

ROTAI
荣泰



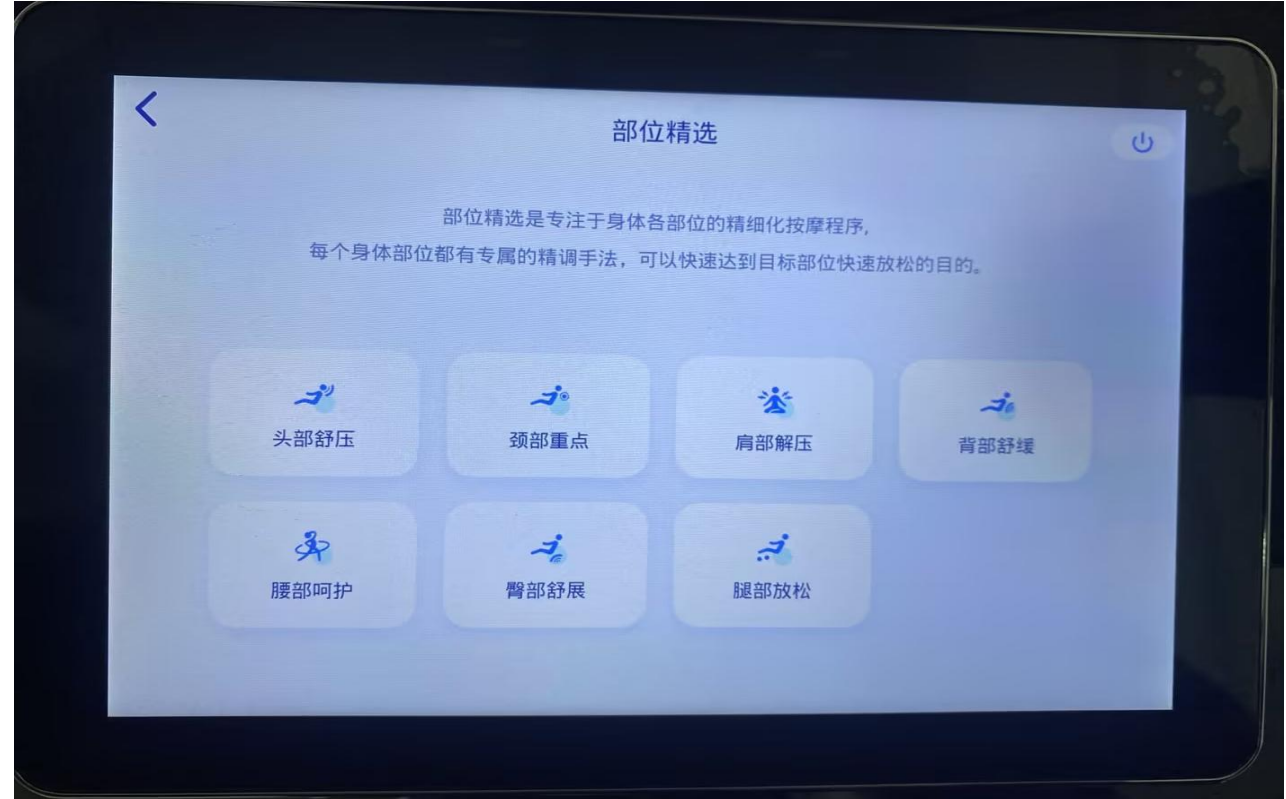
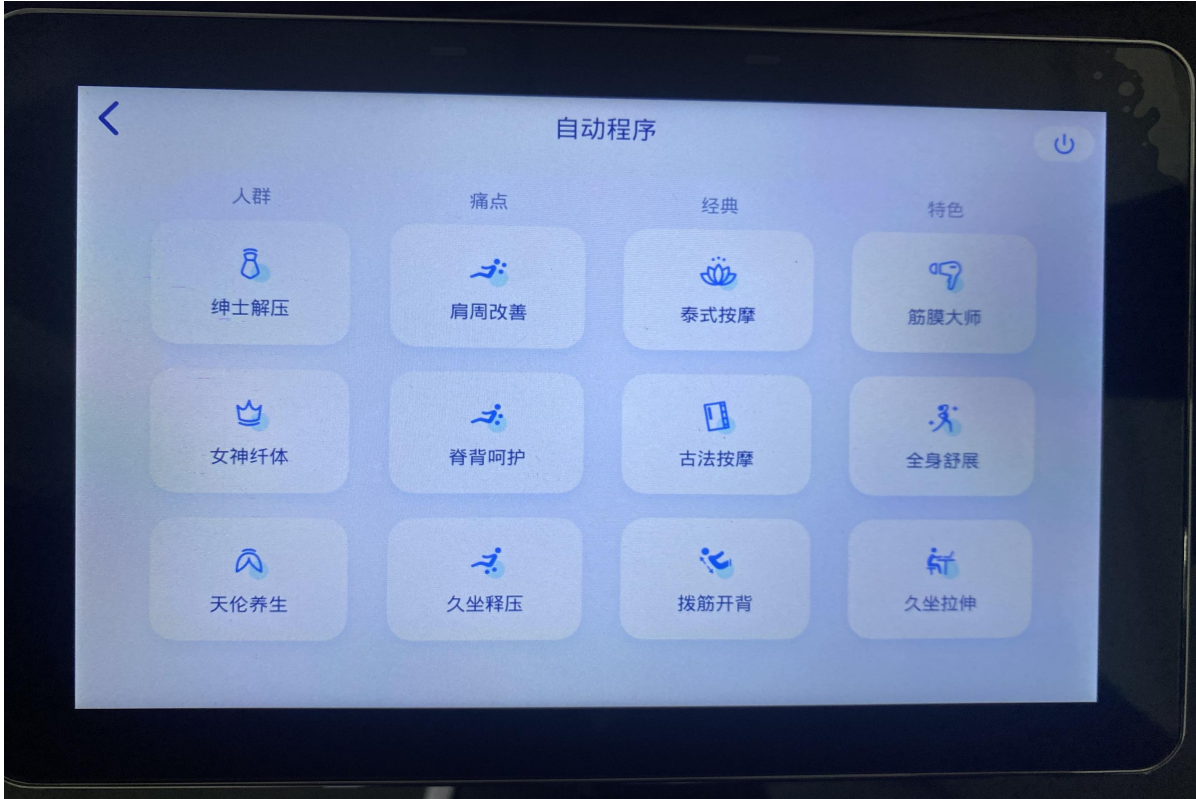
RT-A70PLUS Massage Chair Maintenance Instruction

Detailed parameters

	Configuration	Parameters
Mechanism	Upper mechanism: 30# airbag mechanism	
	Lower mechanism: 11# mechanism	
Track	Flexible track	Upper track: 1100mm Lower track: 200mm
Legrest	Footrest lift actuator	Distance: 106mm
Back	Backrest actuator	Distance: 145mm
Airbag	46 full-body wrap-around airbags	Leg airbag: 20, Valve count: 3; Foot airbag: 12, Valve count: 4; Arm airbag: 8, Valve count: 4; Shoulder airbag: 6, Valve count: 2; Other areas mechanism: Valve count: 2.
Air pump	Main air pump	Working voltage: AC24V
	11# mechanism air pump	Working voltage: DC24V
Heating	Two large heating areas: Backrest, legrest	Backrest heating pad*2: Carbon fiber heating pad: Max surface temperature 52°C; Size: 120*370mm; Power: 26W; Legrest heating pad*4: Graphene heating pad: Max surface temperature 47°C; Size: 120*160mm; Power: 16W;
Upgraded	8-inch Touch LCD Panel	8 inches, wired, touch
	Armrest quick buttons	Rotary Switch functions: Long press to power on/off, knob to adjust massage intensity, single click to switch massage programs, default massage time 20 minutes. Independent button functions: Coffee mode, game mode, nap mode, zero-gravity mode, airbags, body part selection, heating switch, backrest up/down, auto program, all buttons are mechanical; Backrest up/down supports long press mode, single point trigger.
	ROTAI Smart App	Compatible with iOS 10.0+ and Android 5.0+; RONGTAI smart app scans to connect via Bluetooth; Supports massage chair upgrades; Supports app expansion.
Safety	1 Area Anti-pinch Sensor	Power box and rear cover
Phone Charging	USB charging	USB charging: 5V, 2A
Speaker	Wireless Bluetooth stereo sound	Bluetooth connection via mobile phone for music playback, heavy bass speakers, maximum power 8W per speaker.
Programs	Auto programs: User group: 3 sets, Pain relief: 3 sets, Classic: 3 sets, Featured: 3 sets,	User Group: Women' s Massage, Men's Massage, Senior' s Joy Pain relief: Neck & Shoulder, Back & Spine, Waist & Hip Classic: Thai Massage, Ancient Massage, Muscle Pushing Featured: Fascia Master, Loosen Up, Full Extension, Focus: Head massage, neck massage, shoulder massage, back massage, waist massage, hip massage, leg massage



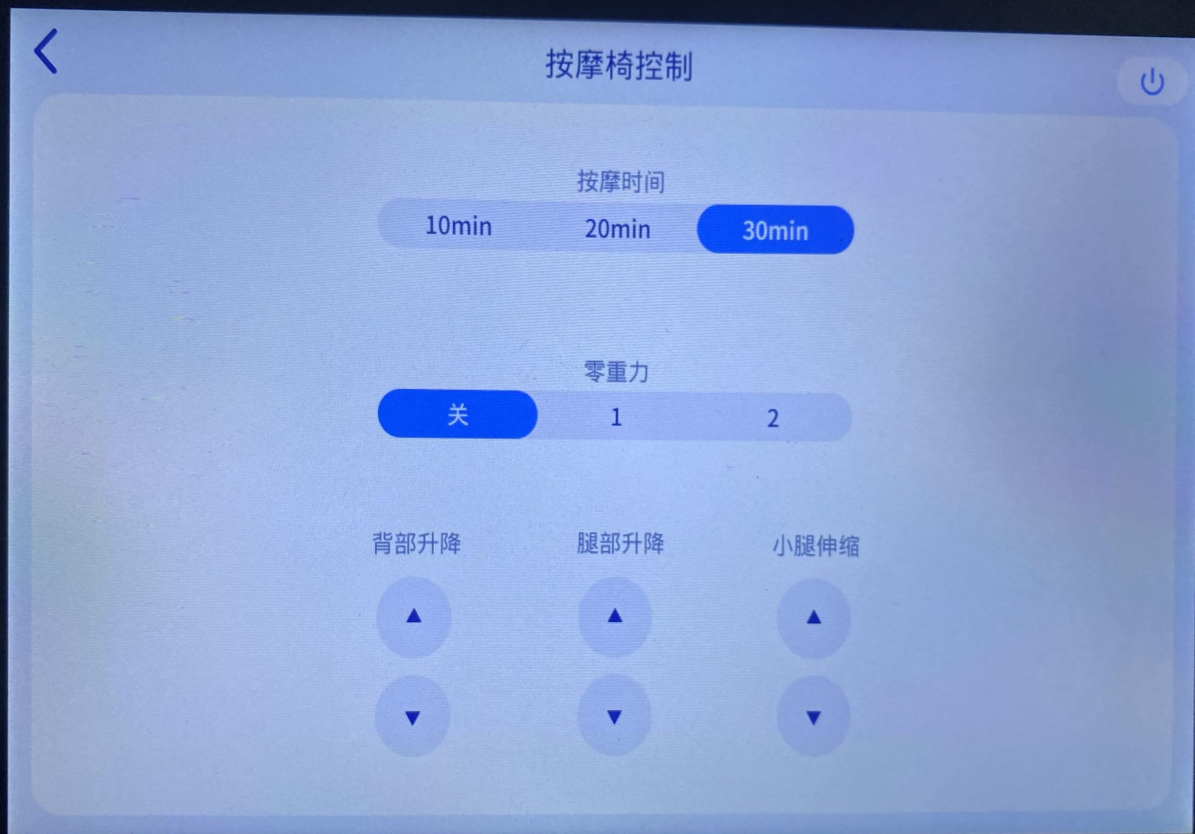
Auto Massage Programs



RT/E-SH001-2024

A/O

Massage Chair Control



Zero-gravity

- Adjustable zero-gravity: 1/2 positions

Massage Time

- Adjustable massage time: 10/20/30 minutes

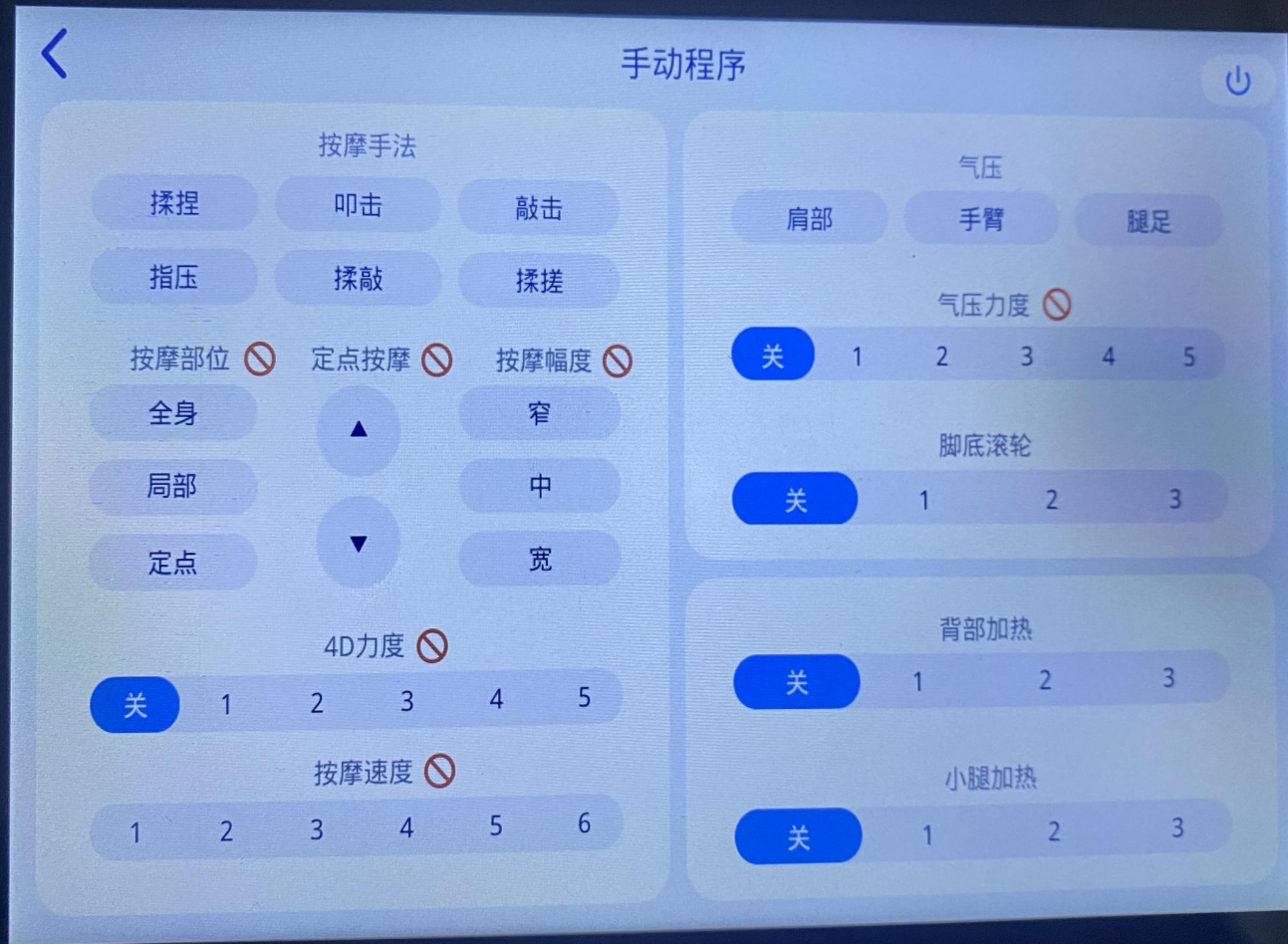
Angle Adjustment

- Backrest actuator up/down
- Legrest actuator up/down
- Extend/Retract

RT/E-SH001-2024

A/0

Manual Options



Techniques

Kneading
Knocking
Shiatsu

Sync
Tapping
Rubbing

Massage Part

Whole
Partial
Point

Massage Width

Wide
Medium
Narrow

4D Intensity

Power On/Off
1,2,3,4,5 3D strength

Massage Speed
1,2,3,4,5,6 massage speed

Air pressure

- Adjustable air pressure areas
- Adjustable air pressure intensity

Foot Rollers

- Adjustable foot roller speed: 3 levels

Back Heat

- Adjustable calf heating temperature: 3 levels

Leg heating

- Adjustable calf heating temperature: 3 levels

Foot heating

- Adjustable foot heating temperature: 3 levels

RT/E-SH001-2024

A/0

How to enter engineering mode



Fig. 1

Click to set as shown in fig. 1

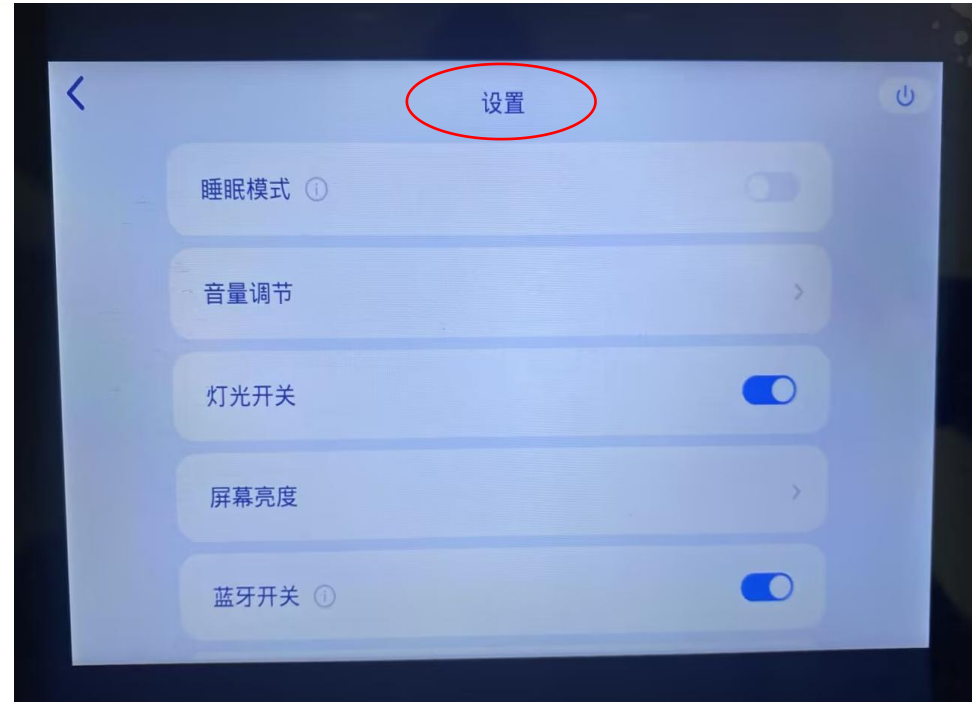


Fig. 2

Double-click top to set as shown in fig. 2

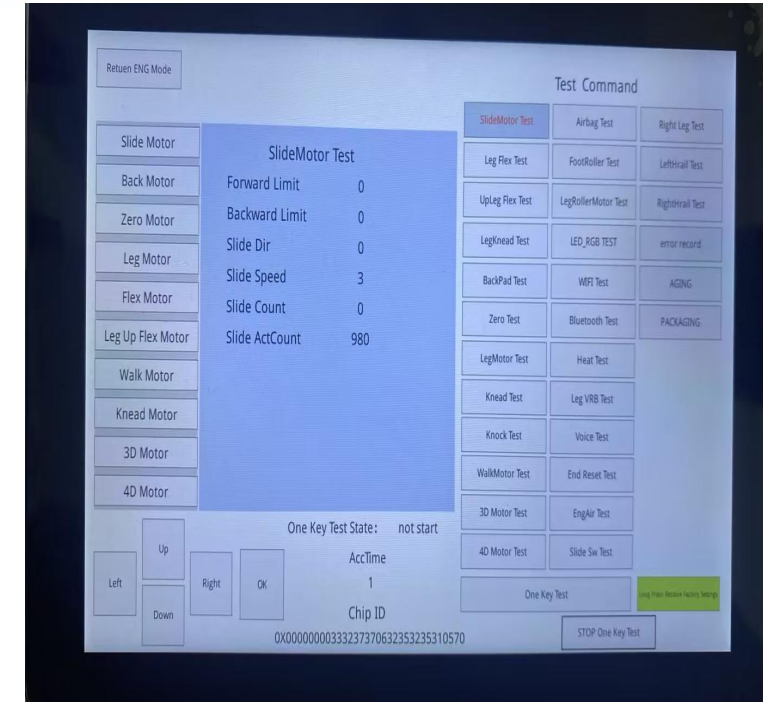


Fig. 3

Enter engineering mode as shown in fig. 3

Legrest Installation



Fig. 1

Connect air tube
and harness as Fig. 1

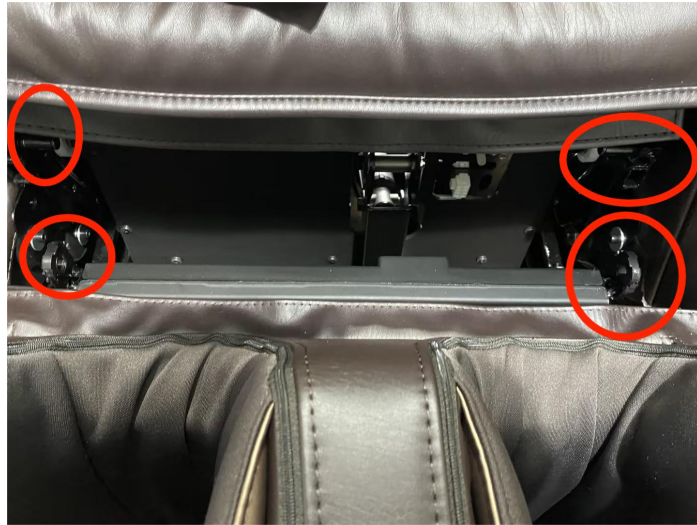


Fig. 2

Fit the hook in shaft of
chair body as Fig. 2



Fig. 3

Fix clips on both
sides as Fig. 3



Fig. 4

Zip it up as Fig. 4

Armrest Removal



Fig. 1

Remove 4 marked screws as shown in fig. 1



Fig. 2

Remove 2 marked screws as shown in fig. 2



Fig. 3

Unzip marked shoulder zipper as shown in fig. 3



Fig. 4

Remove 1 marked screw as shown in fig. 4

Armrest Removal



Fig. 1

Lower backrest to the bottom before removing 3 marked screws as shown in fig. 1

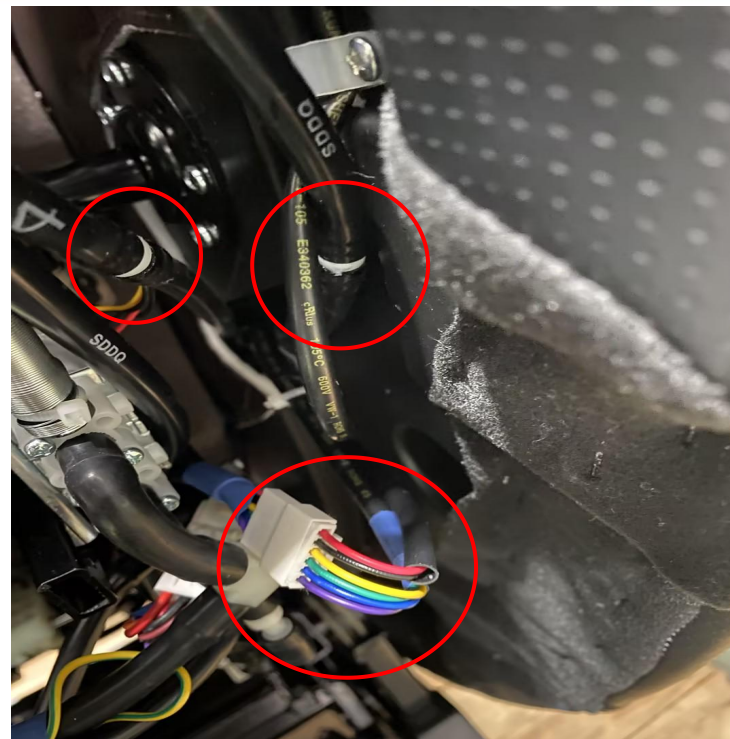


Fig. 2

Disconnect marked armrest connector and air hose as shown in fig. 2

Footrest Panel Removal



Fig. 1

Remove 1 marked screws as shown in fig. 1

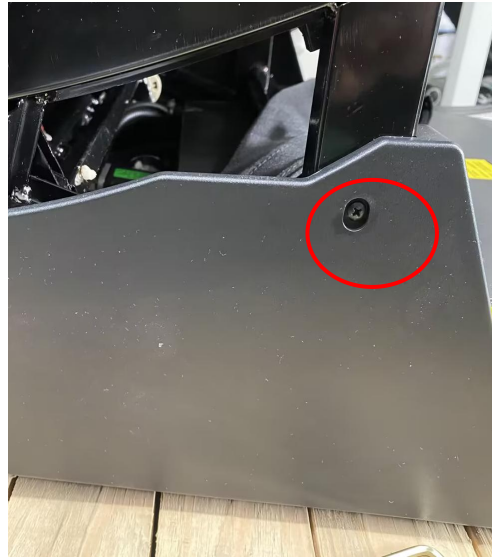


Fig. 2

Remove 1 marked screw as shown in fig. 2



Fig. 3

Remove 1 marked screw as shown in fig. 3

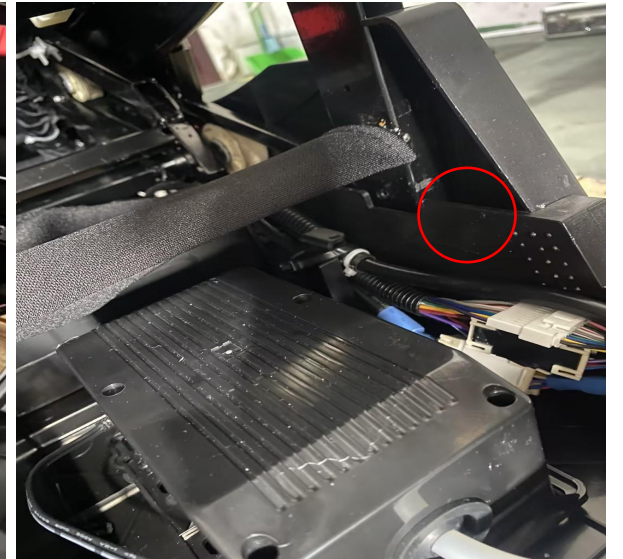


Fig. 4

Remove 1 marked screw as shown in fig. 4

Front Panel Removal

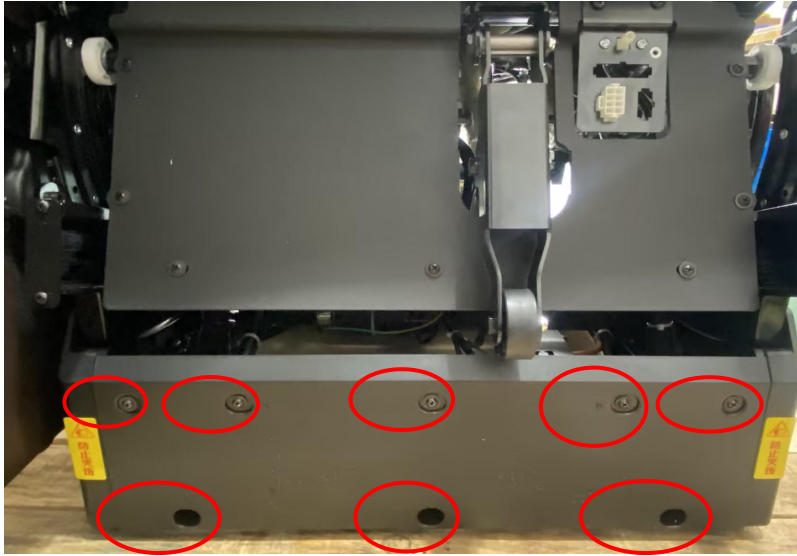


Fig. 1

Remove 8 marked
screws as shown in fig.
1

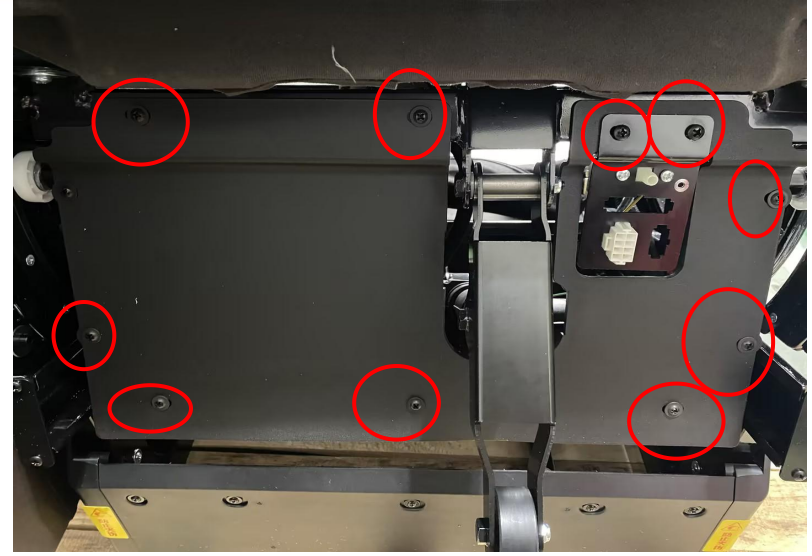


Fig. 2

Remove 10 marked
screws as shown in fig.
2

Head Cover Removal



Fig. 1

Remove 1 marked screw from each side as shown in fig. 1

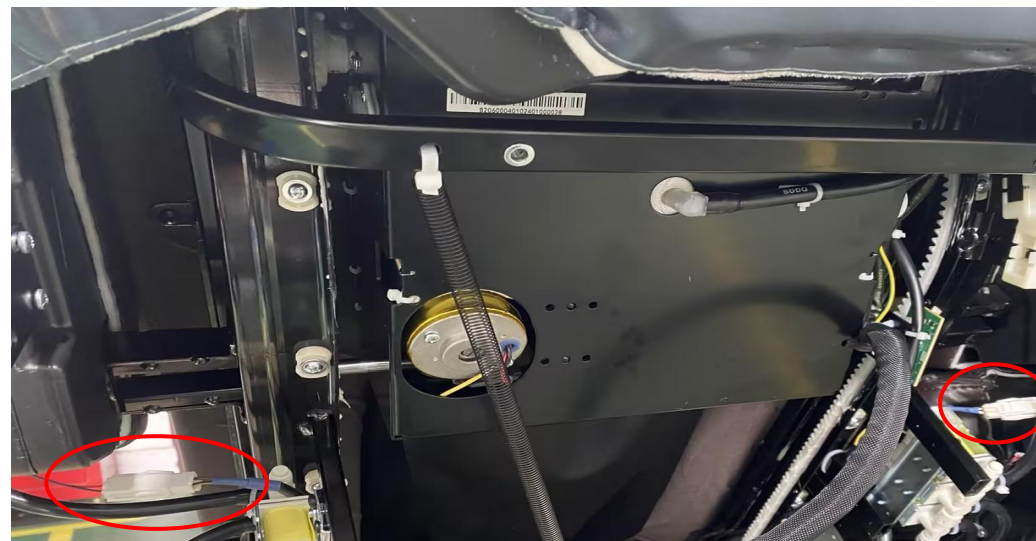


Fig. 2

Disconnect left and right speaker connectors as shown in fig. 2

Legrest Removal

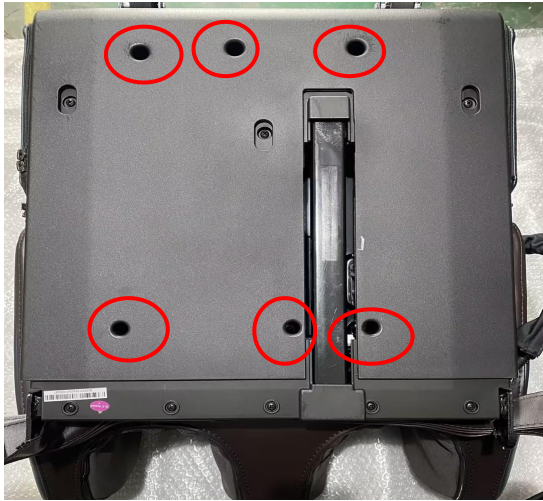


Fig. 1

Remove 6 marked screws as shown in fig. 1

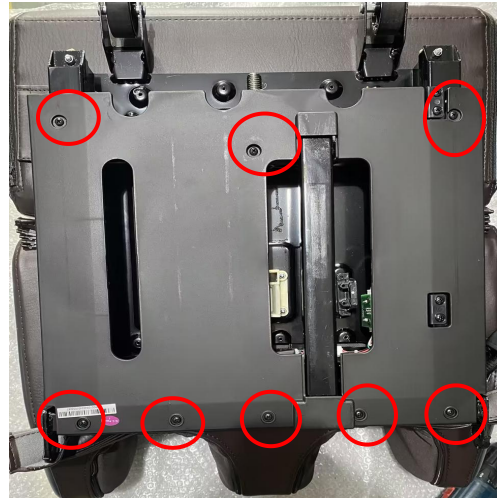


Fig. 2

Remove 8 marked screws as shown in fig. 2

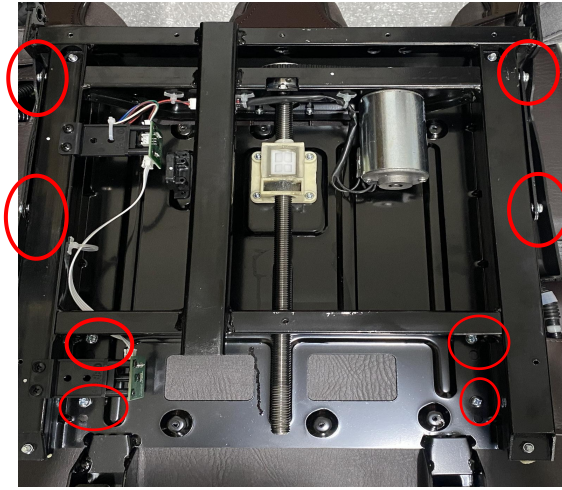


Fig. 3

Remove 8 marked screw as shown in fig. 3

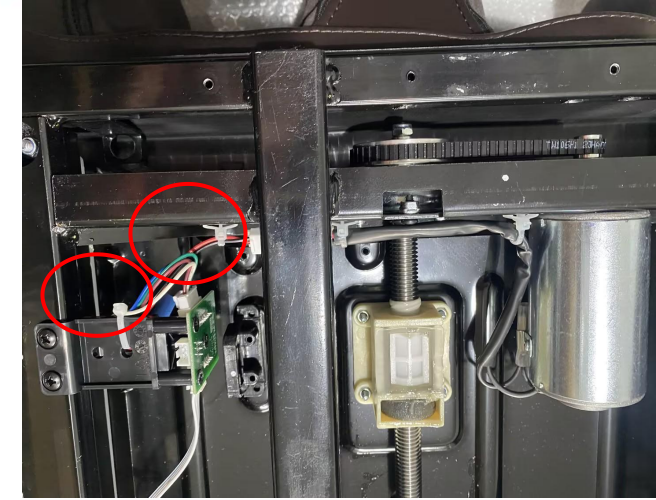


Fig. 4

Disconnect 2 marked connectors as shown in fig. 4

Legrest Removal

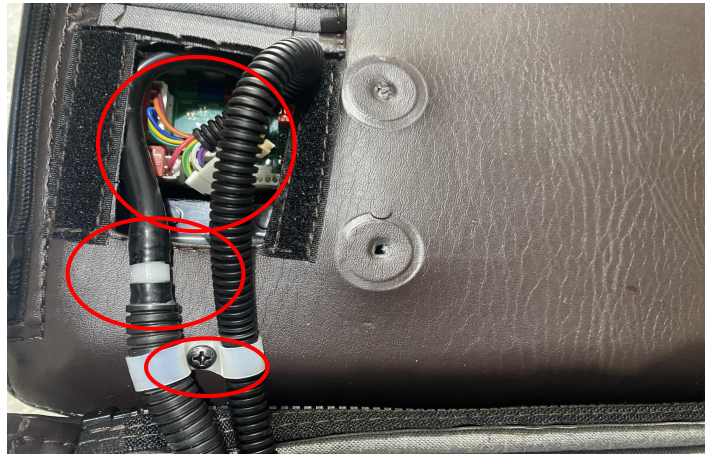


Fig. 1

Remove 1 marked screw and disconnect air hose and connector as shown in fig. 1



Fig. 2



Fig. 3

Unzip marked zipper as shown in figs. 2 and 3

Legrest Removal



Fig. 1

Remove the marked leather cover as shown in fig. 1



Fig. 2

Remove 2 marked screws to reveal the mainboard as shown in figs. 2 and 3

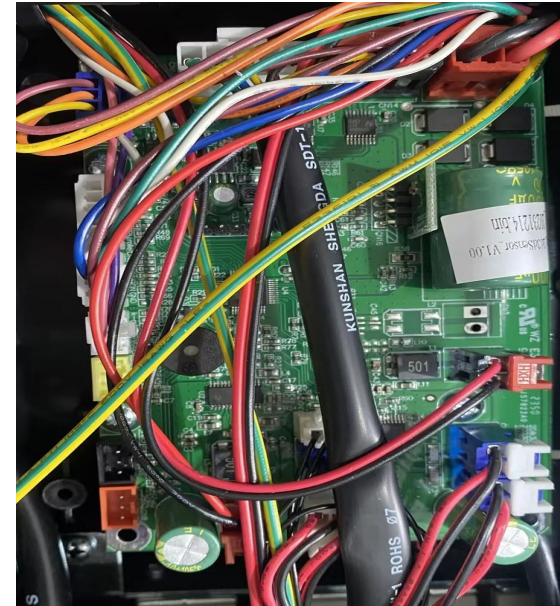


Fig. 3

Legrest Removal



Fig. 1

Unzip marked zipper as shown in fig. 1

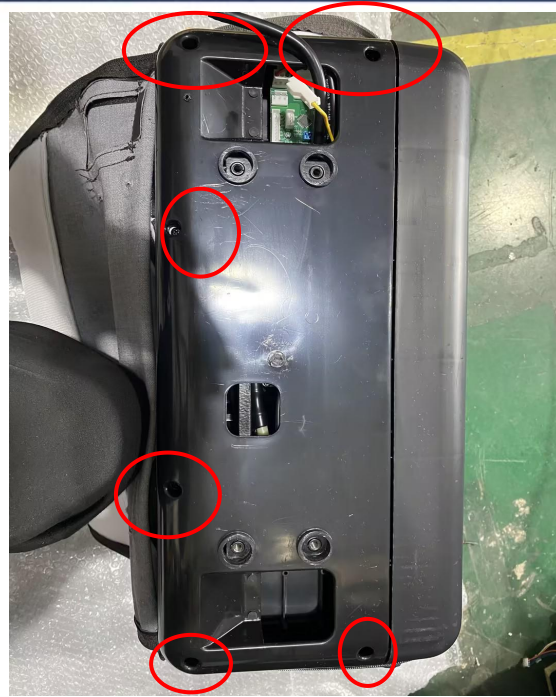


Fig. 2

Remove 6 marked screws to reveal the transfer board as shown in figs. 2 and 3



Fig. 3

Upper Mechanism Removal

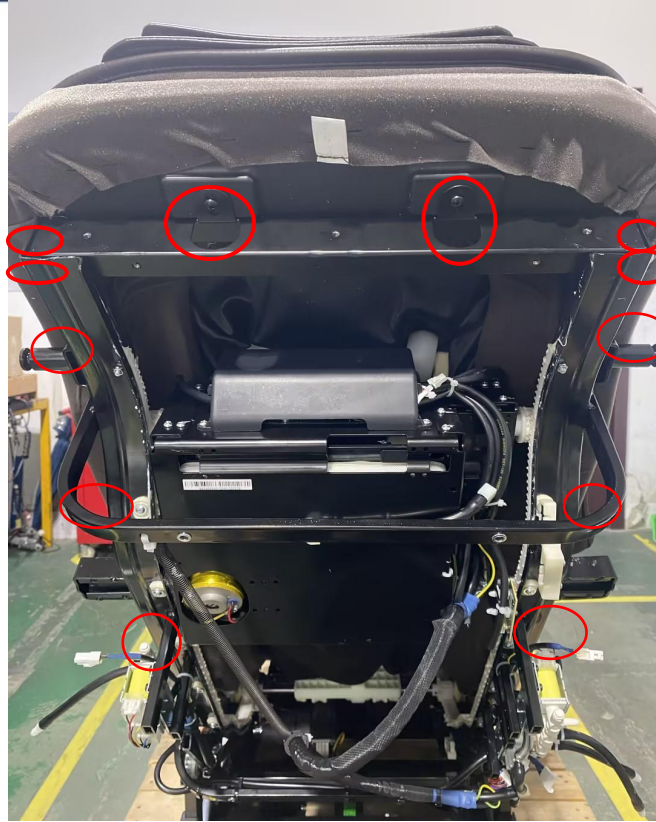


Fig. 1

Remove 12 marked screws as shown in fig. 1

Upper Mechanism Removal

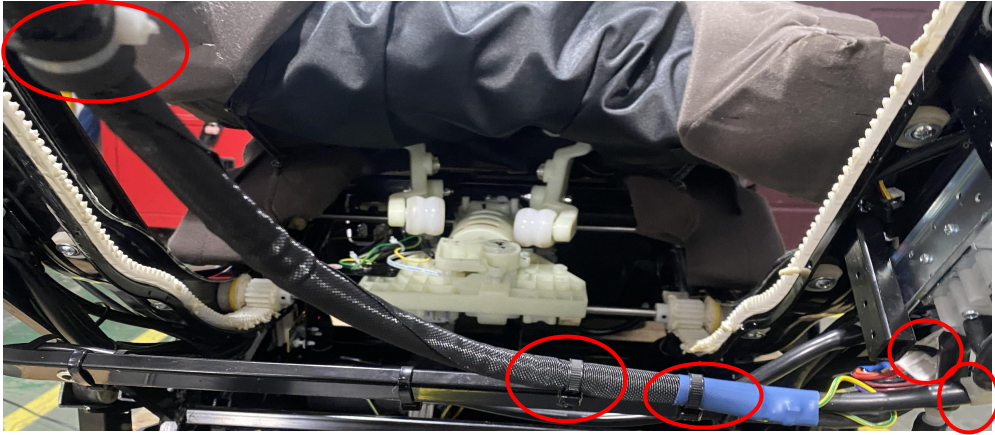


Fig. 1

Cut off marked ties and unplug the air hose connector as shown in fig. 1



Fig. 2

Use a 24V external power source to adjust the walking motor and remove the mechanism as shown in fig. 2

Lower Mechanism Removal



Fig. 1



Fig. 2



Fig. 3

Unzip marked zipper as shown in figs. 1, 2, and 3

Lower Mechanism Removal

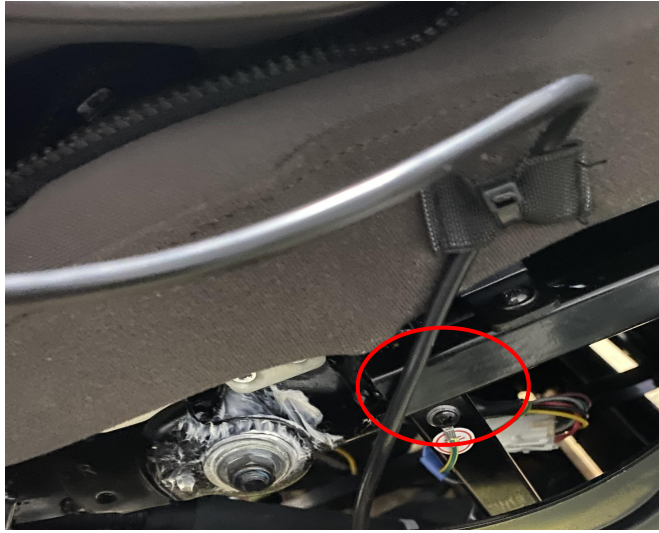


Fig. 1

Remove 1 marked screws
as shown in fig. 1

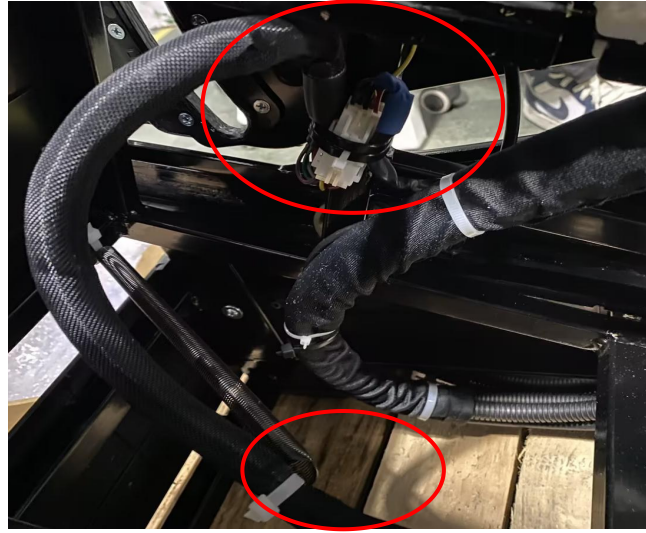


Fig. 2

Cut off marked ties and
unplug connector as
shown in fig. 2



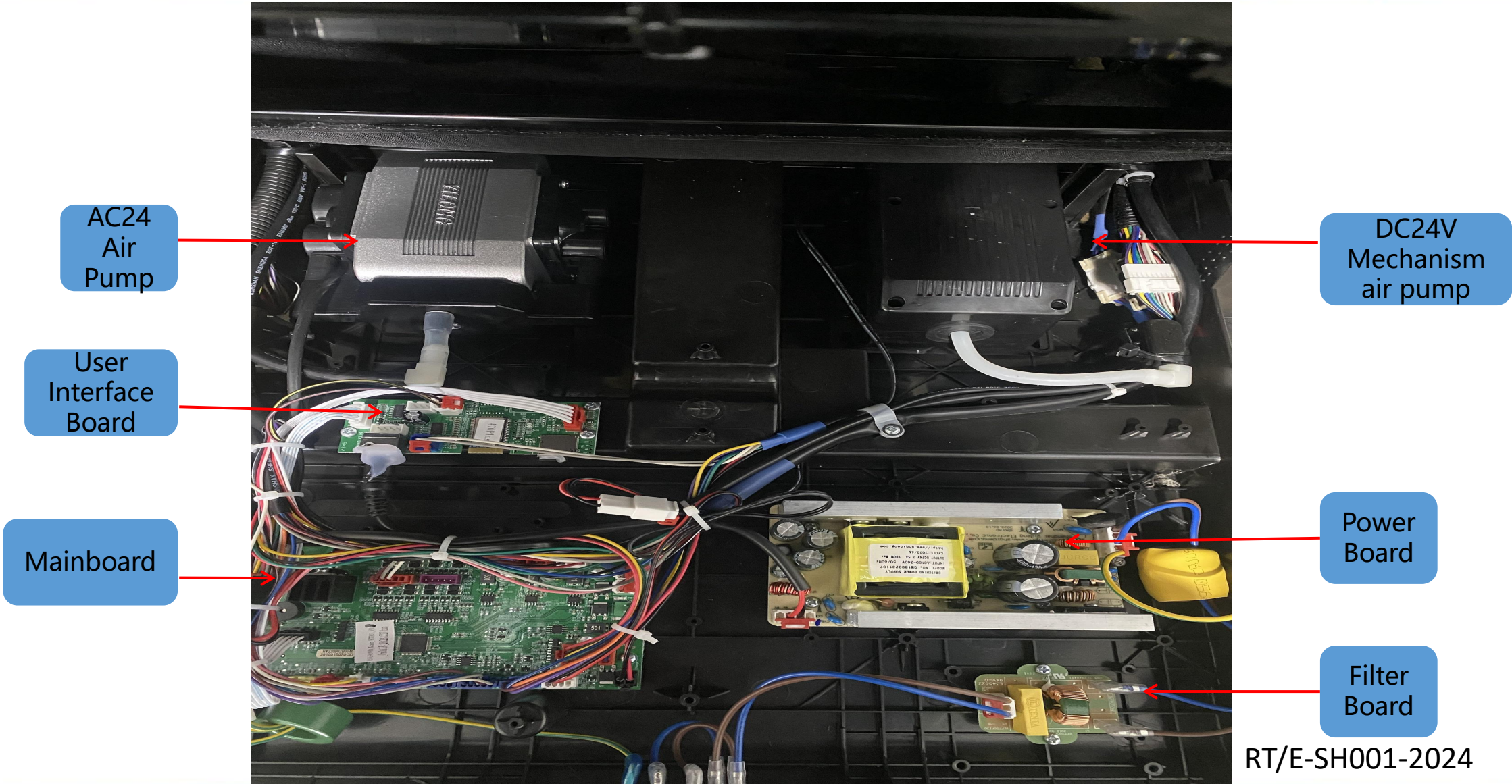
Fig. 3

Unplug the walking motor
connector and use an
external 24V power
source to remove the
mechanism as shown in

fig. 3
RT/E-SH001-2024

A/0

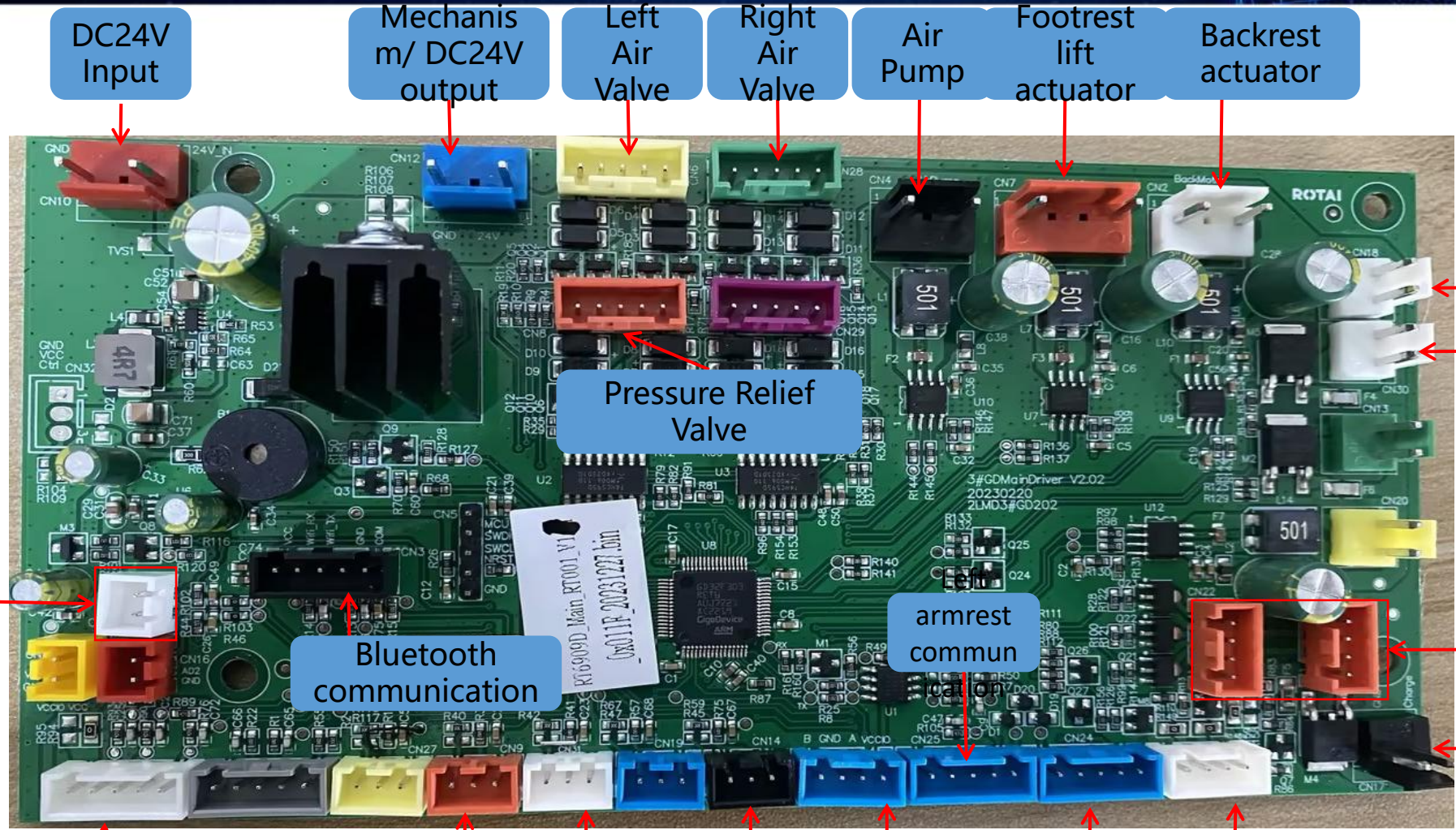
Power Box



RT/E-SH001-2024

A/0

Mainboard Connector Distribution



DC24V Input

Mechanism/ DC24V output

Left Air Valve

Right Air Valve

Air Pump

Footrest lift actuator

Backrest actuator

Left Waist Heating

Right Waist Heating

Left & right LED

USB charging

Waist heating temperature detection

Pressure Relief Valve

Bluetooth communication

armrest communication

Controller communication

Leg Unit Actuator Counter

Backrest Recline Actuator Counter

Power Box Top panel cover Anti-pinch

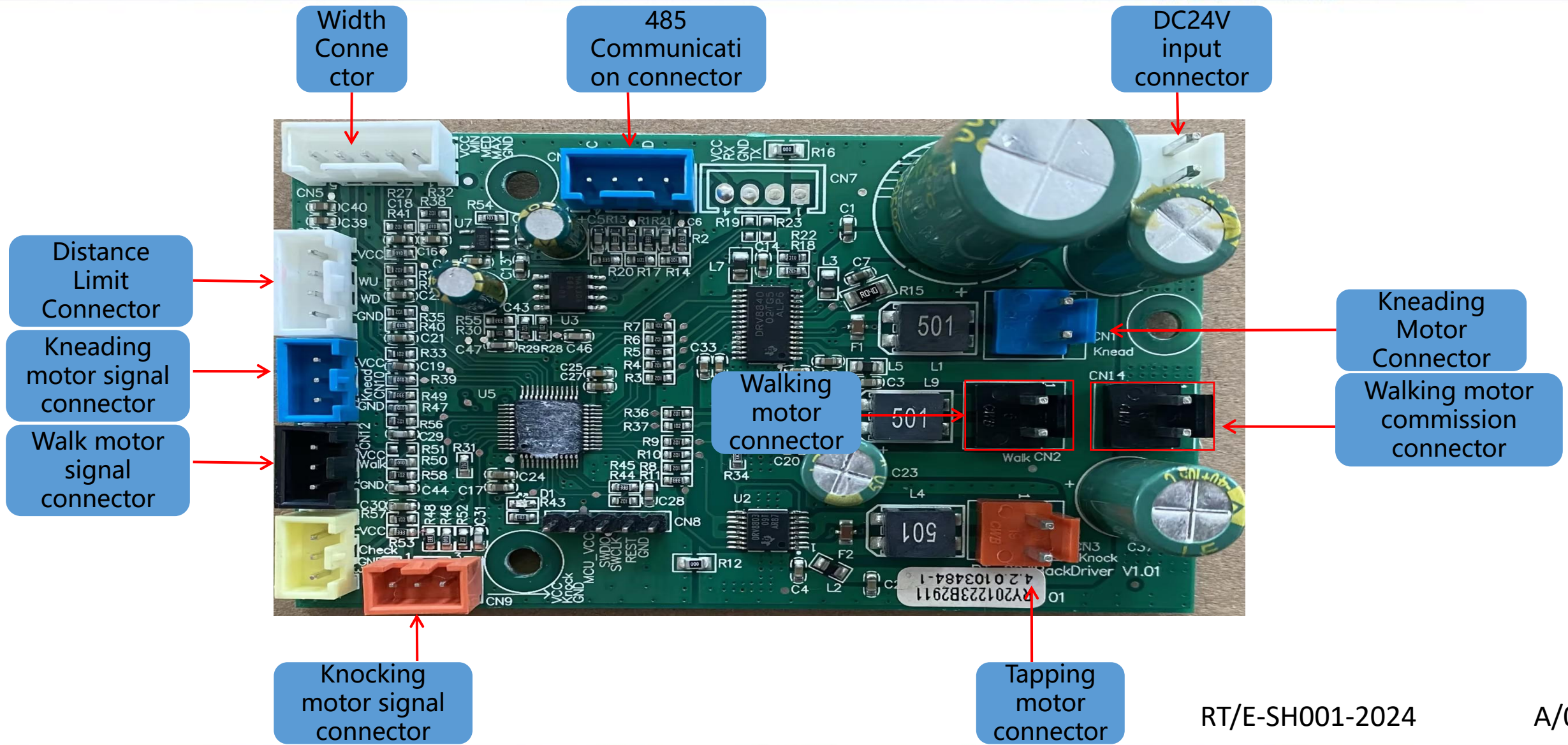
Footrest Communication

485 Mechanism Communication

DC air pump/fan

RT/E-SH001-2024

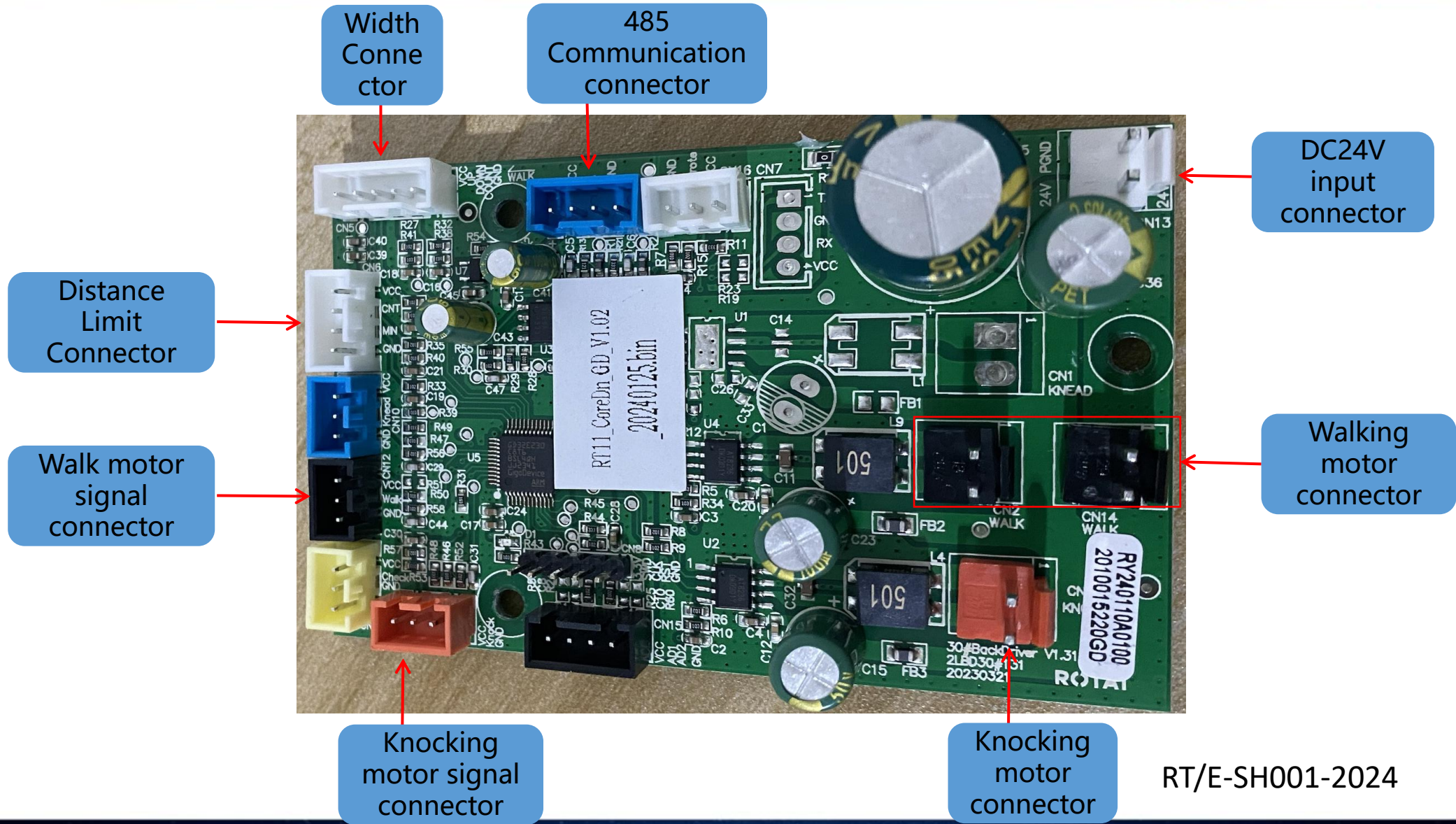
Upper Mechanism Mainboard Connector Diagram



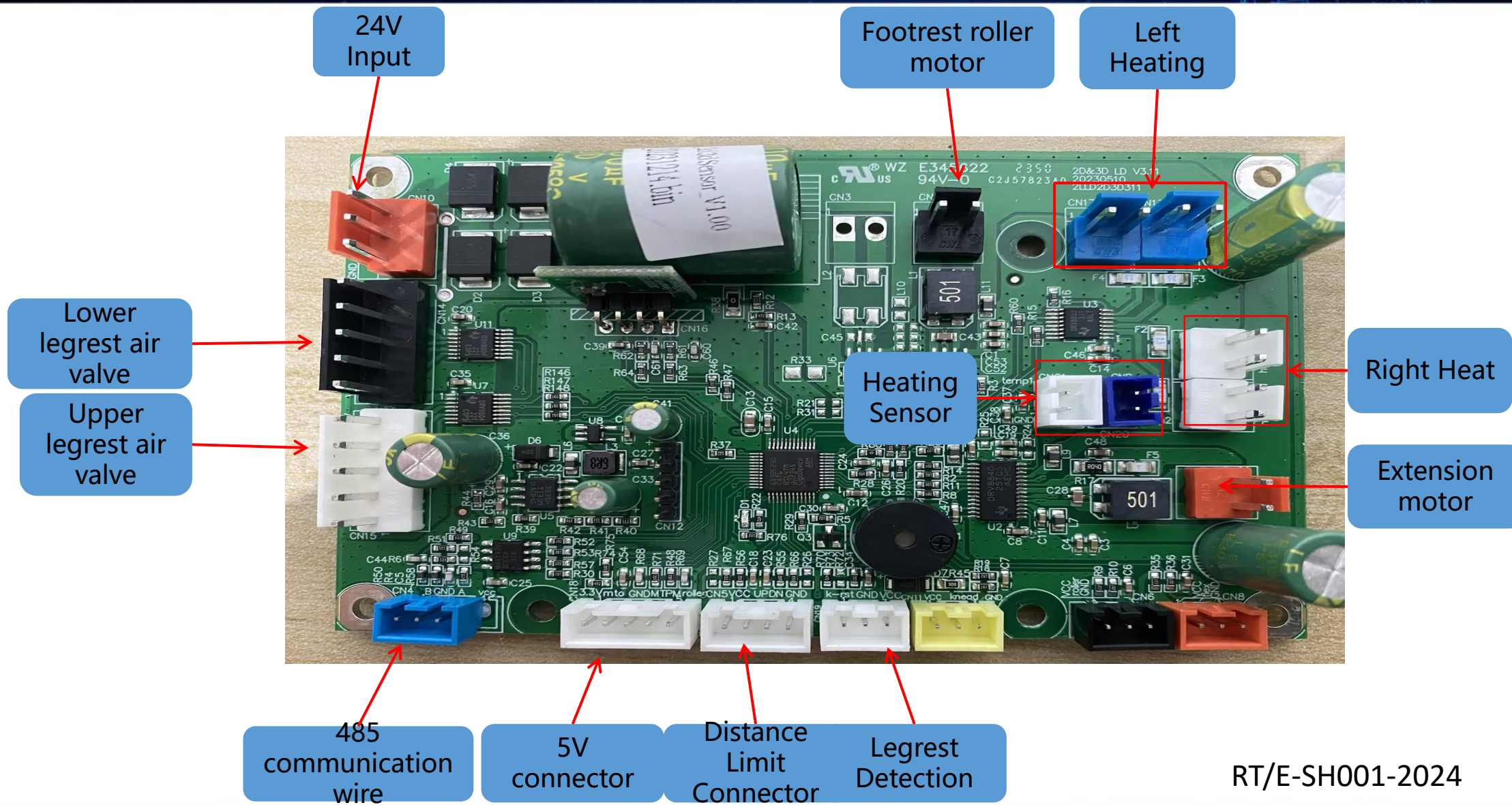
RT/E-SH001-2024

A/0

Lower Mechanism Mainboard Connector



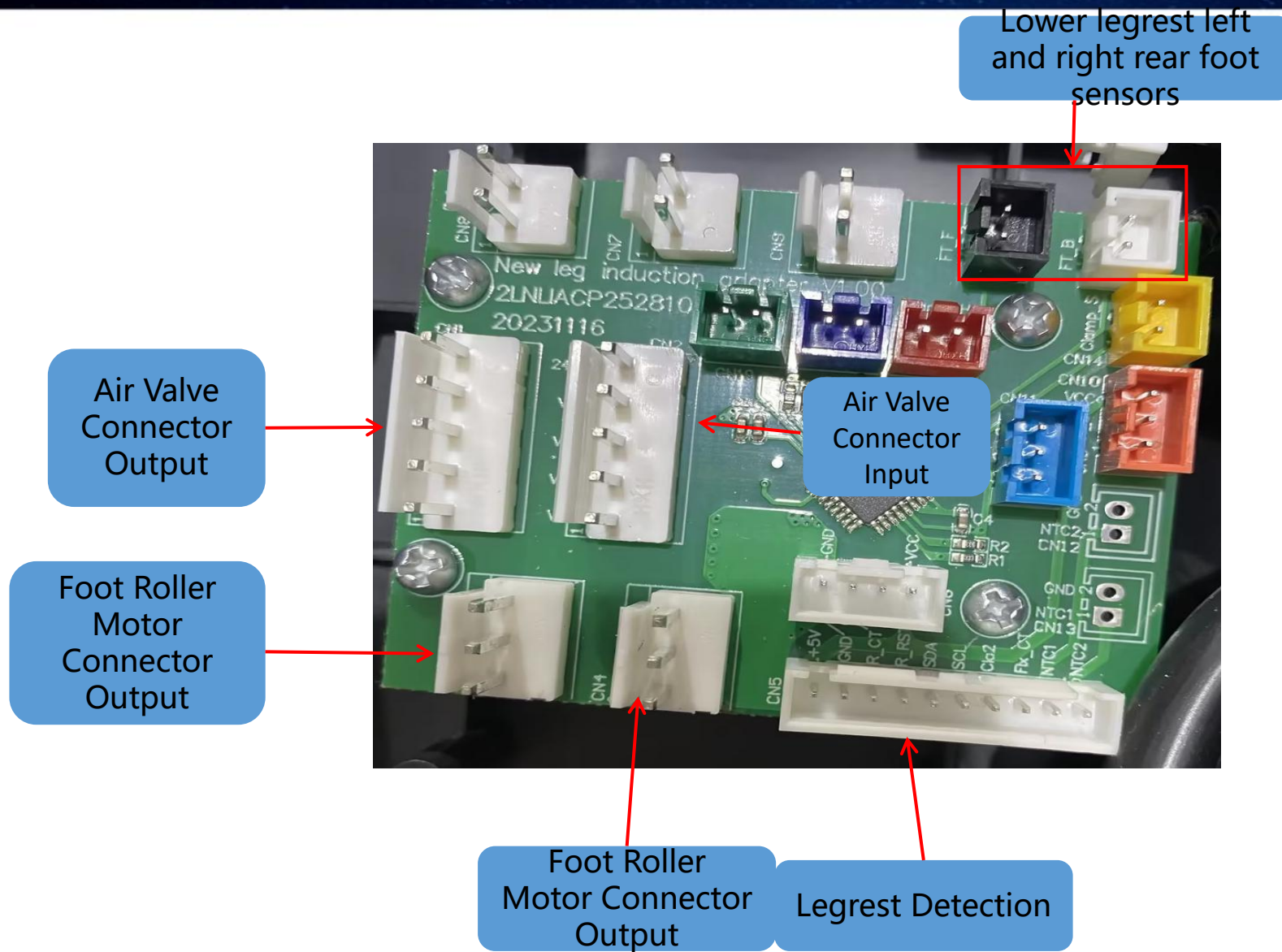
Upper legrest Mainboard Connector Diagram



RT/E-SH001-2024

A/0

Lower Legrest Transfer Board



RT/E-SH001-2024

A/0

Upper&Lower Mechanism Width Board, 3D Limit Board 3D Counter Board, Upper&Lower Mechanism Distance Limit Board

Walking Counting Connector



Lower Mechanism Walking Counting Board

Kneading counting connector



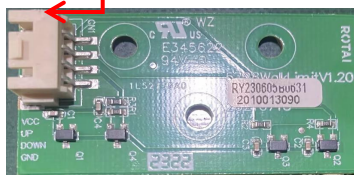
Lower Mechanism Kneading counting board

3D Limit Connector



3D Limit Board

Upper Mechanism Distance Limit Board Connector

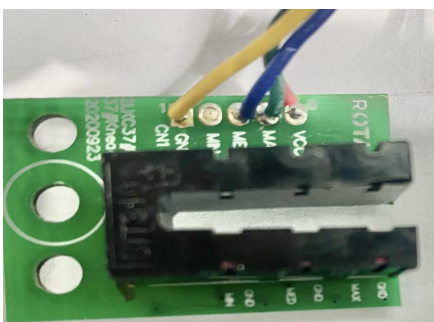


Upper Mechanism Distance Limit Board

Lower Mechanism Distance Limit Board Connector



Lower Mechanism Distance Limit Board



Upper Mechanism Width Board or optocoupler counting board

RT/E-SH001-2024

A/O

5V Power Board, User Connecting PCB Connector Diagram



AC220V
Input

DC24V
Output

Mainboard
Communication
Connector

left speaker
connector

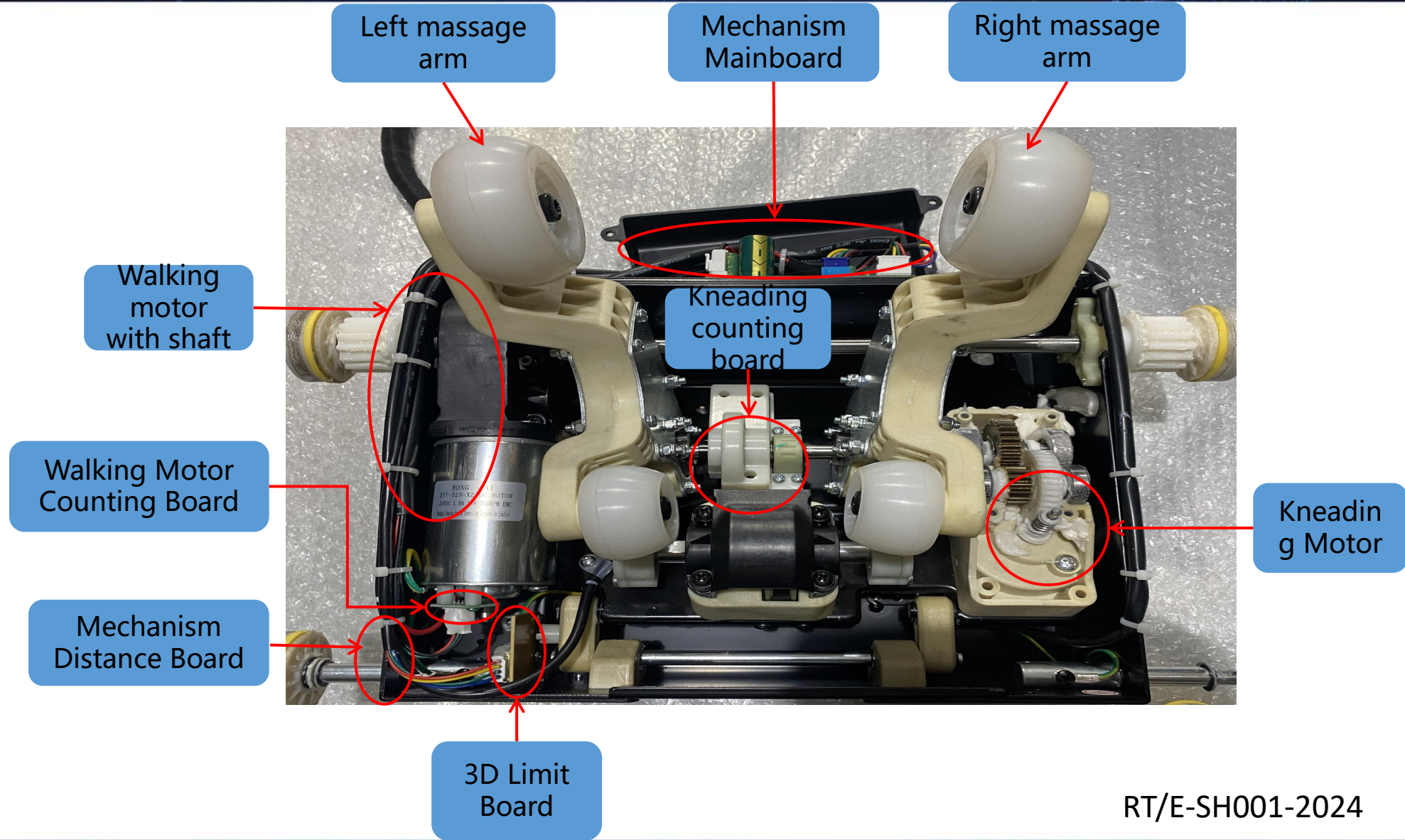
APP Communication
connector



Remote
Plug-in
Unit Case

Right
speaker

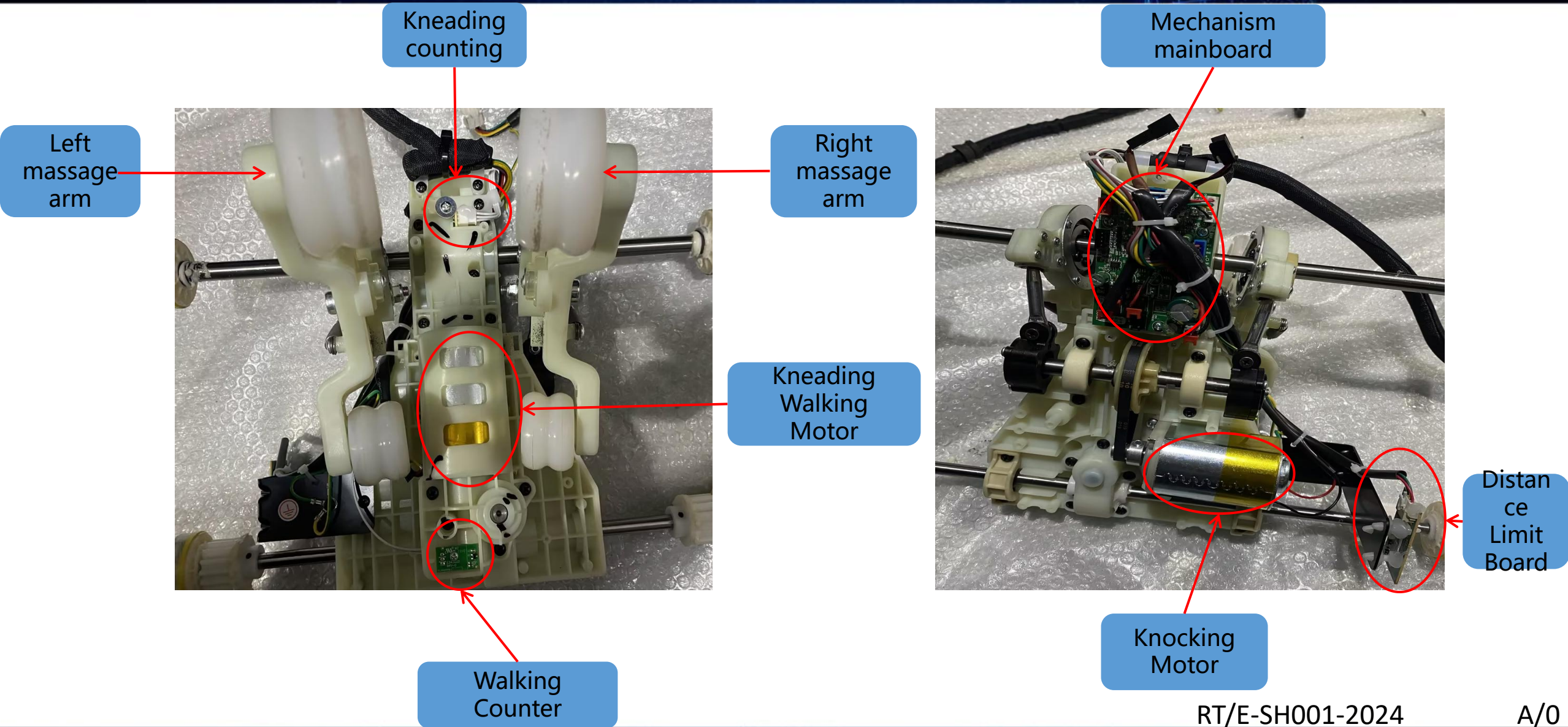
Upper Mechanism Diagram



RT/E-SH001-2024

A/0

Lower Mechanism Structure



RT/E-SH001-2024

A/0

1. The touchscreen cannot control the massage chair

2. Burnt fuse

3. Kneading motor not working

4. Mechanism cannot detect width

5. Tapping motor not working

6. Walking motor not working

7. Mechanism airbag not working

8. Legrest actuator not working

9. Backrest actuator not working

10. legrest extension not working

11. Foot roller not working

12. Airbags not working

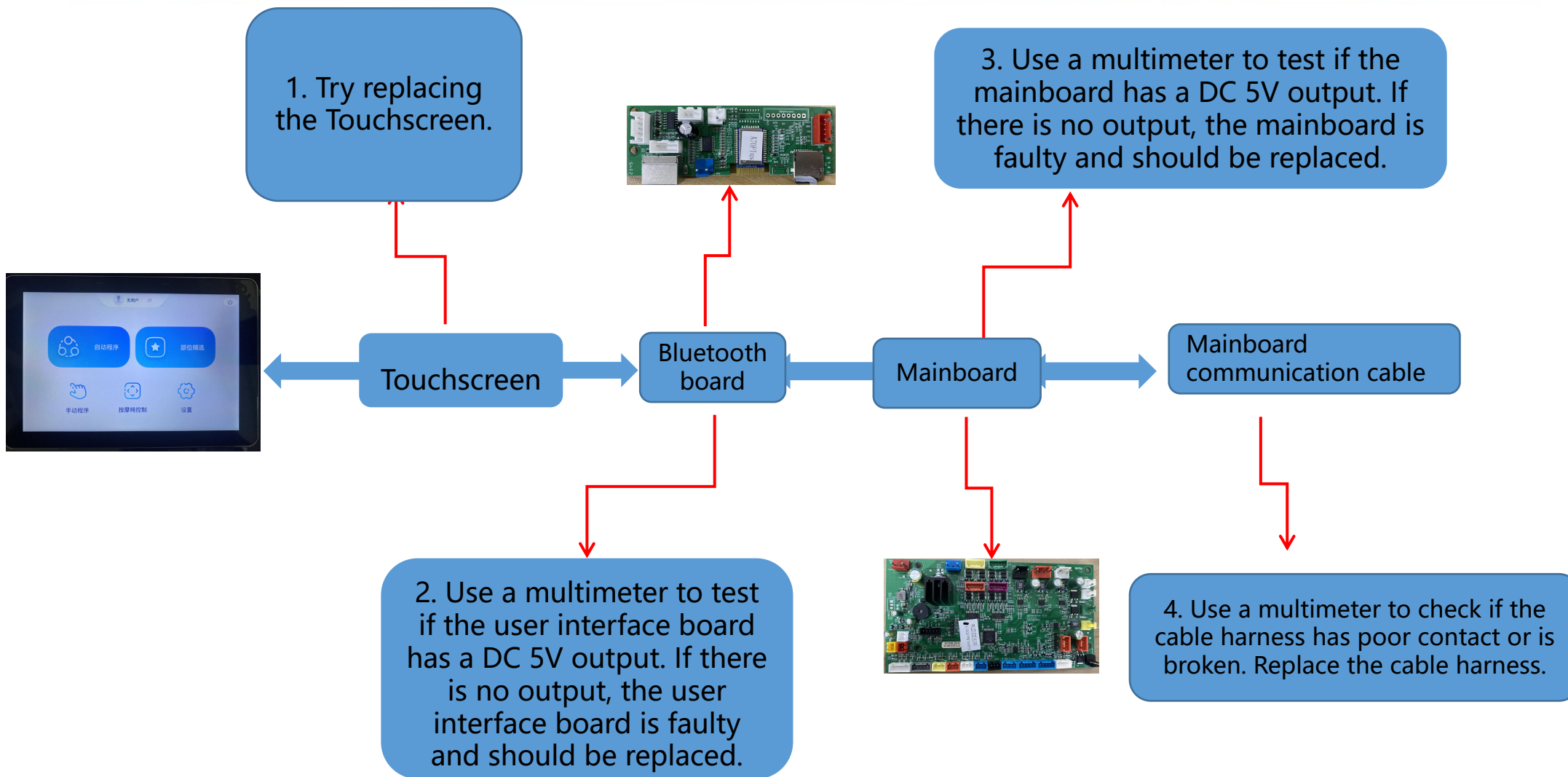
13. Button pad not working

14. Wireless charger not working

15. Massage chair error alert

16. Body scan no results

1. The touchscreen cannot control the massage chair



2. Burnt fuse

1. Replace the fuse with the same type if the voltage fluctuations cause the fuse to blow out.



3. If the fuse is not blown, turn off the power and plug the connector back to power supply board, unplug the transformer 220V connector, turn on the power, if the fuse is blown, power board is short circuited and need to be replaced.

Burnt fuse

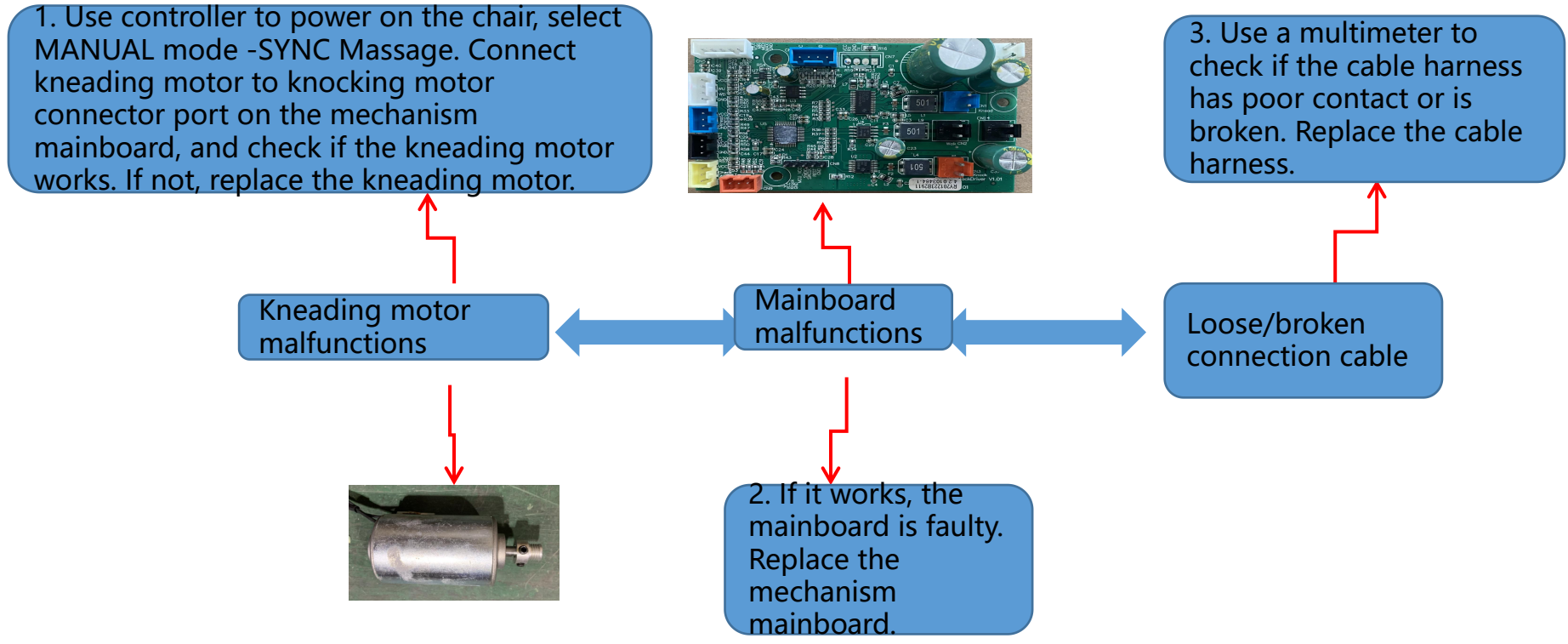
Filter board is short circuited

Power board is short circuited

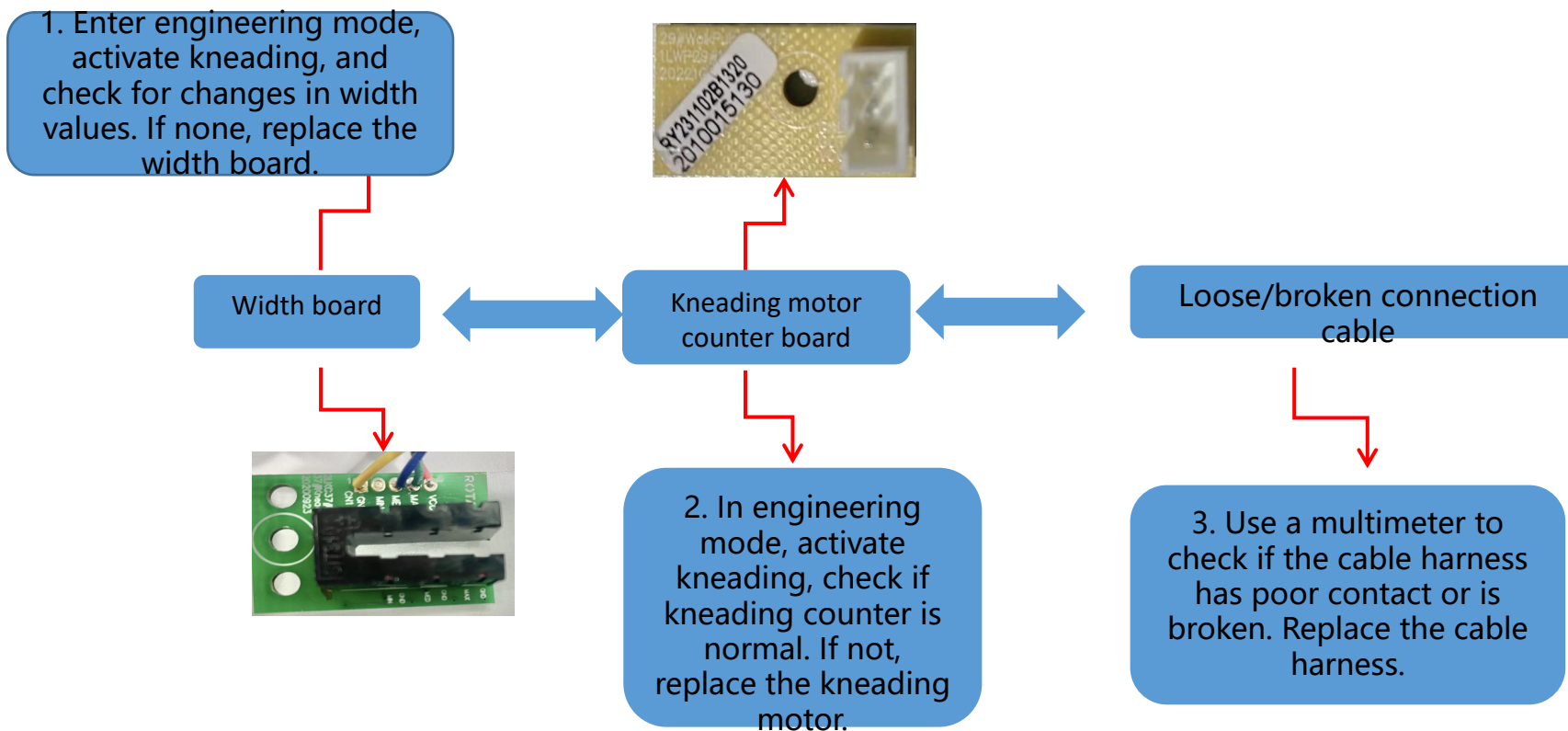
2. If the fuse is blown again, unplug the red marker connector on the power supply board and power on, if fuse is blown again then replace a filter or filter board.



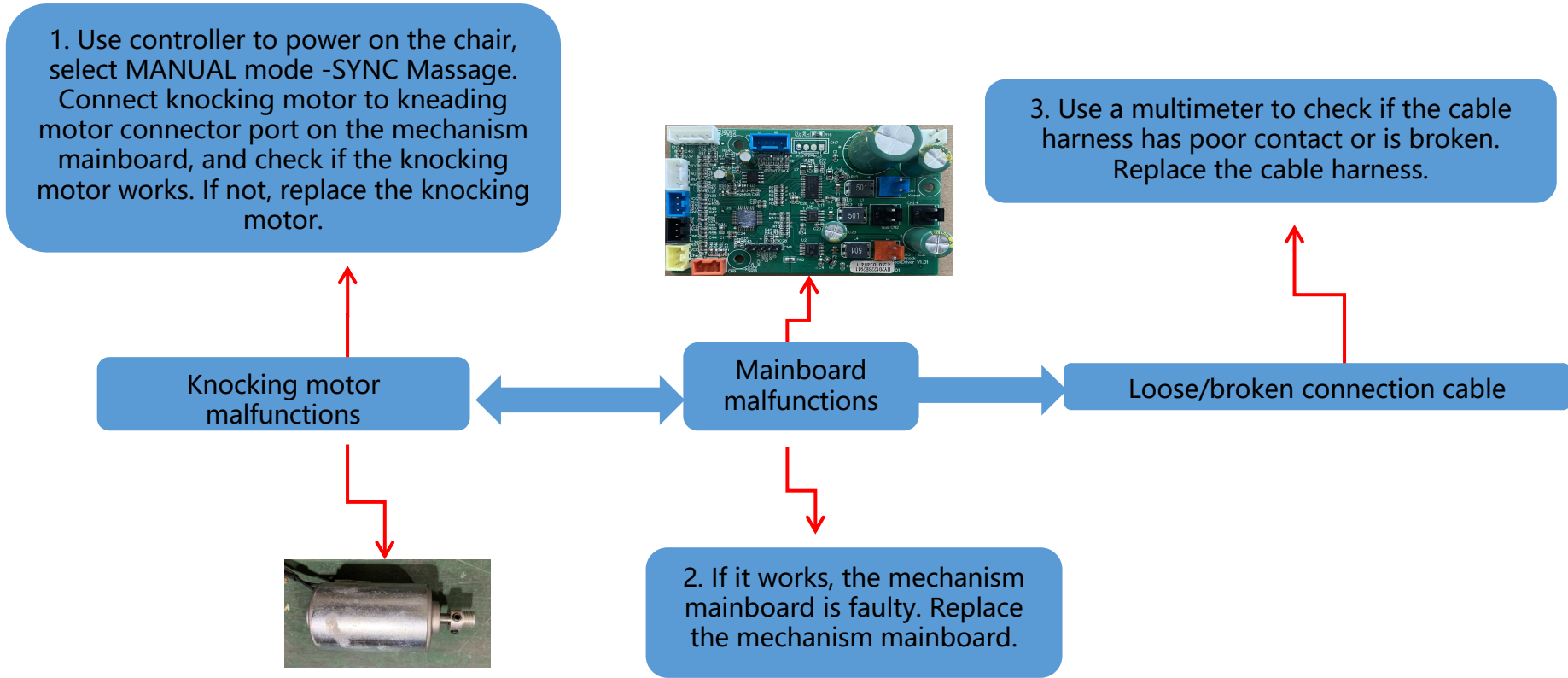
3. Kneading motor not working



4. Mechanism cannot detect width

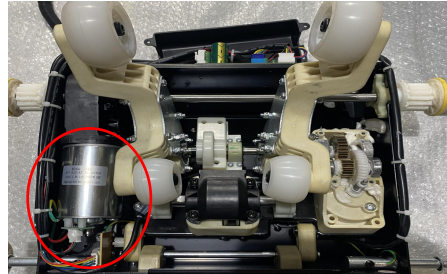


5. Knocking motor not working



6. Walking motor not working

1. Switch on the controller and power on the chair, select MANUAL mode-SYNC massage, then choose POINT massage, press the "UP" or "DOWN" button to check if there is no fast beep sounds from the controller, the upper distance limit board may be faulty (replace it) or the distance signal wiring harness may be broken or have a poor connection.



3. Plug the motor back to its original position, exchange walking motor connector and kneading motor connector to check if the walking motor functions. If motor moves then replace the mainboard, if motor fails to move, the motor cable is loose or broken, replace with a new cable.

Distance limit sensor board is damaged

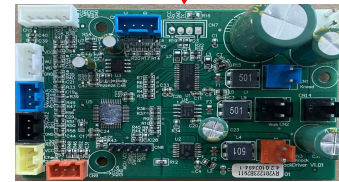
Walking motor malfunctions

Mainboard malfunctions

Loose/broken connection cable



2. If both have slow single beeping sound, the limit sensor signal is good, then unplug mechanism walking motor connector (black color) and plug it into tapping motor connector socket (red color) to check if walking motor works. If no, the motor is damaged and needs to be replaced.



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

7. Mechanism airbag not working



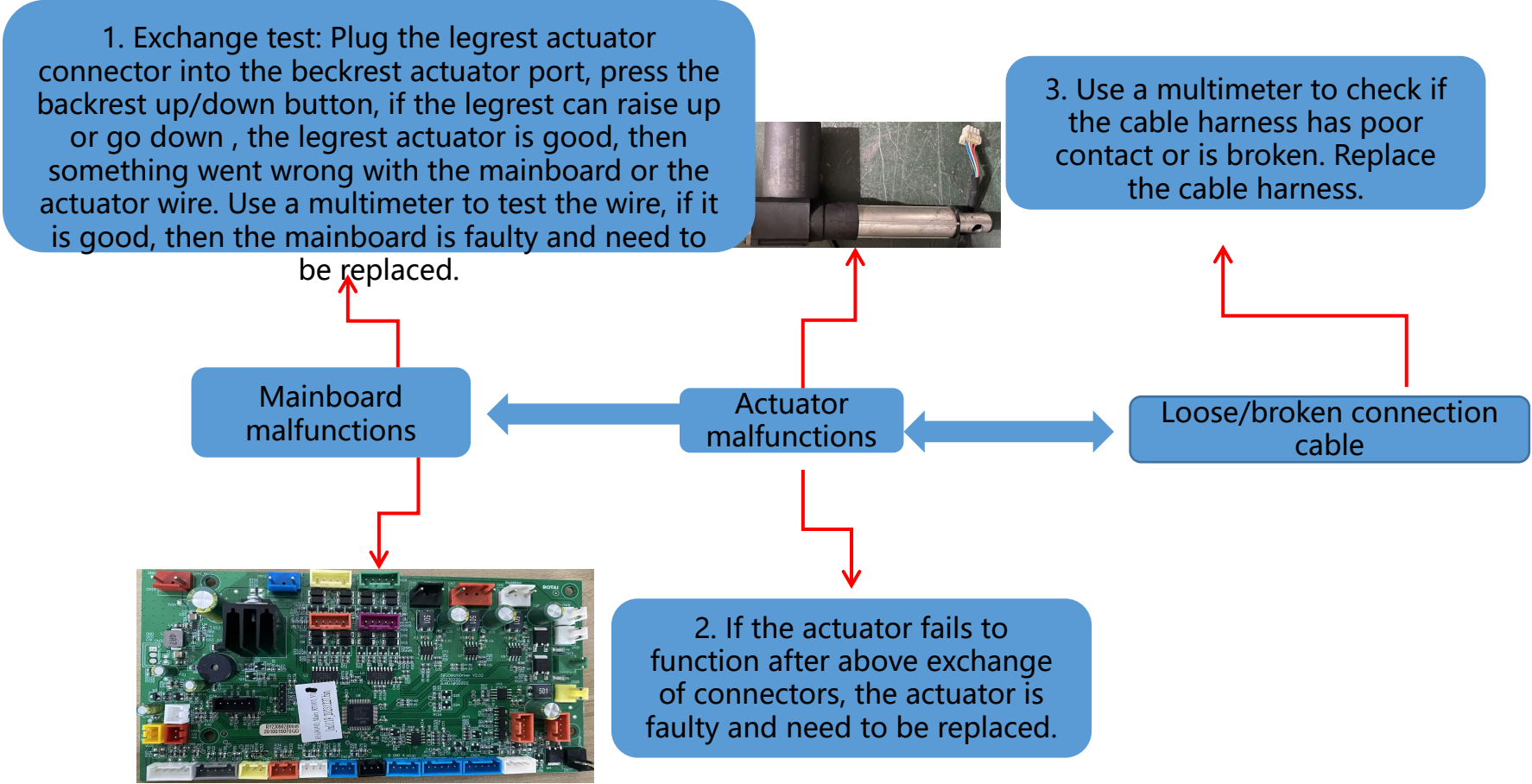
Mechanism air
pump
malfunctions

Mainboard malfunctions

1. Use a multimeter to measure the mainboard; if the mechanism's air pump connector has a DC 24V output, the mechanism's air pump is faulty and should be replaced.

2. Use a multimeter to measure the mainboard; if the mechanism's air pump connector has no DC 24V output, the mainboard is faulty and should be replaced.

8. Legrest actuator not working



9. Backrest actuator not working

1. Exchange test: Plug the backrest actuator connector into the legrest actuator port, press the legrest up/down button, if the backrest can raise or recline, the backrest actuator is good, then something went wrong with the mainboard or the actuator wire. Use a multimeter to test the wire, if it is good, then the mainboard is faulty and need to be replaced.



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

Mainboard malfunctions

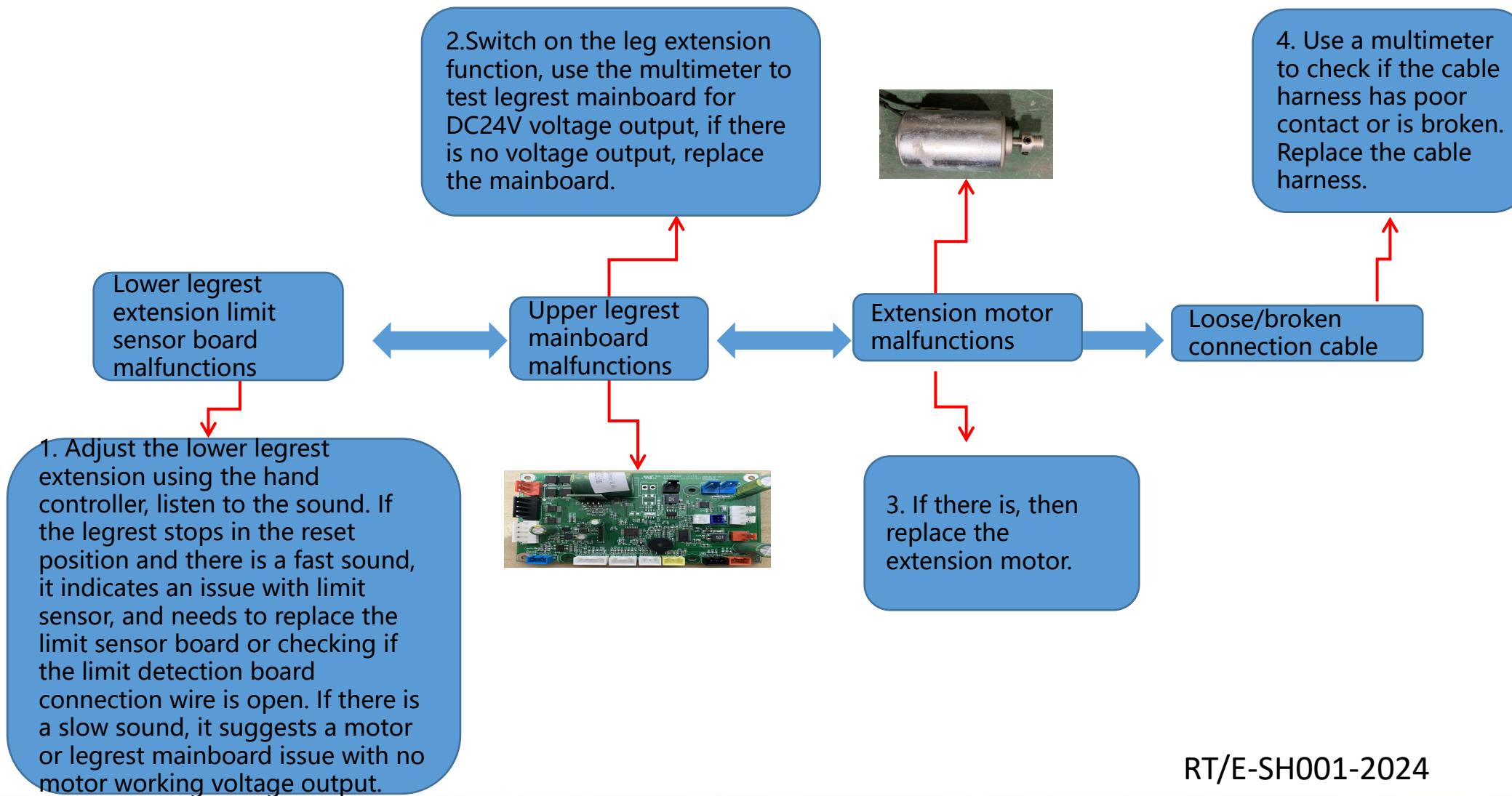
Actuator malfunctions

Loose/broken connection cable

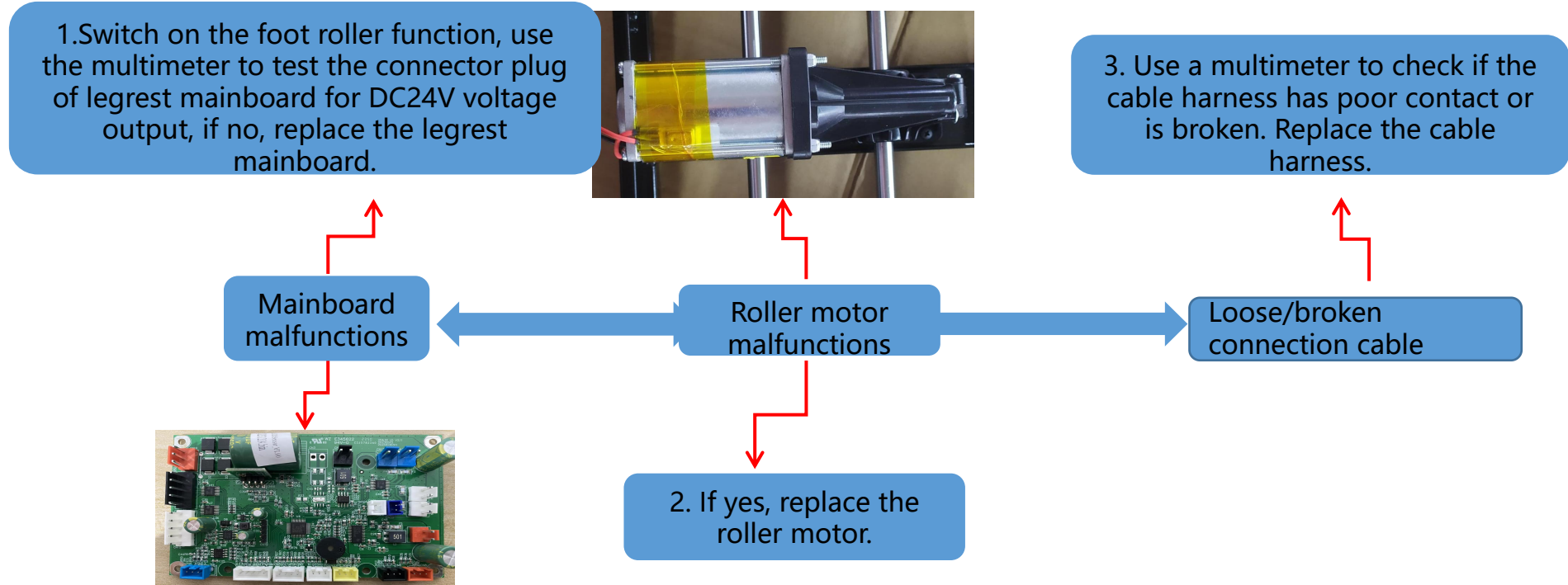


2. If the actuator fails to function after above exchange of connectors, the actuator is faulty and need to be replaced.

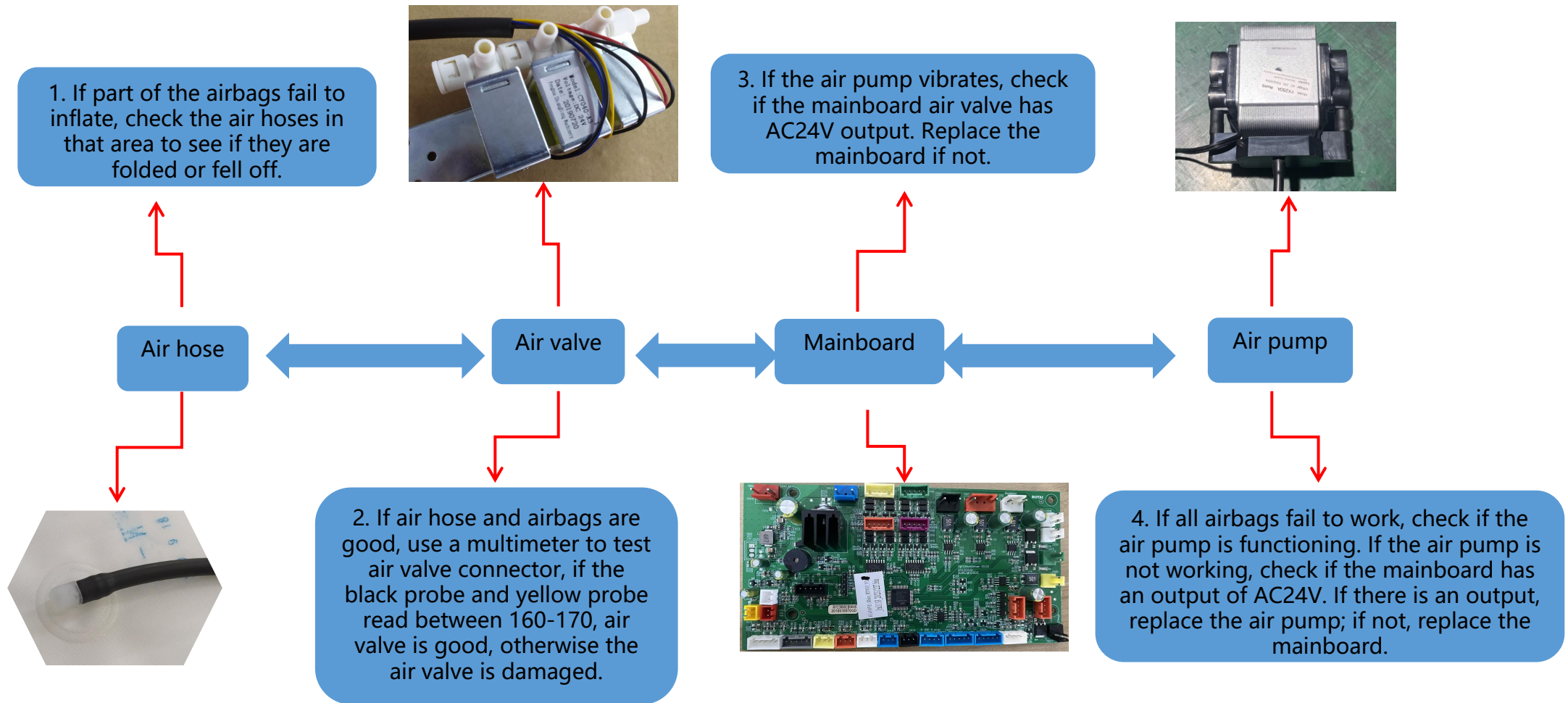
10. Legrest extension motor not working



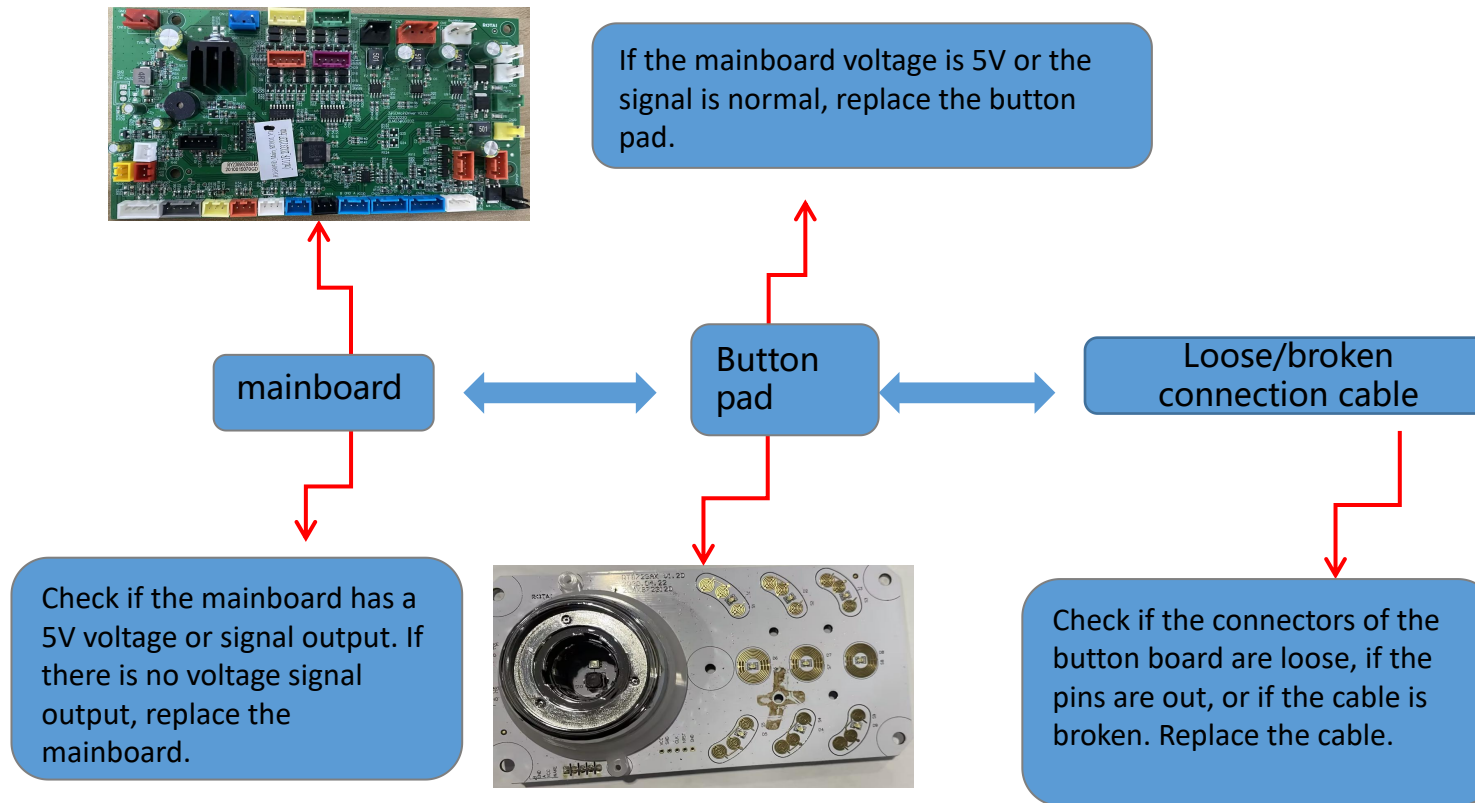
11. Foot roller motor does not work



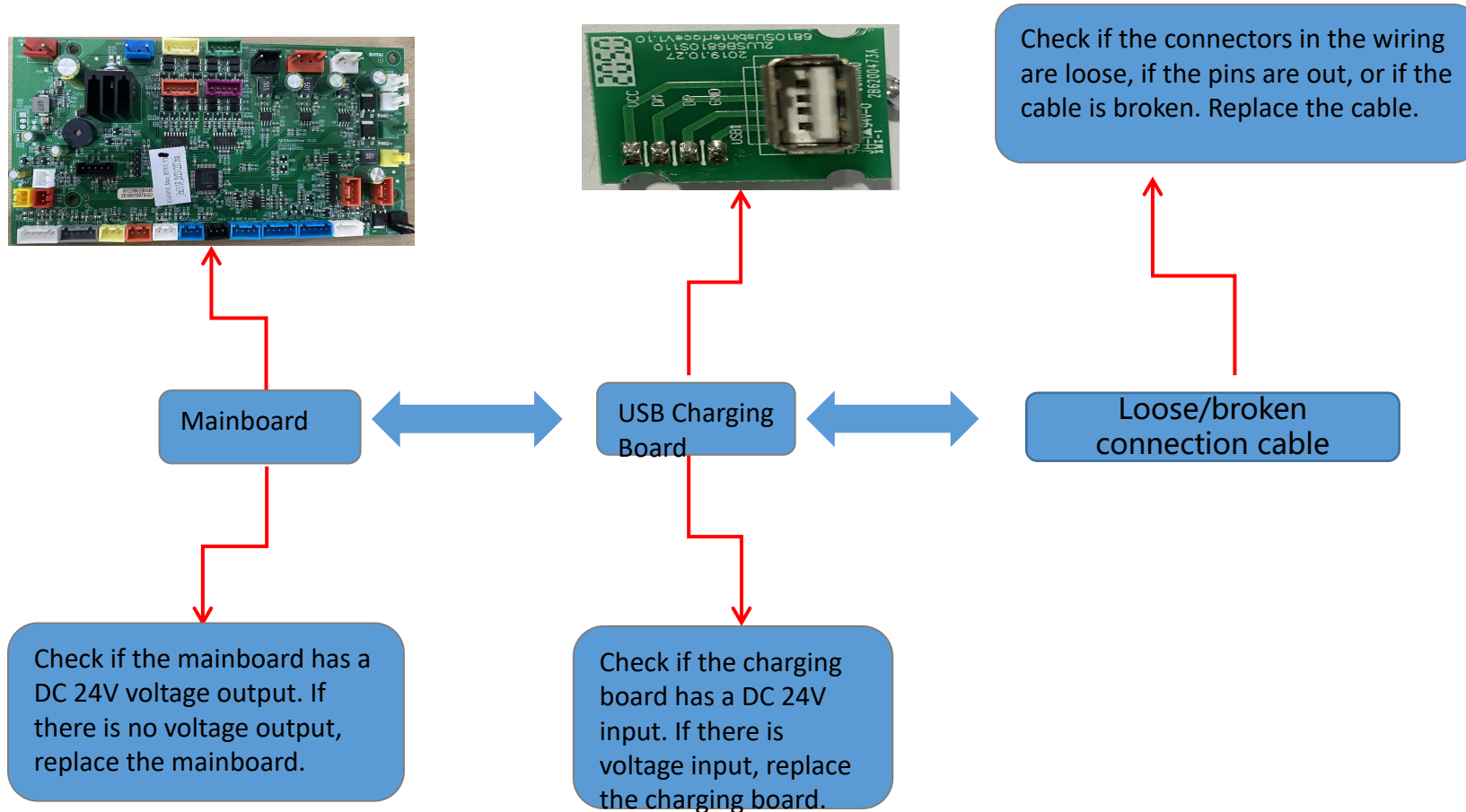
12. Airbags not working



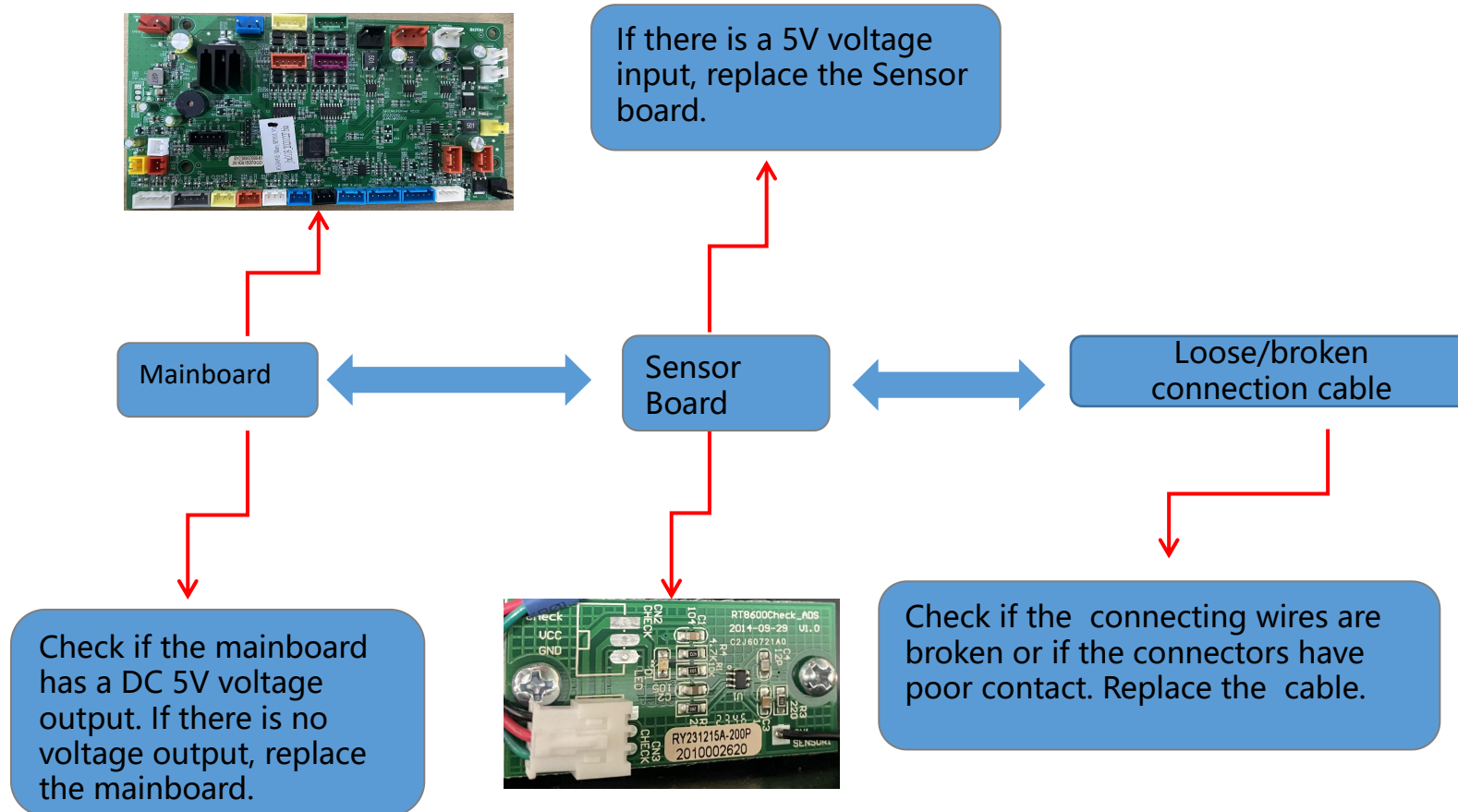
13. Button pad not working



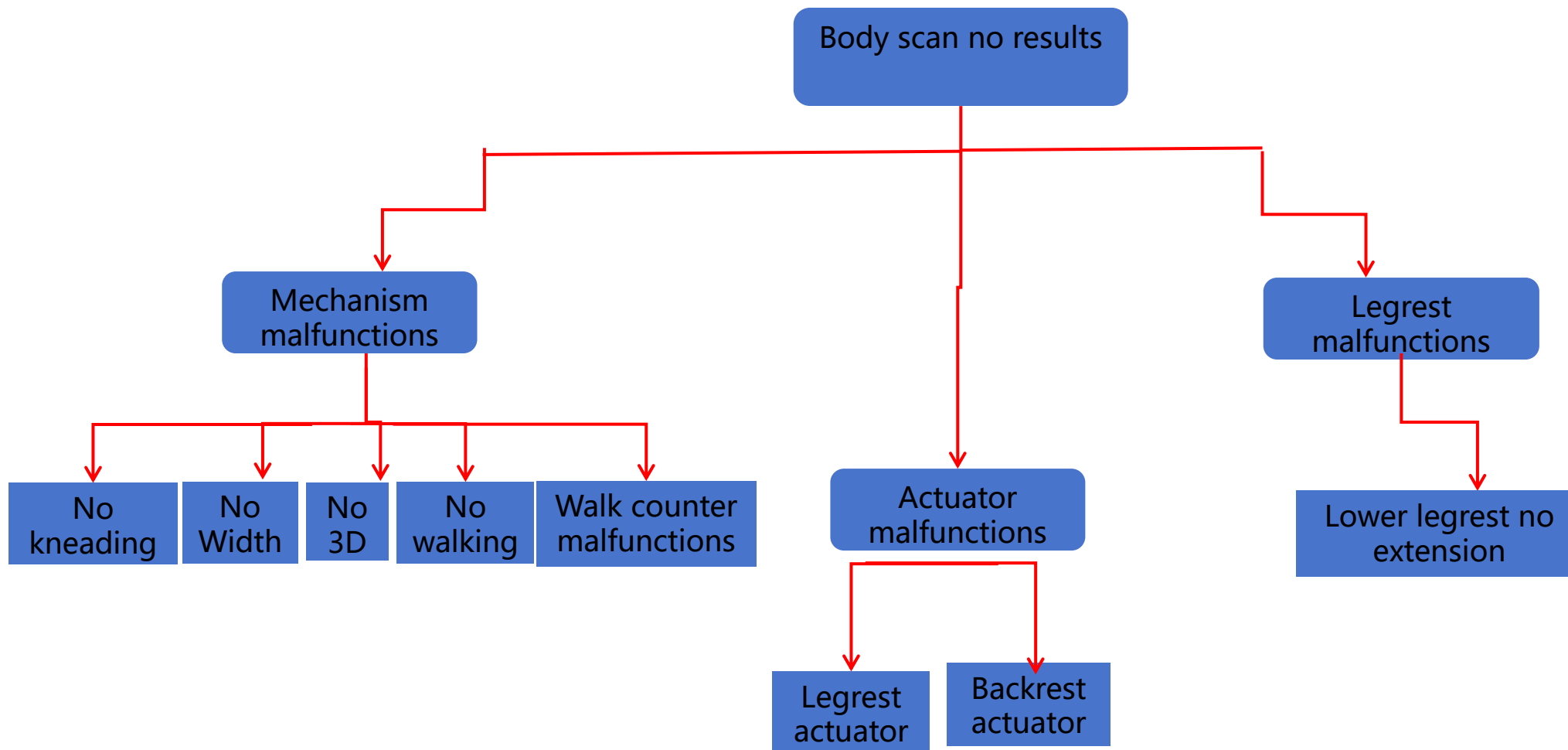
14.USB charger not working



15. Massage chair error alert



16. Body scan no results



ROTAI
荣泰



ROTAI
More Professional Massage Chairs