# ROTAI 荣泰

# ROTAI S80 Massage Chair Maintenance Manual

Shanghai Rongtai Health Technology Co., Ltd.





# S80 Parameters



Product Parameters				
Picture		Specifications		
			Model	\$80
			Rated Voltage	220V~
			Power Consumption	160W
			Upright Size	(1680*775*1190 <sub>mm</sub> )
			Reclined Size	(1865*775*1050 <sub>mm</sub> )
			Package Dimension	Chair body: 1370*860*1290mm
				Footrest: 515*545*620mm
			Loading Qty	42PCS/40HC
			N.W.	120KG
13			G.W.	143KG
Neck Mechanism	No	Music	■Yes □No	
Back Mechanism	58C# Pressure sensitive mechanism	Bluetooth	■Yes □No	
Shoulder Scan	■Yes Hall sensing □No	Heating	■Back cushion (Carbon fiber)	□leg ∎foot
Mechanism Width Coverage	Kneading width ranges 4~15.5cm, Mechanism travel length reaches 820mm (to thigh)	Ambient Light	■Yes □No	
Track	L-style track/travel length reaches 820mm	Sync music	■Yes □No	1

# S80 Parameters

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Forward Sliding	Recline while sliding	Controller memory	■Yes □No	
Shoulder Width	580mm	function	■Yes □No	
Seat Width	510mm	Voice Control	Offline voice control	
Backrest Recline	Reclining by 130-155	Charging for Mobiles	■Yes/power 5 V 2 A	
Product Reclined Size	1865mm	Program Version		
Controller	Tablet controller	Auto massage	28 Auto Massage Programs: Chair Yoga,Slim Massage,High Heels,Womb Care,Sports Refresh,CEO Comfort,Tummy Care,Deep Release,Refreshing Nap,Extension,Energy Restore,Jmmune Boost,Growth Promotion,Intelligence Growth,Sports Refresh,Exams Relaxation, Brainwave Massage,Mindfulness Meditation,Breathing Improvement,Soul Trip,Binge Watching,Sweet Dreams,Long Sitting,Fatigue Recovery,Sore Relief,Neck & Shoulder,Back & Spine,Waist & Hip	
Controller Organizer	Pouch Slot organizer			
Phone Stand	□Yes No			
Foot Extension	Electric Spring			
	Legrest auto extension by 70mm Footrest auto extension by180mm			
Foot Roller	□one row ■ 2 rows □ 3 rows			
Airbags	Shoulder: 4PCS, 1PCS at each side (2 layer)	Manual massage	15 Massage Techniques: Kneading (Clockwise Kneading, Bightly Kneading, Interval Kneading), Sync (Clockwise, Circular, Interval), Tapping (Continuous, Rhythmic, Variable- frequency), Shiarsu (Regular, Tui Na, bone cracking) Knocking (Short,	
	Arm: 24PCS, 12PCS at each side (2 layer)			
	Hips: 4PCS, 1PCS at each side (2 layer)		Medium, Long)	
	Legs: 20PCS (2 layer)		Part: Whole, partial, point	
	Feet: 12PCS, 4PCS at foot side (2 layer), 4PCS at heel (single layer)		Width: wide, medium, narrow	
		Configure List	Airbag QTY: 40PCS	
Solenoid Valves	1 for seat,1 for shoulder,2 for armrest(a 3-way air valve at each side), Legrest: 2-way air valves, footrest: 2-way air valves, total 13 air valves		Air Valve QTY: 13PCS	
Air compressor	Power box:2PCS YX250A/24V		Motor QTY: 7PCS	
Leather	CXP series PU leather		Air compressor: 2PCS	
APP Control	■Yes □No	1	Actuator: 2PCS	

# S80 How to Enter Engineering Mode







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荣奏商城

**Click into** 

自动按照

自定义按摩

喜马拉那 臣命学

BC

手动按摩 气压拉原

203

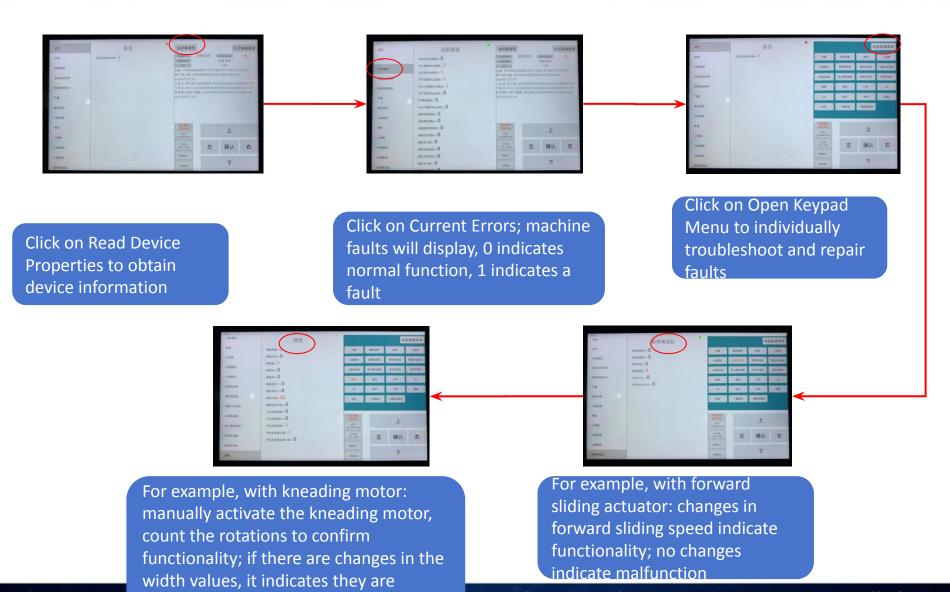
Engineering Mode Homepage



Select MAC address and click 5 times to enter Engineering Mode

## **Troubleshooting Example**





functioning well.

# Legrest Disassembly









## Fig. 1

Pull open the marked red zipper as in Fig. 1

Fig. 2

Remove the marked blue buckle as in Fig. 2

## Fig. 3

Unplug the marked purple component and air hose as in Fig. 3

# Armrest Outer Cover Disassembly





Fig. 1

Remove the rear cover's marked red 4 screws, and take off the rear cover as in Fig. 1





Pry open the upper cover from under the red marked buckle as in Fig. 2



Fig. 3

Remove the upper inner cover's marked purple 4 screws as in Fig. 3



Fig. 4

Remove the 7 screws of the inner cover of the armrest marked with blue as in Fig. 4



Fig. 5

Remove the 2 screws at the front end of the armrest marked green as in Fig. 5 to remove the outer cover

## **Armrest Upper Inner Cover Disassembly**





## Fig. 1

Remove 14 screws each marked red on the left and right sides, and one in the middle; cut the blue tie, unplug the connector, remove the purple marked screw to remove the upper inner cover

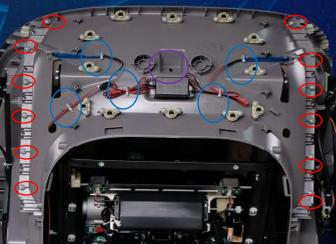




Fig. 2

Fig.

3

## **Power Box Disassembly**









## Fig. 1

Remove the red marked three screws on top of the rear footrest cover as in Fig. 1

## Fig. 2

Remove the red marked two screws on top of the power box; slightly push forward the red marked buckle on the power box cover, then remove the cover as in Fig. 2

## Fig. 3

Inside the power box are switch components, power board, filter board as in Fig. 3

# Footrest Cover Disassembly





Fig. 1

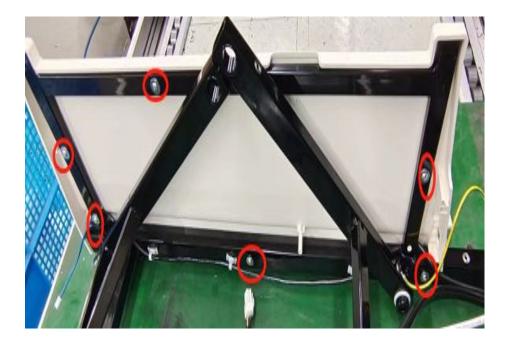


Fig. 2

Remove the two screws outside of the footrest cover as in Fig. 1

Remove the six inner screws of the footrest cover; then, remove the footrest cover as in Fig. 2

## Legrest Extension Unit Disassembly





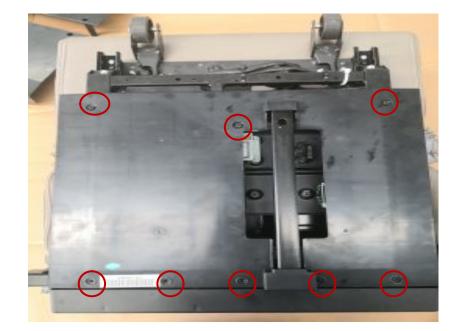




Fig. 1



First, remove the upper cover's marked red 4 fixed screws as in Fig. 1

Remove the lower cover's marked red 8 fixed screws as in Fig. 2 Fig. 3

First, remove 6 screws fixing the legrest extension unit, turn the extension belt, and remove the 4 fixed screws of the lower legrest as in Fig. 3

# **Backrest Frame Disassembly**



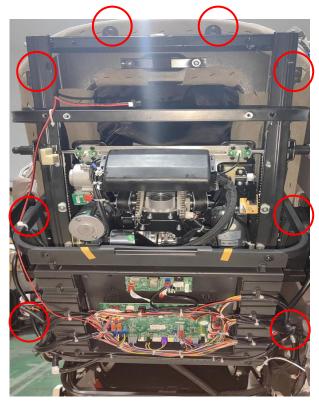


Fig. 1

Remove the 8 red-marked screws at the back of the backrest as shown in Fig. 1.

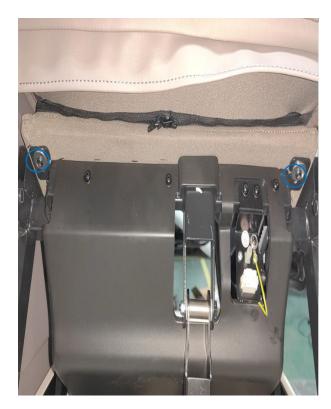
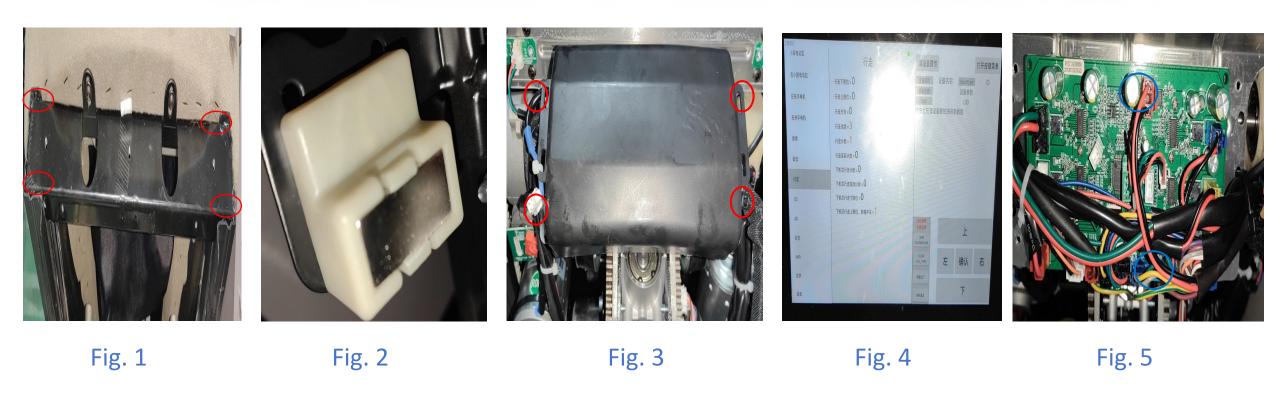


Fig. 2

Remove the 2 blue-marked screws at the front end of the backrest as shown in Fig. 2.

# Mechanism Assembly Disassembly

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Remove the 4 red-marked screws on both sides of the backrest crossbar clamp as shown in Fig. 1.

#### Remove the magnet on top of the backrest frame as shown in Fig. 2.

Remove the 4 red-marked screws on the mechanism cover as shown in Fig. 3. Enter the engineering mode, navigate to the walking section, and move the mechanism upwards as shown in Fig. 4. Cut the zip ties, unplug the blue-marked connector, and remove the mechanism as shown in Fig. 5. 荣泰更专业的按摩椅

## Armrest Button Pad Disassembly









Fig. 3

## Fig. 1

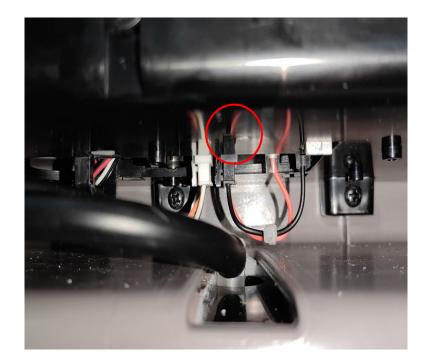
Peel off the two red-marked stickers as shown in Fig. 1.

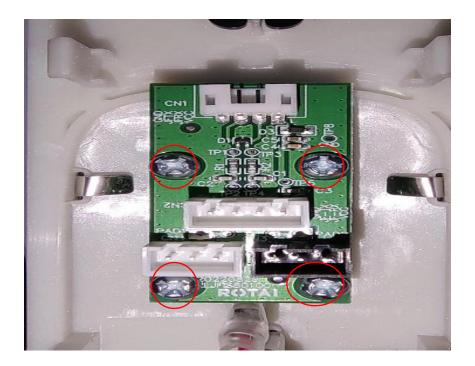
## Fig. 2

Remove the 4 red-marked screws as shown in Fig. 2. Remove the 12 red-marked screws, unplug the purple-marked connector as shown in Fig. 3.

# ECG Detection Sensor Board Disassembly







## Fig. 1

In the state of the armrest outer cover removed, use a tool to push up the red-marked buckle as shown in Fig. 1.

#### Fig. 2

Remove the 4 red-marked screws and unplug the connector as shown in Fig. 2.

# Aroma Placement



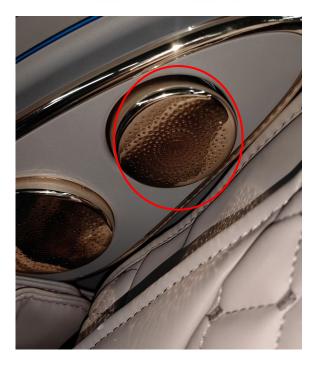


Fig. 1

Remove the aroma container from the red-marked right speaker position as shown in Fig. 1.



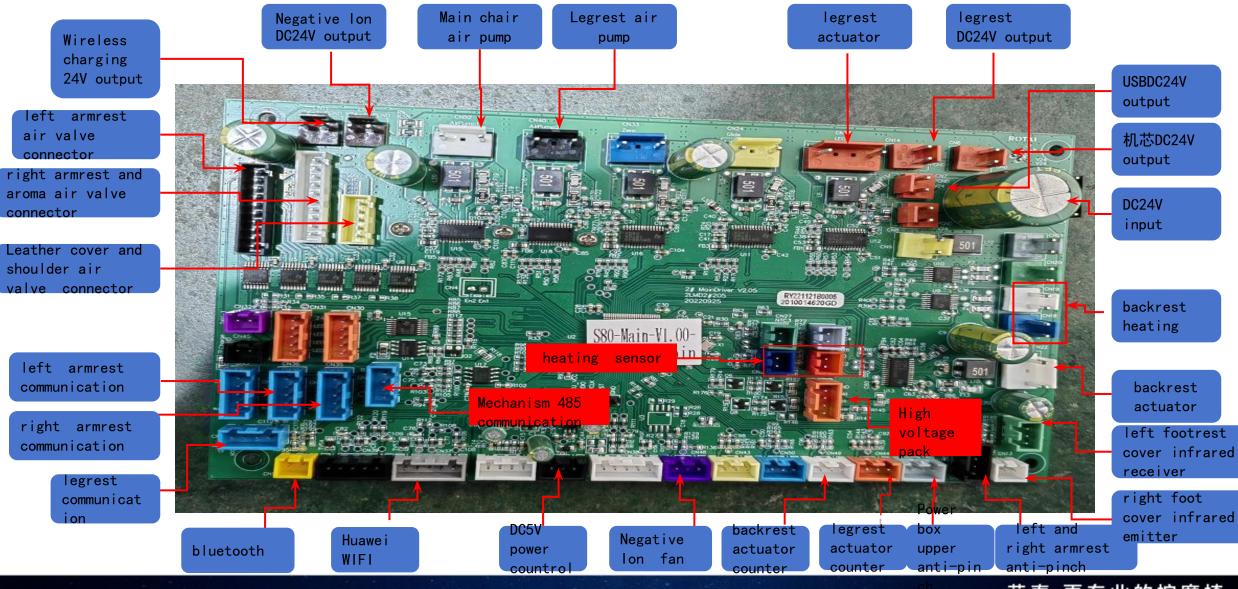
Fig. 2



Take out the aroma, find the corresponding number, and open the rubber pad to place it inside as shown in Fig. 2 and Fig. 3.

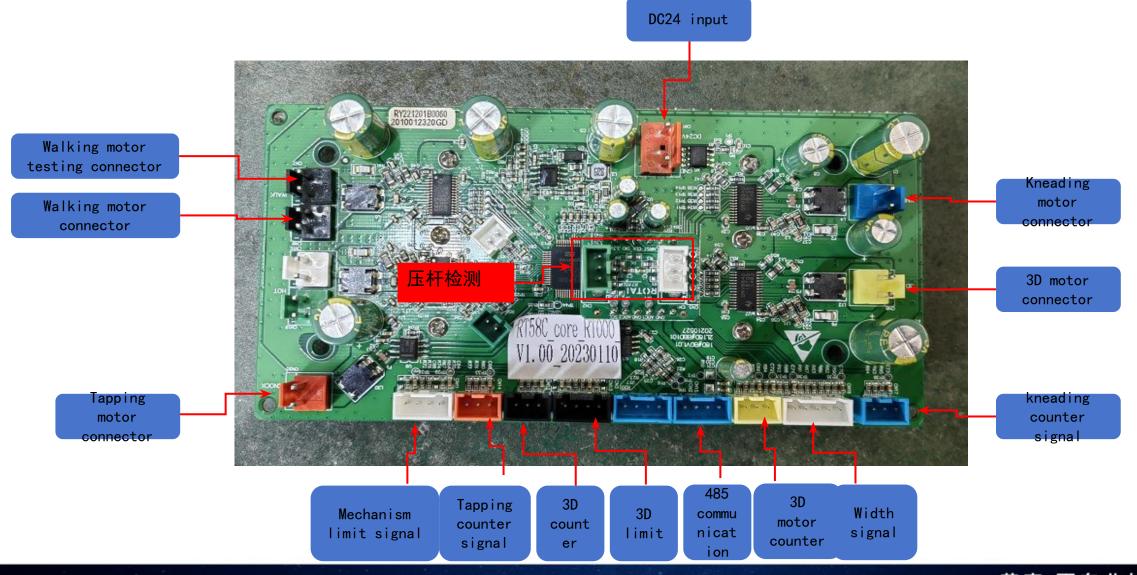
# S80 mainboard

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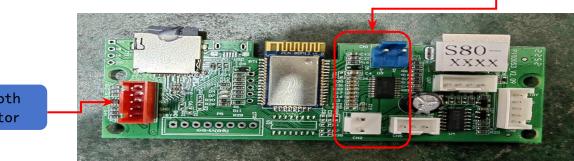
# S80 mechanism boar connectors



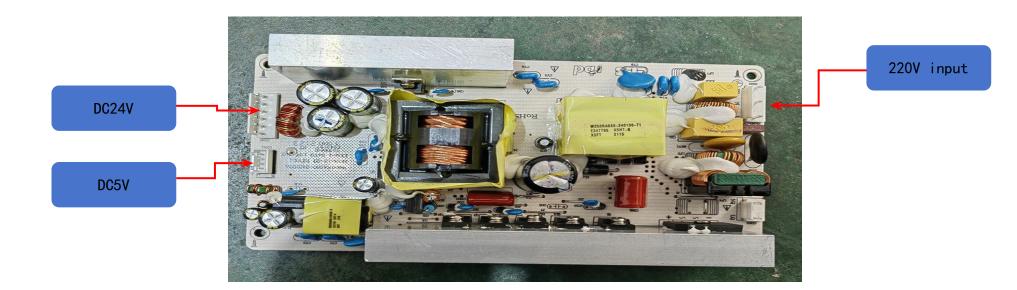
# Bluetooth board, power board



Left and right speakers connector

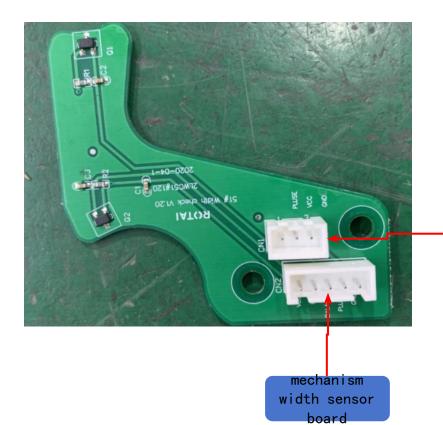


Bluetooth connector



# Width sensor board

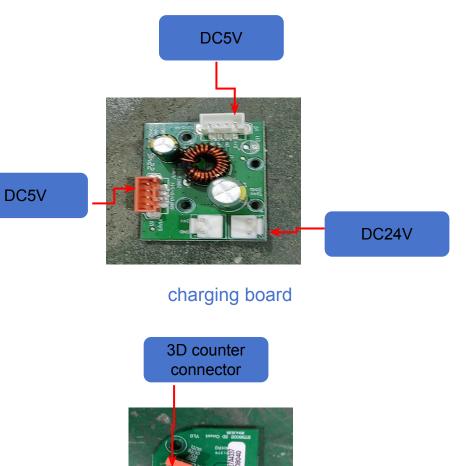




walking motor counter signal connector

# S80 3D counter board, push rod sensor board, button pad, charging board



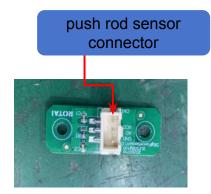


Control of the second s

3D counter board



button pad

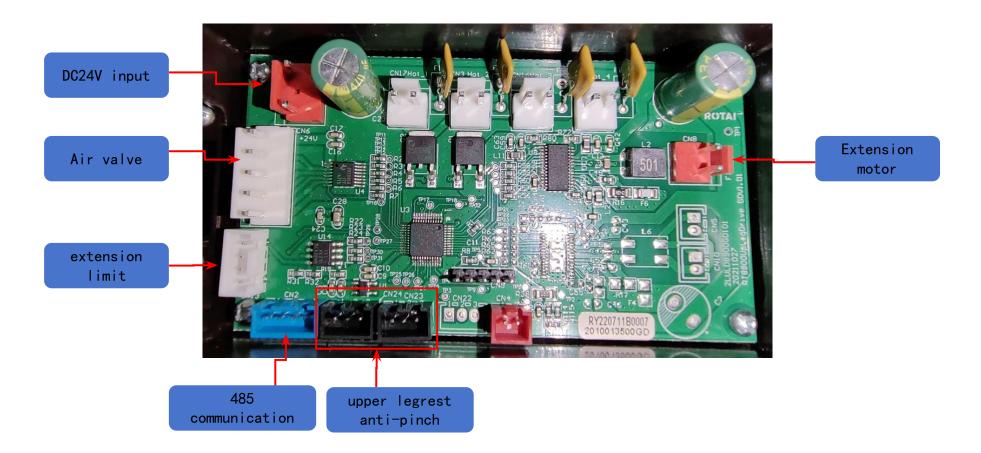


push rod sensor board

485 communication

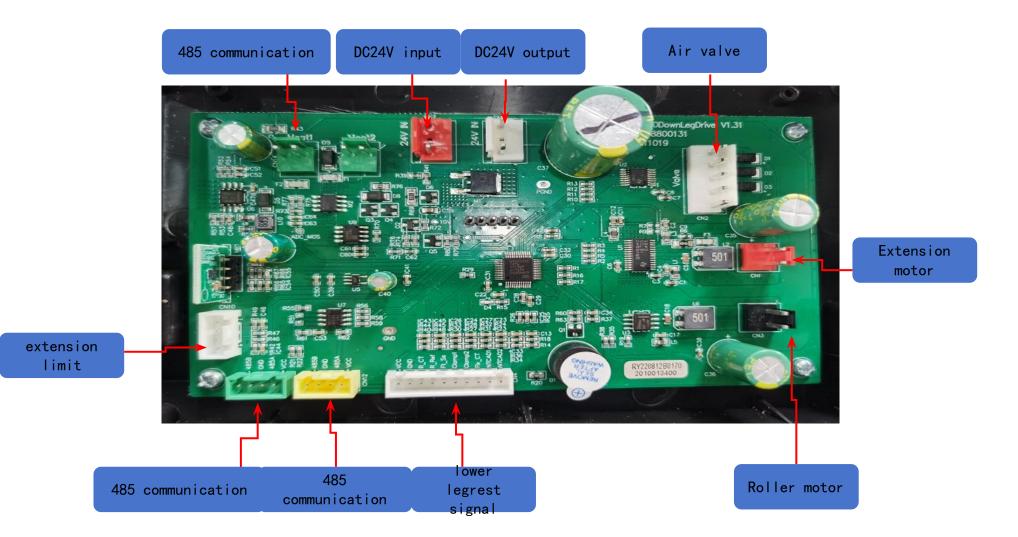
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# S80 upper legrest drive board



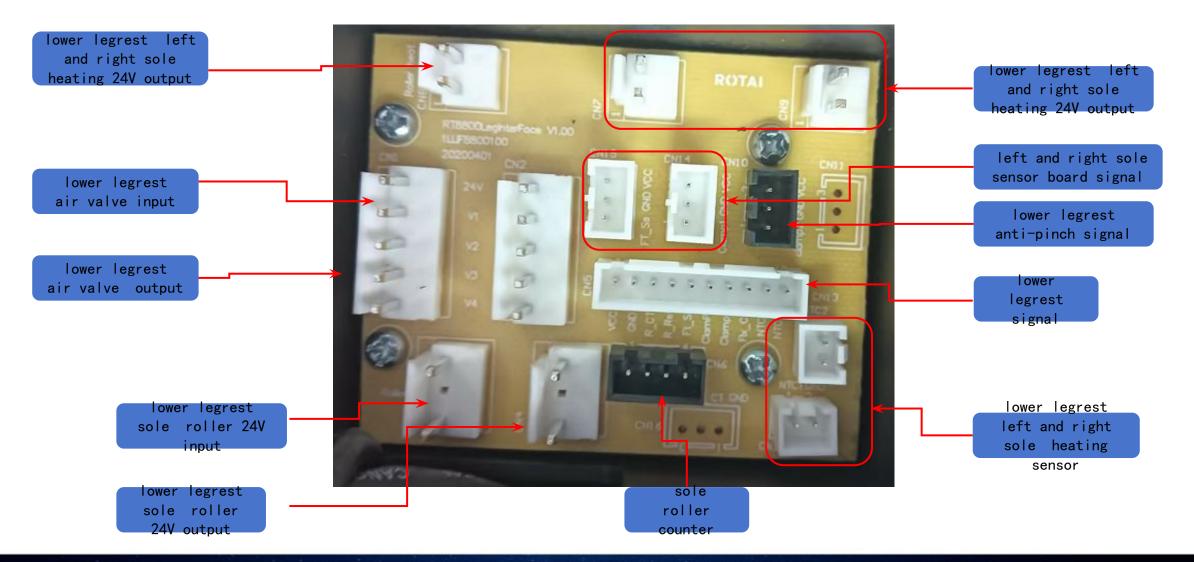
# S80 lower legrest drive board





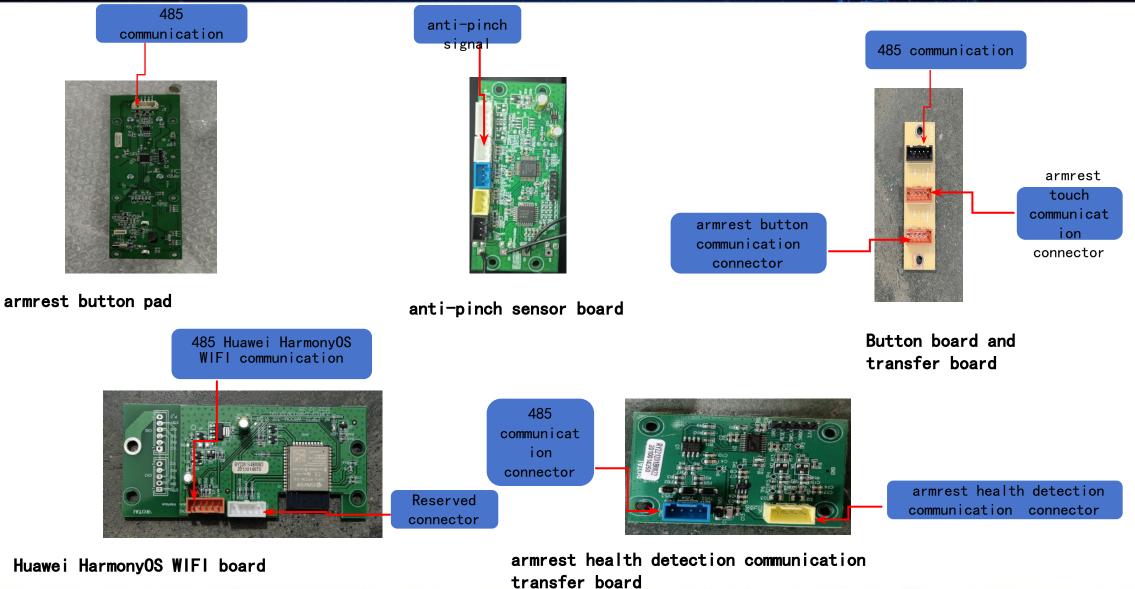
## Footrest transfer board

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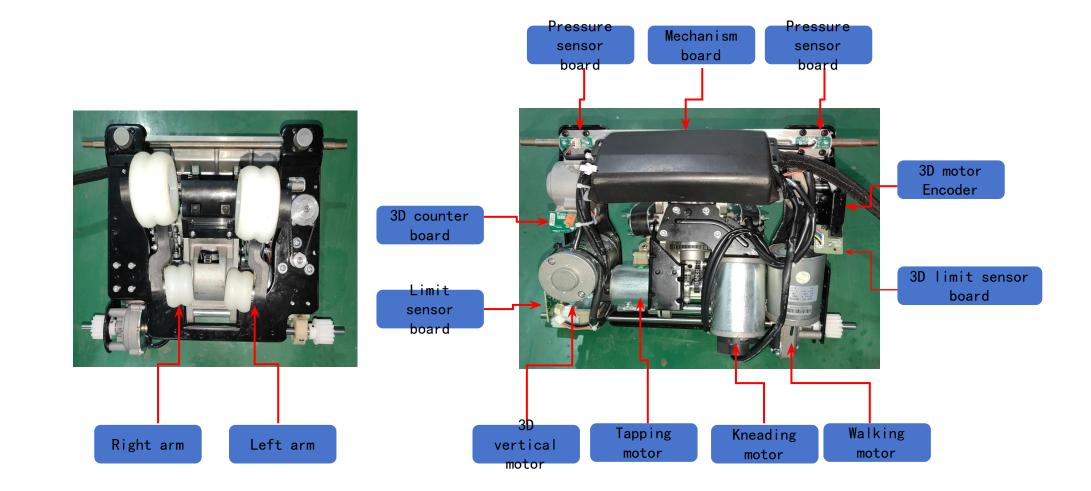
S80 armrest button pad, Huawei HarmonyOS WIFI board, armrest button transfer board, anti-pinch sensor board, armrest health detection communication transfer board





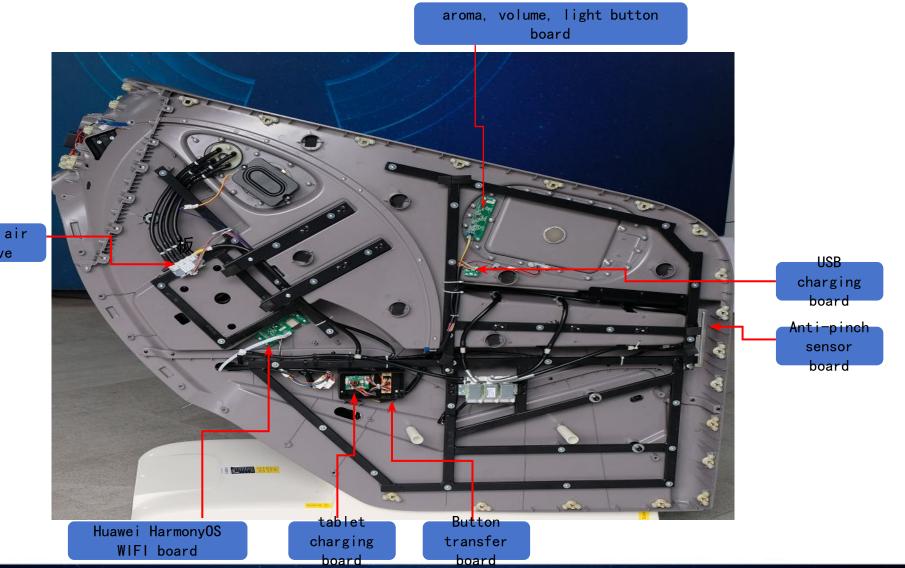
# S80 mechanism





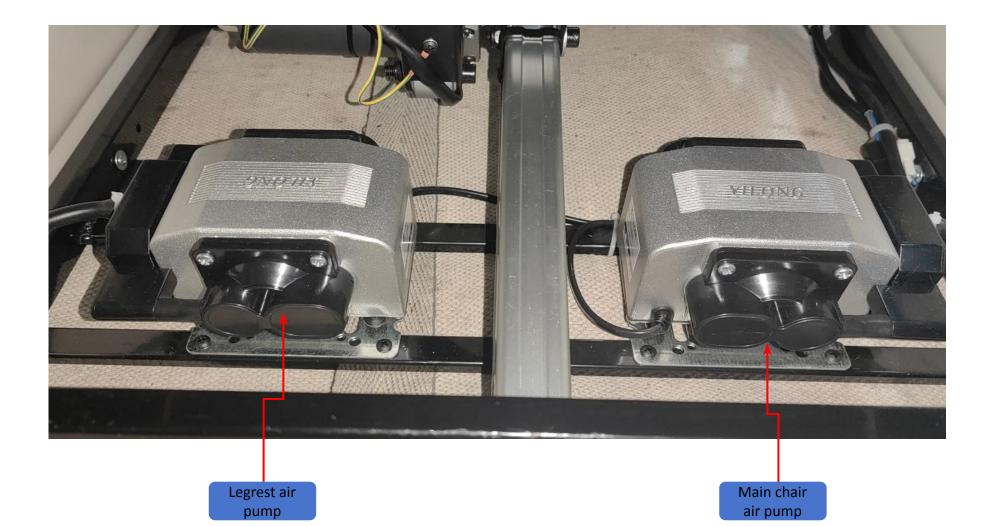
# right armrest





aroma air valve

# S80 air pump



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# Troubleshooting



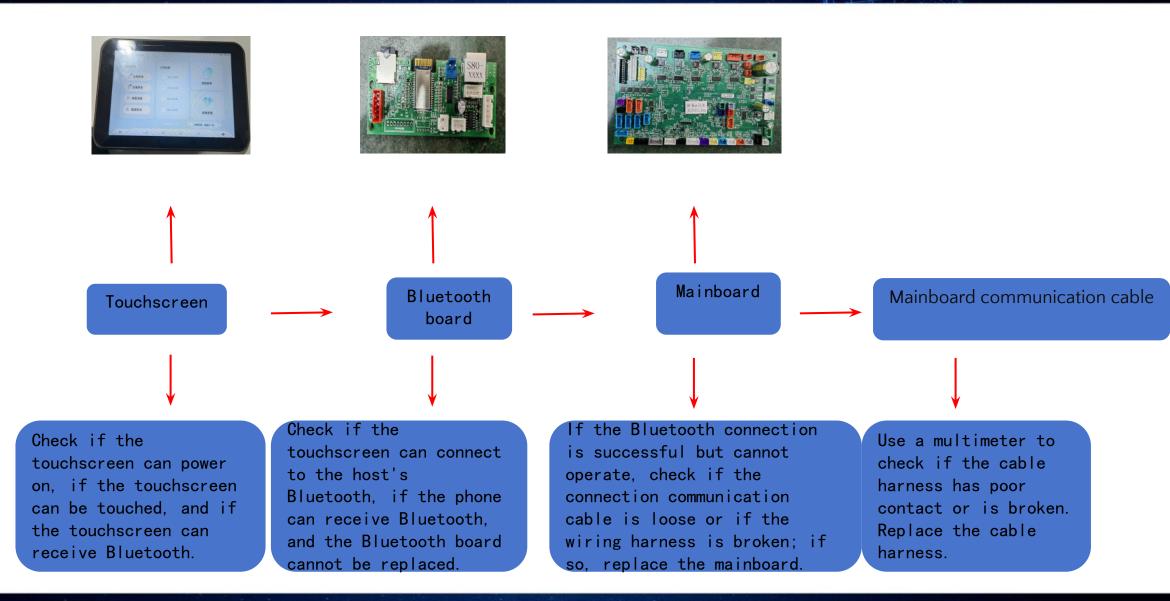
1. The touchscreen cannot control the massage chair

- 2. Burnt fuse
- 3. Kneading motor not working
- 5. Tapping motor not working
- 6. Walking motor not working
- 4. Mechanism cannot detect width
- 4. 3D vertical motor not working
- 8. Legrest actuator not working
- 9. Backrest actuator not working
- 10. Upper legrest extension not working
- 10. Lower legrest extension not working

- 11. Foot roller not working
- 12. Airbags not working
- 13. Massage chair error alert
- 15. Button pad not working
- 16. Health detection no results
- 17. Wireless charger not working
- 18. Aroma not working
- 19. Ambient light not working
- 20. Main chair heating not working
- 21. Leg heating not working
- 22. Body scan no results

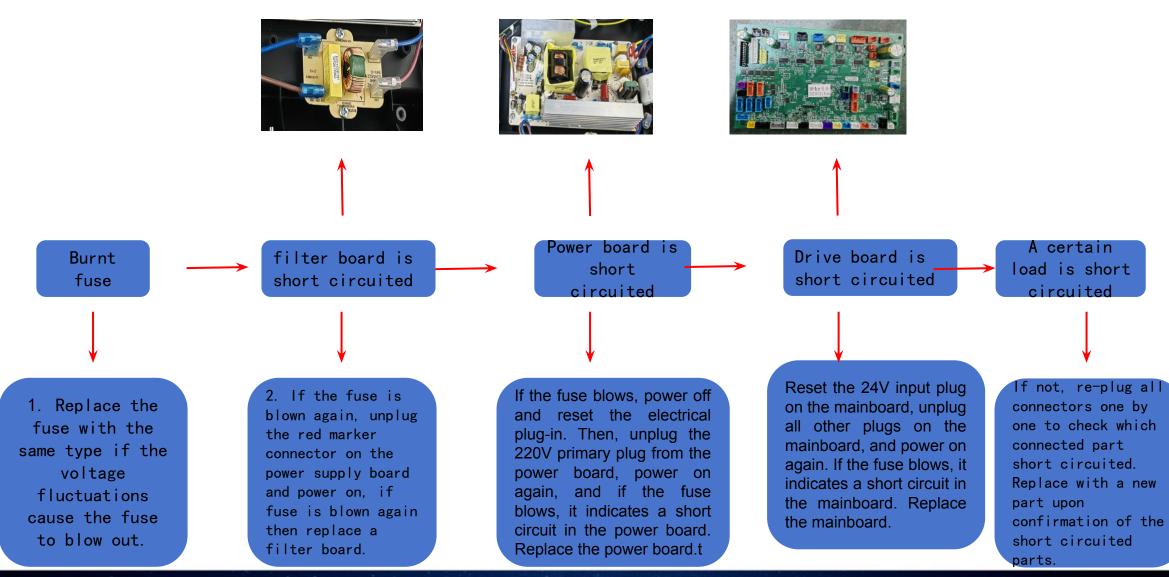
# **1.S80 touchscreen cannot control the massage chair**

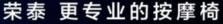
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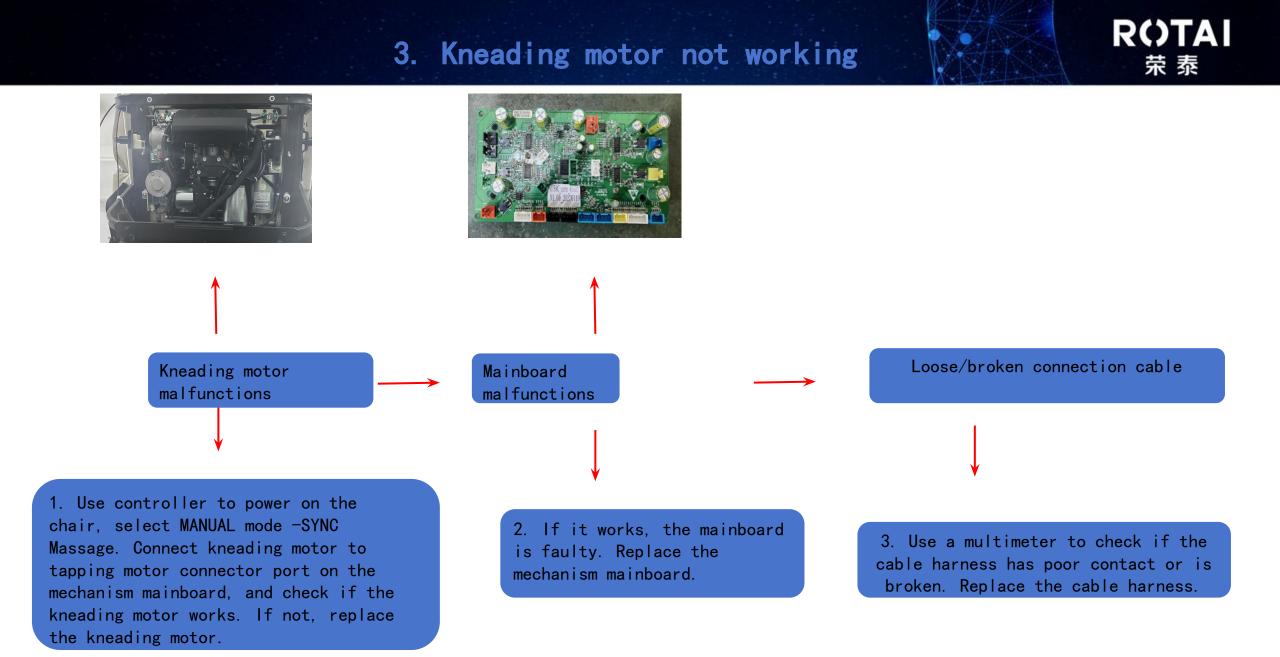


# 2. Burnt fuse

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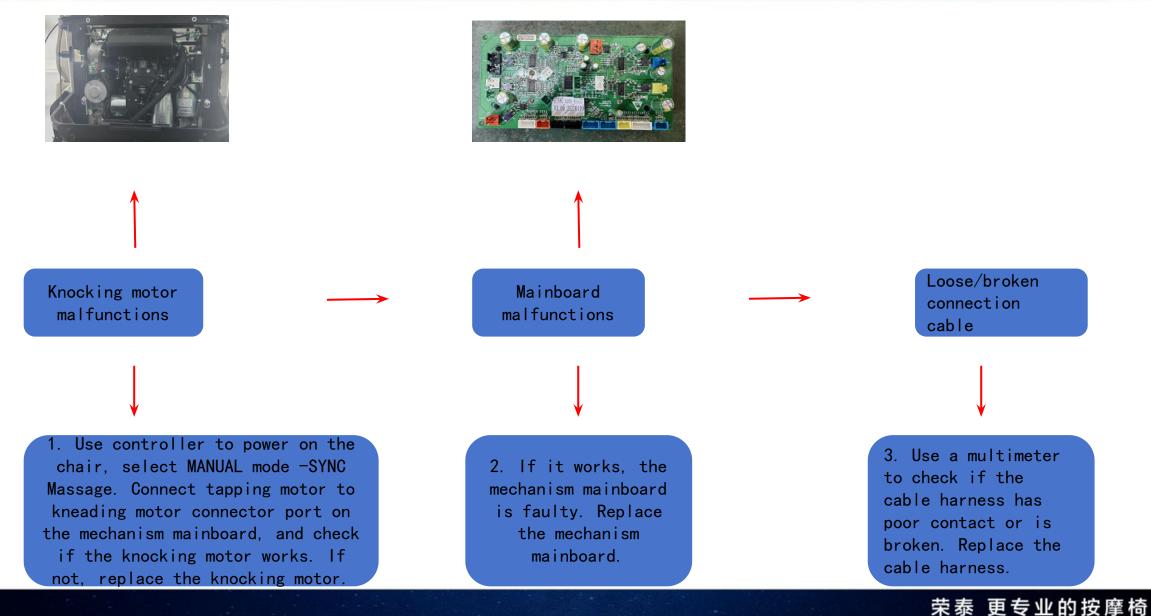






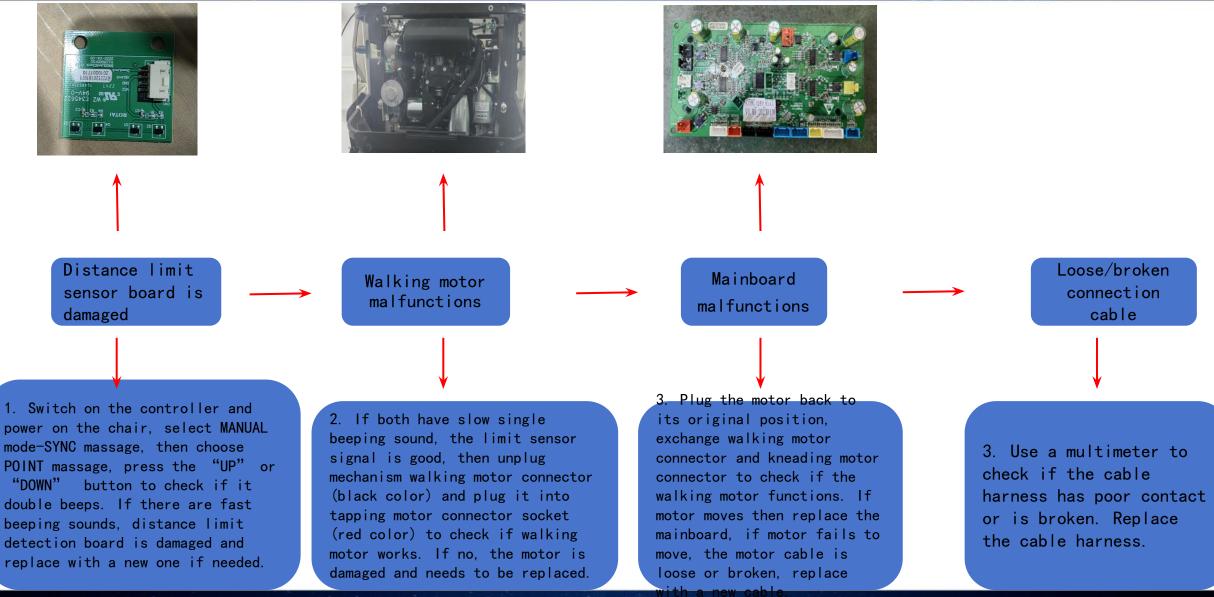
## 4.S80 Tapping motor not working



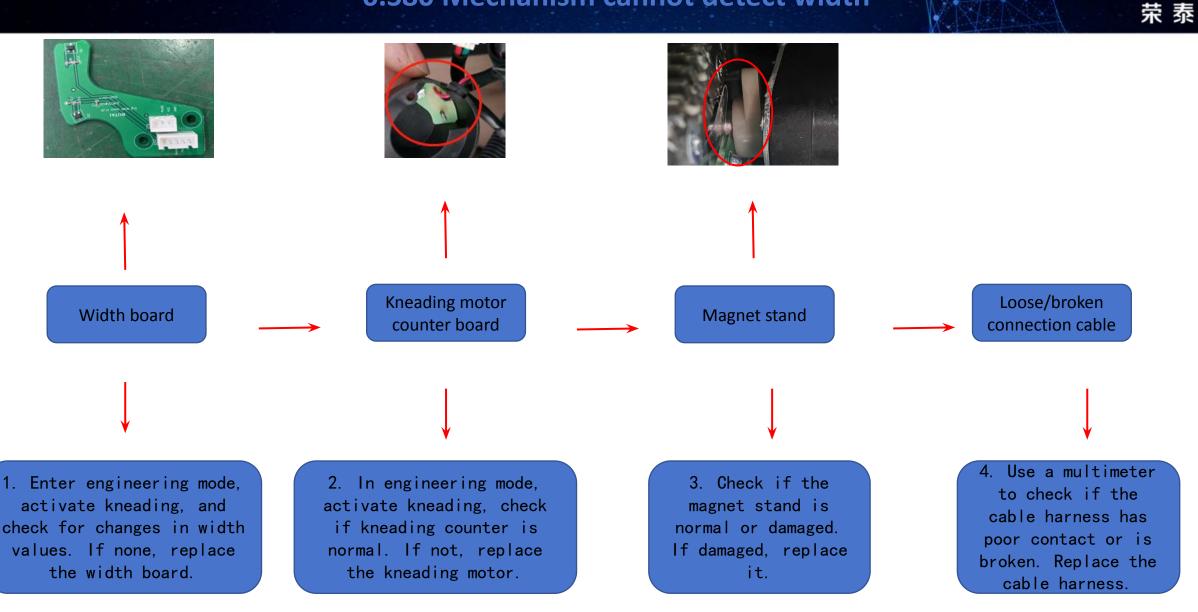


## 5. S80 Walking motor not working





## 6.S80 Mechanism cannot detect width

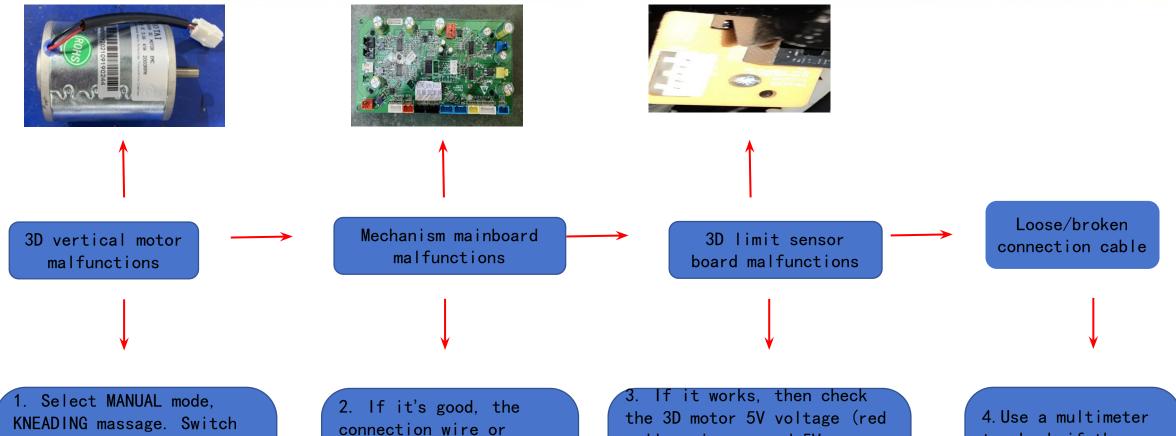


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## 7.S80 3D vertical motor not working

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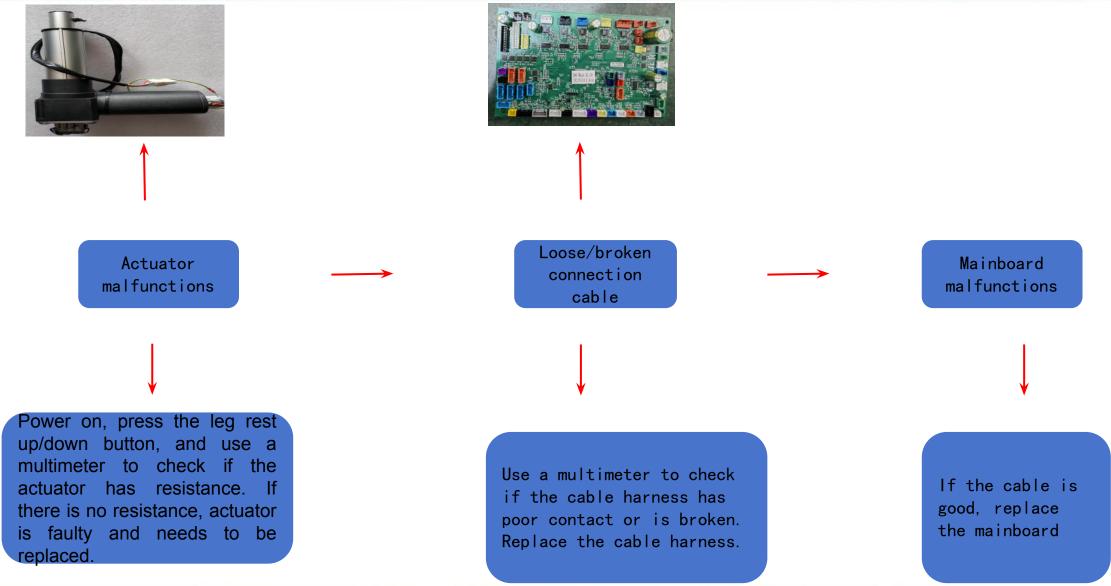


KNEADING massage. Switch 3D motor connector with kneading motor connector on the mechanism mainboard. If motor does not work, replace with a new motor. 2. If it's good, the connection wire or connection pin is damaged (use multimeter to test); If all are good, replace the mainboard. 3. If it works, then check the 3D motor 5V voltage (red yellow wire around 5V, yellow blue wire around 4.5V, yellow green around 4.5V). If output voltage is normal, then replace limit sensor board.

4. Use a multimeter to check if the cable harness has poor contact or is broken. Replace the cable harness.

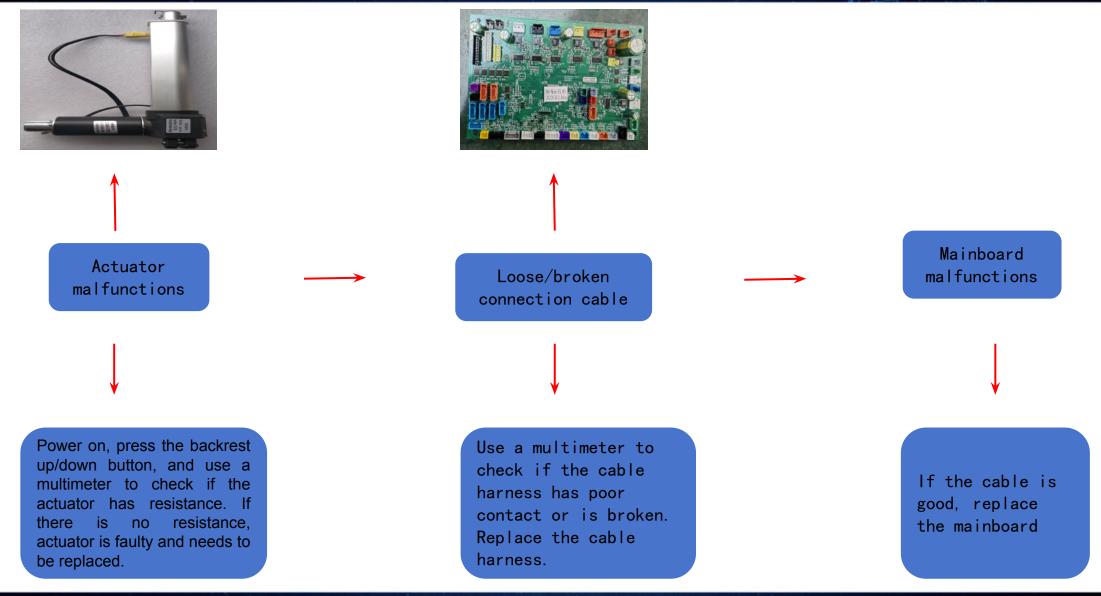
## 8.S80 Legrest actuator not working





## 9.S80 Backrest actuator not working

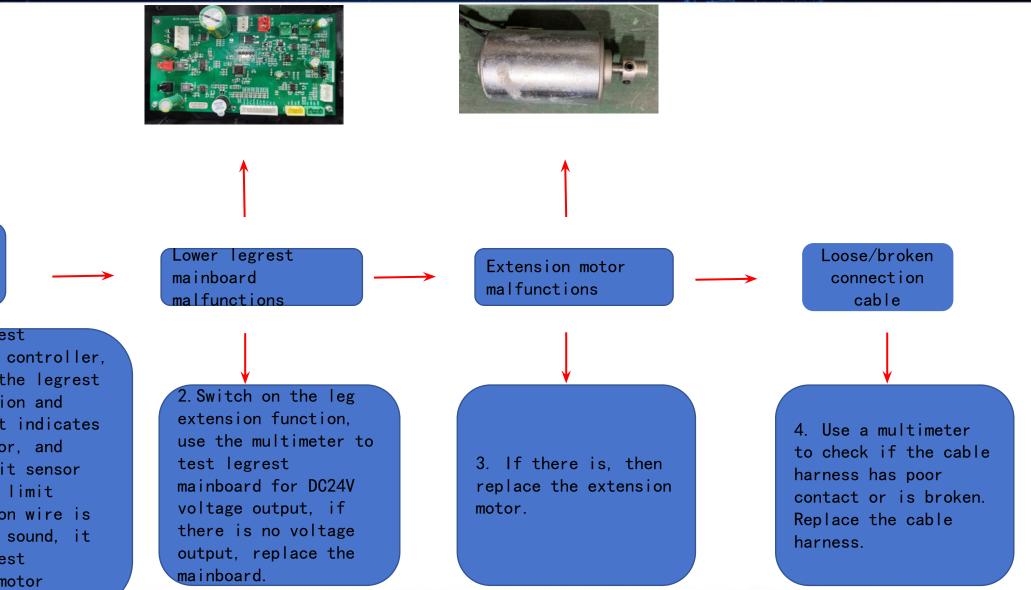
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## **10.S80 lower legrest extension motor not working**

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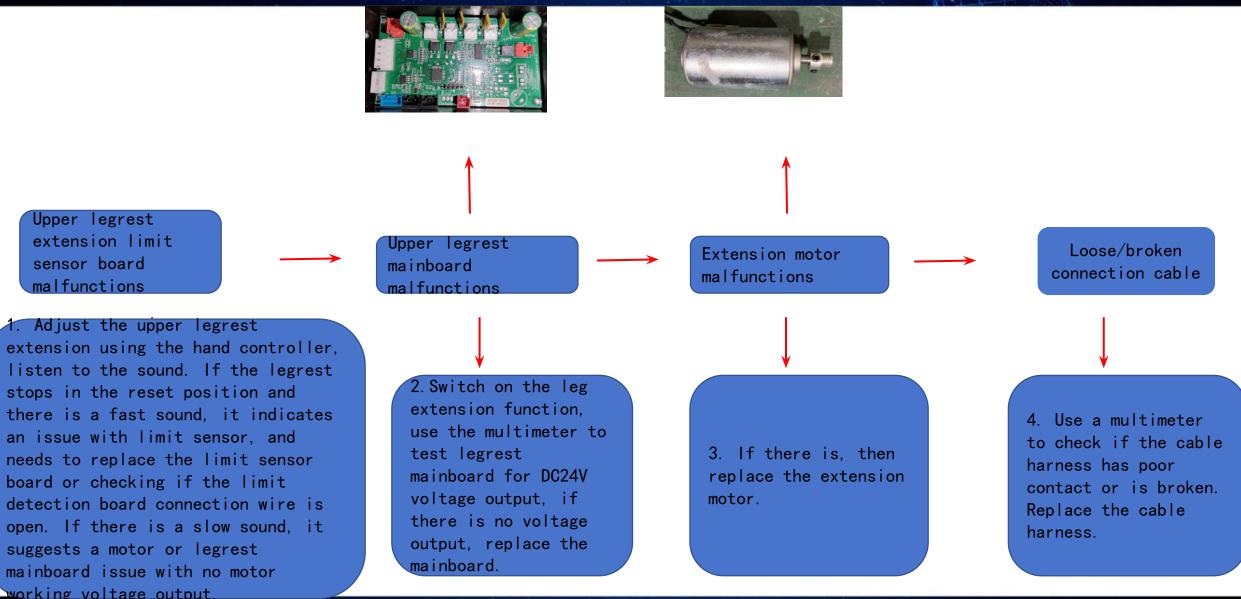


Legrest extension limit sensor board malfunctions

1. Adjust the lower legrest extension using the hand controller, listen to the sound. If the legrest stops in the reset position and there is a fast sound, it indicates an issue with limit sensor, and needs to replace the limit sensor board or checking if the limit detection board connection wire is open. If there is a slow sound, it suggests a motor or legrest mainboard issue with no motor working voltage output.

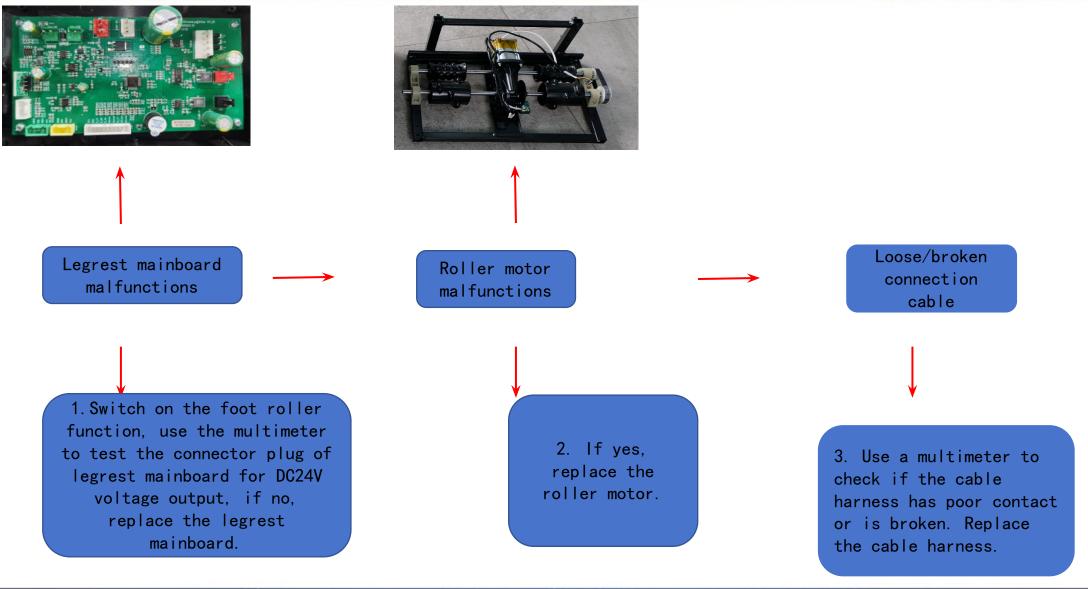
### 11.S80 upper legrest extension motor not working





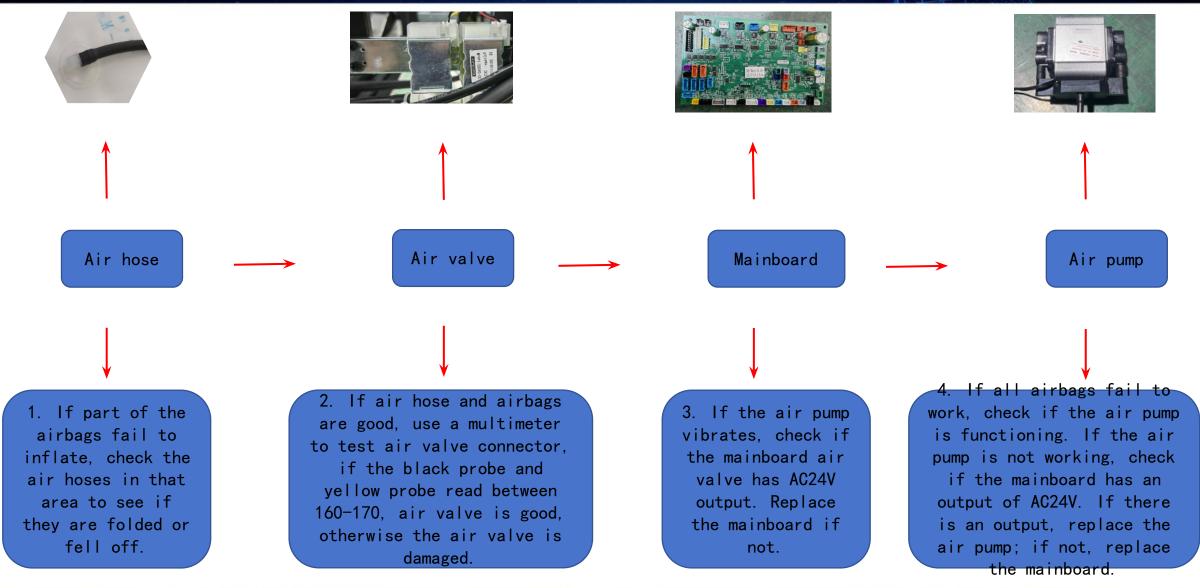
## **12.S80 Foot roller motor does not work**





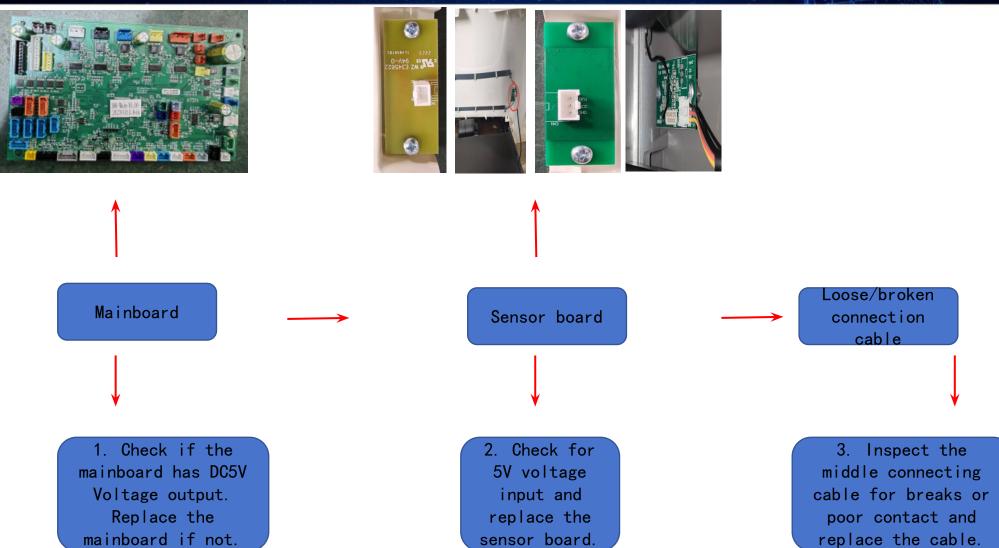
## 13. S80 Airbags not working

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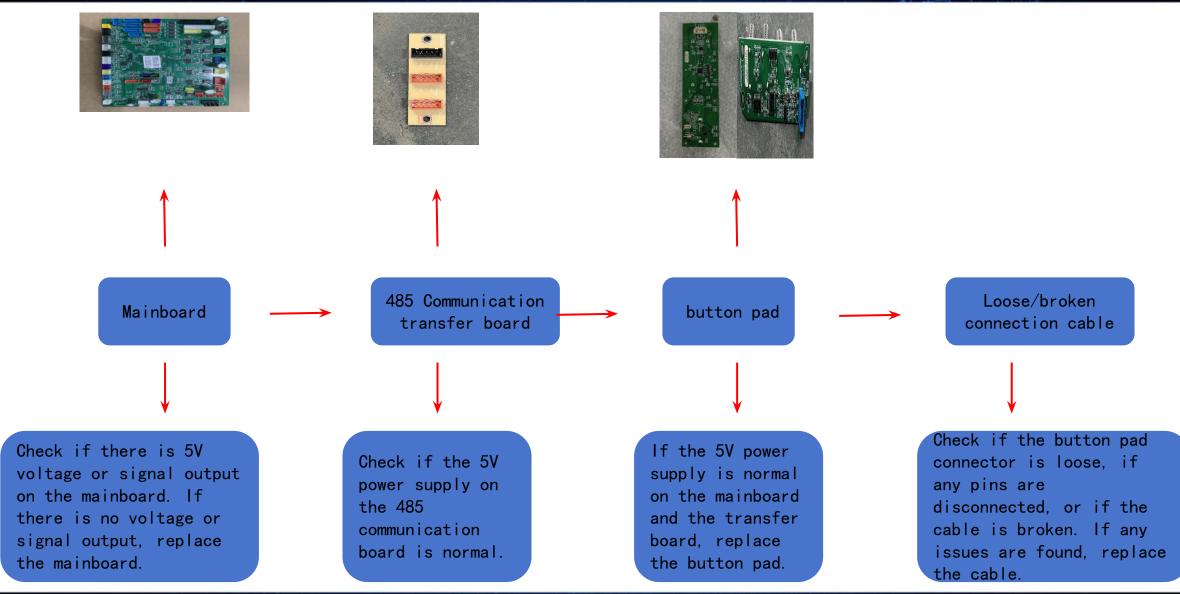
## 14. S80 Error Alert





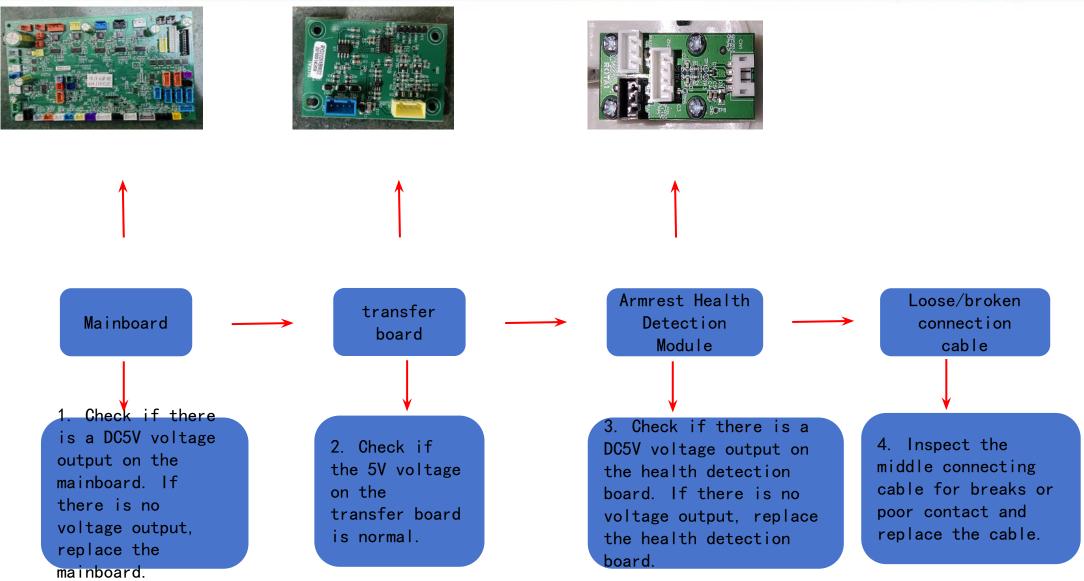
## **15.S80 Button pad not working**

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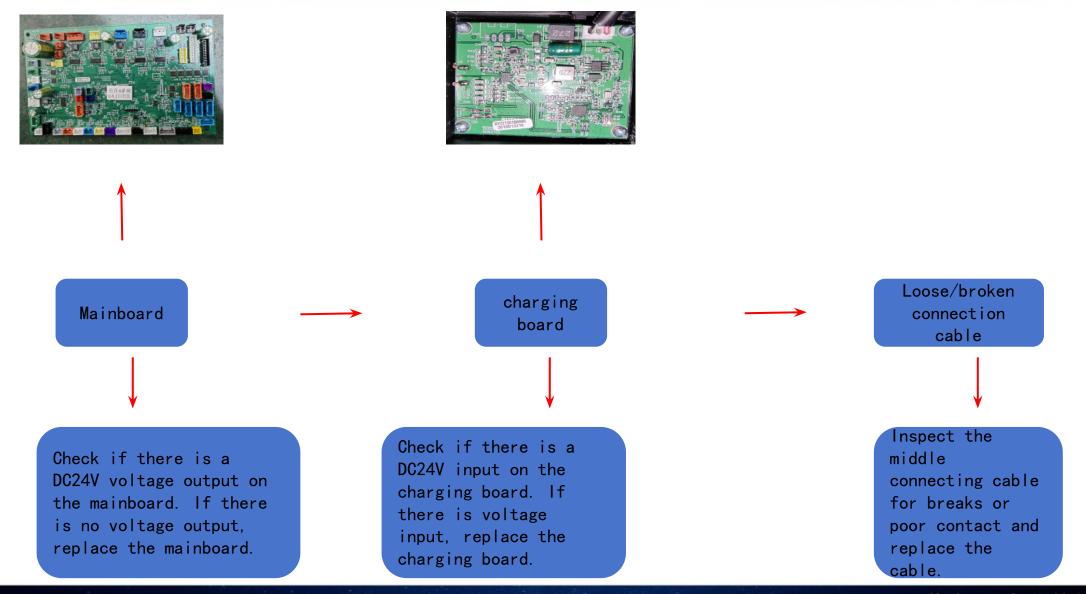
## **16.S80 Health detection no results**





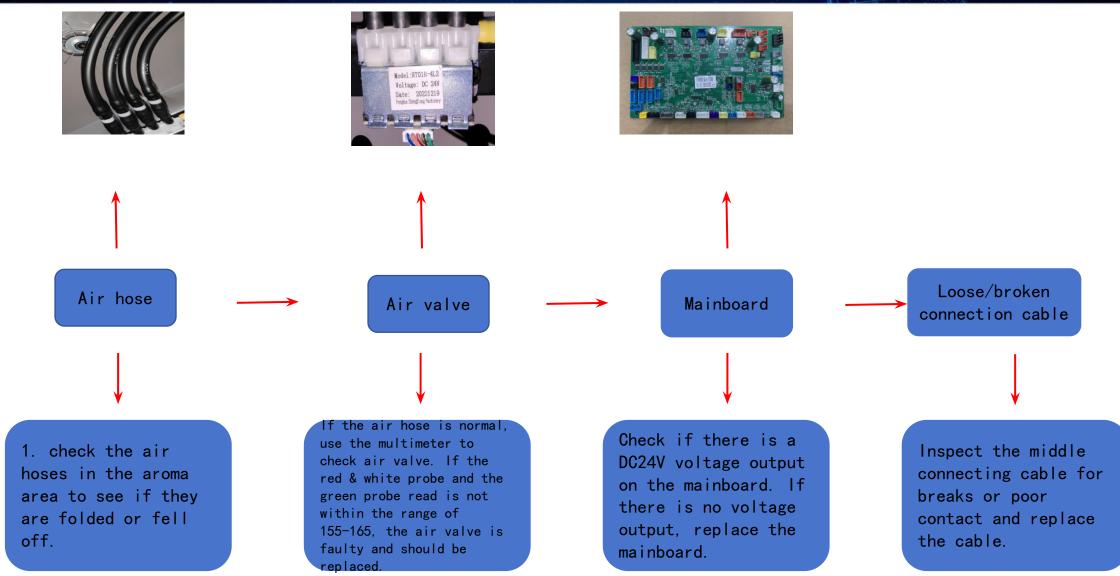
## **17.S80 Wireless charger not working**



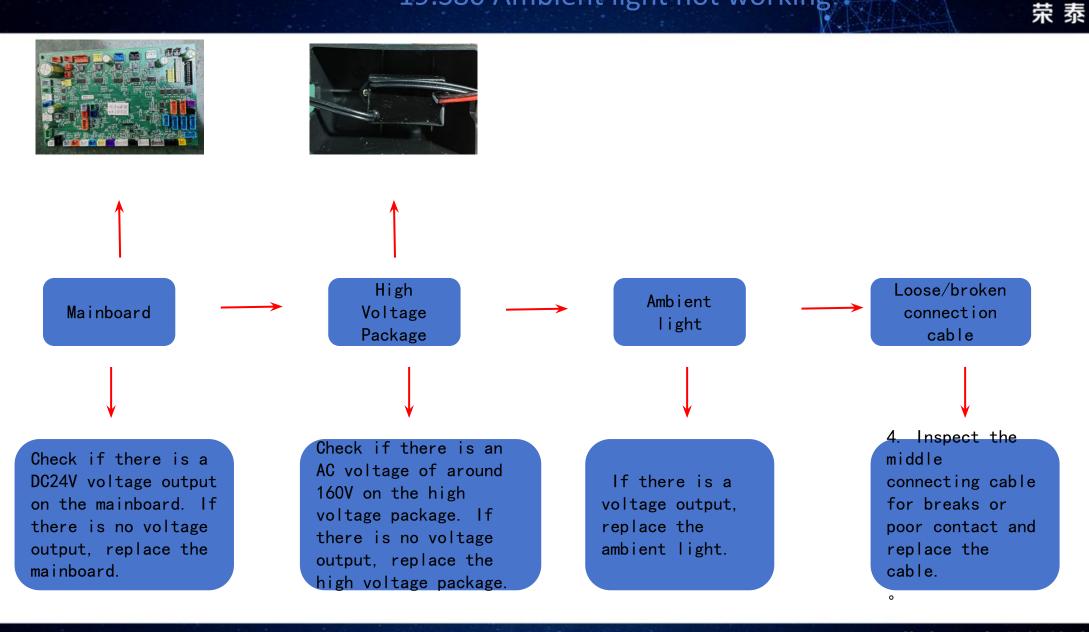


## 18.S80 Aroma not working

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## 19.S80 Ambient light not working

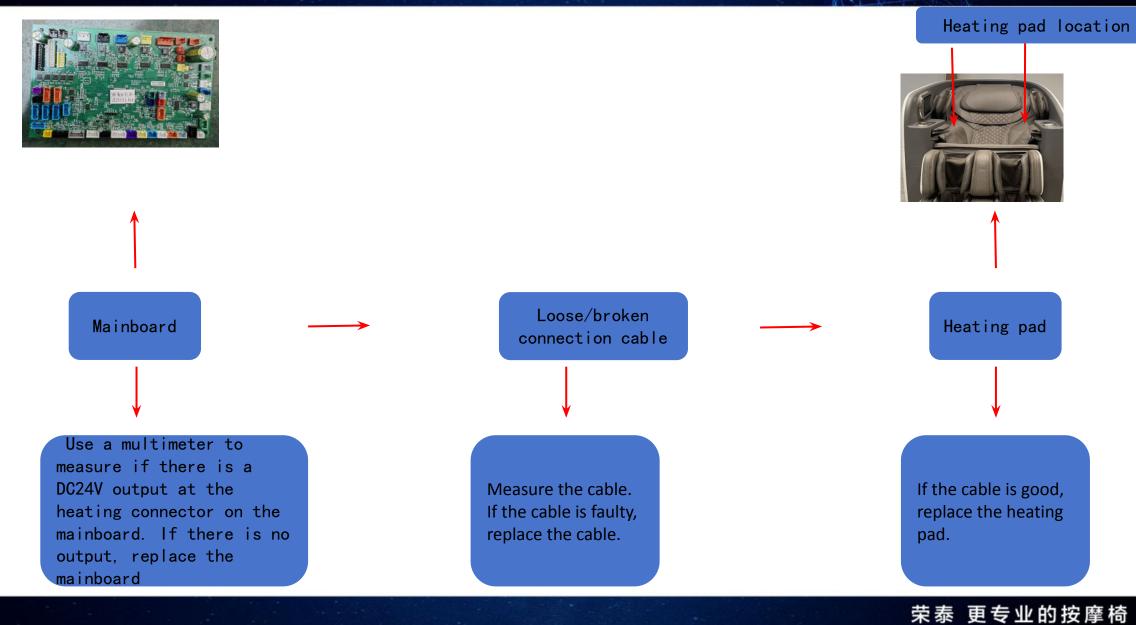


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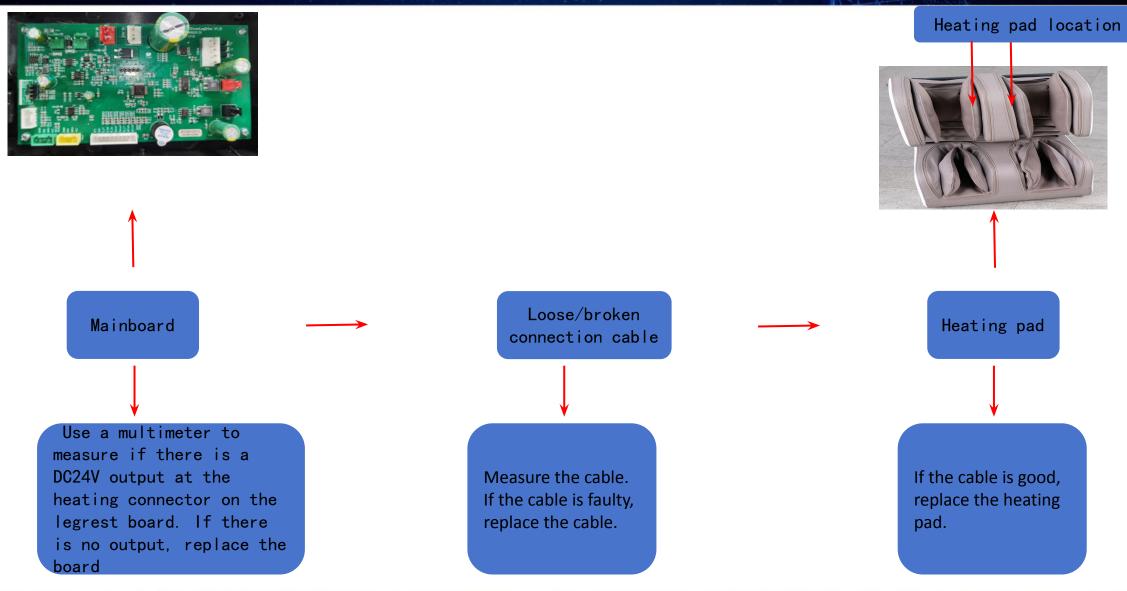
## 20. S80 Main chair heating not working

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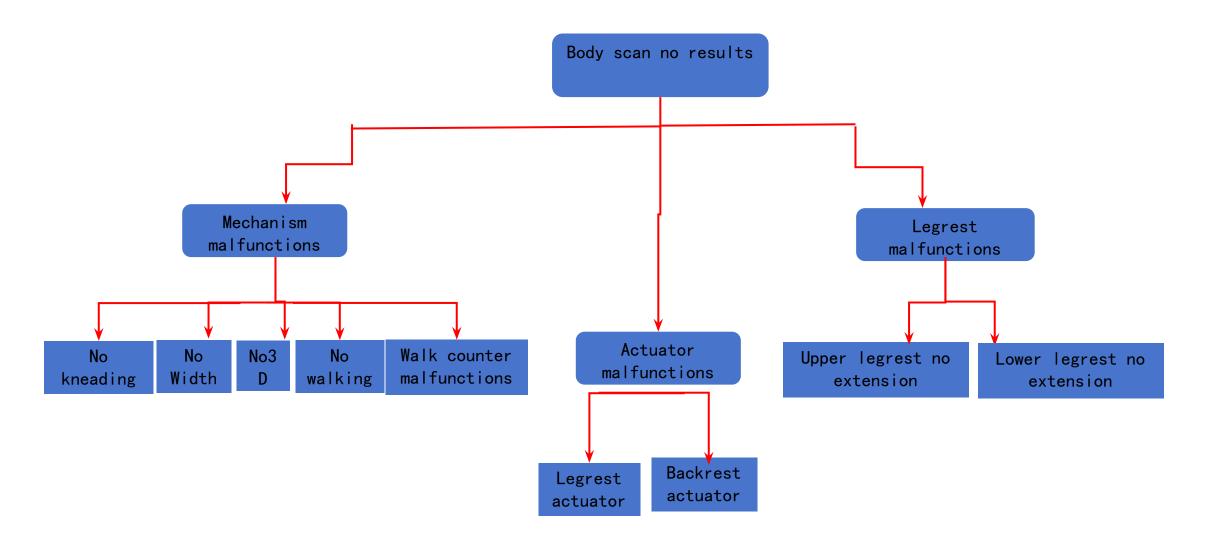
## 21.S80 Leg heating not working

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## 22.S80 Body scan no results

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# ROTAI Nore Professional Massage Chairs