

## Maintenance of L series

### I. Main components of machine:



Working voltage of adaptor: 100-240V~ 50/60Hz

Rated voltage of machine: 14.4 V

Rated power: 24 W

Dustbin capacity: 350ml

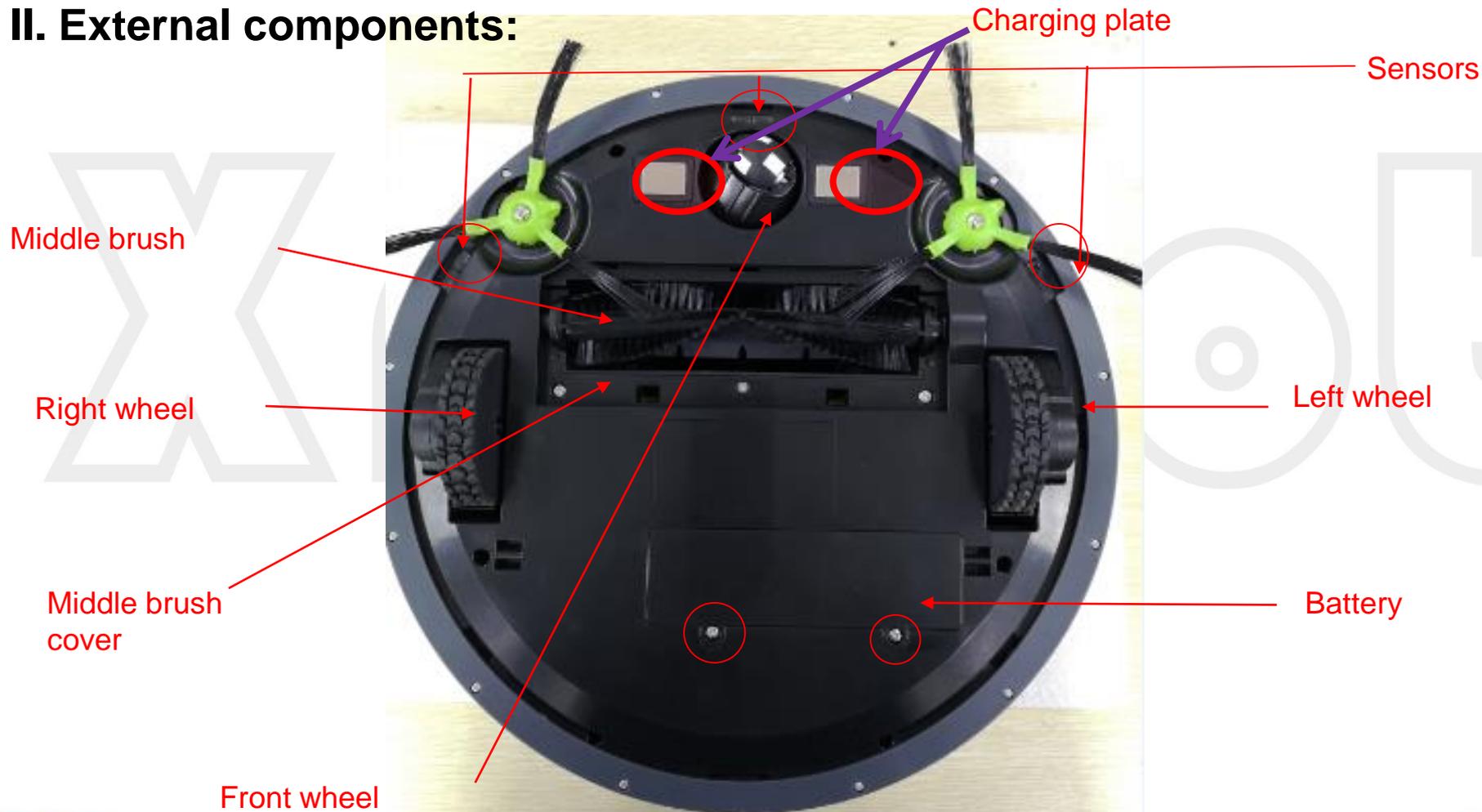
Battery: Li batteries 2600MAH

Noise:  $\leq 65$ dB

Main components: remote control, adaptor, dock station

## Maintenance of L series

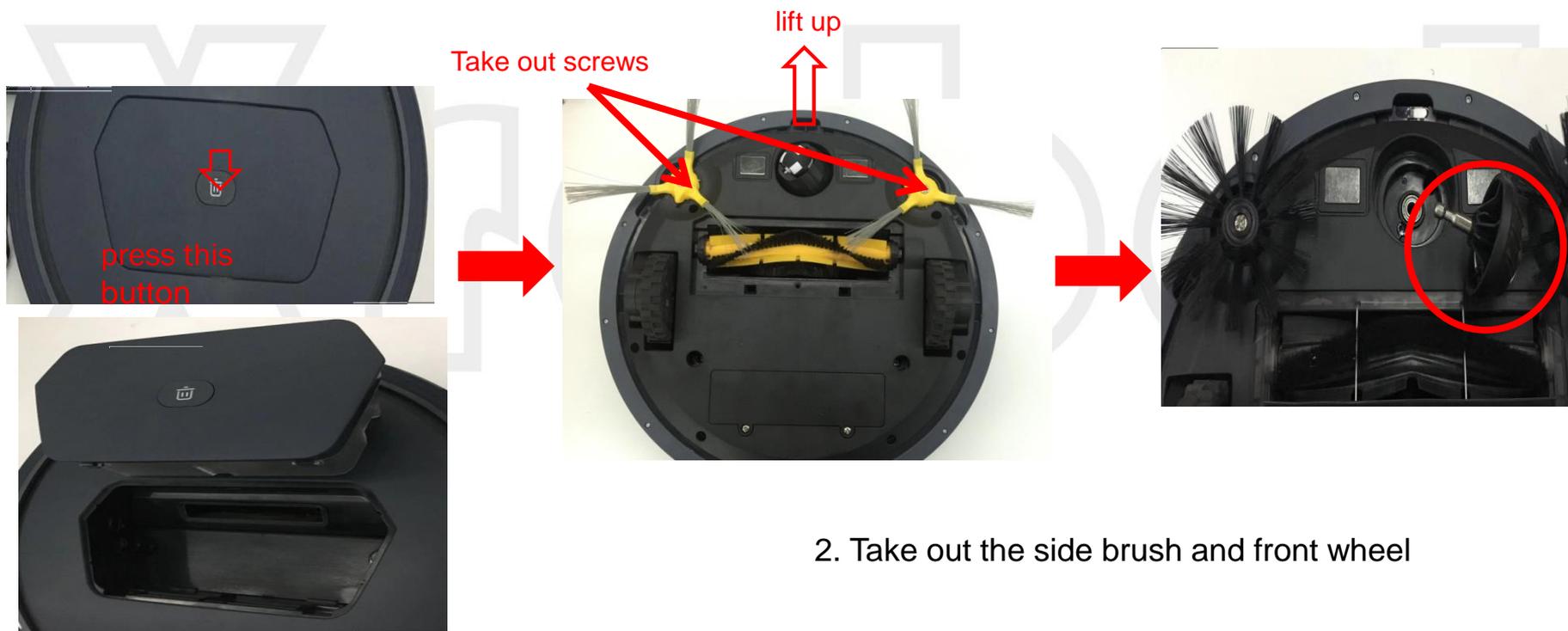
### II. External components:



## Maintenance of L series

### III. Disassemble:

3.1 Take dustbin, side brush , and front wheel:



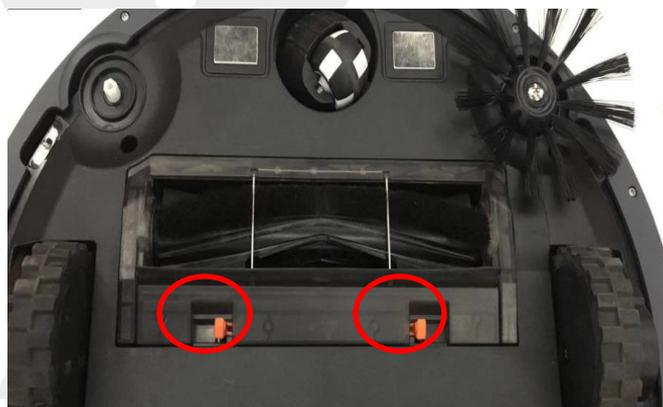
1. Take out the dustbin

2. Take out the side brush and front wheel

## Maintenance of L series

### III.Disassemble:

3.2 Disassemble the main brush assembly:



1. Take out the 2pcs screws as indicated

2. Take out the 2pcs screws as indicated

3. Pull out the socket of main brush motor

## Maintenance of L series

### III. Disassemble:

Disassemble the main brush



1. Push the buckle to inside

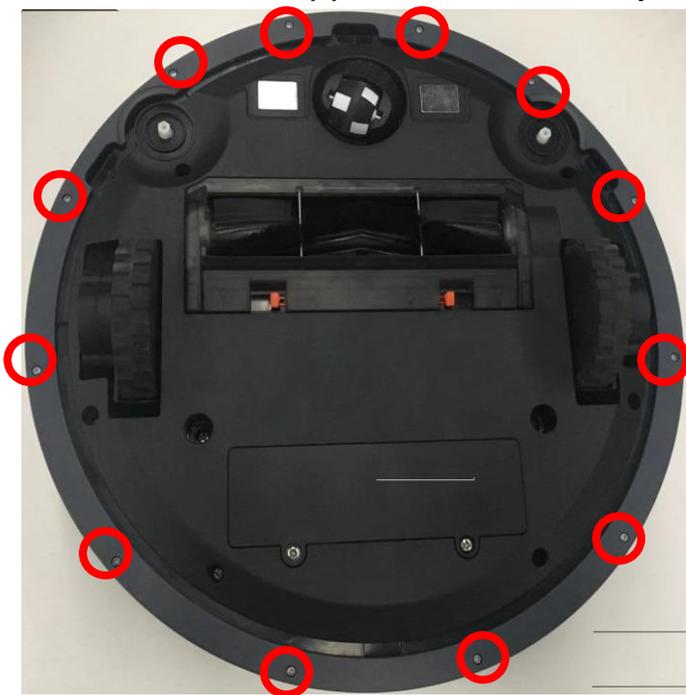
2. Take out the middle brush

Please clean the hairs of main (remove the end-side lid of the shaft with pliers to remove the inside hair).

## Maintenance of L series

### III. Disassemble:

3.3 Take out upper cover assembly and whole bumper



Take out the 12pcs screws as indicated by red ring on above picture

## Maintenance of L series

### III. Disassemble:

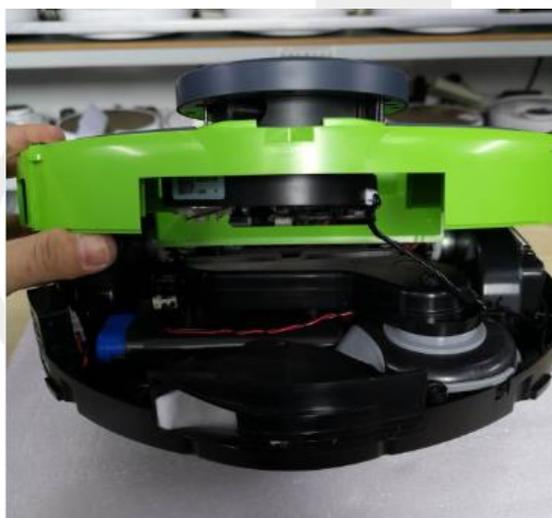
Take out upper cover assembly and whole bumper



## Maintenance of L series

### III. Disassemble:

Disassemble upper cover assembly and middle cover assembly

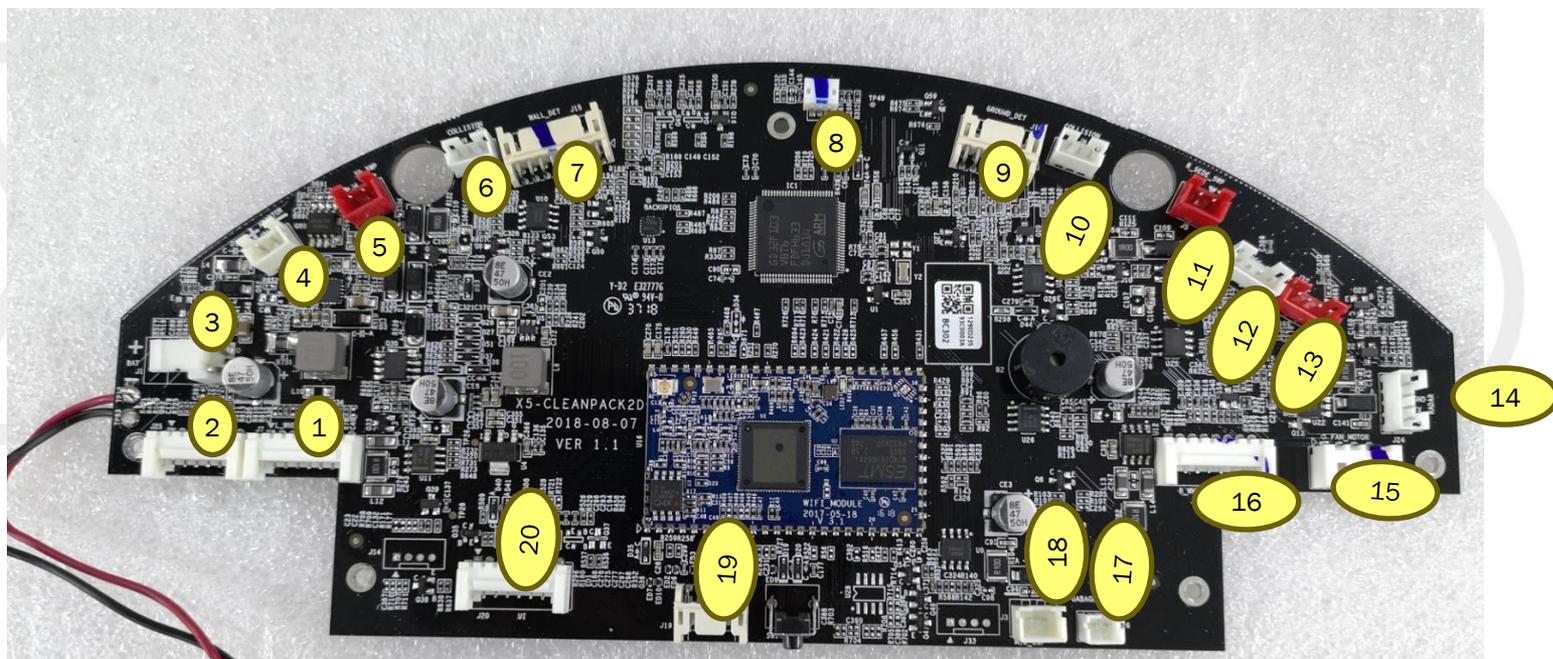


Unscrew bottom 8pcs screw , then can take our top cover;  
Dial the radar connector and the keypad connector, and the cover can be opened,  
as shown on above pic 2

## Maintenance of L series

### III: Disassemble:

#### 3.4 Take out the main board



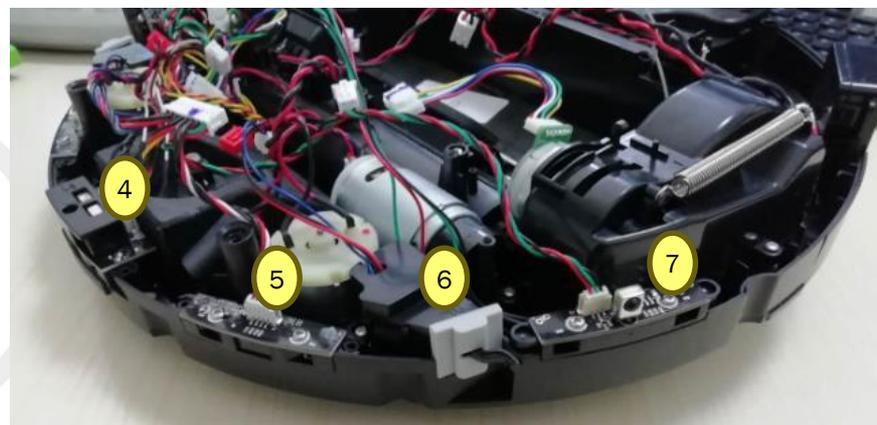
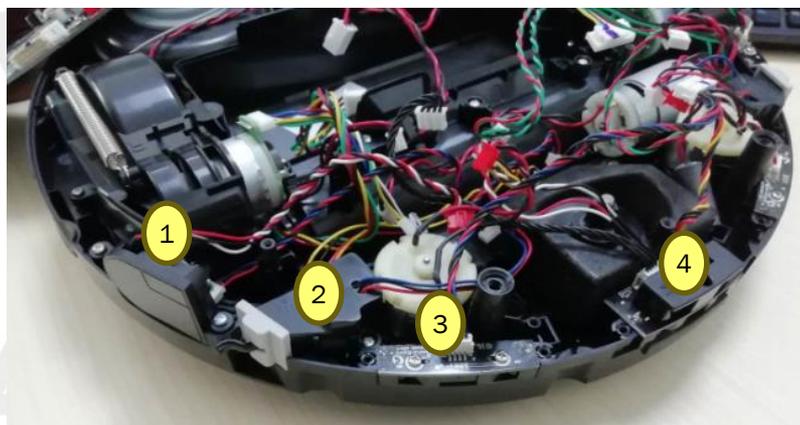
Unscrew 8pcs screws on PCB , then can disassemble the PCB;

There are 20 socket interfaces around the PCB , In numerical order is ①left wheel、②voice mouldle、3. battery、4. Charging electrode line、5. left side brush、6 .left collision、7. wall detect port、8 Wall sensor 、9. ground detect sensor port、10. Right collision 、11 .right side brush、12 .middle infrared receiver、13 .Right Infrared Receiver 、14 .Radar receive port、15 .fan port、16. right wheel、17. Dust box induction switch 18. middle brush、19. PC com port、20. Keystroke board port.

## Maintenance of L series

### III. Disassemble:

3.5 Disassembly main PCB, description of the distribution of various sensors



Disassembly main PCB, The number of sensors distributed in turn, as shown in below:

① Wall sensor and right infrared receiver ② Right impact sensor ; ③ Right wall sensor ; ④ Front wall sensor and left-middle、right-middle Infrared receiving sensor , right-middle、left-middle infrared receiving sensor is a sensor for matching the machine with the charging base. ⑤ Left middle wall sensor ; ⑥ Left impact sensor ; ⑦ Left wall detector and left infrared receiver

## Maintenance of L series

### III. Disassemble:

3.5 Remove the right-side wall sensor and the right infrared receiver head

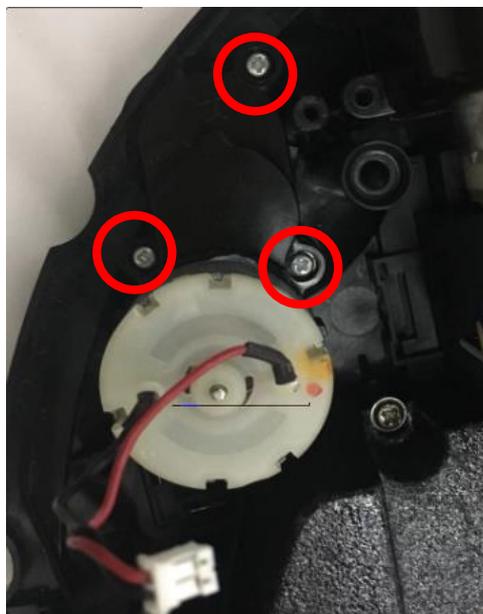
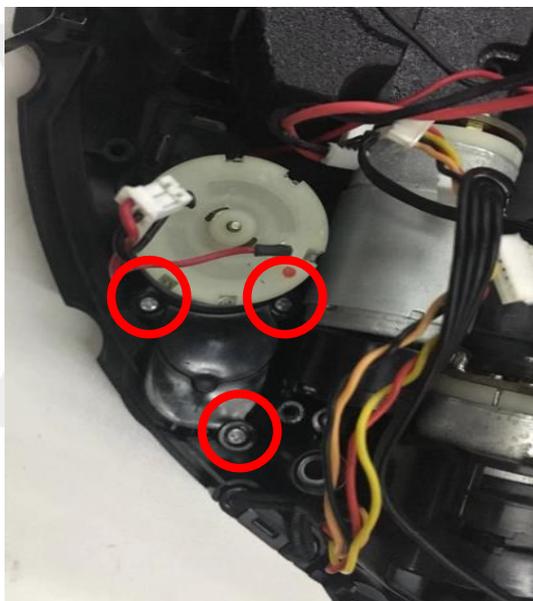


By loosening the screws on the right wall sensor, the wall sensor can be replaced; as shown in the right pic 2 , it includes the right infrared receiver and the wall sensor module, which are generally replaced . Normally need replace full set

## Maintenance of L series

### III. Disassemble:

#### 3.6 Take out the side brush and ground detection assembly

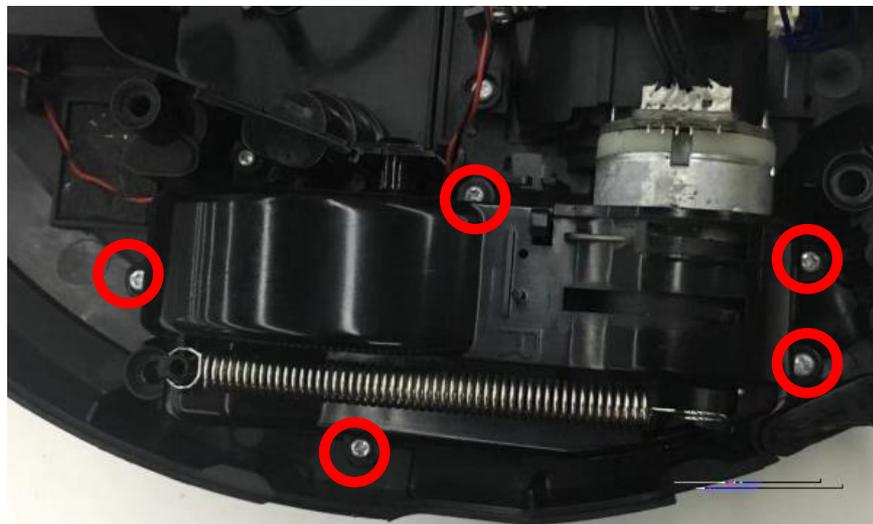
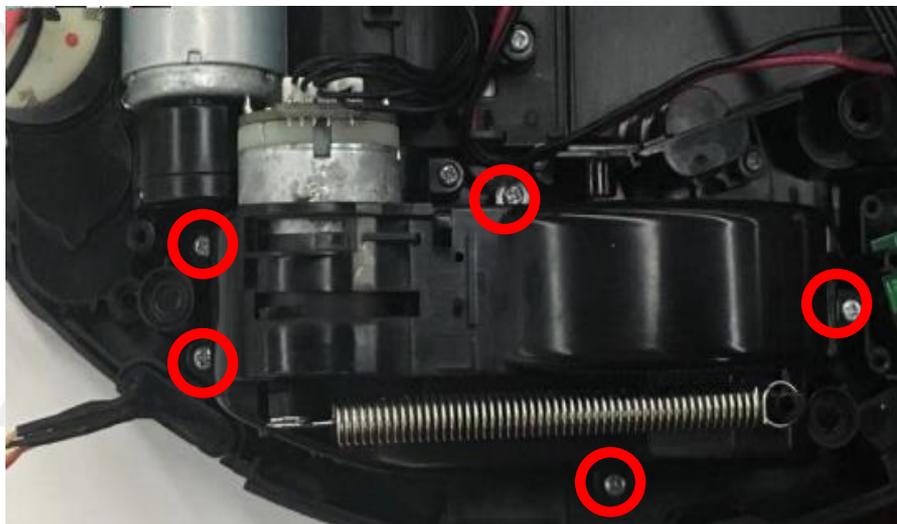


Take out the 6pcs screws as indicated by red ring .The right, middle and left ground sensors need to be removed from the right wall sensor, the middle wall sensor, the left wall sensor, and the three sets of sensors will be exposed,as showing on right pic .

## Maintenance of L series

### III. Disassemble:

3.7 Take out the left and right wheels



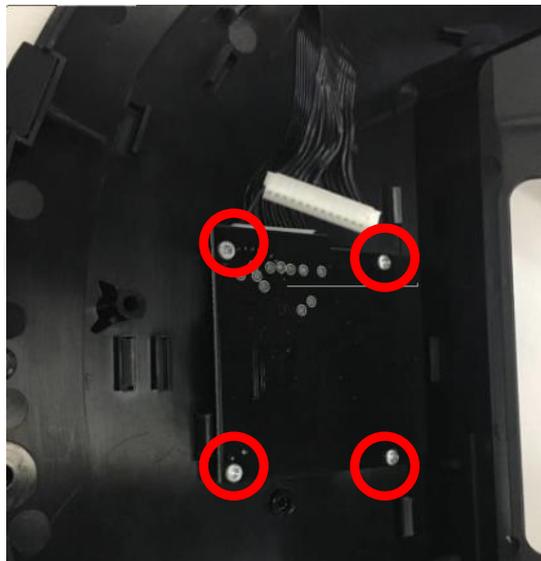
## Maintenance of L series

### III. Disassemble:

3.8 Disassemble the fan assembly and cover keypad



1. Take out fan motor assembly



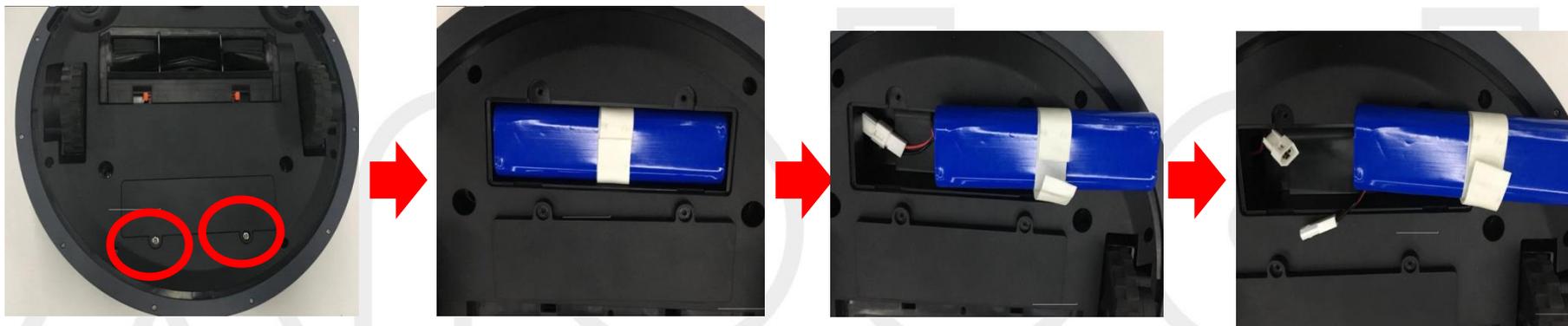
2. Take out the 4pcs screws then take down the keypad PCBA



## Maintenance of L series

### III. Disassemble:

#### 3.9 Change battery

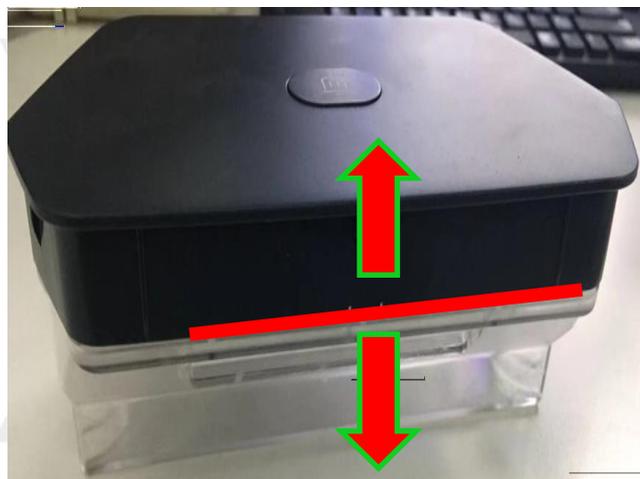


Disconnect the 2PCS sockets of batter cover

## Maintenance of L series

### III. Disassemble:

#### 3.9.1 Disassemble dustbin (change filter,filter sleeve,sponge)



1. Open dustbin



2. Take out filter sleeve as picture showing on above



3. Take out sleeve, sponge and HEPA filter

## Maintenance of L series

### IV. Disassemble dock station :



1. Take out the 2pcs pad



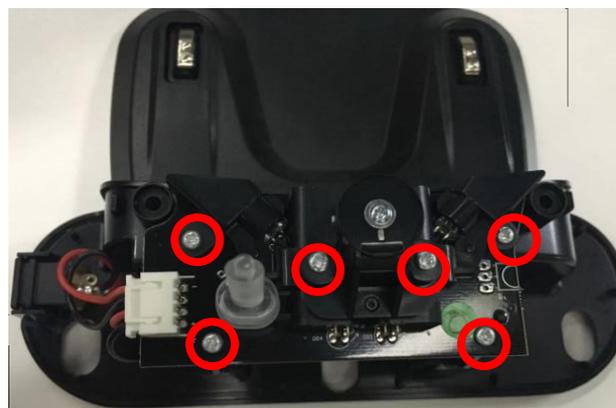
2. Take out the 3pcs screws in back cover



3. Dismounting the bottom cover and back cover



4. Dismounting the bottom cover



5. Take out the 6pcs screws