



**GAUSIUM**

**Commercial Cleaning Robot**

**Vacuum 40**

**Disassembly Manual**



**2023-07-07\_1.0**

**This document is only for on-site troubleshooting**

**The after-sales Operation Center have the right to modify and interpret this document**

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# Directory

1. Head cover Components disassembly.....	4
1.1 Inner shell of head cover disassembly .....	4
1.1.1 The G module disassembly .....	5
1.1.2 Key switch disassembly .....	6
1.1.3 All-in-one disassembly .....	7
1.1.4 TOF camera.....	8
1.1.5 Remove the scram switch.....	9
2. Internal assembly disassembly .....	10
2.1 Remove the small front door.....	10
2.1.1 Front oblique camera disassembly.....	11
2.1.2 Lora module disassembly.....	12
2.1.3 Relay disassembly.....	13
2.1.4 Loudspeaker disassembly.....	14
2.2 Remove the front anti-collision shell.....	15
2.2.1 GCBU Plate disassembly.....	16
2.2.2 Side brush motor disassembly.....	17
2.3 Flat laser disassembly.....	18
2.4 The left shell disassembly.....	19
2.4.1 The DC power module disassembly .....	20
2.4.2 The battery disassembly .....	21
2.4.3 Rolling brush motor disassembly .....	22
2.5 Right side shell disassembly.....	23
2.5.1 The Front Camera disassembly.....	24
2.5.2 The suction motor disassembly.....	25
2.5.3 Hybrid driver disassembly .....	26
2.9.1 Hub driver disassembly .....	27
2.6 The lower computer disassembly .....	28
2.7 The upper computer disassembly.....	29
2.8 Disinfection and sterilization backpack disassembly .....	30
2.9 Rear shell disassembly .....	31
2.9.1 Rear medium color camera disassembly .....	32
2.9.2 Laser radar disassembly .....	33
2.9.3 Dust pusher rod motor disassembly .....	34
2.10 Wheel hub motor disassembly .....	35

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# 1. Head cover Components disassembly

## 1.1 Inner shell of head cover disassembly



① Remove the screw marked in the red circle.



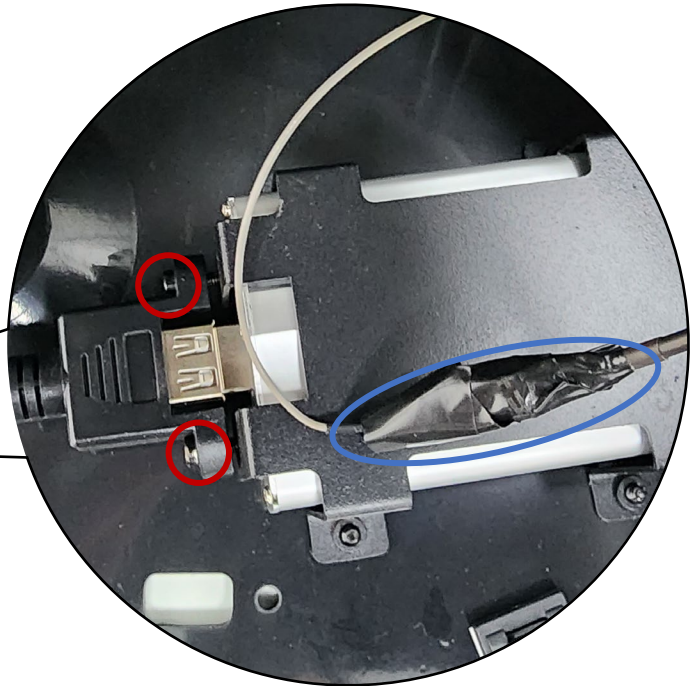
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### 1.1.1 The G module disassembly



① Disassemble the screw marked in the red circle.



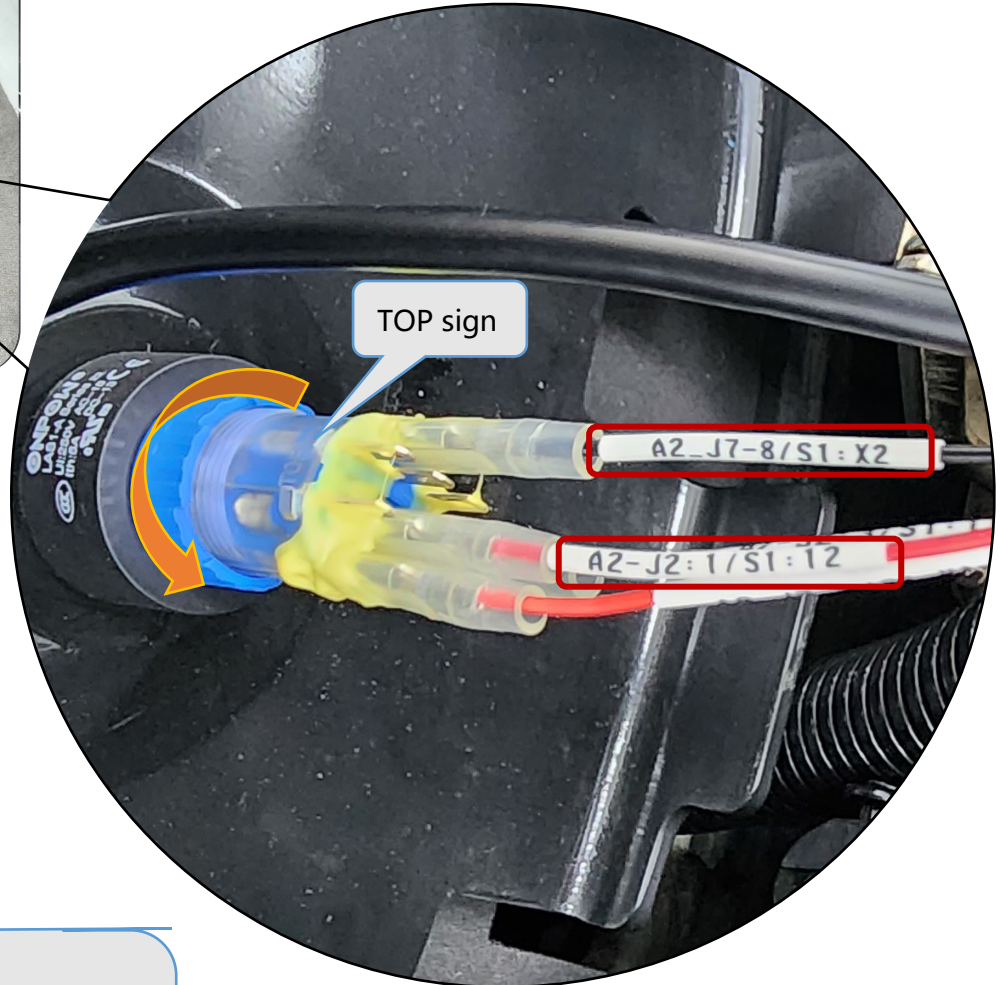
① Remove the screw marked in the red circle and remove the data cable.

② Remove the tape at the mark of the basket and take off the antenna.

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## 1.1.2 Key switch disassembly

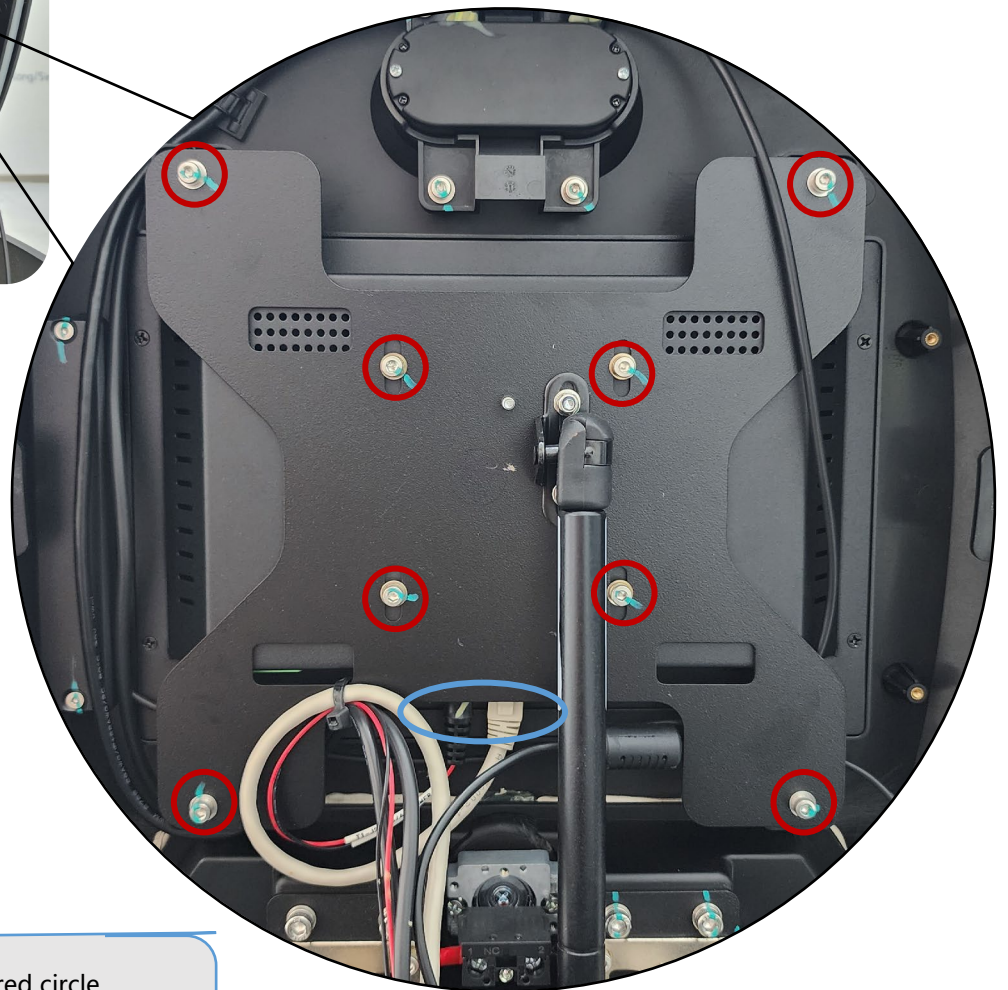
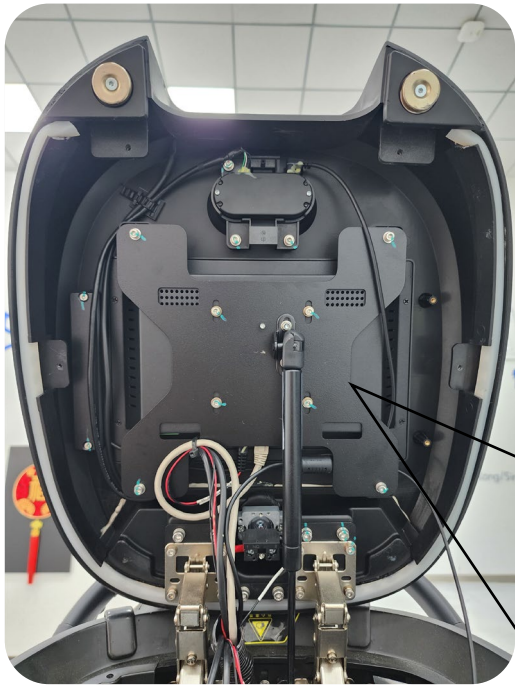


- ① Use alcohol to soften e-yellow glue.
  - ② Remove the terminal.
  - ③ Screw loose [key switch] comes with fastening nut
- Note: Pay attention to the connector position relative to TOP.

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### 1.1.3 All-in-one disassembly

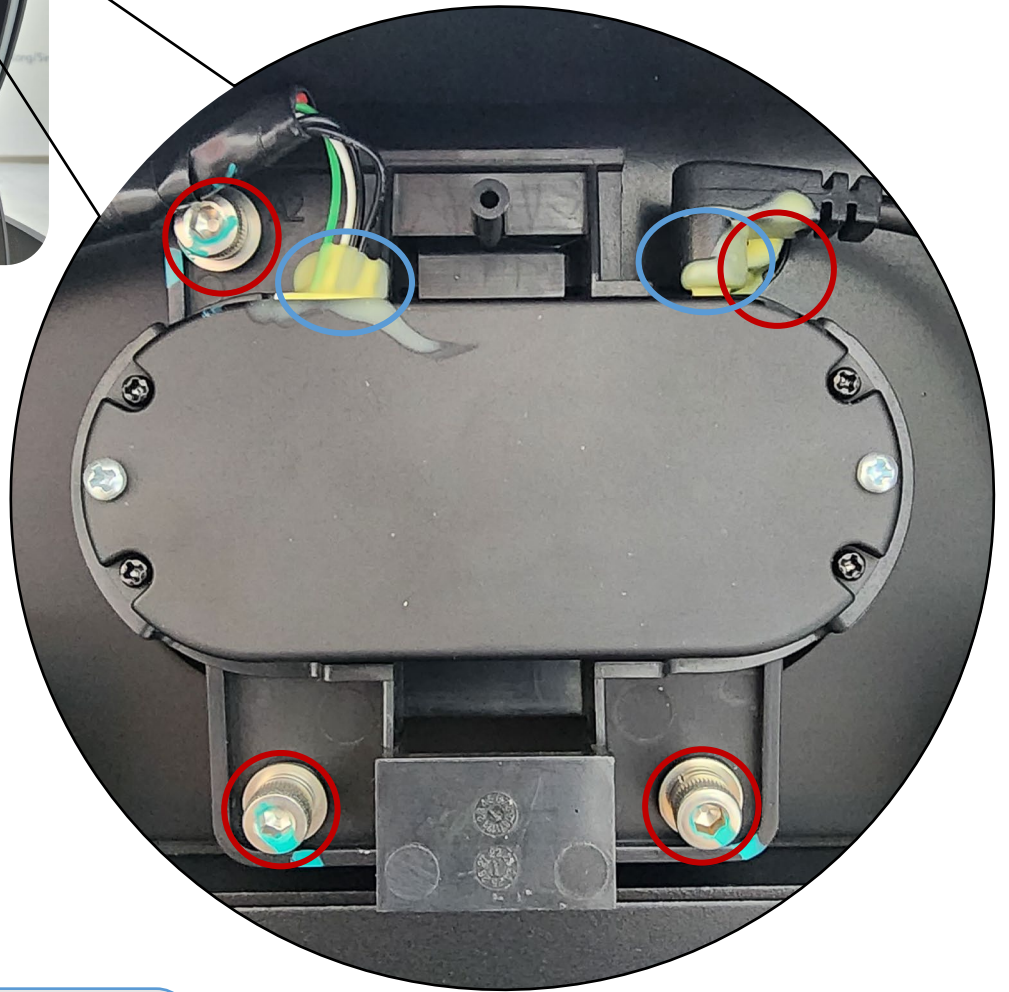
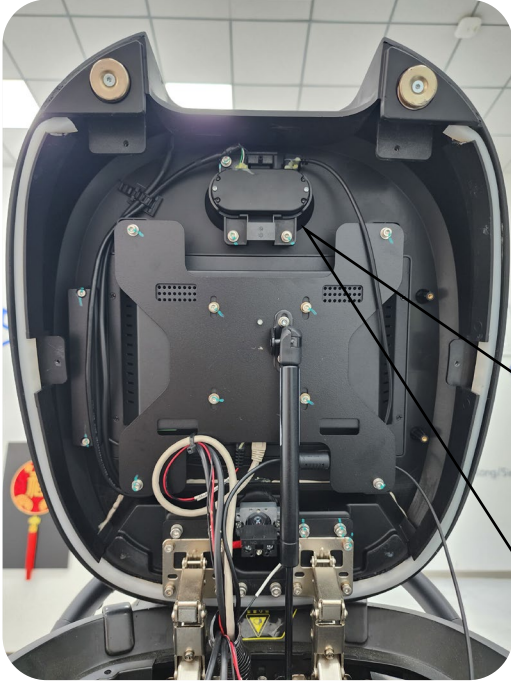


- ① Remove the screw marked in the red circle.
- ② Unplug the power cord and data cable at the mark of the basket circle.

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## 1.1.4 TOF camera

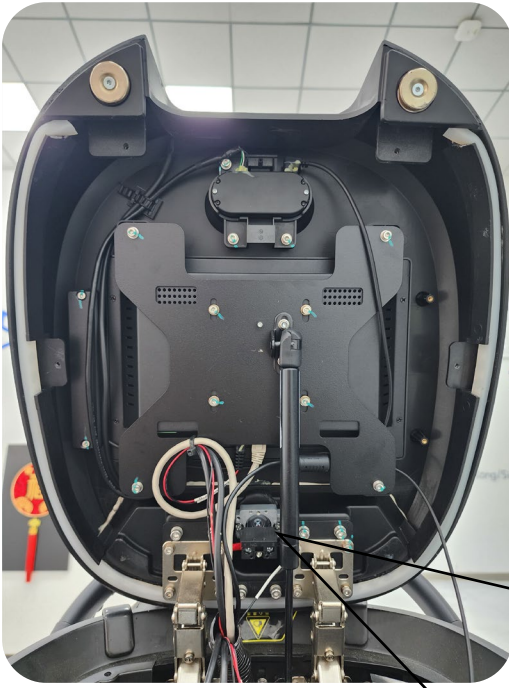


- ① Remove the screw marked in the red circle.
- ② Unplug the power cord and data cable at the mark of the basket circle.

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### 1.1.5 Remove the scram switch



- ① Remove the screw marked in the red circle.
- ② Loosen the screws at the mark of the basket and remove the [emergency stop switch] wiring harness.

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## 2. Internal assembly disassembly

### 2.1 Remove the small front door



① Remove the screws marked in red circle (at the bottom).

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## 2.1.1 Front oblique camera disassembly

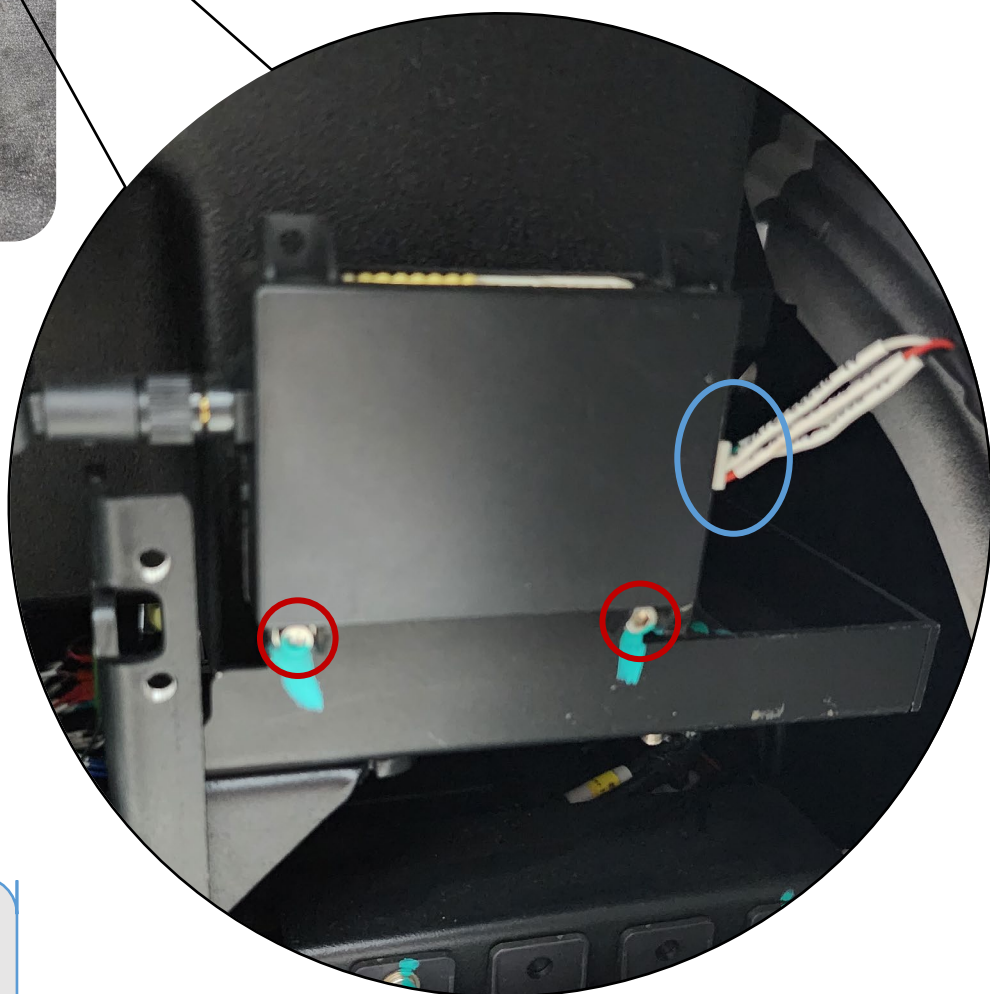
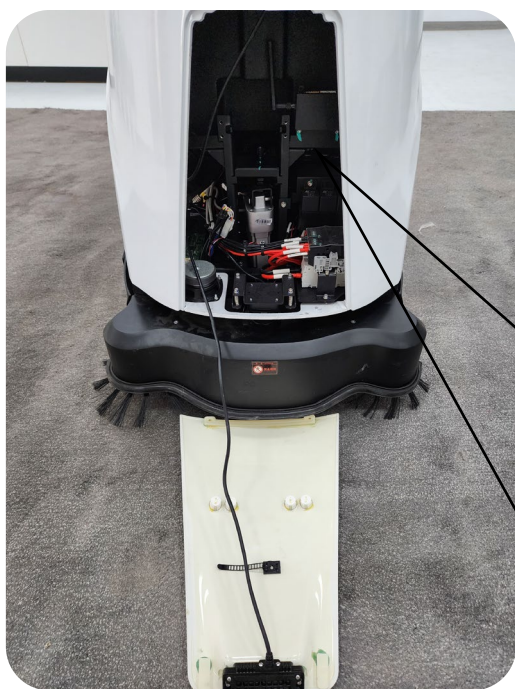


- ① Remove the screw marked in the red circle.
- ② Unplug the data cable at the mark of the basket.

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## 2.1.2 Lora module disassembly

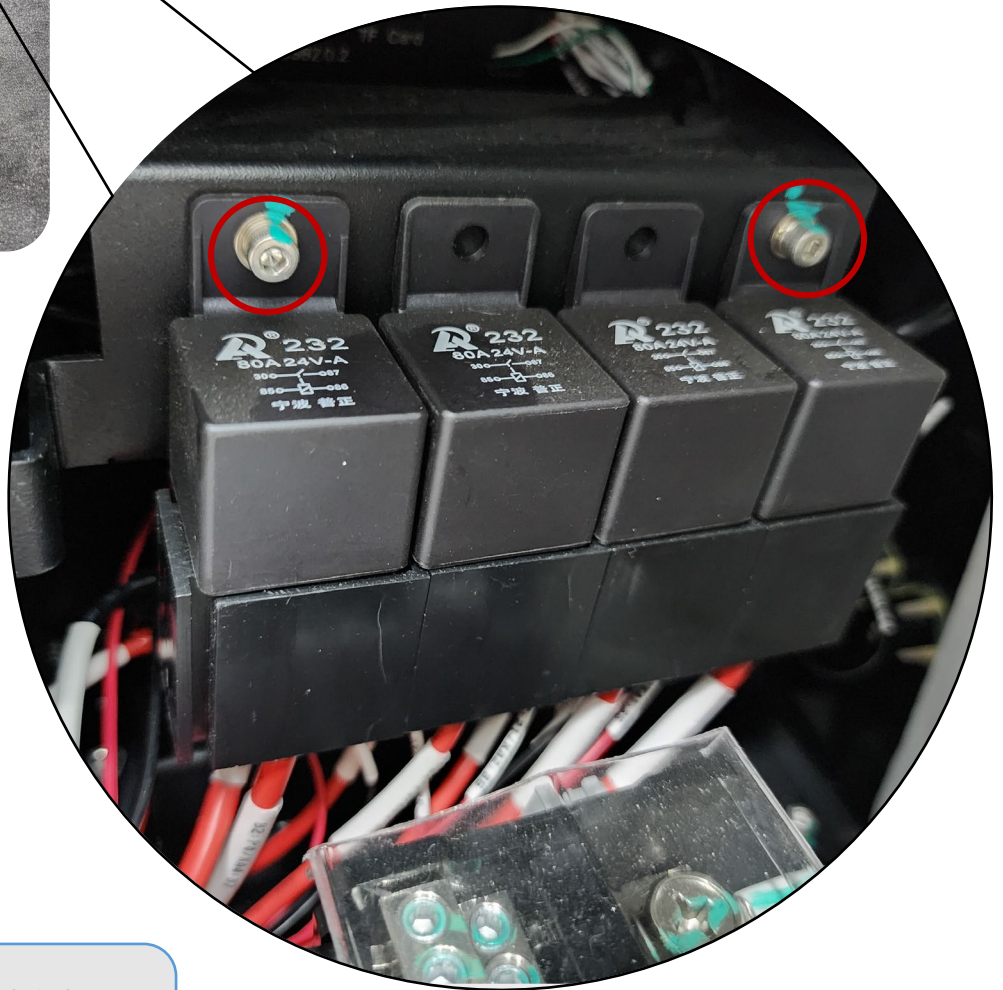


- ① Remove the screw marked in the red circle.
- ② Unplug the data cable at the mark of the basket.

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### 2.1.3 Relay disassembly

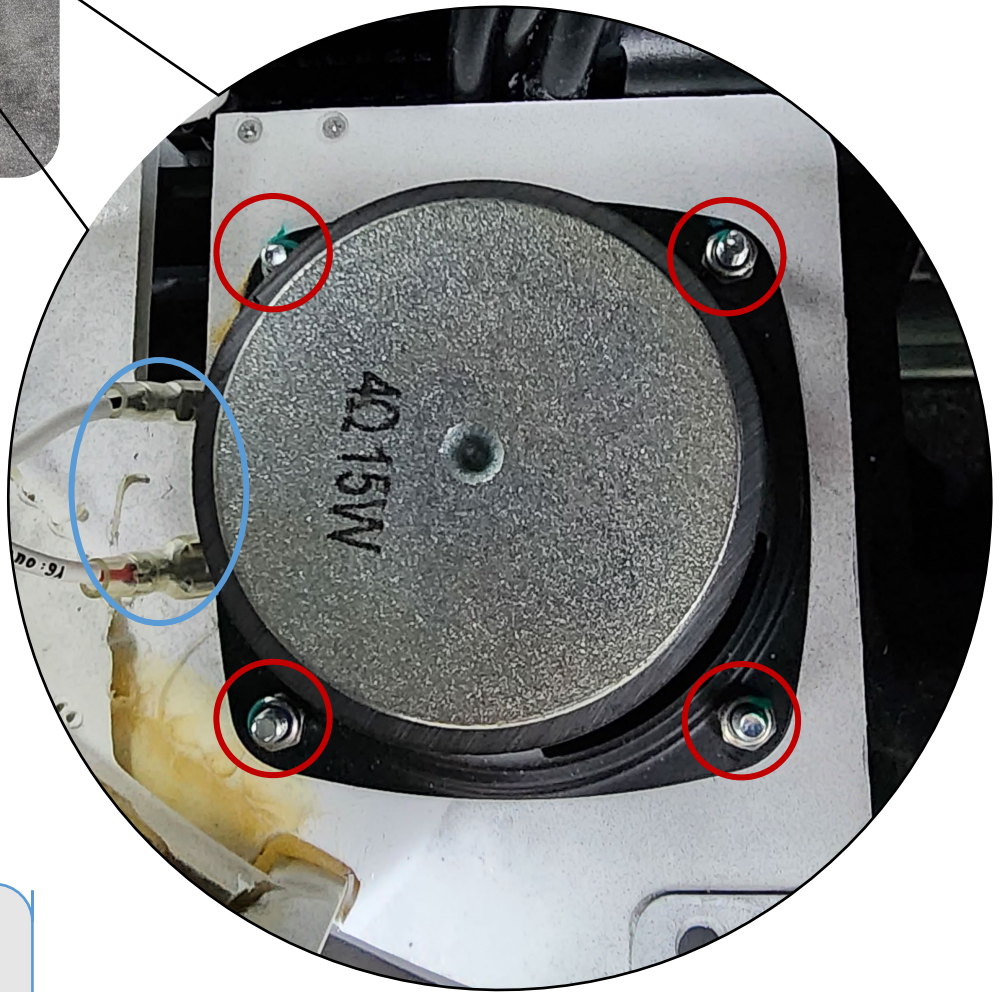
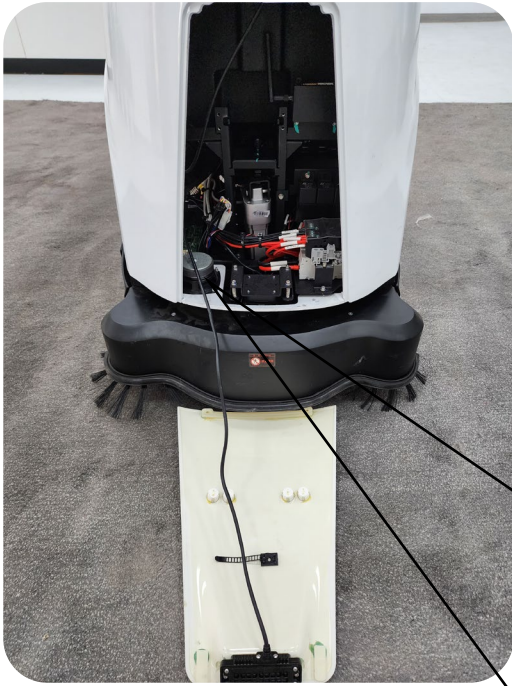


- ① Remove the screw marked in the red circle
- ② Any relay can be disassembled separately after removing the relay assembly

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## 2.1.4 Loudspeaker disassembly



- ① Remove the screw marked in the red circle.
- ② Unplug the audio cable at the mark of the basket.

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## 2.2 Remove the front anti-collision shell.

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① Remove the screw marked in the red circle.

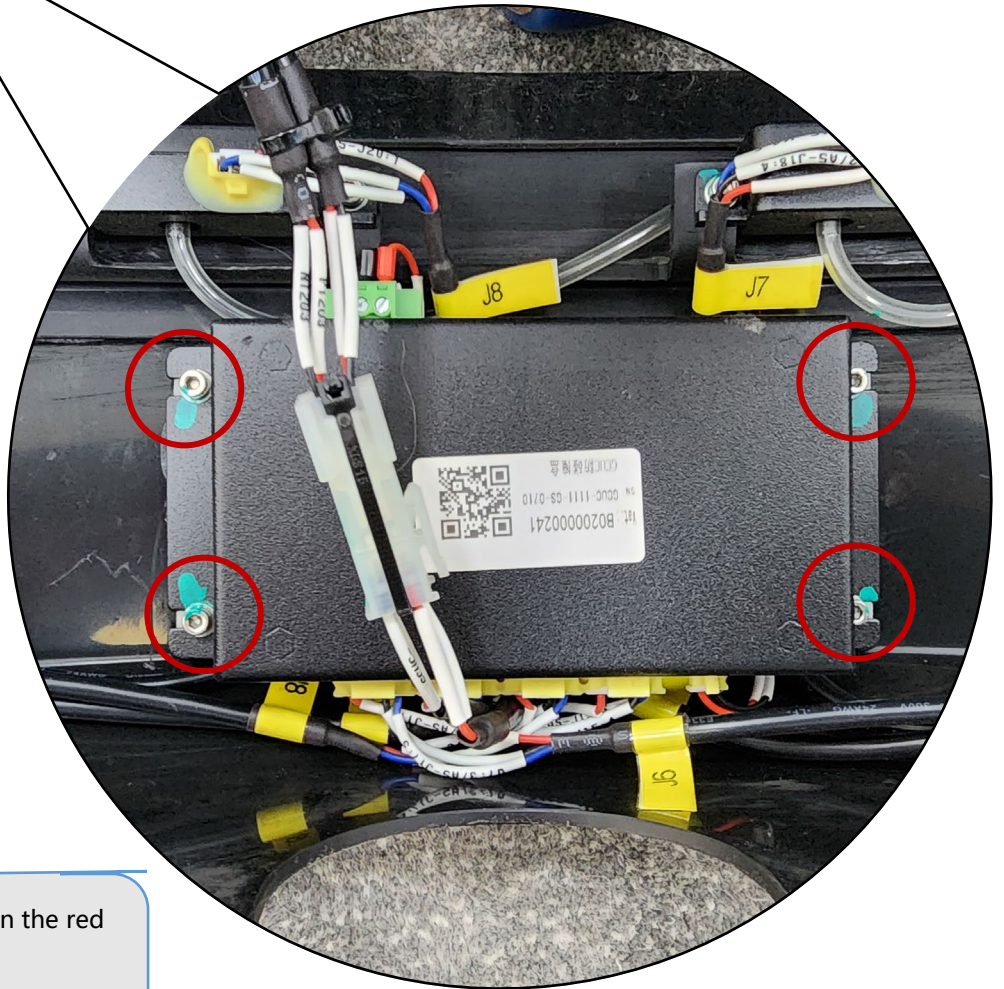


② Pull out the front anti-collision housing assembly.

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## 2.2.1 GCBU Plate disassembly

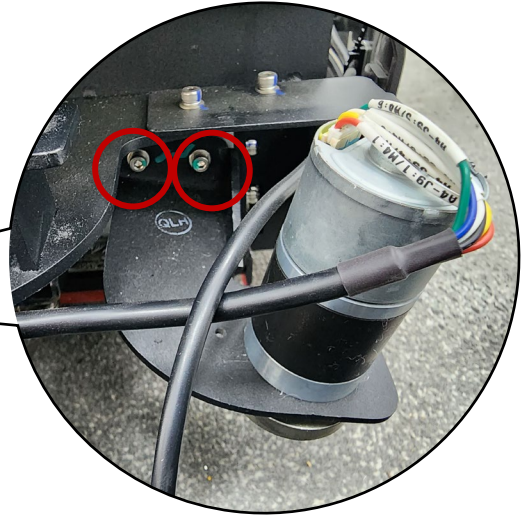


- ① Remove the screw marked in the red circle.
- ② Unplug the [GCBU board] peripheral wiring harness.

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## 2.2.2 Side brush motor disassembly



① Remove the screws marked by the red circle in the picture.



② Remove the screws marked by the red circle in the picture

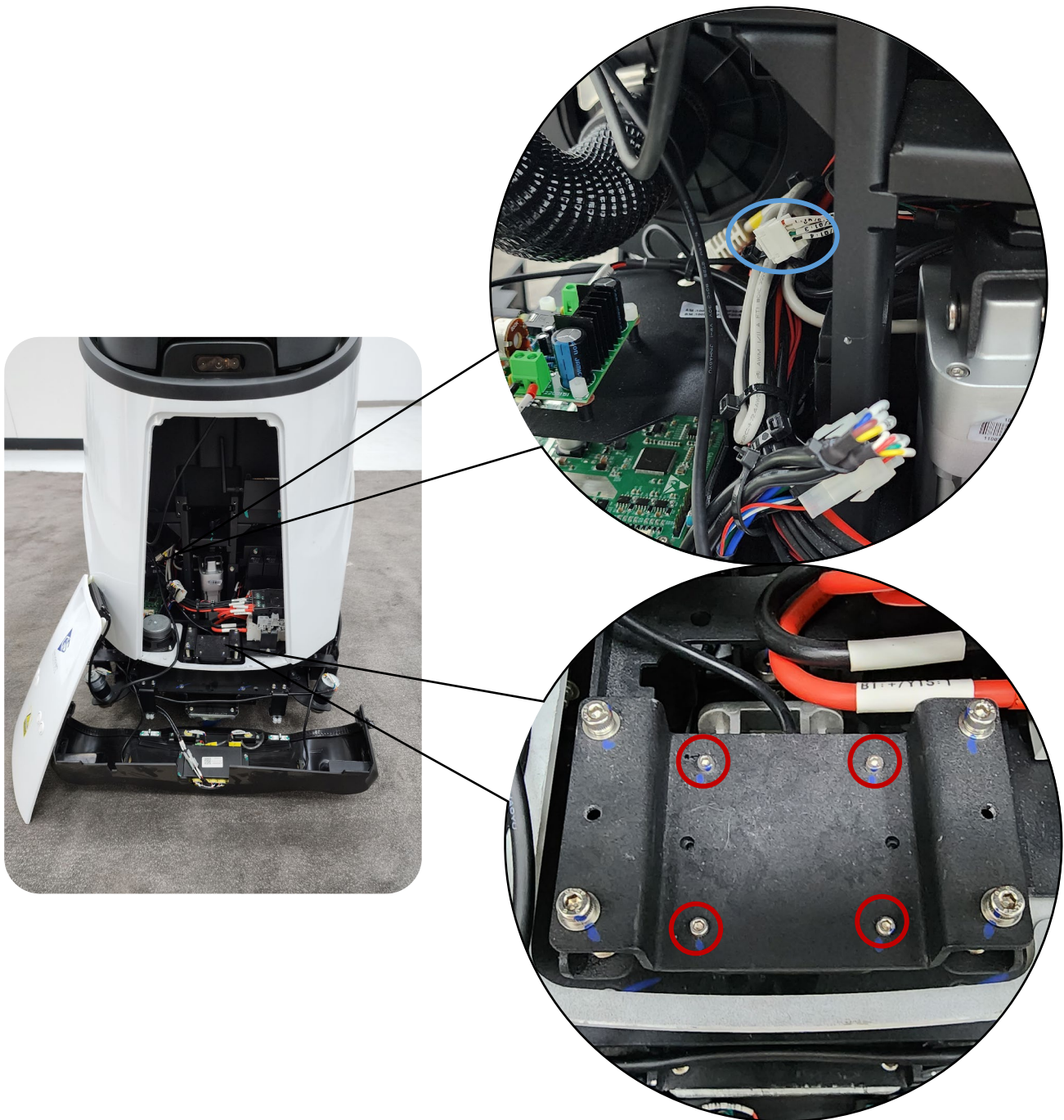


② Remove the screws marked by the red circle in the picture

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## 2.3 Flat laser disassembly

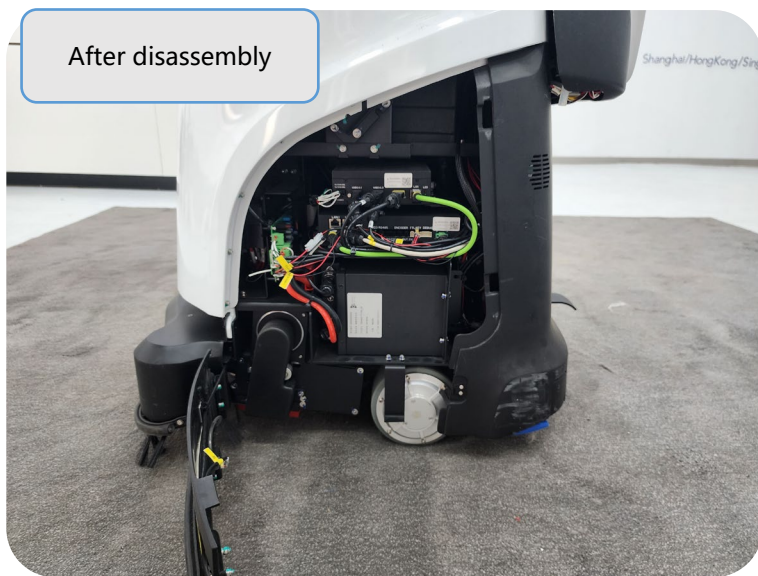
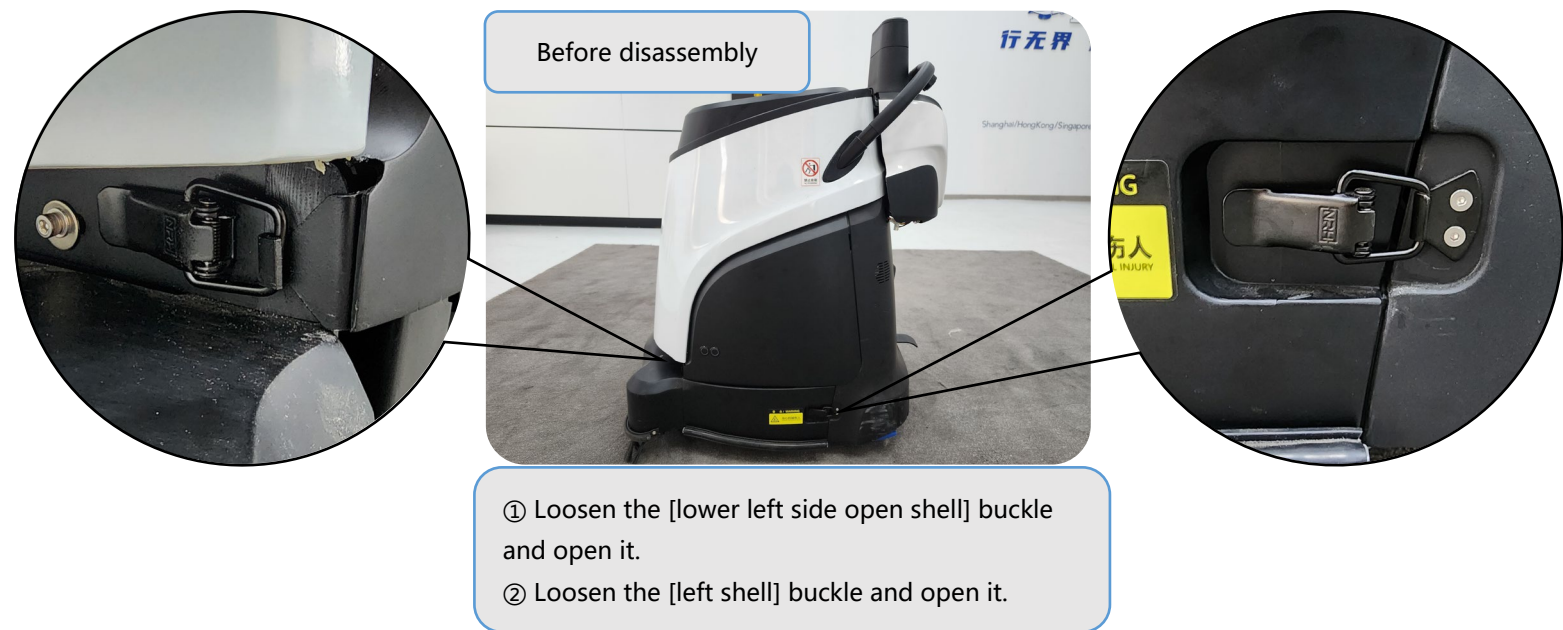


- ① Remove the screw marked in the red circle.
- ② Unplug the data cable at the mark of the basket.

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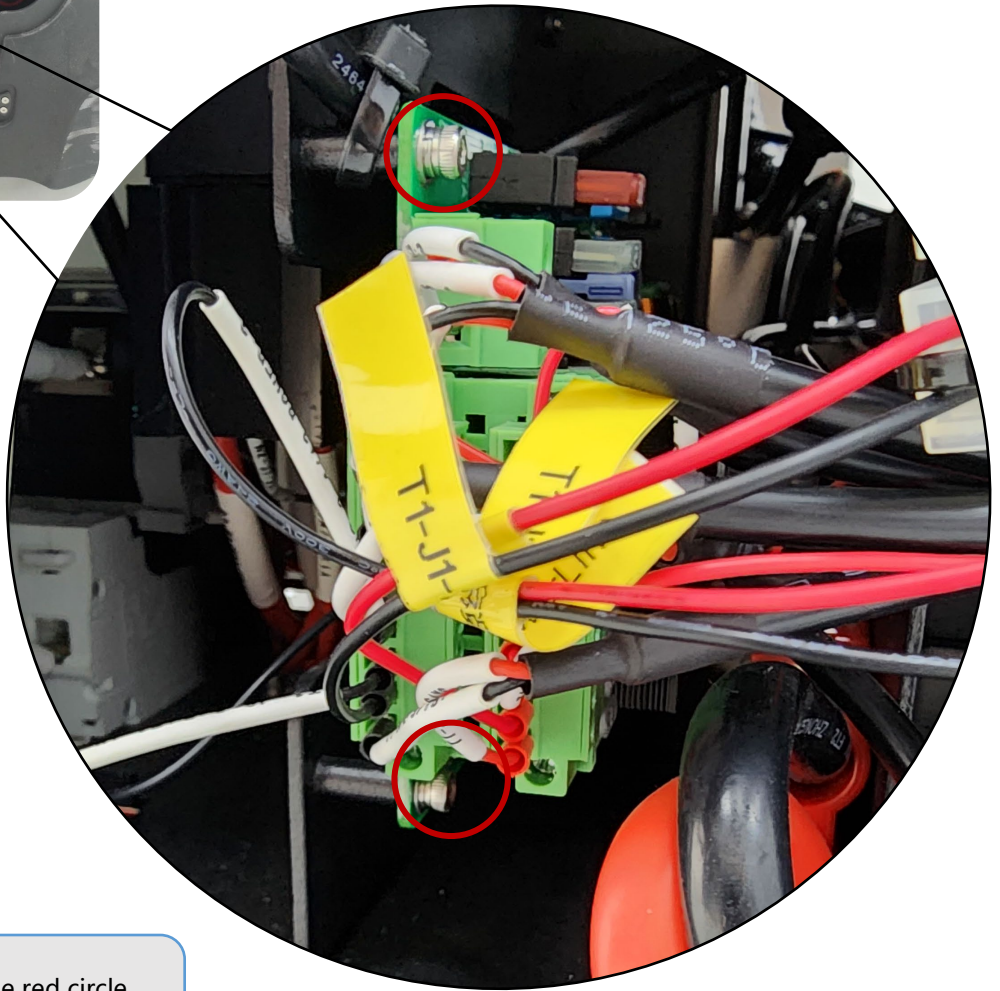
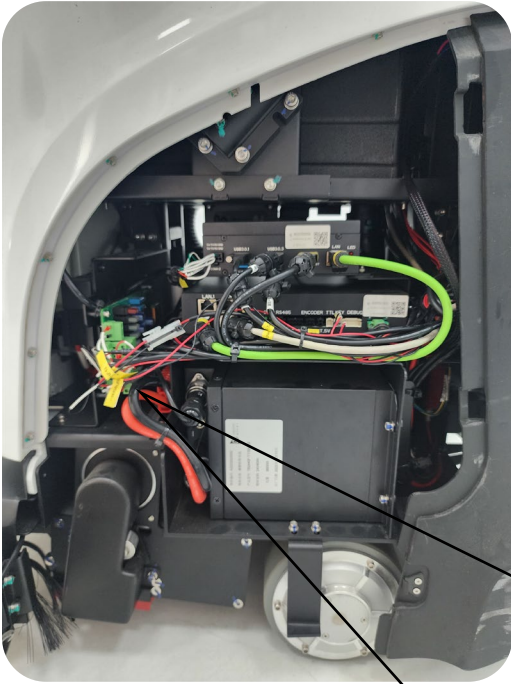
## 2.4 The left shell disassembly



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## 2.4.1 The DC power module disassembly

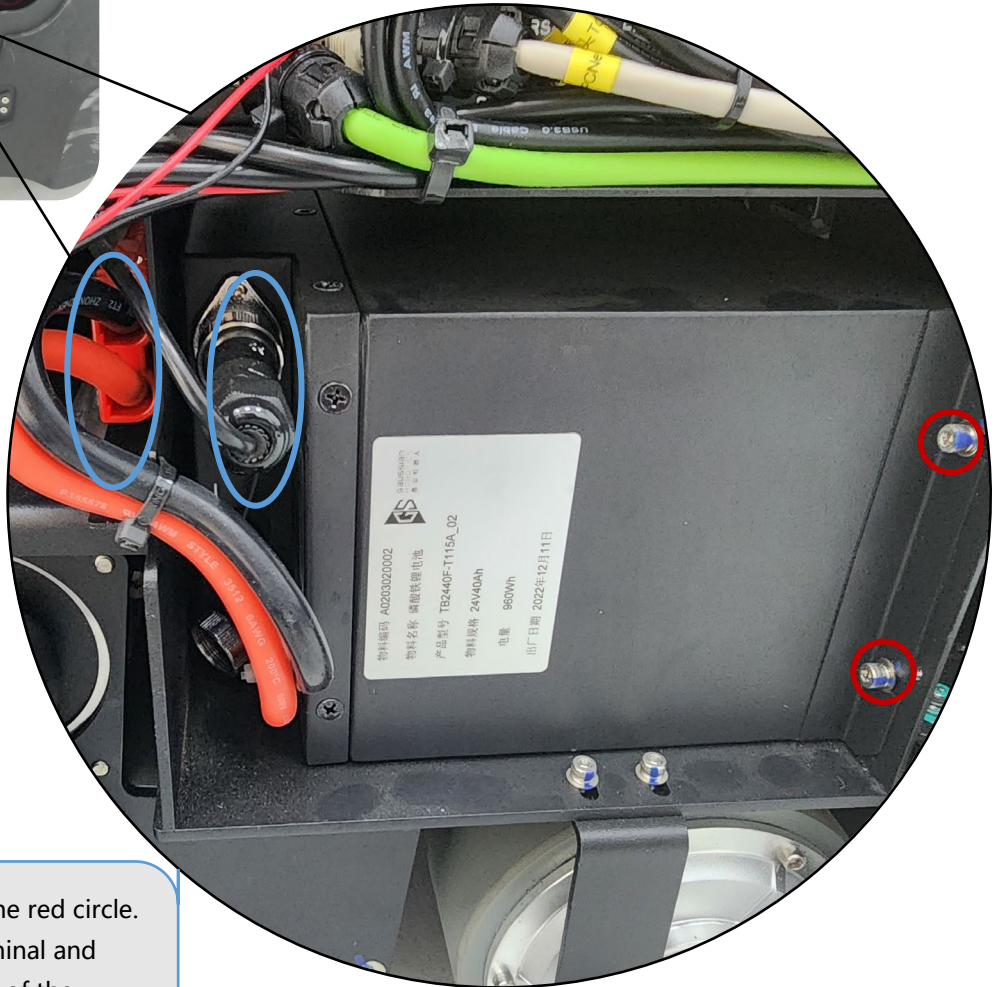
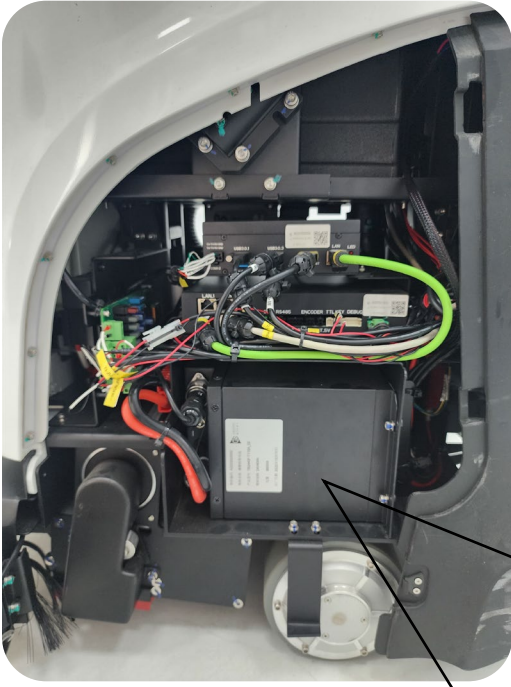


- ① Remove the screw marked in the red circle.
- ② Pull out the power module.

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## 2.4.2 The battery disassembly

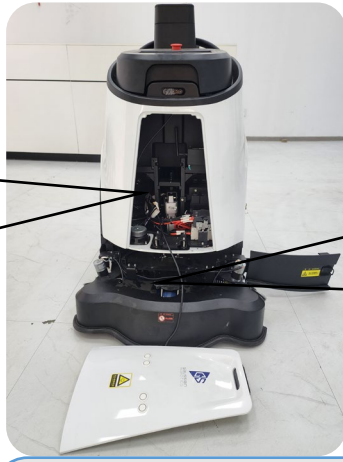
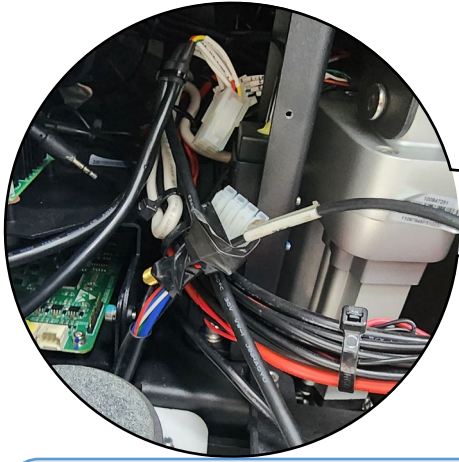


- ① Remove the screw marked in the red circle.
- ② Remove the power supply terminal and communication cable at the mark of the basket.
- ③ Pull out the battery.

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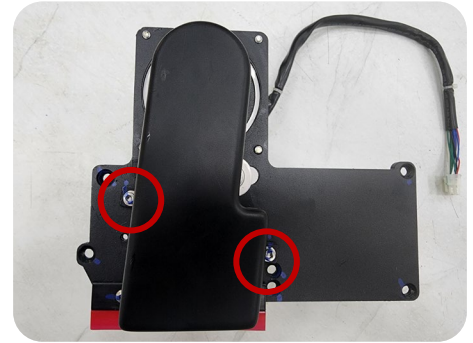
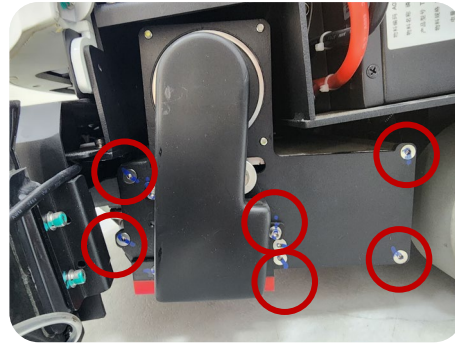
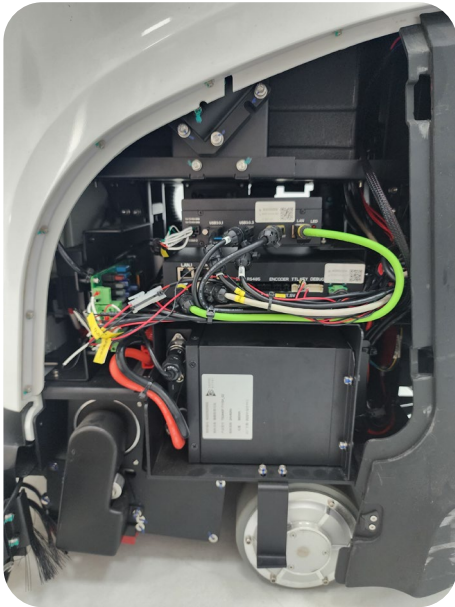
### 2.4.3 Rolling brush motor disassembly



- ③ Unplug the terminal at the mark of the basket.
- ④ Connect a rope to the rolling motor line as a lead.

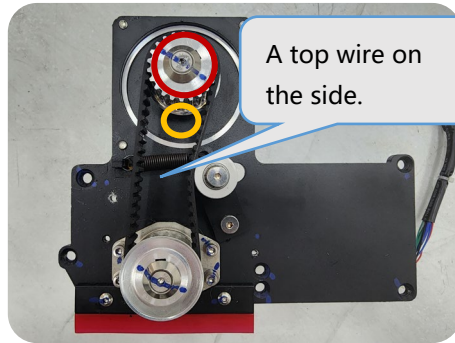
- ① Impact plate assembly before disassembly .
- ② Remove the small front door assembly.

- ⑤ Remove the rolling brush motor cable tie shown.

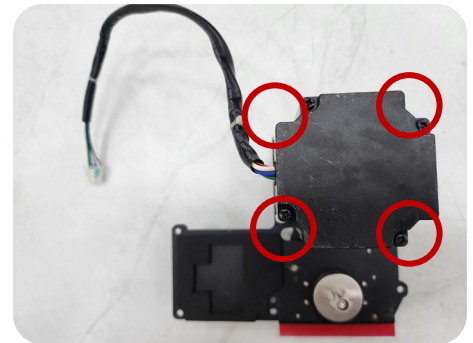


- ⑥ Remove the screws marked in the red circle.

- ⑦ Remove the screws marked by the red circle in the picture.



A top wire on the side.



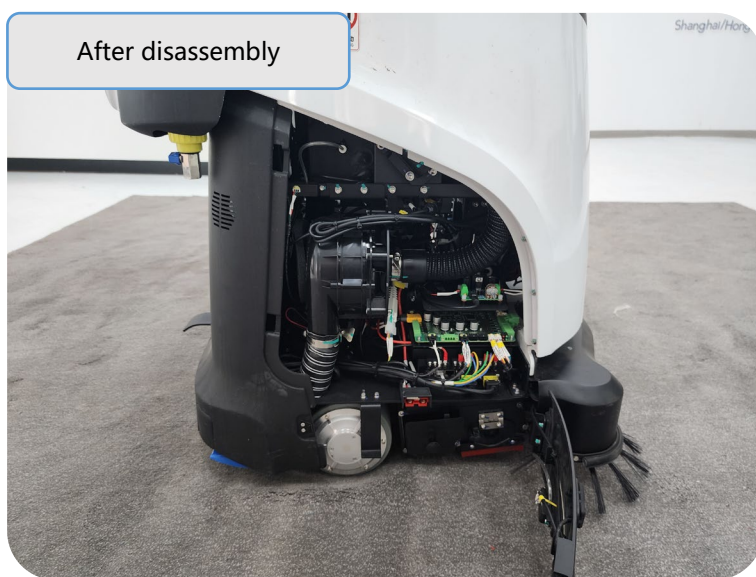
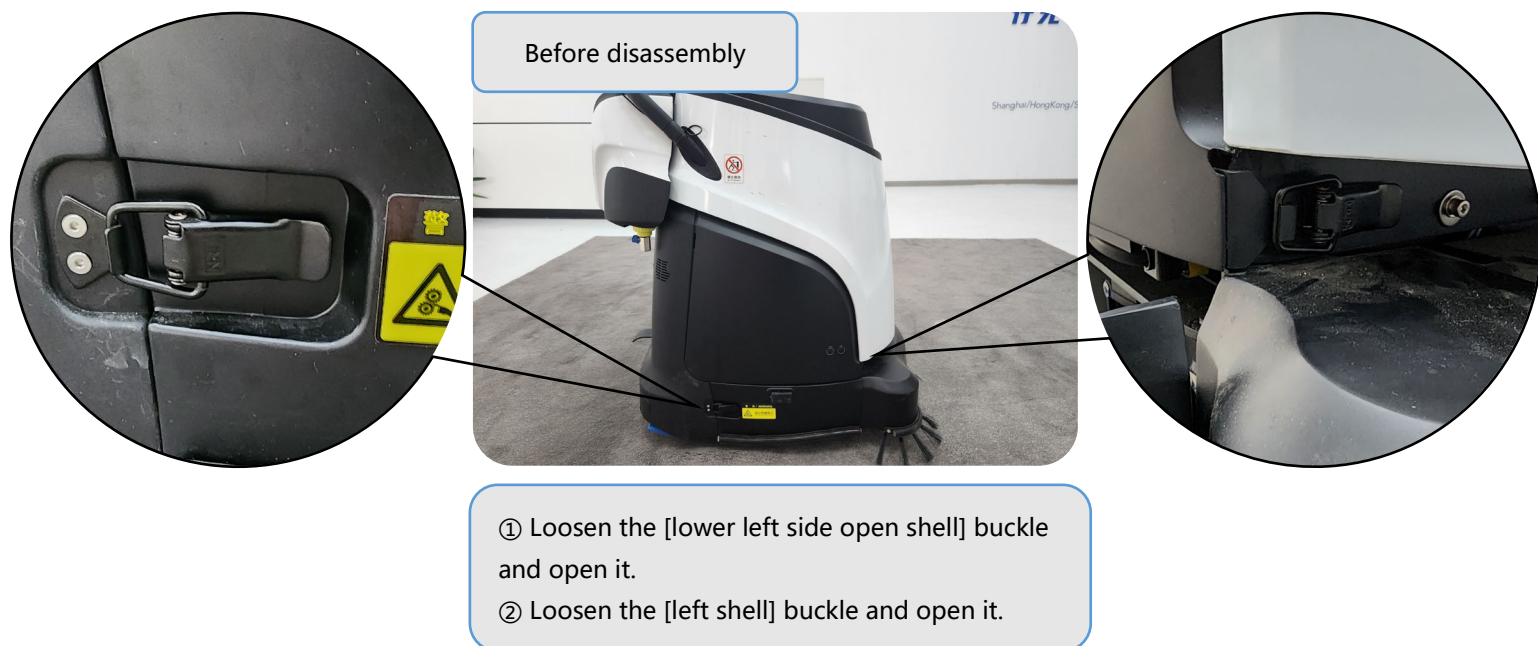
- ⑧ Remove the screws marked in red circle.
- ⑨ Remove the top wire at the yellow circle mark.

- ⑩ Remove the screws marked by the red circle.

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## 2.5 Right side shell disassembly



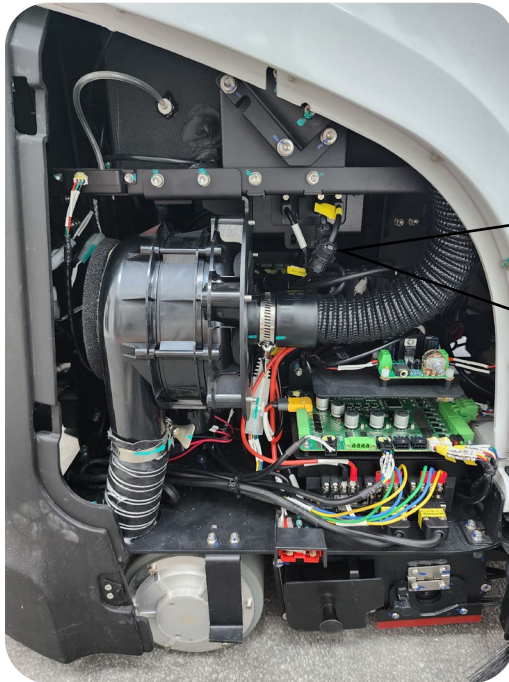
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## 2.5.1 The Front Camera disassembly



① Remove the screws marked by the red circle in the picture.

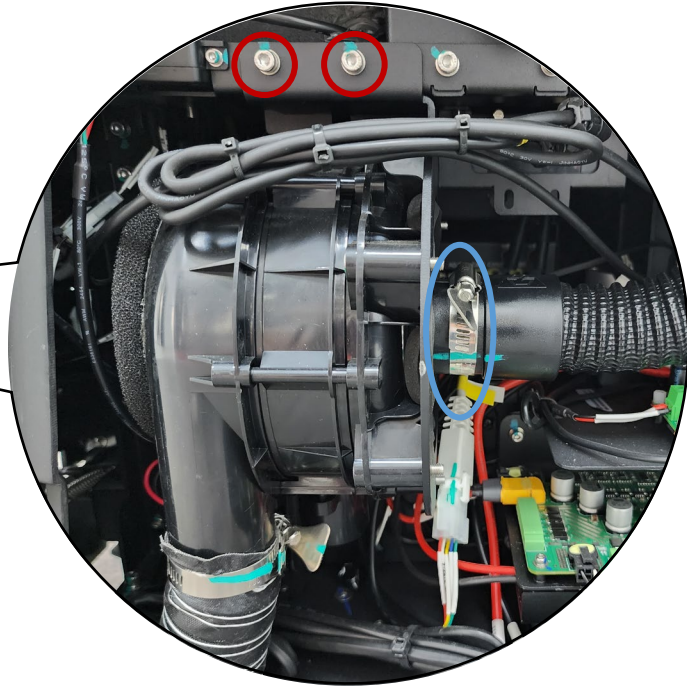
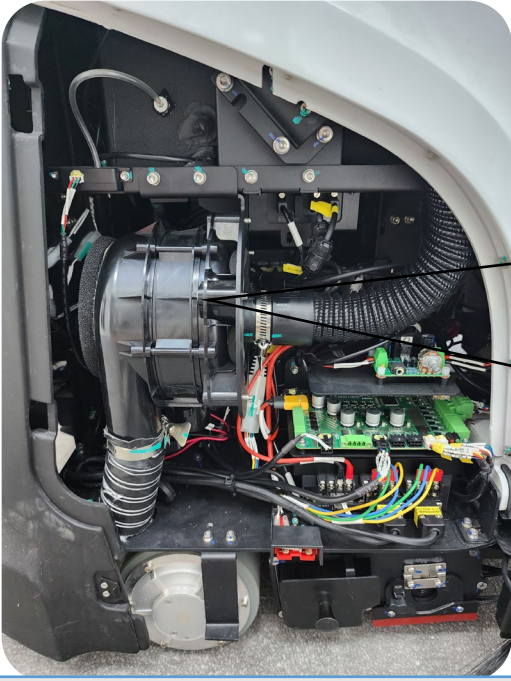


② Unplug the data cable of the front camera at the mark of the basket.

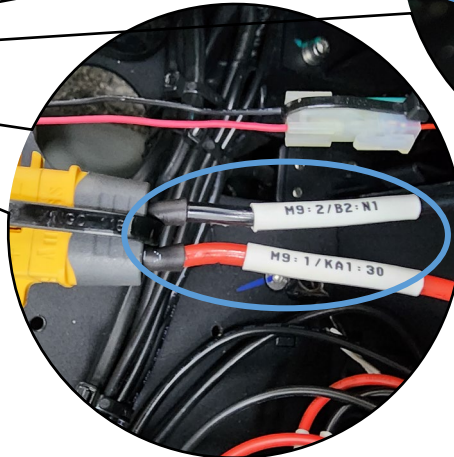
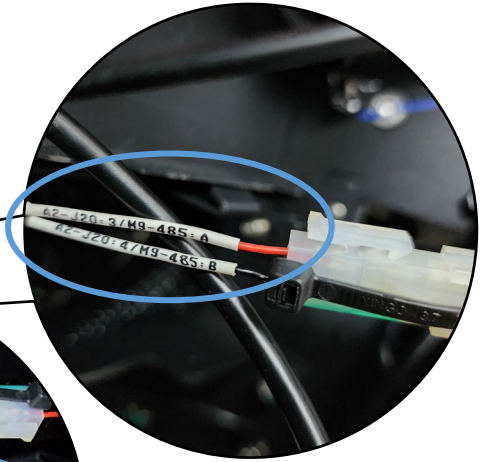
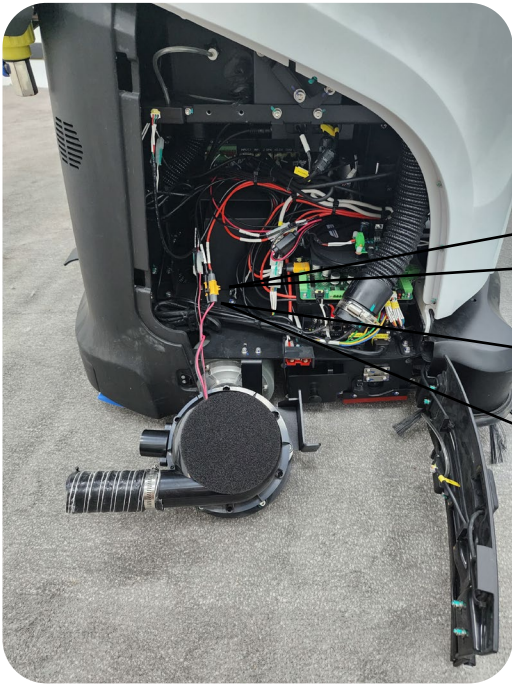
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## 2.5.2 The suction motor disassembly



- ① Remove the screws marked by the red circle in the picture.
- ② Remove the clamp at the mark of the basket.

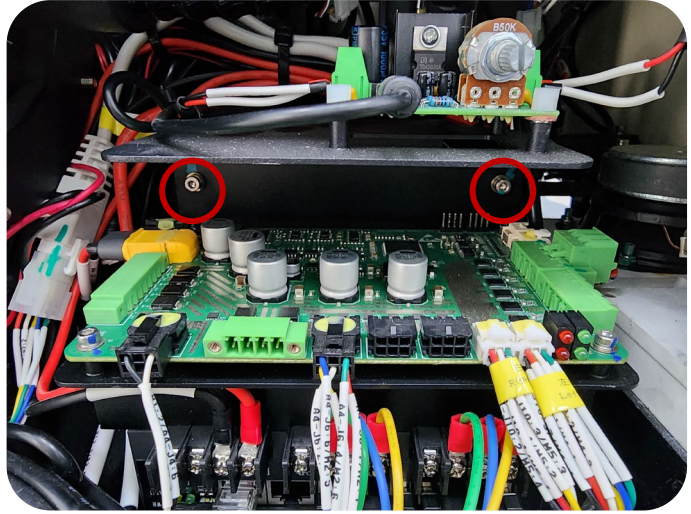
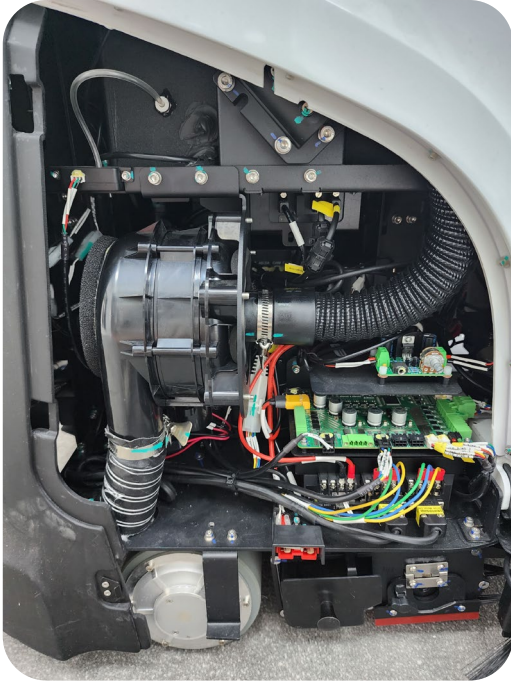


- ① Unplug the mark of the basket.

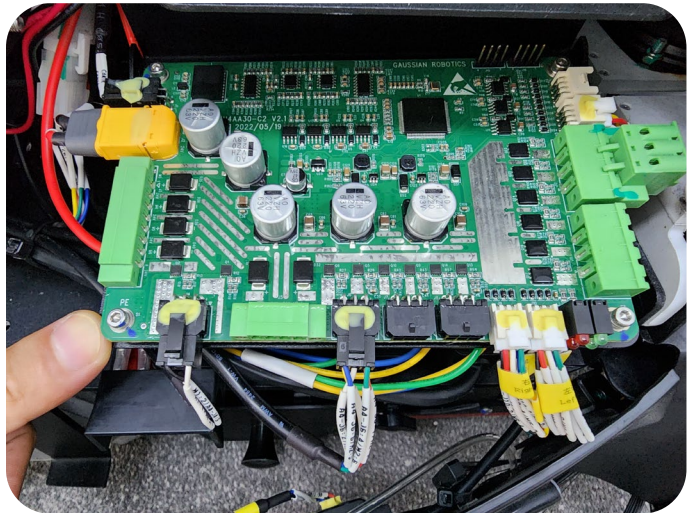
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### 2.5.3 Hybrid driver disassembly



① Remove the screws marked by the red circle in the picture.

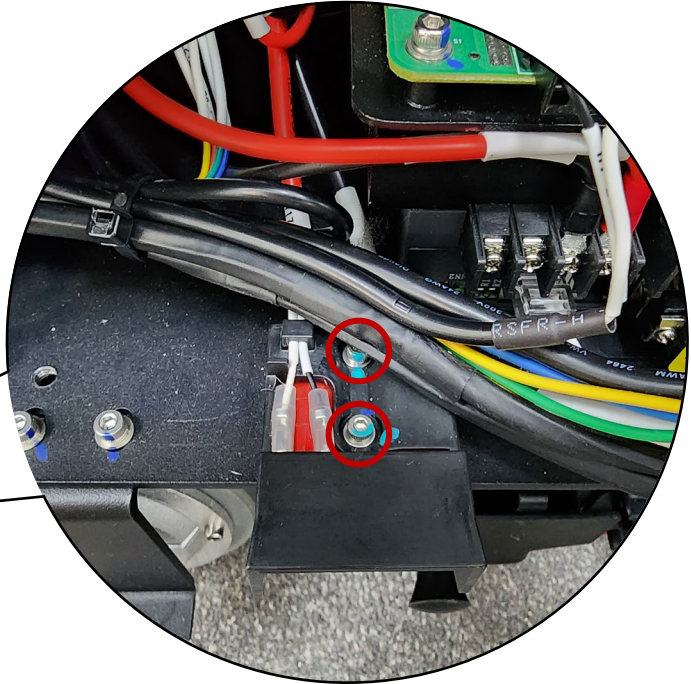
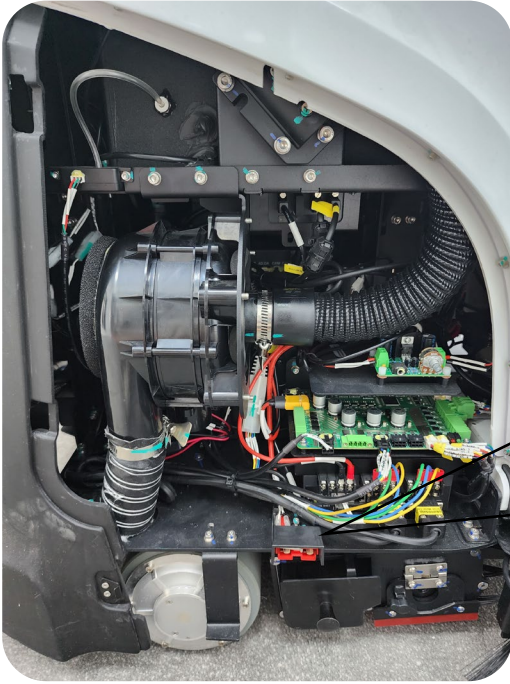


② Remove the peripheral wiring harness of the hybrid driver.

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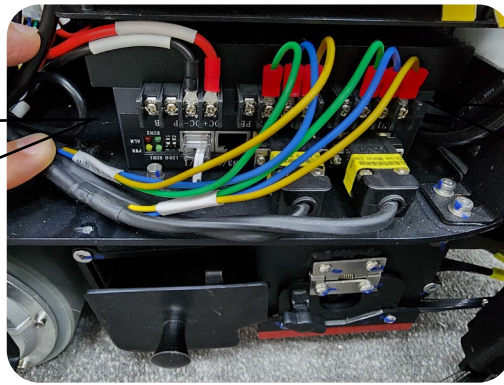
## 2.9.1 Hub driver disassembly



① Remove the screws marked by the red circle and move the manual charging head to one side.



③ Remove the screw marked by the red circle in the picture.



② Remove the peripheral wiring harness of the hybrid driver.

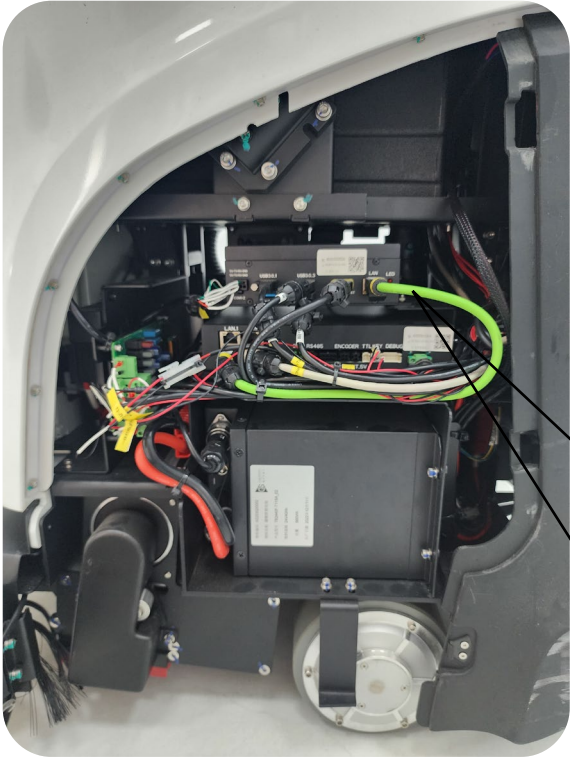


④ Remove the screw marked by the red circle in the picture.

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## 2.6 The lower computer disassembly

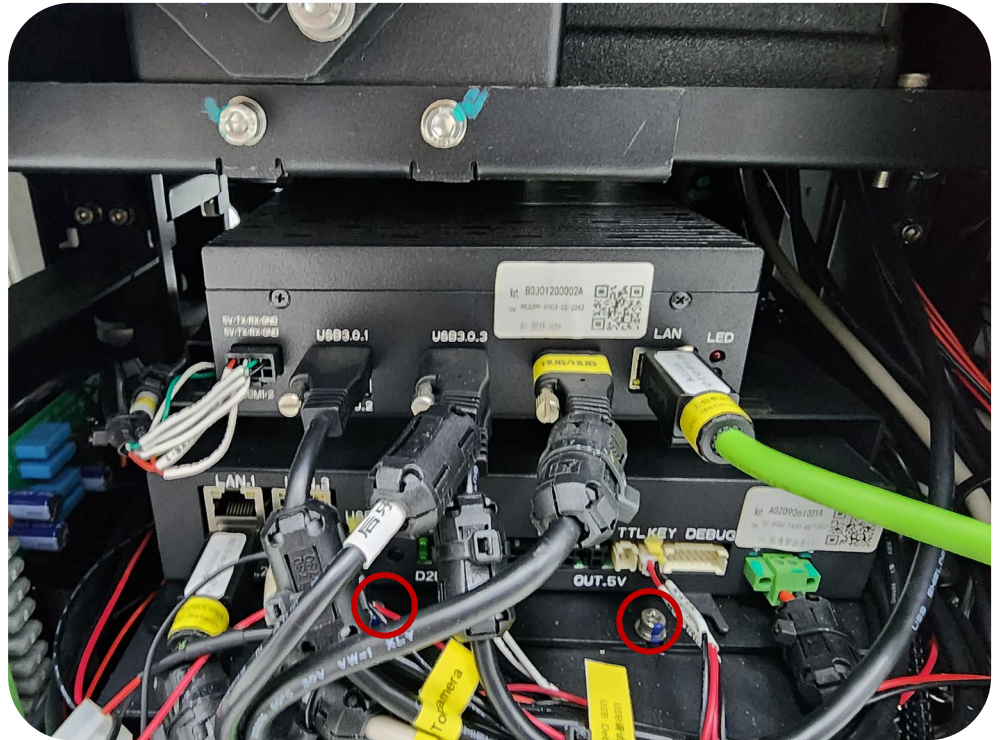
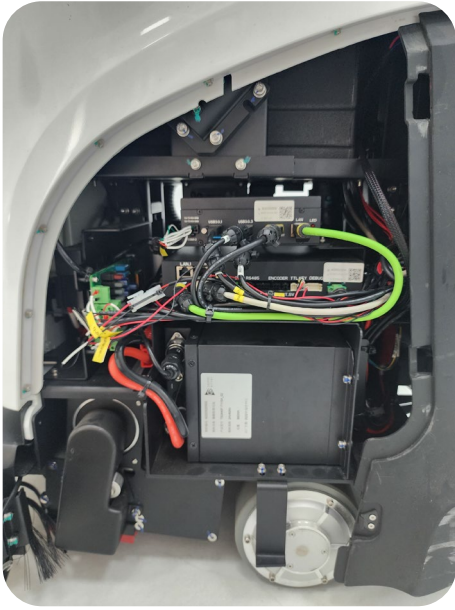


- ① Remove the screw marked in the red circle.
- ② Unplug the peripheral wiring harness of the lower machine (take photos in advance to record the wiring harness insertion position).

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## 2.7 The upper computer disassembly

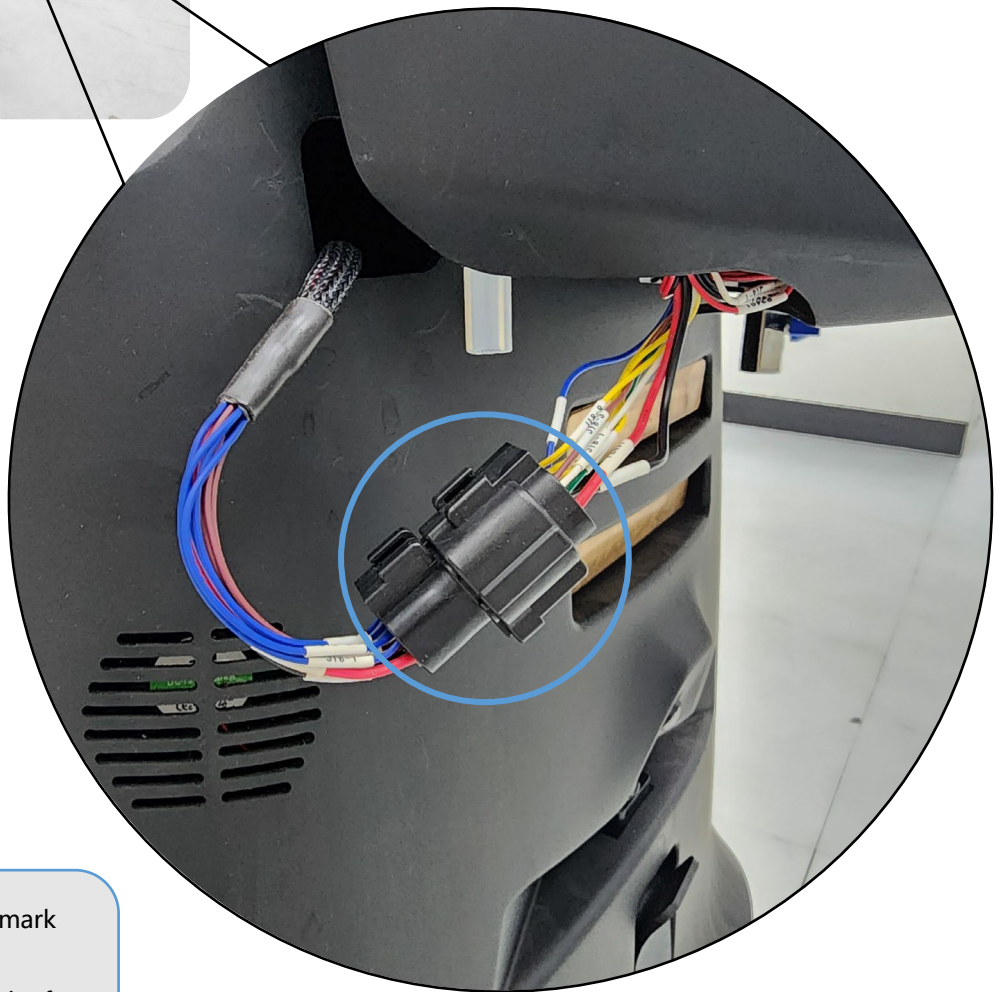


- ① Remove the screw marked in the red circle.
- ② Unplug the external wiring harness of the upper computer (take a photo in advance to record the wiring harness insertion position).

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## 2.8 Disinfection and sterilization backpack disassembly



- ① Unplug the wiring harness at the mark of the basket.
- ② Remove the two screws at the back of the backpack.
- ② Lift up to remove the kill backpack.

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## 2.9 Rear shell disassembly



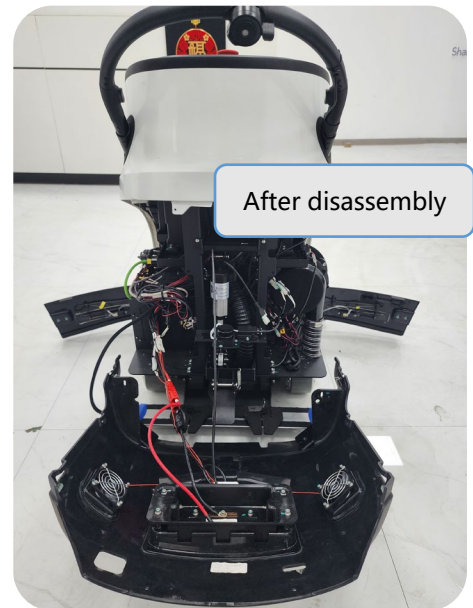
① Remove the screw marked in the red circle.



② Remove the screw marked in the red circle.



③ Remove the screws marked in the red circle.

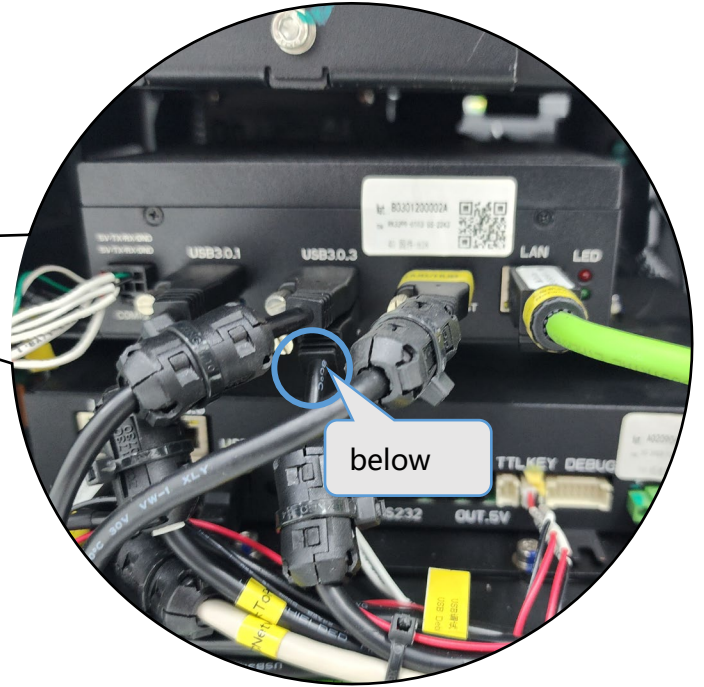
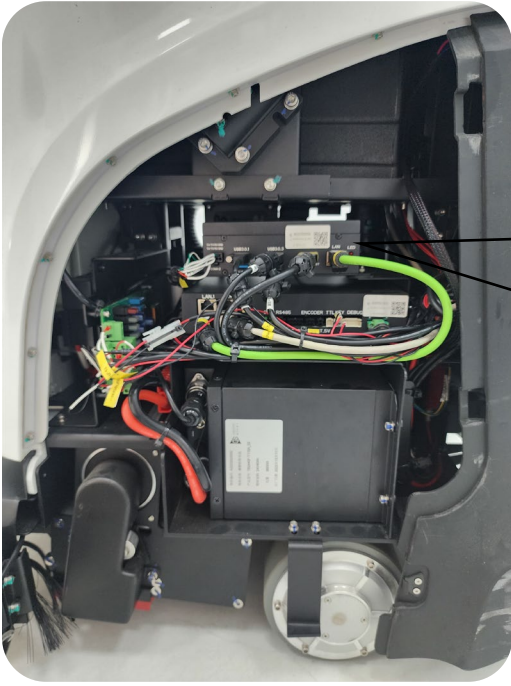


④ Pull back the rear shell.

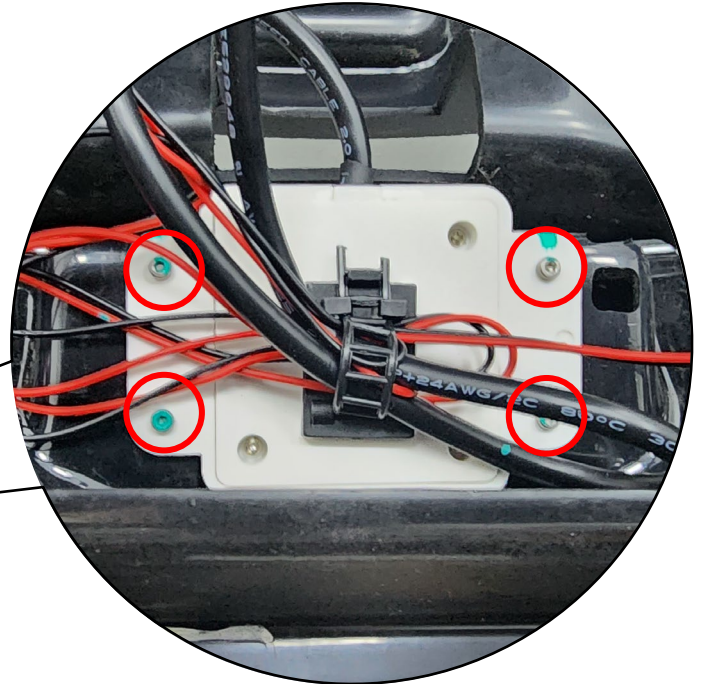
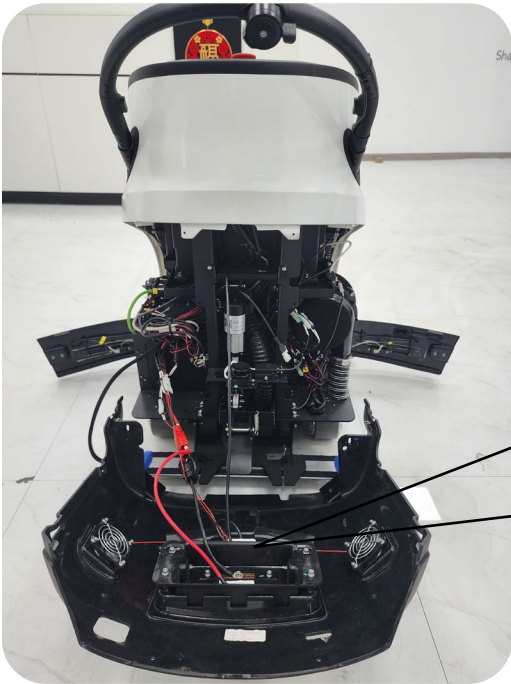
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## 2.9.1 Rear medium color camera disassembly



① Unplug the data cable at the mark of the basket.

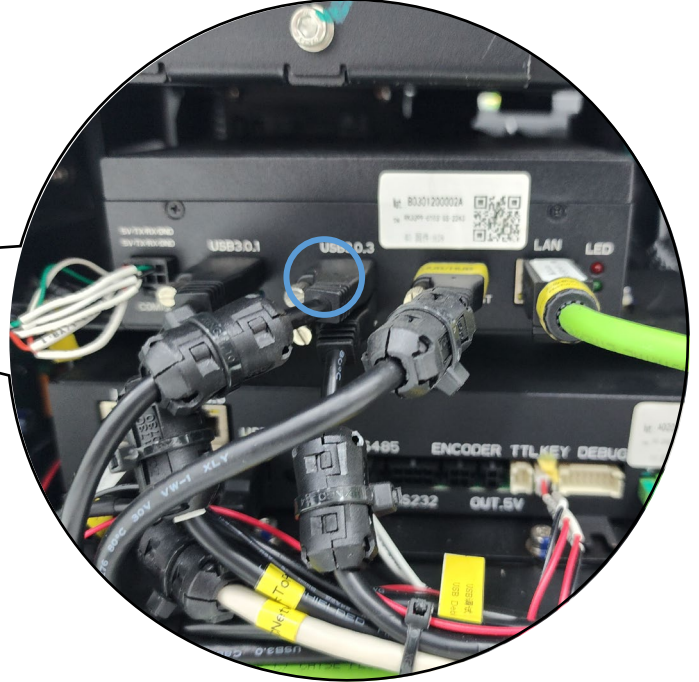
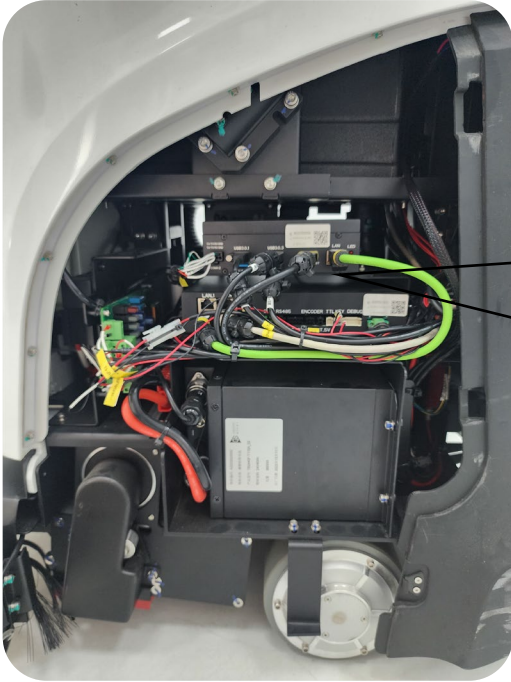


② Remove the screw marked in the red circle.

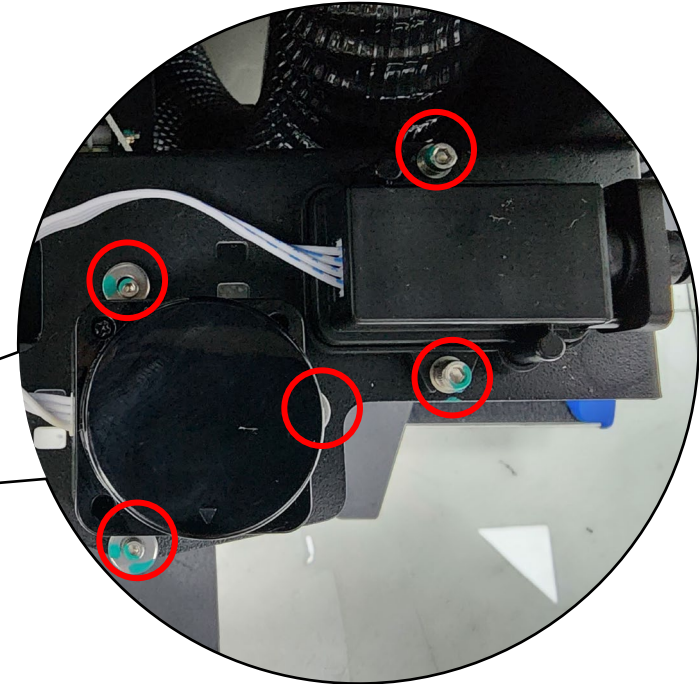
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## 2.9.2 Laser radar disassembly



① Unplug the data cable at the mark of the basket.



② Remove the screw marked in the red circle.

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### 2.9.3 Dust pusher rod motor disassembly

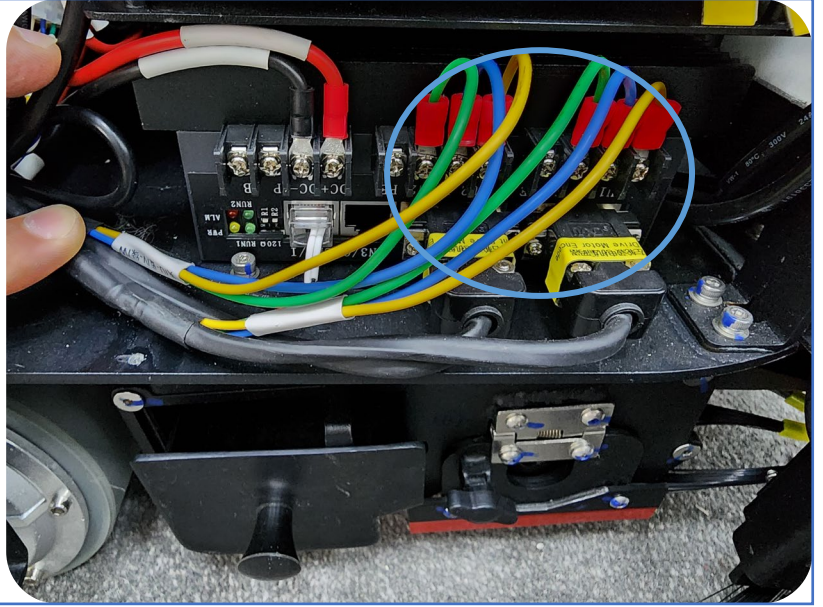
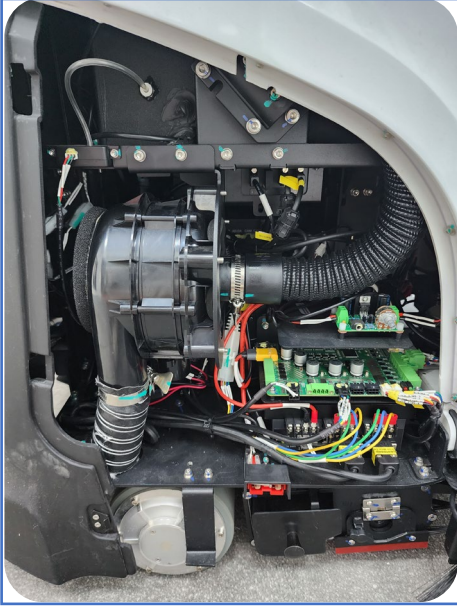


① Remove the R-shaped pin marked in the red circle and remove the latch.

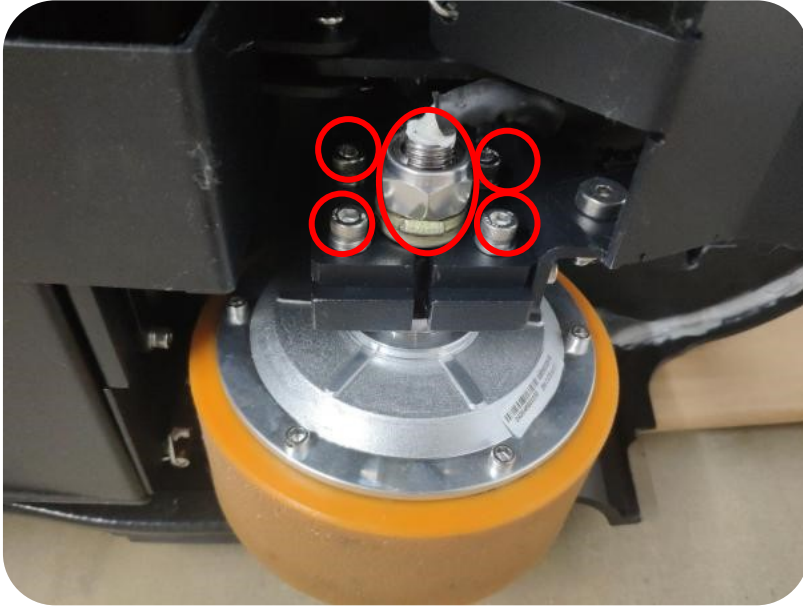
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## 2.10 Wheel hub motor disassembly



① Remove the UVW line and communication line of the wheel hub motor at the mark of the rim in the diagram (pay attention to the left and right positions).



① Place the machine on the side and remove the screws and nuts marked by the red circle in the picture.

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