

EC-3209M massage chair service



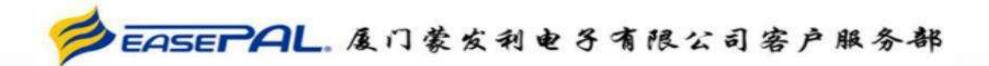
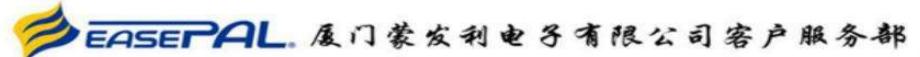


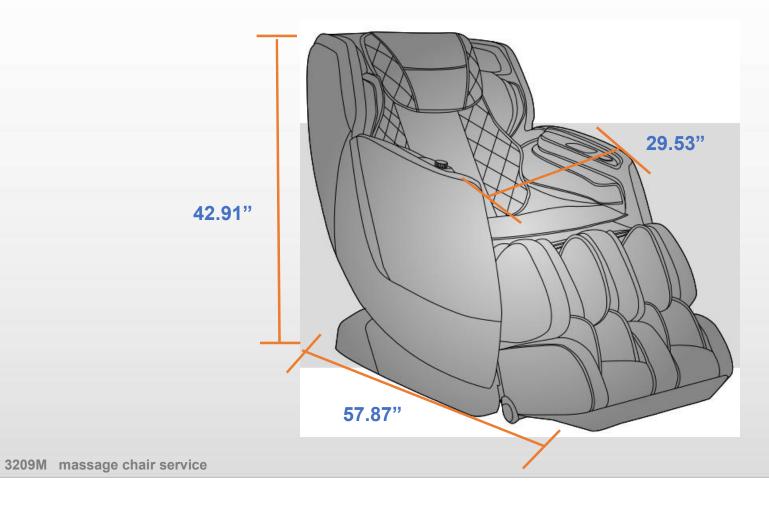
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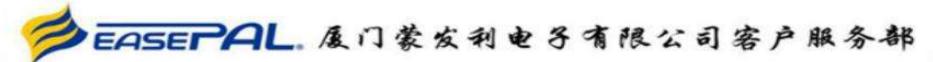




—, Product introduction

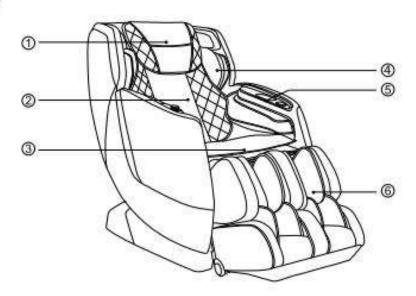


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Chair Components

Front



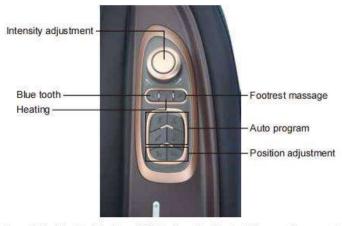
- 1 Pillow Pad
- ② Backrest Pad
- 3 Seat Cushion

- Shoulder side massage section
- ⑤ Hand and arm massage section
- 6 Legrest

EASEPAL 展门蒙安利电子有限公司客户服务部 How to Use

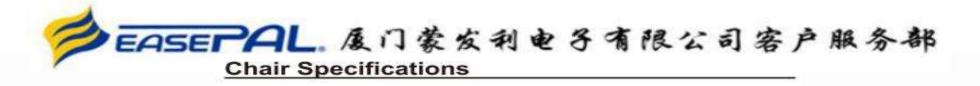


How to Use

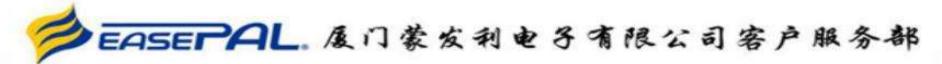


Remark:the blue tooth button will light when the blue tooth is open,then remote will show blue tooth icon.





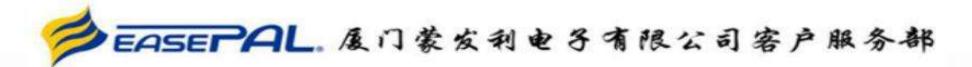
Description	Specifications
Model No.	TI - Pandora
Rated Voltage	110-120V~
Rated Frequency	60Hz
Rated Power Consumption	120W
Rated Time	15 minutes
Dimensions(L x W x H)	Upright: 57.87" x 29.53" x 42.91"
	Reclined:71.26" x 29.53" x 33.46"
Weight	Gross Weight: Approx 218.3lbs
	Net Weight: Approx.180.81bs
Length of Wire	Controller wire: 59.0"
	Power supply wire: 70.9"
Usage Condition	Environment temperature: 32°F~95°F
	Contrasting humidity: 20-80RH
Storage Condition	Storage temperature: 23°F~95°F
	Storage humidity: 20-80RH
Safety Feature	Equipped with overheated and power
laximum body weight of user	220 lbs



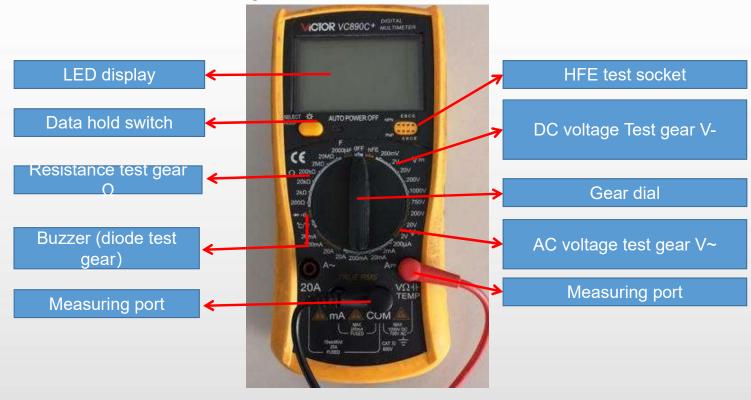
—. Massage chair tools and use

1.tools





2. Use and measurement of digital multimeter





2.1. Function of the test gears

Data hold switch: Memorize the measured data for comparison.

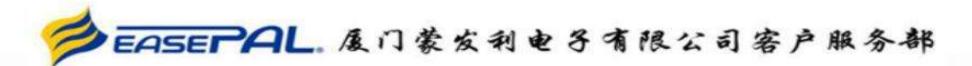
Buzzer (diode test gear): Measure the quality of diode, the on-off and alarm function of circuit

Resistance gear test gear: Measure the quality and valve of resistance

DC voltage Test gear V-: Measure DC voltage AC voltage test gear V~: Measure AC voltage

 $\mathbf{V}\Omega$ / \mathbf{COM} : $\mathbf{V}\Omega$ 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





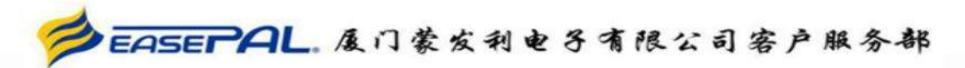
As shown in the left picture, first set the multimeter to the buzzer and power it

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.



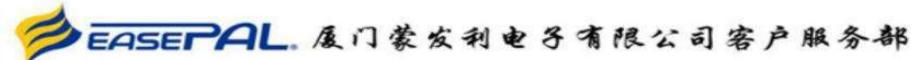
2.3, Measurement of AC voltage



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).



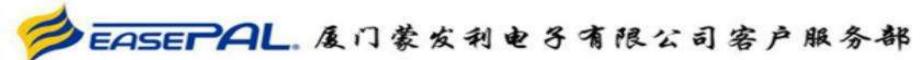
2.4. DC voltage measurement



As shown in the picture above: the test result is "1.58", indicating that the voltage at both ends of the battery is 1.58v, and the red lead is connected to the "+" pole of the battery, and the black lead is connected to the "-" pole of the electromagnetic.

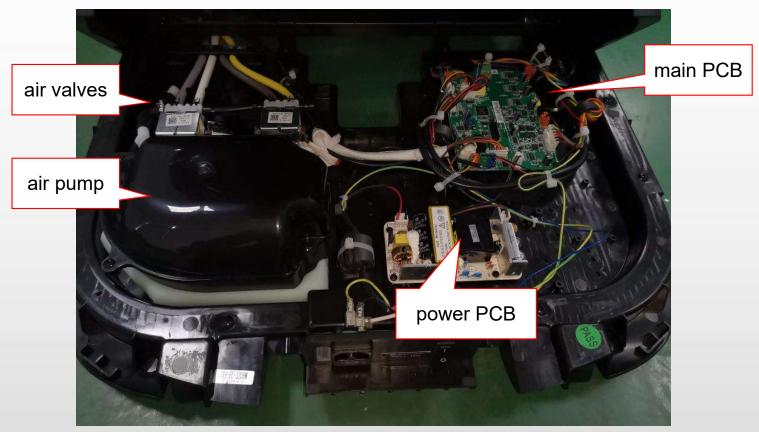


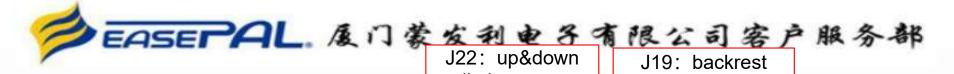
As shown in the above picture: the test result is "- 1.58", indicating that the voltage at both ends of the battery is 1.58v, and the red lead is connected to the "-" pole of the battery, and the black lead is connected to the "+" pole of the electromagnetic



三、Circuit working principle

1.Internal structure diagram (main PCB box):





limit sensor

counting sensor

2, main PCB:

J28:24V power for legrest

J13:24V power for Bluetooth PCB

J14:24V power for USB charge

J10:air valve

J9: air pump

J20: power for mechanism motors

J12: DC24V power in

J23: mechanism communication

J5: remote control

J7:heater

J8:Vibrating motor

J18: legrest counting sensor

J1:side panel control

J2:legrest PCB

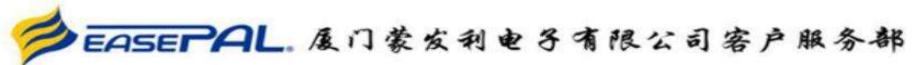
J6:Bluetooth communication

J16: backrest actuator

J17: legrest actuator

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四、Massage chair removal instructions

1, disassembly of the pillow:



unzip the zipper



unzip the zipper



remove the pillow



Remove the pillow liner

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2. Disassembly of the backrest pad:



unzip the top zipper



unzip the zipper on both side of backrest pad 3209M massage chair service



unzip the zipper fixing legrest and backrest pad



disconnected the terminal



unzip the zipper fixing legrest



remove backrest pad

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3, disassembly of the legrest:



unzip the zipper fixing legrest and backrest pad



Push out the leg to the right 3209M massage chair service



remove 2 limit baffles



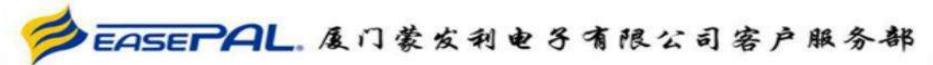
disconnected the air hose and terminal



the baffles



remove legrest

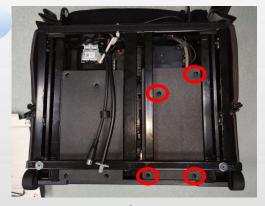


4. disassembly of legrest PCB:

remove the legrest (refer to 3, disassembly of the legrest)



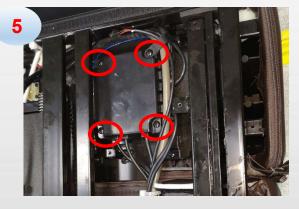
remove 6 screws



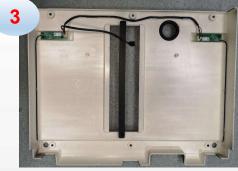
remove 4 screws



disconnected the terminal



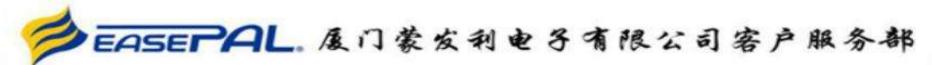
remove 4 screws fixing the cover



remove the cover



disconnected all the terminals and remove 4 screws, then remove the legrest PCB



5, disassembly of air valve

remove the legrest (refer to 3, disassembly of the legrest)



remove 6 screws



disconnected the terminal



remove the cover



disconnected the air hose and terminal, remove 4 screws

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6, disassembly of upper legrest:

remove the legrest (refer to 3, disassembly of the legrest)



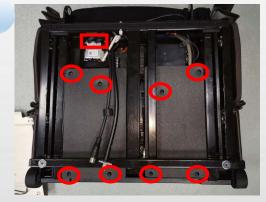
remove 6 screws



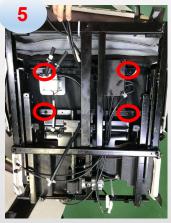
disconnected the terminal



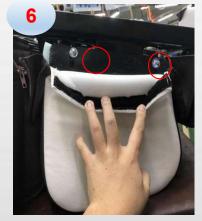
remove the cover



remove 8 screws and disconnected the air hose



remove 4 screws



 $\begin{array}{c} \text{remove 2 screws both} \\ \text{side} \end{array}$



remove upper legrest

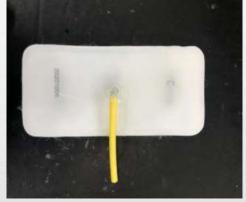
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open the cloth cover



middle air bag



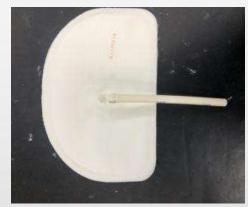
disconnected the air hose



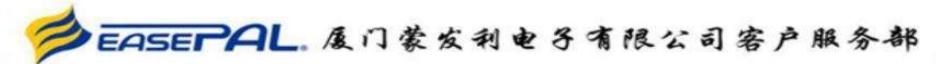
remove the cover and air bag



remove the air bag



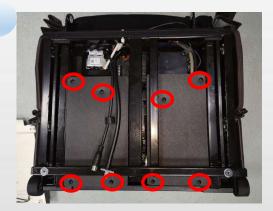
side air bag



7. disassembly of lower legrest:



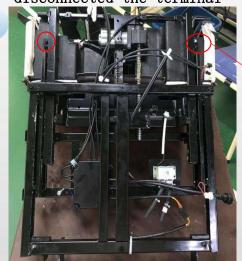
remove 6 screws



remove 8 screws



disconnected the terminal



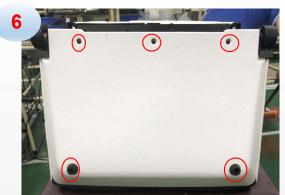
3

remove the cover



remove 2 screws

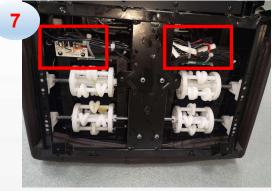
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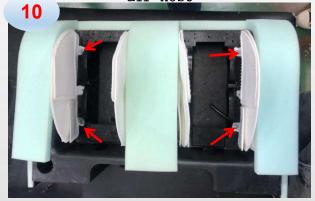
remove 5 screws



remove the lower legrest cover



disconnected the terminals and air hose



remove the screws fixing air bag



remove 4 screws

11

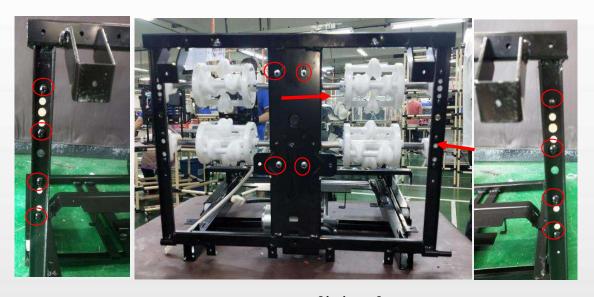




left&right air bag for lower legresr



8, disassembly of foot massage unit:



remove screws fixing foot massage unit

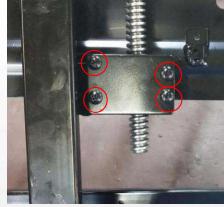


foot massage unit

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9. disassembly of Telescopic motor assembly:







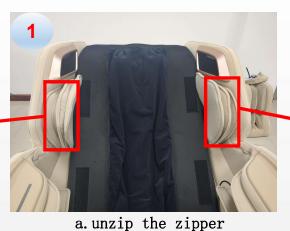
remove screws fixing Telescopic motor assembly

Telescopic motor assembly

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10, disassembly of shoulder:













c.remove 2 screws



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d. Tear off the sticky buckle





f. remove the shoulder

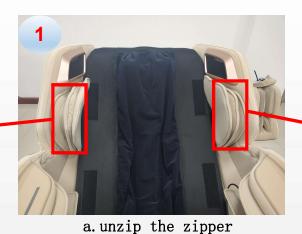


g. then we can remove the cover

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11, disassembly of side panel







2

 $b.\,Tear$ off the sticky buckle



c. Tear off the sticky buckle

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d. Lift the leg and remove the screws fixing the side panel



e.Lift the front of the side panel in the direction of arrow 1, and then lift out the side panel in the direction of arrow 2

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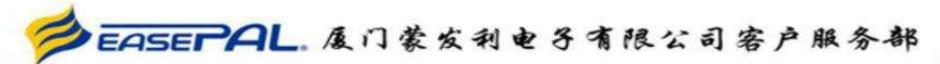


f. disconnected the terminals and air hose, remove left side panel





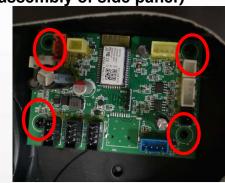
g. disconnected the terminals and air hose, remove right side panel



12, disassembly of inner right side panel

a. remove righr side panel (refer to 11, disassembly of side panel)

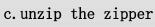




remove Bluetooth PCB









d. remove the cover



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e.remove the screws, disconnected air hose, remove air bag



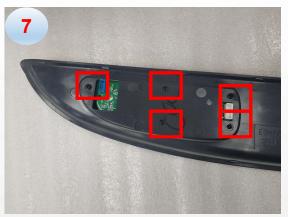
 $f.\,\mathsf{Pry}$ off the right armrest cover





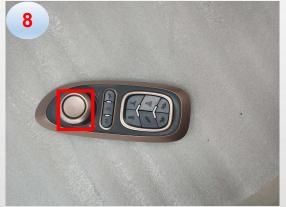
g. disconnected the terminals

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h.remove the screws and remove the side panel control



i. force the knob with the hands

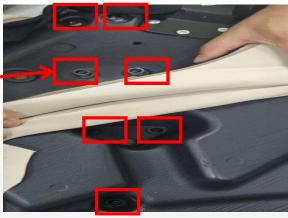


j. remove the screws and remove the PCBA



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k. remove the screws and remove the trim



1. Tear off the horn net cover



m. remove the screws

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n. remove the screws

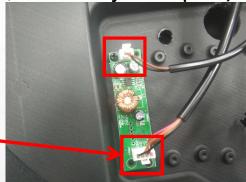
horn

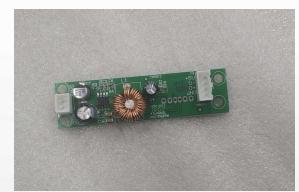


13, disassembly of inner left side panel

a. remove left side panel (refer to 11, disassembly of side panel)







b. disconnected the terminal and remove the screws, remove the USB charging PCB



c. unzip the zipper 3209M massage chair service



d. remove the cover







e.remove the screws, disconnected air hose, remove air bag



f. Pry off the right armrest cover



g. remove the screws



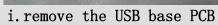
h. disconnected the terminal



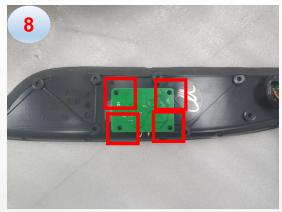
i.remove the screws
3209M massage chair service







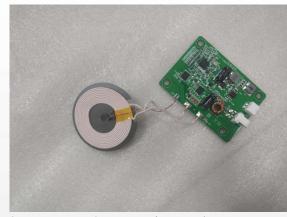




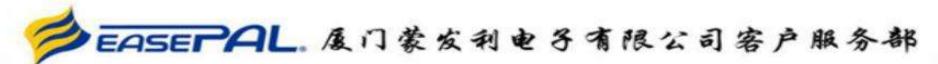
j. remove 4 screws



k. Tear off the magnetic ring



k. remove the Wireless charging unit



14. disassembly of remote control

a. remove left side panel (refer to 11, disassembly of side panel)







b. cut the cable tie and disconnected the terminal

c. remote control



15, disassembly of backrest cable

a. remove left side panel (refer to 11, disassembly of side panel)

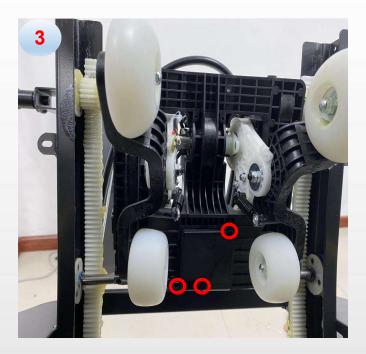


b. cut the cable tie

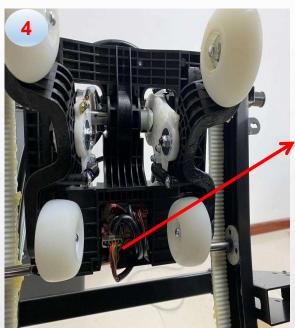


c. unzip the zipper

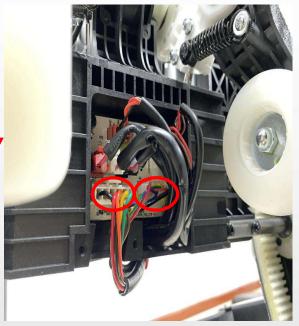
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d. remove 3 screws and remove the cover

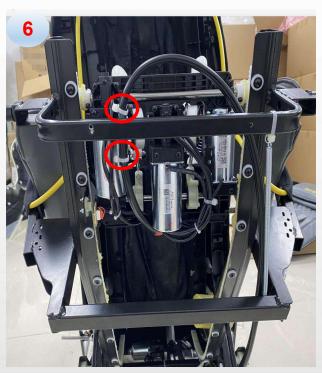


e. disconnected the terminal





f. remove rear cover



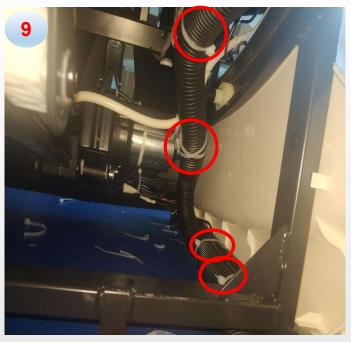
g. cut the cable tie



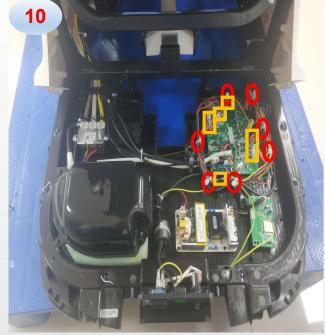
h. cut the cable tie and remove the screw fixing ground wire



i.remove 2 screws and remove the cover



j. cut the cable tie

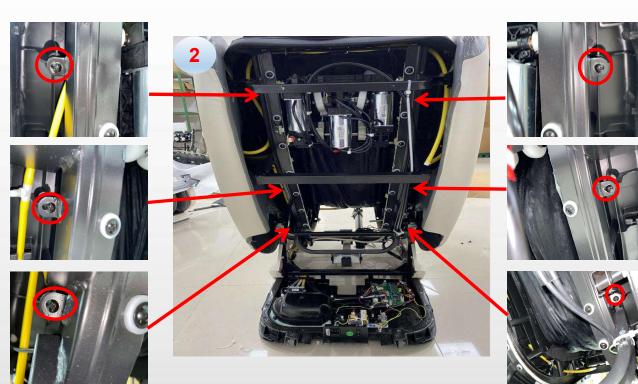


k. disconnected the terminals

16、 disassembly of front backrest cover



a. remove rear cover



b.remove 6 screw fixing
the cover

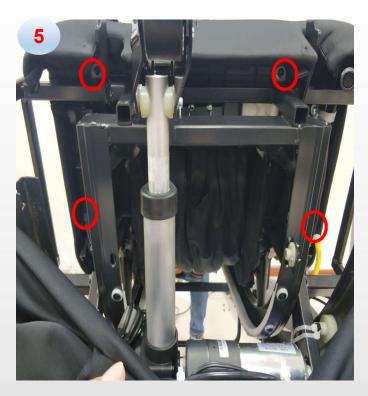
c. remove side panels (refer to 11, disassembly of side panel)



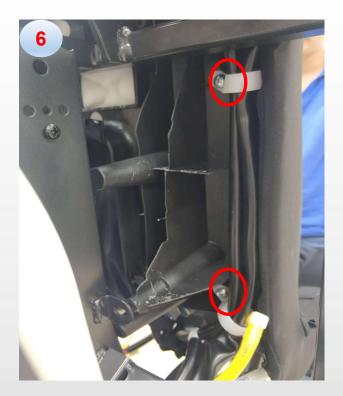
d. Raise the massage chair to this state



e.remove 6 screws



f.remove 4 screws fixing the cover under the seat

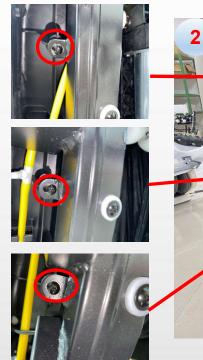


g. disconnected the air hose and terminals, then we can remove the front backrest cover

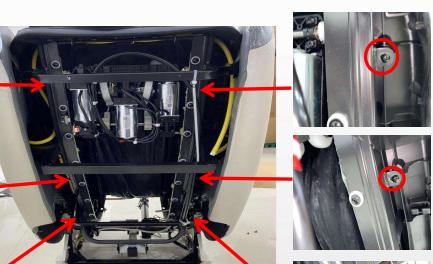
16, disassembly of mechanism



a. remove the cover

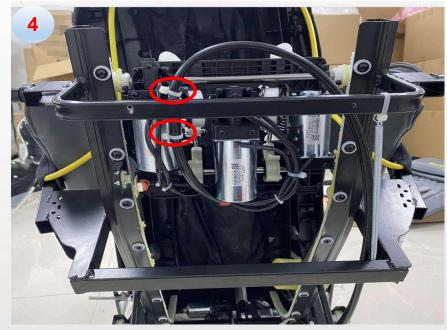


b.remove 6 screws fixing the front backrest cover

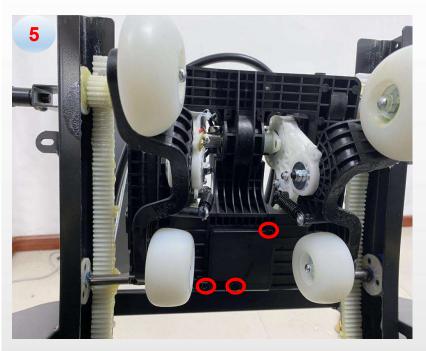




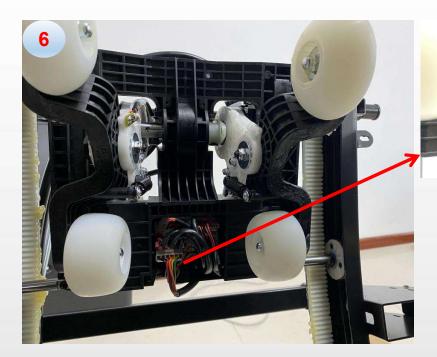
c. Push the front backrest forward to a certain angle to ensure that there is enough space to take out the mechanism. Remove 4 screws and 2 anti-collision screws (6 screws on the left and right) fixing the cross beam



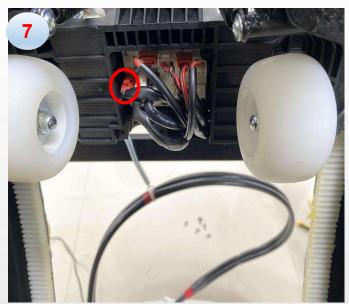
d. cut the cable tie



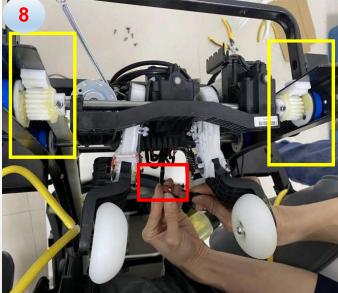
e.remove 3 screws and remove the cover



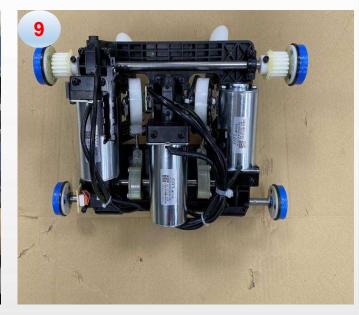
f. disconnected the terminals of backrest cable



g. disconnected the red
terminal (rolling motor)



h. Connect the red terminal with 24V power supply to make the mechanism go up, and the mechanism can be removed when the guide wheel on the mechanism goes out of the rack



i.mechanism

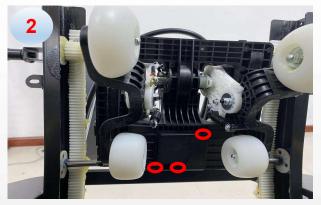
17、disassembly of mechanism Interposer PCB



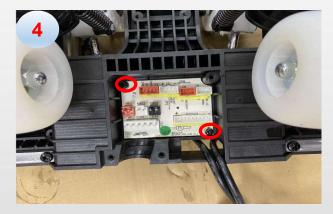
a.unzip the zipper



c. disconnected the terminals



b. remove the cover



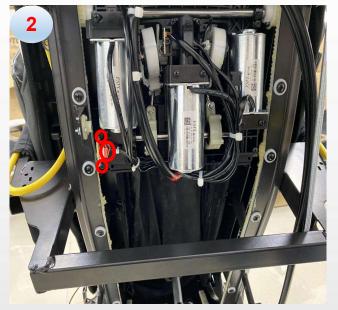
d. remove 2 screws and remove the mechanism Interposer PCB



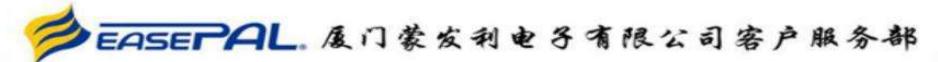
18、disassembly of up&down limit sensor



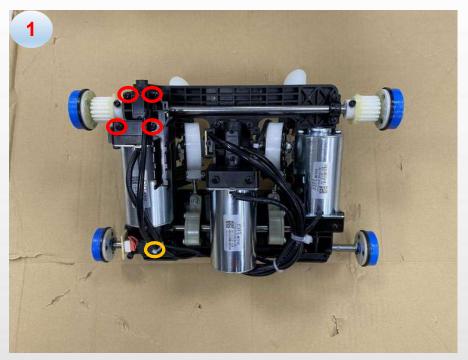
a. remove rear cover



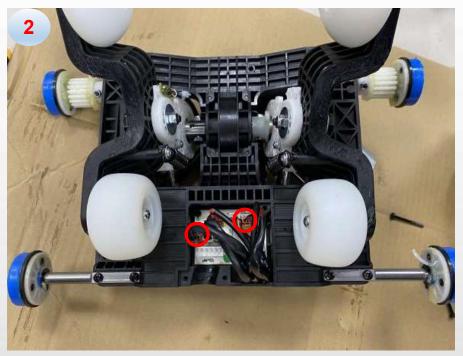
b.remove 2 screws and disconnected the terminal, remove the sensor



19、 disassembly of rolling motor

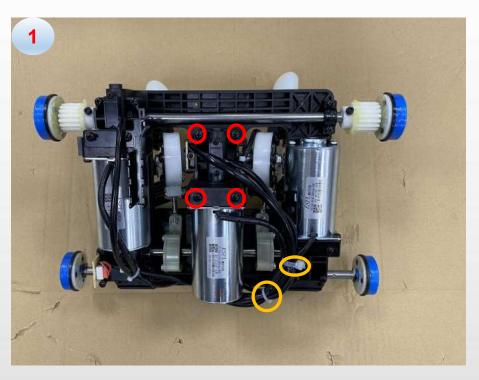


a.remove 4 screws, cut the cable tie

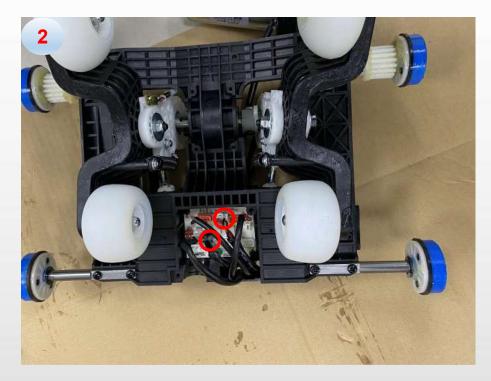


b. disconnected 2 terminals of the motor

20, disassembly of kneading motor



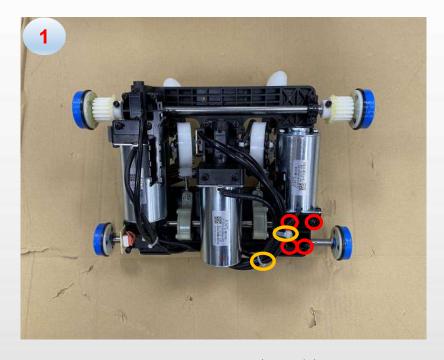
a.remove 4 screws, cut the cable tie



b. disconnected 2 terminals of the motor



21, disassembly of tapping motor



a.remove 4 screws, cut the cable tie

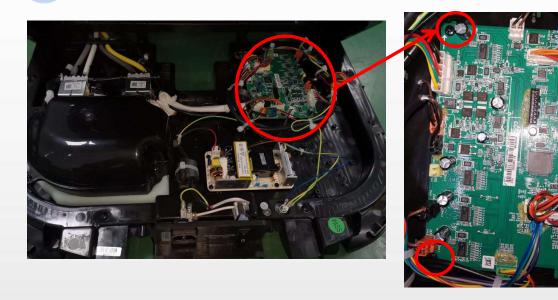


b. disconnected 2 terminals of the motor

22、 disassembly of main PCB



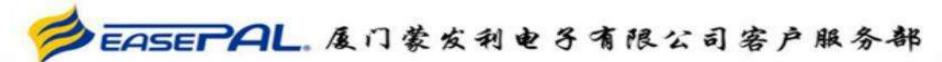
a. remove 2 screws and remove the cover



b. disconnected the terminals and remove 4 screws, remove main PCB

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23, disassembly of power PCB



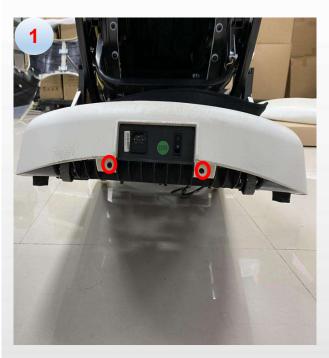




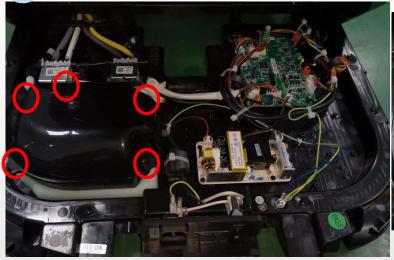
a. remove 2 screws and remove the cover

b. disconnected the terminals and remove 4 screws, remove power PCB

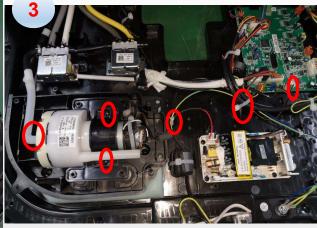
24、 disassembly of air pump



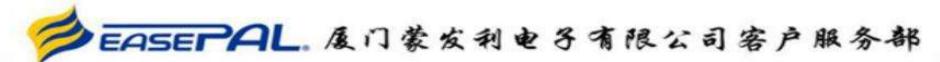
a. remove the cover



b.remove 5 screws and remove the cover



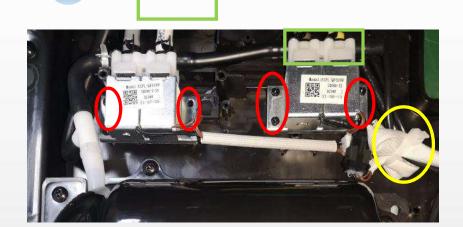
c.remove 2 screws, disconnected the air hose, cut the cable tie and disconnected the terminal, remove air pump



25, disassembly of air valves



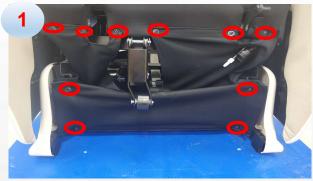
a. remove the cover



b.remove the screws fixing the air valve, disconnected the air hose, disconnected the terminal, then remove the air valve

26、 disassembly of backrest actuator: One person is required to lift the backrest at the rear to

prevent injury when removing theactuator



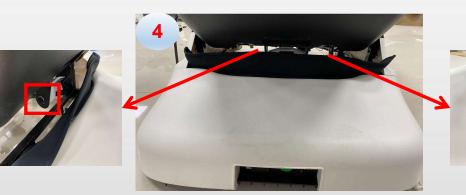
b. remove the screws



c.remove the pin and shaft, cut the cable tie

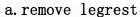


d. disconnected the terminals

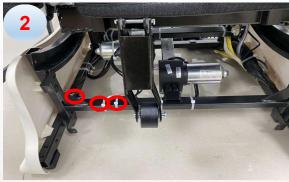


e.remove 2 screws, then remove the actuator

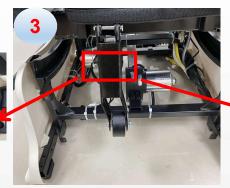
27、 disassembly of legrest actuator:













b. remove the screws

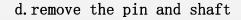


e. disconnected the terminals

c. cut the cable tie



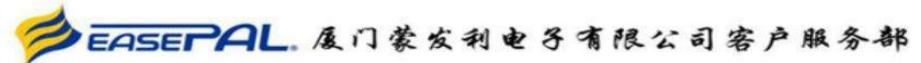
f.unzip the zipper





g. remove the other pin and shaft, remove legrest actuator





五、Massage chair fault judgment

No.	display	phenomenon	problem description	steps of shooting the trouble	remark
01	2 m /p	remote control tested any key pressed more than 40 seconds	1. one of the KEY has been blocked.	1. check the key of the remote control	turn on the chair
02	CP	remote control did not connected more than 4s.	power on, the upper and down	1.1.reconnecte the remote control or change the remote control wire. 3.Check the upper and down limit sensors and wiring	turn on the chair
03		sensors are valid at the same time	2.up or down limit sensor is	1. check whether the backrest wire is well connected 2. change the up & down limit sensor	turn on the chair
04	15 20 25 50 30	rolling counting sensor is abnormal	connected. 2 the counting sensor of the	1. check whether the backrest wire is well connected 2. change the counting sensor of the rolling	turn on the chair

05	15 20 25	Press and hold the side panel key (except power) for more than 40s	1. one of the KEY has been blocked.	1. check the key of the remote controland side panel	turn on the chair
06	15 20 25	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	turn the power
09	15 20 10 25 5 30	more than 5 seconds did not tested the middle signal	1. wideth inspection board is broken 2. the wire connect to the wideth inspection board is disconnected 3. kneading motor is broken or kneading belt is lost	1. change wideth inspection board 2. change backrest wires. (black and gray) 3. change kneading motor	turn the power
10	15 20 10 25 5 30	more than 5 seconds did not tested the narrow signal	1. wideth inspection board is broken 2. the wire connect to the wideth inspection board is disconnected 3. kneading motor is broken or kneading belt is lost		turn the power
13	15 20 25 10 30	tested signals from up & down limit		1. Change up & down limit sensor 2. check whether the backrest wire is well connected	turn the power

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14		more than 40s didn't tested the signal from the up limit sensor	2. backrest wires are 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.	turn the power
15	15 20 10 25 5 30	height counting signal error	rolling motor is broken 2.backrest wire is disconnected	1. change the counting sensor of the rolling motor. 2. check whether the backrest wire is well connected.	turn the power
16	15 20 25	after tested signal from up limit sensor then tested signal from down limit sensor in 2 seconds.	1.down limit sensor is broken	1. change down limit sensor 2. check whether the backrest wire(black) is well connected. 3. change rolling motor	turn the power
17	15 20 10 25 5 30	more than 40s didn't tested the signal from the down limit sensor	disconnected. 3.rolling motor is broken or	1. change down limit sensor 2. check whether the backrest wire(black) is well connected. 3. change rolling motor	turn the power
18	10	after tested signal from down limit sensor then tested signal from up limit sensor in 2 seconds.	1.upper limit sensor is broken.	1.change upper limit sensor	turn the power

19	15 20 25	can't test signal from foot rest recline actuator	broken 2. foot rest actuator motor wire is disconnected 3. the signal wire of foot rest	1. change foot rest recline actuator 2. check whether the foot rest recline actuator motor wire is well connected. 3. check whether the signal wire of foot rest actuator is well connected	turn the power
25	10	when start the zero-G actuator, there is no counting signal for more than 2.5 seconds (or 40 seconds did not test the actuator Reset signal)	1.zero-G actuator broken	1. change zero-G actuator 2. check the wire of the zero-G actuator	turn the power
28	10	and the side panel was not successful for more than 4S	L. The side panel wire is	1. Check whether the side panel wire is properly plugged 2. Replace the side panel wire	turn the power