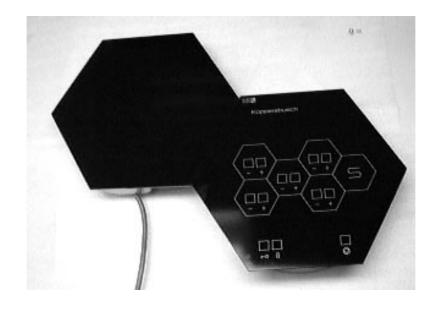
# KÜPPERSBUSCH After-Sales Service



# Technical Manual ESW 307.6 / EKW 306.0 / EKW 306.1

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Vk	KS-H	Technica ESW 307.6 / EKW 3		H1-58-01
Respons	ible: D. Rutz	Phone.: (0209) 401-733	Fax: (0209) 401-743	Date: 4.06.1997
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### 1 Introduction and safety advisory

The ESW 307.6 is a photosensor-based control. This is designed to permit non-contact control of the cooking elements.

These documents are intended as an accompanyment for practical training of the customer service technician.

### SAFETY ADVISORY

These devices are constructed in accordance with relevant safety regulations.

Mains connection, maintenance and repair of these devices are to be carried out only by an authorized specialist following the relevant safety regulations. Improperly performed work will endanger your safety.

Before opening the unit, the mains must be disconnected!

Further General Recommendations can be found in the Guide for Use and Assembly for Cooktops with Sensor Control Series ESW / EKW.

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<ul> <li>Digital multimeter in</li> <li>Battery powered or</li> <li>Solder</li> <li>Small ratchet assor</li> <li>5.5 mm socket spa</li> <li>8.0 mm socket spa</li> </ul>	e required for problemless cus ncl. measuring probes gas soldering iron rtment nner (Belzer No. 6400-5.5) nner th a blade of max. 1.6 x 0.5 m		
<ul> <li>Tweezer assortmen</li> <li>Flat screwdrivers, v</li> <li>Phillips screwdriver</li> <li>Torch, angled</li> <li>Small pocket mirror</li> <li>In addition, the follow</li> <li>Power supply for call</li> </ul>	nt various sizes (very important: rs, various sizes (very importa r r <b>ving aids are required :</b>		
<ul> <li>Glass cleaner, Side</li> <li>Cleaning cloths</li> </ul>	blin or similar		



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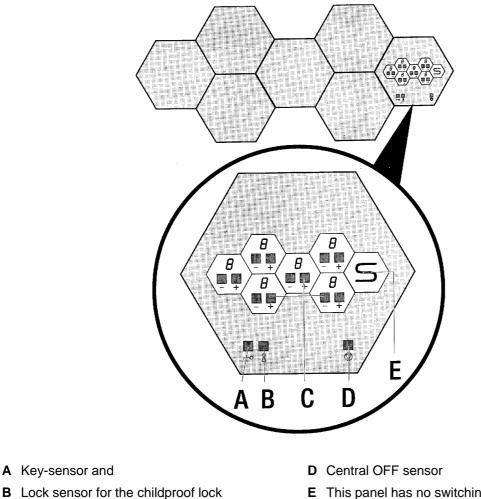
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### 3 Function description

### 3.1 Sensor operation with the control panel

Since the number and location of the honeycomb units can be individually determined, the control units must be adapted to the arrangement of the honeycomb unit configuration which you have selected. You may use your creativity here. The markings on the control unit correspond to the arrangement of the honeycomb units on the hob, so as to make operation as intuitive as possible.

A control unit can operate up to 6 honeycomb units. Should more than 6 honeycomb units be connected in a system, a second control unit is required. The control function of the controller always includes also control of the dual-circuit cooking zone and auto cook, as well as the child safety feature which locks out the electronics.

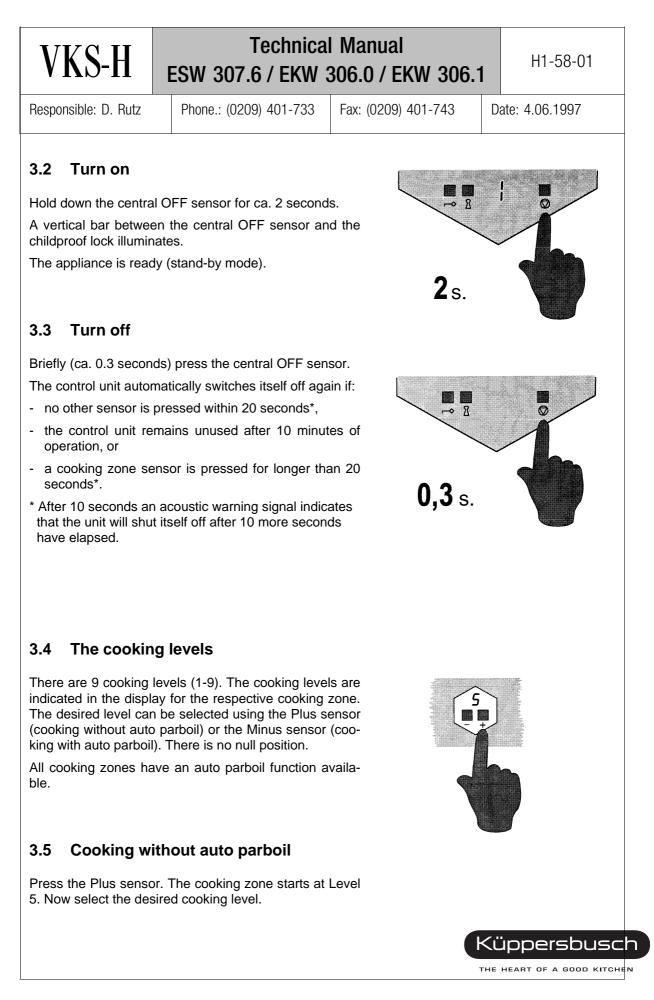


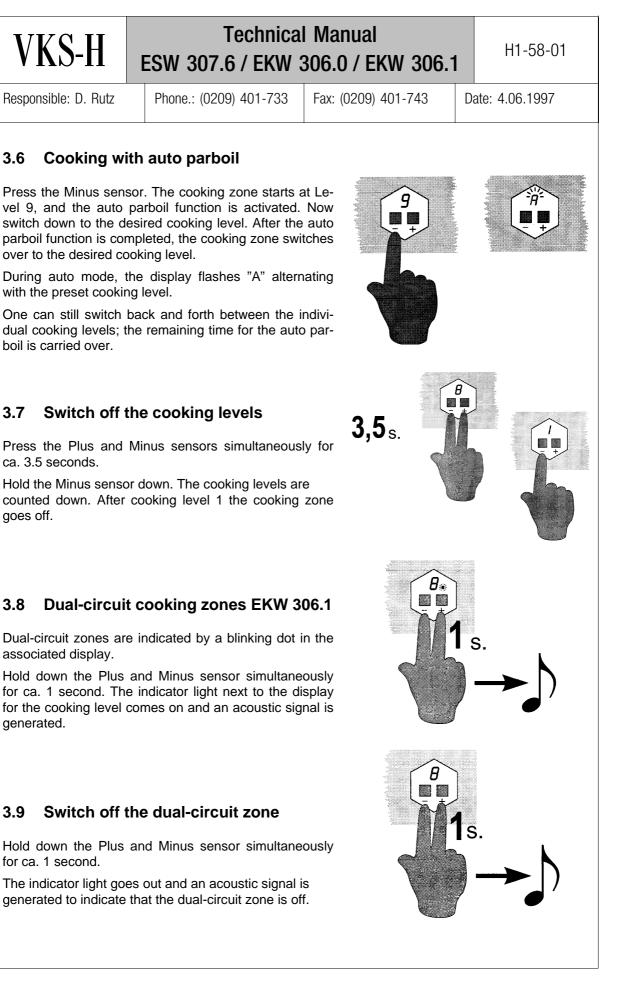
E This panel has no switching function. It simply indicates the position of the control unit.

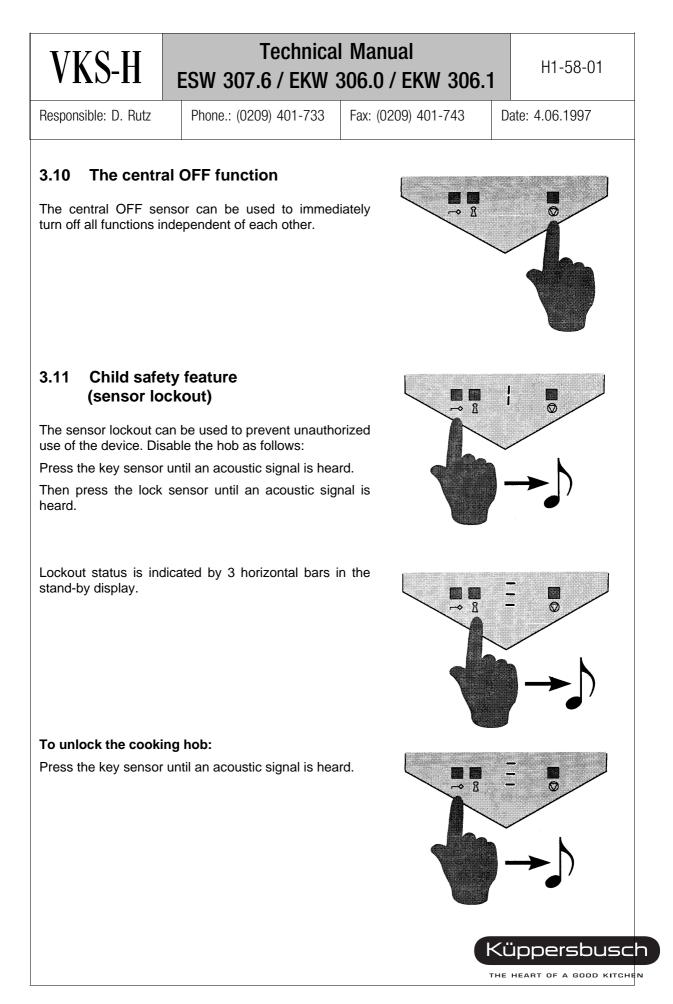
ration)

C Control panels for the honeycomb units with

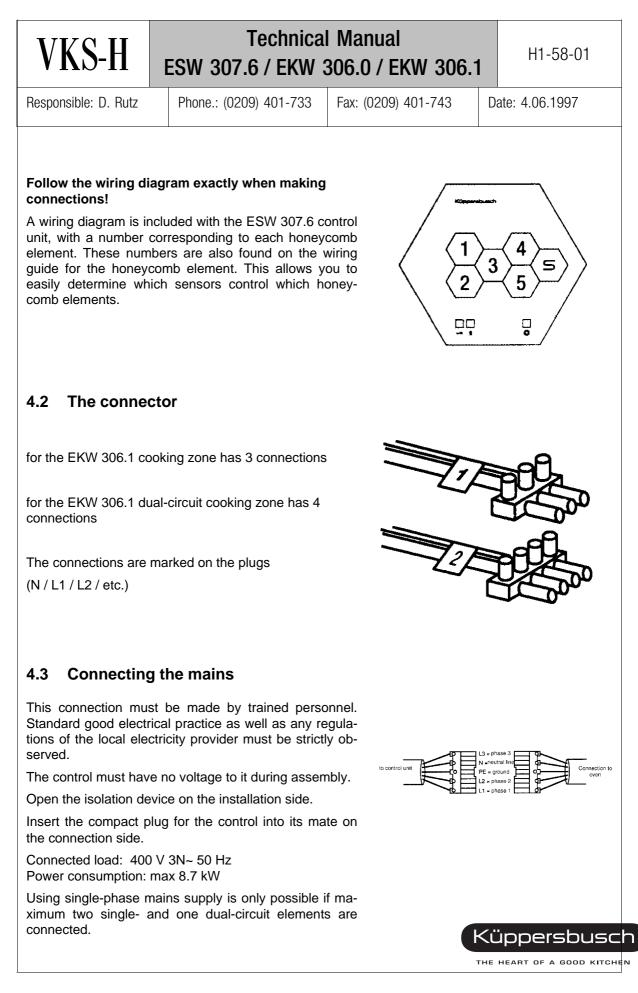
Plus and Minus sensors (example configu-

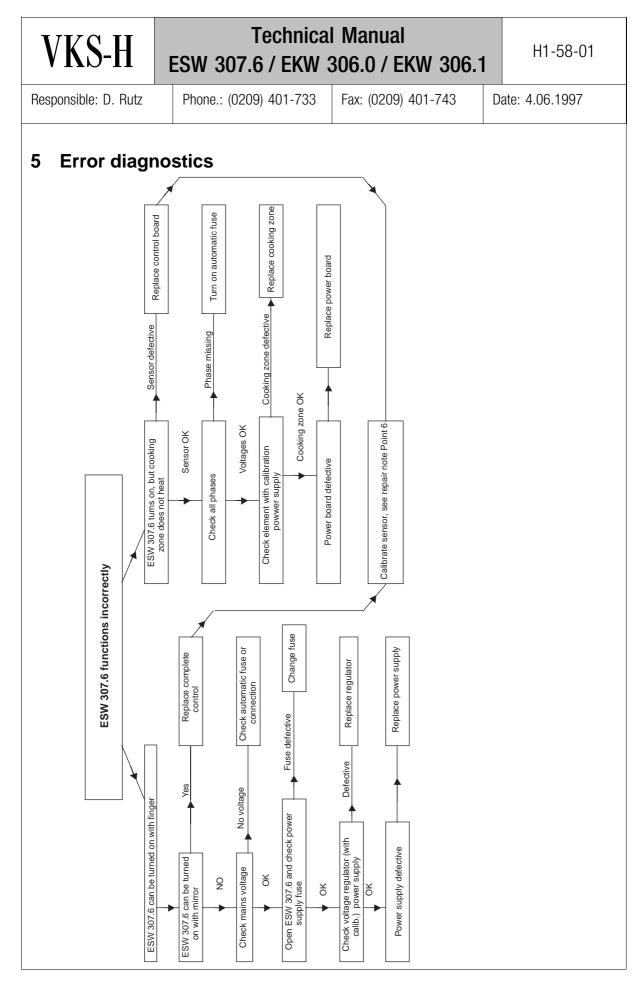


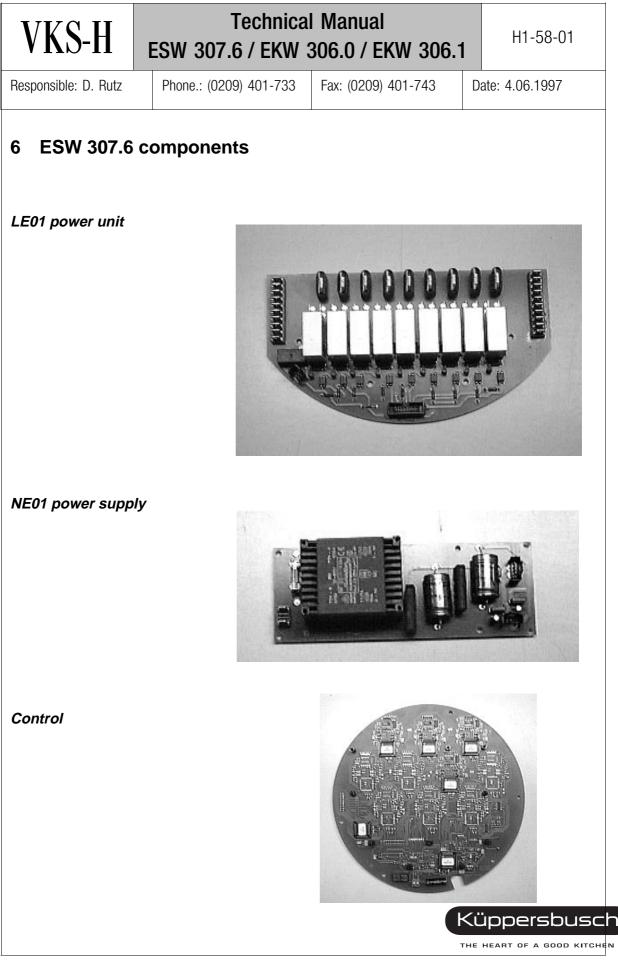




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heard. Unlock status is indic by display. Sensor lo	sensor until an acoustic sig ated by a vertical bar in the s ckout remains in effect even off. It is also unaffected by pr as power.	stand-	
pot is accidentally pla generate a switching	sensors at the same time, e. ced against the sensors, doe function. After 10 seconds an id after 20 seconds the entire	es not audi-	
- Disabling the sense			
<ul> <li>Switching dual-circl</li> <li>Switching off cooking</li> </ul>			
	d after reaching the highest le		
There is no automatic	start-up after a power loss.		
4 Electrical c	onnection		
4.1 Connecting control uni	honeycomb element t t	0	_
A control unit can han	dle up to 6 honeycomb eleme	ents.	5] 🔊
	dual-circuit cooking zones ca		







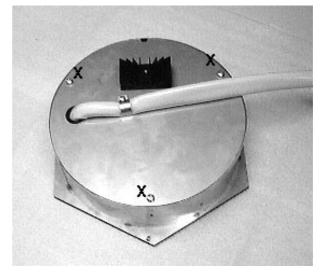
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### 7 Disassembling the individual components

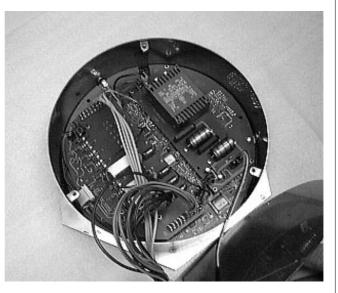
### 7.1 Disassembling the control

Before opening the unit, please read the safety advisory!

To remove the housing cover, the screws marked with an X must be unscrewed.



After removing the screws, set the cover carefully aside.



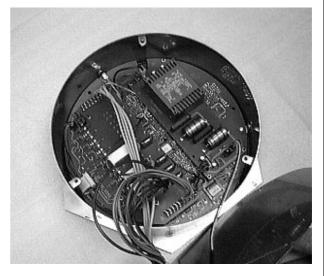
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### 7.2 Disassembling the NE01 power supply

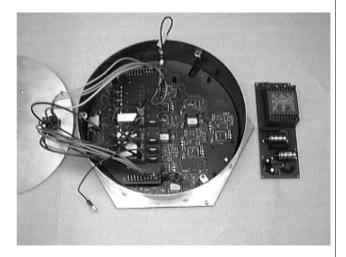
To disassemble the NE01 power supply, the connectors must first be removed (the connectors cannot be reversed when reassembling, since they all have different numbers of pins.).

Finally, a 5.5 mm socket spanner can be used to remove the nuts on the power supply.

Now the power supply can be removed from the housing.



To reassemble, follow the above steps in reverse order.







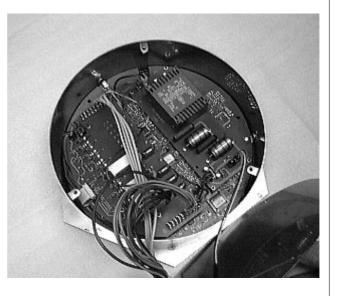
### 7.3 Disassembling the LE01 power unit

When removing the power unit, have a new unit ready and at hand.

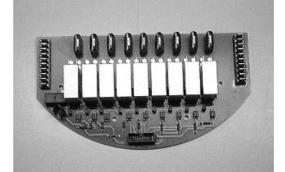
The electrical connections to the power unit are removed one by one and reconnected to the new unit in the same positions.

Do not reverse any of the electrical leads!

After the new connections are made, use a 5.5 mm socket spanner to remove the power unit nuts and remove the circuit board. Now insert the new power unit into the housing and close it up.



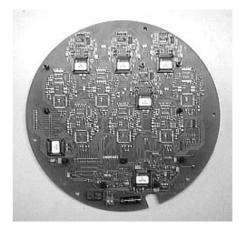
#### LE01 power unit



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#### 7.4 Disassembling the control board

The control board can only be disassembled after the NE01 power supply and LE01 power unit have been removed.

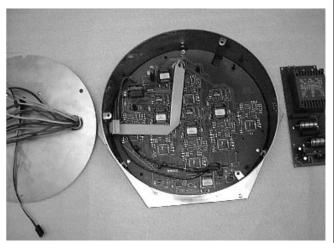


Finally, remove the 3 mounting screws from the control board. The circuit board is removed by lining up the cutout with one of the upper mounting brackets. Then remove it by lifting upwards.

Insert the new circuit board and fasten it using the 3 screws.

Use the torch to illuminate the circuit board from behind. Now the position of the individual components can be checked from above.

Should the photosensors and the imprint on the Ceran disc not coincide, the circuit board must be loosened again in order to bring it into the correct position. When the photosensors match the position of the imprint on the Ceran disc, the 3 screws can be tightened down.





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### 8 Calibrating the sensor electronics

Aids: Adjusting angle for sensor electronics Power supply for calibration

- The power supply is now electrically connected to the control board.
- Turn all potentiometers to full CCW position.
- Clean Ceran disc with glass cleaner.
- Start with the "ON-OFF" sensor. Set the adjusting angle from above on the Ceran disc on the corresponding module. Now turn the potentiometer slowly CW until the electronics turns on as indicated with the audible tone.
- After the angle adjustment, the sensor should be tested again using your finger, i.e. the sensor should respond at a height of ca. 1 cm.
- Turn one sensor pot to the "11 o'clock" position.
- Turn the control on again and touch the previously calibrated sensor directly with the finger, then calibrate again using the adjusting angle!
- Next, calibrate all cooking zone sensors in the same way.
- Finally, the "key-lock" combination is set. First set the key sensor as described earlier. Note that there is a short delay time until the acoustic signal comes on, i.e. the switchpoint must be very slowly searched with the potentiometer.
- The lock sensor can be set using the key sensor. Hold the setting angle on the lock sensor, use your finger to hold and activate the key sensor until the acoustic signal is heard. Now you must immediately begin adjustment of the pots, since only 2 seconds are available for this procedure. The process must be repeated, since the switchpoint will not be found immediately. This switchpoint <u>must</u> however be hit exactly, since improper function will result otherwise.

At the conclusion of the setting procedure, test each sensor again using your finger.

Assemble by following the steps described in the previous pages in reverse order.



