



Philips Domestic Appliances and Personal Care

Service Manual

PRODUCT INFORMATION:

The Foodprocessor is equipped with mechanical and thermal safety switches.

TECHNICAL DATA:

Motor	: universal, radio / TV interference suppressed
Power consumption	: 500 Watt max.
Voltage & frequency	: 220 V, 50/60 Hz - HR 7743 110-127 V, 60 Hz - RI 7743 low 220-240 V, 60 Hz - RI 7743 high
Cordset	: 100 cm, double insulated with moulded on plug
Speed setting	: Smart Process Control
Bowl capacity	: 2.5 L dry ingredients, 1.7 L liquids
Blender capacity	: total jar capacity 2.0 L, 1.5 L effective
Speeds unloaded	: blender drive shaft 19500 rpm (max) accessories drive shaft from 660 rpm to 2150 rpm, depends on application
Weight in fancy box	: 5.500 g
Dimensions fancy box (l x w x h)	: 460 mm x 375 mm x 315 mm

SAFETY:

Automatically resettable	: protects motor against overheating thermal cut out
Built – in safety lock	: detects wheter lid & bowl are assembled
Motor brake system	: stops the appliance within 1.5 seconds (HR 7743)

COLOURS:

White with Vapor Dusk accents, clear transparant bowl & jar

MATERIALS USED:

- Bowl, bowl lid, blender jar & safety cover,	: SAN JE lid
- Housing, screw cap, blender lid, pusher,	: PP inlay bowl handle
- juice extractor (sieve, pusher), citrus press (sieve & cone)	: PP
- Panel foil	: Santoprene
- Kneading accessory	: PP / 30% chalk
- Balloon beater	: POM
- Insert holder, handgrip blender jar	: ABS
- Adjustable slicing disc	: POM, ABS, stainless steel

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.

SERVICE INFORMATION :

- The blender coupling on the motor shaft has been provided with a customary left-handed thread.
The drive coupling (item 10) can be detached by means of a hammer and a screwdriver. Strike the screwdriver with a short sharp blow and remove the drive coupling, or block the acc. drive wheel (item 17) and thereby the rotor shaft, by sticking a pin through the hole (5 mm dia. – marked with an arrow) in the bottom plate.
- The assembly of the accessories depends on the national version.
- For specific versions, the component configuration may differ from the one shown on the exploded view. However, the actual components can be distinguished by their code numbers.
- Make sure that all functions, including the safety devices, are working correctly after you have completed the repair.
- To check the processes of smart control, please look at the described functions on the next page.

Automatic resettable cut-out (part of item 11)

To prevent damage due to overheating, the appliance has been equipped with an automatic cut-out system. This system will automatically cut off the power supply when the appliance overheats.

If the appliance suddenly stops running:

- Unplug the appliance
- Switch off the appliance
- Let the appliance cool down for 15 minutes
- Plug the appliance in again
- Switch the appliance on again

Safety lock (item 7)

Place the lid on the bowl in the right position. The appliance will only function if the line on the appliance is directly opposite the mark on the lid of the food processor bowl and the same holds for the other accessoires. The built-in safety lock will now be deblocked and you can turn the appliance on. Note that if both the blender jar and the bowl have been correctly mounted, only the blender will function.

Important:

If the appliance is used without the blender jar, the appliance will not function, when the blender coupling (item 10) has not been protected by the blender cover (item 1).

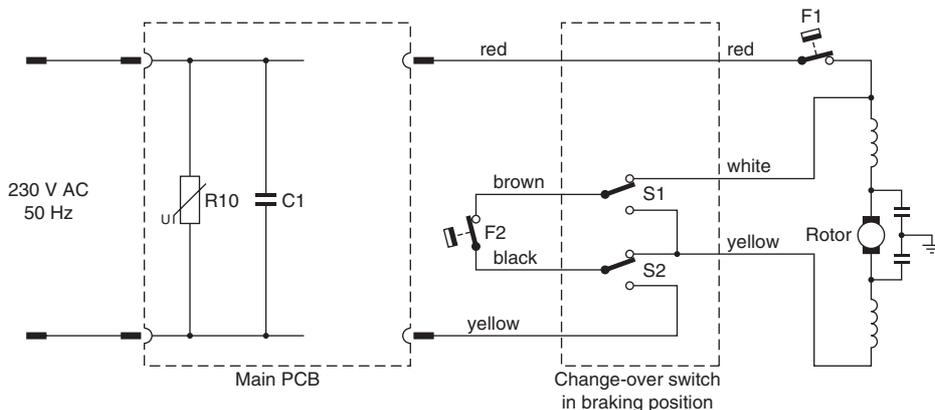
Note:

The blender cover can only be removed, when the bowl including the bowl lid is not mounted on the foodprocessor.

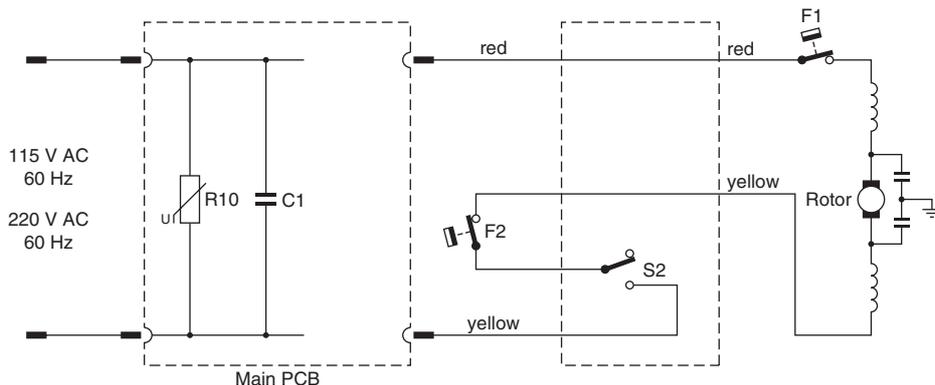
How to set the belt tension:

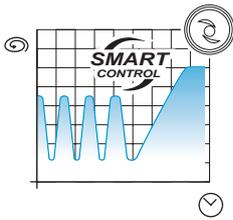
- Step 1: Give 30 N pretension force on the adjusting plate to minimise the distances between the belt and the belt wheels
- Step 2: Reduce the tension force from 30 N down to 10 N which is the required belt drive force for the appliance.
- Step 3: Fix the adjusting screw on the adjusting plate when the tension force reaches the value of 10 N (after coming down from 30 N!)

Electrical scheme of HR 7743



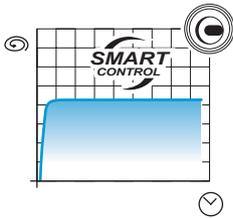
Electrical scheme of RI 7743





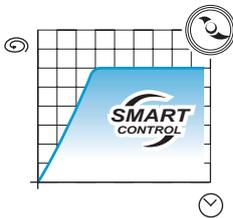
Chopping process

The chopping process starts with four pulses. After that, the food processor will pick up speed until it runs at maximum power. He will continue to run at this speed until the STOP button is pressed. The speed can be decreased in three steps by pressing the – button.



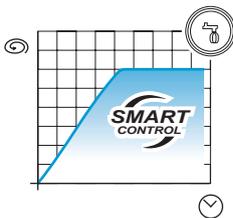
Shredding and slicing process

When the shredding and slicing button is pressed, the food processor will start to run at a constant speed to produce the best end results with the adjustable slicing disc or the inserts. The food processor will continue to run at this constant speed until the STOP button is pressed. The speed can be increased or decreased in three steps by pressing the + button or – button.



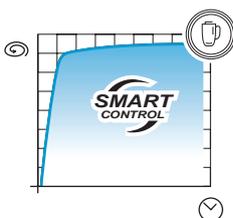
Kneading process

The kneading process starts with a Soft Start and then increases to a powerful kneading speed to achieve a good end result in a short time. The food processor will continue to run at this speed until the STOP button is pressed. The speed can be decreased in three steps by pressing the – button.



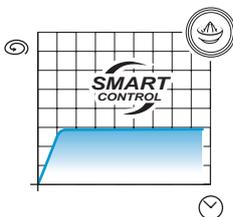
Whisking process

When the whisking process is selected the appliance starts with a 10 second Soft Start. The speed will gradually increase until the maximum working speed for perfectly whisked egg whites or whipped cream has been reached. The speed is maintained until the STOP button is pressed. The speed can be decreased in three steps by pressing the – button.



Blending process

To prevent splashing, the blending process features a Soft Start. After a few seconds the speed gradually increases to maximum speed to produce a perfectly smooth result. The blender will continue to run at this speed until the STOP button is pressed. During the blending process the speed can be decreased in three steps by pressing the – button.



Citrus pressing process

The citrus pressing process features a Soft Start, which means the cone starts rotating at a low speed guaranteeing a pleasant sensation and a perfect result. The food processor will continue to run at this speed until the STOP button is pressed. The speed can be decreased in three steps by pressing the – button.

PARTS LIST HR 7743 / RI 7743

Pos.	Description	Service Code
1	Blender cover	4206 133 92340
2	Screw cap	4206 133 92780
3	Top housing printed	4206 133 92660
4	Panelfoil assy	4206 136 52570
5	PCB controll assy high voltage (HR 7743 / RI 7743 high)	4203 058 92780
	PCB controll assy low voltage (RI 7743 low)	4203 058 92750
6	Housing parts (RI 7743)	4206 136 54090
	Housing parts (HR 7743)	4206 136 54040
7	Safety switch lever	4206 136 54050
8	PCB brake Latam (HR 7743)	4203 058 92800
	PCB safety switch Brazil (RI 7743 high / low)	4203 058 92740
10	Blender coupling	4206 136 52560
11	Motor assy - high voltage with brake (HR 7743)	4206 136 52080
	Motor assy - low voltage without brake (RI 7743 low)	4206 136 51180
	Motor assy - high voltage without brake (RI 7743 high)	4206 136 51190
12	Motor coupling assy	4206 136 54060
13	Mounting plate	4206 136 54070
14	Adjusting piece	4206 130 07630
15	Motor screw	4206 133 53520
16	Tooth belt	4206 133 53620
17	Belt wheel	4206 133 92490
18	Single speed gear	4206 136 54100
19	Cordset LATAM high voltage	4206 100 02150
	Cordset Argentina	4206 100 02140
	Cordset Brazil	4206 100 01320
30	Press cone	4206 133 93040
31	Sieve	4206 136 52000
32	Pusher closed bowl	4206 133 93560
33	Bowl lid	4206 136 52600
34	Lid bearing	4206 133 92790
35	Closed bowl	4206 136 52590
39	Insert granulating	4203 040 03390
40	Insert shredding fine	4203 040 03980
42	Insert shredding medium	4203 040 03360
43	Insert shredding coarse	4203 040 03410
44	Insert holder	4206 136 52810
45	Adjustable slicing disc	4206 136 52790
46	Plastic kneader	4206 133 92950
47	Metal knife (incl. protecting cover)	4206 136 51950
48	Emulsifying disc	4206 133 92830
49	Toolholder	4206 136 51990
55	Blender safety lid	4206 133 94230
56	Blender lid	4206 133 91670
57	Blender jar	4206 136 53200

