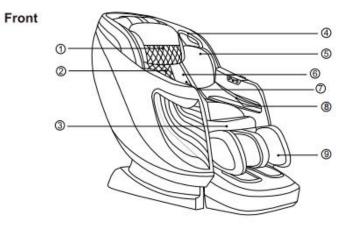


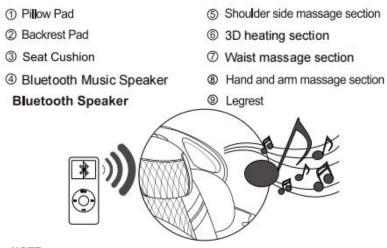
**Table of Contents** 

- Product introduction
- **\_\_**, Massage chair tools and use
- **Ξ**. Circuit working principle
- 四、Massage chair removal instructions

## 五、Massage chair fault judgment

## 参EASEPAL。厦门蒙发利电子有限公司客户服务部 一、Product introduction





#### NOTE:

The bluetooth speaker can only connect with one bluetooth device at a time. Please turn off your bluetooth device after using so that other users can enjoy it as well.

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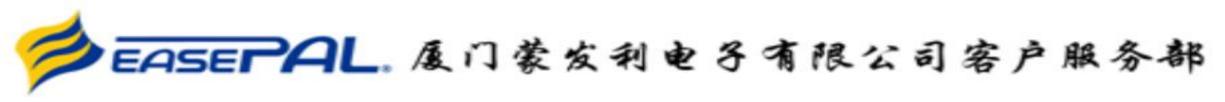
### -. Product introduction

Description	Specifications		
Model No.	Osaki Pro OS-3D Opulent		
Rated Voltage	110-120V~		
Rated Frequency	60Hz		
Rated Power Consumption	145W		
Rated Time	15 minutes		
Dimensions(L x W x H)	Upright: 64.2" x 29.7" x 50.2"		
	Reclined: 76.5" x 29.7" x 39.3"		
Weight	Gross Weight: Approx 276.1lbs		
	Net Weight: Approx 239.9lbs		
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		
Maximum body weight of user	220 lbs		

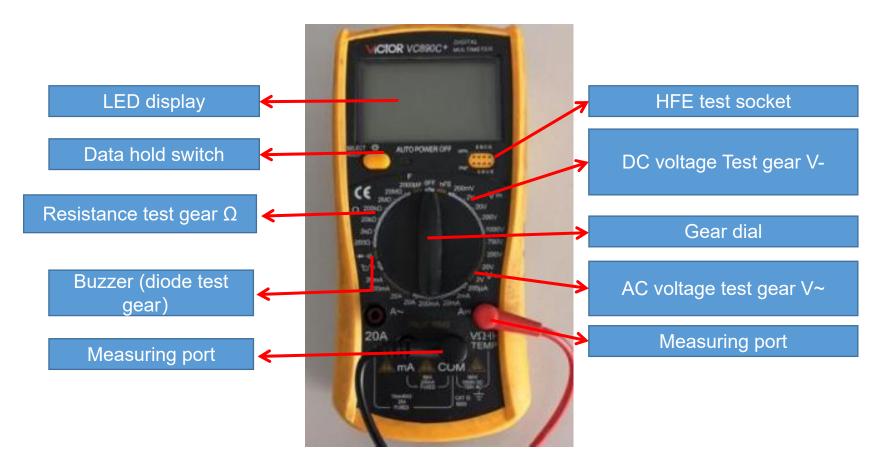


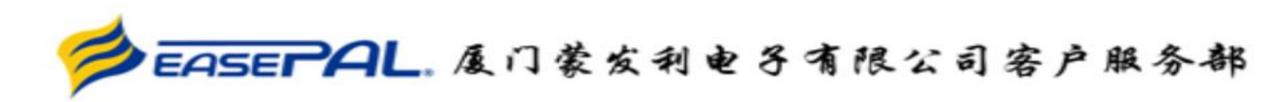
1.tools

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	Cable Ties	WIRE ONECTORS
Ratchet Tools Set	24V/DC power	Electric Driver	electrical adhesive tape	Cable lies	WIRE UNECTURS



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

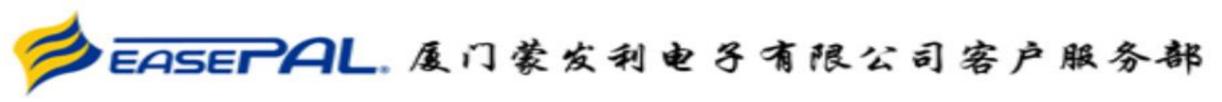
**Resistance gear test gear**: Measure the quality and value of resistance

DC voltage Test gear V-: Measure DC voltage

AC voltage test gear V~: Measure AC voltage

**V** $\Omega$  / **COM**: 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



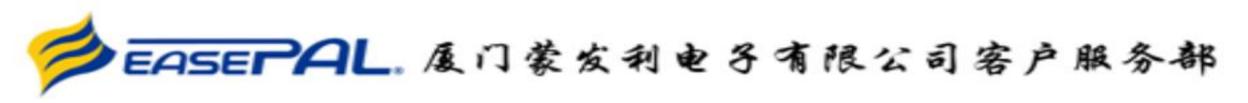
open circuit

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).

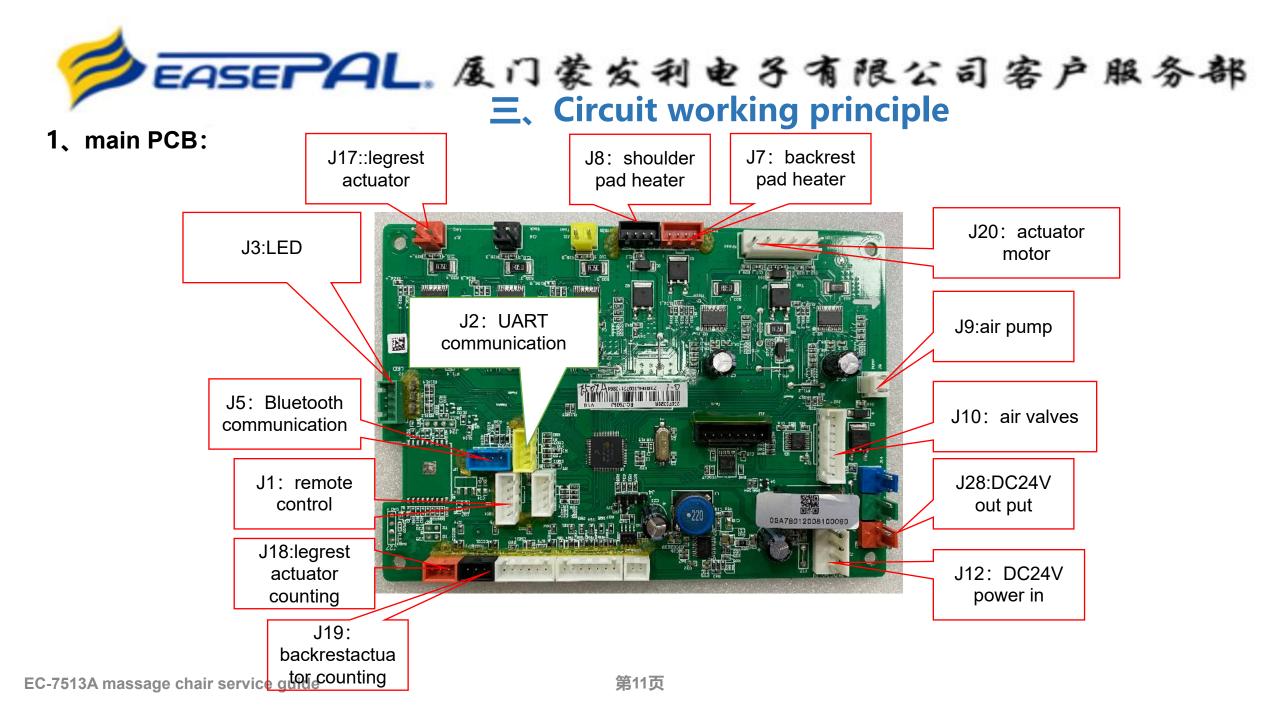
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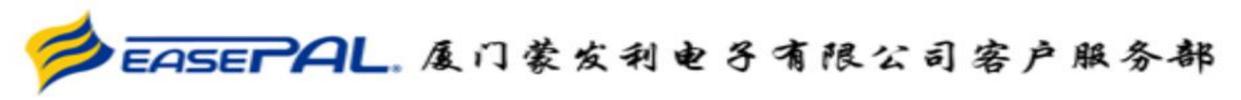
### 2.4. Measurement of dc voltag

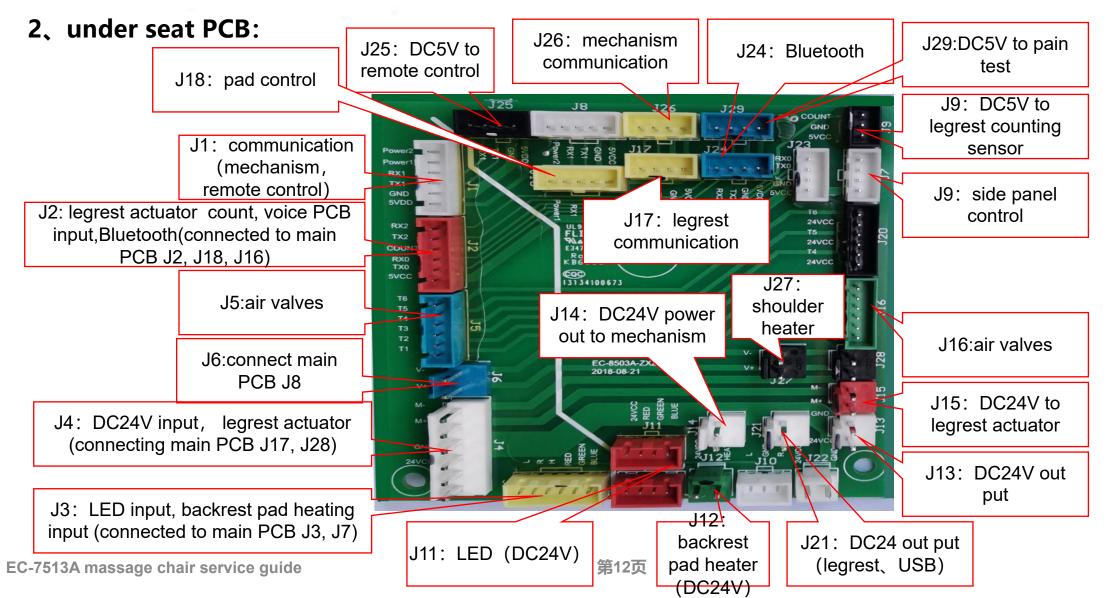


As shown in the figure above: the test result shows "1.58", indicating that the voltage at both ends of the battery has1.58V, and the red watch pen is connected to the battery's "+" pole, while the black pen is connected to the electromagnetic "-" pole.

As shown in the figure above: the test result shows "-1.58", indicating that the voltage at both ends of the battery has1.58V, and the red watch pen is connected to the battery "-" pole, and the black pen is connected to the electromagnetic "the black pen is connected to the black pen is connected to the electromagnetic "the black pen is connected to the black pen

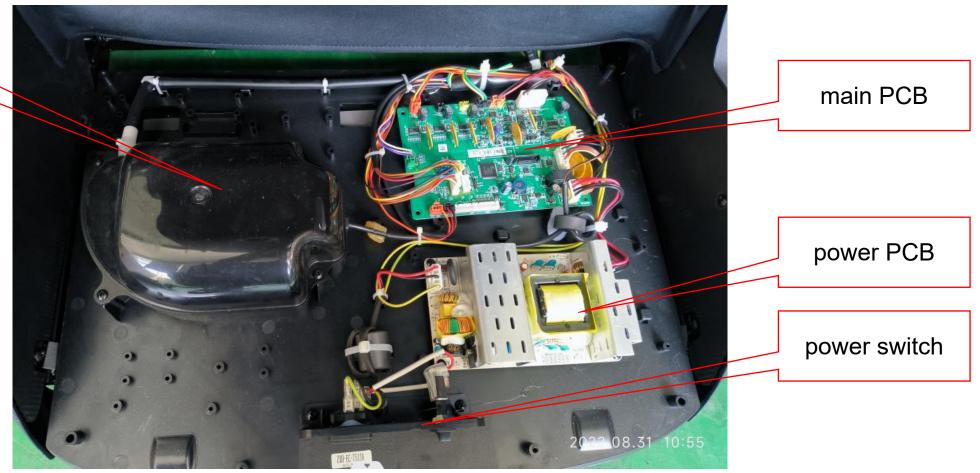




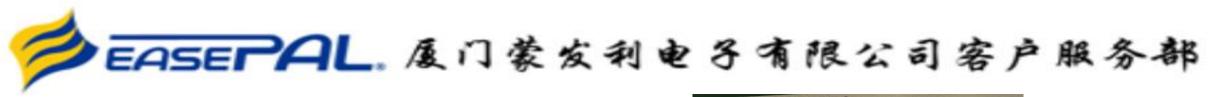




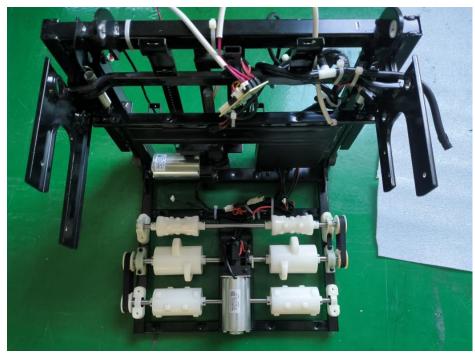
#### 1, main PCB box:



air pump



#### 2、legrest:



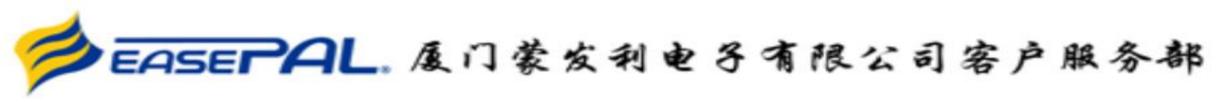
Iron frame of legrest



upper legrest



### lower legrest



#### 3.1, disassembly of the pillow



unziper the zipper



### remove the pillow



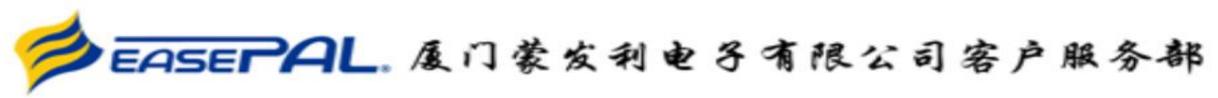
unzip the zipper



disconnected the terminal



remove the shoulder pad



#### 3.2、 disassembly of backrest pad



unzip the zipper



#### unzip the zipper



disconnected the terminal

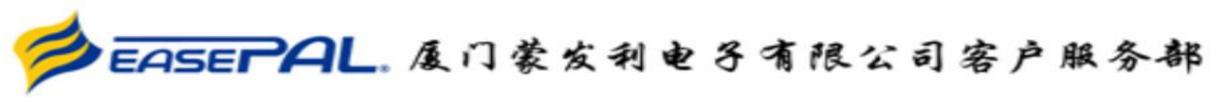








unzip the zipper EC-7513A massage chair service guide



#### 3.3, disassembly of the heater

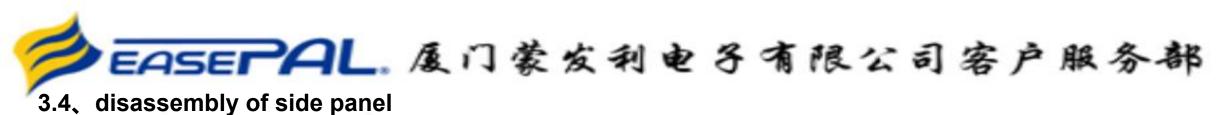


unzip the zipper



discontent terminals, remove heater

heater

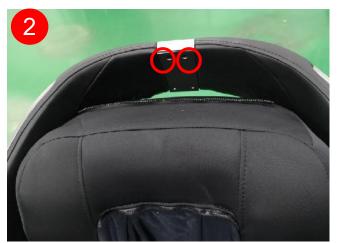




unzip the zipper



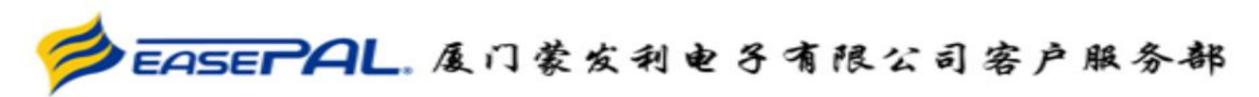
remove 2 screws



remove 2 screws



remove 6 screws





remove the screw of right side panel



unzip the zipper



lift up side panel



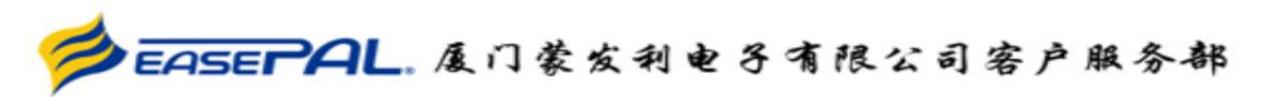
cut cable, discontent terminal and air hose



remove the screw



remove right side panel assembly





#### remove the screw of right side panel



lift up side pane



unzip the zipper



cut cable, discontent terminal and air hose



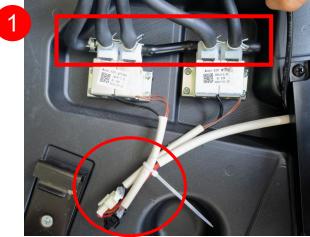
remove the screw



remove left side panel assembly

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3.5, disassembly of inner right side panel



disconnected the terminal and air hose, remove 4 screws



unzip the zipper



remove the air valve



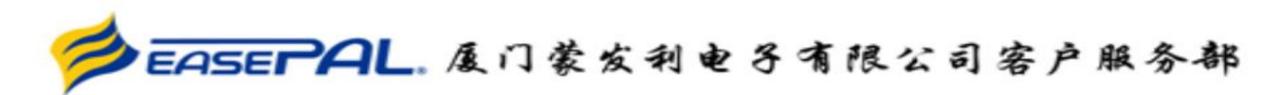
remove the arm cover



#### remove the air valve

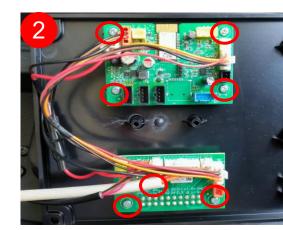


the air bag of arm





remove 4 screws



#### disconnected the terminals

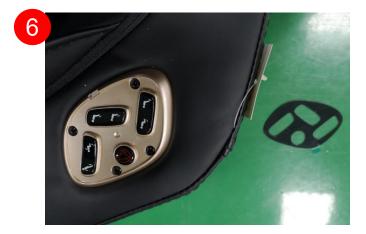


disassemble Bluetooth PCB disassemble adapter plate

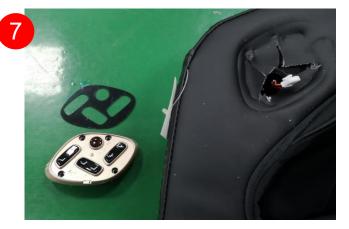




Pry off the key board assembly along the edge



remove 4 screws



disconnected the terminal and remove the control

EC-7513A massage chair service guide

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#### bending a small cable tie



open the horn box



#### cable tie through hole position

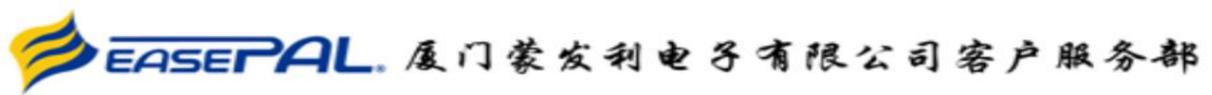


horn EC-7513A massage chair service guide



#### Pulling out trim, remove 4 screws





#### 3.6, disassembly of inner left side panel



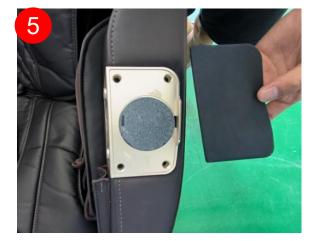
position of the usb charge pcb



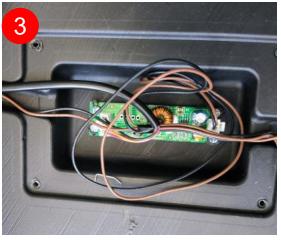
remove the silicone pad



remove 4 screws



remove 4 screws EC-7513A massage chair service guide



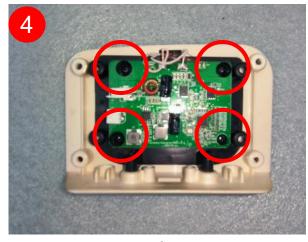
the USB charge pcb



disconnected the terminal, remove 2 screws <sup>24</sup>



disconnected the terminal, remove the USB base PCB



remove 4 screws

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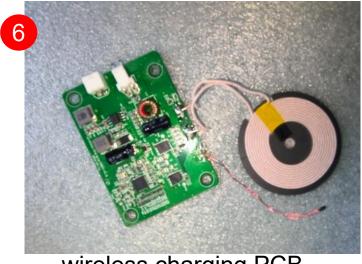
remove the veneer



separate the wireless charging PCB



remove 2 screws

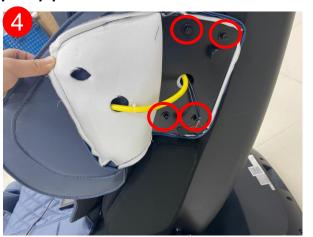


wireless charging PCB

## 参EASEPAL。厦门蒙安利电子有限公司客户服务部 3.7、disassembly of shoulder air bag



unzip zipper, discontent air hose



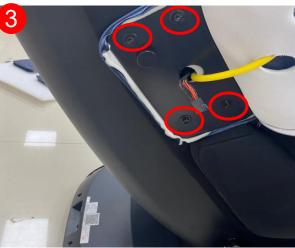
remove 4 screws, remove left EC-7513A massage chair service guide



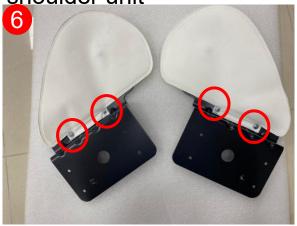
unzip zipper, discontent air hose



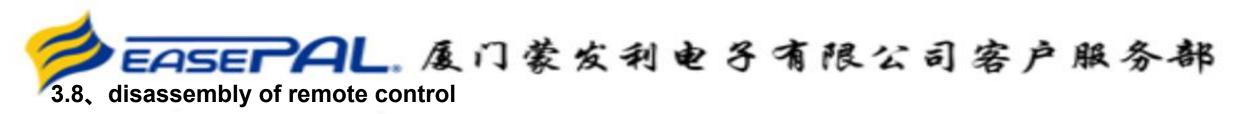
shoulder unit 第26页



remove 4 screws, remove right shoulder unit



remove the screws and remove air bag

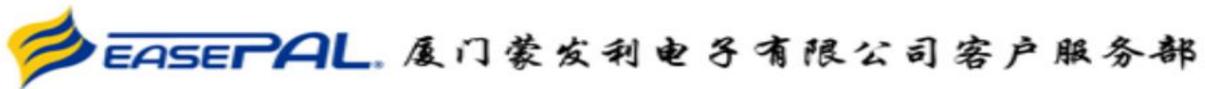






cut cable tie, discontent the terminal

remote control



#### 3.9, disassembly of the side seat







discontent air hose remove 2 screws, remove left side seat

#### discontent air hose



remove 2 screws, remove right side seat





Remove the two flaps to replace the left and right side airbags and leather covers

EC-7513A massage chair service guide

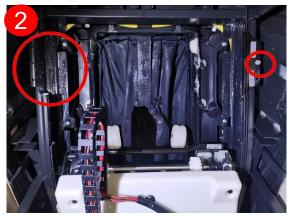
open the cover

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#### 3.10, disassembly of mechanism



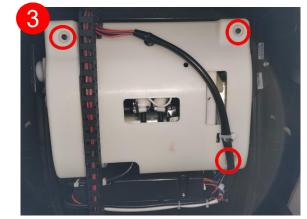
remove rear cover



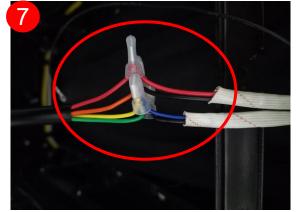
move down mechanism
Remove the one flap (Leave a
screw fixing the flap here)



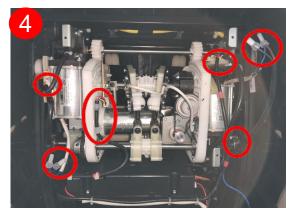
cut the heat shrinkable sleeve



move mechanism to Topmost, remove the 3D movement cover



discontent the terminals



discontent the terminals



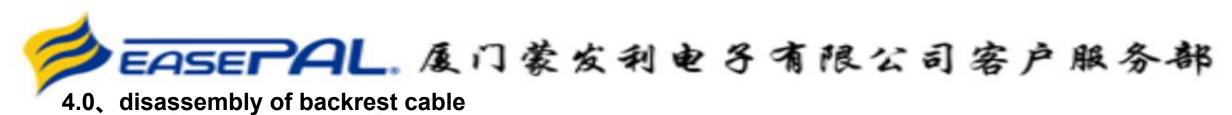
Press the movement, remove one screw 1, remove the right baffle (pay attention to the movement falling) and take out the movement assembly



remove 3 screws

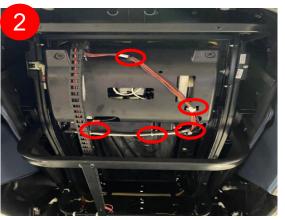
EC-7513A massage chair service guide

第29页





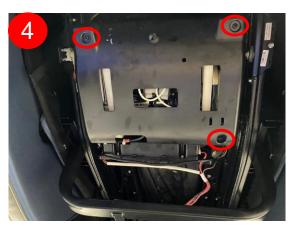
remove rear cover



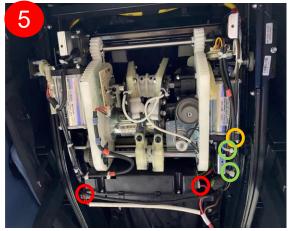
cut 5 cable tie



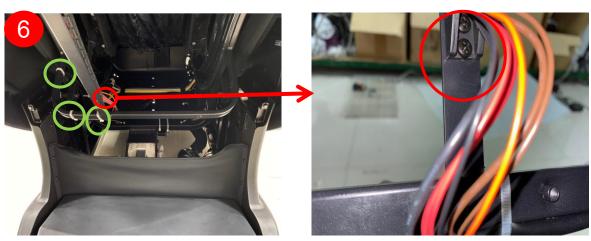
remove 2 screws



remove 3 screws and cover



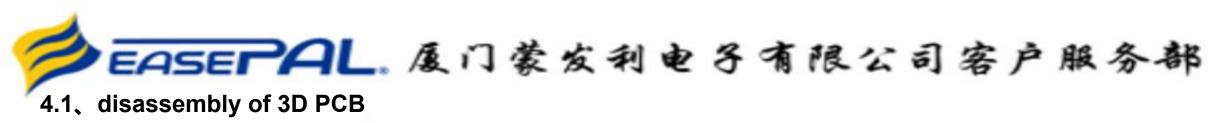
Pull out the red marked terminal, cut off the green marked buckle, and remove the Yellow marked ground screw EC-7513A massage chair service guide



Cut off the buckle marked in green and remove the two screws marked in red 第30页



Cut off the buckle, pull out the terminal (marked in red), remove the ground screw marked in yellow, and take out the back stringing





remove rear cover



remove 3 screws



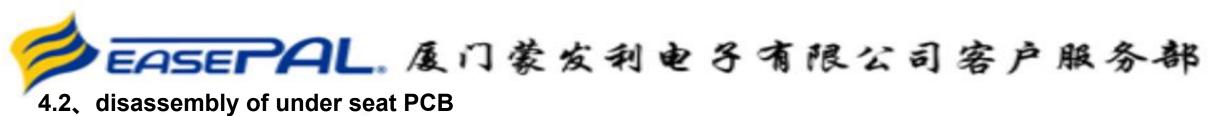
cut cable tie



remove the cover

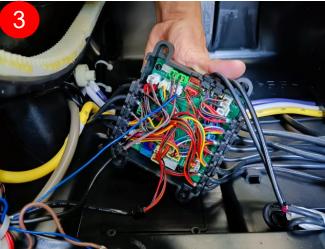


remove 3D PCB

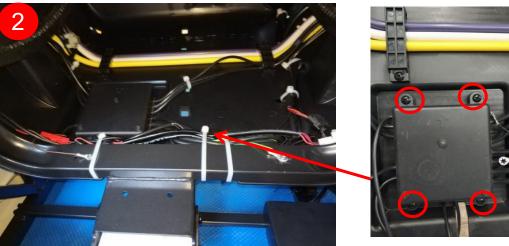




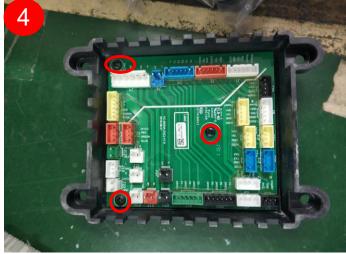
remove rear cover



#### discontent all terminals EC-7513A massage chair service guide



remove 4 screws and take down the cover



remove 3 screws and remove the PCB

第32页

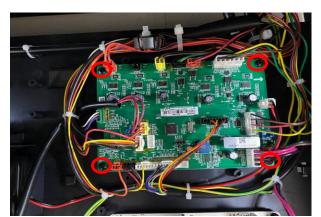
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4.3, disassembly of inner main PCB box

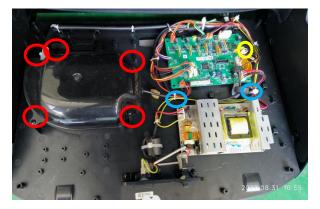


disassemble the cloth block

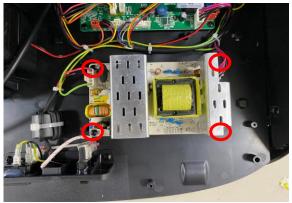




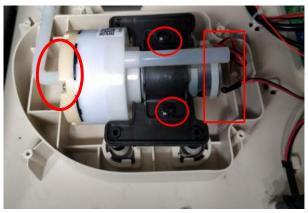
disassemble main PCB



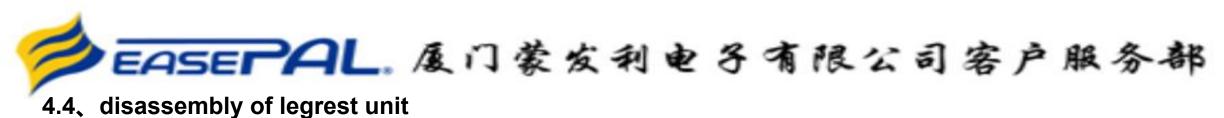
remove the cover nad discontent terminal



disassemble power PCB



remove 2 screws, cut cable tie, remove air pump



unzip the zipper



Remove the legrest in the direction of the arrow EC-7513A massage chair service guide

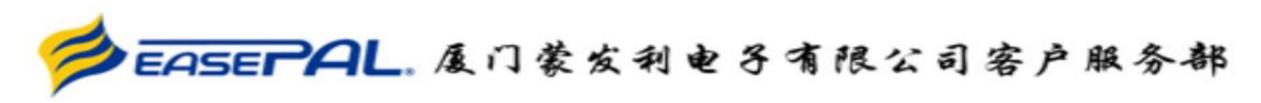


remove the stopper



disconnected the terminal and air hose, remove the legrest

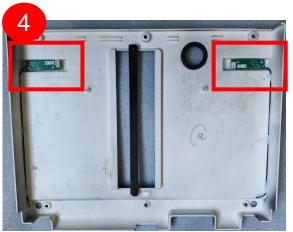
第34页



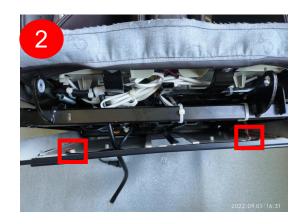
#### 4.5, Disassembly of upper leg assembly



remove 6 screws



Anti pinch PCB EC-7513A massage chair service guide



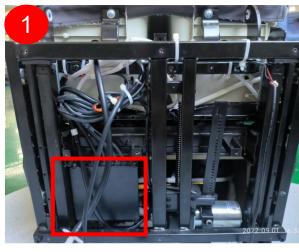
disconnected 2 terminals



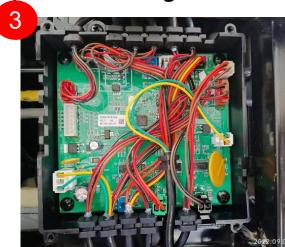
rear cover

remove 2 screws

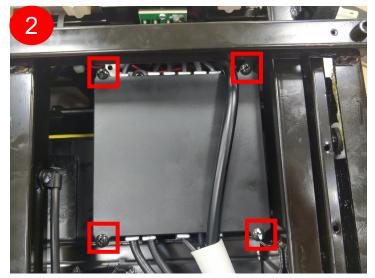
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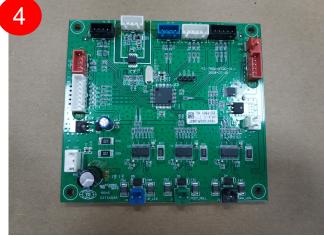
position of legrest PCB



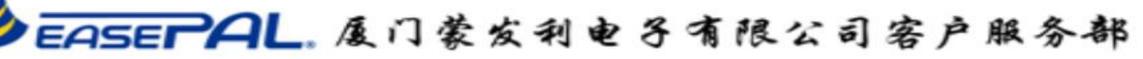
discontent all terminals, remove 4 screws EC-7513A massage chair service guide

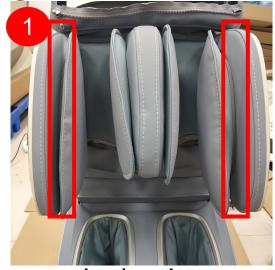


remove 4 screws



remove legrest PCB





unzip the zipper



disconnected the terminal



remove 3 screws

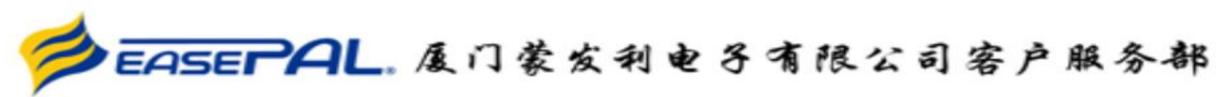


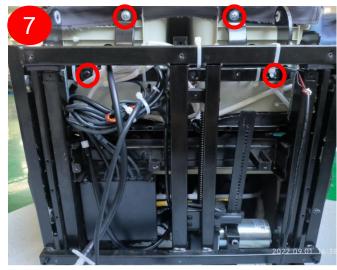
side cover of upper legrest



Anti pinch PCB



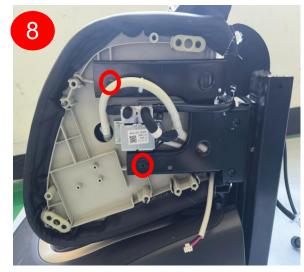




# remove the screws



unzip the zipper



## remove the screws



disconnected the terminals and air hose



#### remove the screws



remove upper legrest<sub>3页</sub>



remove the screws fixing the cover



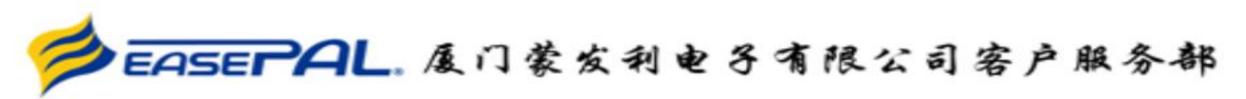


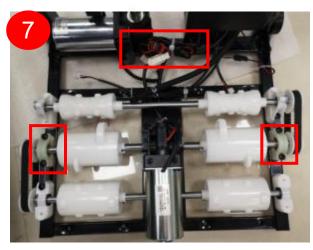


Iower legrest



remove lower legrest and we can replace the air bag

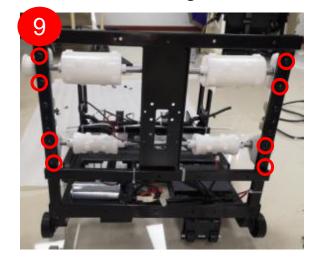




remove the screws fixing the middle roller



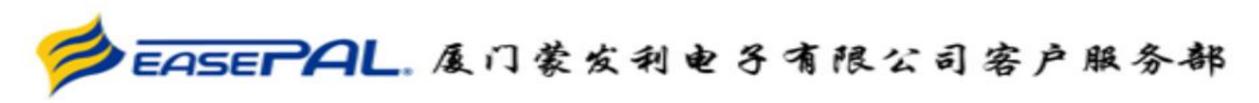
remove the middle roller unit







remove front and back roller

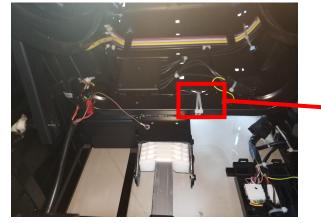


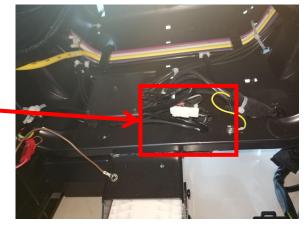
## 4.7、 Disassembly of legerst actuator

a.Remove the legrest

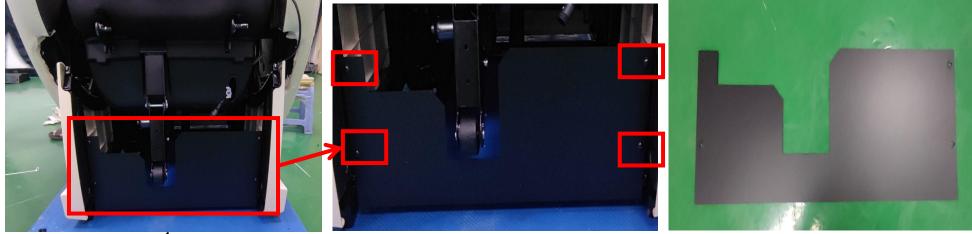


remove 4 screws





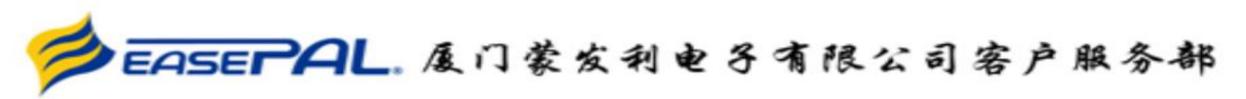
cut cable tie and disconnected the terminals

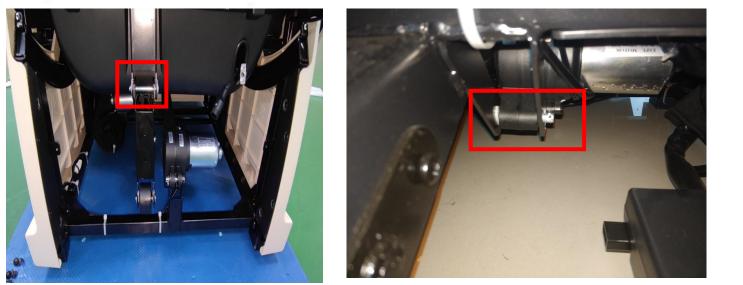


remove 4 screws

remove front board

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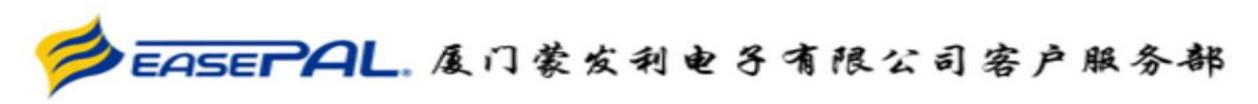






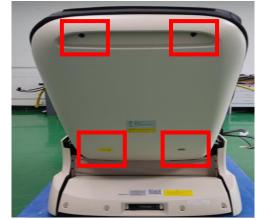


legrest actuator

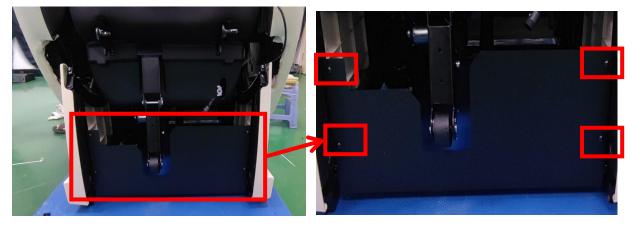


# 4.8、 Disassembly of backrest actuator

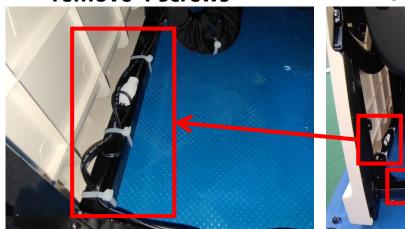
a.remove legrest



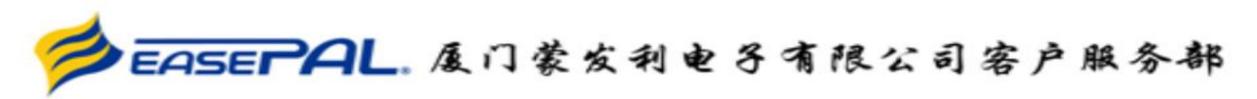
remove 4 screws

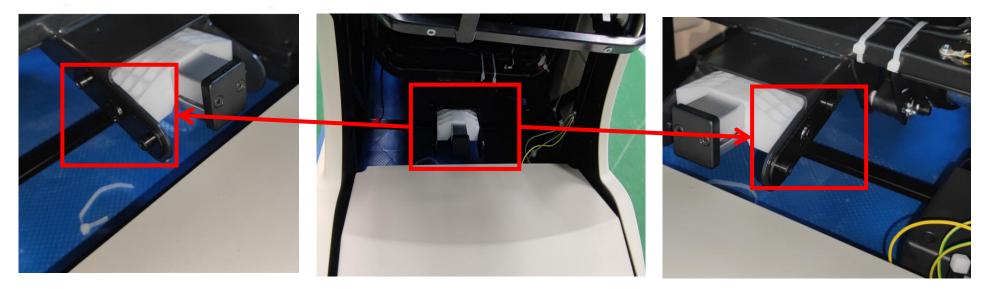


remove 4 screws



disconnected the terminal of backrest actuator, remove the pin and shaft





remove the screws

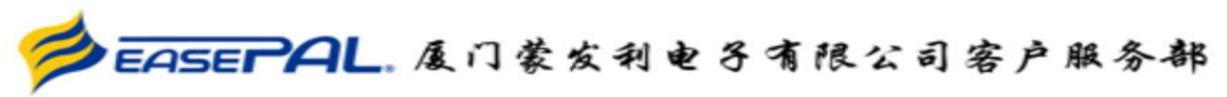


### 1, error code:

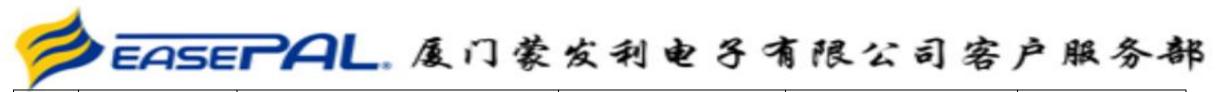
No.	phenomenon	problem description	steps of shooting the trouble	remark
01	remote control tested any key pressed more than 50 seconds	7 1.one of the KEY has been blocked.	1.check the key of the remote control	turn on the chair
02	remote control did not connec		-	turn on the chair
03	backrest signal is abnormity	well connected	1.check the connector of backrest wire 2.replace the backrest wire	turn the power
04	rolling signal is abnormity	1.The connector of the backrest wire is not well connected 2.rolling counting sensor broken	1.check the connector of backrest wire 2.rolling counting sensor broken	turn on the chair
05	side panel tested any key pre more than 40seconds	essed1.one of the KEY has been blocked.	1.check the key of the side panel	turn on the chair

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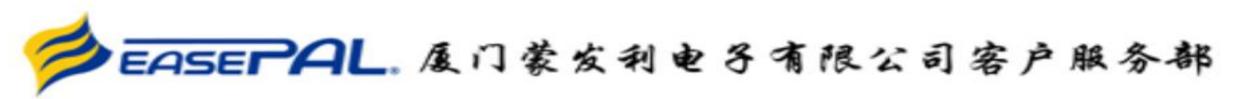
06	leg re	est tested more than 4 seconds	1. connector of leg rest wire not well 2. wire of leg rest broken	1.check the connector of leg rest wire 2.replace the wire of leg rest	turn the power
07	tested signal	more than 2 wideth inspection	broken 2 wideth inspection wire is	hoard	start the rolling function
08	more t wide si	than 5 seconds did not tested the	2. the wire connect to the wideth inspection board is disconnected		enter auto-check model
09	more f middle	than 5 seconds did not tested the	2. the wire connect to the wideth inspection board is disconnected		enter auto-check model
10 7513A ma	more finarrow	than 5 seconds did not tested the signal	2. the wire connect to the wideth inspection board is disconnected		enter auto-check model



				1
11	more than 10 seconds didn't tested kneading signal	1.Main PCB is broken	1.replace main PCB	enter auto-check model
12	when not kneading but the widet inspection signal still can be tested	h 1.Main PCB is broken	1.Change PCB	enter auto-check model
13	tested signals from up & down limit sensor at the same time.	<ol> <li>up &amp; down limit sensor are broken</li> <li>backrest wire is disconnected.</li> </ol>	<ol> <li>Change up &amp; down limit sensor</li> <li>check whether the backrest wire is well connected</li> </ol>	enter auto-check model
14	more than 40s didn't tested the signal from the up limit sensor	disconnected	sensor 2.check whether the backrest wire is well connected.	enter auto-check model
15 7513A massa	height counting signal error ge chair service guide	1.the counting sensor of the rolling motor is broken 2.backrest wire is disconnected 第47页	<ol> <li>change the counting sensor of the rolling motor.</li> <li>check whether the backrest wire is well connected.</li> </ol>	enter auto-check model



	16	after tested signal from up limit sensor then tested signal from down limit sensor in 2 seconds.	1.down limit sensor is broken		enter auto-check model
	17	more than 40s didn't tested the signal from the down limit sensor		sensor 2.check whether the backrest wire is well connected.	enter auto-check model
	18	after tested signal from down limit sensor then tested signal from up limit sensor in 2 seconds.	1.upper limit sensor is broken.	sensor	enter auto-check model
EC-	19 7513A ma	can't test signal from foot rest recline actuator guide	1. foot rest recline actuator is broken 2. foot rest actuator motor wire is disconnected 3. the signal wire of foot rest actuator is disconnected. 第48页		enter auto-check model



20	test signals from front sensor and rear sensor at the same time.	1.the 6 core signal wire is disconnected. 2.up & down limit sensor of the foot rest are broken	connected	enter auto-check model
21	didn't test signal from front sensor of the footrest more than 20 seconds.	the foot rest is broken 2.foot rest extending motor	6	enter auto-check model
22	After tested front sensor signal, then tested front sensor signal in 2.5 seconds.	1.the upper limit sensor of foot rest is broken		enter auto-check model
23	didn't tested rear sensor signal in 20 seconds	1. the upper limit sensor of foot rest is broken 2. foot rest extending motor is broken or the motor wire is disconnected.		enter auto-check model
24	Tested tront sensor signal in 2 5	1.the lower limit sensor of the foot rest is broken		enter auto-check model

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25	when start the backrest recline actuator, there is no counting signal for more than 2.5 seconds	<ol> <li>backrest recline actuator is broken</li> <li>backrest recline actuator wire is disconnected</li> <li>the signal wire of the backrest recline wire is disconnected</li> </ol>		enter auto-check model
26	when start the zero-gravity actuator, there is no counting signal for more than 2.5 seconds	broken	motor wire is well connected	enter auto-check model
27	The front and rear limit sensors are effective at the same time (3D mechanism)		limit sensor	turn the power
28	The signal of telescopic limit sensor is not detected by 10s telescopic opening clock (3D mechanisment) sage chair service guide		<ol> <li>Replace the telescopic</li> <li>limit sensor board</li> <li>Check the connection of telescopic limit detection</li> <li>line</li> <li>Replace the telescopic</li> <li>motor or wiring</li> <li>Check the telescopic</li> <li>limit light shield</li> </ol>	turn the power

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29	Abnormal movement telescopic counting signal (3D mechanisment)	<ol> <li>The telescopic counting sensor is broken</li> <li>Poor contact of telescopic counting line</li> </ol>	<ol> <li>Replace the telescopic counting detection board</li> <li>Check the connection of telescopic counting line</li> </ol>	turn the power
30	After the signal is detected by the telescopic limit sensor, the signal of the other telescopic limit sensor is detected within 2S (3D mechanismentnt)	1. The telescopic limit sensor is broken	1. Replace the telescopic limit sensor board1. Replace the telescopic limit sensor board	turn the power
31	side panel control did not connected	1.side panel control wire is broken or the side panel control is disconnected	1.reconnecte the side panel control or change the side panel control wire.	turn on the chair