



Philips Consumer Lifestyle

# Service Manual

## PRODUCT INFORMATION

- 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.

## TECHNICAL INFORMATION

- Colour : Merlin blue metallic
- Battery : NiMH 14.4 V 800 mAh soft-pack
- Charging time : 4 hrs
- Run time : 50 min
- Moving speed : 30 cm/sec
- Navigation : Random walker 3-pattern combination
- Special features : Stairs detector
- Sensors : Infrared sensors for detecting and avoiding stairs
- Accuracy Hardfloor : Straight line deviation  $\pm 8$  cm per each 90 cm
- Dustbin capacity : 0.2 L
- Sound level : 60 dB
- Size : 300 x 50 mm
- Height : 50 mm
- Net weight : 1.3 kg

## INCLUDED ACCESSORIES

- AC power adaptor
- 2 x Exhaust filter
- 2 x Side brushes

## REPAIR INSTRUCTION

- No specific issues

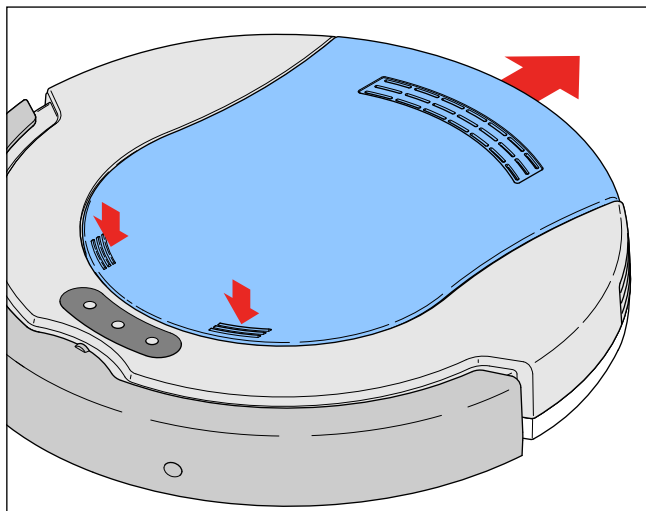
## OPTIONAL (accessories)

- No specific issues

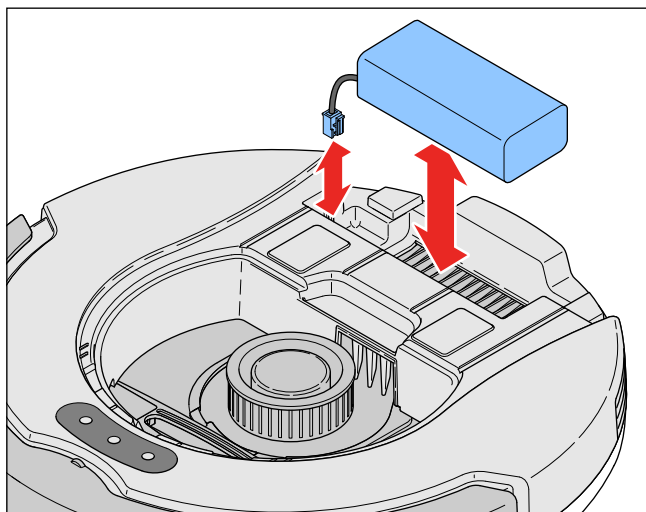
## DISASSEMBLY- AND RE-ASSEMBLY ADVISE

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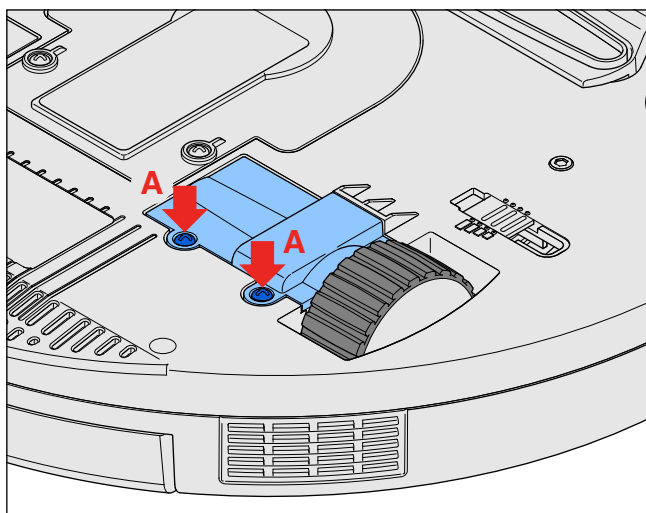
- First make sure that the appliance is unplugged.
- To empty and/or replace the Dustbin assy (1), the Top Cover (4) has to be removed (see picture).



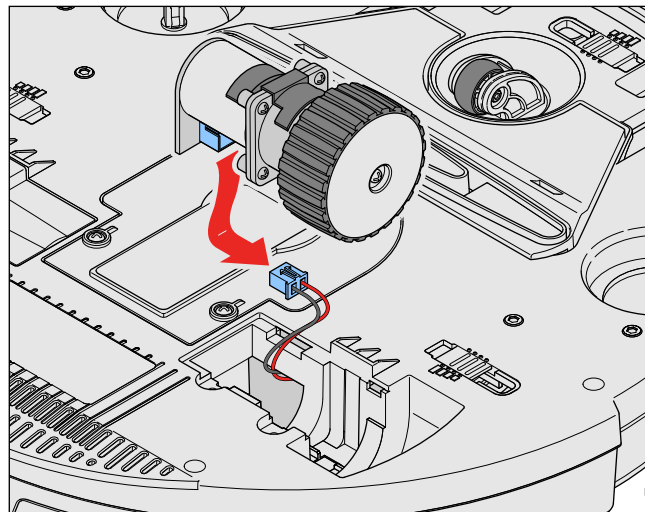
- To (re)place the Rechargeable battery, (5) (dis)connect the connector (see picture).



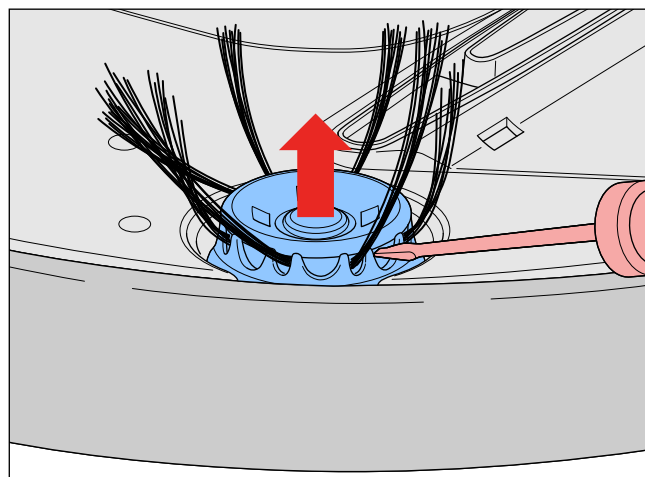
- To repair the Wheel sets (10 or 13), turn the appliance upside down on a clean surface.
- Remove the 2 screws A and take the corresponding Wheel cover (11 or 12) out (see picture).



- Disconnect the connector and replace the wheel set.



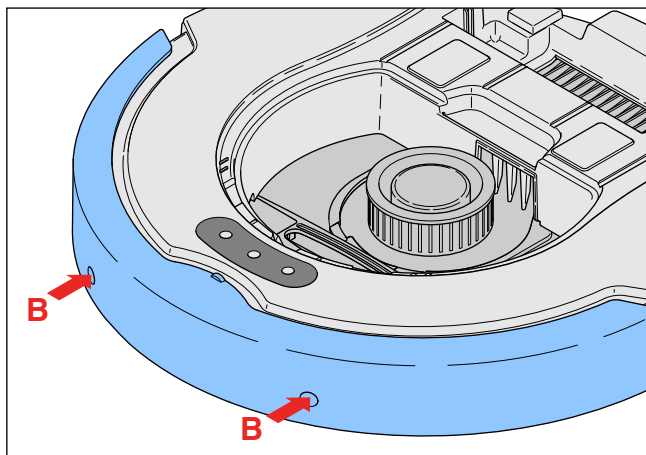
- When replacing the wheel set make sure that the Rubber wheel covers (9) are placed in the correct way.
- The Side brushes (6) can easily be removed/replaced. Put a screwdriver under the plastic part and move the brush upwards.



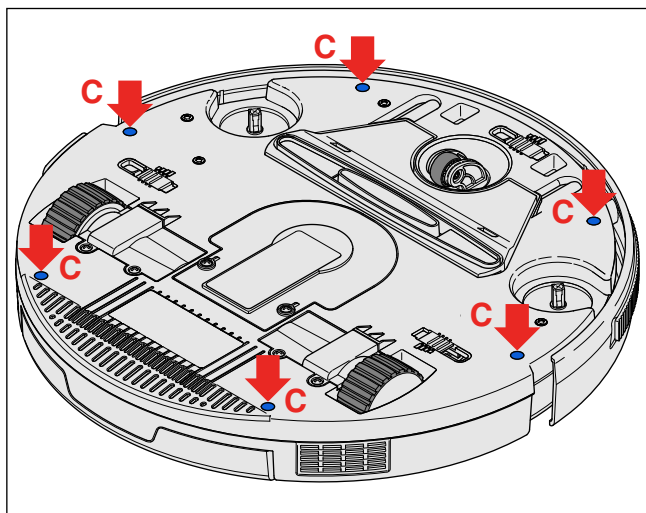
- To place a side brush, put it in the right position and click it onto the axle.
- When you use new side brush for the first time, push the brushes to the outside and place the robot on the floor.

## DISASSEMBLY- AND RE-ASSEMBLY ADVISE

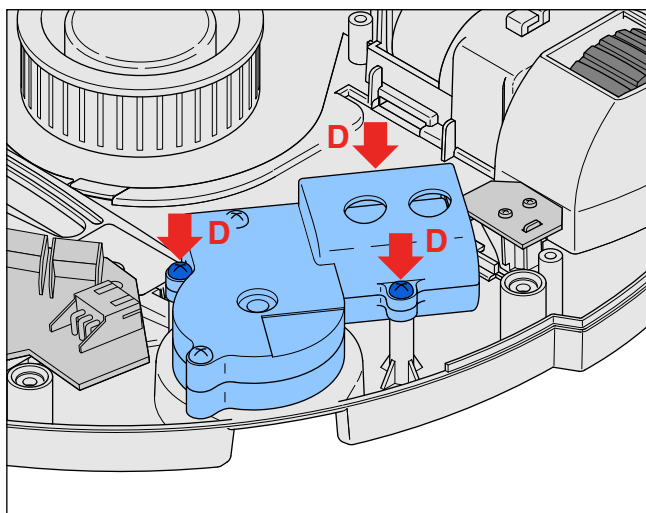
- To reach the inner parts for repair, the Top base (18) has to be removed.
- First remove the dustbin assy and battery, then remove the Front bumper (7) by removing the two screws **B** (see picture).



- After removing the front bumper turn the appliance upside down on a clean surface and remove the 6 screws **C** (see picture). Then turn the appliance back and remove the top base.

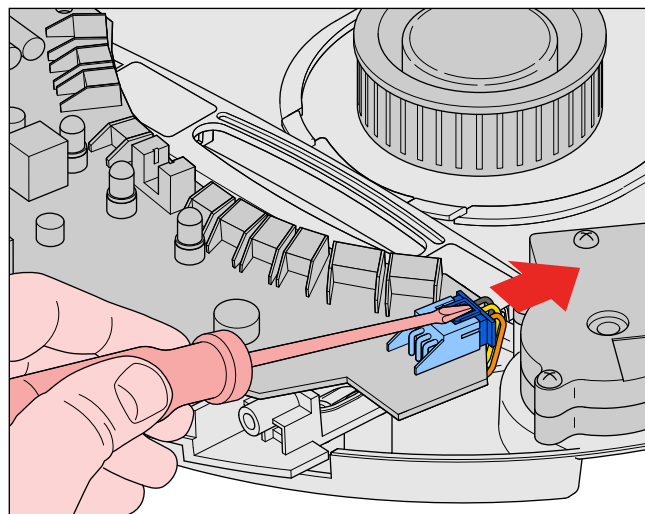


To remove/replace a brush set of the side brushes, remove the 3 screws **D** (see picture).

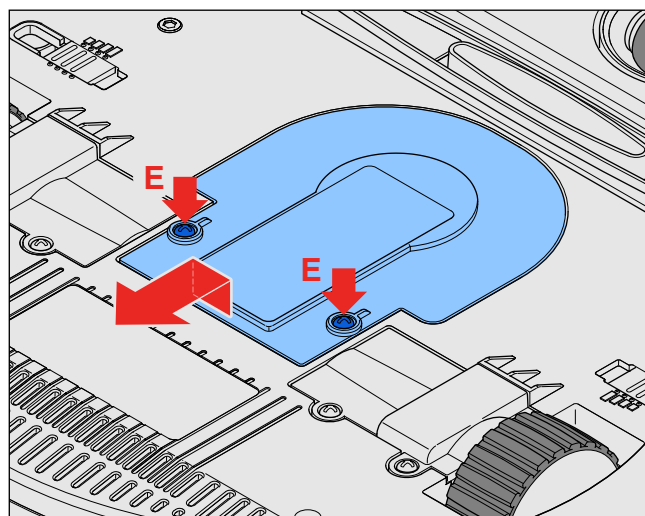


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- The PCB main (14) is a complete assy, and can be replaced. A screwdriver can be used to remove the connectors. (see picture)



- To replace the Fan assy (23).
- Turn the appliance upside down on a clean surface. Remove the top base as described before, then remove the 2 screws **E** with a small screwdriver and replace the fan assy (wiring included) (see picture).



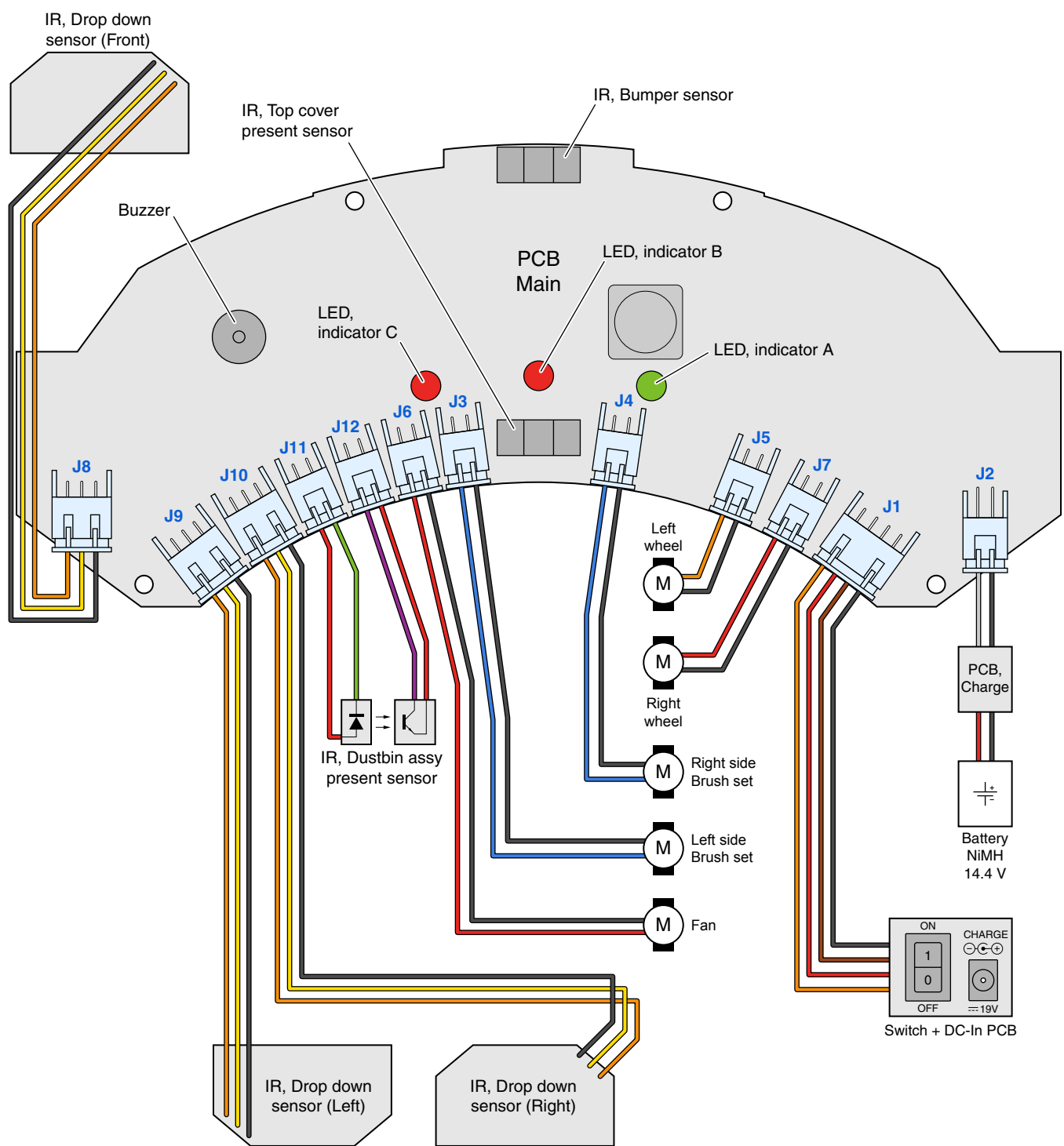
This chapter summarises the most common problems you could encounter while using your robot. If you are unable to solve the problem with the information below, please contact the Consumer Care Centre in your country.

Problem	Cause	Solution
The robot does not start cleaning when I press the on/off switch.	The rechargeable battery is empty.	Charge the rechargeable battery (See User Manual, chapter 'Preparing for use', section 'Charging').
	The small plug is still inserted in the socket on the robot and the adapter is still inserted in the wall socket.	The robot does not work on mains power. It only works on its rechargeable battery and always has to be disconnected from the mains before use.
The robot does not work and indicator A flashes.	The dust container compartment cover is not present or is not closed properly.	When the dust container compartment cover is not present or is not closed properly, the robot does not work as a safety precaution. Make sure you place the dust container compartment cover on the robot properly (See User Manual, chapter 'Before first use', section 'Inserting the rechargeable battery')
The robot does not pick up dirt when I switch it on.	The suction opening in the bottom is clogged.	Clean the suction opening (See User Manual, chapter 'Cleaning and maintenance', section 'Cleaning the suction opening and wheels').
Indicator C lights up continuously when the robot is switched on.	The battery is low.	Charge the rechargeable battery (See User Manual, chapter 'Preparing for use', section 'Charging').
	One or both wheels are stuck.	Press the on/off switch to switch off the robot. Remove the fluff, hair thread or wire that is caught around the wheel suspension.
	One or both side brushes are stuck.	Clean the side brushes (See User Manual, chapter 'Cleaning and maintenance', section 'Cleaning the side brushes').
	The bumper is stuck.	Press the on/off switch to switch off the robot and pull the bumper free from the body of the robot.
	You lifted the robot while it was switched on.	Press the on/off switch to switch off the robot. Then press the on/off switch again to make it resume cleaning in the wanted spot.
The robot does not clean properly.	The bristles of one or both side brushes are crooked or bent.	Replace the side brushes (See User Manual, chapter 'Replacement', section 'Replacing the side brushes').
	The filter in the dust container is dirty.	Clean the filter in the dust container with a brush with soft bristles (See User Manual, chapter 'Cleaning and maintenance', section 'Emptying an cleaning the dust container').
		If brushing does not help to clean the filter, replace the filter with a new one (See User Manual, chapter 'Replacement', section 'Replacing the filter').
	The suction opening in the bottom is clogged.	Clean the suction opening (See User Manual, chapter 'Cleaning and maintenance', section 'Cleaning the suction opening').
The battery can no longer be charged or runs empty very fast.	The rechargeable battery has reached the end of its life.	Replace the rechargeable battery (See User Manual, chapter 'Replacement', section 'Replacing the rechargeable battery').
The robot does not clean and indicator B lights up continuously.	The dust container is not present.	Place the dust container in the dust container compartment properly. Make sure you close the dust container compartment cover properly.

In case of straight line driving issues:

Check and clean the front wheel and both side brushes, after cleaned them the robot will drive better in a straight line.

The drop off sensors are fixed on the 2<sup>nd</sup> position, this cannot be changed by customer and/or repair centres.



Pos	Service code	Description	Remark
1	4222 459 54051	Dust container	
2	4222 459 54021	Filter	
3	4322 006 24761	Adapter	ZDD190060
4	9965 100 56356	Top cover	Merlin blue metallic
5	4322 006 24651	Rechargeable battery	NiMH battery
6	4222 459 54031	Set of side brushes	
7	9965 100 57648	Front bumper	
9	9965 100 53909	Rubber wheel covers	
10	9965 100 53912	Right side wheel set	
11	9965 100 53919	Wheel cover left	
12	9965 100 53903	Wheel cover right	
13	9965 100 53908	Left side wheel set	
14	<b>9965 100 61852</b>	PCB main	
15	9965 100 53907	Drop down sensor (Right)	
16	9965 100 53906	Right side brush set	
17	9965 100 53911	Drop down sensor (Front, Left)	
18	9965 100 56355	Top base	Sky blue metallic
19	4322 006 24681	Rocker switch harrier	
20	9965 100 53916	Left side brush set	
21	9965 100 53915	PCB charge (for battery)	
22	9965 100 53913	Lower housing (Bottom Cover)	
23	4322 006 24771	DC brushless fan	S99-0001381-G91
24	9965 100 56354	EU plug	

