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1. ESD=electrostatic discharge

As the single electronic interfaces are not protected internally against static electricity and are partially open, you must pay attention to that, in case of a repair, there will be a potential compensation via the housing of the appliance (touch it) in order to neutralize a possible charging and to prevent a damaging of the affected electronic interface.

You also have to be careful with those electronics delivered as spare parts, which have to be put out of the ESD protective package only after a potential compensation (discharge of possible static electricity).

If a potential compensation with an existing static electricity is not executed, it does not mean that the electronic is damaged directly. Consequential damages may result due to the damaging of internal structures which arise only in case of load through temperature and current.

Endangered are all assembly groups which are provided with control entries, wire paths lying open and free-accessible processors.

2. Software specifications, functions

2.1 Appliance variants

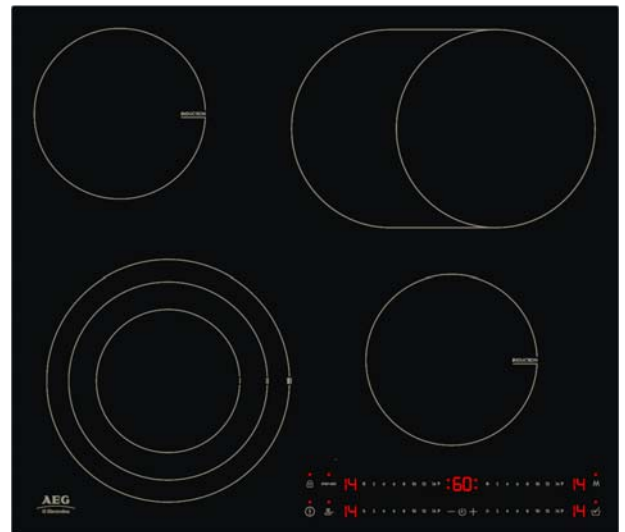
„KITE“ Bar graph Variant



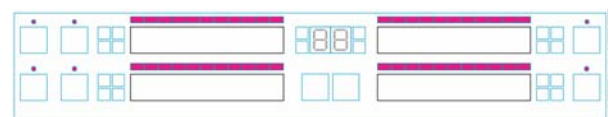
Sample Illustration



„KITE“ 7 Segment Variant

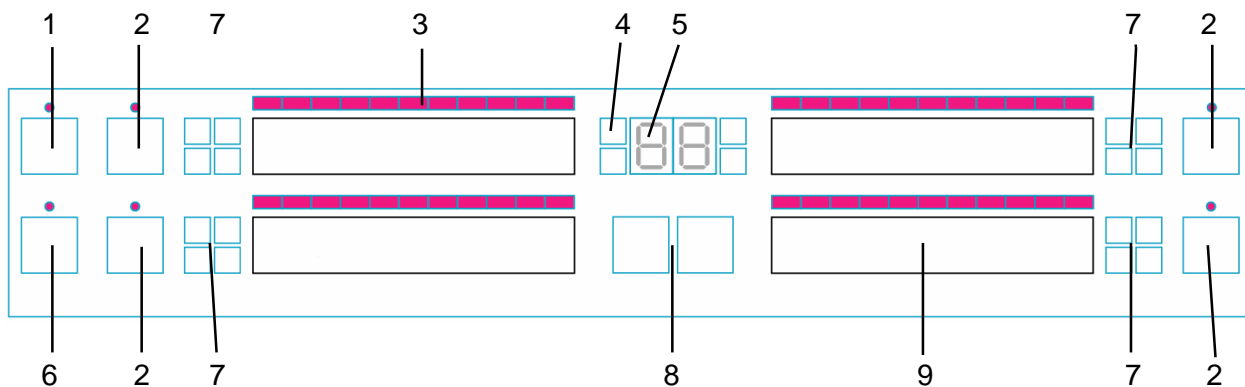


Sample Illustration



2.2 Button / and display layouts

2.2.1 „KITE“ Bar graph Variante

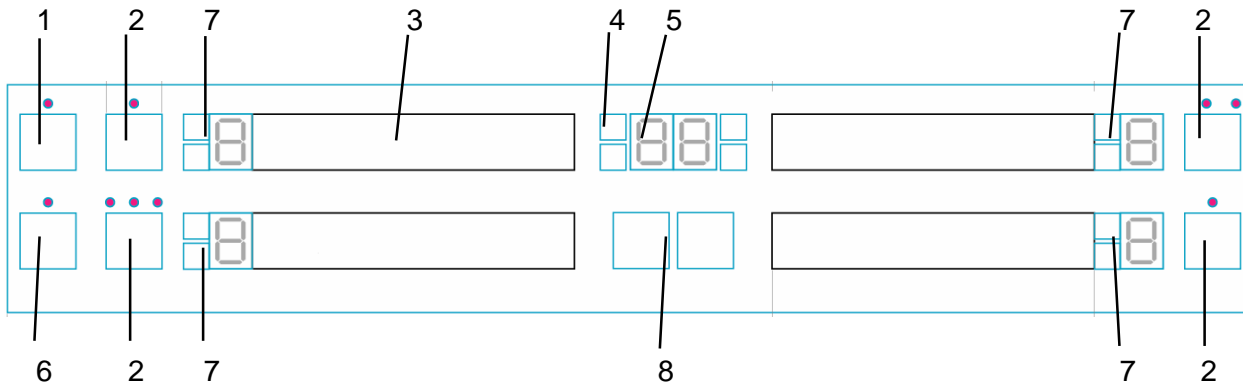


- 1 Locking/child safety lock with display
- 2 Additional multizone or additional connection of special functions with LED, depending on appliance class/make
- 3 Light elements for the cooking stage display
- 4 Cooking zone displays (LED) timer function
- 5 Timer display, 2x 7 segment displays
- 6 On/Off with display
- 7 Cooking zones status displays (LED) depending on appliance class/make
 - Pot recognition
 - Automatic deactivation
 - Residual heat ...
- 8 Timer operation
- 9 Cooking stage selection



Sample Illustration

2.2.2 „KITE“ 7 Segment Variant



- 1 Locking/child safety lock with display
- 2 Additional multizone or additional connection of special functions with LED, depending on appliance class/make
- 3 Cooking stage selection
- 4 Cooking zone displays (LED) timer function
- 5 Timer display, 2x 7 segment displays
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- 8 Timer operation



Sample Illustration

2.3 Main features of operation

2.3.1 Appliance On and Off connection

Switch on: -Touch "ON" sensor panel for 1 second. Pilot light illuminates.

Switch off: -Touch "OFF" sensor panel for 1 second. Pilot light illuminates.

After activation, a cooking stage or a function must be set within 10 seconds or the appliance switches off automatically.

2.3.2 Child safety function

The child safety lock prevents an undesirable use of the appliance.

Switching child safety function on

- Switch appliance on with the `ON` safety switch (do not set a cooking stage).
- Press the child safety lock button for 4 seconds. Display "L". The child safety device is activated.

Bypassing the child safety lock

With this, the child safety lock can be deactivated for a single cooking process; it continues to remain active afterwards.

- Switch appliance on with the `ON` safety switch (do not set a cooking stage).
- Press the child safety lock button for 4 seconds. Display "L".

It can be used one more time until the next deactivation of the appliance. After the child safety device has been bypassed a cooking stage or function must be set within approx. 10 seconds, otherwise the appliance switches off automatically.

Switching child safety function off

- Activate the appliance with the "ON" sensor button.
- Press the child safety lock button for 4 seconds. Display "L".
- Appliance switch off. The childproof lock is deactivated.

3. Automatic Shut-Off

Hob

- If you do not set a cooking level in a cook zone within approx. 10 seconds after switching on of the cook field, the cook field switches off automatically.
- If one or more sensor fields are covered longer than 10 seconds, e.g. by a pot placed on it, a signal sounds and the cook field switches off automatically.
- If all cook zones are switched off, the cook field switches off automatically approximately 10 seconds later.

Control panel

- If one or more sensor panels in the operating panel should be covered for more than 10 second when the appliance is switched off, a buzzer sounds. The buzzer switches itself off automatically when the sensor panels are no longer covered.

Cooking zones

- If one of the cook zones is not switched off after a certain time or if the cook stage is not changed, the appropriate cook zone switches off automatically. „-“ is displayed. Before renewed use the cook zone must be set to „0“ and be cooled down.

<u>cooking level</u>	<u>The cooking zones are disconnected with</u>
1-3	6 Hours
4-6	5 Hours
7-8	4 Hours
9-14	1,5 Hours

4. Functional parts, Component data

4.1 „KITE“ Input electronic

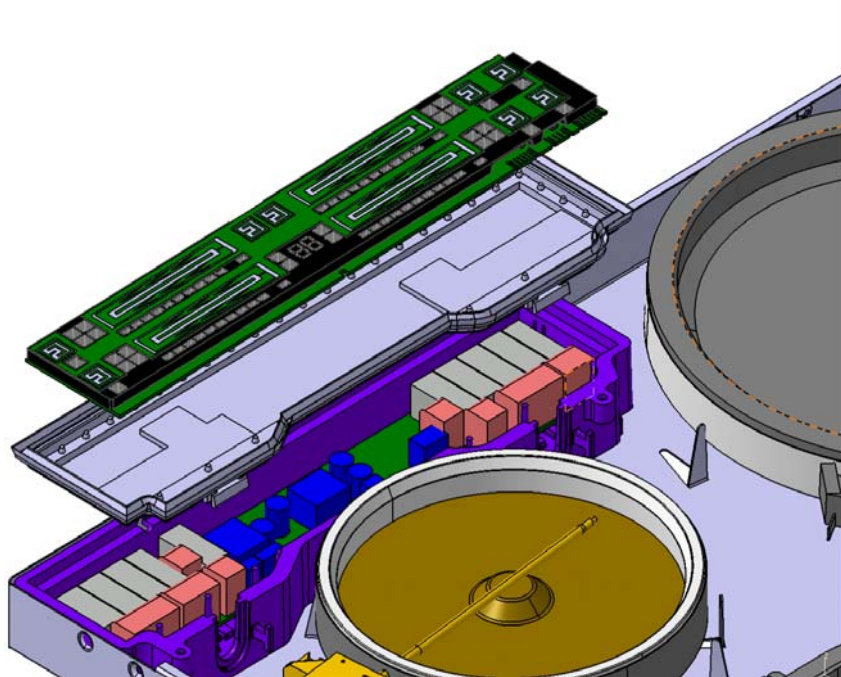


Fig.: „KITE“ Bar graph Variante

Depending on the "KITE" type, "KITE" input electronic mainly comprises one or more LED displays, 4 "sliders" (touch control operating strips), capacitive sensor buttons and a microprocessor in addition to diverse semiconductor modules.

"KITE" controls both radiation-heated hobs with HOC power electronic and hobs with induction heating.

Assembly situation „KITE“ input electronic

The `KITE` input electronics system can be accessed after the top glass/top trough frame connecting screws have been loosened and the top glass has been lifted off; it can now be easily removed together with the silicone sealing mat. This is valid for both radiation-heated hobs and hobs with induction heating.

The silicone sealing mat is enclosed with the configured `KITE` input electronics spare part. It is imperative that this also be replaced and carefully fitted in order to ensure the tightness of the electronics. The `KITE` input electronics must be exactly fitted in the mat. Check that the cable sleeve is correctly positioned before closing the top.

Sample Illustration Induction hob

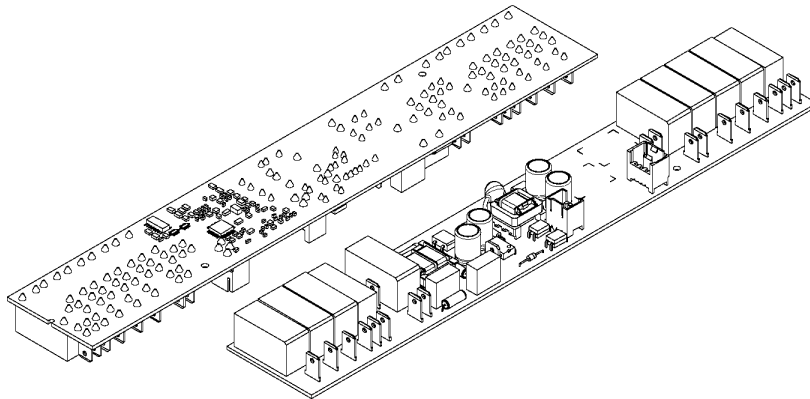


With radiation-heated hobs, the HOC power electronics can be accessed after the silicone frame has been removed. Please refer to Service Manual 599 519 523 for further information on the servicing of induction hobs.

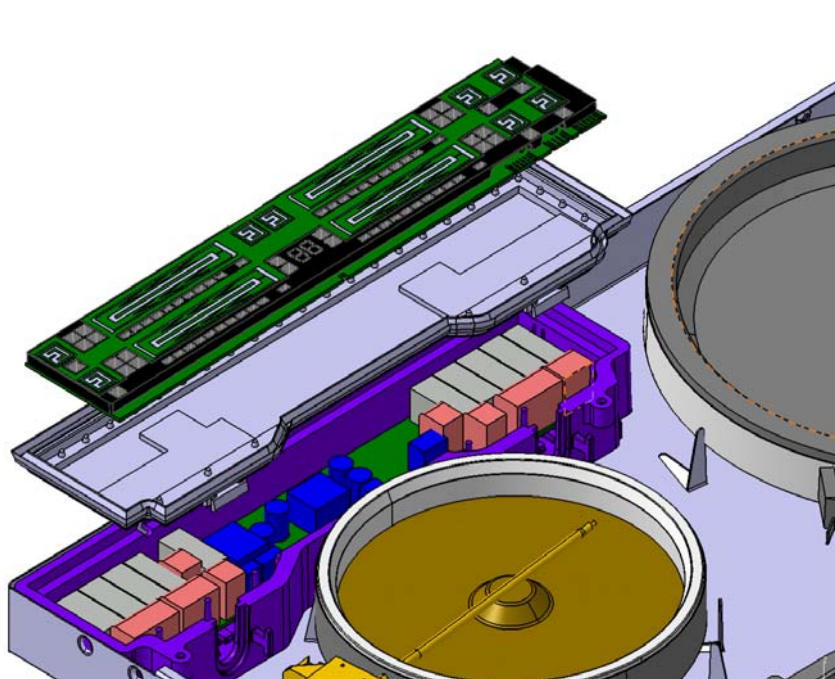
4.2 „HOC 2010“ power electronics for radiation-heated hobs

The `HOC 2010` power electronics comprises a row of relays, a transformer and other components which are required to supply power to the relays and the input electronics. It receives the electrical control signals which are transmitted by the input circuit board and supplies the corresponding radiator with power depending on the impulses.

Each of the connector lugs and relays are designated on the circuit board. These designations are also on the circuit diagrams.



Assembly situation



5. Fault diagnosis

5.1 What to do if ...?

Problem	Possible cause	Remedy
The cooking zone cannot be switched on or is not functioning	More than 10 seconds have passed since the appliance was switched on	Switch appliance back on
	The child safety lock is activated	Deactivate the child safety lock (see chapter "child safety lock")
	Numerous sensor panels were touched simultaneously	Only touch one sensor panel
	Automatic deactivation has been triggered	Remove any objects (pot, cloth, etc.) from the operating panel, switch appliance back on
	There is water on the operating panel or the operating panel is covered by fat splashes	Wipe over operating panel
	Stop + Go is active	Deactivate Stop + Go
Buzzer sounds when appliance is switched off	The operating panels completely or partially covered by objects.	Gegenstände entfernen
	There is water on the operating panel or the operating panel is covered by fat splashes	Wipe over operating panel
The residual heat display does not display anything	The cooking zone has only been on for a short time and is therefore not hot yet	Contact customer service of the cooking zone is hot
The buzzer sounds and the appliance switches itself on and off again after 5 sec.; the buzzer sounds again after 5 sec.	The On/Off sensor panel has been covered up, e.g. by a cloth	Do not place any objects on the operating panel
"-" is illuminated	Automatic deactivation has been triggered	Switch cooking zone off, switch cooking zone back on again
"E" and a number are displayed	Electronics error	Disconnect the appliance from the mains for a few minutes (remove the fuse from the house fuse cabinet). if "E" is still displayed after switching back on, contact customer service
"?" is illuminated	Automatic deactivation has been triggered	Switch cooking zone off and then back on again

5.2 Alarmmanagement (Faultcodes)

5.2.1 Error codes for hobs with radiation-heated cooking zones

Error code	Error description	Error remedy
E0	Configuration alarm	Disconnect the appliance from the mains, wait 10 seconds and restore power. replace power electronic is error still displayed
E1	Input electronic configuration error	Replace input electronic
E7	Cooling fan not connected or blocked	Check the cooling fan induction module and replace if necessary
E8	Disturbed communication between the input electronic and power electronic	Check the connecting cable and replace if necessary, replace input electronic if unsuccessful-> Replace power electronic
E9	Internal electronics error	Replace power electronic

5.2.2 Error codes with hobs with induction heating

Please refer to Service Manual 599 519 523 for explanations on error displays in induction hobs.

6. Demo Mode/ Service Mode/ Alarm Error Mode

The deactivated state of the hob is the starting position.

Activate the On/Off sensor button for 3 seconds.

Activate the additional multizone connection/additional function connection sensor buttons for both of the right cooking zones for 3 seconds. Note: the sensor buttons are not visible when deactivated. Please refer to the manual for the exact position of the buttons. Confirmation with an acoustic signal (2x "beep").

Pressing the timer sensor button once = DEMO MODE. This is shown by a "d" in the left timer display.

Pressing the timer sensor button twice = SERVICE MODE. This is shown by an "s" in the left timer display.

Pressing of the timer sensor button three times = ALARM/ ERROR MODE.

Pressing of the timer sensor button four times = return to DEMO MODE.

If a sensor button is not activated, the normal deactivation times described in Chapter 2 have validity.

6.1 Demo Mode

Timer display left „d“ = Demo Mode
Timer display right „“ = Demo Mode off

The Demo Mode is activated by pressing the „Timer +“ sensor panel.
Timer display left „d“ = Demo Mode
Timer display right „o“ = Demo Mode on

The hob can now be used as normal but without a heat output

The demo Mode is deactivated by pressing the „Timer +“ sensor panel again.
Timer display left „d“ = Demo Mode
Timer display right „“ = Demo Mode off

The hob can now be used as normal with a heat output

6.2 Service Mode

The Service Mode is activated by pressing the „Timer +“ sensor panel.
Timer display left „s“ = Service Mode.

- The function of all LEDs and displays is tested for 5 seconds.
- The software version and the input electronic version are displayed in the timer display for 5 seconds.
- The software version of the power electronic is displayed in the timer display for 5 seconds

6.3 Alarm Error Mode

The Alarm Menu is activated by pressing the „Timer +“ sensor panel.
Timer display left „E“ = Error Mode.

Each of the last five error codes to occur are shown for 5 seconds.