Electrolux

SERVICE MANUAL

COOKING



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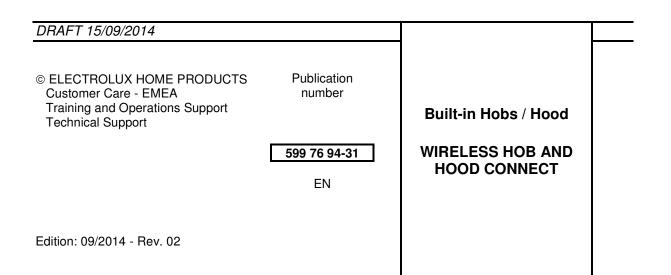


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1 - INTRODUCTION

1.1 - PURPOSE OF THIS MANUAL

The purpose of this Manual is to provide Service information for Wireless Built-in Hobs connect to the Hood.

1.2 - WARNINGS



- All work with open appliances must be done with the mains supply disconnected.
- Work on electrical equipment should only be carried out by qualified personnel.
- Before working on a device, check the efficiency of the system casing using appropriate equipment. As an example, refer to the indications described / illustrated in the portal Electrolux Learning Gateway (http://electrolux.edvantage.net).

After the work, carry out electrical safety tests and ensure that the all safety devices are working properly.

 In the case of manipulation / replacement of the PCB, use the ESD kit (Code 405 50 63-95/4) to prevent electrostatic discharge damage the circuit board see SB No. 599 72 08-09

1.3 - IMPORTANT NOTES



- At the moment of using other remote controls, it can disturb or block the receiver of the cooker hood.
- High pots or the handle of pans can block the communication if they are in line of transmission.
- It must be performed a precise installation of the appliances in order to guarantee the correct alignment of the transmitter and the receiver (look at the user manual).
- Direct irradiation of sun light or halogen spot light can disturb or block the receiver of the cooker hood.
- Standard service-mode is available for the induction hob only.

2 - HOB & HOOD CONNECT CONCEPT DESCRIPTION (H²Twin)

Extend the hob interface and electronic to allow to control a hood via IR signals. This functionality will provide increased ergonomics and easy to use advantages especially on hood controls that are hard to reach or require remote control anyway (e.g. ceiling hoods, groups). This will provide a good reasoning to link hob and hood sales driving an improved conversion rate.

Insight

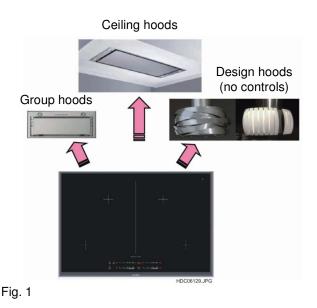
Deciding for a stylish ceiling hood or a fully integrated hide away group hood includes the necessary to use an additional remote control to overcome ergonomic problems on reaching the interface.

Concept

Extend the hob interface and electronic to allow to control a hood via IR signals. This functionality will provide increased ergonomics and easy to use advantages especially on hood controls that are hard to reach or require remote control anyway (e.g. ceiling hoods, groups).

Benefit

Ergonomic and easy control of hoods via hob.



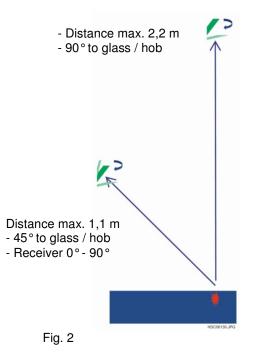
2.1 - MAIN FEATURES OF THE SYSTEM

The main features of gaming, which are described in the following chapters are:

- Wireless connection from Hob to Hood
- Automatic ON Lamp and control the fan speed of the Hood.
- Infrared control, implement on "KiteC" of the Hob.
- Different ways of automatic control of the Hood.
- Manual control of the fan (light is always automatic) on the Hood through the Hob.

2.2 - DISTANCES OF COVER CONNECTION "WI-FI"

Depending on the angle of the hood to the plane also changes the maximum distances of coverage for the reception of the hood. We report below the indicative example (see Figure 2).



2.3 - INSTALLATION WITH DIFFERENT TYPES OF HOOD

For the function of Hob²Hood, it is absolutely necessary, to comply the regulation of installation in the user manual.

Depends on appliances, the installation dimension of min. and max. distances and angles are different. Takes the dimension from the user manual of cooker hoods.





2.3.1 - EXAMPLE OF POSITION OF IR RECEIVER IN THE HOOD

Depending on the type of hood, the position of the receiver of the remote control changes (see below for examples). For specific information, refer to its instruction booklets. Some hoods are provided with two receivers, one for the remote control and one for the hob.

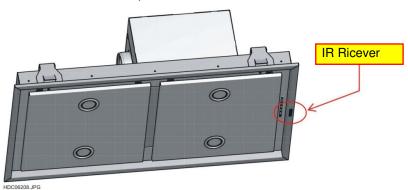


Fig. 4

POSITION ON THE HOOD WITH TWO INFRARED RECEIVERS



0

0

Fig. 8

HDC

0

0

Fig. 6







POSITION ON THE HOOD WITH A SINGLE INFRARED RECEIVER



Fig. 9



Fig. 10



Fig. 11



Fig. 12



Fig. 13



Fig. 14



Fig. 15



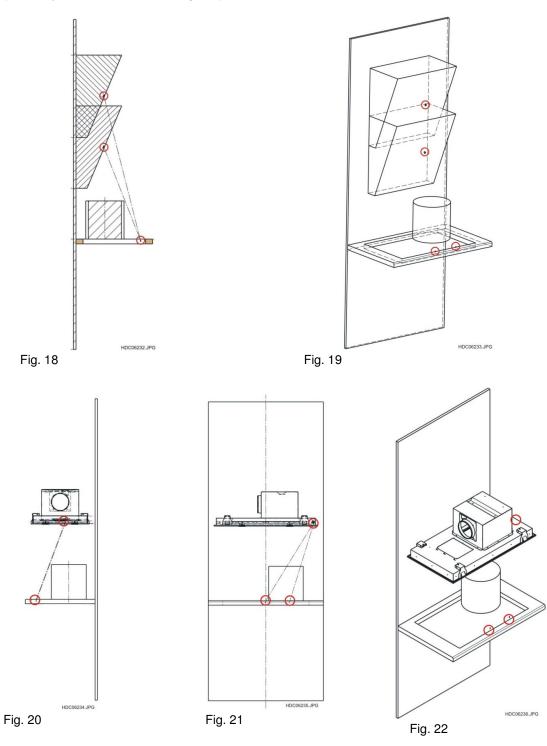


Fig. 17

2.3.2 - INTERFERENCE OF PANS IN THE RECEPTION OF HOODS

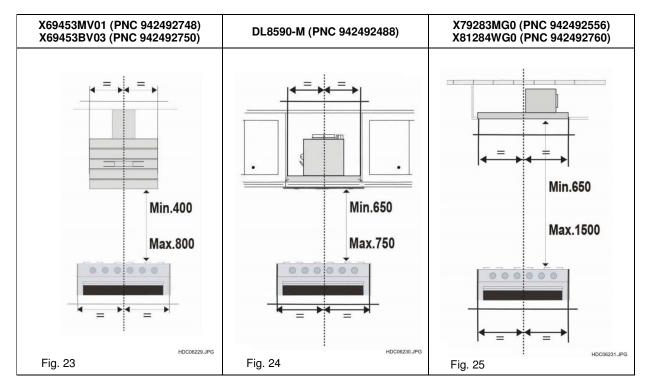
In the installation, the distance and the position of the hood relative to the hob is also important to avoid interference of the pots in the Connection between hob and hood.

The following figures are shown examples of the positions of transmitter in the hobs and receivers in the hoods (see hoops in red in the various figures).



2.3.3 - EXAMPLES OF INSTALLATION DISTANCE FROM THE INSTRUCTION BOOKLETS

We report an example of the different installation distances from the Hob depending on the model, extracted from the instruction manuals:



3 - MODE OF CONNECTION SYSTEM "INFRARED CONNECTION"

The models of Hobs that control the hood have the ability to control in automatic or manual mode. The Hobs are factory set in automatic mode (see Chapter 3.2.1 - AUTOMATIC MODE SETTING).

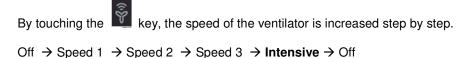
3.1 - MODE OF OPERATION MANUAL

It is possible to control the fan of the hood in manual mode through the Hob.

To control the fan:

Touch the $\widehat{\mathbb{M}}$ key one time. The speed of the ventilator increases for one step.

The automatic mode is deactivated, except for the Off-function.



The speed **Intensive** is available manually only and isn't included in the automatic modes.

3.2 - MODE OF OPERATION AUTOMATIC

3.2.1 - AUTOMATIC MODE SETTING

The ventilator and the light of the cooker hood is automatic switched on, during the boiling or frying operations. The customer can choose the automatic modes H0 - H6 settings itself, depends on his cooking habits (look at the table).

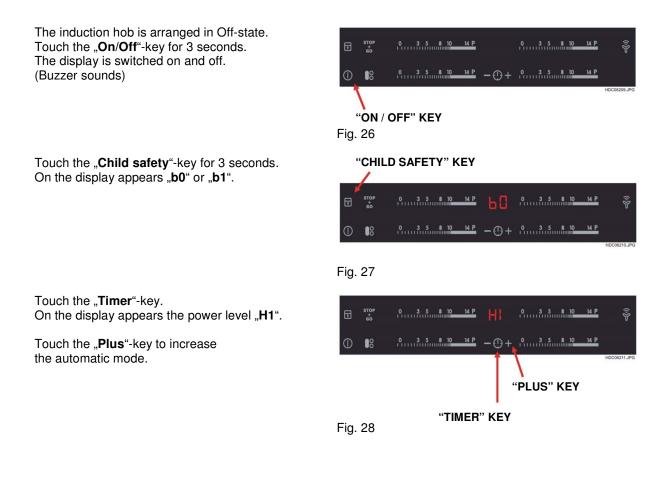
MODE	AUTOMATIC LIGHT OPERATION	FAN AT BOILING TEMPERATURE	FAN AT FRYING TEMPERATURE
H0	OFF	OFF	OFF
H1	ON	OFF	OFF
H2*	ON	SPEED 1	SPEED 1
H3	ON	OFF	SPEED 1
H4	ON	SPEED 1	SPEED 1
H5	ON	SPEED 1	SPEED 2
H6	ON	SPEED 2	SPEED 3

Factory setting for automatic mode is H5.

* Mode H2 switches on the ventilator independent from the temperature.

Depending on the use of the Hob in "boiling" or in "frying", being the times and different temperatures, the system through the temperature sensor and recognizes the functions depending on the setting of the automatic mode commands in an appropriate way the hood (see also Chapter 3.2.3 - FUNCTION OF AUTOMATIC MODE).

3.2.2 - CHANGE SETTING OF AUTOMATIC MODE



5 ZONE PELICAN HOBS



Fig. 29

3.2.3 - FUNCTION OF AUTOMATIC MODE

The automatic operation is split in two functions. → BOILING and FRYING

FRYING	→ Needs a high power level with short heating time. e.g. steak, fried sausage
BOILING	→ Needs a high power level with long heating time. e.g. noodle water

The characteristic of the induction hobs is to heat up the cookware very fast, in the beginning of the heating up phase. The transmission of temperature from cookware to temperature sensor is based on "Ceranglas" very slow.

The operation to recognise the functions, is therefore limited in the period of the **first 5min**.

First 5 minute \rightarrow Switch on the induction hob.

The adjustment of the power level is be	tween 12 – P (high power level).
Heating time with adjusted power level	< 3 minute -> FRYING
Heating time with adjusted power level	> 3 minute

The recognition of functions FRYING or BOILING, is controlled by reducing the power level through the customer via electronic.

After 5 minute

The automatic ventilator levels, are controlled by measuring the residual heat.

_	TEMPERATURE	RESIDUAL HEAT	FUNCTION
-	65 - 79 °C	1	
-	80 - 103 ℃	2	BOILING
HDC08212.JPG	> 104 °C	3	FRYING

When the temperature is on the threshold to the function FRYING, the ventilator is toggled between the functions BOILING and FRYING \rightarrow To avoid this toggle, the speed of the ventilator will work by BOILING.

3.2.4 - FUNCTION OF LIGHT

Switch on the induction hob

\rightarrow The light switches on.

The user interface of the induction hob sends one impulse (Command) to the cooker hood to switch on the light. The impulse is send 3 times within of 2 seconds (these we do only for the light on and off, rest of the commands we do 3 times within of 30 seconds) to make sure, that the light has been switched on.

Switch off the induction hob

 \rightarrow The light of the cooker hood is still switched on for the next 2 minute (The customer has the possibility to remove the pots).

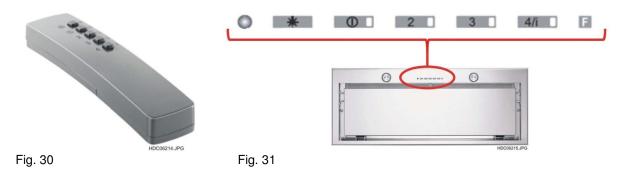
 \rightarrow The ventilator is still running in dependence of the residual heat.

→ After 2 minute the light switches off itself.

The user interface of the induction hob sends one impulse (Command) to the cooker hood to switch off the light. The impulse is send 3 times within of 2 seconds to avoid accidentally a resetting the light.

3.3 - REMOTE CONTROL ACTIVATION / DEACTIVACTION

- In combination with the project "Hob²Twin" (concept Hob & Hood connected), some cooker hoods are delivered from the supplier with deactivated remote control.
- In service case, after replacing the electronic, the remote control function has to activate new.
- Is the remote control replaced, it is not necessary to reactivate it.



To activate / deactivate the remote control:

- 1. Switch off the suction motor and the lighting system.
- 2. Disconnect the hood from the power supply.
- 3. Holding down the button and reconnect the power supply.
- 4. Release the button . all 5 LED's are on for about 3 seconds.
- 5. Select the button **4/1**, within 3 seconds for deactivation or activation.
 - 2x flashings LED 4/1 = Remote control receiver is activated.
 - 1x flashing LED 41 = Remote control receiver is deactivated.

For Hoods with display:

To activate / deactivate the remote control:

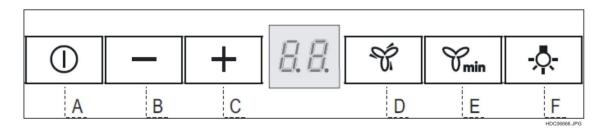


Fig. 32

When the hood is off, push the button for turn on/off the hood for 5 seconds on display there will be the symbol "IR" (like in the Fig. 21).

21).

You must see if the little red point (down the letter R) flash once (the receiver is off).



Fig. 33

4 - HOB RANGE EXAMPLE



The Cooker hoods that work with HOB²HOOD function must have the symbol We report the example of the range of induction hobs with the possibility of control of the hoods: all other new models linked to this range are listed in appendiex page 21, 22.

	80 cm	80 cm
HOB DIMENSIONS	Fig. 34	Fig. 35
MODELS	PNC: 949595338 HK854420IB PNC: 949595323 HK854420XB	PNC: 949595328 HK854401IB PNC: 949595327 HK854401FB PNC: 949595326 HK854401XB
COOKING ZONE	2 x 210 mm 2300/2300W 1 x 145 mm 1400/2500W 1 x 180/280 mm 1800/3500W 2800/3700W	4 x 210 mm 2300/3200W
POWER SUPPLY	9900W, 3 x 16 A	7400W, 2 x 16 A

	68 cm
HOB DIMENSIONS	Fig. 36
MODELS	PNC: 949595345 HK544007XB PNC: 949595339 HK754400IB PNC: 949595324 HK754400XB
	FINC: 949595524 HK/54400AB
COOKING ZONE	2 x 210 mm 2300/2300W 1 x 145 mm 1400/2500W 1 x 240 mm 2300/3600W
POWER SUPPLY	7400W, 2 x 16 A

5 - HOOD RANGE EXAMPLE

We report the example of the range of hoods with the possibility of being controlled by the induction Hob:

5.1 Faber HOOD

HOOD TYPE			
	Fig. 37	Fig. 38	Fig.39
	Ceilling Hood	Premium Ceiling	Inca Dektor
MODEL	X79283MG0 PNC: 942492556 X792263MG0 PNC: 942492824	X81284WG0 PNC: 942492760 X812264MG0 PNC: 942492815	DL8590-M PNC: 942492488 X78264MG10 PNC: 942492818

Faber HOOD TYPE	Fig. 40	Fig. 41	Fig. 42
	Inca Dekor	Street P10	Street P10
MODEL	DL8560-M PNC: 942492489 X86264MG1 PNC: 942492841	X69453MV01 PNC: 942492748 PNC: 942 492 768 X69454MV00 PNC: 942492820 PNC: 942492848	X6953BV03 PNC: 942492750 PNC: 942492769 X69454BV01 PNC: 942492844 PNC: 942492849

Faber HOOD TYPE	Fig. 42		
	Fig. 43		
	Backstein P10		Backstein P1045
MODEL	X69463MD02 PNC: 942492752 PNC: 942492771	X69454MD10 PNC: 942492814 PNC: 942492850	X89463MD02 PNC: 942492754

Faber HOOD TYPE	HDC08190.JPG		HOOMING, PG	HOOSISJJPO
	Fig. 44		Fig. 45	Fig. 46
	Gemma		Madison	Linear AFP
MODEL	X79263MK1 PNC: 942492755 PNC: 942492756	X79263MK10 PNC: 942492816 PNC: 942492817	X79263MV1 PNC: 942490371 X79264MV10 PNC: 942490424	DD8694-M PNC: 942492478

5.2 Elica HOOD

HOOD TYPE	Fig. 47		Fig. 48	
	Puzzle Island	Puzzle Wall	Framed Island	Framed wall
MODEL	X91484MI10 PNC: 942122958 X91484MI20 PNC: 942122963	X99484MD10 PNC: 942122957 X99484MD20 PNC: 942122962	X91484MI30 PNC: 942122961 X91484MI40 PNC: 942122965	X99484MK10 PNC: 942122960 X99484MK20 PNC: 942122964

HOOD TYPE		
	Fig. 49	Fig. 50
	Puzzle ceiling	Vertical Sandwich
MODEL	X91484MG1 PNC: 942 122 873	X94484MV10 PNC: 942122959

6 - HOB USER INTERFACE (KiteC)

The induction cookers are equipped with WIFI-enabled interface "Kite C" that has the addition of the components related to the connection.

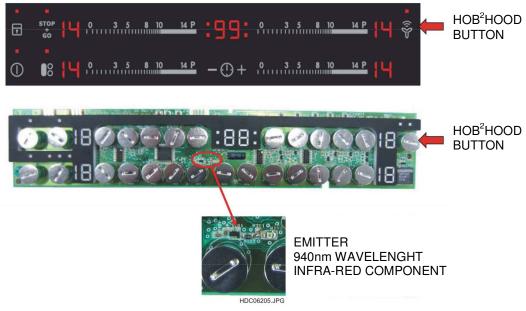


Fig. 51

5 ZONE PELICAN HOBS



Fig. 52



Fig. 53

EMITTER 940nm WAVELENGHT INFRA-RED COMPONENT

7 - HOOD USER INTERFACE

The user interface of the hood is provided with a receiver (in certain models 2) for the infrared signal for the command through the induction hob or through the remote controller provided as optional.

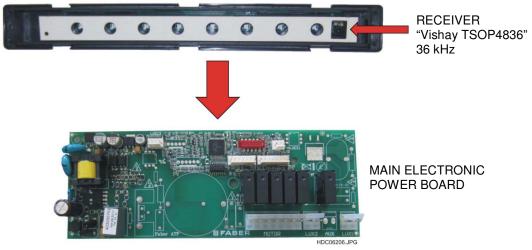
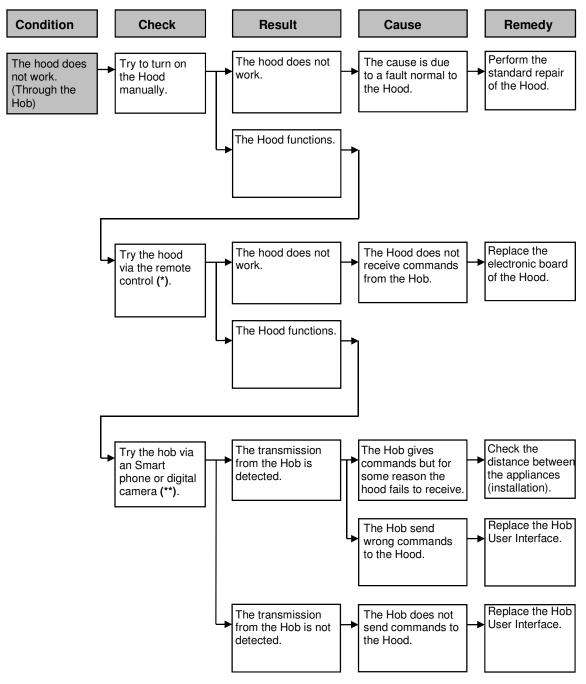


Fig. 54

8 - HOB / HOOD TROUBLESHOOTING

Troubleshooting below is related to connection failures Hob - Hood. For more information about troubleshooting for the Hob and the Hood involved also see the Service Manual on the Hob and the Hood in TDS related to various models.



- (*) NOTE 1: The easiest and most effective way to find the fault, in the case of a connection problem Hob - Hood, is to use the remote control to test the operation of the hood (see Chapter 10.1). - In case of hood with dual receiver (example models "T Shape" with a receiver front and one at the bottom) is necessary to try each receiver individually shielding the other.
- (**) **NOTE 2**: The way to find the fault is Hob trasmission, is to use an Smart phone or digital camera to test the trasmission of the hob (see Chapter 10.2).

9 - TESTS FOR TROUBLESHOOTING

9.1 - TEST THE HOOD WITH THE REMOTE CONTROL

In case of doubt about the operation of the IR receiver on the hood, you can try using the remote control supplied as an option in the hoods on after checking is enabled (see Chapter 3.3 - REMOTE CONTROL ACTIVATION / DEACTIVACTION).

9.2 - TEST THE INFRA-RED SIGNAL HOB WITH AN SMART PHONE OR DIGITAL CAMERA

In normal case, the light of the cooker hood is switched on automatically via infra-red signal, when the induction hob is activated (3 impulses in 30 seconds).

When the light isn't on:

Control the installation of the appliances for a failure-free IR-signal-transmission (see chapter 2.3.2 -INTERFERENCE OF PANS IN THE RECEPTION OF HOODS).

Check the function of receiver on the cooker hood via remote control (see chapter 10.1 - TEST THE HOOD WITH THE REMOTE CONTROL).

Control the IR-signal on the induction hob via smartphone, digital camera or Infra-red-Indicator-test carte (e.g. IRI-4400, wavelength 830 - 1100nm).

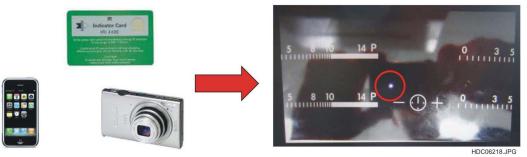


Fig. 55

10 - TOOLS FOR TROUBLESHOOTING

10.1 - REMOTE CONTROL TO TEST THE HOOD

The types of valid remote control to test the receiver of the hood are those indicated in the instruction manual refers to the various hoods provided as an option (see below for examples).



Fig. 56



Fig. 57

11 - Appendiex for new rage of Hobs

Hob Picture	Brand	H ² H_2015_Product Number Code	H ² H_2015_Model denomination
· · ·	Electrolux	949596335	EHM6532FHK
	Electrolux	949596371	EHM6532IHK
	AEG	949597001	HK6532H2FB
	AEG	949597002	HK6532H2XB
t igenerate to	AEG	949597003	HK6532H6XB
	Electrolux	949596337	EHI6532FHK
· · · · · · · · · · · · · · · · · · ·	Electrolux	949596340	E6353FHK
<u>-</u>	Electrolux	949596342	EHN6532FHK
	Electrolux	949596343	EHN7532LHK
	Electrolux AEG	949596344 949597004	E6853FOK HKL65310FB
	AEG	949597004	HKL65310XB
	AEG	949597007	HKL65312IB
	AEG	949597008	HKL65312XB
	AEG	949597009	HKL65316XB
	Electrolux	949596347	EHH6540FHK
	Electrolux Electrolux	949596348 949596349	EHH6540FHK EHH6540FHK
	Electrolux	949596350	EHH9654FHK
	Electrolux	949596351	EHH4654HFK
	Electrolux	949596353	EHH6540FHK
	Electrolux	949596354	EHH6540F8K
	Electrolux	949596327	EHH6540X8K
	Electrolux	949596325	EHH6540I8K
	AEG AEG	949597010 949597011	HK6542H0FB HK6542H0FB
	AEG	949597012	HK6542H0FB
	AEG	949597013	HK6542H0IB
	AEG	949597014	HK6542H0XB
	AEG	949597015	HK6542H0XB
	AEG	949597016	HK6542H6IB
г п ≞ `	Electrolux	949596355	EHI6540FHK
<u>+</u> ()	Electrolux	949596356	E7354LHK
	Electrolux	949596324	KTI6500XE
	Electrolux	949596323	KTI6500E
\div	AEG	949597024	HKL65410FB
L	AEG	949597025	HKL65410XB
	AEG	949597026	HKL65416FB
	AEG	949597017	HK6542H1FB
	AEG	949597018	HK6542H1FB
- 「 「 「 」 、 「 」 ブ 」 「 」 「 」 」 「 」 」 」 」 」 」 」 」 」 」	AEG	949597019	HK6542H1FB
	AEG	949597020	HK6542H1IB
	AEG	949597021	HK6542H1XB
Contract (Contract)	AEG	949597022	HK6542H8XB
	AEG	949597023	HK6542H9XB
	Electrolux	949596328	EHH8540I8K
\bigcap	AEG	949597028	HK8542H0FB
	AEG	949597030	HK8542H1XB
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Technical Support - BSP

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	Electrolux	949596320	KTI8500E
	AEG	949597031	HK8542H0FB
	AEG	949597032	HK8542H0FB
	AEG	949597033	HK8542H0IB
	AEG	949597034	HK8542H0XB
· · ·	AEG	949597035	HKL85410FB
$+$ $\left(\frac{\lambda}{2} \right)$	AEG	949597036	HKL85410FB
	AEG	949597037	HKL85410IB
	AEG	949597038	HKL85410XB
	AEG	949597039	HKL85416IB
<u>10</u> 80	Electrolux	949596361	EHL8550FHK
	Electrolux	949596362	EHL8550FHK
$-\frac{1}{1}$	AEG	949597041	HKM85510FB
	AEG	949597042	HKM85510FB
1	AEG	949597043	HKM85510IB
	AEG	949597044	HKE845H0XB
• • • • • • • • • • • • • • • • • • •	AEG	949597045	HKM85510XB
Г – <mark>89.</mark> мини	Electrolux	949596363	EHI8550FHK
$-\frac{1}{\frac{1}{2}}$ $-\frac{1}{\frac{1}{2}}$	Electrolux	949596364	EHI8550FHK
	Electrolux	949596365	EHI9855HFK
	AEG	949597047	HKL85510IB
	AEG	949597048	HKL85510XB
г. т. <mark>А</mark> . г. ^с т.	Electrolux	949596366	EHH9552FHK
	AEG	949597049	HKM95510FB
	AEG	949597051	HKM95510XB
	AEG	949597052	HKM95513FB
	AEG	949597053	HKM95513IB
	AEG	949597054	HKM95513XB

12 - REVISIONS

Revision	Date	Description	Author	Approved by - on
00	10/2013	Document Creation	FV	
01	08/2014	Extention models: - Modified chapter 2.3.1. - Modified chapter 3.2.2. - Modified chapter 3.3. - Modified title of chapter 4. - Modified title of chapter 5. - Modified chapter 6. - Modified chapter 11.	FV	
02	09/2014	Added New rage of Hobs and Hoods - Added the wire less statement and symbol in chapter 4 - Added New rage of Hobs as appendix in Page 22 & 23 - Added New rage of Faber Hoods in chapter 5.1. Reordered the pictures for more clarity - Added New rage of Elica Hoods in chapter 5.2. Reordered the pictures for more clarity - Appendiex for new rage of Hobs in chapter 11 - Revision table moved to chapter 12, Page 24	BSP	