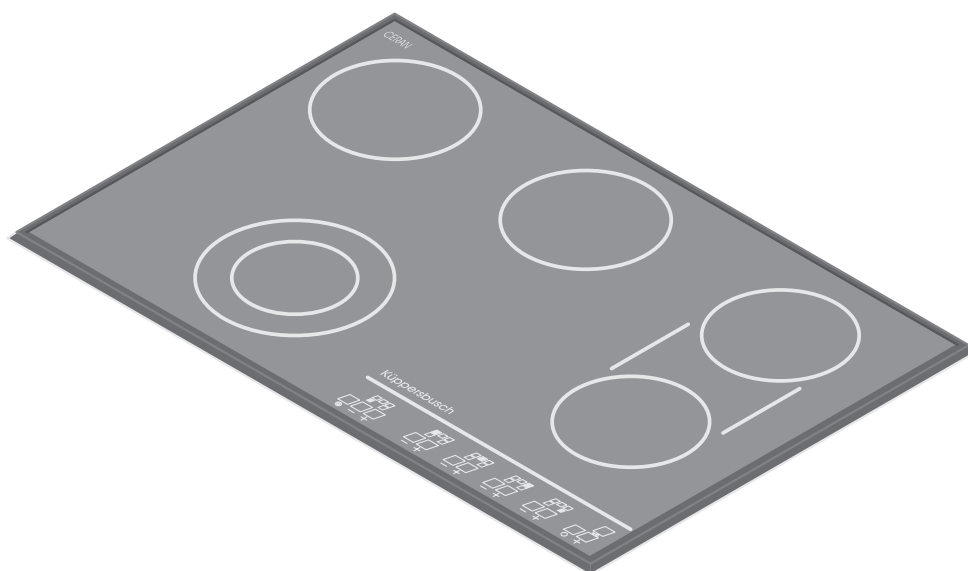
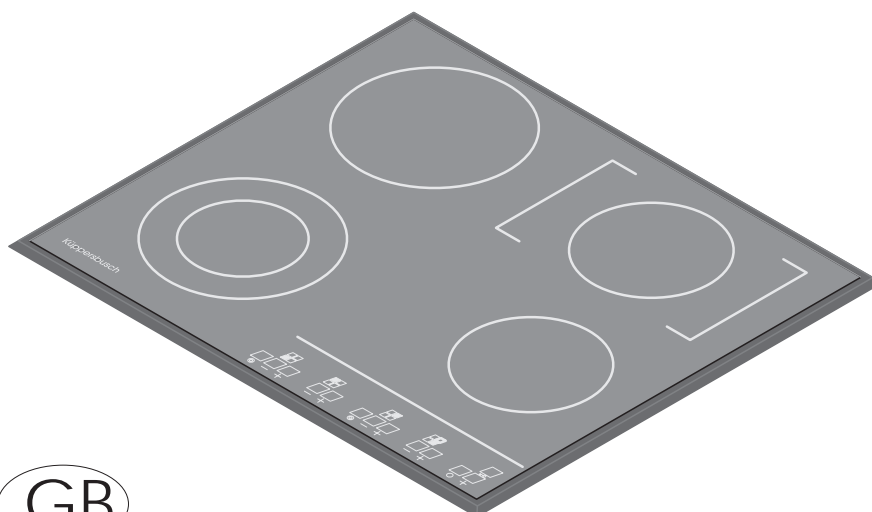


Glass ceramic hob unit with sensor touch control

EKE 854.1



EKE 804.2 / 604.2



VKS-H	Service Manual EKE 854.1 / EKE 804.2 / EKE 604.2	H1-50-01-02
Responsible: Rutz	Tel.: (0209) 401-733	Fax: (0209) 401-743
		Date: 26.05.1998

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Your appliance at a glance / Technical data EKE 854.1

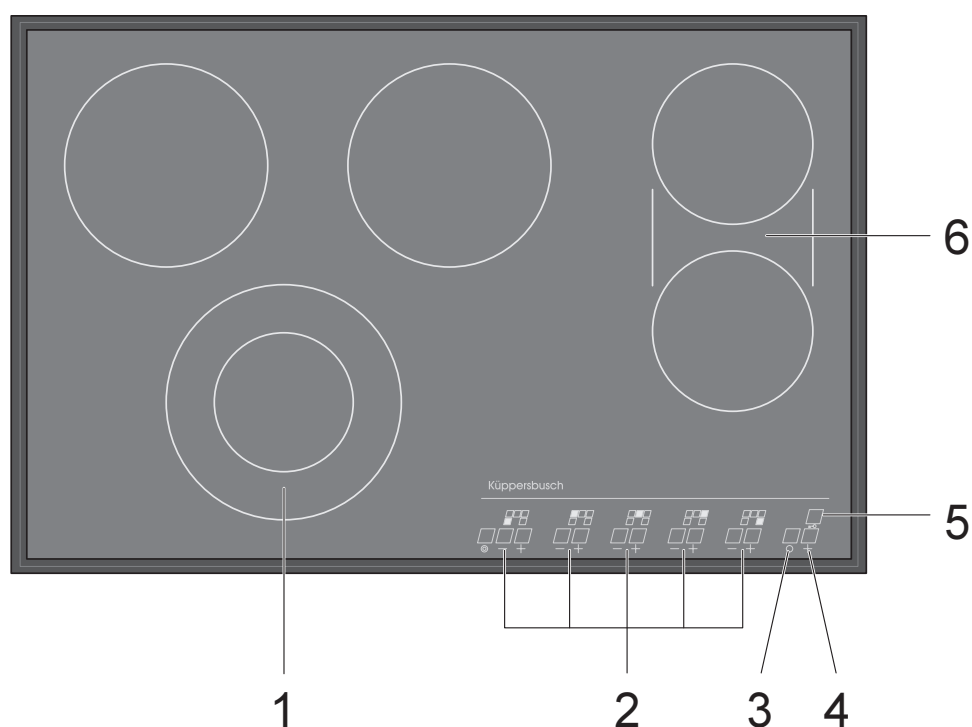
5 cooking zones

Total connected load: 8.2 kW

1 dual-circuit cooking zone 12 cm / 700 W or 18 cm / 1700 W

2 cooking zones 14.5 cm / 1200 W each (can also be used as frying zone 2400 W)

2 cooking zones 18 cm / 1800 W each



- 1 Dual-circuit cooking zone
- 2 Sensor keys for cooking zones
- 3 Off sensor
- 4 Sensor standby switch
- 5 Childproof lock (sensor lock)
- 6 Frying zone

Your appliance at a glance / Technical data EKE 804.2

4 cooking zones

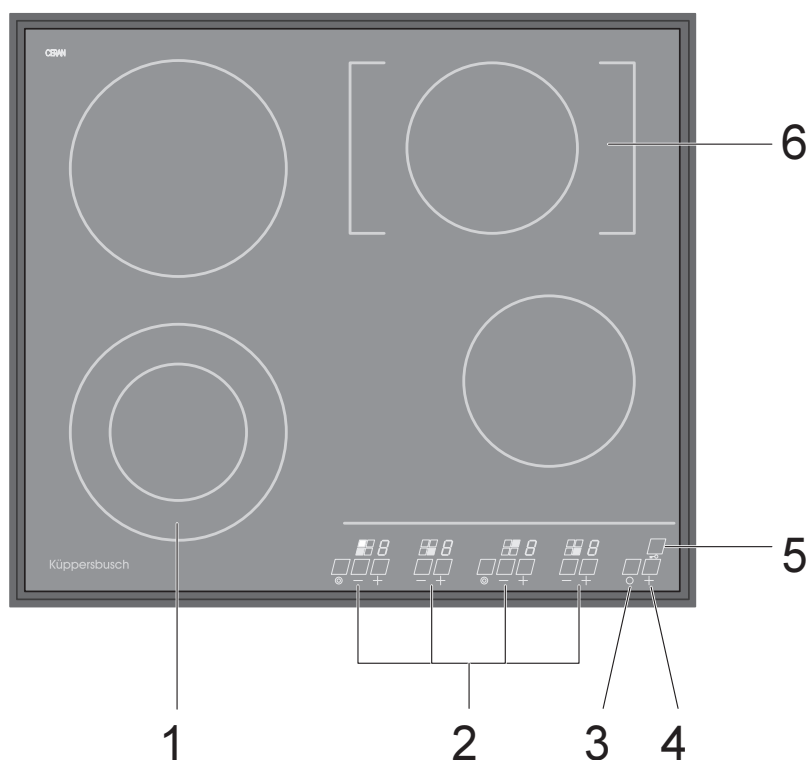
Total connected load: 7.2 kW

1 dual-circuit cooking zone 12 cm / 750 W or 21 cm / 2200 W

1 cooking zone 14.5cm / 1200 W

1 dual-circuit frying zone 14 cm / 1100 W or 24.0 cm/ 2000 W

1 cooking zone 18 cm / 1800 W



- 1 Dual-circuit cooking zone
- 2 Sensor keys for cooking zones
- 3 Off Sensor
- 4 Sensor standby switch
- 5 Childproof lock (sensor lock)
- 6 Frying zone

Your appliance at a glance / Technical data EKE 604.2

4 cooking zones

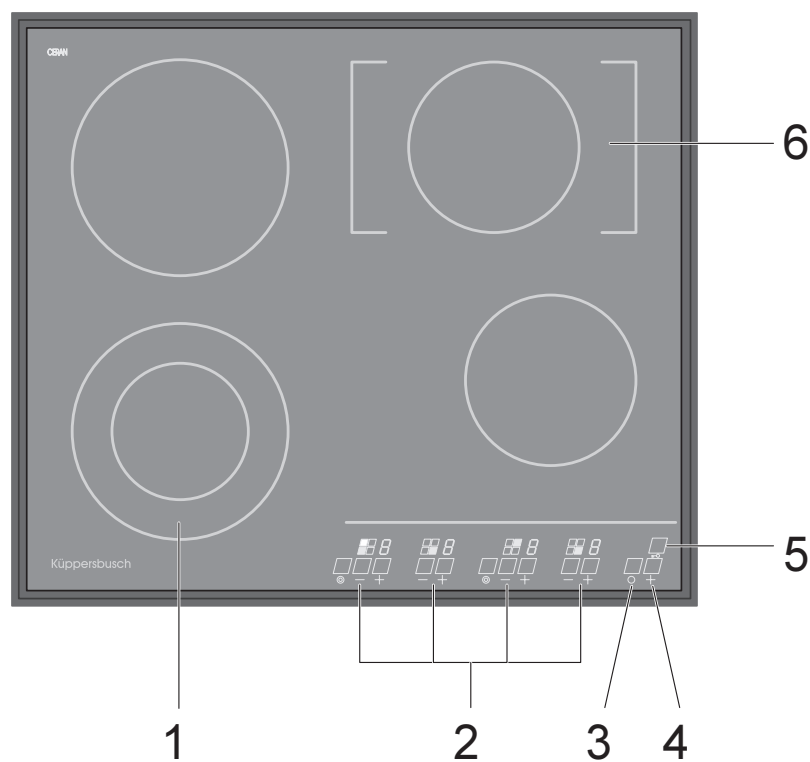
Total connected load: 6.7 kW

1 dual-circuit cooking zone 12 cm / 700 W or 18 cm / 1700 W

1 cooking zone 14.5cm / 1200 W

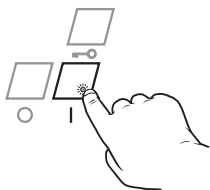
1 dual-circuit frying zone 14 cm / 1100 W or 24.0 x 14.0 cm/ 2000 W

1 cooking zone 18 cm / 1800 W



- 1 Dual-circuit cooking zone
- 2 Sensor keys for cooking zones
- 3 Off Sensor
- 4 Sensor standby switch
- 5 Childproof lock (sensor lock)
- 6 Frying zone

Using the cooking zones



Touch the sensor pad for approx. 2 seconds. The LED display above the pad will then light up and the appliance will go into operation (standby mode).

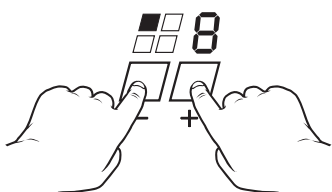
The standby mode automatically switches itself off, if

- no cooking zone is activated within 20 minutes (after 10 seconds an acoustic signal will indicate that the appliance will switch itself off after a further 10 seconds)

or if

- the appliance is not used for 10 minutes after starting operation.

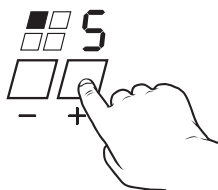
The cooking setting



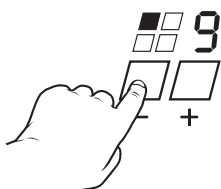
You have 9 cooking settings available.

Select the required cooking setting with the plus or minus pad. The setting will be indicated in the display.

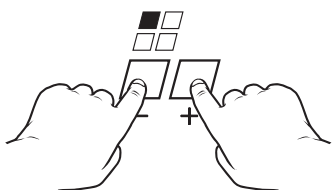
The "0" position is visible for about 2 seconds after the appliance switches off.



If you touch the plus pad, the cooking zone starts at cooking setting 5, without boost.



When the minus pad is touched the cooking zone will start at setting 9 and the automatic boost is automatically switched on.



Switching off a cooking zone:

Touch the plus and minus pads simultaneously.

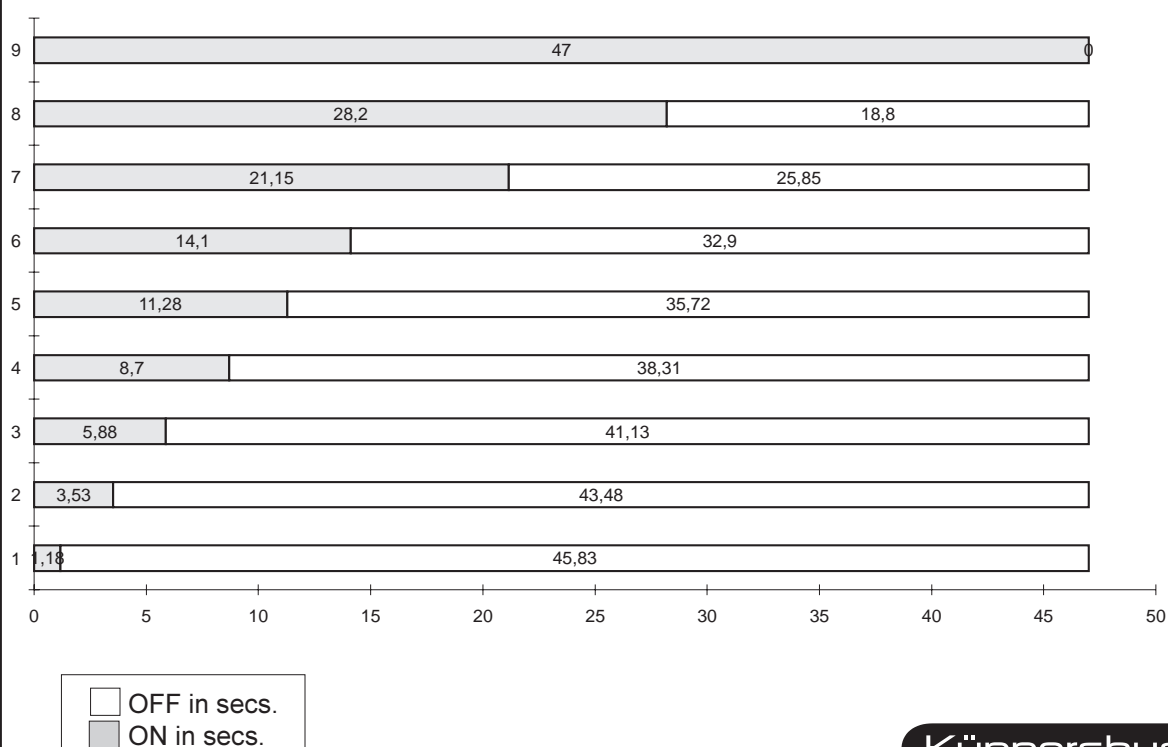
Operating time in seconds

The temperature of the cooking zones is time-adjusted, in the same way as the energy control unit. Depending on the cooking setting, the corresponding cooking zone will be switched on or off as described in the following table.

Cooking setting	1	2	3	4	5	6	7	8	9
ON in secs.	1	4	6	9	11	14	21	28	47
OFF in secs.	46	43	41	38	36	33	26	19	0

This means, for instance, that at cooking setting 6 the control unit is switched on for 14 seconds and is then switched off for 33 seconds. Thus the total amount of time is 47 seconds. Then the process starts again.

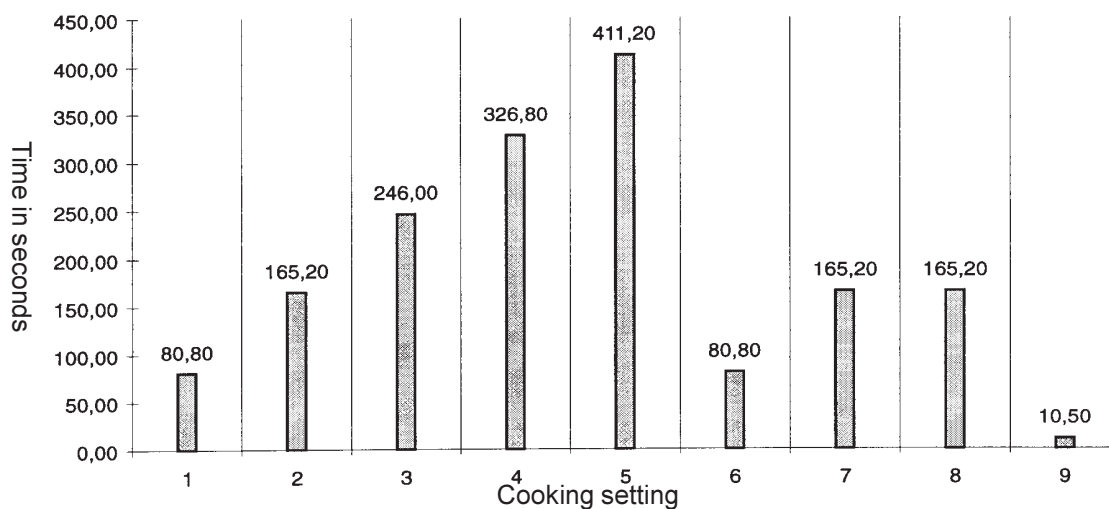
Operating time in seconds



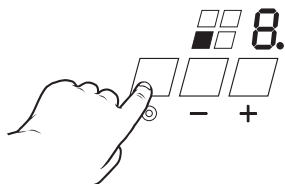
"A" lights up in the display alternately with the selected cooking setting until the boost has finished.

Cooking setting	1	2	3	4	5	6	7	8	9
Seconds	80	165	246	326	411	80	165	135	10
Minutes	1,3	2,7	4,1	5,4	6,8	1,3	2,7	2,2	0,0

Length of initial boost



Dual-circuit cooking zones and frying zones



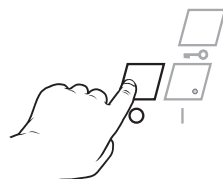
Usually the cooking zone with the smaller diameter heats up.

Switch on the outer cooking zone circuit for bigger saucepans or frying pans.

Press the cooking zone symbol next to the plus/minus pad. A dot at the bottom right of the display for the cooking level indicates that the function has been switched on.

Pressing the cooking zone symbol again deactivates the dual circuit cooking zone or frying zone.

The rapid switch-off function



All the cooking zones can be switched off quickly with the OFF sensor.

Time limit function (holiday function)

Depending on which cooking setting has been set for a cooking zone, the appliance will switch off automatically after a certain time if it is not used.

Cooking setting	Appliance switches off after
9 to 6	2 hours
5	3 hours
4	4 hours
3 to 2	5 hours
1	10 hours

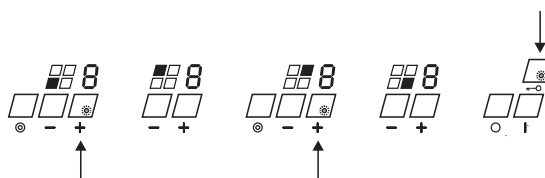
Childproof lock (sensor lock)



Operating the sensor lock prevents unauthorised persons from using the appliance. In order to activate this lock the hob has to be in operation.

Activating the lock:

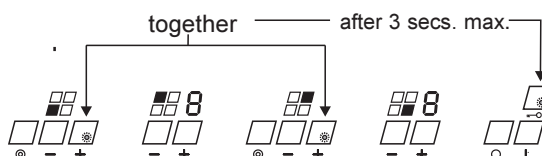
Press the sensor lock for 2 seconds. You may also switch on the lock while cooking. Then, however, you can only reduce the heat or switch off the hob.



The lock is indicated by 3 flashing control indicators.

Be careful: Switching off the hob does not deactivate the lock!

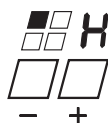
Deactivating the lock:



Simultaneously touch the pads under the two flashing control indicators on the left. After not more than 3 seconds touch the pad for the sensor lock.

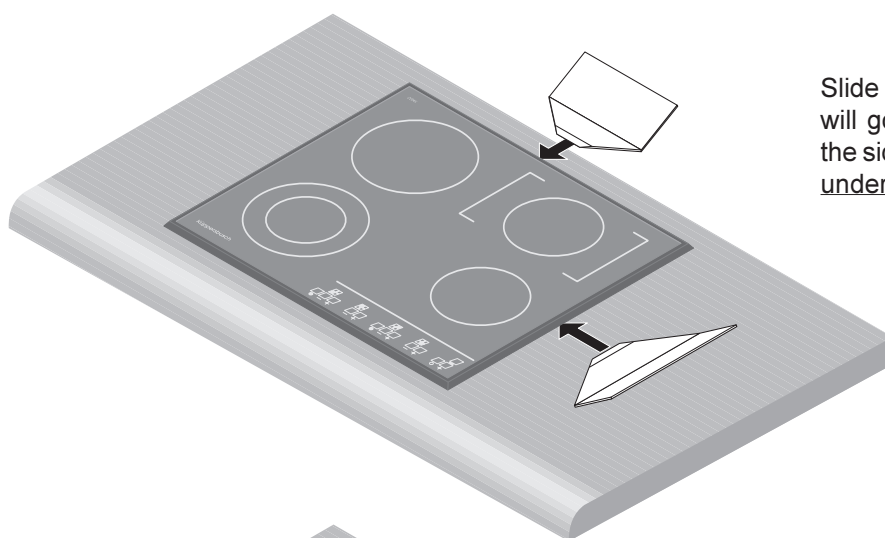
Note: When the power supply has been interrupted the childproof lock is no longer active.

Residual heat indicators

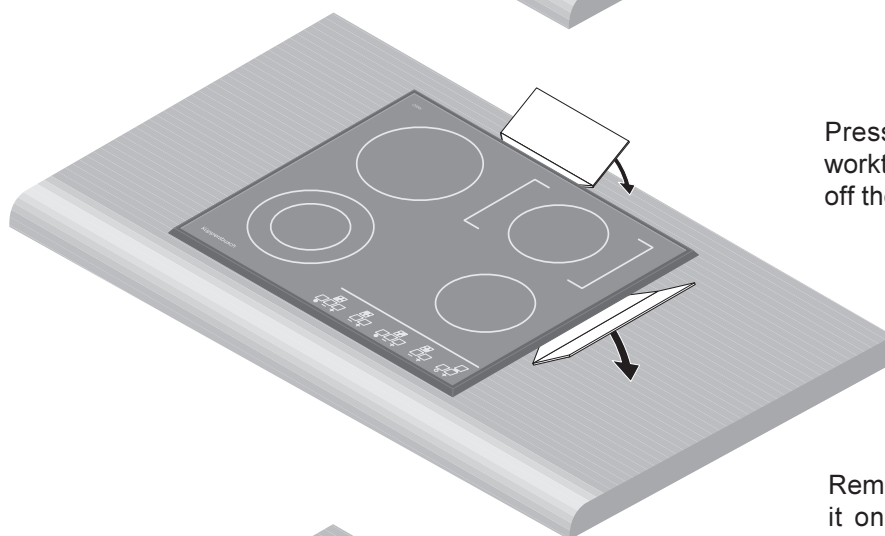


As long as the cooking zone is still hot, an "H" will appear in the display when the cooking zone has been switched off.

Disassembling the electric hob



Slide the lifter as far as it will go under the back or the sides of the hob (never under the front).



Press the lifter onto the worktop, the hob is lifted off the clips.



Remove the hob and put it onto the worktop. Do not forget to put an intermediate layer between the hob and the worktop to prevent the worktop from being scratched.

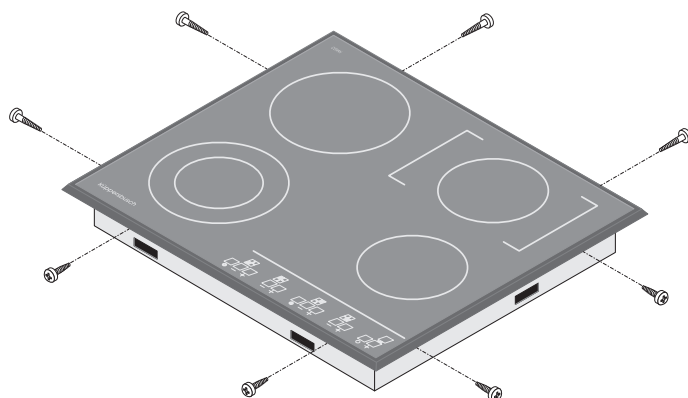
Changing the Touch Control unit

Electronic components and electronic modules are always sensitive to high voltage. The Touch Control unit is equipped with C-MOS-components which are very sensitive to electrostatic charging.



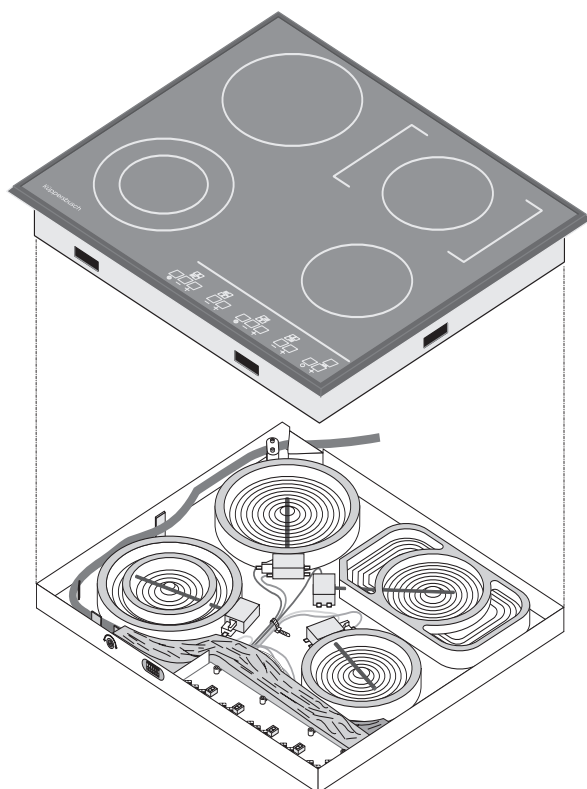
Equipotential bonding should be performed by simultaneously taking hold of the conductive protection bag of the Touch Control unit and the metal case of the hob. Do not move with it afterwards.

For this reason the Touch Control unit should be ready at hand!

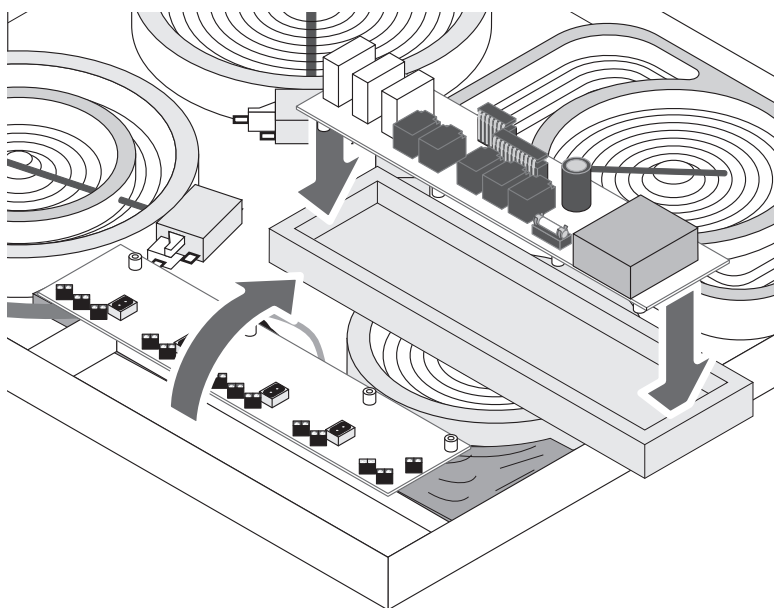


To exchange the Touch Control unit, you must remove the glass ceramic top. To do this unscrew the screws on both sides of the hob.

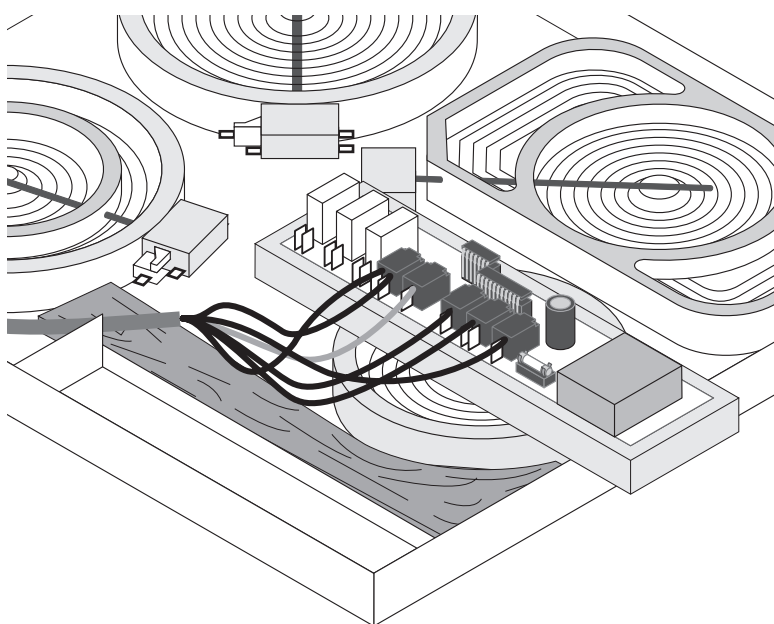
(In case of EKE 854.1 three screws have to be loosened at the front.)



Then the glass ceramic top can be removed by lifting it upwards.

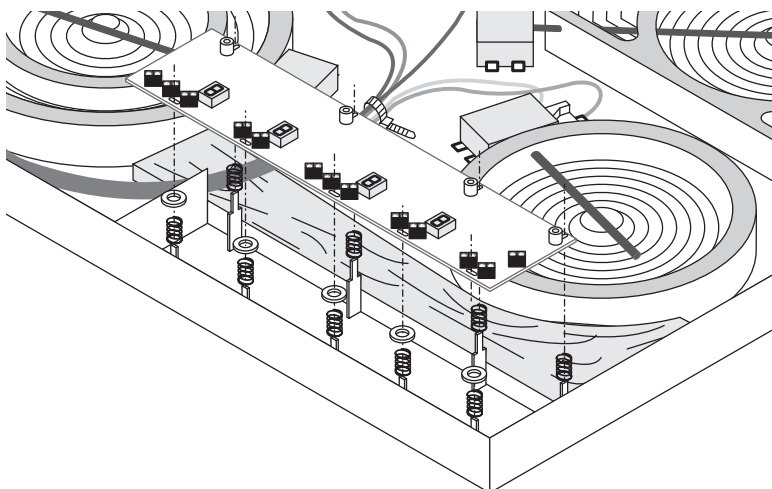


To exchange the connectors, remove the Touch Control unit, rotate it by 180° and place it on the assembly board as shown in the diagram.

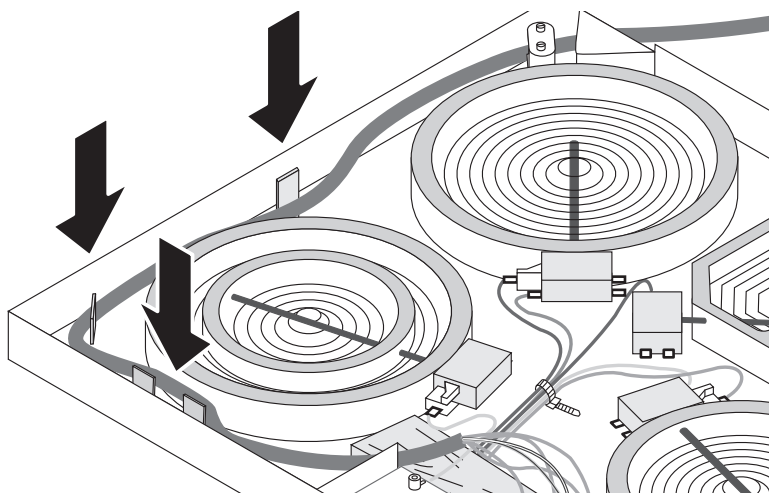


Insert the AMP plugs into the slots on the new Touch Control unit, making sure that they are in the right order.

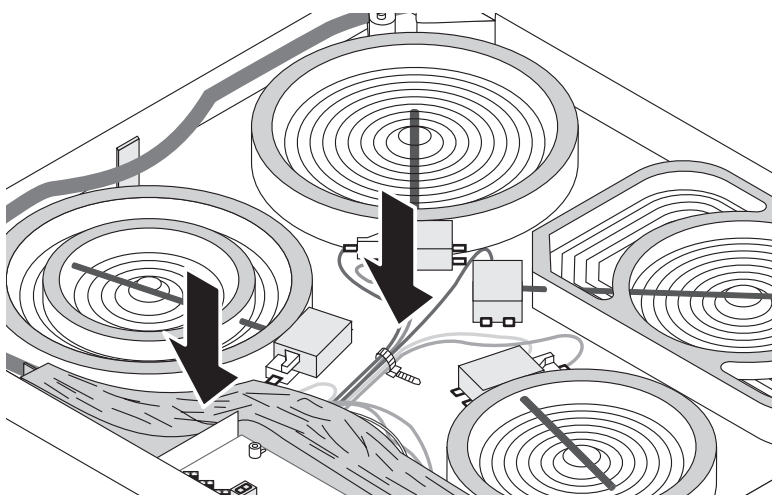
Installing the Touch Control unit



Before the Touch Control unit is installed, align the metal brackets. Make sure that all the *springs* are on the metal parts. Install washers in addition to the front springs.



Be certain that the cables are led around the metal parts provided for them, as shown in the diagram, and press them onto the base of the hob.



If assembly makes it necessary to loosen some of the cable binders, it is *essential* that these are replaced.

It is also important to make sure that the insulation material is put back into the correct positions.

Returning the Touch Control unit

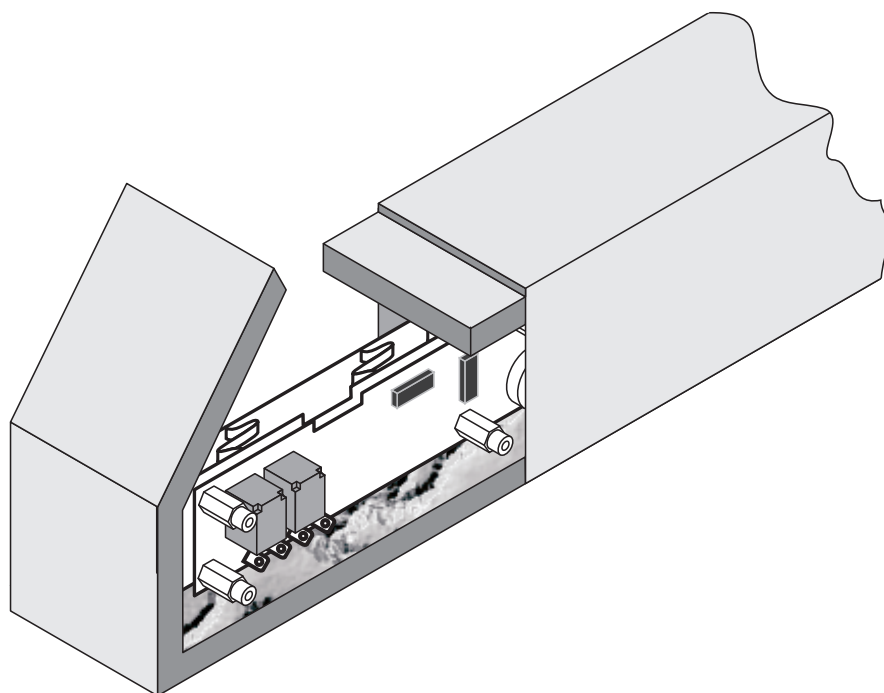
Electronic components must always be treated with care and specially protected during transport. Furthermore, we request you to be very careful when disassembling the components as they are recycled to save costs.

For this reason the following packing instructions must be observed:

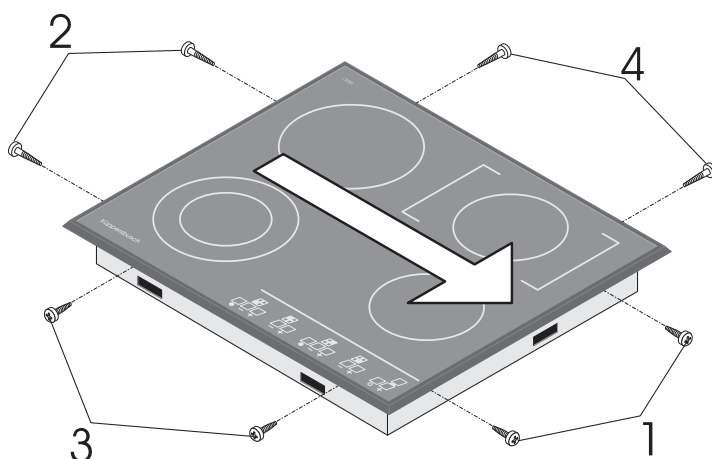
- Each electronic component must be packed separately in a cardboard box lined with nap foam.
- When returning electronic components, use only the original packaging in which they have been supplied. This packing material can also be obtained via our Spare Parts Department.
- Even if they have been properly packed, electronic components must not be thrown around.

Packing:

1. Put the unit into an antistatic flat bag, roll up the bag up and close it.
2. Put the unit with the bag onto the nap foam of the box in such a way that the printed circuit boards are in a vertical position.
3. Assemble the cardboard box, close it and seal with scotch tape.
4. It is very important that the box is marked with the green "R" sticker.



Aligning the glass ceramic hob

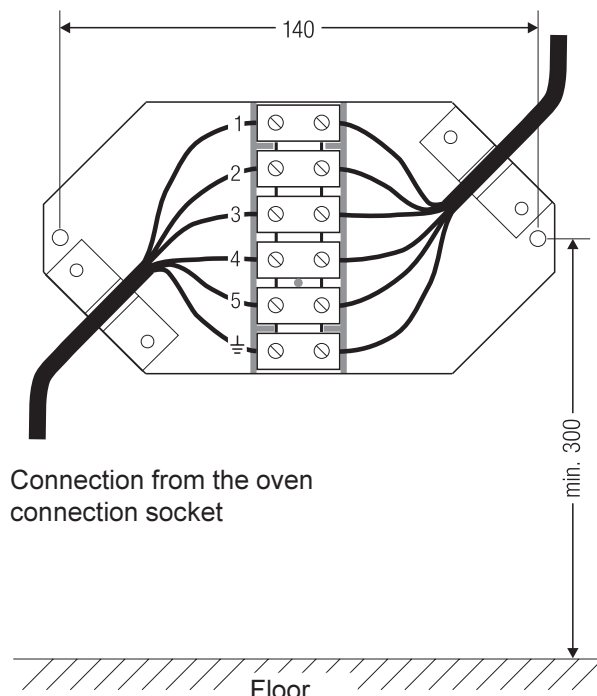


By skilfully tightening the screws (one screw, then the screw on the opposite side and so on) you can slightly adjust the position of the marked cooking zones on the glass ceramic top in relation to the heating spirals.

In the example illustrated the glass ceramic top would shift in the direction of the arrow if the screws are tightened in the specified sequence.

Electrical connection

- The built-in hob must be connected to the mains supply by a qualified electrician who is authorized to carry out such work.
- Both legal wiring regulations and the requirements of your local electricity supply board must be fully complied with.
- When connecting the hob, a device must be provided which enables all-pole disconnection of the hob from the supply with a gap construction of at least 3 mm. Circuit breakers, fuses and contactors are considered to be suitable disconnecting units.
- When connecting and repairing the appliance disconnect it from the electricity supply with one of these devices.
- Overall protection against electric shock must be ensured by the installation.
- The earthed conductor lead must be sufficiently long so that, in the event of failure of the strain relief, it is not subjected to strain until after the live wires of the connection cable.
- Any superfluous cable must be removed from the installation area beneath the appliance.



Connection from the oven
connection socket

At the factory the electronic hob has been equipped with a temperature-proof cable with a connecting box for the oven connection cable.

The connecting box is fastened to the kitchen wall behind the built-in furniture.

If there is no built-in oven below the hob, the connecting box can also be fastened to the furniture below the hob.

- When assembling the connecting box remember that it must be at least 300 mm from the floor, as shown in the drawing.
- The connecting box must not come into contact with any hot appliance parts.
- The connecting box must not be used as a voltage distributor for other appliances.
- The fitted connection cable must be replaced by the **Küppersbusch** Customer Service if it becomes damaged.
- The appliance is connected to the mains at the connecting box as shown in the wiring diagram.

Electrical connection

Permanent connection by means of an oven connection socket.

Connection diagram

Is depicted on the connecting box of the appliance, suitable for the various types of mains.

Connection data

Permanent connection 400 V 3 N ~ 50 Hz (AC 230 V in UK).

Voltage of heating elements: 230 V

Total connected load 6.7kW

400 V 3 N ~ fuse rating 16 A

400 V 2 N ~ fuse rating 20 A

230 V 1 N ~ fuse rating 25 A

230 V 3 ~ fuse rating 16 A

Connection cable

Use H 05 RR-F or H 07 RN-F.

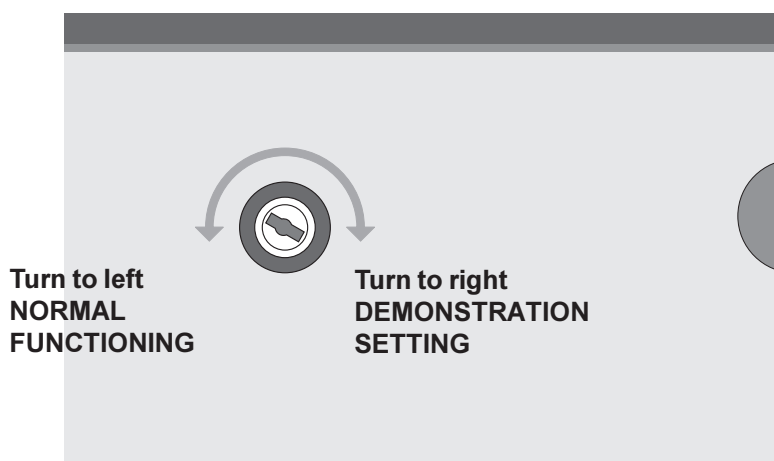
Cable length as required.

Küppersbusch

THE HEART OF A GOOD KITCHEN

Demonstration setting

When the demonstration setting is activated, the glass ceramic hob can be operated normally, but all the heating elements will remain cold.



To activate the demonstration setting carefully turn the rotary-type switch on the side of the hob base with a screwdriver as far as it will go to the right.

For normal operation carefully turn the switch as far as it will go to the left.

Troubleshooting and remedies



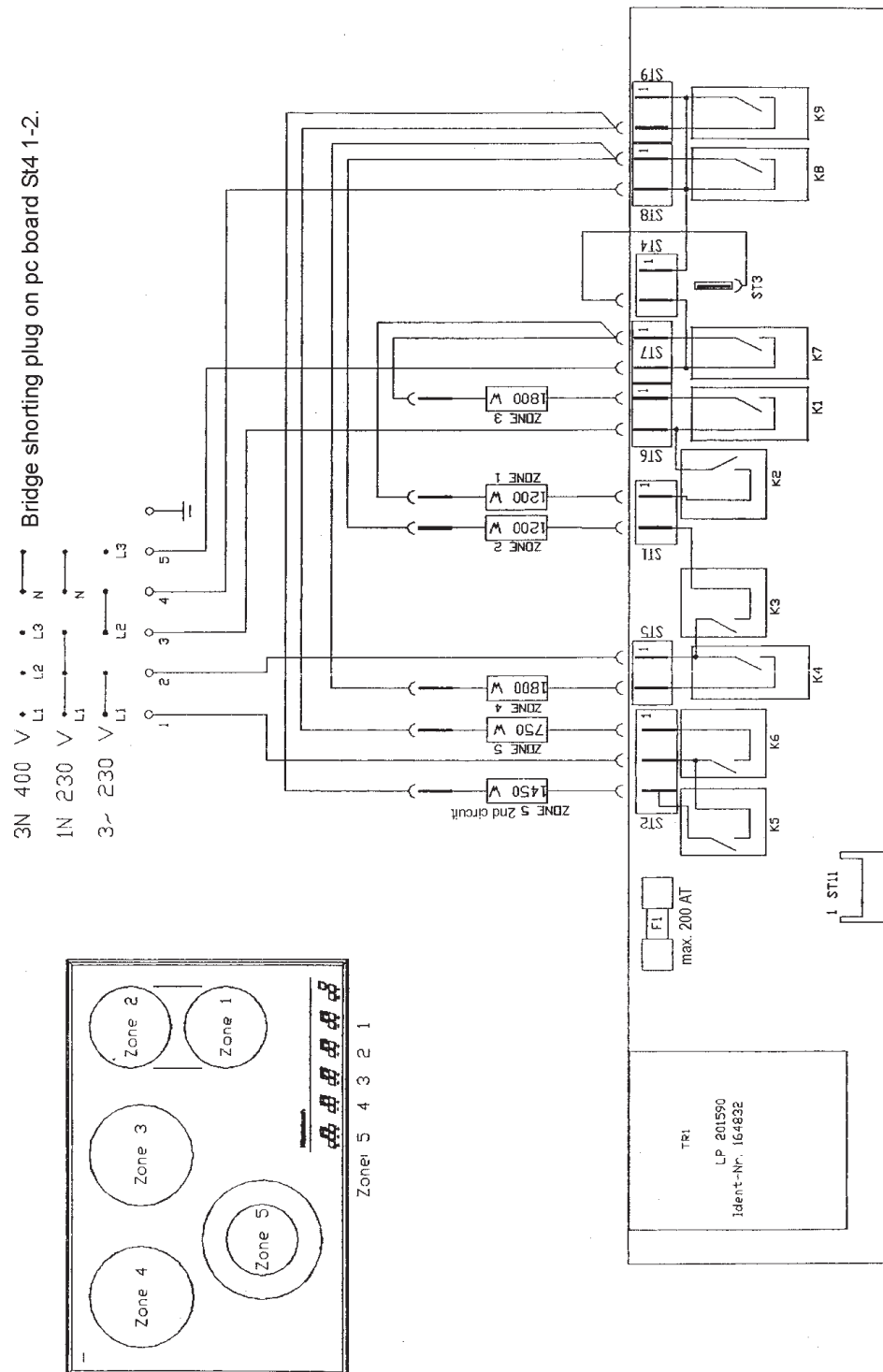
DE-ENERGIZE THE APPLIANCE PRIOR TO REPAIR!

Problems	Cause	On-the-spot measures
- Horizontal lines running from the top to the bottom in the displays	- Too intensive incident light radiation during sensor self-testing after a power failure	- Remove light source. Briefly disconnect the cooking zone from the source of current (via fuse).
- Circumferential symbol lines in all 4 LED displays	- No failure; normal display after failure of circuit	- Acknowledge by contacting the Off sensor

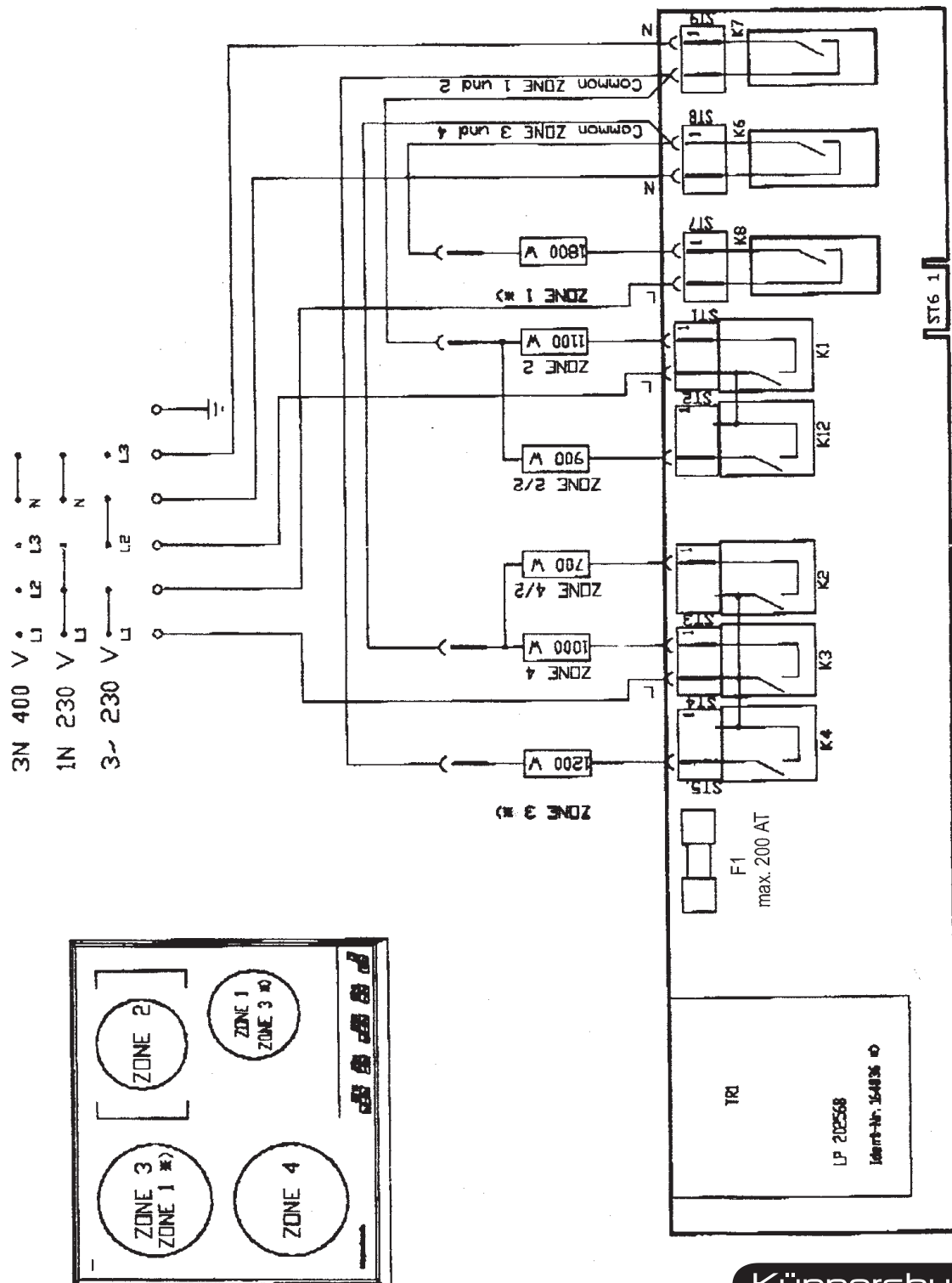
Troubleshooting and remedies

Problems	Cause	On-the-spot measures
<ul style="list-style-type: none"> - LED display for cooking settings and heat indicator do not or only partially light up 	<ul style="list-style-type: none"> - LED display defective 	<ul style="list-style-type: none"> - Call After-Sales Service (danger of being burned, as warning about temperature is not ensured)
<ul style="list-style-type: none"> - It is not possible to switch off the hob 	<ul style="list-style-type: none"> - Electronic component defective 	<ul style="list-style-type: none"> - Switch off fuse and call After-Sales Service
<ul style="list-style-type: none"> - The hob does not heat up 	<ul style="list-style-type: none"> - Childproof lock not deactivated - Household fuse defective - Cooking zone defective - Inner circuit of a dual-circuit cooking zone defective 	<ul style="list-style-type: none"> - Deactivate childproof lock - Check fuse and replace it, if required - Call After-Sales Service - On no account continue to operate the outer circuit that is still working and immediately call the After-Sales Service
<ul style="list-style-type: none"> - Individual/all sensors do no longer react to contact - Circumferencial symbol lines in all 4 LED displays 	<ul style="list-style-type: none"> - Sudden change of incident heat radiation - Slight relocation of the Touch Control due to impact 	<ul style="list-style-type: none"> - Remove source of heat - Briefly disconnect the cooking zone from the source of current (via fuse)

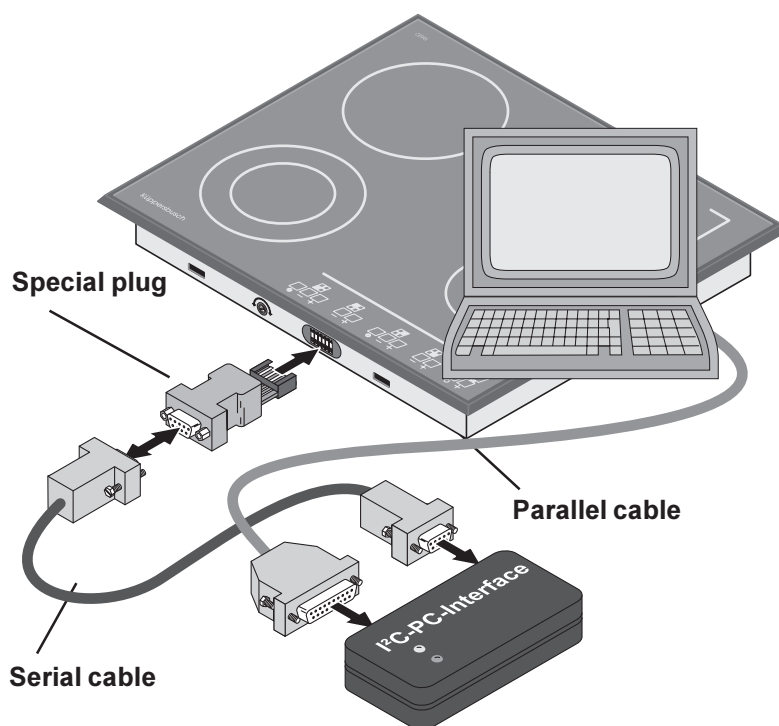
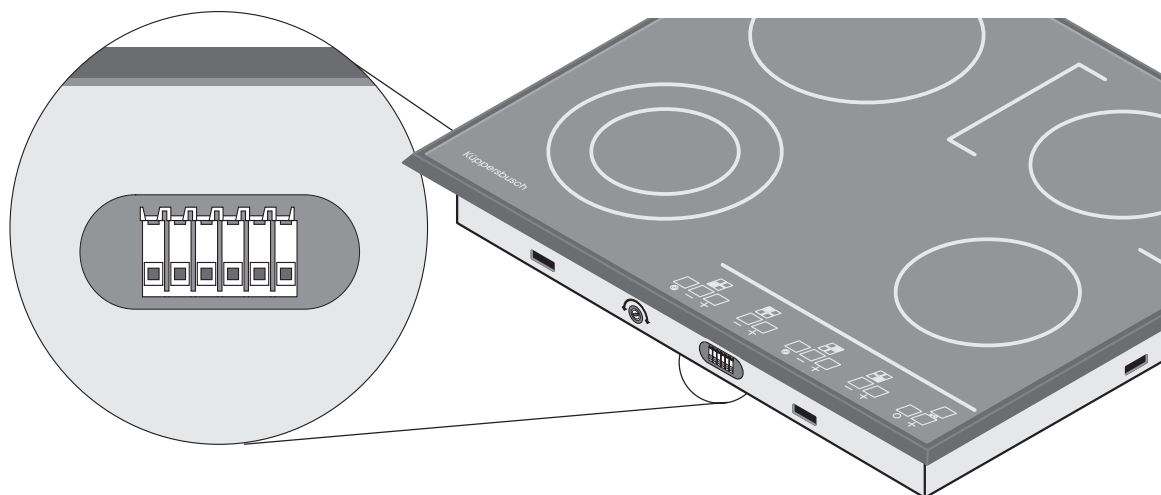
Terminal connection diagram 854.1



Terminal connection diagram EKE 604.2



Serial interface



Insert special plug through the side openings in the hob base into the multiple connector.

The other side of the special plug is connected with the PC interface via a serial cable.

When you have made the connection you must start the sensor test program on the computer.

Type of computer required:
min. AT 486 with an 8 MB RAM