Service Service Service



HD9220/20 HD9220/21 HD9220/22 HD9220/23 HD9220/24

Philips Consumer Lifestyle

ServiceManual

PRODUCT INFORMATION

Safety info

- This product meets the requirements regarding interference suppression on radio and TV.
- After the product has been repaired, it should function properly and has to meet the safety requirements as officially laid down at this moment.

- SAP coding : HD9220/20

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OPTIONAL (accessories)

- Baking dish 4222 459 52761

TECHNICAL INFORMATION

- Product dimensions (W \times H \times D) : 287 \times 315 \times 384 mm

Cord length

- Materials : Outer skin : Plastic (PP) : Pan : Aluminized s

: Pan
: Basket
: Basket mesh
: Coating
: Aluminized steel
: Stainless steel
: PTFE coating

- Capacity : 2.2 liter

(till max indicator)

: I meter

Weight : 7.0 kg
Coloursetting : Black
Temperature : 80 till 200 °C

- Fuse cut-off temp. Motor : $145 \,^{\circ}\text{C}$ TCO : $190 \,^{\circ}\text{C}$

	Voltage	Frequency	Power consumption
WEU, EEU, SEU, Nordic,TR	220 - 240 V	50 Hz	1425 W
UK, DB, SGP, HK, MY, IN, TH, AU, NZ, ZA	220 - 240 V	50 Hz	1425 W
AR	220 V	50 Hz	1425 W
CN	220 V	50 Hz	1300 W
TW	110	60 Hz	1425 W
SA, KR	220 V	60 Hz	1425 W

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Subject to modification



IMPORTANT:

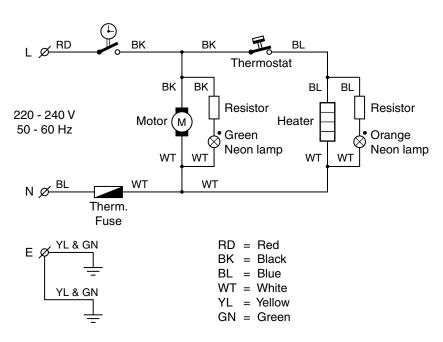
When you replace the pan (basketholder) or basket, first check production week on the bottom of the appliance to find out which part(s) you need to order:

HD9220/2x	Pan		Basket	
1111	4222 459 54131	and	4222 459 54111	Due to compatibility issues, make sure you order both components
1111>1136	4222 459 54131	or	4222 459 49081	Components are compatible no need to be ordered both at once
>1136	4222 459 54131	or	4222 459 54111	Components are compatible no need to be ordered both at once

Electrical circuit

When the appliance does not work, check the electrical circuit.

Open de lid panel always on the underside. Always replaces this panel in case of damaged, scratches body or broken click connection.



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Part/ System	Test	Possible deviation	Analyses	Replace (depending of the analyses outcome)
Timer	Check if the green light is lit, and if you can hear the timer	The green light is not lit but the timer is ticking	Check the timer-switch and the fuse with a multimeter	Timer/Fuse
	ticking	The green light is lit but the timer is not ticking	Timer is defective	Timer
Thermostat	Set the temperature at 80 °C and check if the heating element is getting warm (Check input power approx. I425 W) The green light should be lit and the orange light should switch off after it reaches 80 °C	Both green and orange light are lit but there is no heating	Check the heating element with a multimeter	Heating element
		If the green light is lit and the orange light is off	Check the thermostat with a multimeter	Thermostat
		If both the green and orange light are off	Check the timer and fuse with a multimeter	Timer/Fuse
		The orange light does not switch off after reaching approx. 80 °C	Thermostat is defective	Thermostat
Motor fan assy	Set the timer and listen if the motor is running	Motor is not running	The fan is scraping the housing turning it by hand (Switch off the power when you do this test!)	Motor fan assy
			The fan is not scraping the housing turning it by hand (Switch off the power when you do this test!): Check the motor fan assy, timer and fuse with a multi meter	Motor fan assy / Timer/Fuse
Heating element	Check if the heating element is getting warm (Check input power approx.	If the Orange light is on and the heating element does not heat	Check the heating element with a multimeter	Heating element
	1425 W)	If the heating element does not heat and the orange light is off	Check the timer, fuse and thermostat with a multimeter	Timer/Fuse/ Thermostat
Thermal fuse	Set the timer and check if the green light is lit	Green light is not lit	Check the timer and fuse with a multimeter	Timer/Fuse

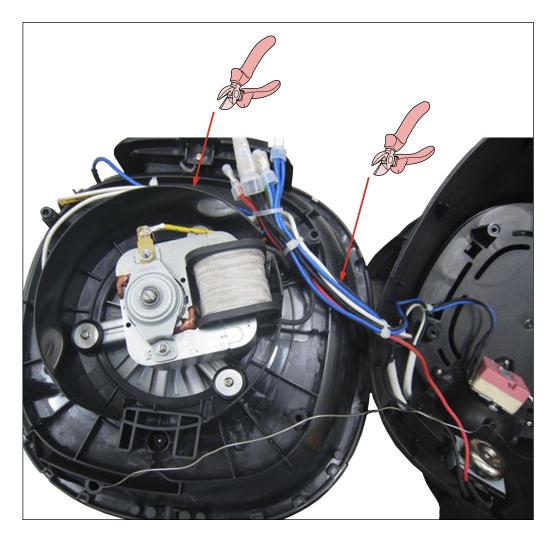
General remark;

When you need to disconnect a wire from the crimp housing, please cut the wire half way (See % in the picture below) and always connect the wires with a new 2 wire crimp housing 4222 459 51851. To crimp the housing use the Lobster AK25 No2 or Muromoto Tekko MR30A Nr 2 with Air pressure = 6 kg/cm².

Crimp instruction CE2

- 1) Strip wires: 16mm (0.63 in) Max. 13mm (0.51) Min.
- 2) Twist the wires together along the entire length of the strip and insert them into crimp housing .
- 3) Center the crimp tool on the sleeve.
- 4) Crimp the housing with 6 kg/cm².

Route the wire route, using 5 tie-wraps according the picture below;

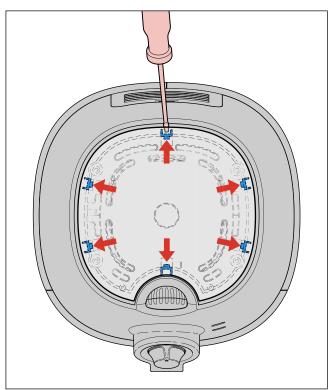


DISASSEMBLY- AND RE-ASSEMBLY ADVICE

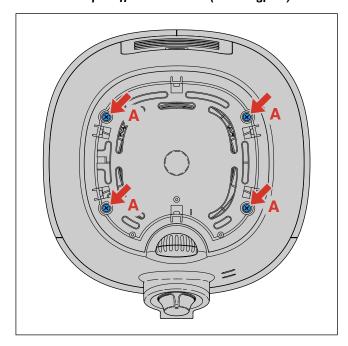
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A. Top cover removal

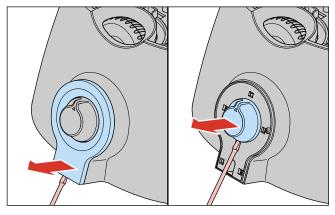
1. Open the cover from the top cover by using a flathead screw driver to open the 6 click connections.



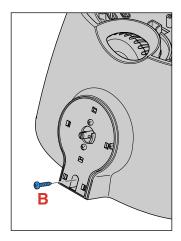
Use a crosshead screw driver to unscrew the 4 screws A.
 Note: When you close the top cover, use a screw torque off 50 till 80 Nm (5 to 8 kgf.cm)



3. Use a flathead screw driver to open the "timer top cover" and pull the knob from the appliance.



4. Unscrew the screw B under the timer top cover.



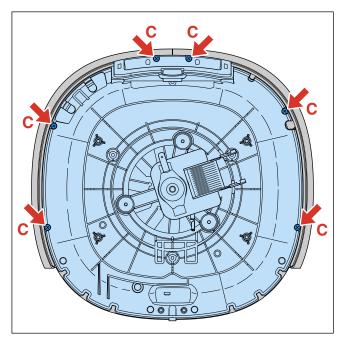
Note: Replace the timer cover and / or the cover in case of damage and / or scratches.

Tip: Open the "timer cover" from the bottom side, to avoid scratches on visible places.

DISASSEMBLY- AND RE-ASSEMBLY ADVICE

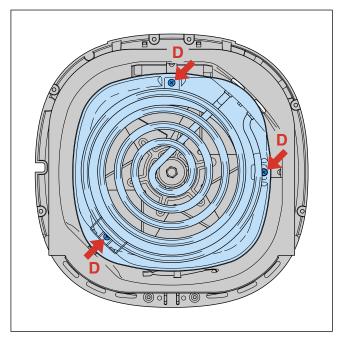
B. Cover housing removal

- I. Follow previous step A
- 2. Open the motor fan assy from the base by unscrewing the 6 screws C. Be aware of the 2 screws under the filter.



C. Heating element + Fan Removeval

- I. Follow previous step A and B
- 2. Undo the heating element from the double heat shield by unscrewing the 3 screws D.

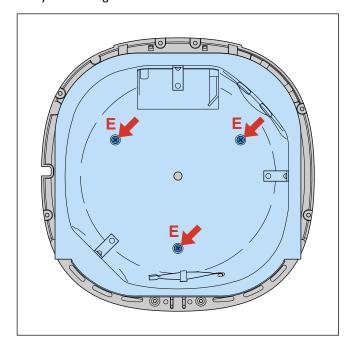


- 3. Cut the 2 heating element wires halfway and remove the heating element.
- 4. Undo the nut from the left screw thread and remove the fan.

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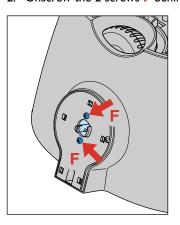
D. Double heat shield removal

- I. Follow previous step A, B and C
- 2. Remove the double heat shield out of the motor fan assy by unscrewing the 3 screws **E**.



E. Timer removal

- I. Follow step A
- 2. Unscrew the 2 screws F behind the timer knob.

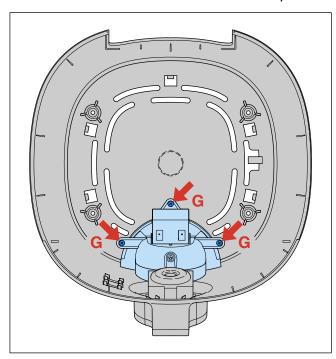


3. Remove the wires of the timer.

DISASSEMBLY- AND RE-ASSEMBLY ADVICE

F. Thermostat removal

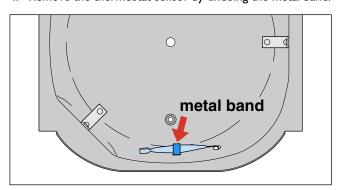
- I. Follow previous step A
- 2. Remove the 3 screws G from the thermostat assy.



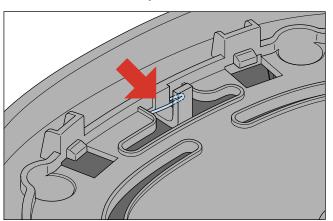
3. Follow previous step **B**, **C**, **D**By step **C** do not cut the wires.

Note: be careful with the wire/heating element connecting, this connection is fragile.

4. Remove the thermostat sensor by undoing the metal band.



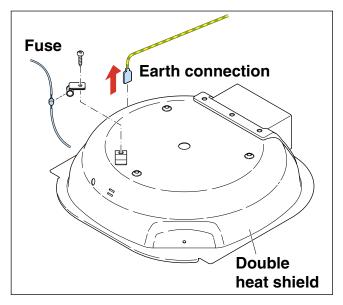
Note: Please make sure while re-assembling the new thermostat that the routing will be done as shown in below picture.



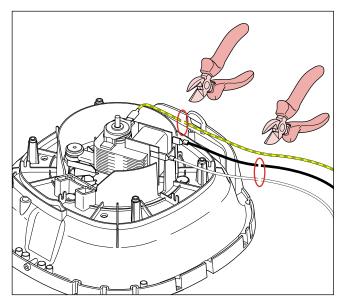
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G. Motor assy removal

- Follow previous step A, B, C, D
 By step C do not cut the wires.
- 2. Remove the thermostat sensor (See instruction **F** 4)
- Remove the fuse and the earth connection from the double heat shield.



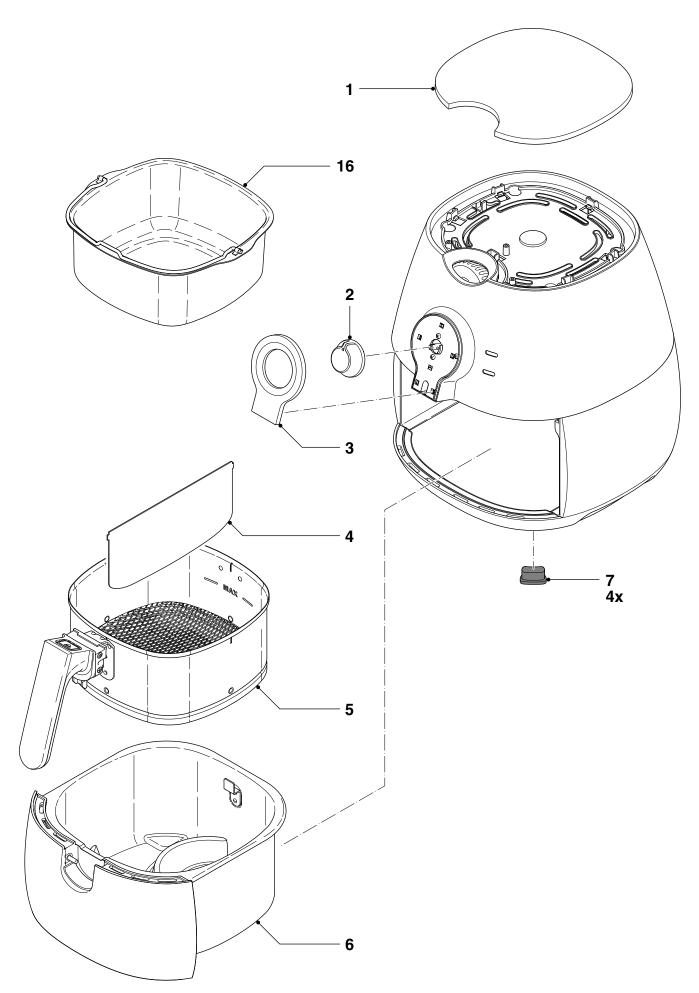
4. Cut the motor wires half way and remove the motor fan assy.



Pos	Service code	Description		Remark	Production
1 2 3 4	4222 459 49121 4222 459 49111 4222 459 49211 4222 459 51901	Cover Timer knob Timer cover Food separator	Black Black Black		
5	4222 459 49081	Basket	Black		>WK1111 & <wk1136< th=""></wk1136<>
5 6 7 7 8	4222 459 54111 4222 459 54131 4222 459 51911 4222 459 54671 4222 459 51241	Basket v3 Pan v3 (Basket holder) Rubber foot Rubber foot Top cover *	Black Black Black	HV	all other <wkiii6>WKIII7</wkiii6>
8 9 9 10 10	4222 459 55531 4222 459 53251 4222 459 55371 4222 459 49181 4222 459 55381	Top cover * Stainless steel timer Stainless steel timer Fuse incl. wires Fuse incl. wires (new Fuse pos.)	Black	I I 0 V TW only HV LV	<wk1233 >WK1234</wk1233
11 11 12 12	4222 459 49141 4222 459 53381 4222 459 49131 4222 459 55331 4222 459 53391	Fan Heating element Heating element Heating element		50 Hz 60 Hz HV 50 Hz HV 50 Hz HV 60 Hz	<wk1146 >WK1147 <wk1146< td=""></wk1146<></wk1146
12 13 13 13	4222 459 55341 4222 459 49101 4222 459 54891 4222 459 54911 4222 459 54941	Heating element Base Base Base Base	Black Black Black Black	HV 60 Hz EU plug EU plug UK/MEA plug Swiss plug	>WK1147 <wk1146 >WK1147 >WK1147</wk1146
13 13 13 13	4222 459 54971 4222 459 54951 4222 459 55451 4222 459 55461 4222 459 55561	Base Base Base Base	Black Black Black Black Black	Australia plug South Africa plug 110 V Taiwan plug 220 V China plug India plug	>WK1147 >WK1147 >WK1147 >WK1147
13 14 15 15	4222 459 55571 4222 459 53061 4222 459 49201 4222 459 55401 4222 459 53401	Base Thermostat assy incl. knop Motor fan assy Motor fan assy (new Fuse pos.) Motor fan assy	Black Black	Thai plug HV 50 Hz HV 50 Hz HV 60 Hz	>WK1147 <wk1146 >WK1147 <wk1146< th=""></wk1146<></wk1146
15 15 16	4222 459 55491 4222 459 55501 4222 459 52761	Motor fan assy (new Fuse pos.) Motor fan assy (new Fuse pos.) Baking dish		HV 60 Hz I I 0 V TW only	>WK1147 >WK1147
	4222 459 51851 4222 459 51891	10 pieces of 2 wire crimp housing 10 pieces of 2 wire crimp housing			

 $[\]ensuremath{^*}$ From production WK1211 the Green light will be removed.

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