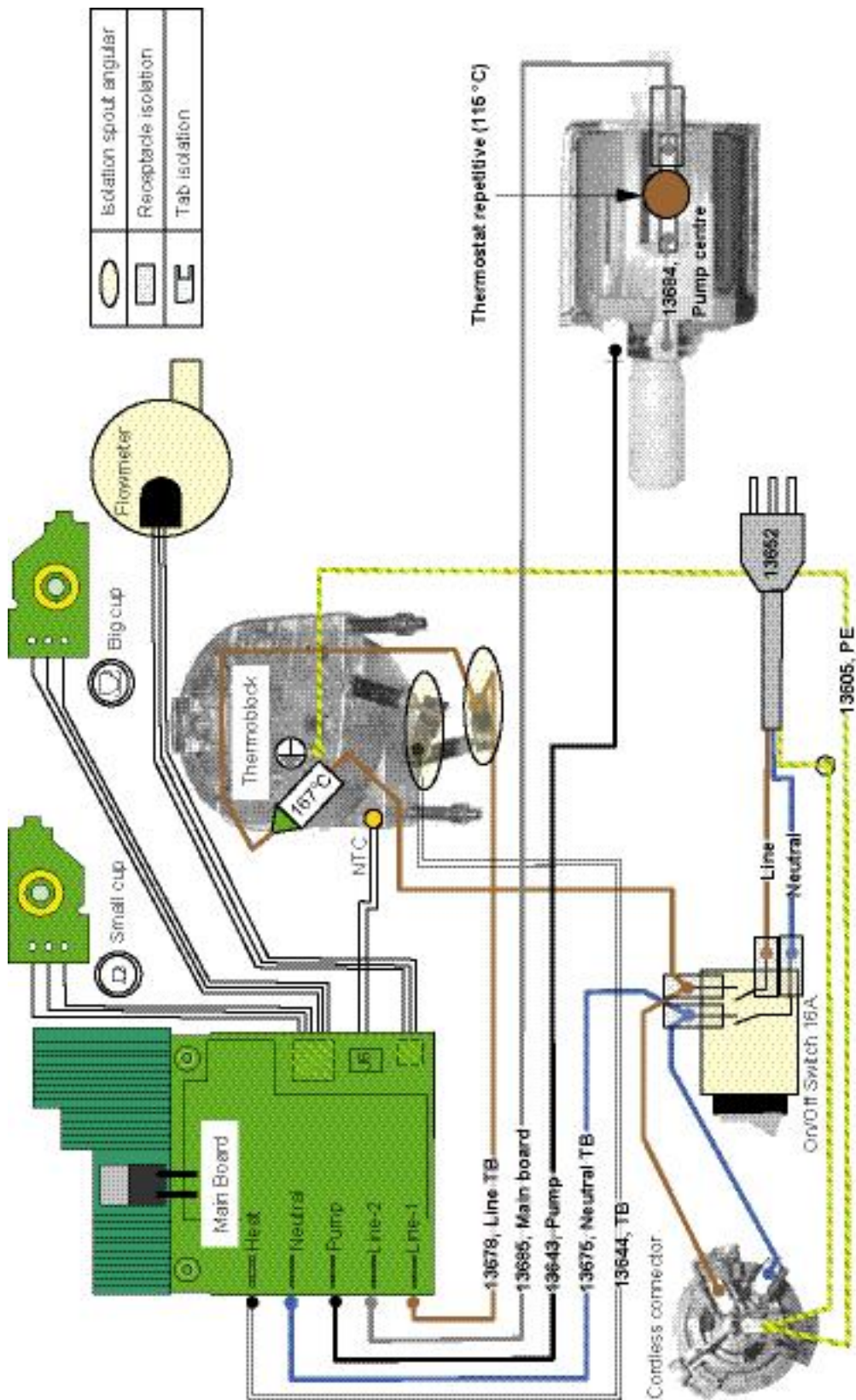


8.9.2 Wiring diagrams - model Citiz & milk, EF 485/486

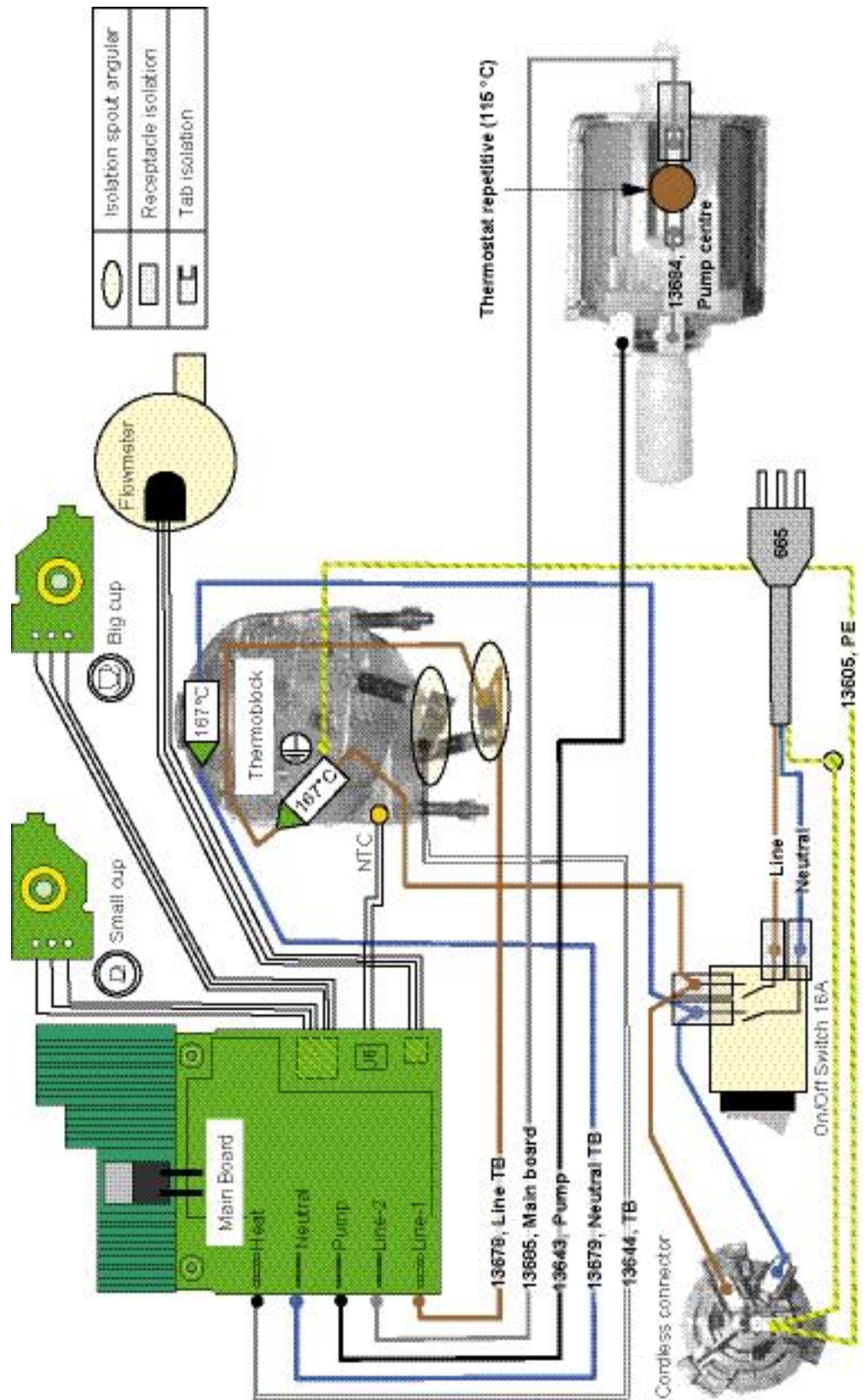
Wiring diagram 220 V - 240 V IEC - model Citiz & milk, EF 485/486



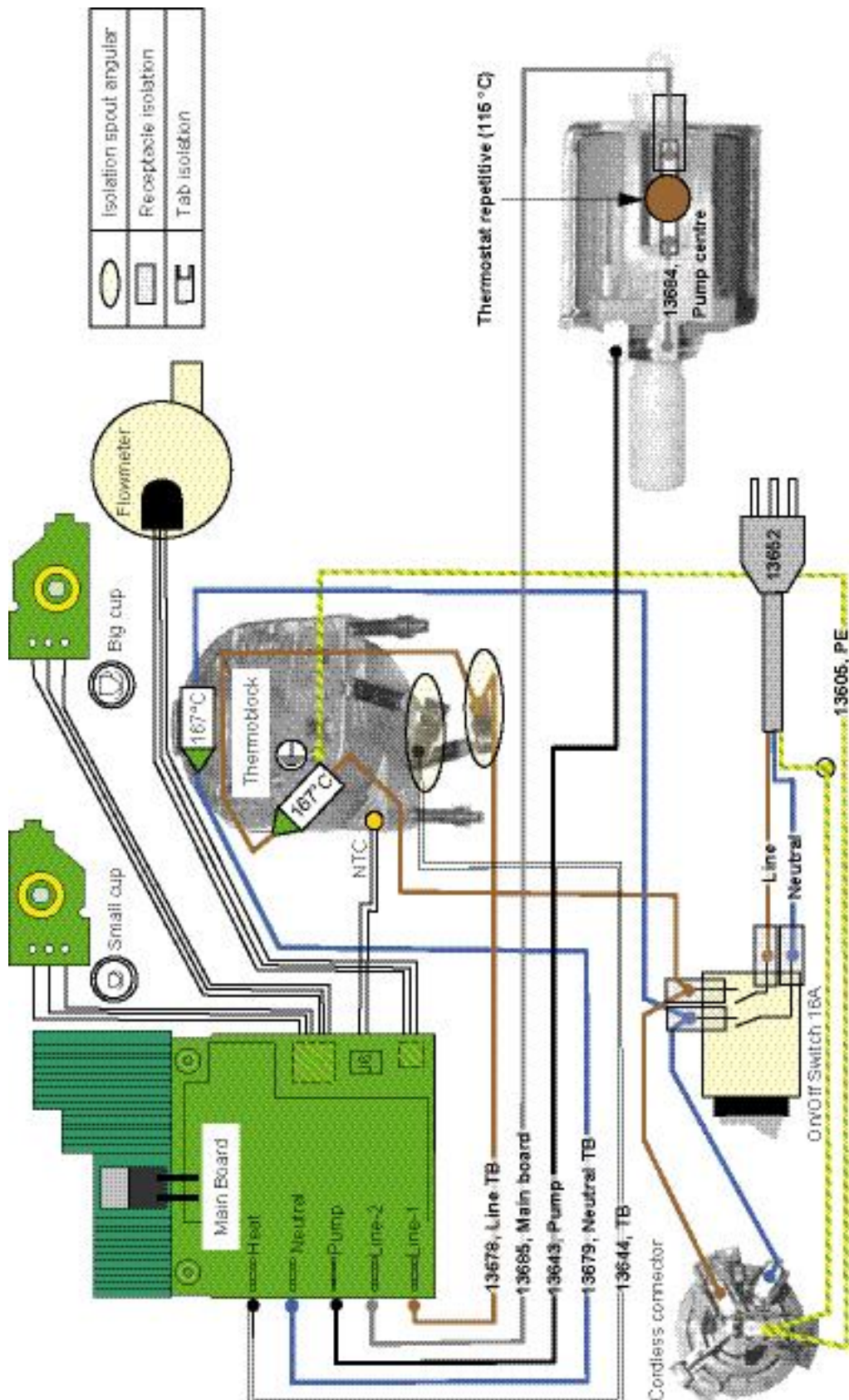
Wiring diagram 120 V UL (USA/Canada) - model Citiz & milk, EF 485/486



Wiring diagram 120 V - 127 V IEC (Brazil) - model Citiz & milk, EF 485/486

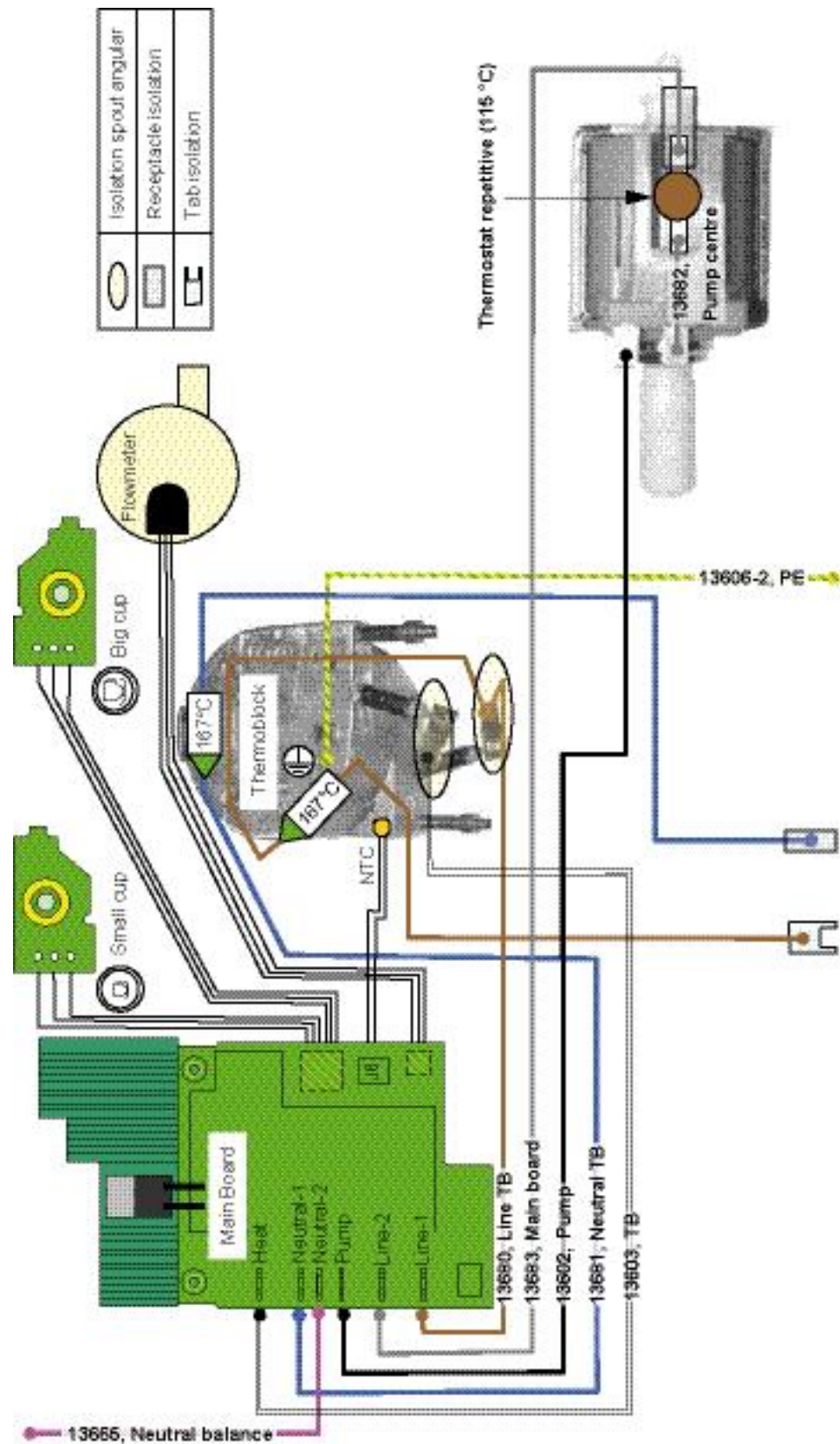


Wiring diagram 120 V - 127 V IEC (Mexico) - model Citiz & milk, EF 485/486



8.9.3 Wiring diagrams - model Citiz & Co, EF 487/488

Wiring diagram 220 V - 240 V IEC - core unit, model Citiz & Co, EF 487/488



[illegible]