

# EC-8507B massage chair service guide



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## 一、Product introduction

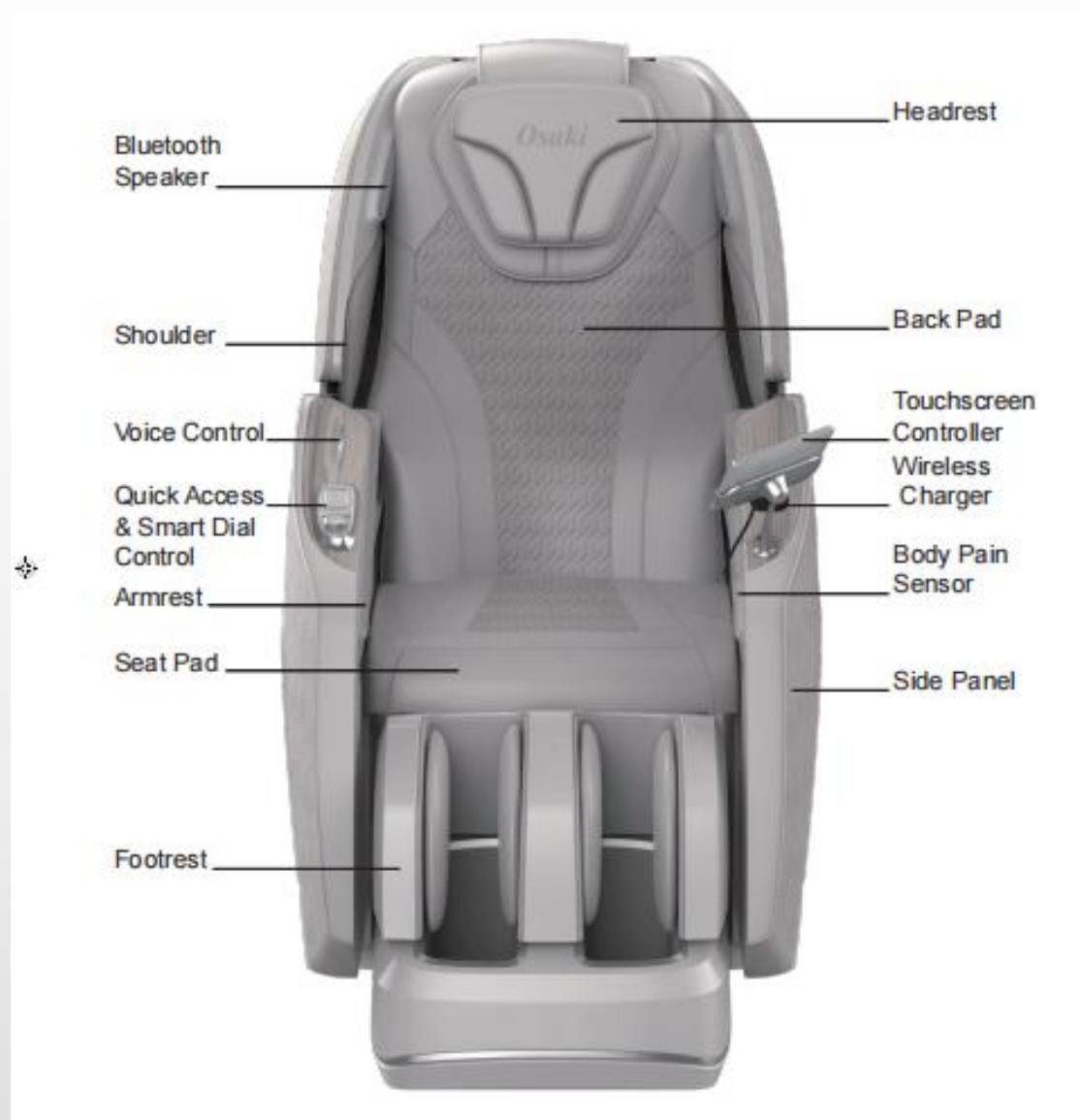
### 1、Product appearance:



## 2、specifications of the products:

<b>Product Name</b>		<b>4D Manhattan Duo</b>
<b>Rated Voltage</b>		110-120V 60Hz
<b>Current</b>		1.7A
<b>Working time</b>		15min
<b>Guide</b>		L Shape 52.4"
<b>Upper 4D Massage Rollers</b>	<b>Forward arc distance</b>	Approx. 2.64"
	<b>Strength</b>	5 levels
	<b>Speed</b>	5 levels
<b>Lower 3D Massage Rollers</b>	<b>Forward arc distance</b>	Approx. 3.35"
	<b>Strength</b>	5 levels
	<b>Speed</b>	5 levels
<b>Airbags</b>	<b>Intensity</b>	5 levels
<b>Angle Adjustment</b>	<b>Backrest</b>	Approx 128°- 155° (Ground Angle)
	<b>Footrest</b>	Approx 7°-65° (Wall Angle)
<b>Size</b>	<b>Upright</b>	63.0" x 31.5" x 47.6"
	<b>Reclined</b>	76.8" x 31.5" x 40.9"
<b>Extension of Footrest</b>		Approx 7.1"
<b>Dimensions of Packing (L*W*H)</b>		57.9" x 33.5" x 50.8"
<b>N.W.</b>		273.2 lbs
<b>G.W.</b>		329.6 lbs
<b>Weight of Chair</b>		Approx 273.2 lbs
<b>Usage Condition</b>		Environment temperature : °32°F-95°F
		Contrasting humidity : °20-80RH
<b>Storage Condition</b>		Storage temperature : °23°F-95°F
		Storage humidity : °20-80RH
<b>Maximum Weight of User</b>		260 lbs

### 3、Appearance of the whole machine:

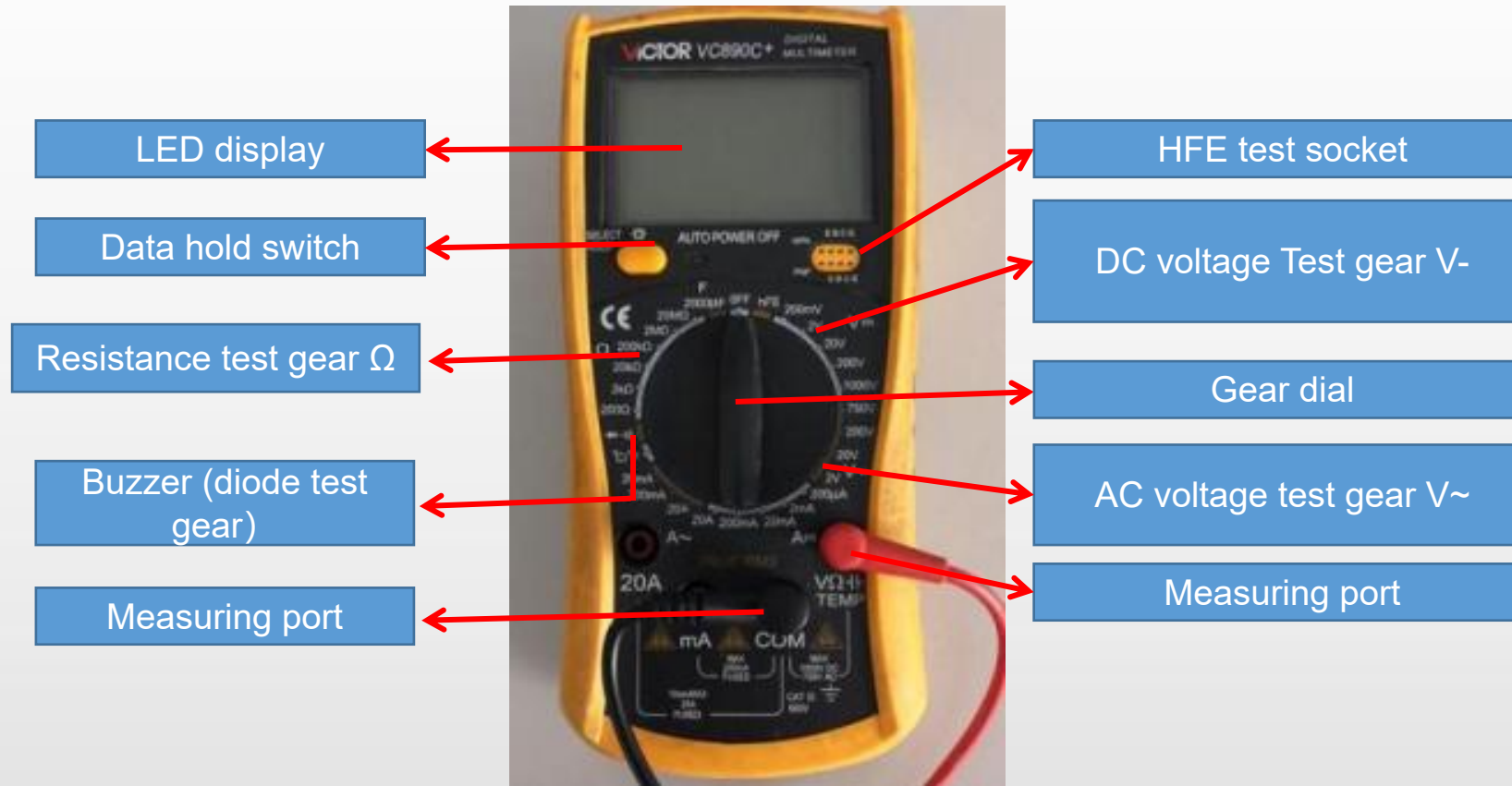


## 二、 Massage chair tools and use

### 1.tools

					
Screwdriver size 1,2,3	Diagonal cutter and long nose pliers	Soldering Kit	Spanner tools Kit	Test pen	Allen Key set
					
Ratchet Tools Set	24V/DC power	Electric Driver	electrical adhesive tape	Cable Ties	WIRE ONECTORS

## 2.Usage of multimeter



## 2.1、Function of the test gears

**Data hold switch:** Memorize the measured data for comparison.

**Buzzer (diode test gear) :** Measure the quality of diode, the on-off and alarm function of circuit

**Resistance gear test gear:** Measure the quality and value of resistance

**DC voltage Test gear V-:** Measure DC voltage

**AC voltage test gear V~:** Measure AC voltage

**VΩ / COM:** VΩ Red pen port (+ pole) during test, black pen port (- pole) during com test

**Note:** when carrying out resistance or voltage test, it is necessary to select a suitable range. If the range is too small to be measured, and the range is too large, the test error range is large; if the voltage is not known, it is necessary to select a range measurement with a large windlass.

## 2.2、 On / off measurement of lines



**open circuit**

As shown in the left picture, first set the multimeter to the buzzer and power it  
When the switch is on, the multimeter will display "0."; then contact the two probes with the ends of the red wire  
At this time, the multimeter still shows "1." there is no change, which means there is an open circuit in the middle of the wire, that is, the line is open.



**close circuit**

As shown in the picture on the left, if the multimeter shows the number of ". 002" or ". 00n" and gives an alarm, it means that the wire is connected.

## 2.3、Measurement of AC voltage



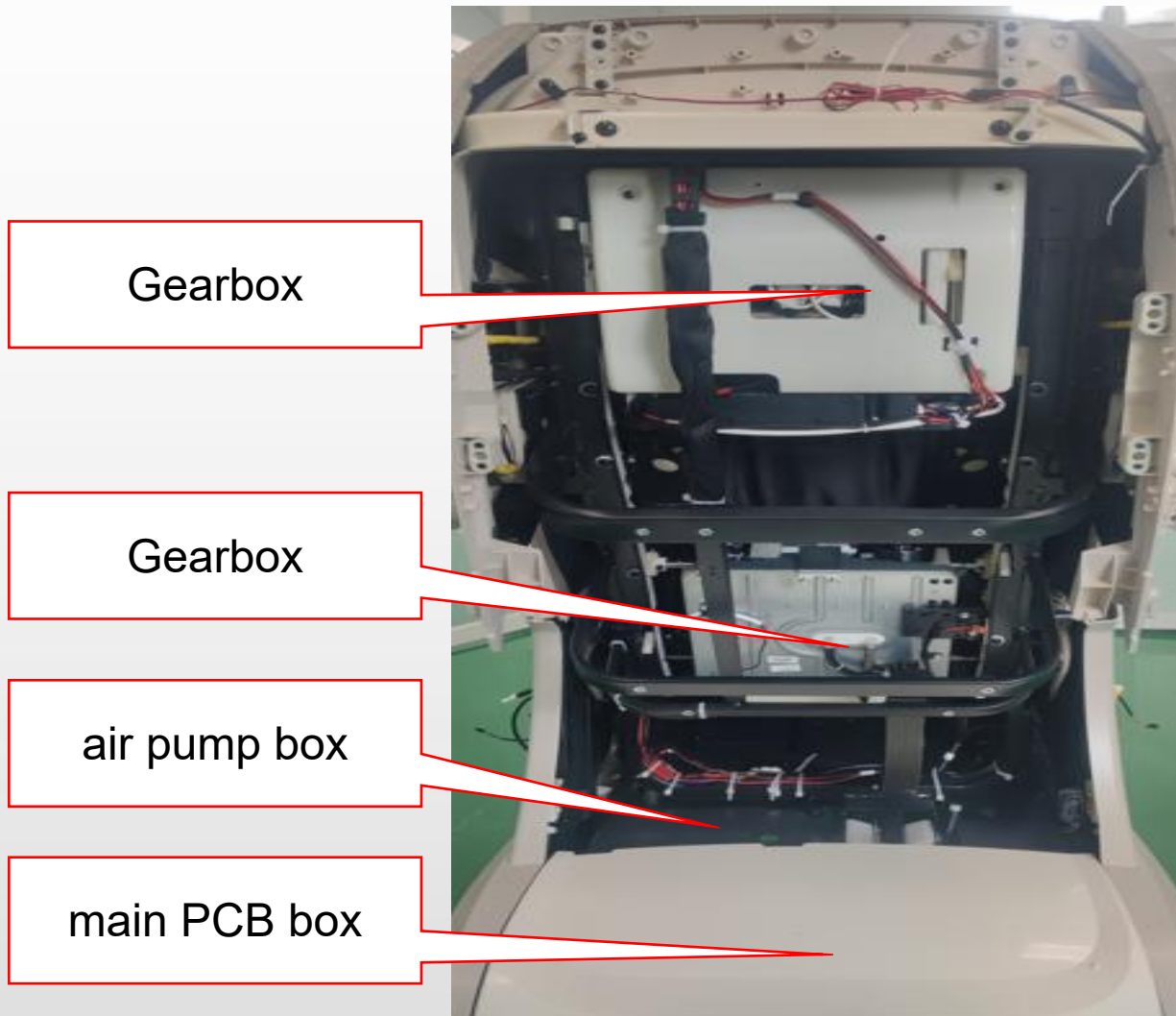
As shown in the picture above: measure the household plug-in board power supply (220V), select the range of 750, and the test result shows "224", indicating that the actual voltage of this group of sockets is 224v at the moment (the switch is pressed down, so there is power, and the light is on).



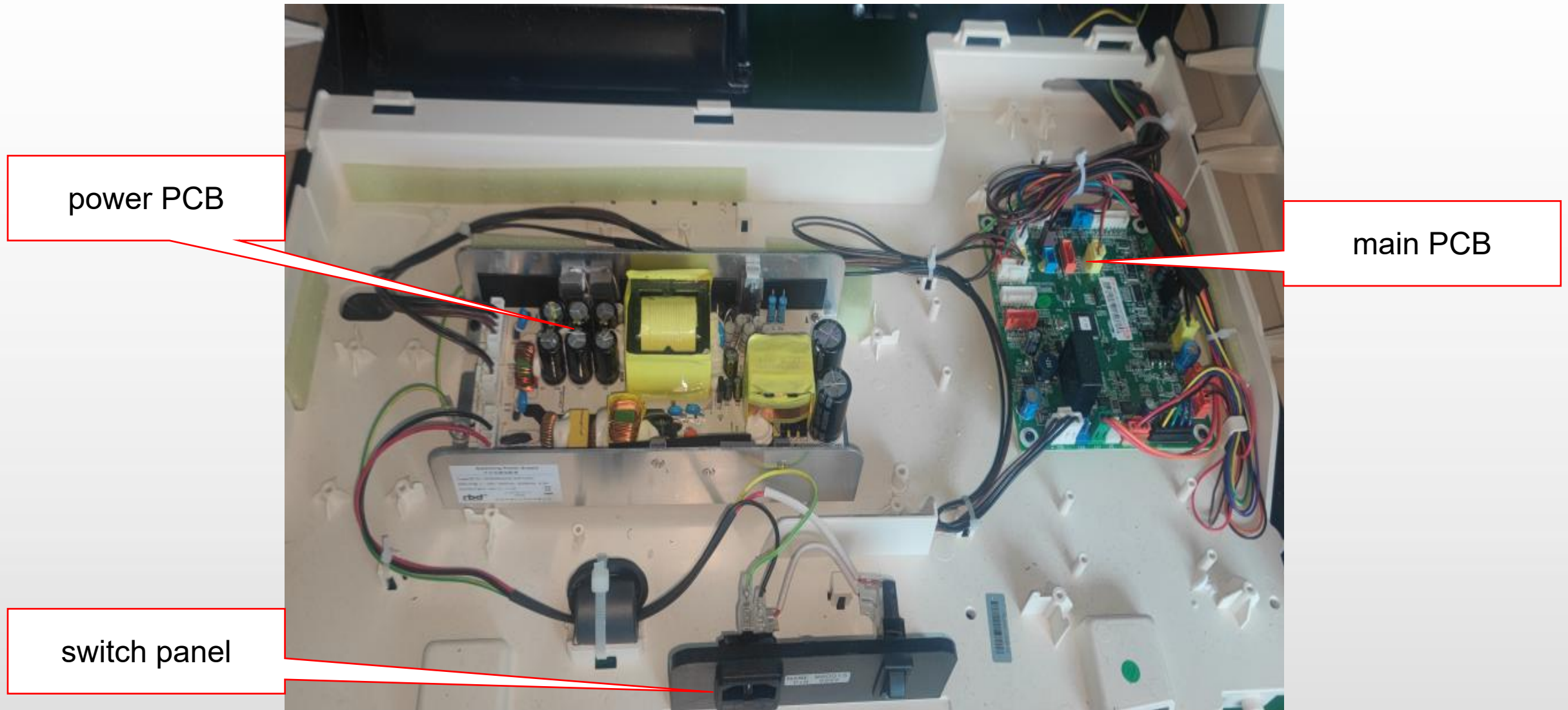
As shown in the above picture: measure the power supply (220V) of our household plug-in board, select the range of 750, and the test result is displayed as "001", indicating that the actual voltage of this group of sockets is 0V at the moment (the switch is not pressed down, so there is no power, and the light is not on).

## 三、Circuit working principle

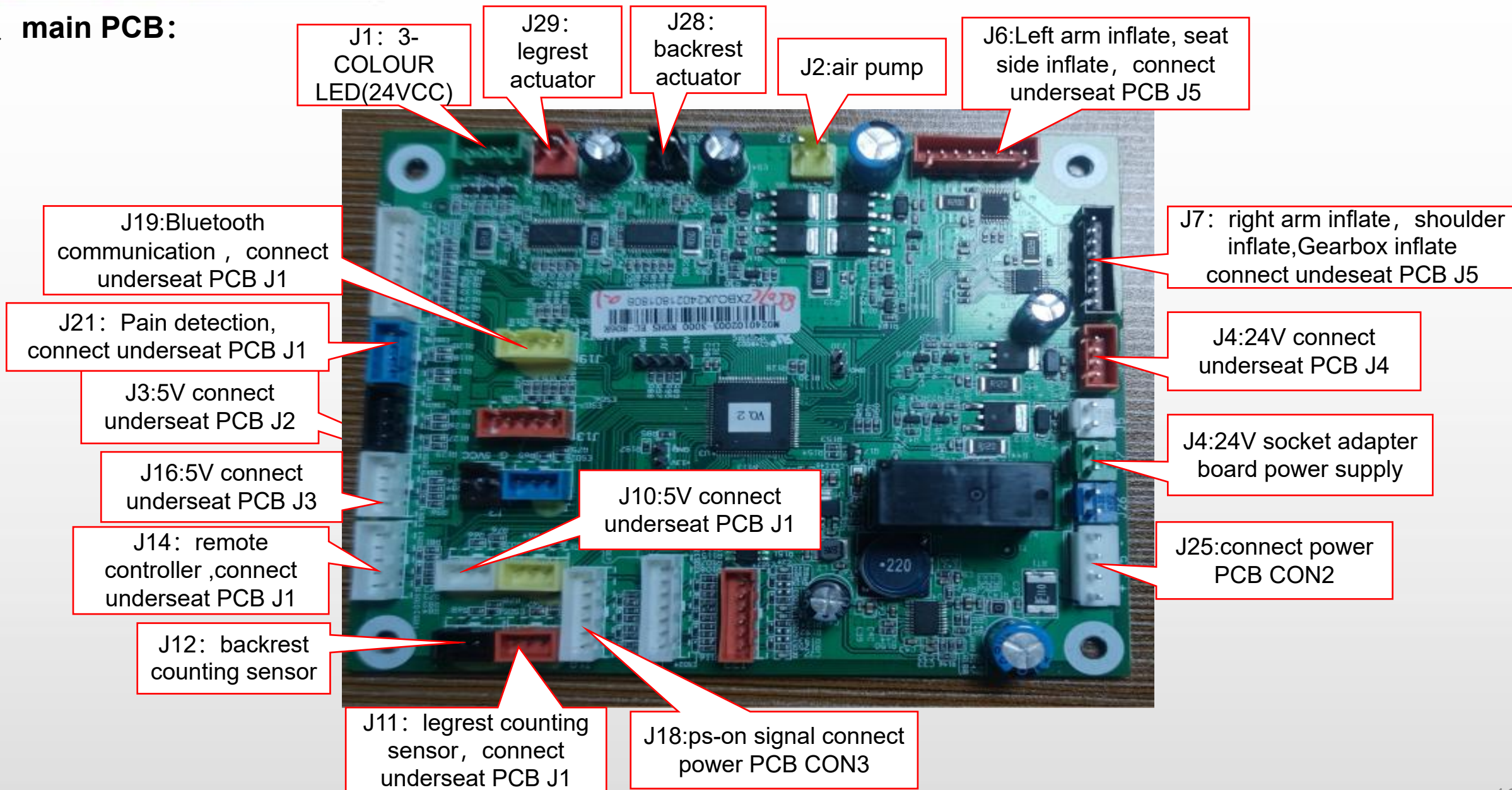
### 1、Internal structure diagram (overall):



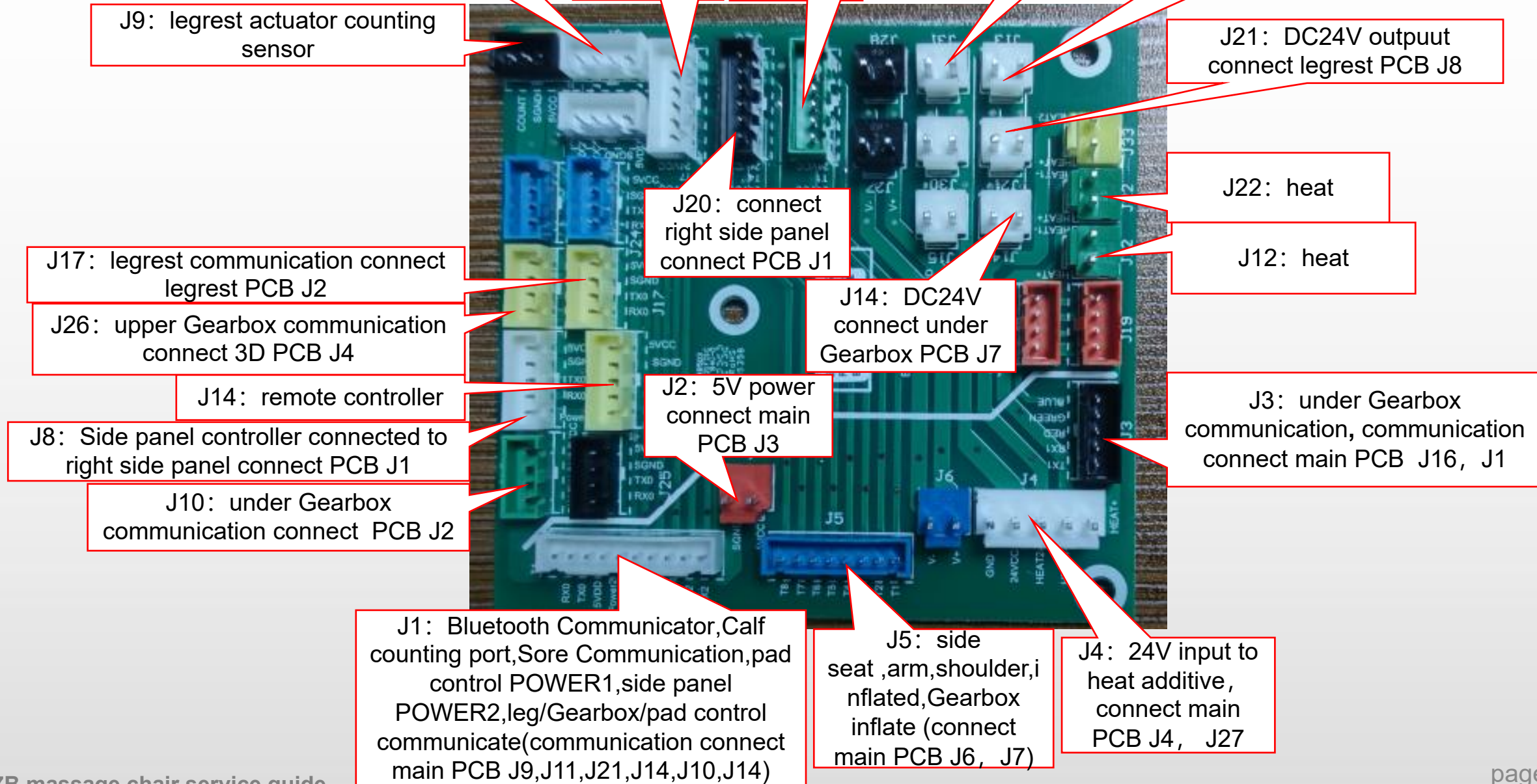
## 2、 Internal structure diagram (main PCB box):



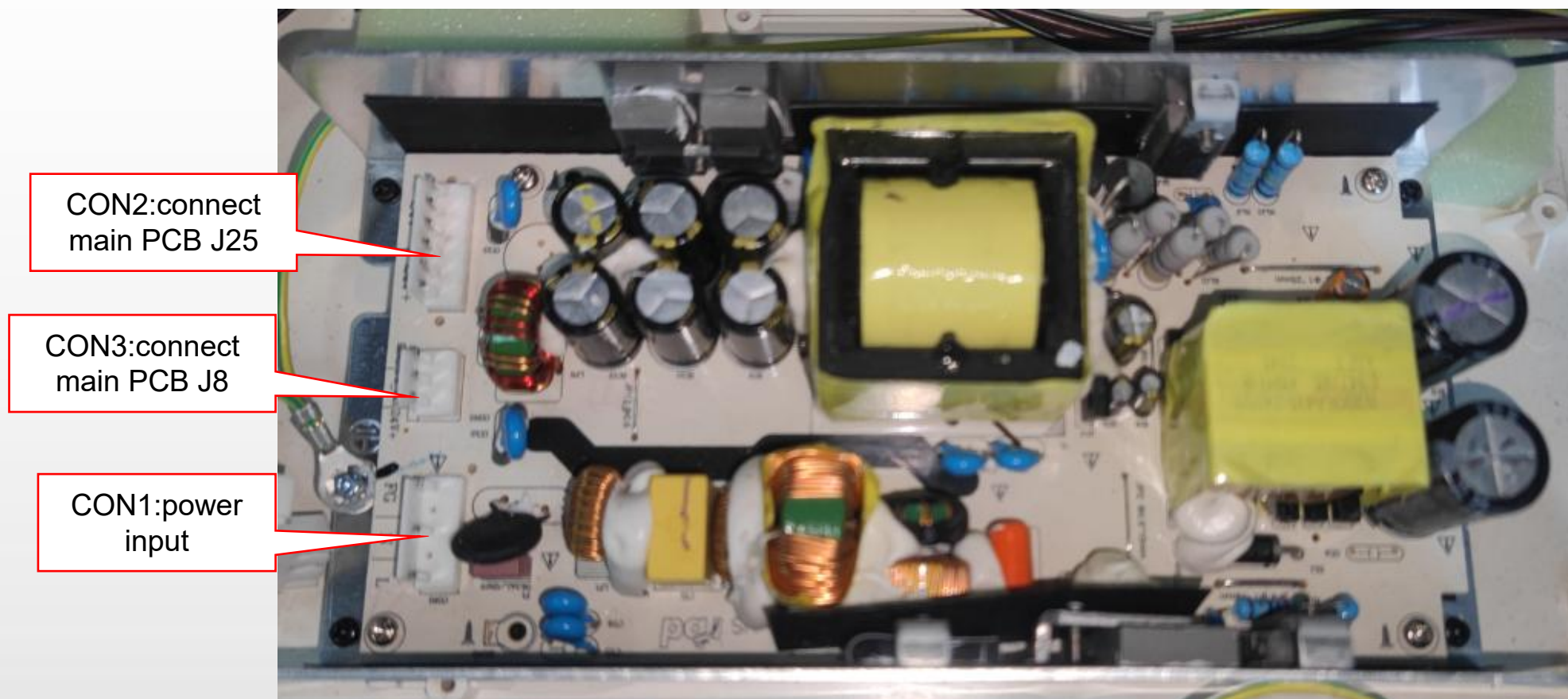
### 3、main PCB:



#### 4、underseat PCB:



## 5、 power PCB:



## 6、 upper Gearbox PCB:



J7: 24V,connect  
underseat PCB J13

J6-1:telescopic motor

J6-2:tapping motor

J6-3:kneading motor

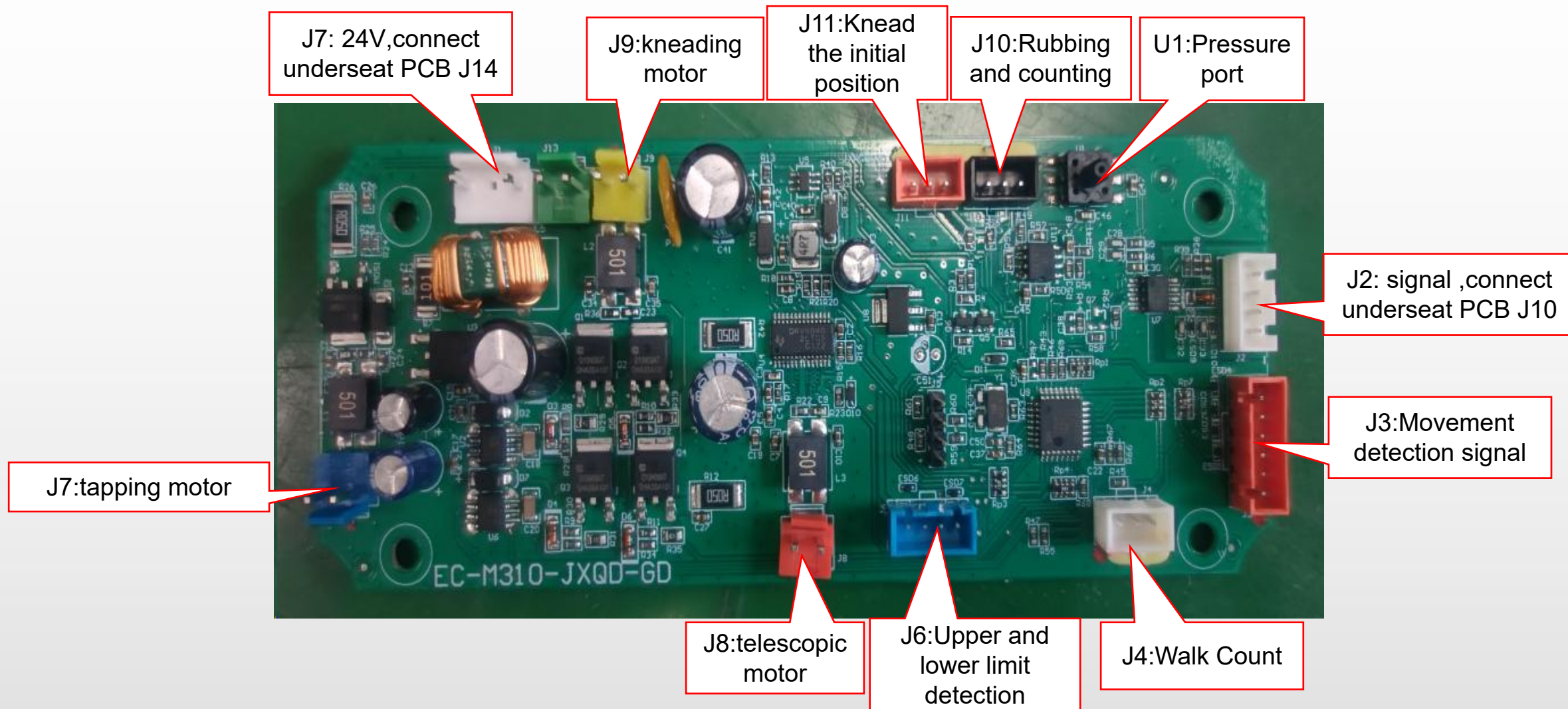
J5: telescopic motor

J4: signal ,connect  
underseat PCB J26

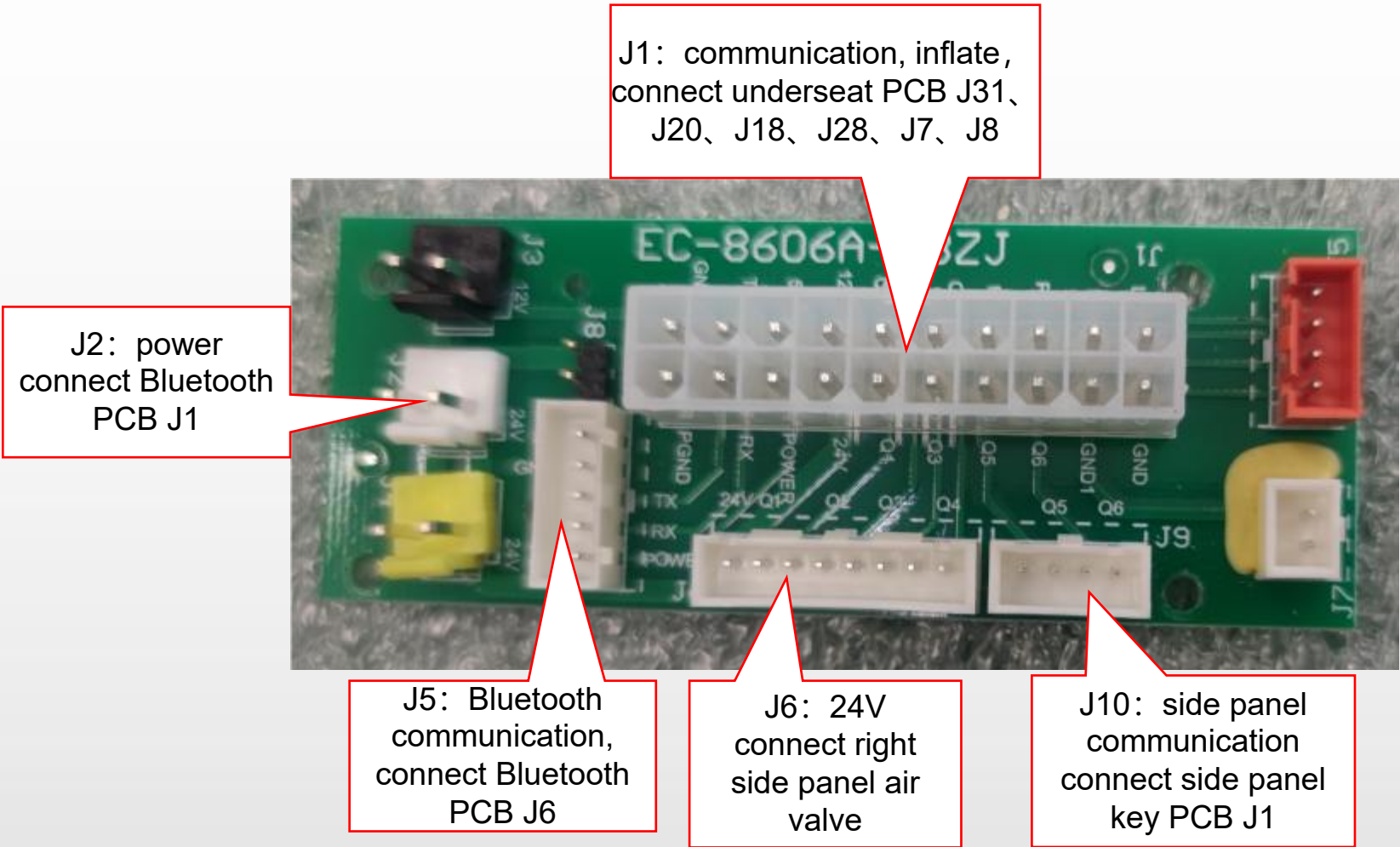
J2:Movement  
detection signal

J3:Movement  
detection signal

## 7、 under Gearbox PCB:



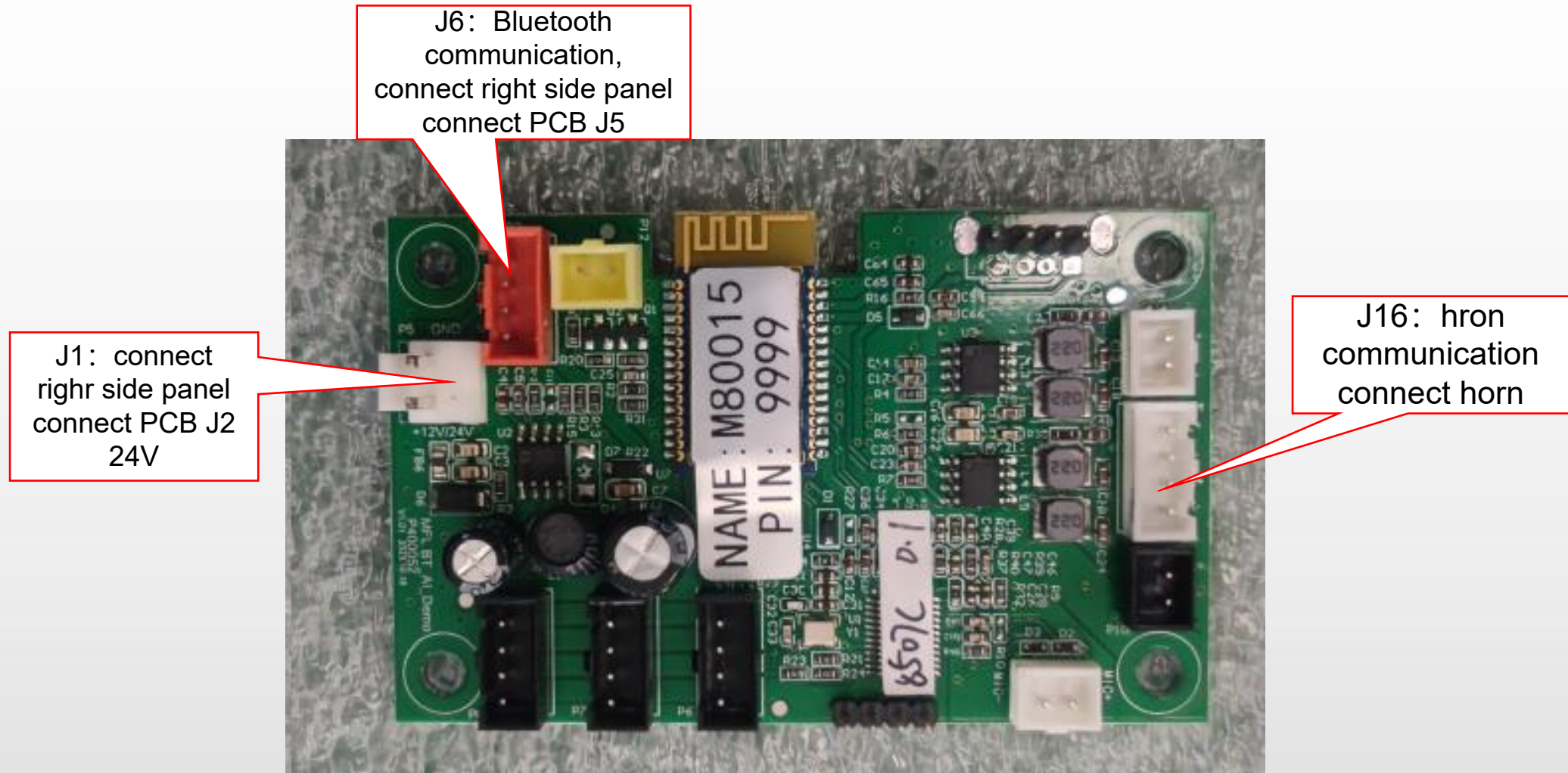
**8、 right side panel connect PCB:**



## 9、Charging PCB :



## 10、 Bluetooth PCB :



## 11、legrest PCB:

J8: 24V connect  
underseat PCB J21

J10: Lower leg inflation port connected to air pressure  
detection PCB J6

J7: Foot roll detection

J9: connect Leg  
extension detection  
PCB and touchdown  
wheel

J4: upper legrest extension connect  
upper legrest pinch motor

J2: communication,  
connect underseat  
PCB J17

J1: connect foot massage 24V

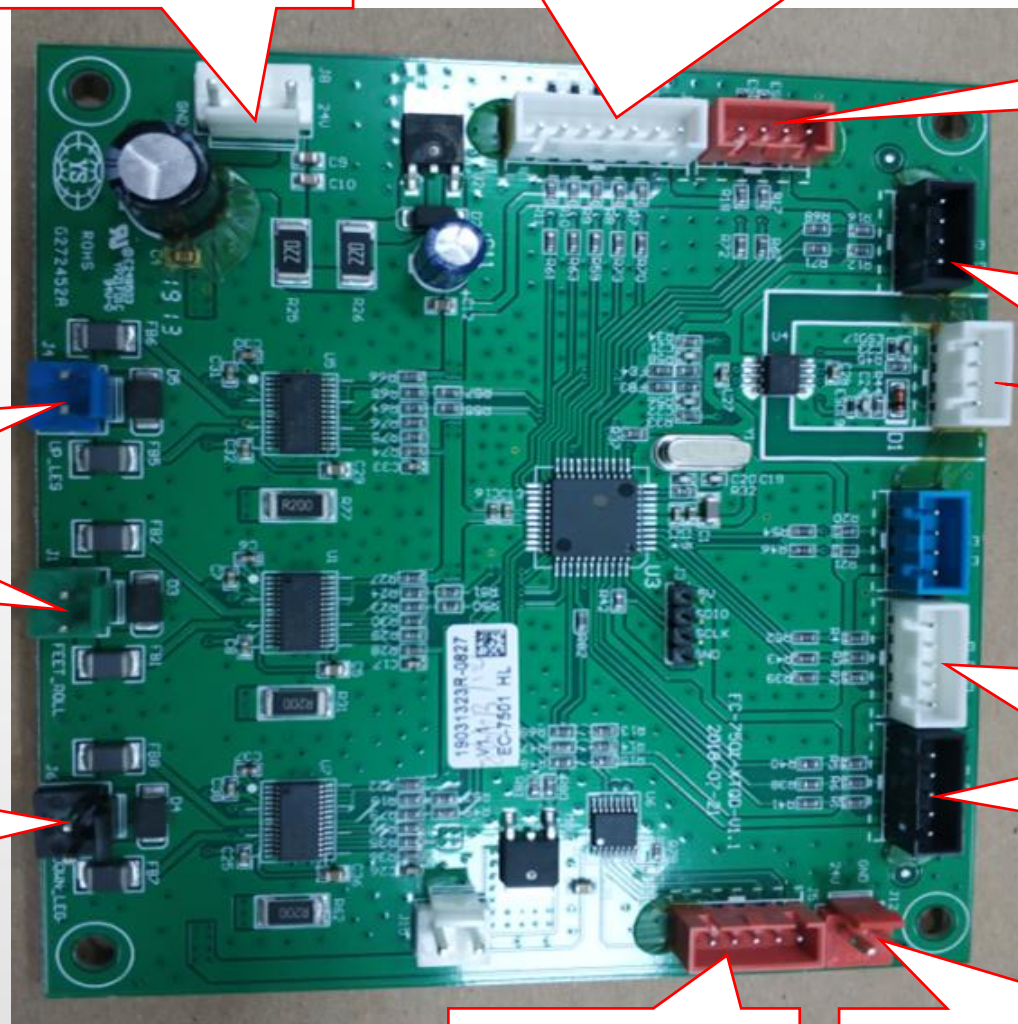
J13: Upper leg  
extension detection  
Connect anti pinch PCB  
J1

J6: connect lower legrest extension  
motor

J14: connect lower leg  
extension detection

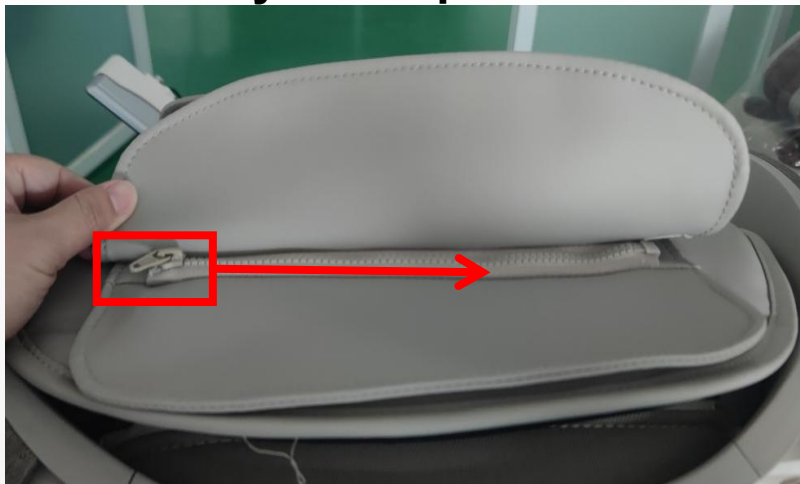
J5: Connect the  
lower leg to inflate

J12: DC24 V power output connect  
to air pressure detection PCB J4



## 四、Massage chair removal instructions

### 1、disassembly of the pillow:



A.unzip the zipper



BIG pillow



B.unzip the zipper



small pillow

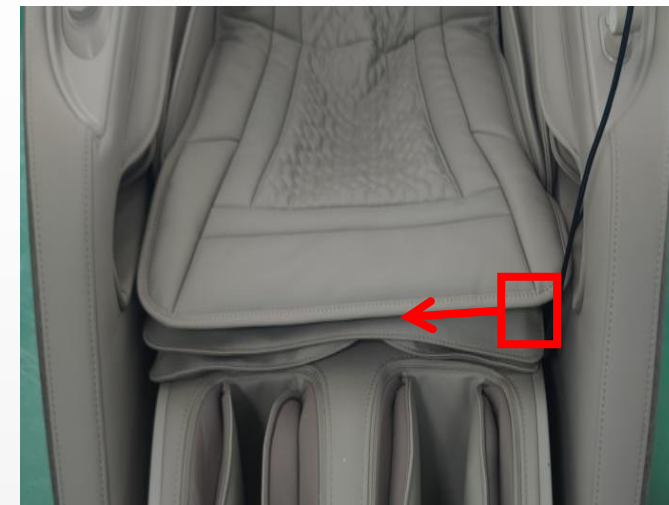
## 2、disassembly of backrest pad:



A..unzip the zipper



B.unzip the zipper



C.unzip the zipper



D.unzip the zipper



E.unzip the zipper



F.Disconnect the connecting wire



backrest pad

### 3、disassembly of right side panel:



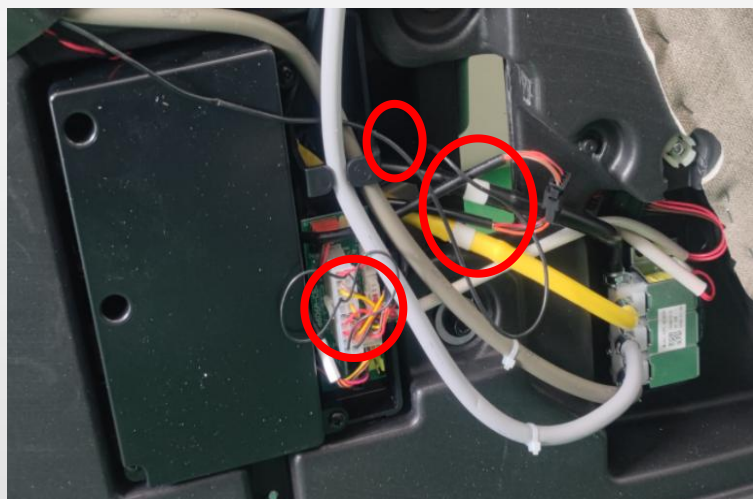
A.open the cover



B.side panel cover



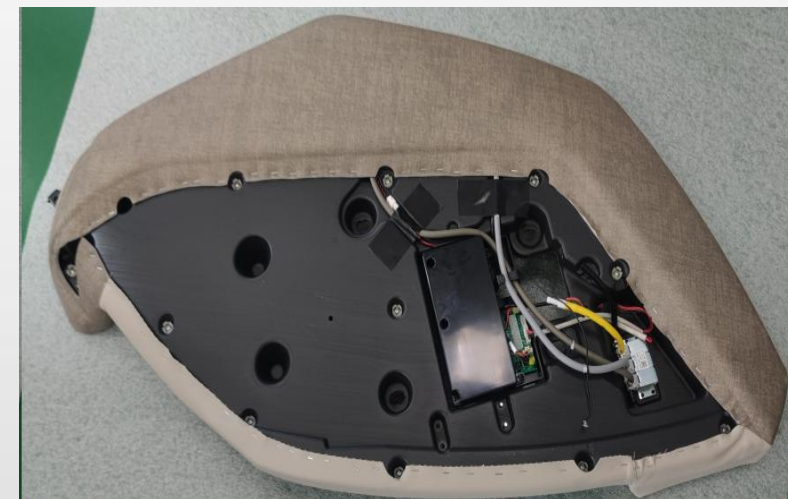
C.hood cover



D.disconnect the terminal and air  
hose, remove 1 screws



E.remove 6 screws

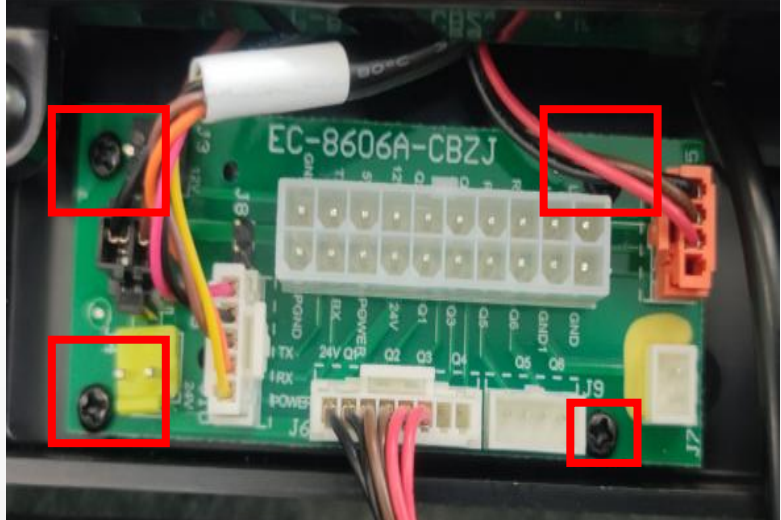


F.right side panel

#### 4、disassembly of inner right side panel:



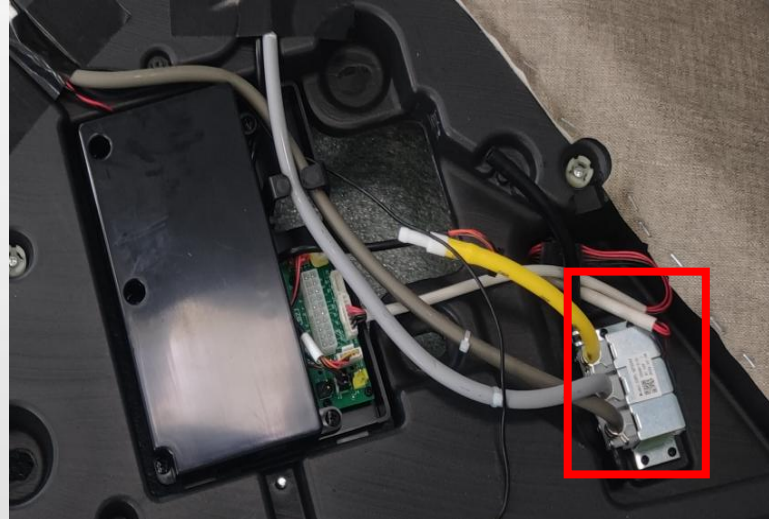
A.disconnect the terminal



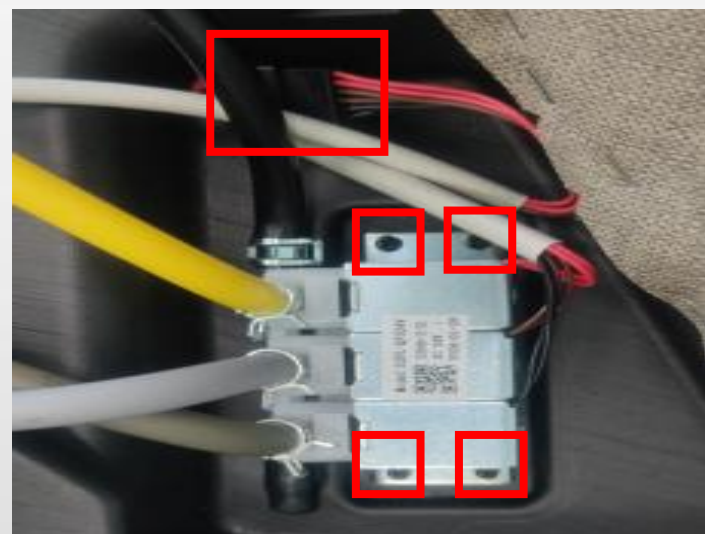
B.remove 4 screws



C.side panel switch PCB



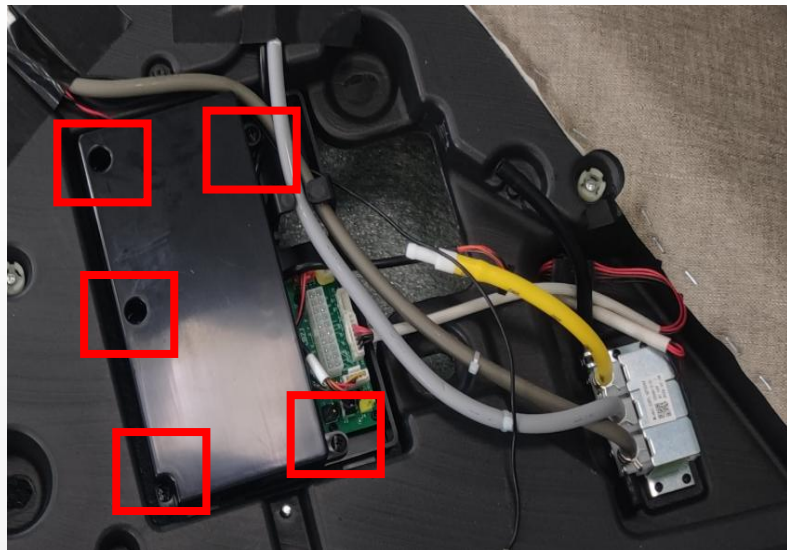
D. air valve



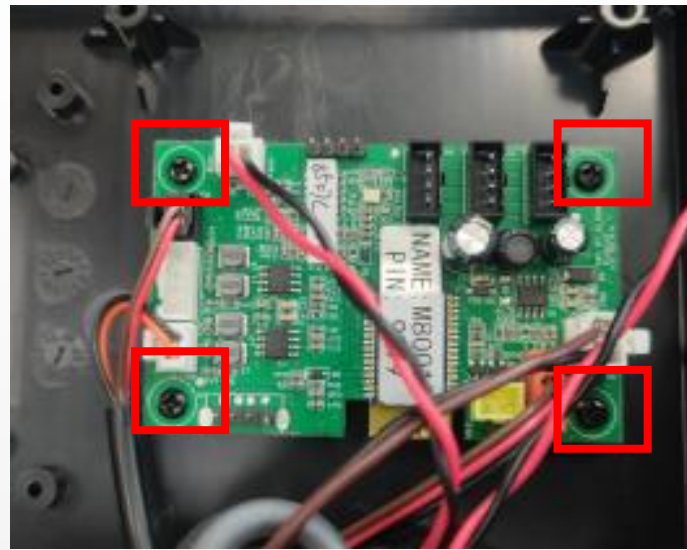
E. disconnect the terminal and  
remove 4 screws



air valve



F. remove 5 screws



G. disconnect the terminals, remove 4 screws



H. Bluetooth PCB



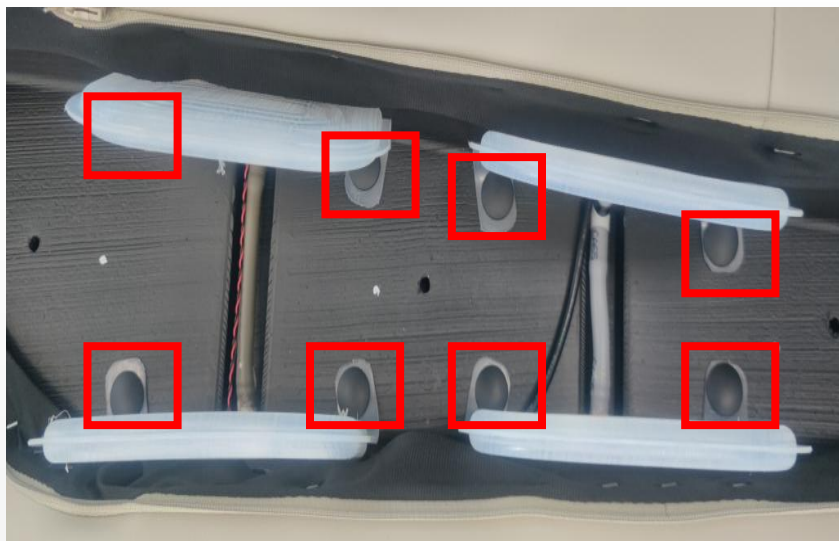
I. unzip the zipper



J. remove the arm cover



arm cover



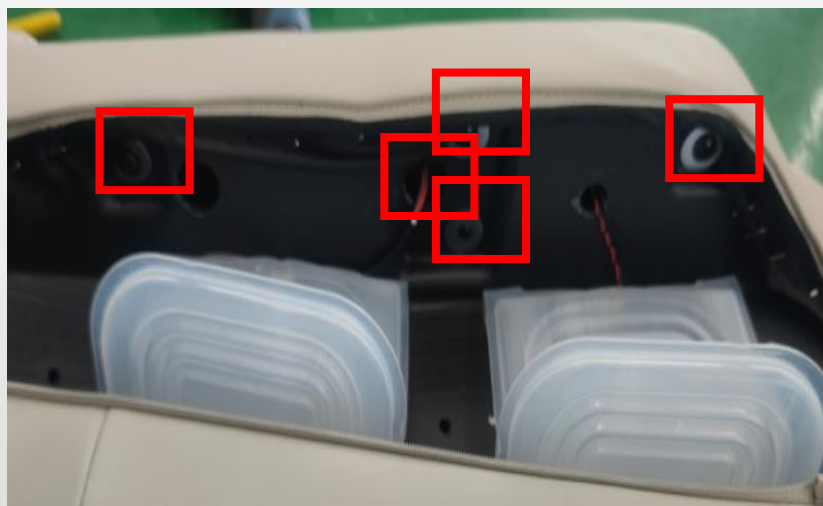
K. break open the cloth cover pin,  
disconnect the air hose



air bag



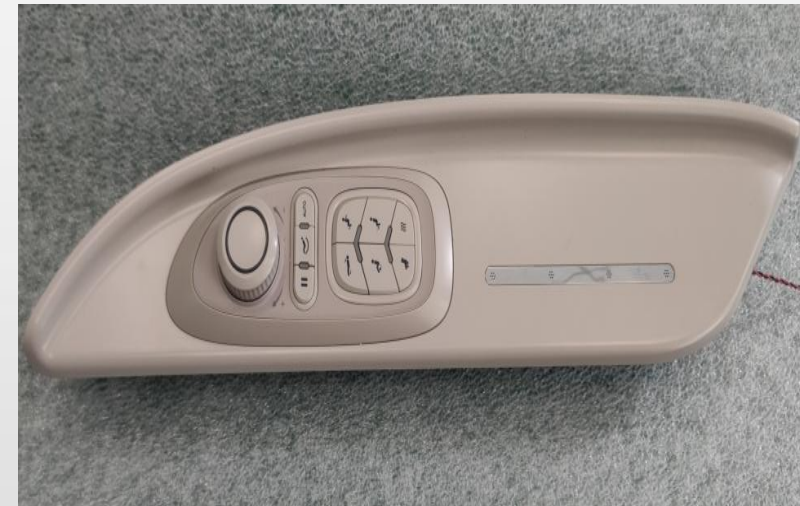
L. disconnect the terminals



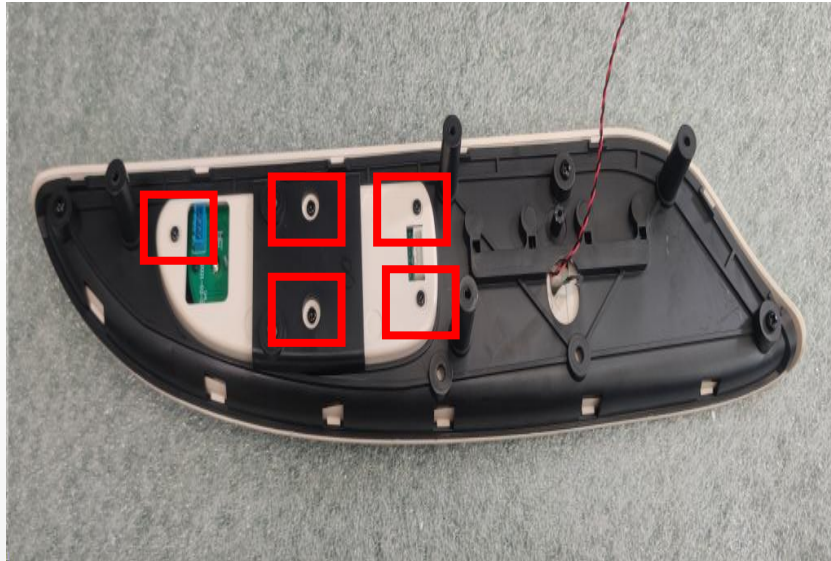
M. disconnect the terminals,remove 5 screws  
8507B massage chair service guide



N. remove 1 screws



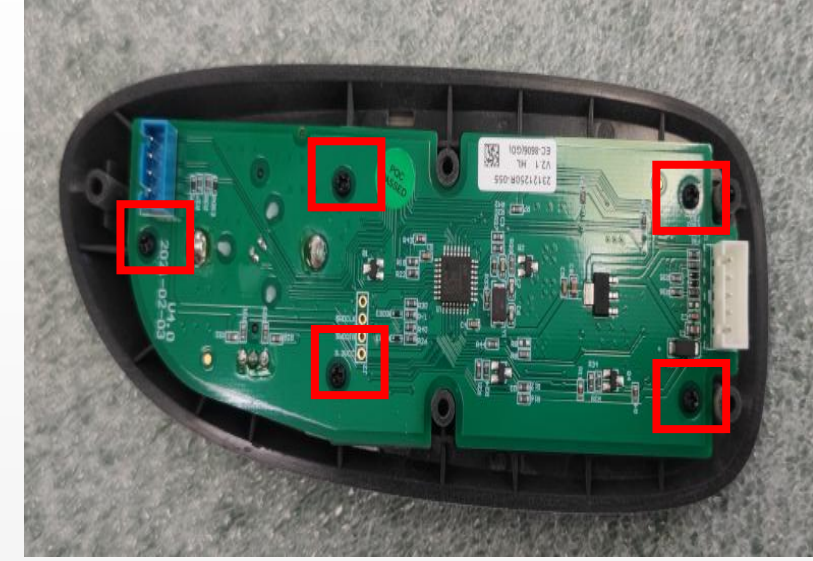
upper cover component of right armrest



O. remove 5 screws



side panel controller component



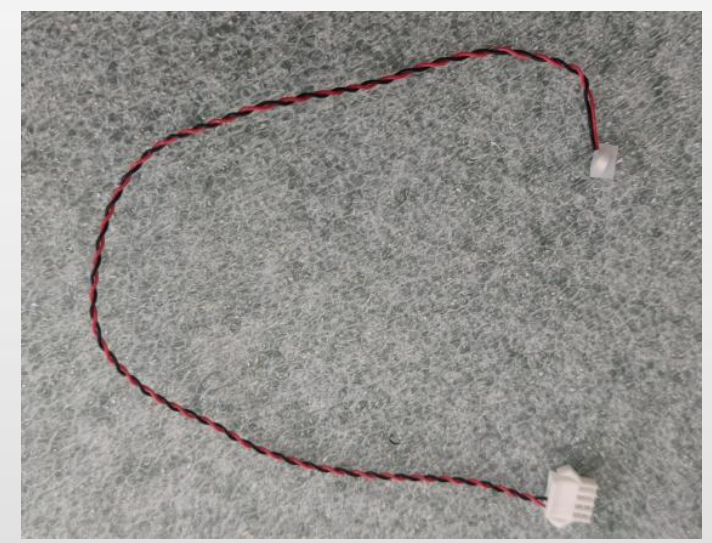
P. remove 5 screws



Q . remove 3 screws



R .tear off the film



microphone

## 5、disassembly of left side panel:



A .open the cover



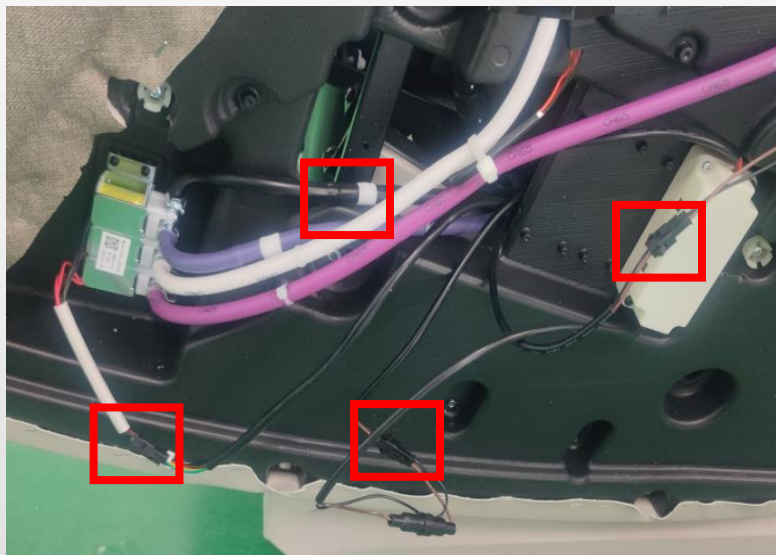
B .left side panel



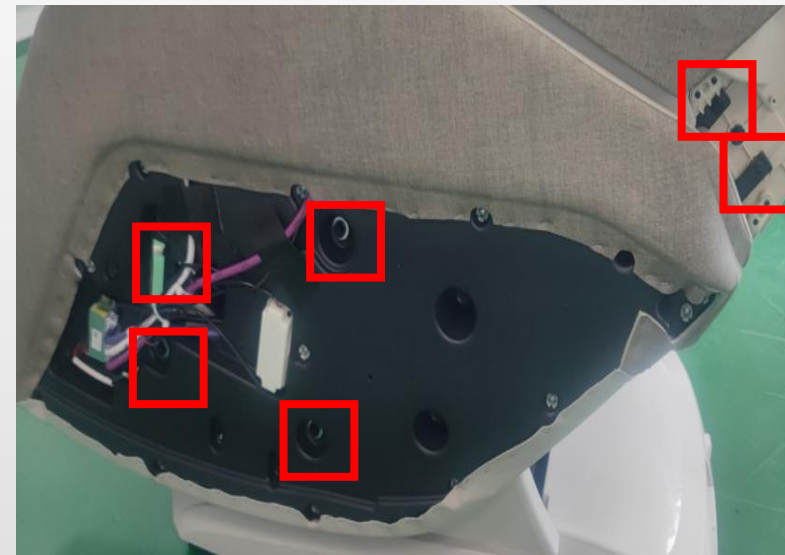
C .hood cover



D .cut the cable tie



E.disconnect the air hose and termis



E .remove 6 screws

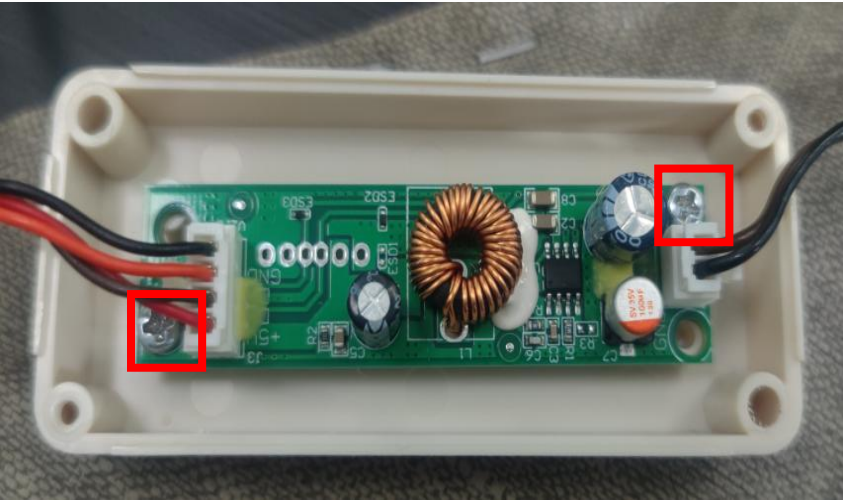


left side panel

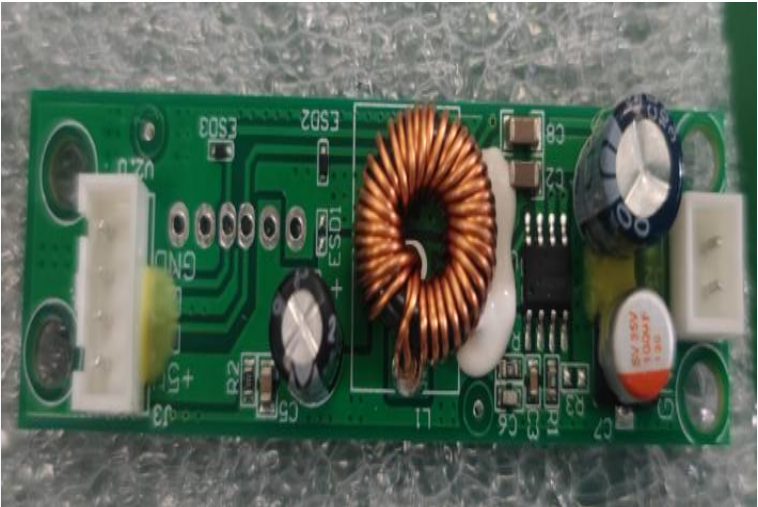
## 6、disassembly of inner left side panel:



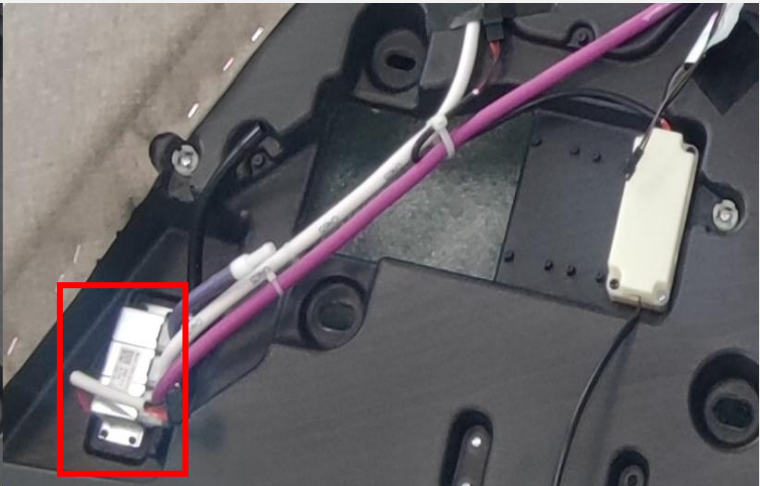
A. remove 4 screws



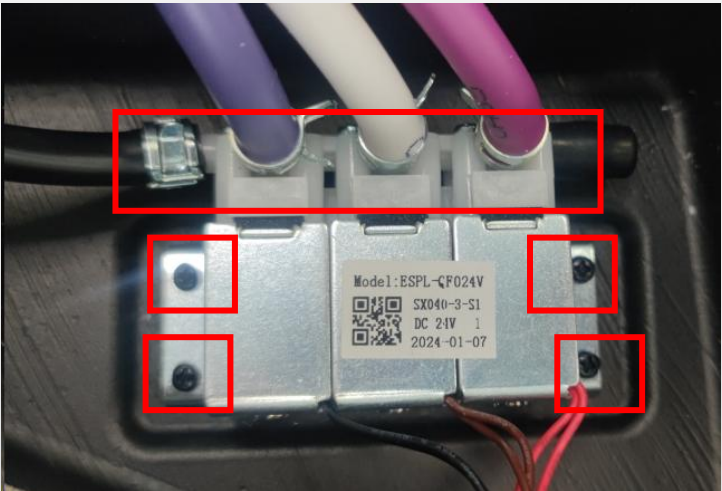
B .remove 4 screws, disconnect terminals



USB PCB



C. air valve



D. disconnect the terminal and air hose, remove 4 screws



air valve



E.unzip the zipper



F.remove the arm cover



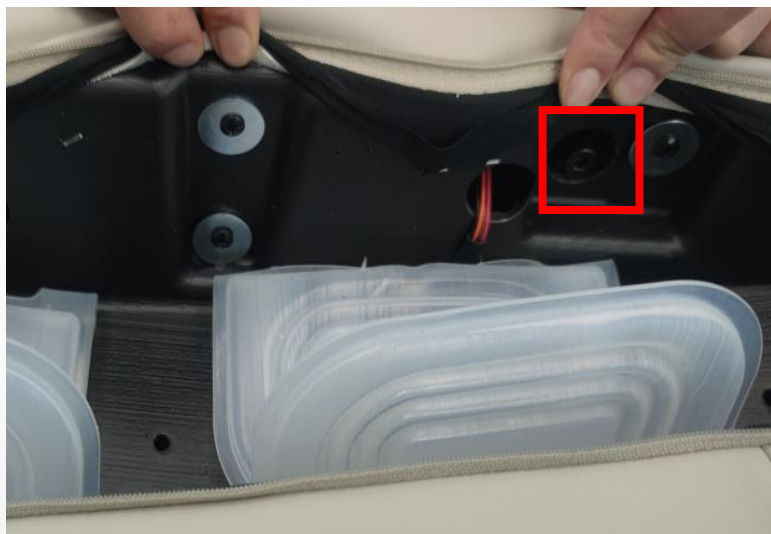
arm cover



G. break open the cloth cover pin,  
disconnect the air hose



air bag



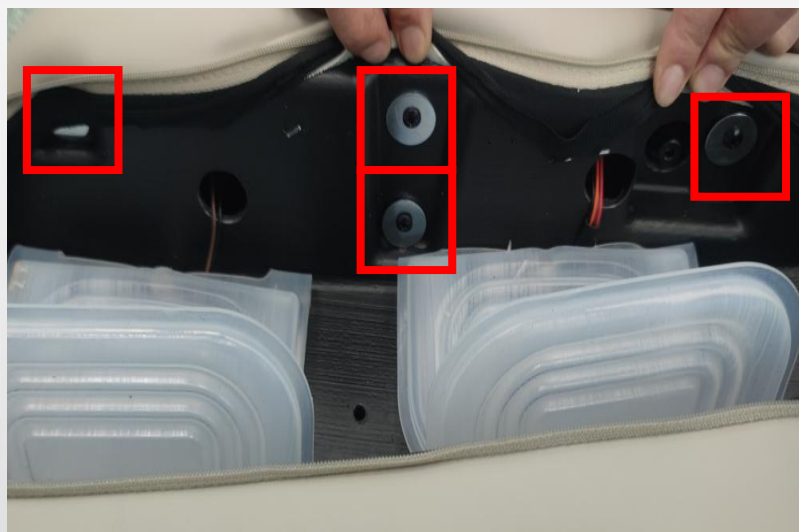
H. remove screws



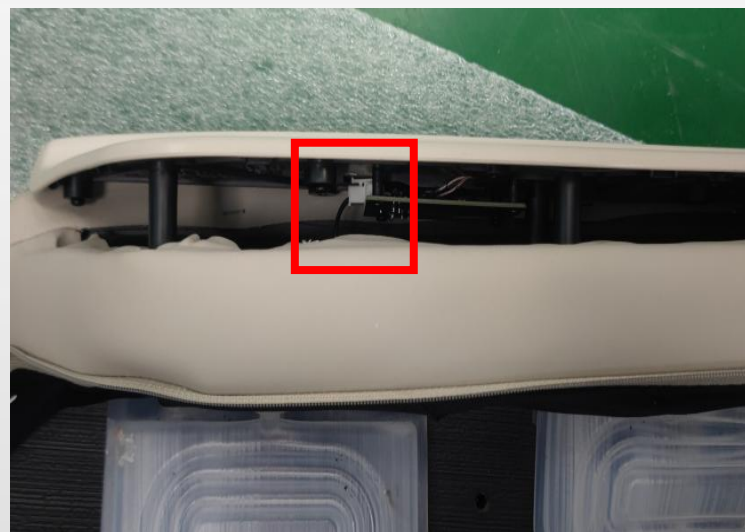
hand controller assembly



I. disconnect terminals



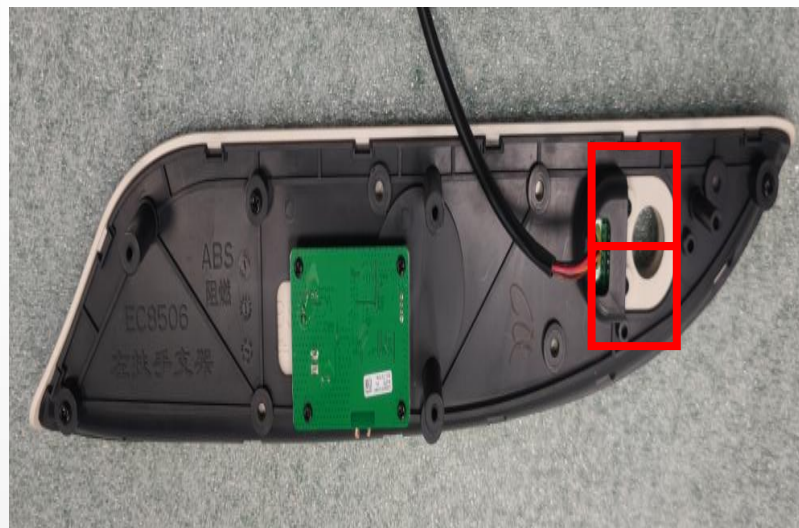
J. remove 4 screws  
8507B massage chair service guide



K. disconnect terminals



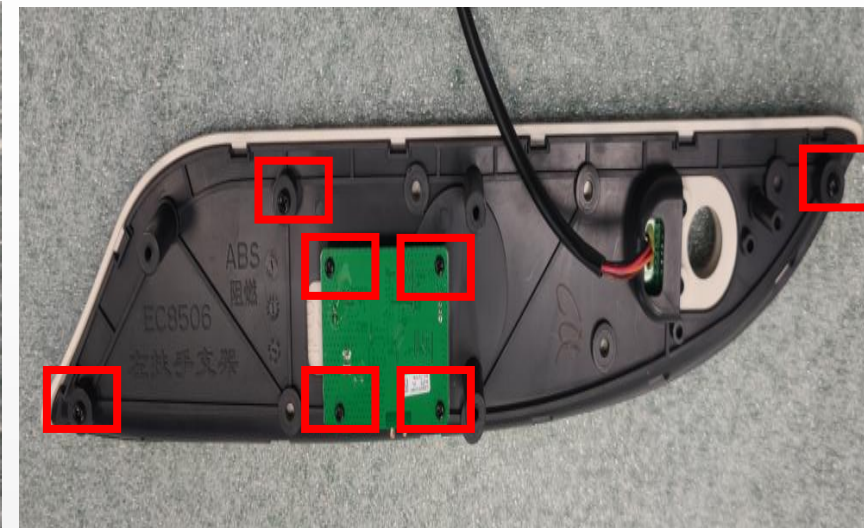
upper cover component of left armrest



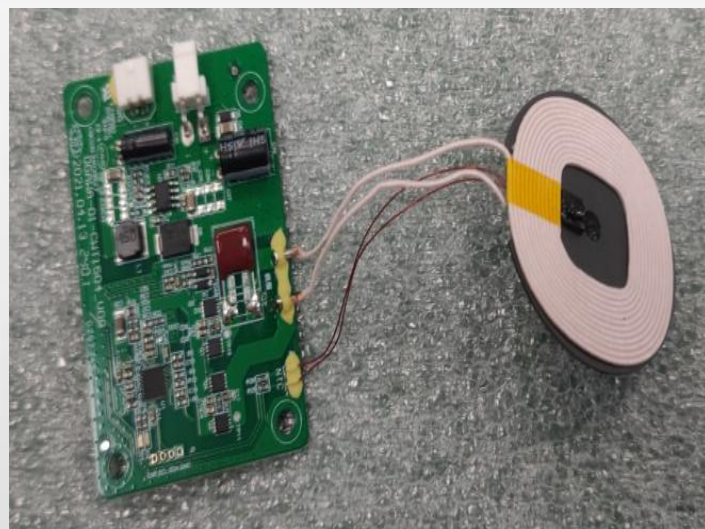
L. remove 2 screws



USB charge base



M. remove 7 screws



wireless charging



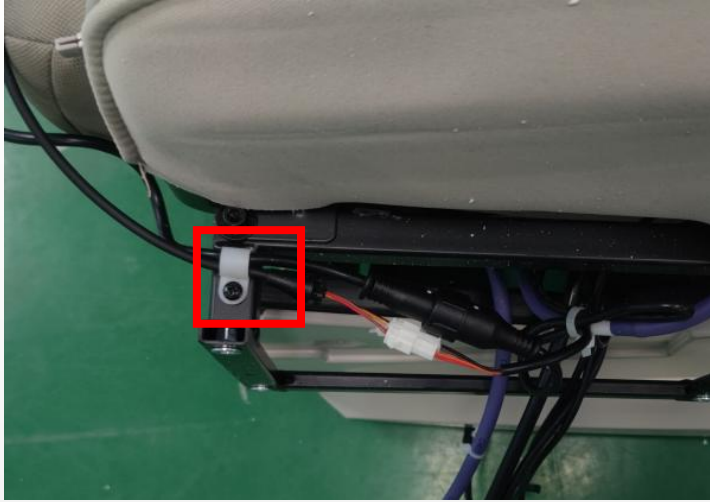
N. remove 7 screws



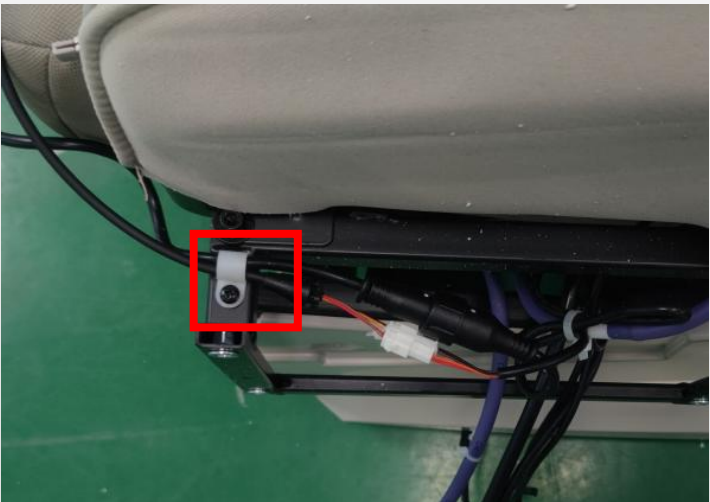
USB charge

## 7、disassembly of the pad control and pain detection:

A. remove left side panel (refer to disassembly of left side panel)



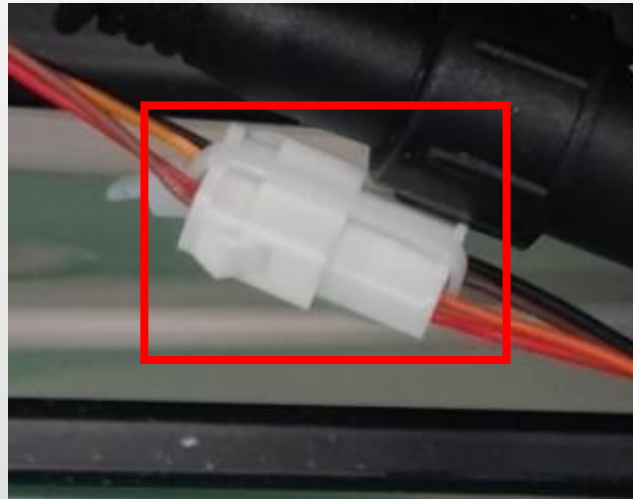
B. remove 1 screws



B. remove 1 screws



C. discontent the terminal



C. cut the cable tie



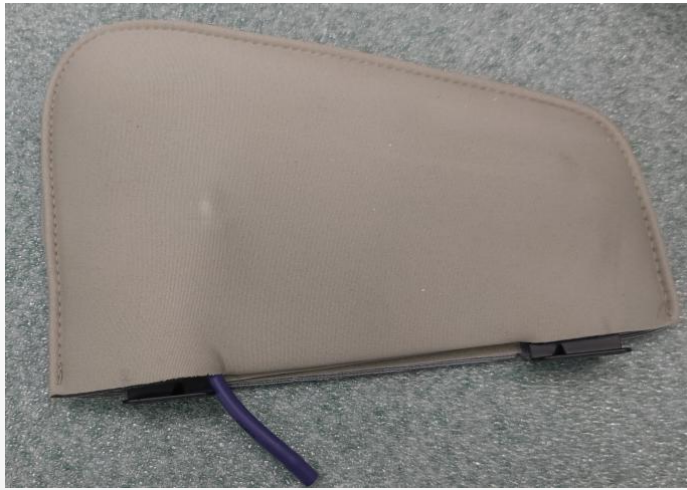
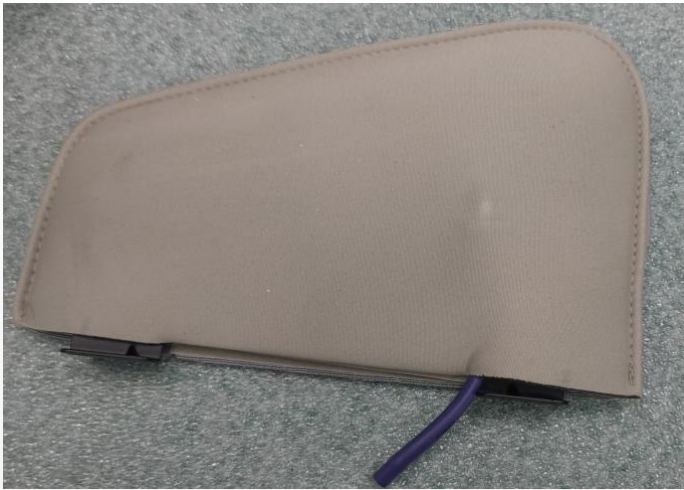
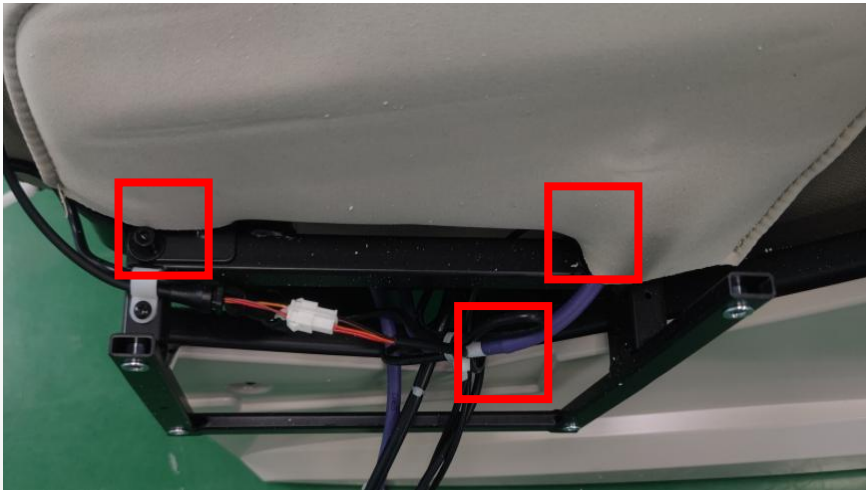
pad control



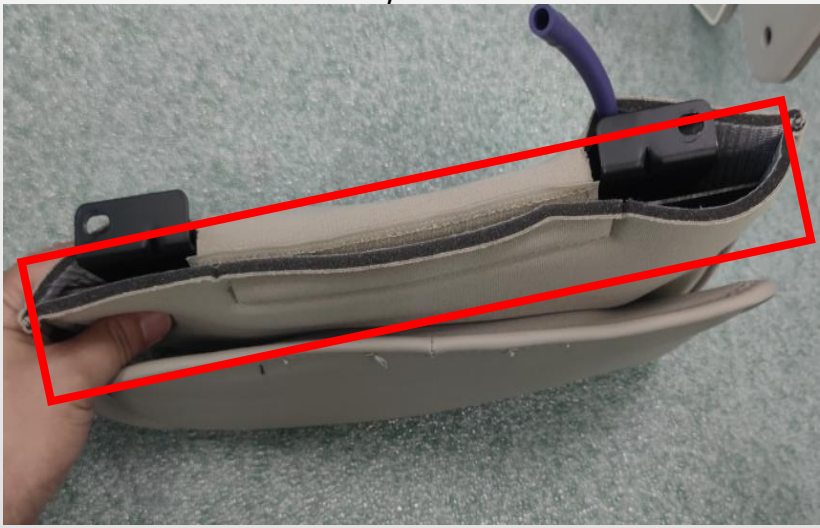
pain detection

**8、disassembly of side seat:**

A. remove left side panel and remove right side panel (refer to disassembly of left side panel)



B. remove 2 screws, discontent the air hose

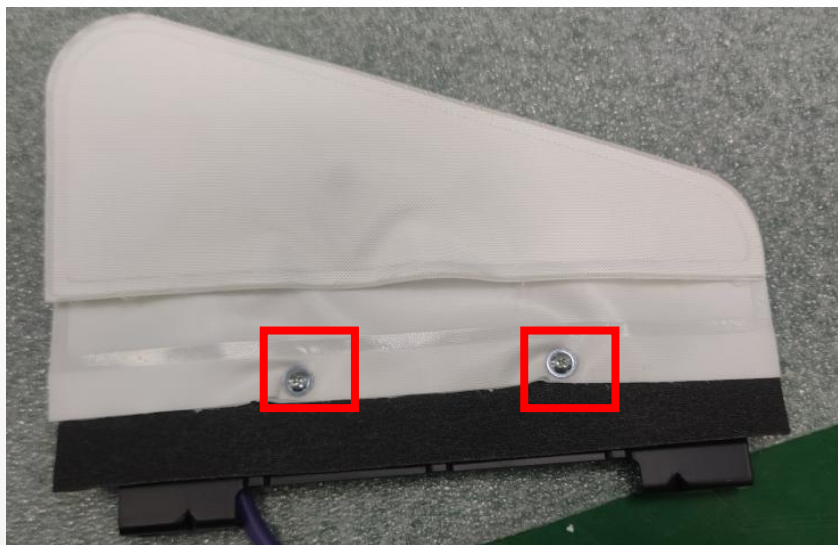


side seat unit



C. remove the cover

side seat cover



D. remove 2 screws



air bag of side seat

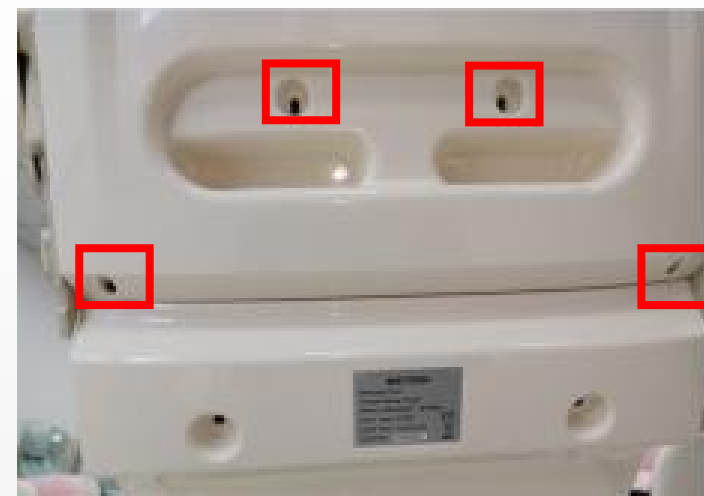
## 9、disassembly of rear cover:



A..unzip the zipper



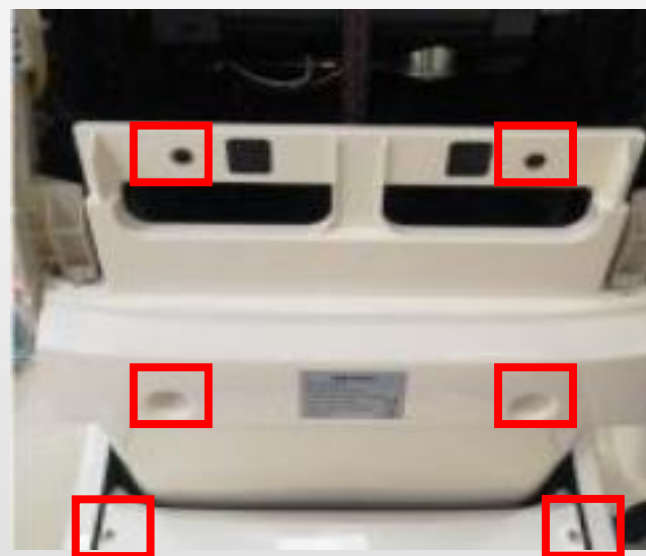
B. remove 5 screws



C. remove 4 screws



rear hood cover



D. remove 6 screws

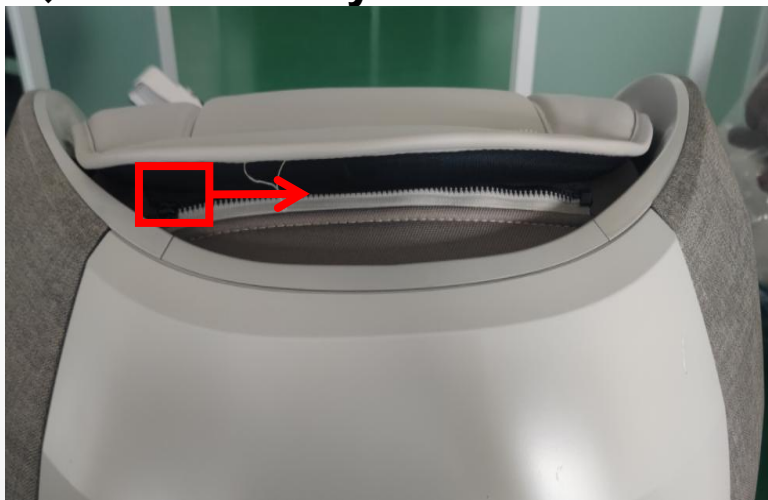


E.rear cover



F.Protective cover

## 10、disassembly of the hood:



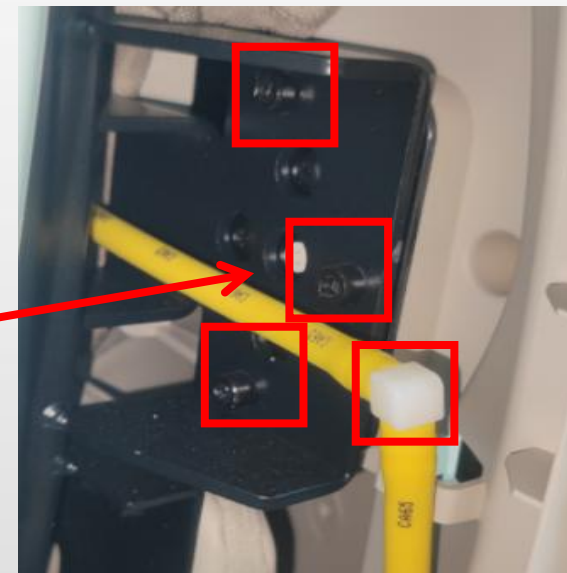
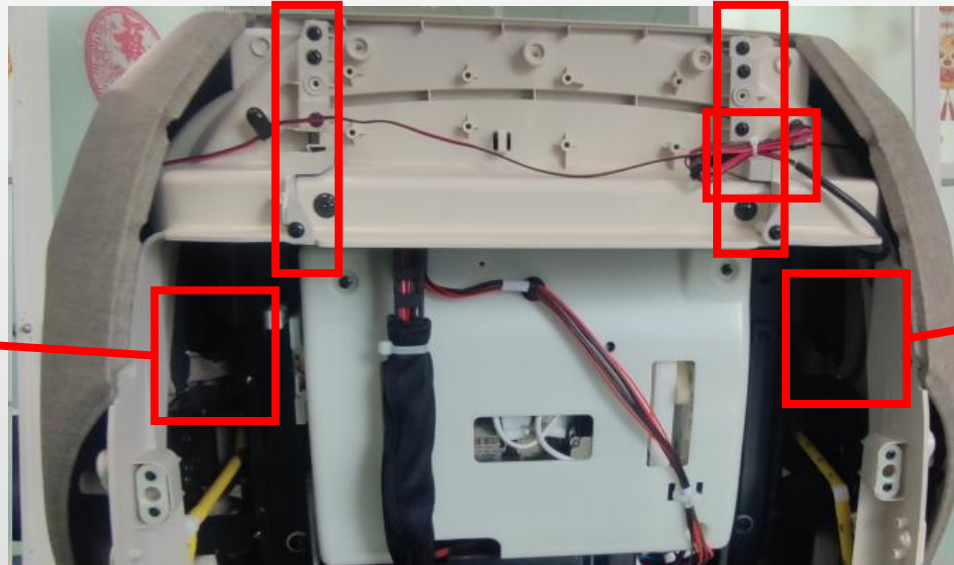
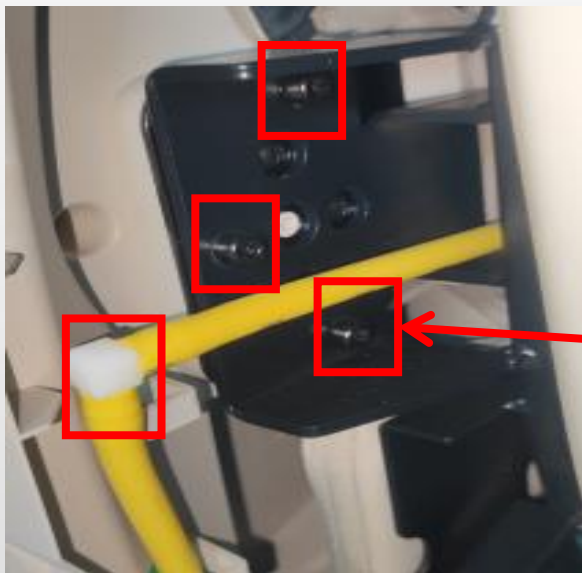
A..unzip the zipper



B. remove 5 screws



C. remove 4 screws



D. remove the screws, disconnect the terminal and air hose



left inner hood



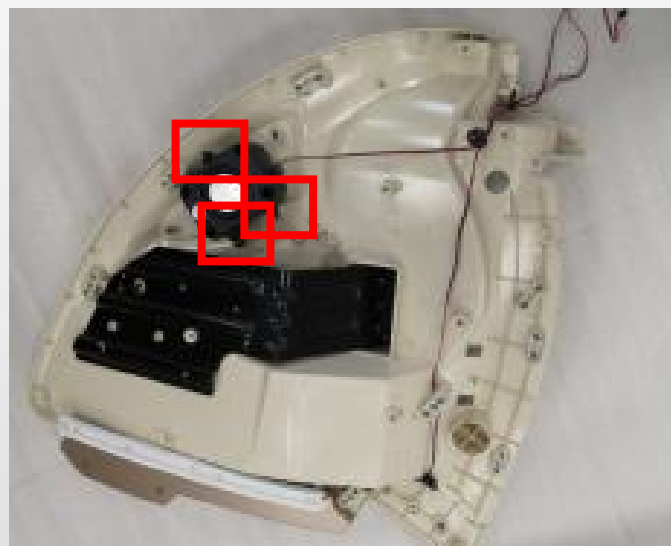
right inner hood



E.remove the screws



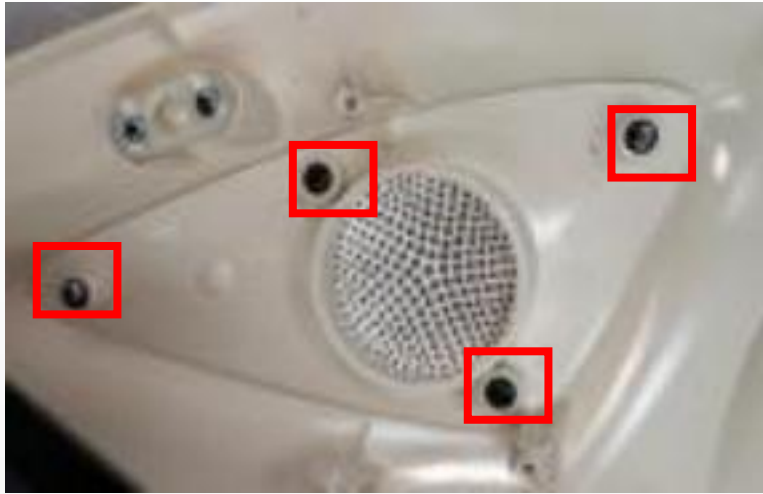
take down the hood cover



F.remove 3 screws



horn



G.remove 4 screws



speaker cover



H.remove 2 screws



inner middle hood

## 11、disassembly of the shoulder:

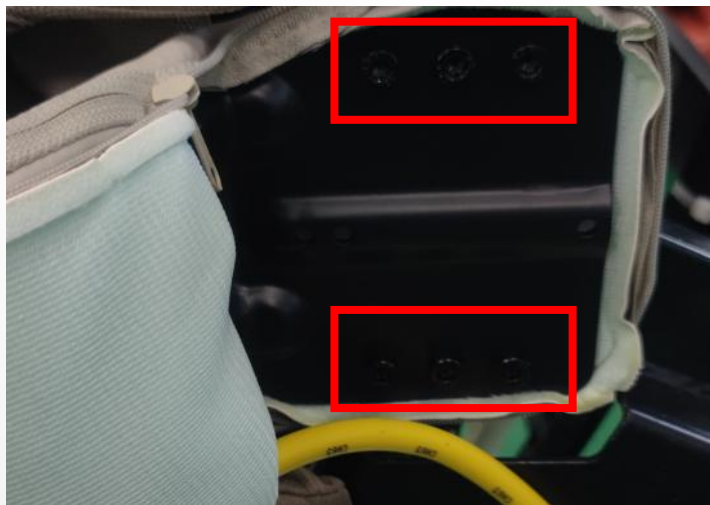
A. remove hood (refer to disassembly of the hood)



B.unzip the zipper



D.remove 6 screws



C.remove 6 screws



E.remove 6 screws



left shoulder unit



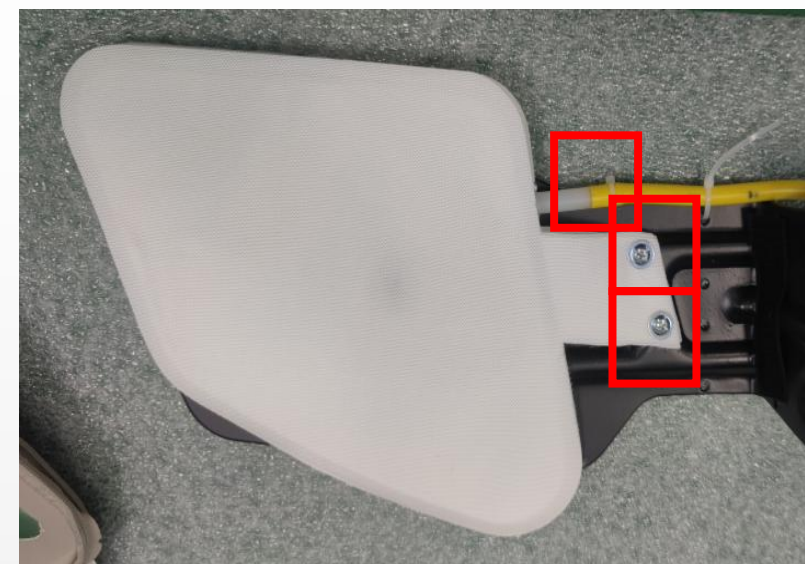
right shoulder unit



F.unzip the zipper



shoulder leather cover



G.remove 4 screws,disconnect the air hose



A..unzip the zipper



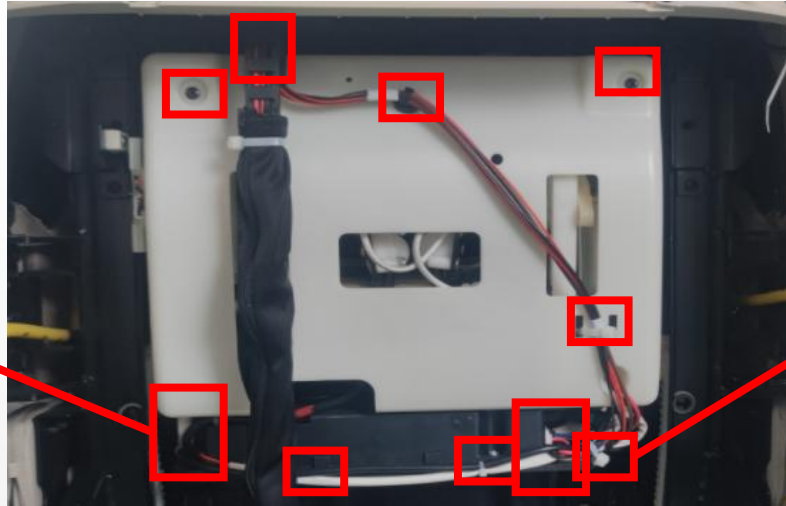
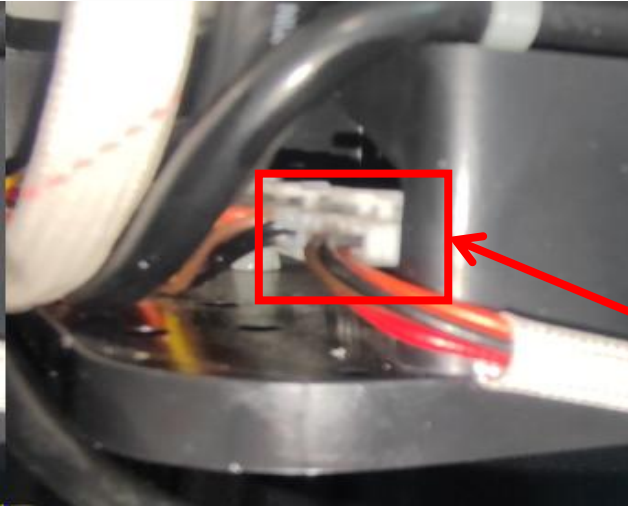
B. remove 5 screws



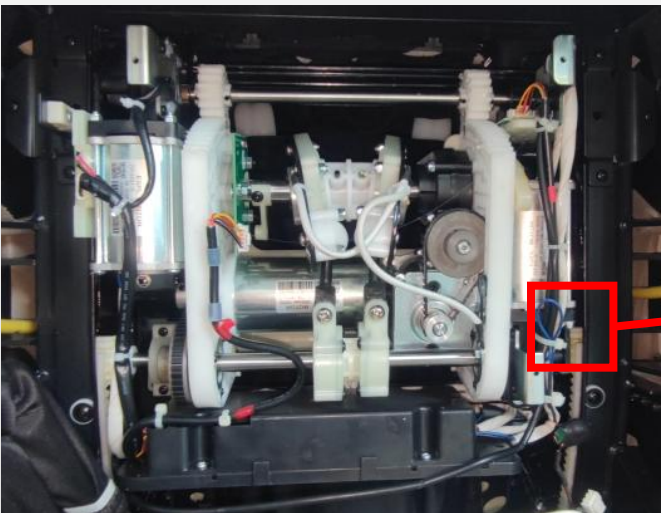
C. remove 4 screws

### 13、disassembly of the backrest cable:

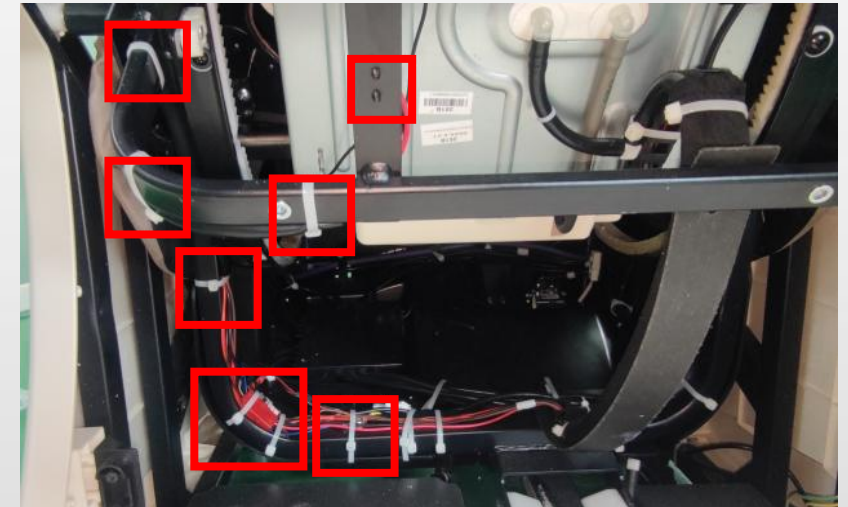
A. remove the rear cover (refer to disassembly of the rear cover)



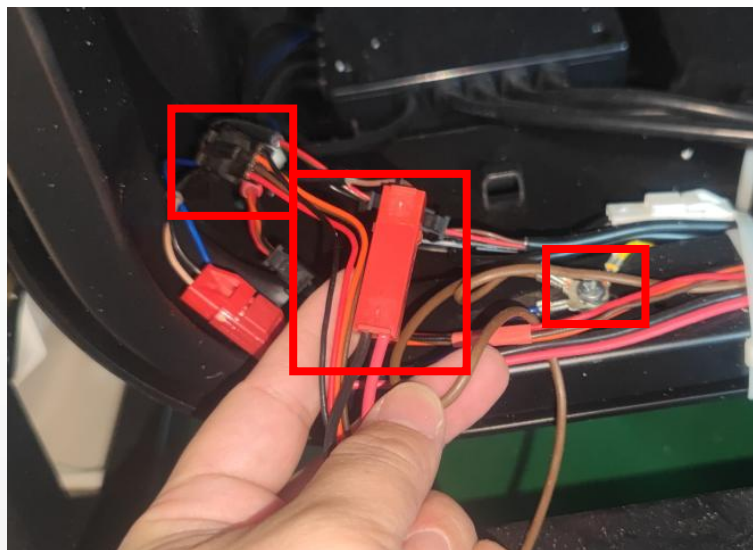
B.remove the screws, cut cable tie



C.remove the screws



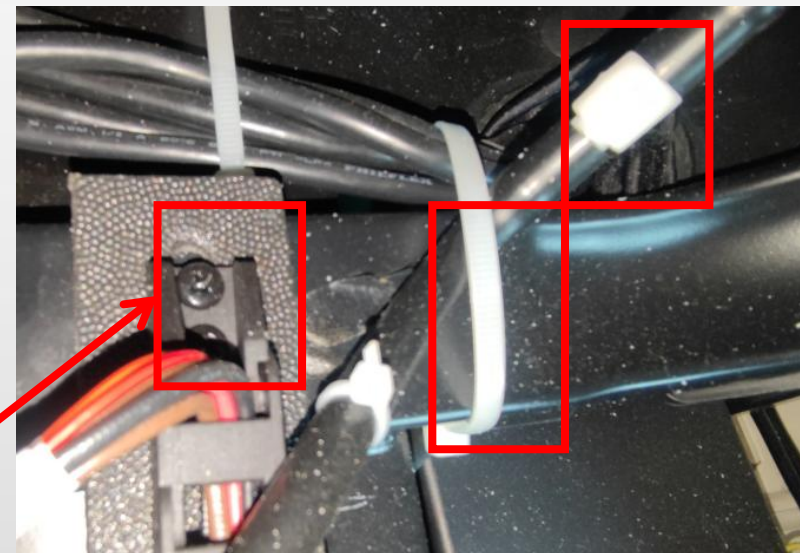
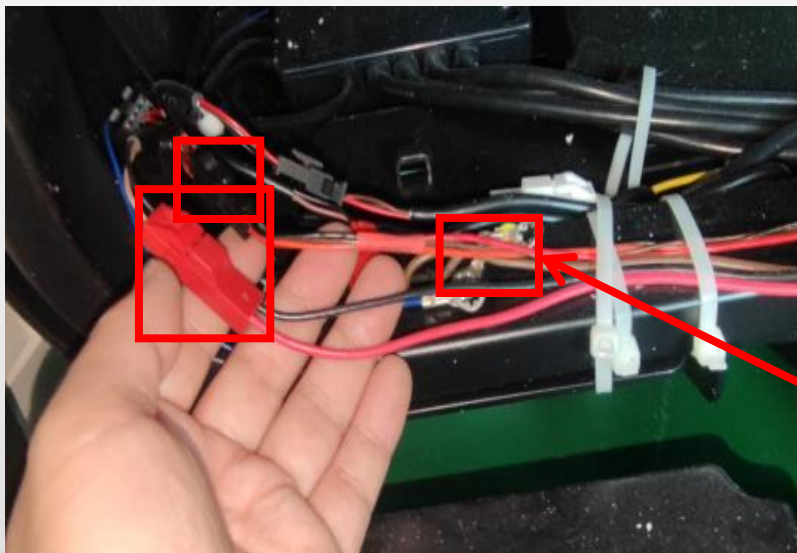
D.remove the screws, cut cable tie



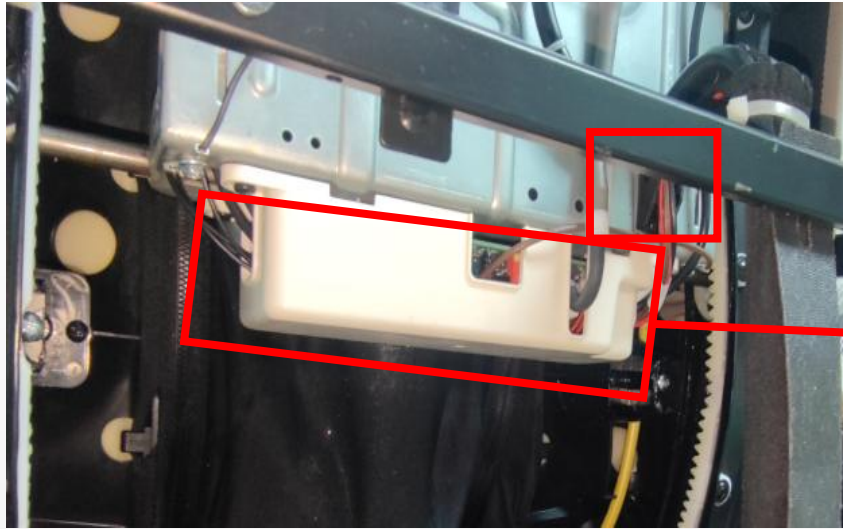
E.disconnect the terminals, remove the 1 screw



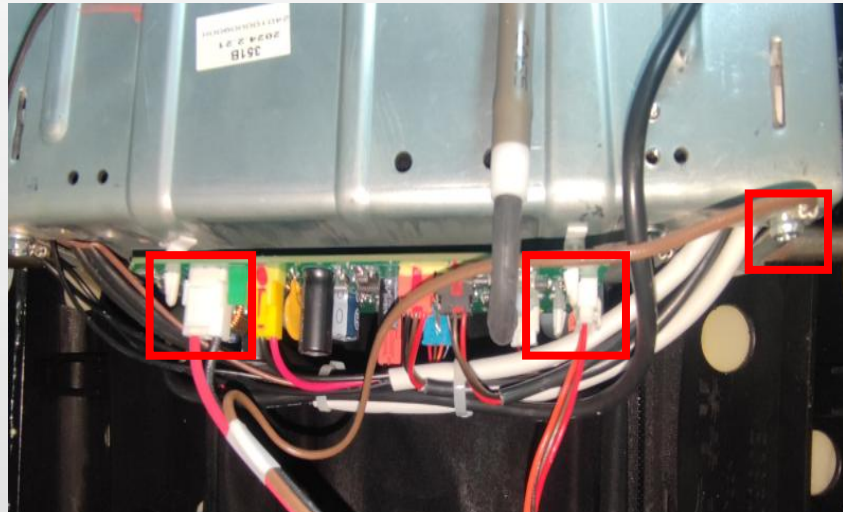
upper backrest cable



F.disconnect the terminals, remove the screw, cut cable tie, disconnect the air hose



G.remove the screw



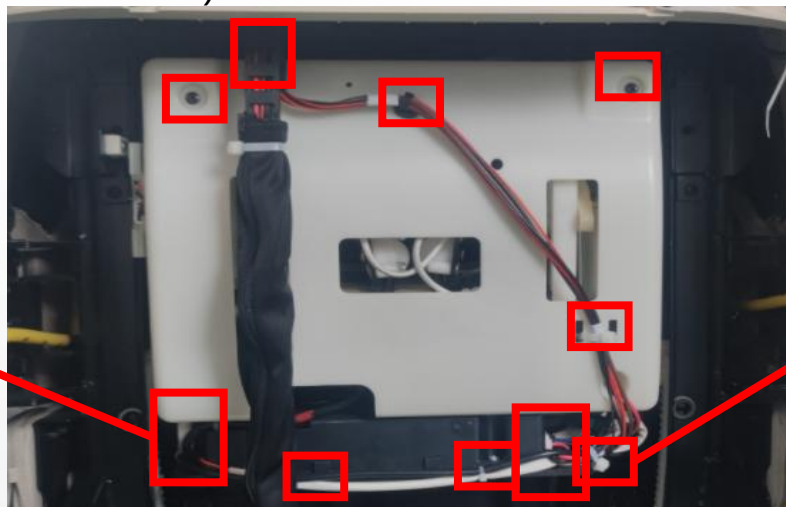
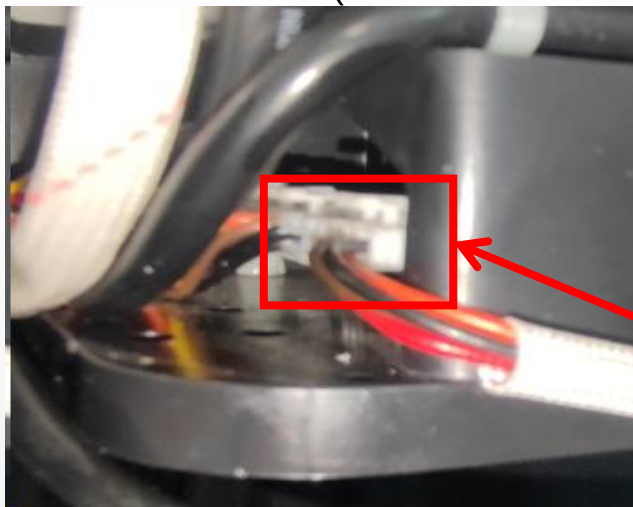
H.discontent the terminals, remove the 1 screw



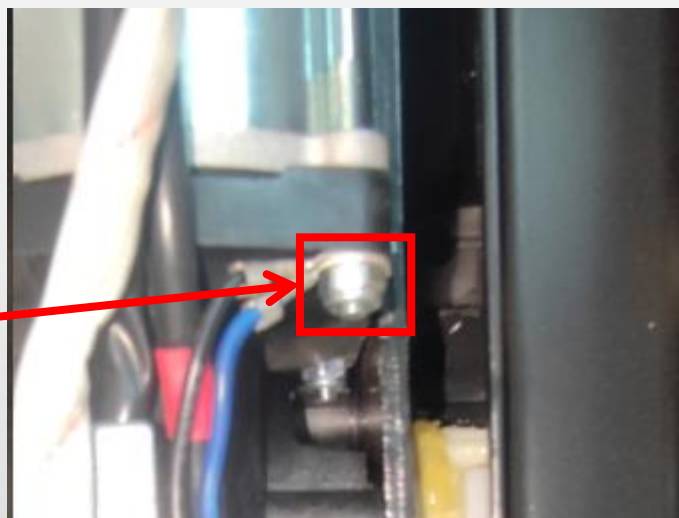
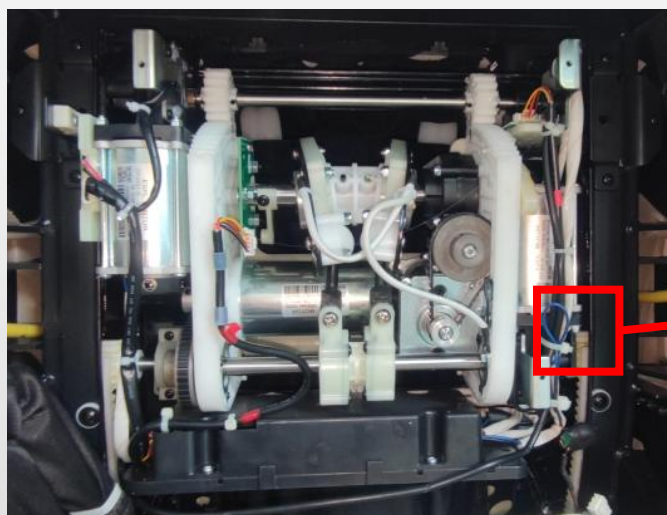
under backrest cable

## 14、disassembly of the Gearbox:

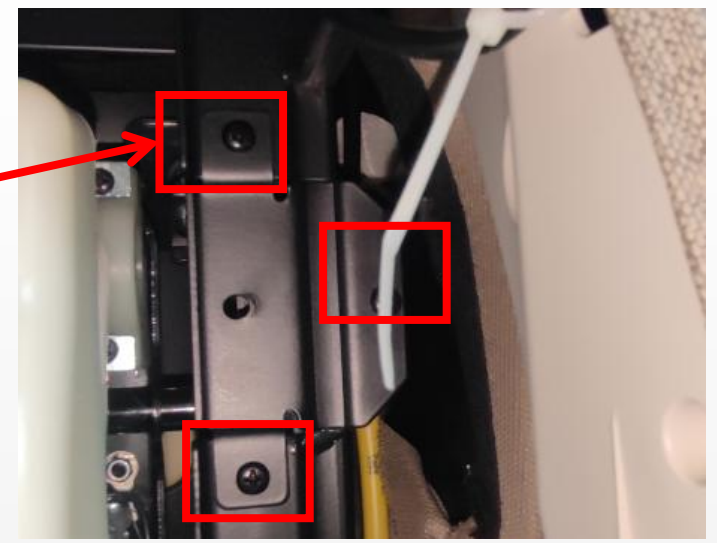
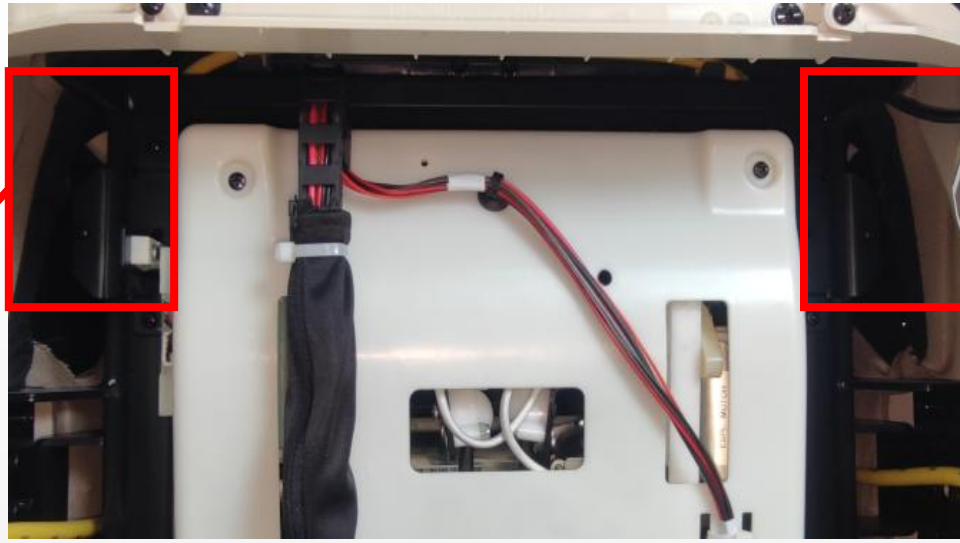
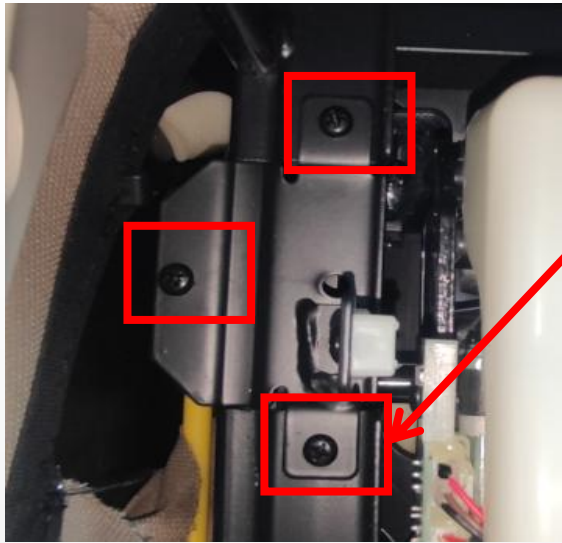
A. remove the rear cover (refer to disassembly of the rear cover)



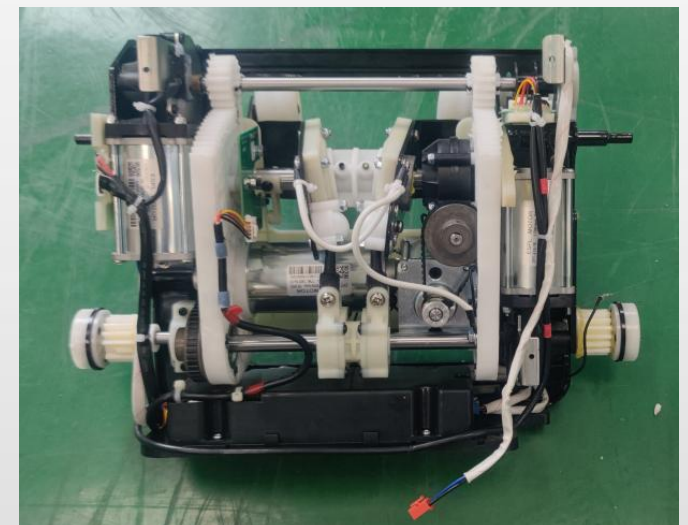
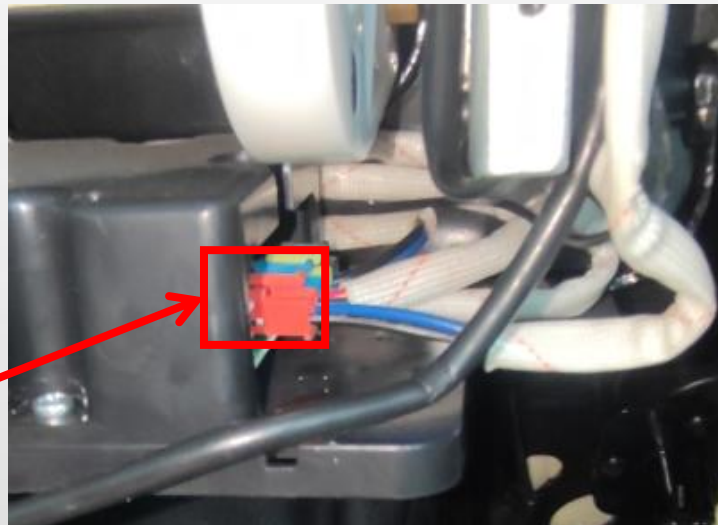
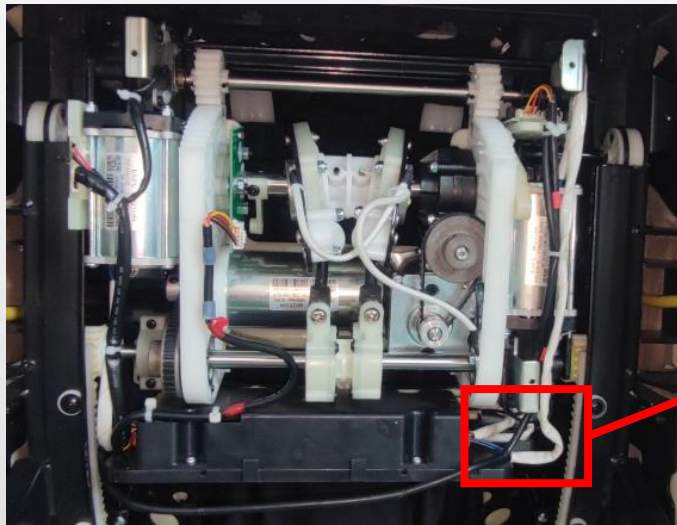
B.remove the screws, cut cable tie



C.remove the screws

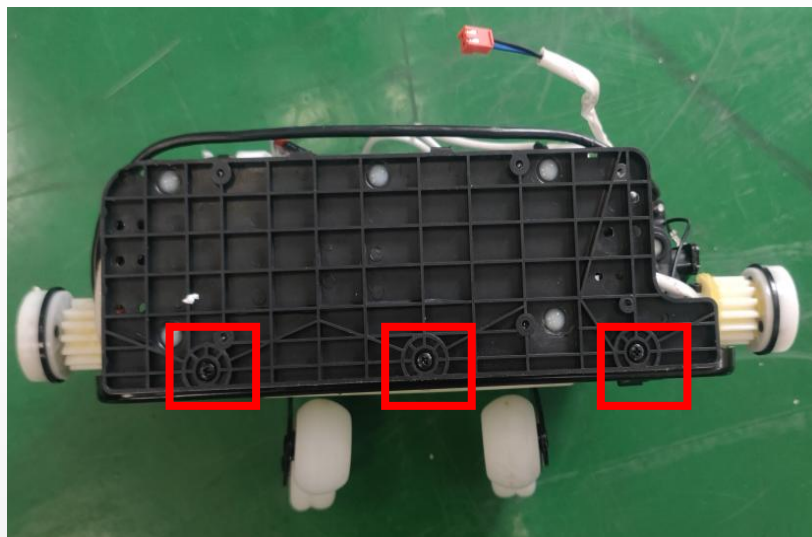


D.Remove the baffle both side

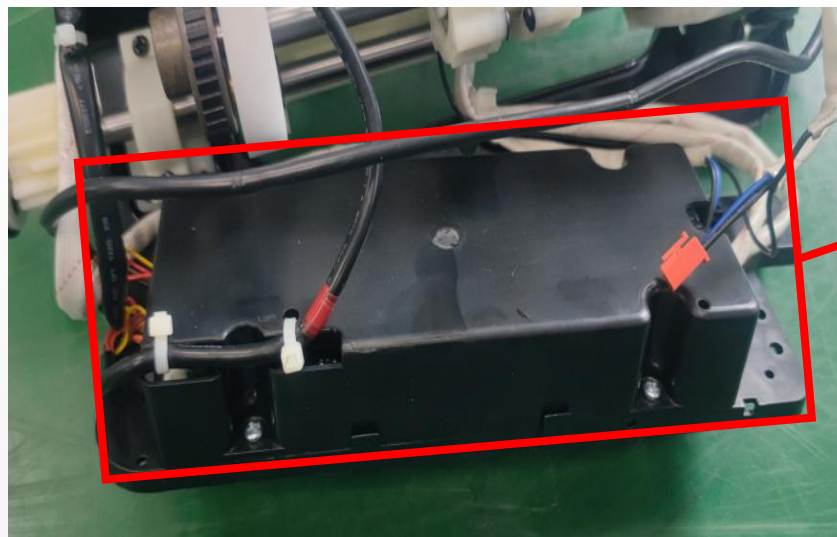


upper Gearbox

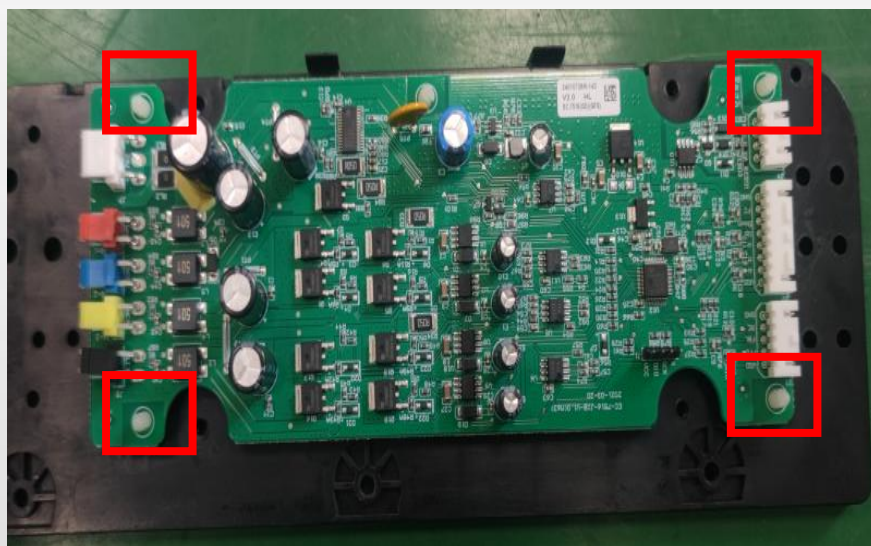
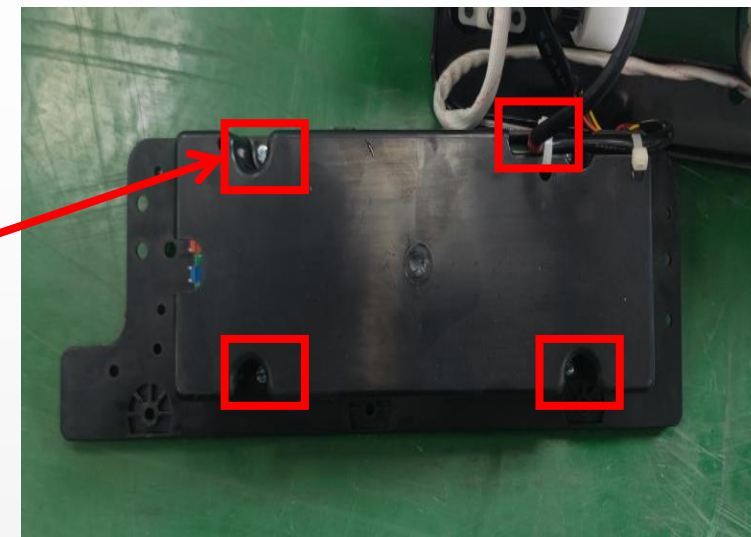
E.connect red terminal with a 24V power, mechanism go up



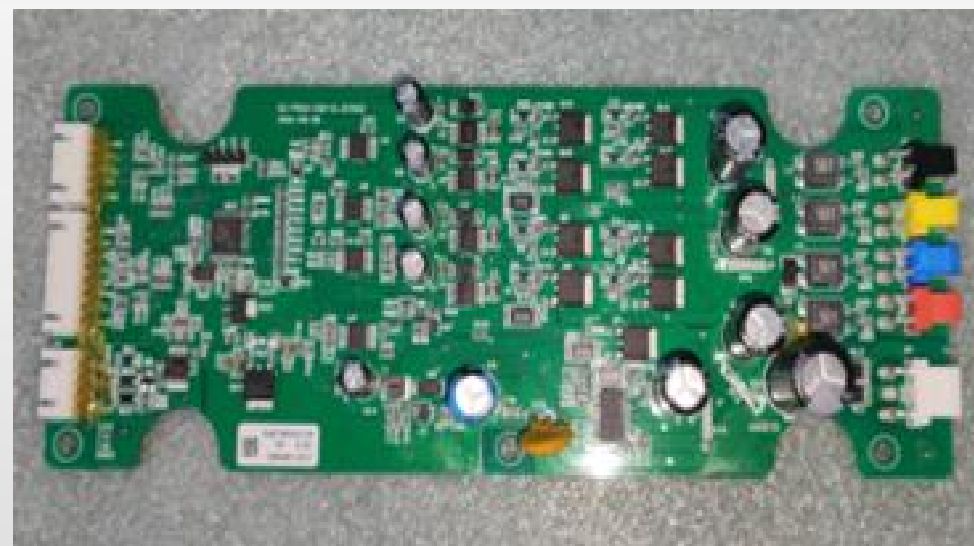
F.remove the 3 screw



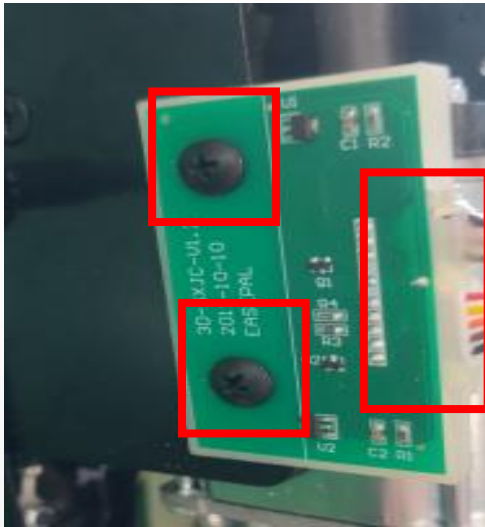
G.discontent the terminals,remove the 4 screw



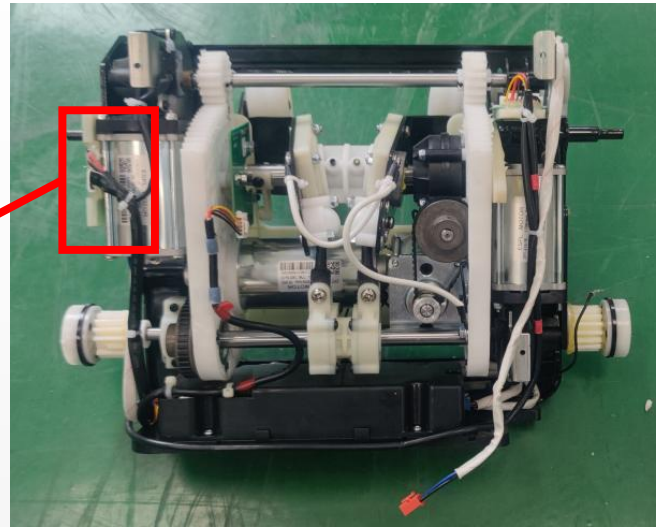
H.remove the rack



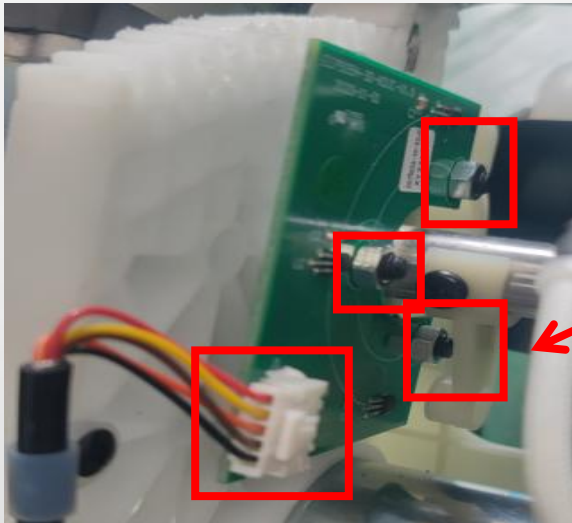
upper Gearbox PCB



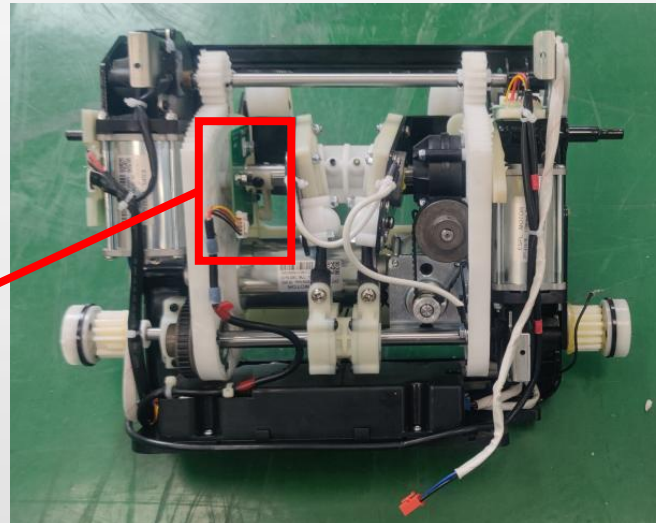
I. discontent the terminals,remove the 2 screw

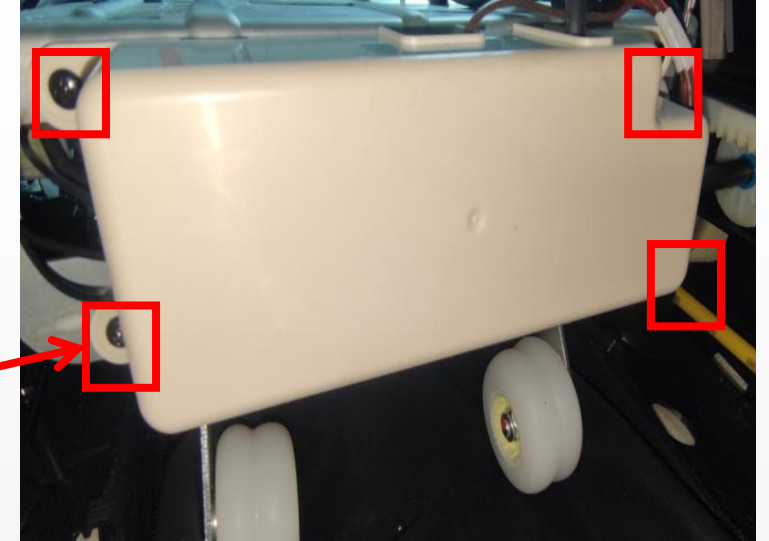
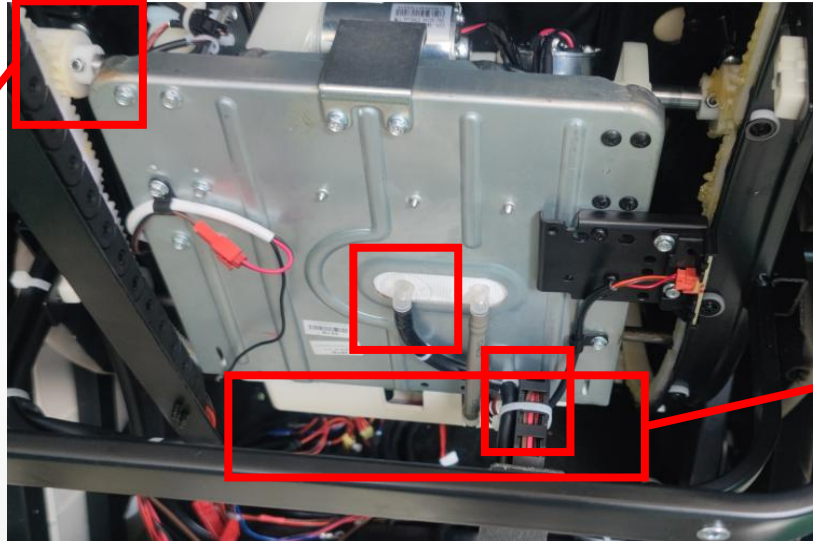
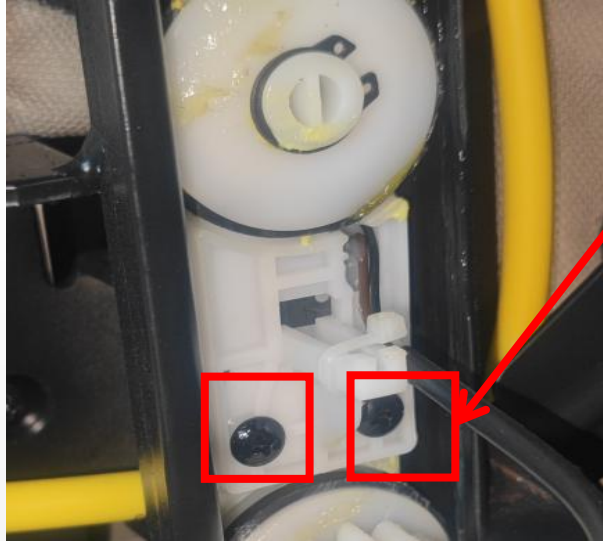


up and down detection PCB

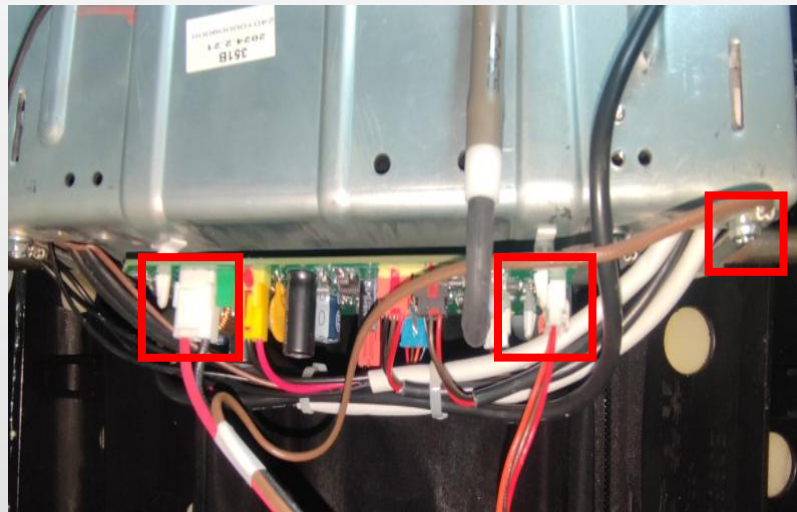


J. discontent the terminals,remove the 3 screw

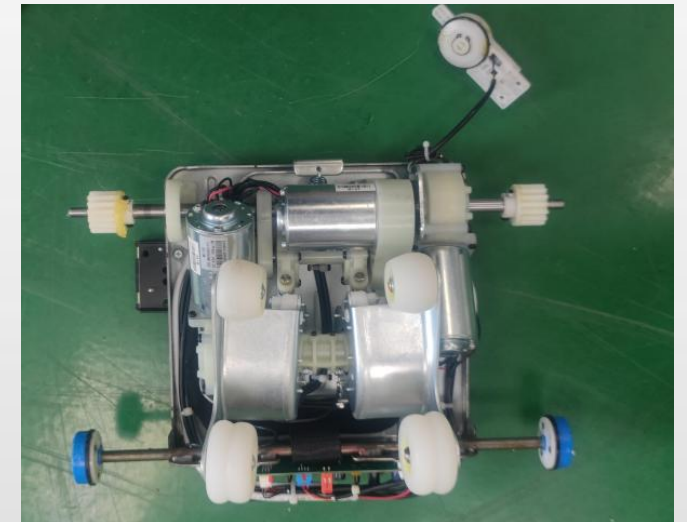




K.remove the screw,disconnect the air hose

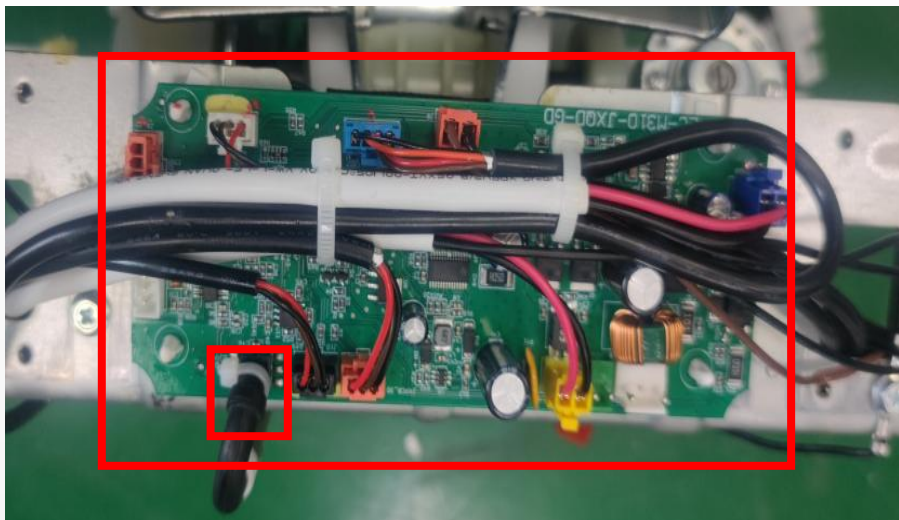


M.connect red terminal with a 24V power,  
mechanism go up

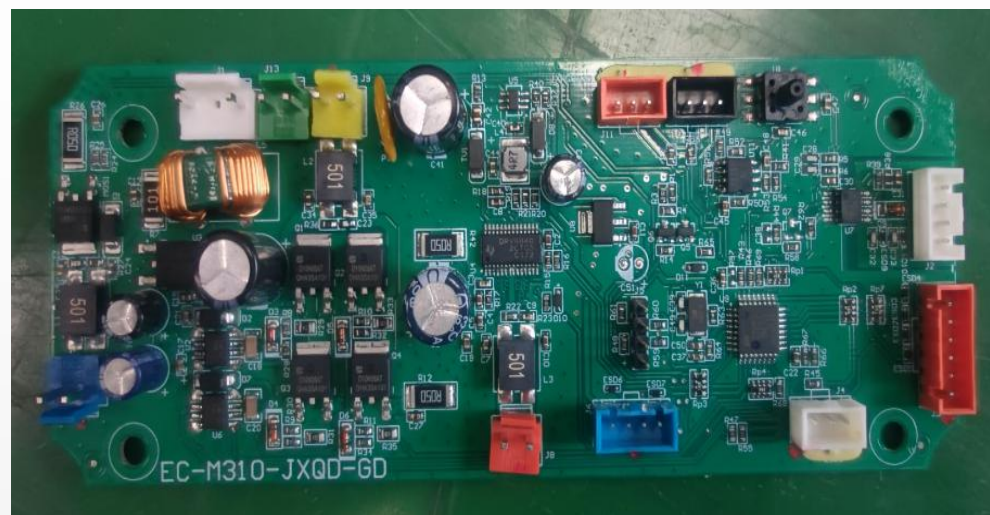


under Gearbox

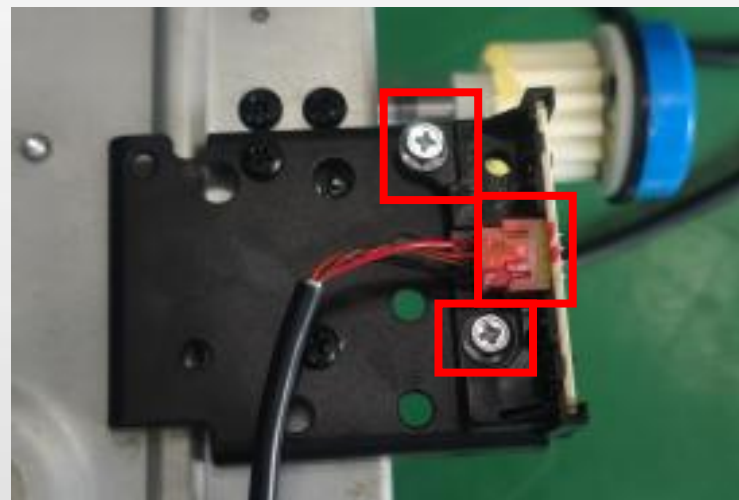
L.disconnect the terminals, remove the 1 screw  
8507B massage chair service guide



N.disconnect the, disconnect the air hose,remove the rack



under Gearbox PCB



up and down detection PCB

O.disconnect the terminals,remove the 2 screw

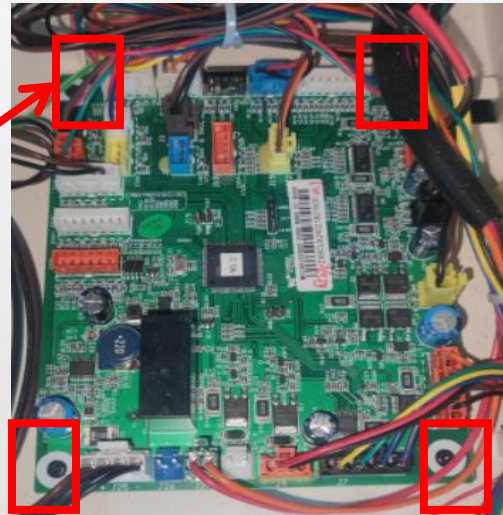
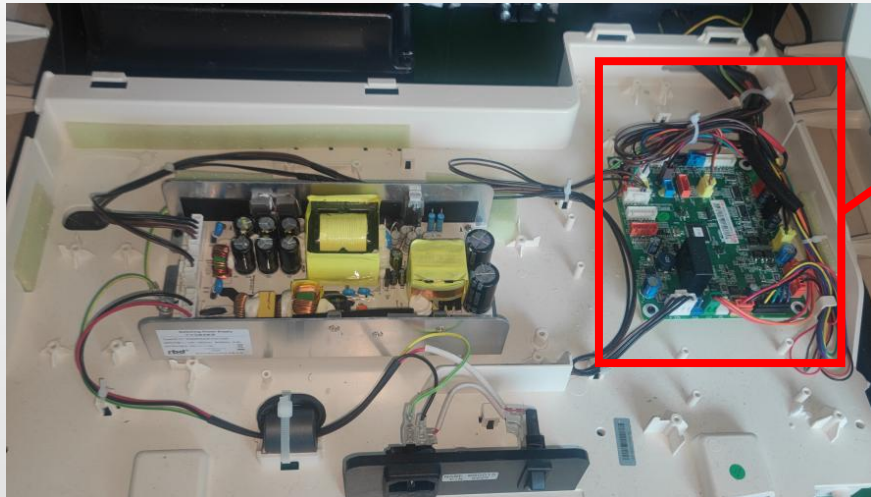
## 15、disassembly of the main PCB box:



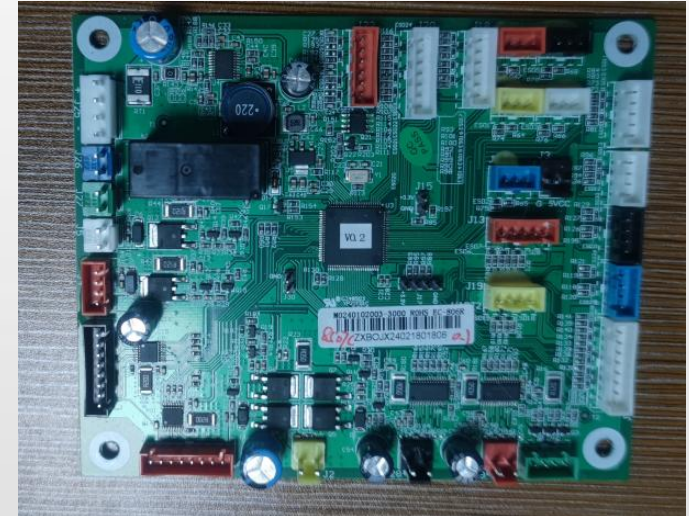
A.remove 3 screws, open the main PCB box



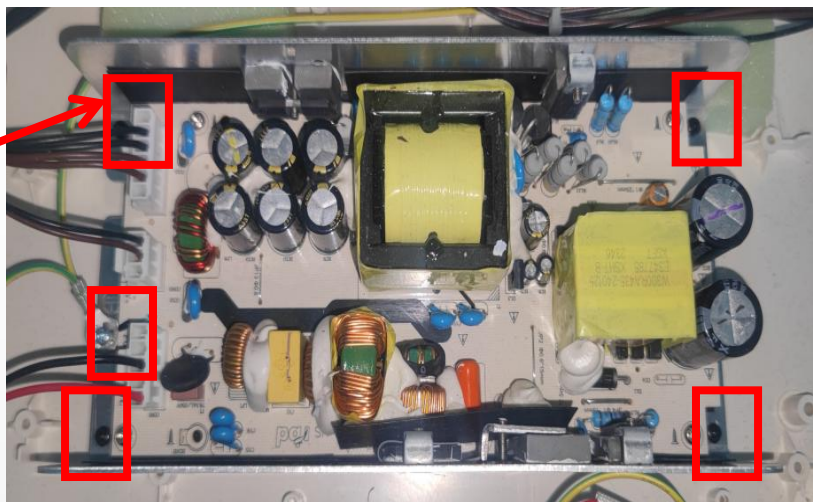
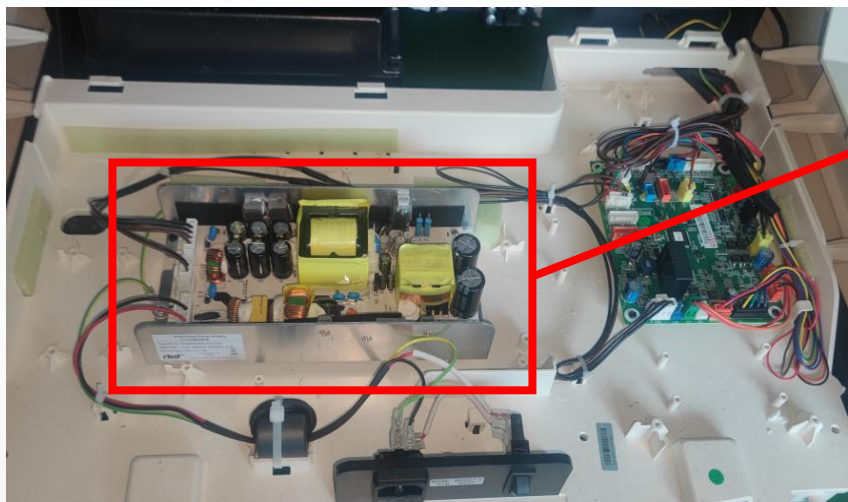
main PCB box cover



B.disconnect the terminals, remove 4 screws



main PCB

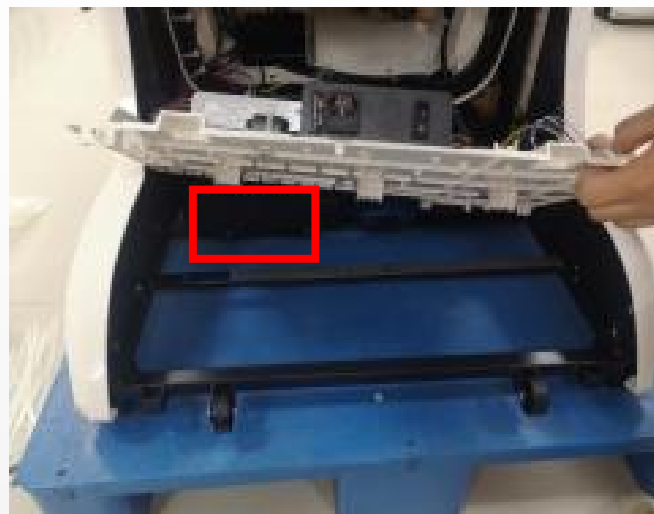


B.disconnect the terminals, remove 5 screws

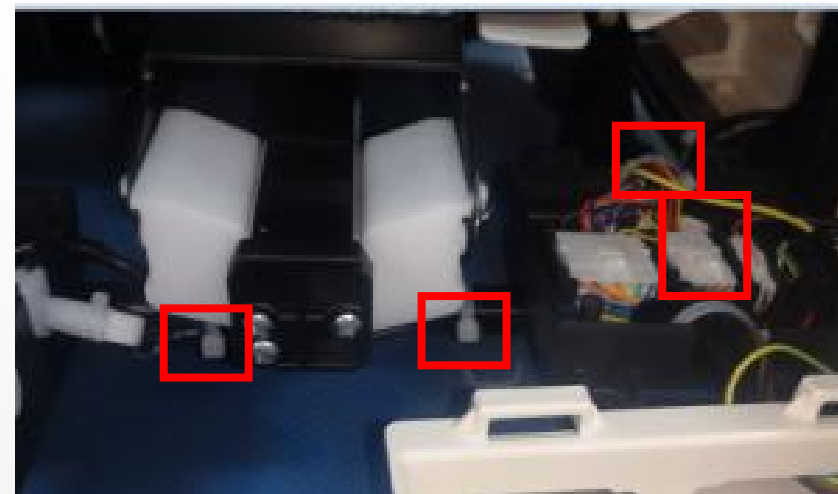
## 16、disassembly of air pump:



A.remove 3 screws, open themain PCB box



B.remove 2 screws



C.cut cable tie, disconnect the terminal



D.remove 4 screws



E.remove 4 screws



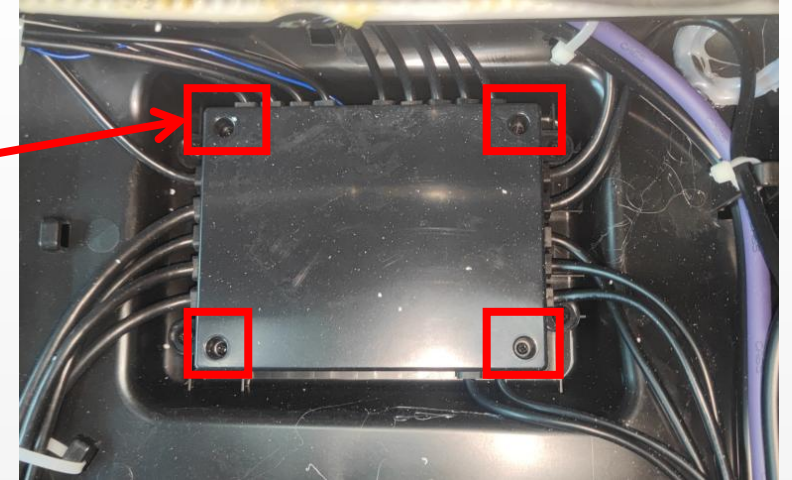
air pump

## 17、disassembly of the underseat PCB and air valve:

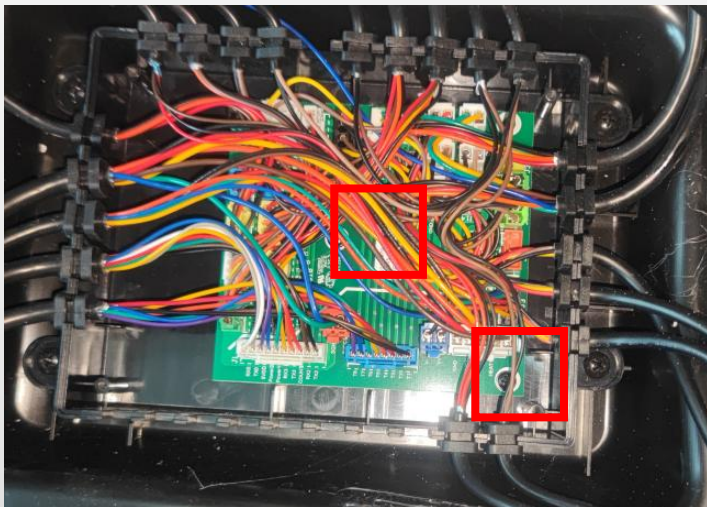
A. remove the backrest pad (refer to disassembly of the backrest pad)



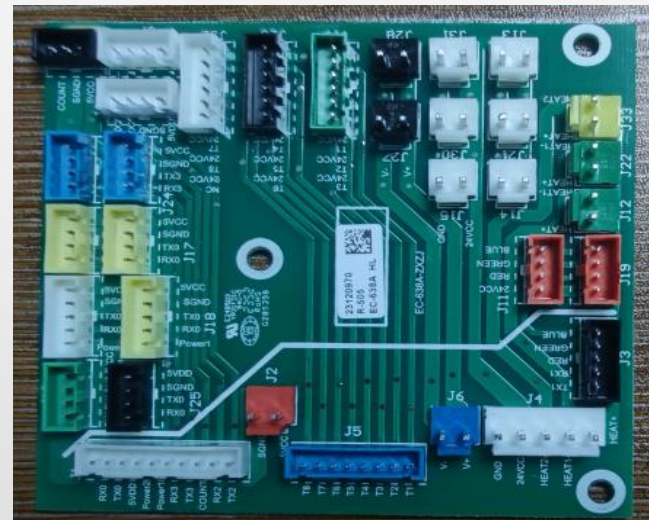
B.unzip the zipper



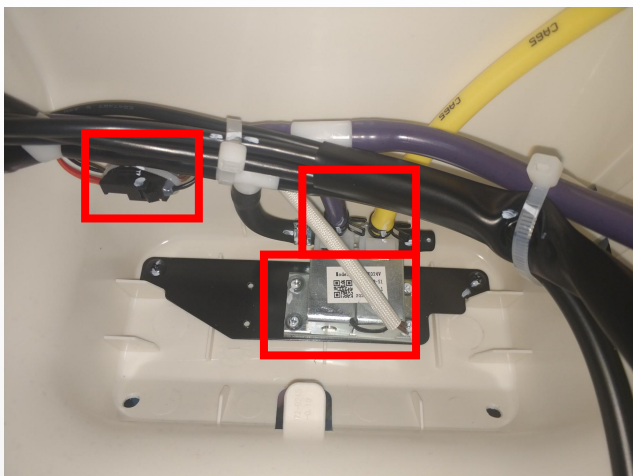
C.remove 4 screws



D.discontent the terminals



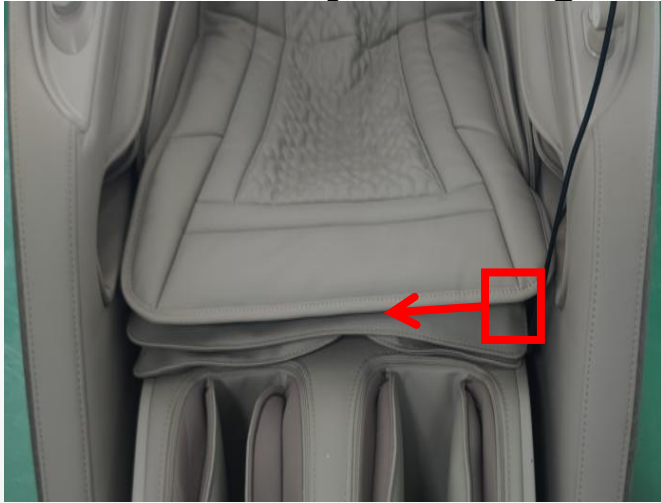
underseat PCB



E.cut the cable tie, discontent the terminals,  
remov 4 screws

air valve

## 17、disassembly of the legrest:



A.unzip the zipper



B.unzip the zipper



C.Remove the blocking on both sides of the legrest



D.disconnect the terminal and air hose

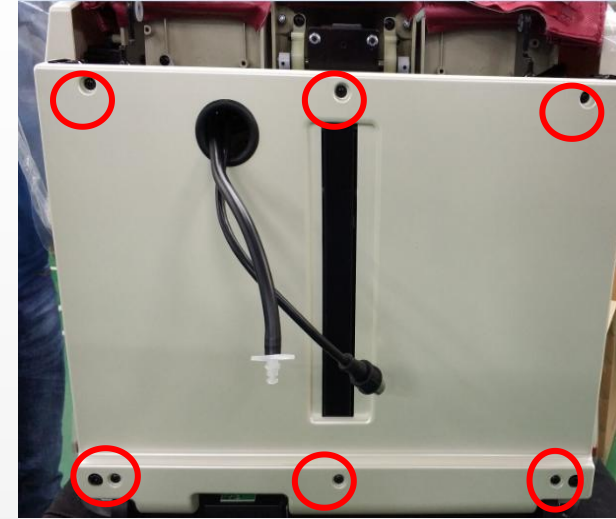
## 18、decomposition of the upper legrest:



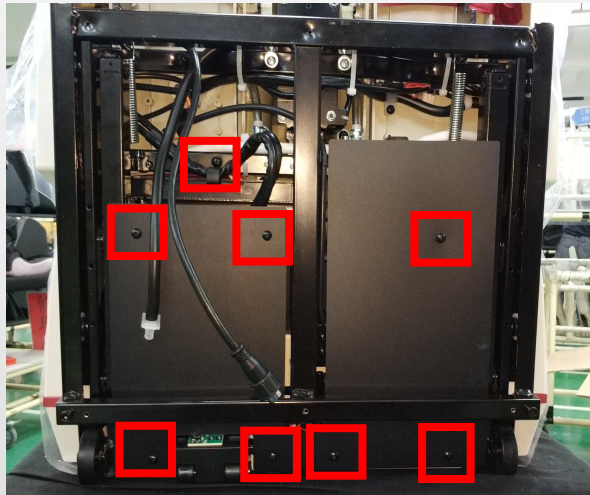
A.Bring your calves up to this position



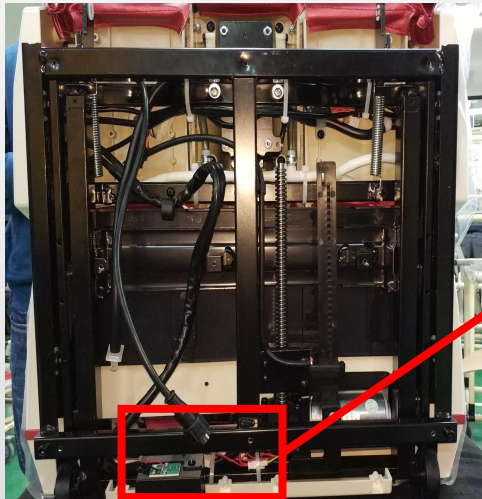
B.unzip the zipper



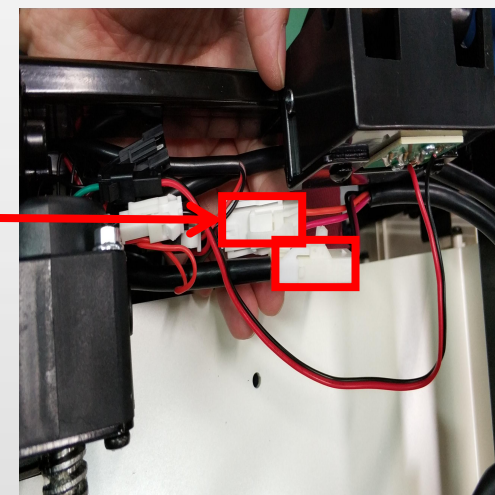
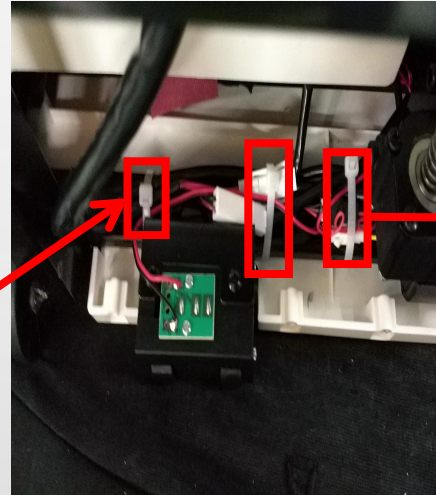
C.remove 6 screws

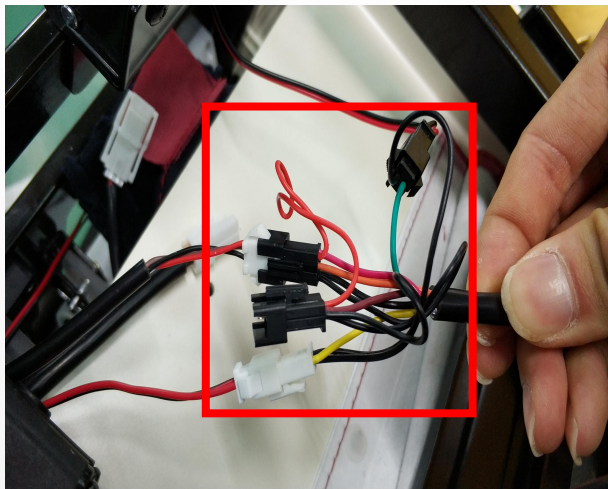


D.remove 8 screws

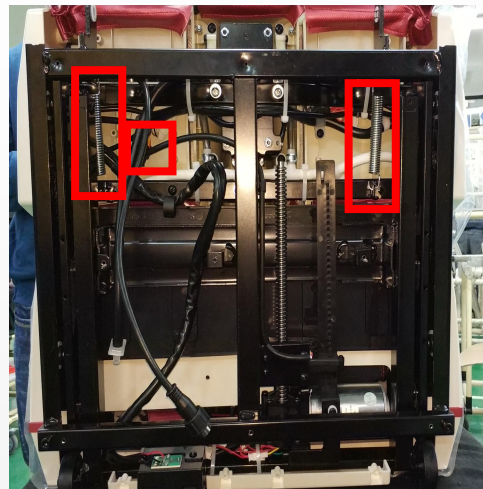


E.Cut off button

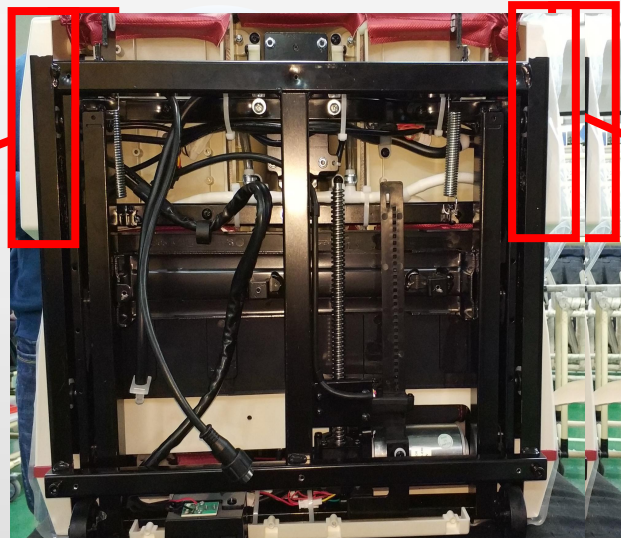
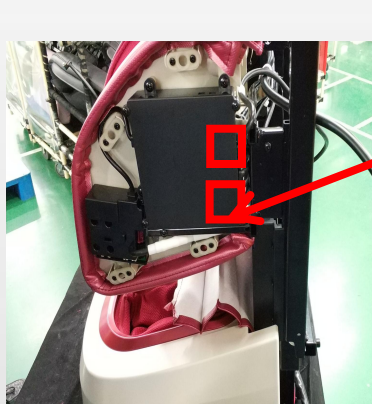
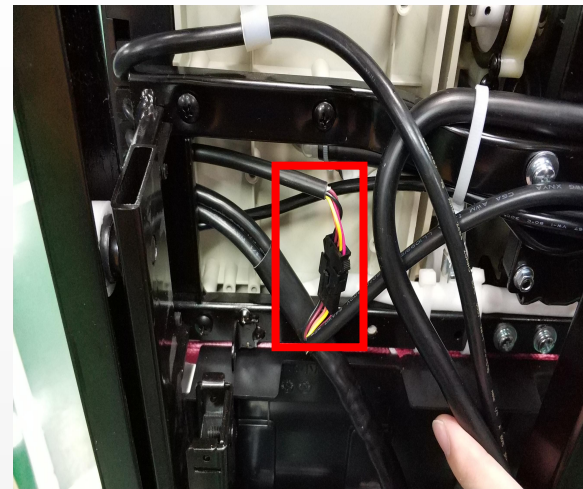




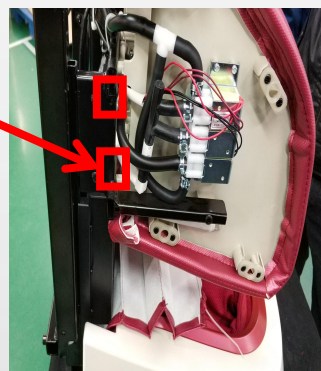
F.disconnect the terminals

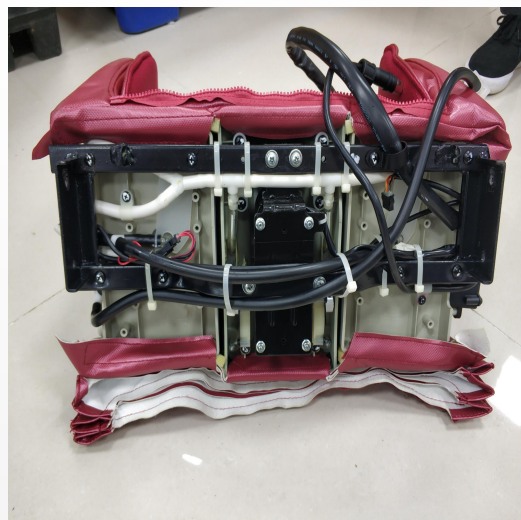


G.Remove the spring and discontent the terminals

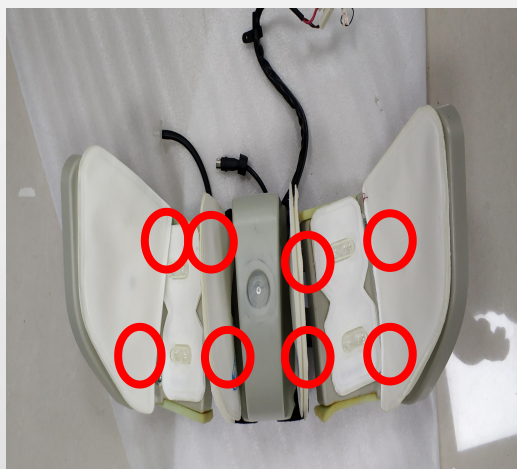


H.remove 4 screws

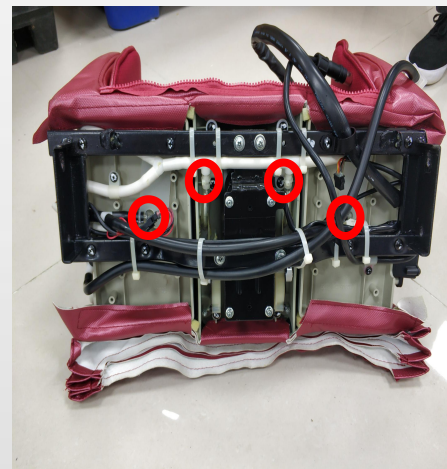




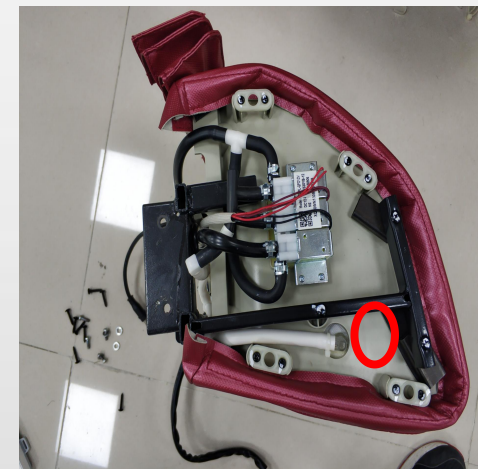
I. stick the Sticky, upper calf leather case can be replaced



J. remove 8 screws



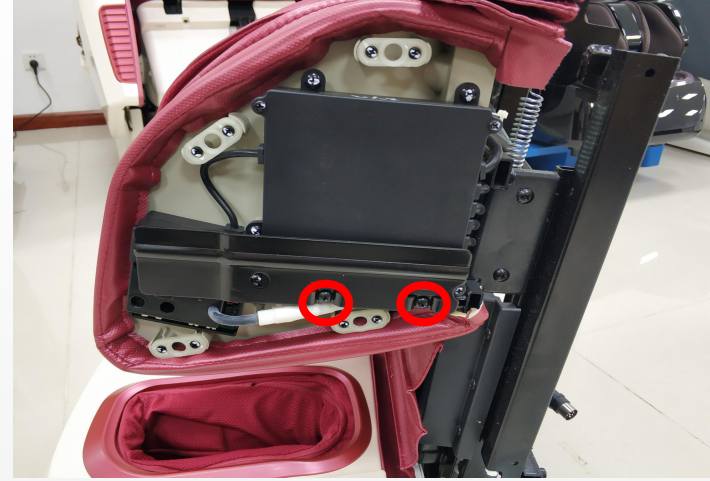
K. Pull out all the air pipes, All air bags can be replaced



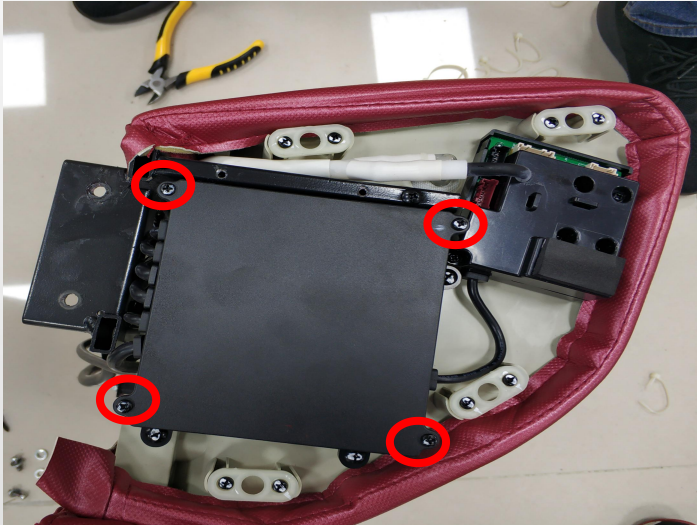
## 19、decomposition of the legrest PCB



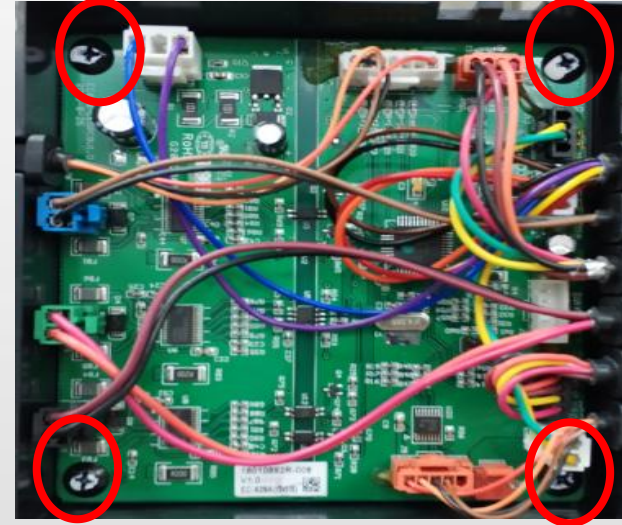
A. Open the cover



B. remove 2 screws



C. remove 4 screws



D. remove 4 screws, Unplug all terminals,  
decomposition of the legrest PCB

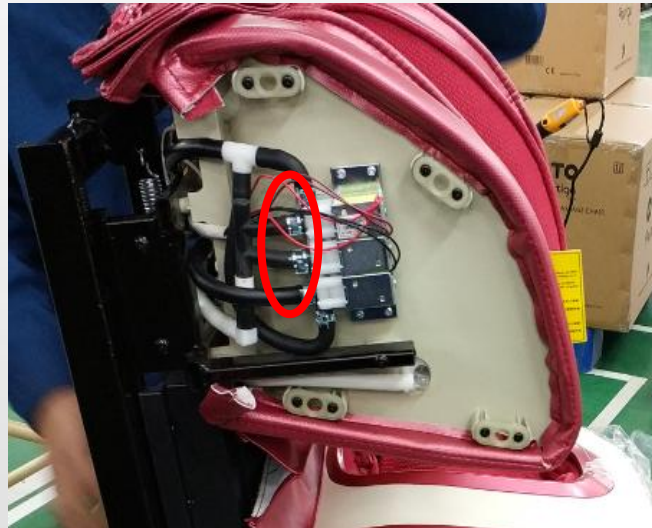
## 20、decomposition of the legrest Air valve



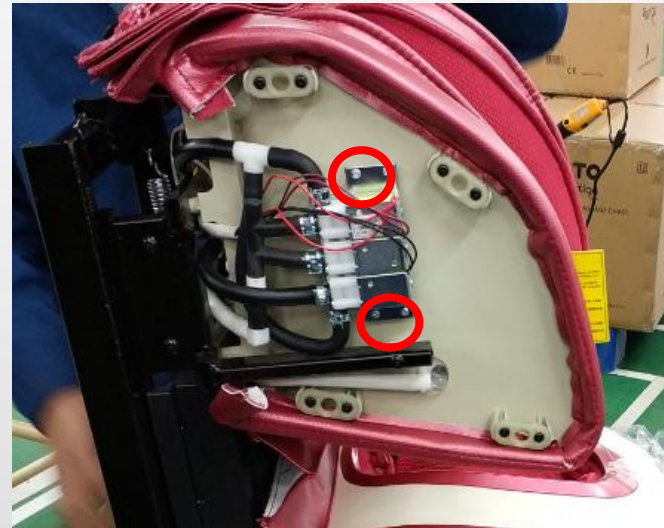
A.Open the cover



B.Cut off button,Unplug all terminals



C.Pull out all the air pipes



D.remove 4 screws

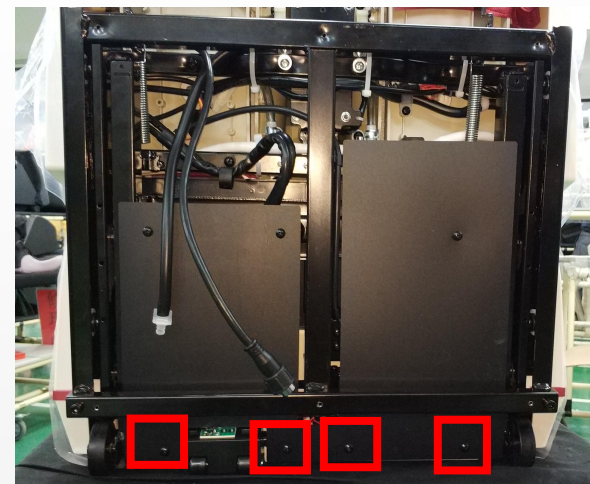
## 21、decomposition of the kneading motor unit of leg rest



A. Bring your calves up to this position



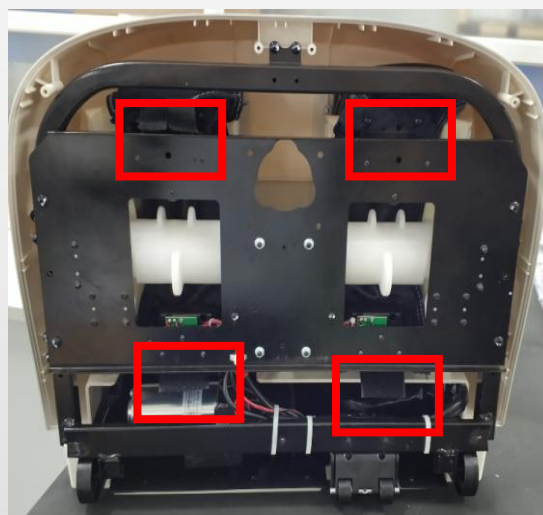
B. unzip the zipper



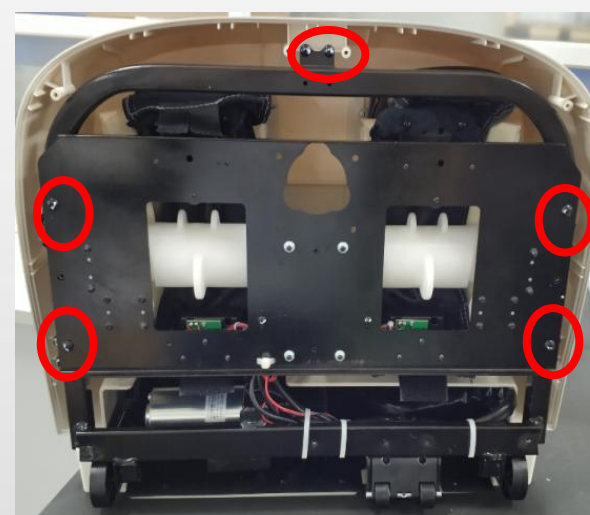
C. remove 4 screws



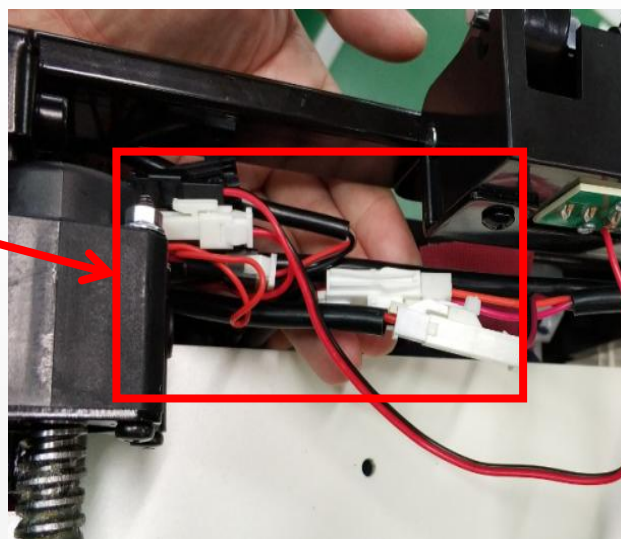
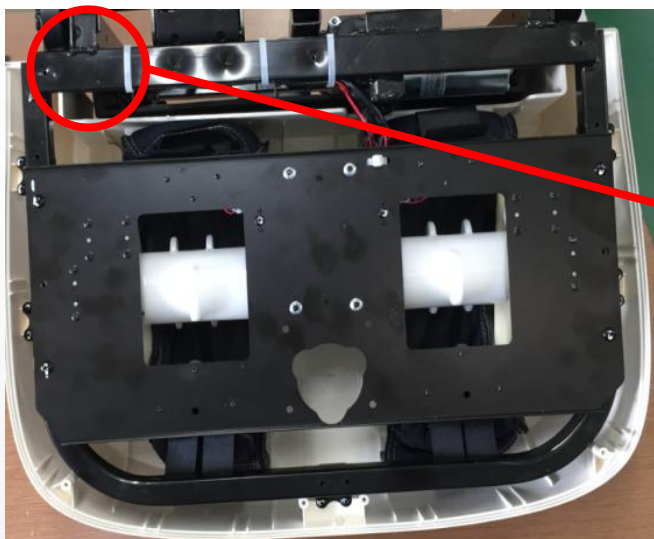
D. remove 9 screws



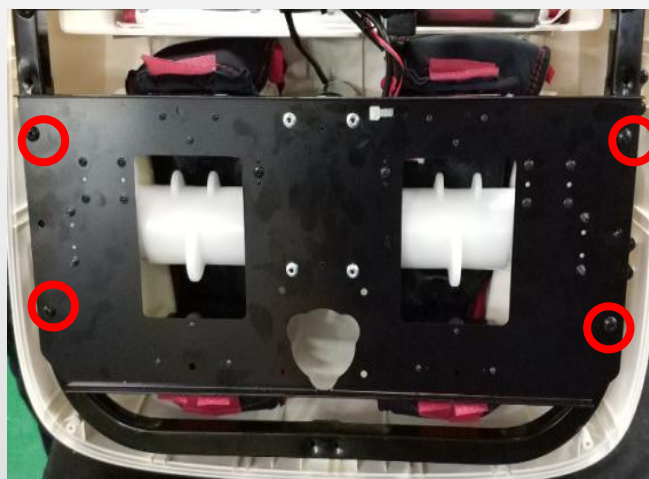
E. remove screws



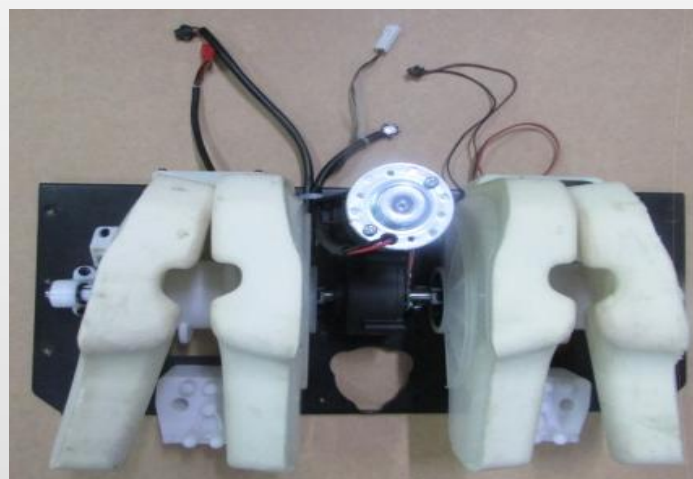
F. remove 5 screws



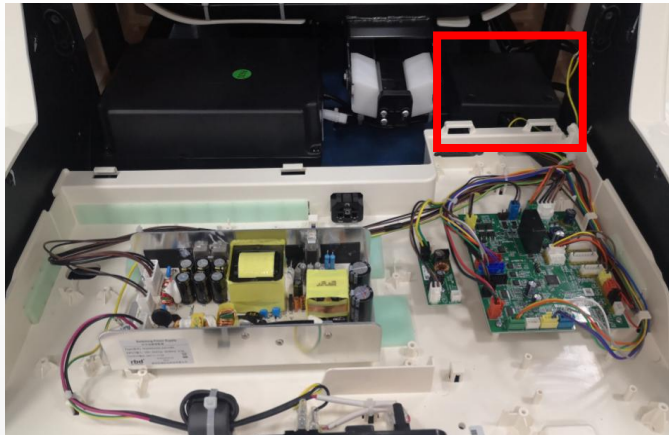
G. Cut off button,Unplug all terminals



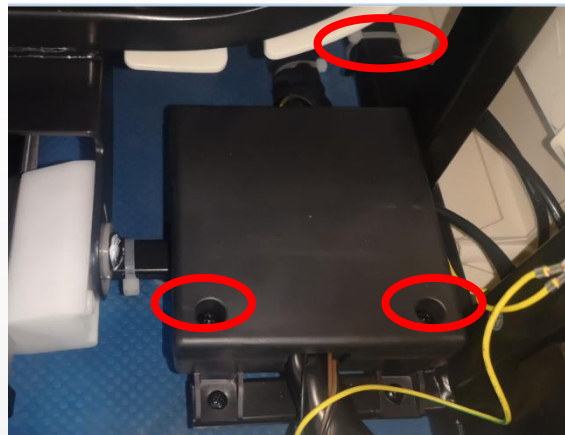
H.remove 4 screws



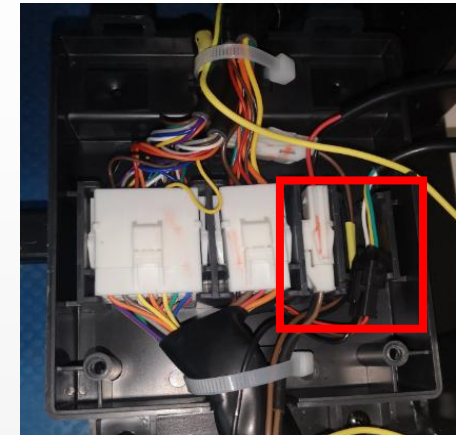
## 22、disassembly of backrest actuator:



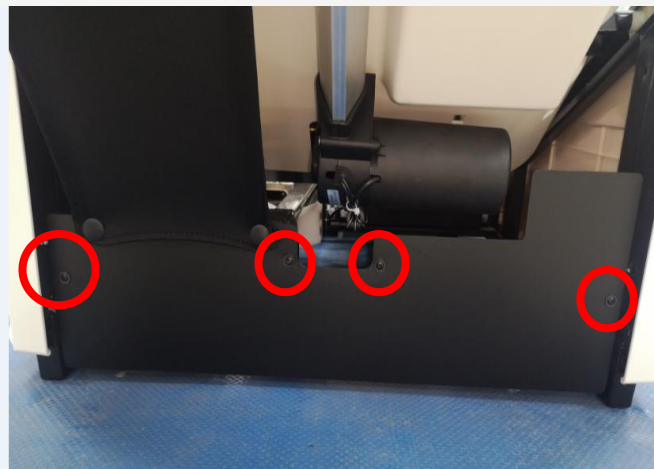
A.switch box



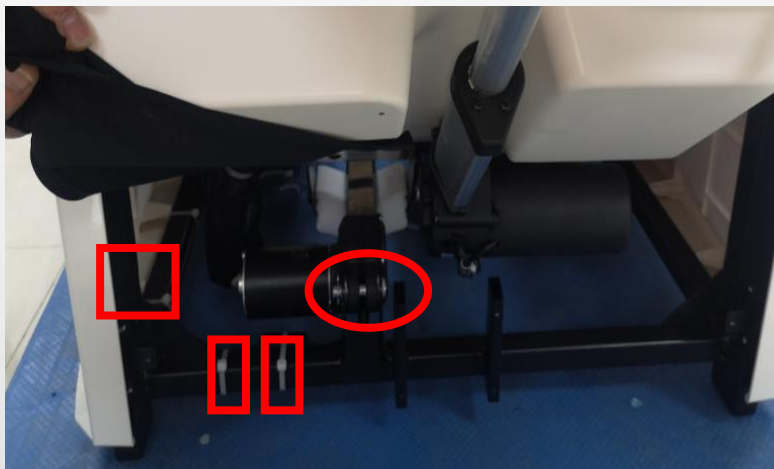
B.open the box



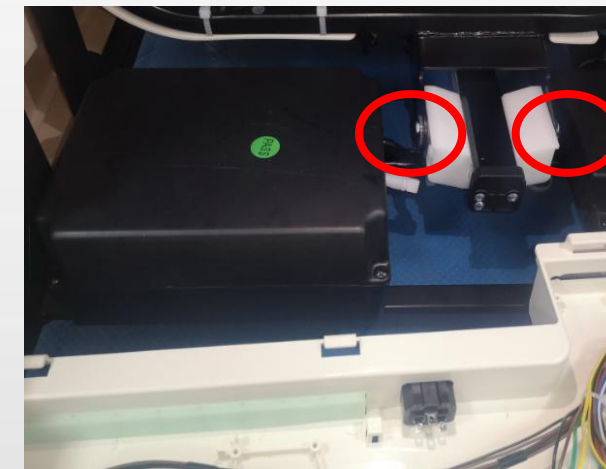
C.disconnect the terminals



D.remove 4 screws



E.cut cable, remove the shaft



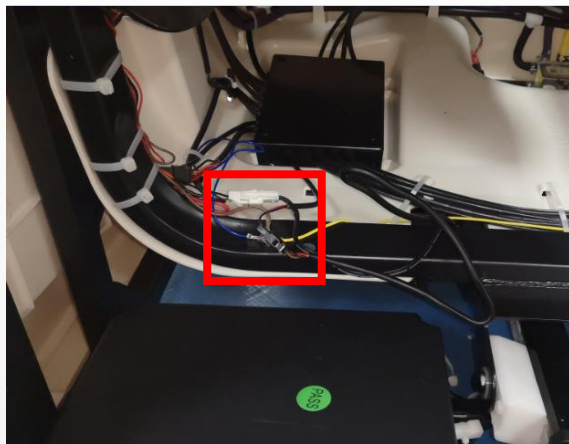
F.remove 2 screws

## 23、disassembly of legrest actuator:

A. disassembly of rear cover (reference 9 disassembly of rear cover)



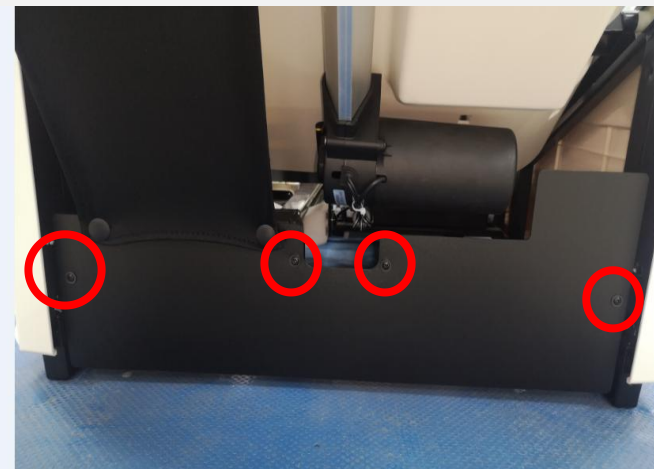
A.cut cable tie,disconnect the terminal



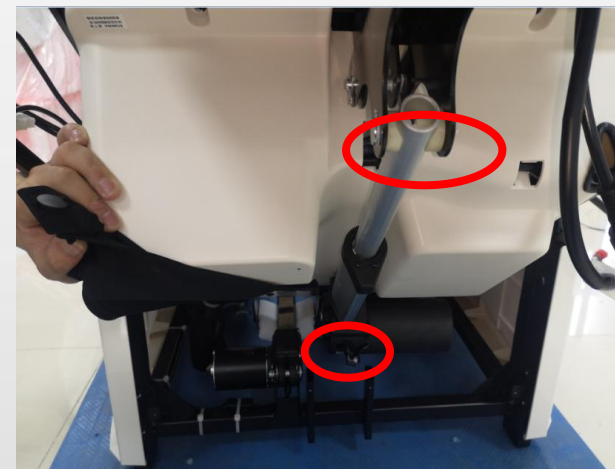
B. .Remove the blocking on both sides of the legrest



C. disconnect the terminal and air hose



D.remove 4 screws



E.take down the shaft,

## 五、Massage chair fault judgment

### 1、error code:

设置页面

长按此区域

在设置页面屏幕最下方长按数秒,将弹出工程模式密码输入页面

密码: **0592**  
或 **0000**

<<

project\_version

[0xE0] auto	[0xE6] No time	[0xEC] info
[0xE1] manual	[0xE7] spike	[0xED] mute
[0xE2] packing1	[0xE8] age	[0xEE] other 2
[0xE3] check 1	[0xE9] test 1	[0xEF] other 3
[0xE4] check 2	[0xEA] test 2	disable error
[0xE5] check 3	[0xEB] packing2	show Log

Log:

No.	phenomenon	problem description	steps of shooting the trouble	remark
1	remote control tested any key pressed more than 40 seconds	1.one of the KEY has been blocked.	1.Detect remote control buttons	enter auto-check model
2	The communication between remote controller and the main PCB has exceeded 4S and has not been successful	1.remote controller wire do not connect well	1.replace remote controller wire	enter auto-check model
3	upper backrest signal is abnormity	1.The connector of the backrest wire is not well connected 2.Backrest wire Broken	1.check the connector of backrest wire 2.change the backrest wire	enter auto-check model
4	upper mechanism rolling signal is abnormity	1.The connector of the backrest wire is not well connected 2.rolling sensor broken	1.check the connector of backrest wire 2.rolling sensor broken	enter auto-check model
5	remote control tested any key pressed more than 40 seconds	1.one of the KEY has been blocked.	1.check remote control or side panel controller	enter auto-check model
6	leg rest tested more than 4 seconds	1.connector of leg rest wire not well 2.wire of leg rest broken	1.check the connector of leg rest wire 2.change the wire of leg rest	enter auto-check model

7	upper mechanism kneading signal is abnormity	1.width inspection board is broken 2.the wire connect to the width inspection board is disconnected	1.change width inspection board 2.change backrest wires.	enter auto-check model
8	upper mechanism more than 5 seconds did not tested the wide signal	1.width inspection board is broken 2.the wire connect to the width inspection board is disconnected 3.kneading motor is broken or kneading belt is lost	1.change width inspection board 2.change backrest wires. 3.change kneading motor	enter auto-check model
9	upper mechanism more than 5 seconds did not tested the centre signal	1.width inspection board is broken 2.the wire connect to the width inspection board is disconnected 3.kneading motor is broken or kneading belt is lost	1.change width inspection board 2.change backrest wires. 3.change kneading motor	enter auto-check model
10	upper mechanism more than 5 seconds did not tested the narrow signal	1.width inspection board is broken 2.the wire connect to the width inspection board is disconnected 3.kneading motor is broken or kneading belt is lost	1.change width inspection board 2.change backrest wires. 3.change kneading motor	enter auto-check model

11	No kneading reversing signal was detected at 10S on the upper movement	1.Main PCB is broken	1.change Main PCB.	enter auto-check model
12	The width signal was also detected after the upper movement kneading motor was turned off	1.Main PCB is broken	1.change Main PCB.	enter auto-check model
13	upper movement tested signals from up & down limit sensor at the same time.	1.upper&lower limit sensor is broken. 2.backrest wire or the terminals broken.	1.Change up & down limit sensor 2.check whether the backrest wire is well connected	enter auto-check model
14	upper movement more than 40s didn't tested the signal from the upper limit sensor	1.upper limit sensor is broken. 2.backrest wire is disconnected 3.rolling motor is broken or rolling motor wire disconnected	1.change upper limit sensor 2.check whether the backrest wire is well connected. 3.change rolling motor or rolling motor wire.	enter auto-check model
15	upper movement didn't tested the rolling counting signal	1.backrest wire is not well connected. 2.the counting sensor of the rolling motor is broken	1.check whether the backrest wire is well connected 2.change the counting sensor of the rolling motor	enter auto-check model

16	upper movement test the signal from upper limit sensor in 2 seconds test the lower limit sensor	1.lower limit sensor or upper limit sensor is broken.	1.change lower limit sensor or upper limit sensor 2.Check if the lower limit sensor or upper limit sensor wire is properly connected.	enter auto-check model
17	upper movement more than 40s didn't tested the signal from the lower limit sensor	1.lower limit sensor is broken. 2.backrest wire is disconnected 3.rolling motor is broken or rolling motor wire disconnected	1.change lower limit sensor 2.check whether the backrest wire(black) is well connected. 3.change rolling motor or rolling motor wire.	enter auto-check model
18	upper movement test the signal from lower limit sensor in 2 seconds test the upper limit sensor	1.upper limit sensor or lower limit sensor is broken.	1.change upper limit sensor or lower limit sensor 2.Check if the lower limit sensor or upper limit sensor wire is properly connected.	enter auto-check model
19	when start the leg rest actuator, there is no counting signal for more than 2.5 seconds (or 40 seconds did not test the actuator Reset signal)	1.leg rest actuator broken 2.leg rest actuator wire broken 3.Leg push rod count wire off	1.change leg rest actuator 2.check the wire of the leg rest actuator 3.check the leg push rod count line connection	enter auto-check model

20	The sensors on the front and back of the leg telescopic push rod are both high indicating that the sensors are abnormal or the terminals are off	1. The expansion sensor is faulty or the cable connection is faulty 2. The telescopic motor is broken	1. Replace the sensor 2. Detecting sensor wires 3. Replace the telescopic motor	enter auto-check model
21	The leg retractable pushrod 20S does not detect the front sensor signal	1. The expansion sensor is faulty or the cable connection is faulty 2. The telescopic motor is broken	1. Replace the sensor 2. Detecting sensor wires 3. Replace the telescopic motor	enter auto-check model
22	The rear end signal is detected within 2.5S after the front end signal is detected by the leg telescopic pushrod (the rear end sensor is broken)	1. The expansion sensor is faulty or the cable connection is faulty 2. The telescopic motor is broken	1. Replace the sensor 2. Detecting sensor wires 3. Replace the telescopic motor	enter auto-check model
23	The leg retractable pushrod 20S does not detect the rear sensor signal	1. The expansion sensor is faulty or the cable connection is faulty 2. The telescopic motor is broken	1. Replace the sensor 2. Detecting sensor wires 3. Replace the telescopic motor	enter auto-check model
24	The rear end signal was detected by the leg telescopic pushrod and the front end signal was detected within 2.5S (the rear end sensor was broken)	1. The expansion sensor is faulty or the cable connection is faulty 2. The telescopic motor is broken	1. Replace the sensor 2. Detecting sensor wires 3. Replace the telescopic motor	enter auto-check model

25	when start the backrest recline actuator, there is no counting signal for more than 2.5 seconds	1.backrest recline actuator is broken 2.backrest recline actuator wire is disconnected 3.the signal wire of the backrest recline wire is disconnected	1.change backrest recline actuator 2.check whether backrest recline actuator motor wire is well connected. 3.check whether the signal wire of the backrest recline actuator is well connected	enter auto-check model
27	upper movement tested signals from front&back limit sensor at the same time (3D )	1.3D limit sensor broken 2.3D limit sensor wire broken	1.change 3D limit sensor 2.cheke whether 3D limit sensor wire connect well or not	enter auto-check model
28	Side panel POWER button long press for more than 50 seconds	1.Button stuck	1.check POWER button	enter auto-check model
29	upper movement 3D counting signal is abnormity	1.3D counting sensor is broken 2.3D counting sensor wire connect not well	1.change 3D countinng sensor 2.check wether 3D counting sensor wire connect well	enter auto-check model
30	After tested 3D limit sensor signal, then tested the other limit sensor signal in 2 seconds	1.3D limit sensor brken	1.change 3D limit sensor	enter auto-check model

31	3D limit sensor tester more than 10 seconds(3D)	1.3D limit sensor broken 2.3D limit sensor wire broken 3.3D motor broken 4.The 3D light shield is loose	1.change 3D limit sensor 2.cheke whether 3D limit sensor wire connect well or not 3.change 3D motor 4.check wether the 3D light shield is loose	enter auto-check model
33	Abnormal anti-collision signal (the movement on the anti-collision signal of the control board of the lower movement triggers more than 10S under the lower limit of the upper limit)	1.Sensor abnormality 2.Abnormal wiring	1.replace the sensor 2.replace the wire	enter auto-check model
34	The communication between the lower mechanism control board and the main PCB has exceeded 4S and has not been successful	1.Poor contact between the back cable and the main PCB 2.lower mechanism docking line disconnection	1.check the terminalconnect well or not 2.replace the cable	enter auto-check model
35	The upper and lower limit sensors of the lower mechanism are both effective	1.replace upper and lower limit sensors of lower mechanism 2.backrest wire of lower mechanism do not connect well	1. Replace the upper and lower limit sensor under the movement 2. Check the signal cable connection of the back frame under the movement	enter auto-check model

36	When the lower movement has the walk function turned on, an abnormal walk count was detected	1. The signal on the back frame of the lower movement is in poor contact with the cable 2. The movement stroke counting sensor is broken	1. Lower the movement and check whether the signal pair of the back frame is inserted properly 2. The movement stroke counting sensor is broken	enter auto-check model
37	The kneading motor rotation count signal was not detected in 5S of the lower movement	1. The width detection board is broken 2. Connections to the width board are abnormal 3. Kneading motor broken or belt off	1. Replace the width detection board 2. Replace the signal cable for the back frame 3. Replace the motor	enter auto-check model
38	The lower movement 5S clock does not detect the wide position signal	1. The width detection board is broken 2. Connections to the width board are abnormal 3. Kneading motor broken or belt off	1. Replace the width detection board 2. Replace the signal cable for the back frame 3. Replace the motor	enter auto-check model
39	The upper limit sensor signal was not detected in the lower movement 40S	1. The upper limit sensor is faulty 2. The cable to the back frame falls off 3. The walking motor is broken or disconnected	1. Replace the upper limit sensor board 2. Check the signal cable connection of the back frame 3. Replace the walking motor or cable	enter auto-check model

40	When the lower movement has the walking function turned on, an abnormal walk count was detected	1. The back signal is in poor contact with the cable 2. The stroke count sensor is broken	1. Check whether the back frame signal pair cable is properly inserted 2. Stroke count sensor is broken	enter auto-check model
41	The lower movement upper limit sensor detects the signal and detects the lower limit sensor signal within 2S	1. The lower (upper) limit sensor is faulty	1. Replace the lower (upper) limit sensor plate 2. Check the lower (upper) limit sensor wire connection	enter auto-check model
42	The lower limit sensor signal was not detected in the 40S of the lower movement	1. The lower limit sensor is faulty 2. The cable to the back frame falls off 3. The walking motor is broken or disconnected	1. Replace the lower limit sensor board 2. Check the cable connections 3. Replace the faulty or connected walking motor	enter auto-check model
43	After the lower limit sensor detects the signal, the upper limit sensor signal is detected within 2S	1. The lower (upper) limit sensor is faulty	1. Replace the lower (upper) limit sensor plate 2. Check the lower (upper) limit sensor wire connection	enter auto-check model



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