

Titan Luca V (YH-8250L) Maintenance Manual



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1. 产品预防措施进行检查和维修Precautions for inspection and repair

检查: Inspection

- 确认机器的电源线是连接好的

Verify that the power cord is tightly connected on the machine.

- 小心避免电击

Be careful to avoid electric shock.

维修:Repair

- 维修前需先关闭电源供电

Power off the supply before repair work begins.

- 维修过程中保持整洁

Keep things tidy and in order during repair work.

- 当更换多个部件时，确定损坏的部件和重新使用的部件

When changing more than one part, identify the parts that are damaged and reuse the serviceable parts.

- 在拆除装配过程中，不损坏其他部件和PCB

During the dismantling or assembling process, do not damage other parts and PCB.

- 小心提防松动或断开连接的连接器再进行修理

Be on the alert for loose or disconnected connectors during repair.

- 装配完成后不要留下螺丝或其他部件

Do not leave any screws or other foreign objects in the unit after it is assembled.

- 维修完成后，确认产品是否恢复正常工作

Carry out test operation of the machine after the repair work is done.

- 维修工作最好在地毯上进行，防止产品划伤或弄脏

It is preferable to perform the repair work on a carpet to prevent scratching or dirtying the unit.

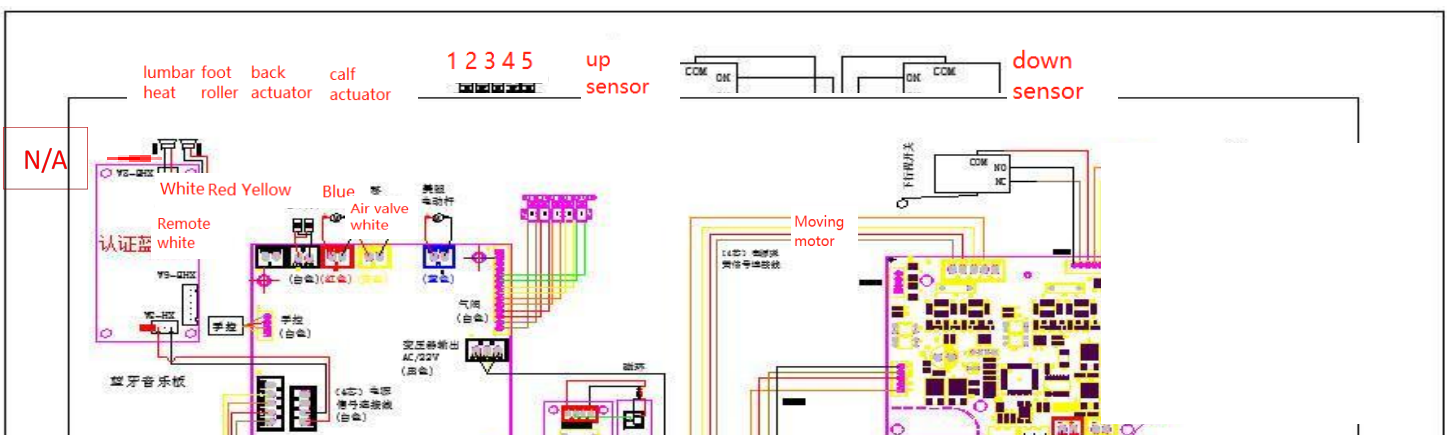
- 维修完成后清理工作现场

Clean the workplace after repair work is completed.

2. 产品规格说明 Product specification

Product name	Massage chair
Model	Titan Luca V
Power supply	120V 60Hz
Rated power	150W
Rated working time	15min

3. 布线图 Wiring diagram



Transformer
 AC/22V Out+
 White+
 4pin power signal
 connector white
 transformer
 air pump AC/120V in
 yellow red power supply
 AC/120V in

Tapping motor+
 Kneading motor-

4pin power signal
 connector white

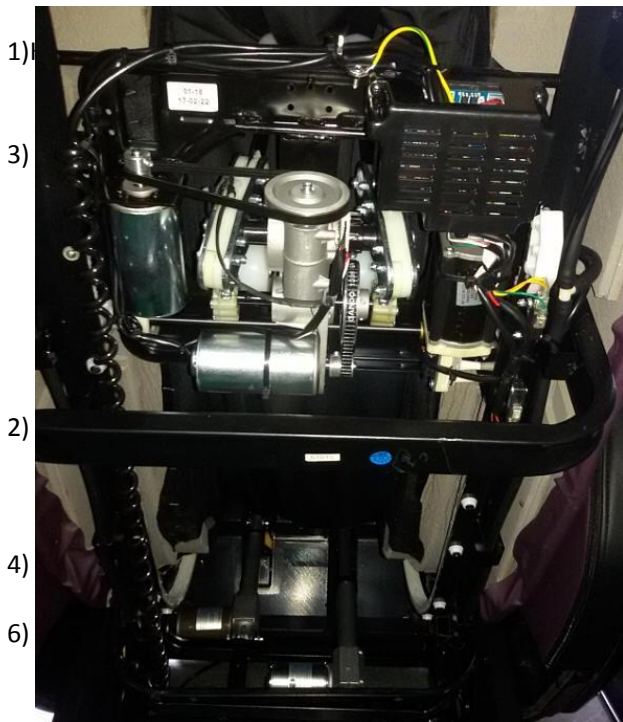
Remote

Width signal board

Infinity Aura wiring diagram

Titan Luca V air valve outlet diagram

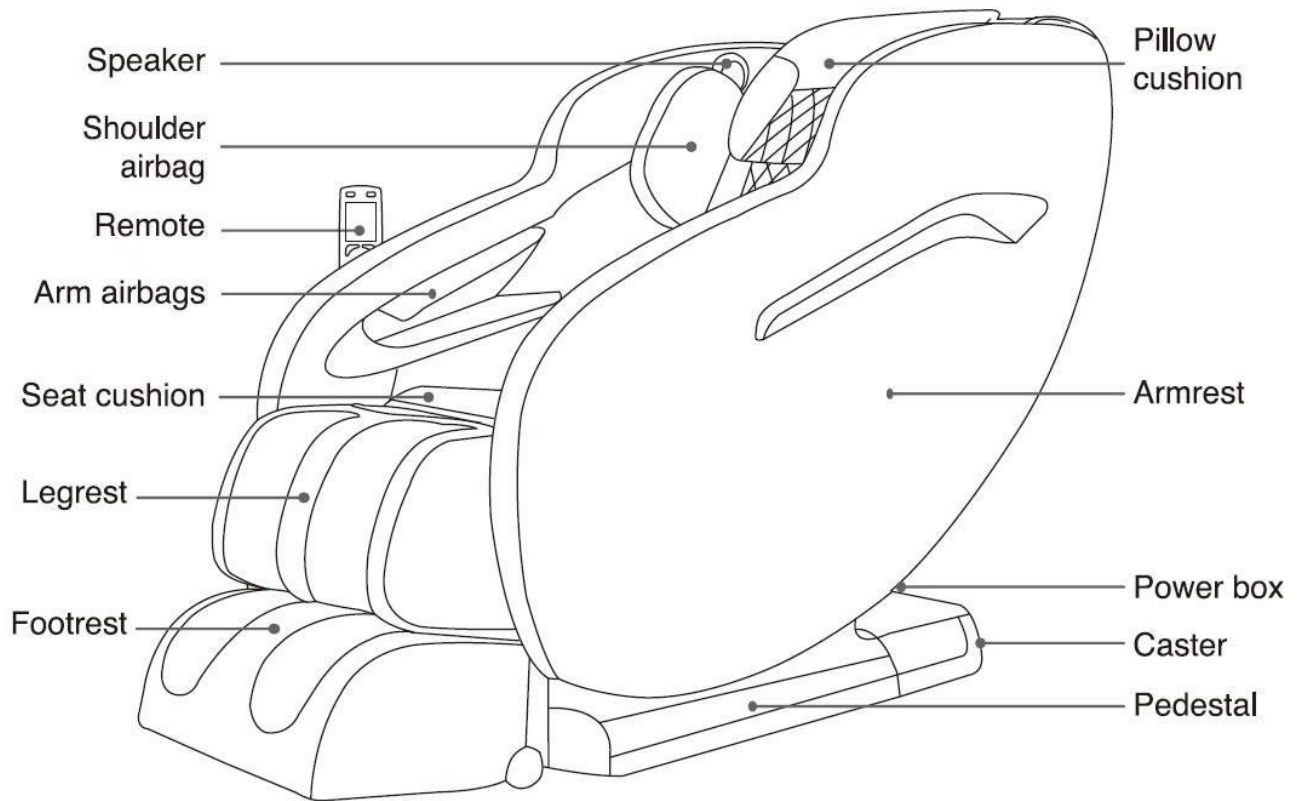
Solenoid valve No.	(white)	
1	V7	Foot 4 bags
2	V6	Calf 4 bags
3	V5	Left arm air bags
4	V4	Right arm air bags
5	V3	Shoulder air bags
	V2	NA
	V1	NA



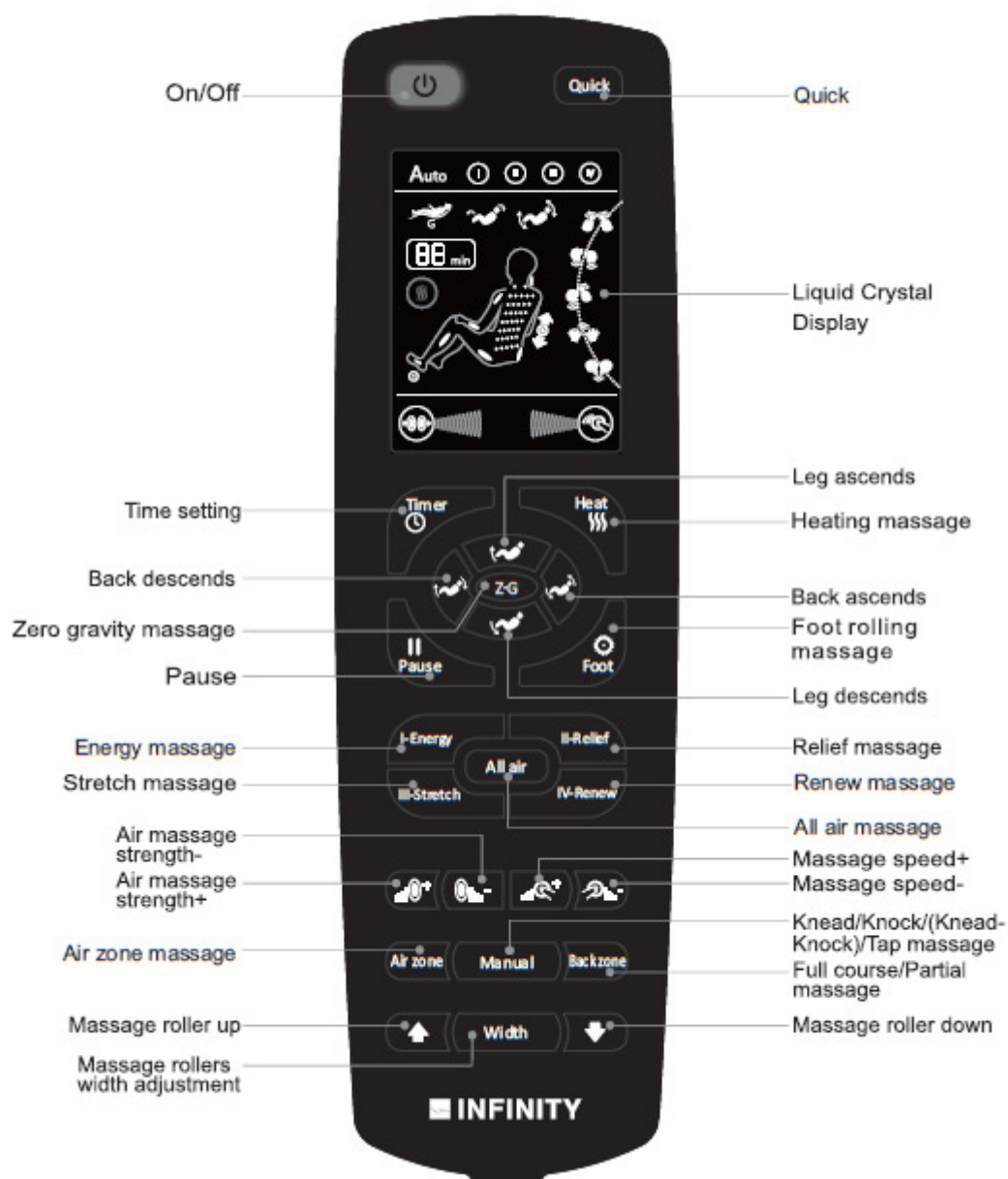
5)Footrest actuator motor



4. YH-8250各部名称 Each part name of Luca V



5. YH-8250手控说明及操作方法 Remote control specification



6. 气压按摩 Air massage position

- 1 Shoulder air bags
- 2 Left arm air bags
- 3 Right arm air bags
- 4 Calf air bags
- 5 Foot air bags



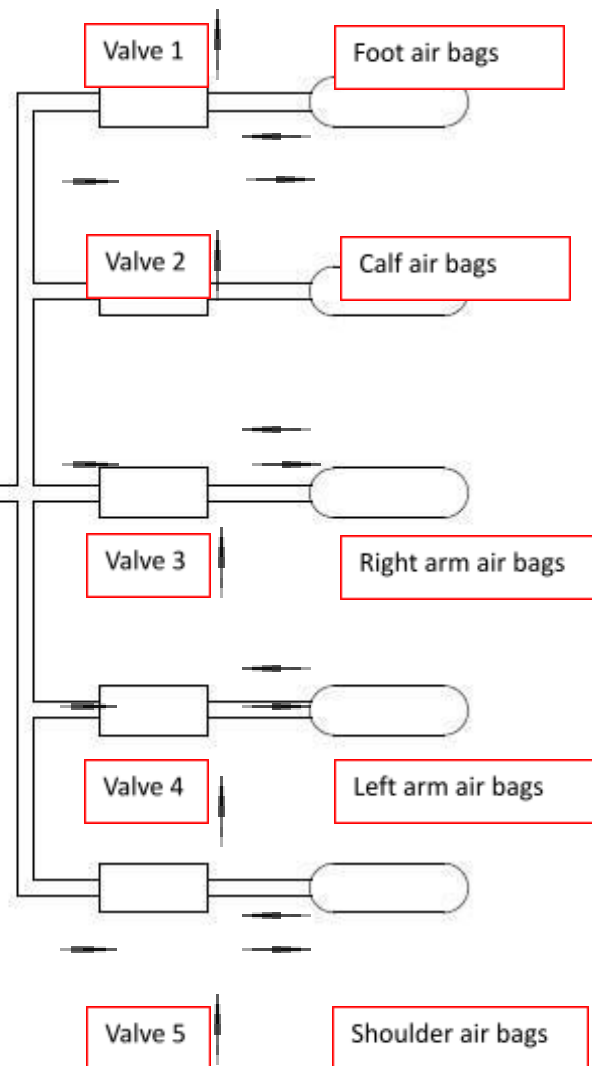
6.1 气压气路图解 Air valve diagram

气阀1
脚部四侧气袋

气阀2
腿部四侧气袋
气泵

扶手右气袋
气阀3

扶手左气袋
气阀4



夹肩气袋
气阀5



6.2 电磁阀接线图 Solenoid valve wiring diagram

6.2.1 注意电磁阀与气管一一对应，不能错位。Note that the solenoid valve corresponds to the air pipe one by one and cannot be misaligned.

6.2.2 接插件端子完好并插到位，不能松动。The connector terminals are intact and inserted into the position, and cannot be loosened.



7. 按摩椅故障检测表 Massage chair trouble lists

"A" board= Massage mechanism PCB

"B" board= Bottom box PCB

Phenomenon	Fault area	Cause	Maintenance steps and methods
The whole machine can't work	1. fuse 2. switch 3. Transformer plug 4. Hand control plug 5. "B" board (Bottom box PCB)	1. Fuse borken 2. Power switch is broken 3. Transformer plug, hand control plug are not plugged in or off 4. "B" board damaged	<pre> graph TD A[Chair doesn't work] --> B[Power on switch] B --> C[Power light on or not] C -- No --> D[Change fuse or re-insert the plug] C -- Yes --> E[Transformer has 20V out or not] E -- No --> F[Re-insert the transformer connector] E -- Yes --> G[Chair works or not] G -- Yes --> H[Done] G -- No --> I[Replace bottom box PCB] </pre>

<p>The remote controller or remote screen does not work</p>	<p>1. Remote controller 2. Remote control plug 3. "A" board (Mechanism PCB)</p>	<p>1. The hand controller is damaged 2. The hand controller plug is not plugged in 3. "A" board damaged</p>	<pre> graph TD Start[Remote doesn't work or display] --> Step1[Turn on remote] Step1 --> Step2{Beep sound or not} Step2 -- NO --> Action1[Re-connect remote wire or replace remote] Step2 -- YES --> Step3{Human body icon display?} Step3 -- YES --> Action2[Replace "A" board] Step3 -- NO --> Step4{Buttons are working?} Step4 -- YES --> End[Done] Step4 -- NO --> Action3[Change remote] Action1 --> Step1 Action2 --> Step1 Action3 --> Step1 </pre>
<p>Turn on the power massage chair and start the massage</p>	<p>1. "A" board (Mechanism PCB)</p>	<p>1. "A" board broken</p>	<p>Change "A" Board (mechanism PCB)</p>
<p>Air pump does not work</p>	<p>1. air pump 2. B board 3. Air pump cable</p>	<p>1. Air pump is broken 2. B board damage 3. The air pump cable is not plugged in.</p>	<pre> graph TD Start[Air pump does not work] --> Step1{Check air pump wire is connected good?} Step1 -- NO --> Action1[Re-connect the pump wire, works?] Step1 -- YES --> End[Done] Action1 -- YES --> End Action1 -- NO --> Step2[Use a multimeter to measure whether the resistance of the air pump is around 550 ohms.] Step2 -- YES --> Action2[Change "B" board] Step2 -- NO --> Action3[Change air pump] Action2 --> End Action3 --> End </pre>
<p>Moving motor does not work</p>	<p>1. A board 2. Moving motor 3. Mobile motor connection cable</p>	<p>1. A board damage 2. Mobile motor damage 3. The mobile motor connection is broken or the plug is not connected.</p>	<pre> graph TD Start[moving motor doesn't work] --> Step1[In manual mode, press up & down button] Step1 --> Step2{moving motor is working?} Step2 -- YES --> End[Done] Step2 -- NO --> Step3{Measure A board moving motor connector is 24V?} Step3 -- YES --> Action1[Change Motor] Step3 -- NO --> Action2[change A board] Action1 --> Step4{check connection wire and plug is good?} Action2 --> Step4 Step4 -- YES --> End Step4 -- NO --> Action3[Change connection wire] Action3 --> Step1 </pre>

<p>Kneading motor does not work</p>	<p>1. A board 2. Kneading motor 3. Kneading motor cable connection</p>	<p>1. A board damage 2. Kneading motor damage 3. Kneading motor connection is broken or the plug is not connected</p>	
<p>Tapping motor does not work</p>	<p>1. A board 2. Tapping motor 3. Tapping motor cable connection</p>	<p>1. A board damage 2. Tapping motor damage 3. Tapping motor connection is broken or the plug is not connected</p>	
<p>Foot roller does not work</p>	<p>1. Foot roller motor 2. B board 3. Foot roller motor wire connection</p>	<p>1. Foot roller motor is broken 2. B board is broken 3. Foot roller motor wire connection loose</p>	

<p>Backrest actuator does not work</p>	<p>1. Backrest actuator 2. B board 3. Actuator connection wire</p>	<p>1. Actuator is broken 2. B board is broken 3. Actuator connection wire is loose</p>	
<p>Air pressure massage does not work or abnormal</p>	<p>1. Air pipe 2. Solenoid valve 3. B board</p>	<p>1. Air pipe is over twisted 2. Solenoid valve is broken 3. "B" board is broken</p>	

8. 更换零部件注意事项 Precautions for parts replacement

8.1 更换A板注意事项 Precautions for Replacing the "A" Board (Massage mechanism PCB)

- 1) 关闭电源开关并拔掉电源插头 Turn off the power switch and unplug the power plug
- 2) 拆后盖: 拆后盖时要先拆下面的螺钉 Disassemble the back cover: Remove the 2 screws at lower back in advance when disassemble the back cover





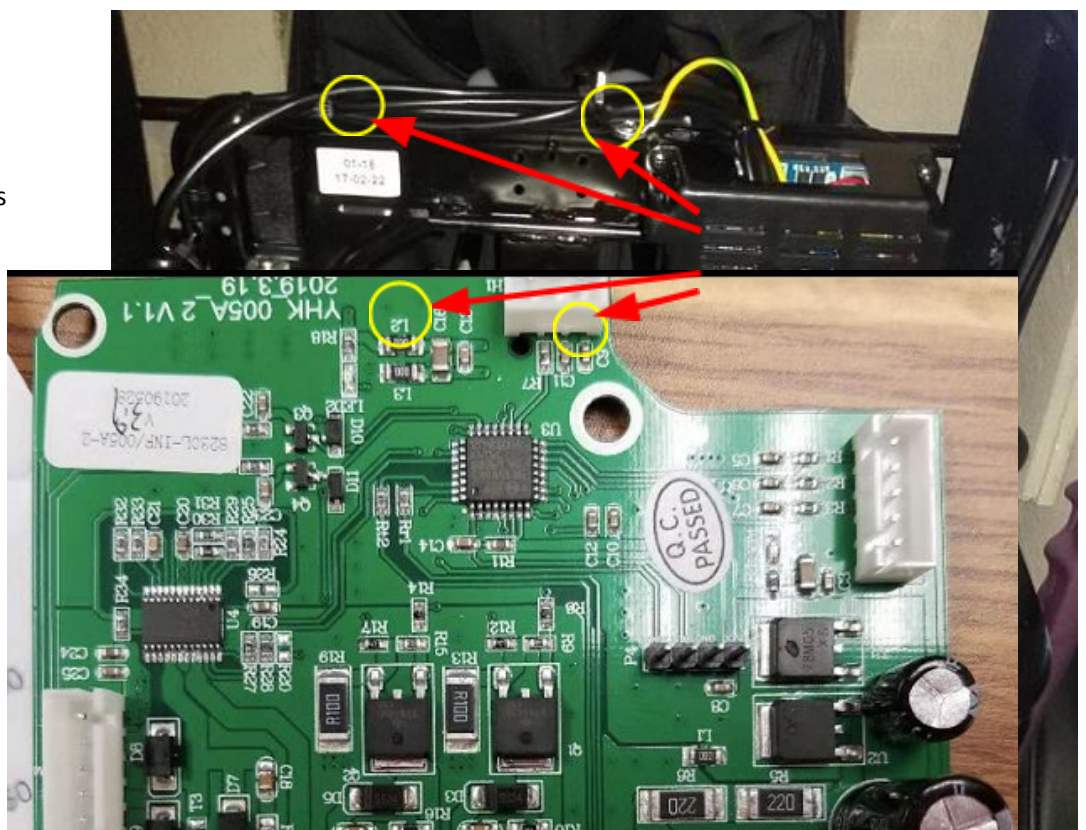
4 screws at back cover

3) 拆后效果 After back cover removed

The mechanism PCB box is located here

4) 拆电路板盒上盖。Disassemble the cover of mechanism PCB box

Unscrew the four screws



5) 拔下所有电路板插线。Disconnect all cables from connectors.
Moving motor counter socket

Width signal socket

Limit switch(up & down sensor) socket

Note: When replacing the board, please take a photo to record the positions of each connector in case mistake

Power signal socket

Kneading motor

Tapping motor socket

Moving counter socket

6) 更换新的电路板。Replace the new board.

7) 插上电源, 开机试一下各个功能是否正常。Power on the chair and try to check if the functions are good.

8) 各功能正常后盖上电路板盒和后盖。Cover and lock the circuit board box and the back cover.

8.2 更换B板注意事项 Precautions for Replacing the "B" Board (Bottom box PCB)

1) 关闭电源开关并拔掉电源插头 Turn off the power switch and unplug the power plug

2) 拆尾箱上盖 Remove the top cover of bottom box



Bluetooth power socket

AC120V input

Transformer input
Air pump

8.3 更换手控注意事项 **Precautions for remote controller replacement**

1) 拆开手控背后两个螺钉，再从侧面轻轻翘开。Disassemble the two screws on the back of the hand and gently pry open from the side

Please pry lightly open from the side in case broken



Remove 2 screws at remote backside

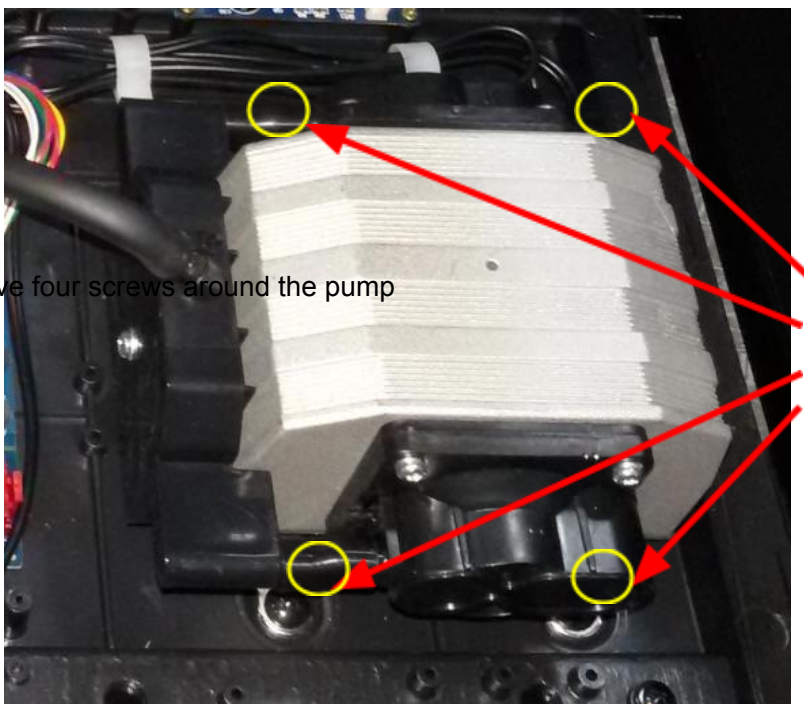


2) 拔掉手控线, 更换手控电路板。Unplug the cable and replace the remote controller PCB

8.4 更换气泵注意事项 Precautions for air pump replacement

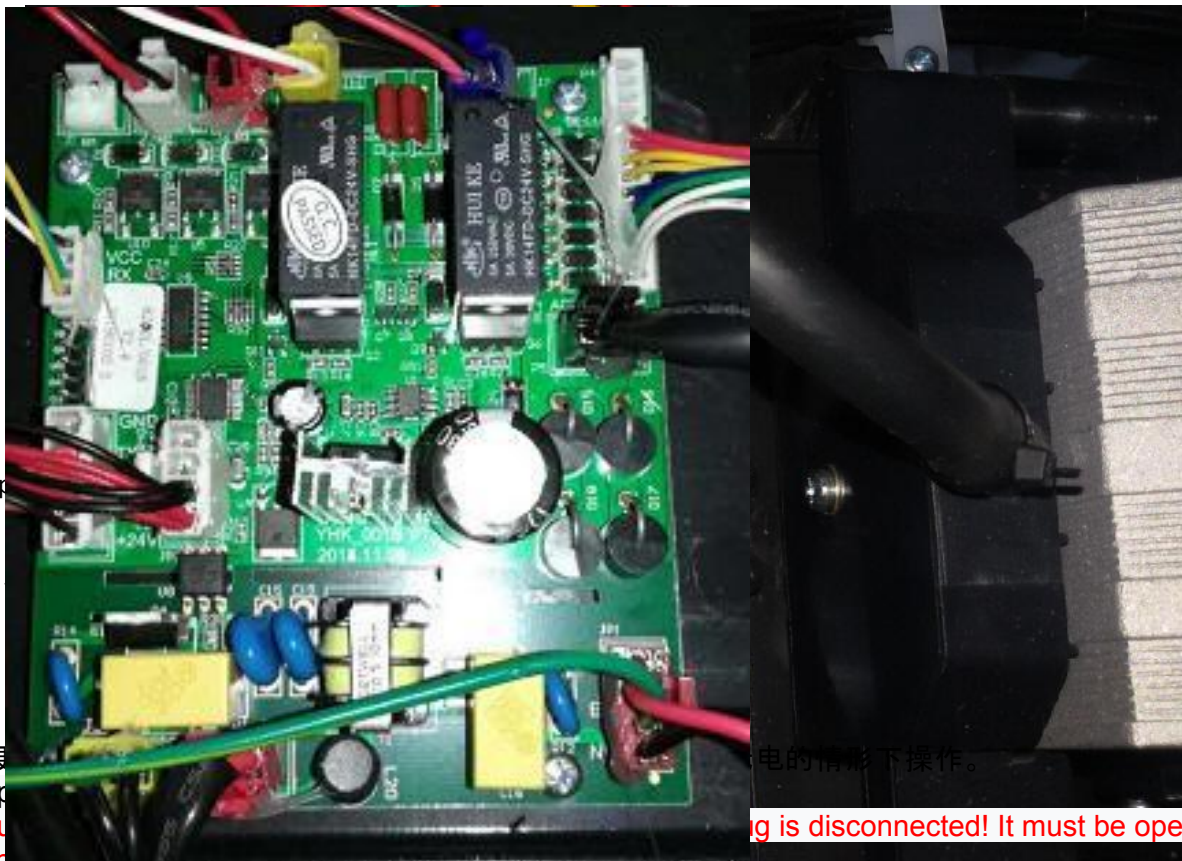
1) 先拆尾箱上盖, 方法与更换B板时拆尾箱盖方法一样。First remove the top cover of the bottom box, same method as 8.2.2

2) 拆气泵固定铁片。Remove four screws around the pump



Remove four screws around the pump

3) 拆气管及连线插头 Disconnect air pipe and air pump connector



Air p
Cut

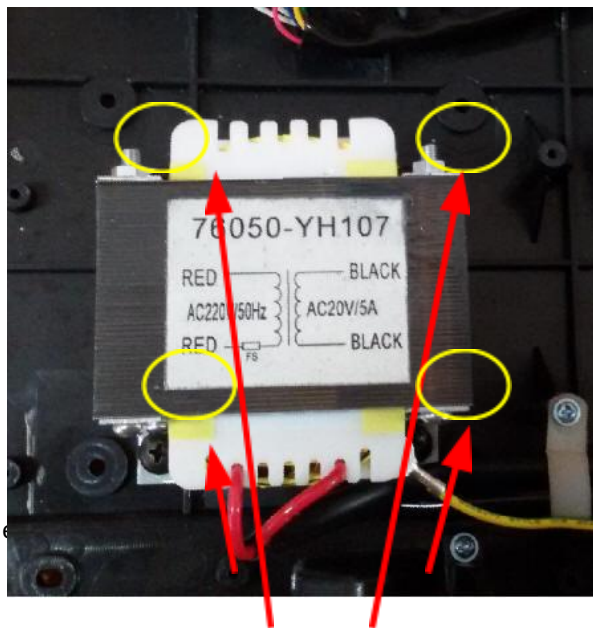
4) 更
Rep
Caution
without electricity...

电的情形下操作。

Power is disconnected! It must be operated

8.5 更换变压器注意事项 Precautions for replacing the transformer

1) 关闭电源，按下图拆掉固定螺钉。 Turn off the power and remove the fixing screws as below.



Remove 4 screws, please note that the new transformer is the same as original ones.

2) 更换变压器时注意输入与输出不能插反。 Replace new transformer.

Caution: When replacing the transformer, note that the input and output cannot be reversed.

Transformer output, black, AC22V

Transformer input, red

8.6 更换气阀注意事项 Precautions for air valves replacement

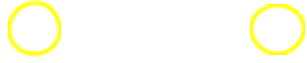
- 1) 更换气阀注意气嘴顺序不能乱。 Replace the air valve and pay attention to the order of the air pipe.

Air valve socket

8.7 拆后盖方法 Remove the back cover of backrest method

- 1) 拆后盖时要先拆下面的螺钉 Firstly, remove the 2 screws at bottom when remove the back cover





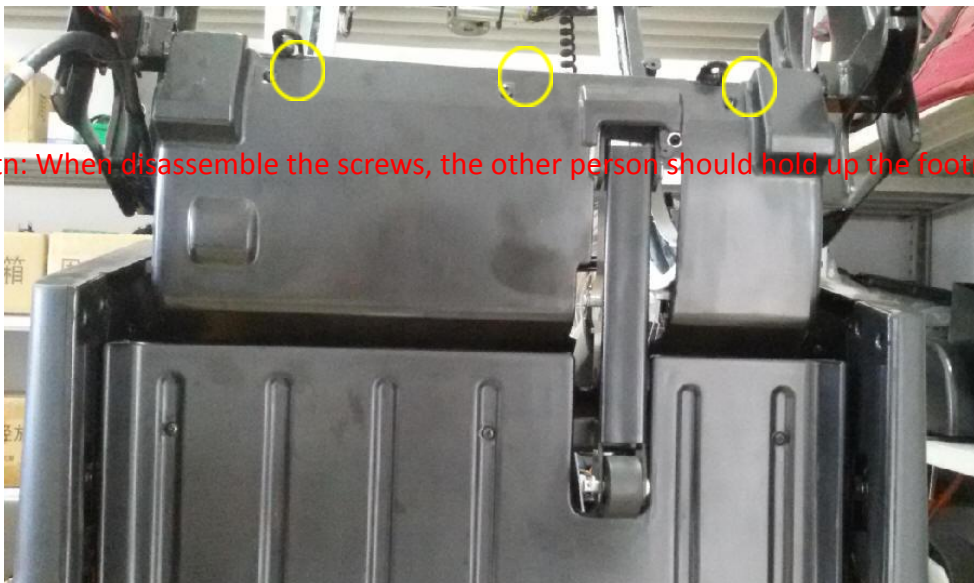
Remove the four screws. Disassemble the lower 2 screws in advance

2) 拆后效果 After back cover removed.



8.8 更换靠背和美腿电动推杆注意事项 Precautions for backrest actuator & footrest actuator replacement

- 1) 确认是否拔掉电源线，必须在无电的情形下进行以下操作。Make sure that the power cord is unplugged and the following operations must be performed without power.
- 2) 拆后盖及尾箱盖。Remove the back cover of backrest and bottom box
- 3) 掀起美腿，拆下前挡板。Lift up the footrest and remove the footrest back cover



Attn: When disassemble the screws, the other person should hold up the footrest



Lift up the footrest and remove the 9 screws



4) 拔下电靠背电动杆连线。Unplug the connectors of backrest actuator/ footrest actuator on PCBA in bottom box.

Footrest actuator
Backrest actuator



5) 卸下旧电动推杆。Remove the old backrest actuator /footrest actuator

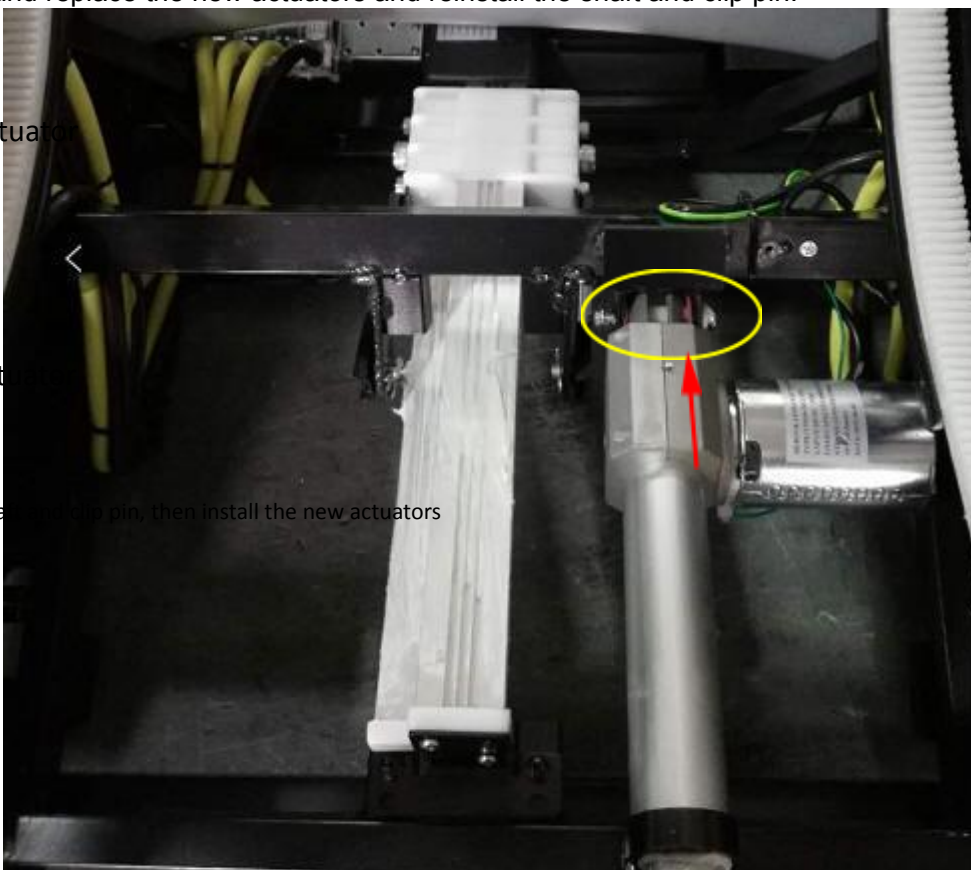
ATTN: When remove the backrest actuator, the other person should hold up the backrest in case of the backrest fall down due to the backrest lose support

6) 在确保按摩椅靠背有人稳定扶着情形下, 先拆座垫下销轴, 换上新电动推杆再重新装回销轴及卡销。
Under the condition that the other person hold up the backrest stably, then remove the shaft under the seat frame and replace the new actuators and reinstall the shaft and clip pin.

Backrest actuator

Footrest actuator

Remove the shaft and clip pin, then install the new actuators

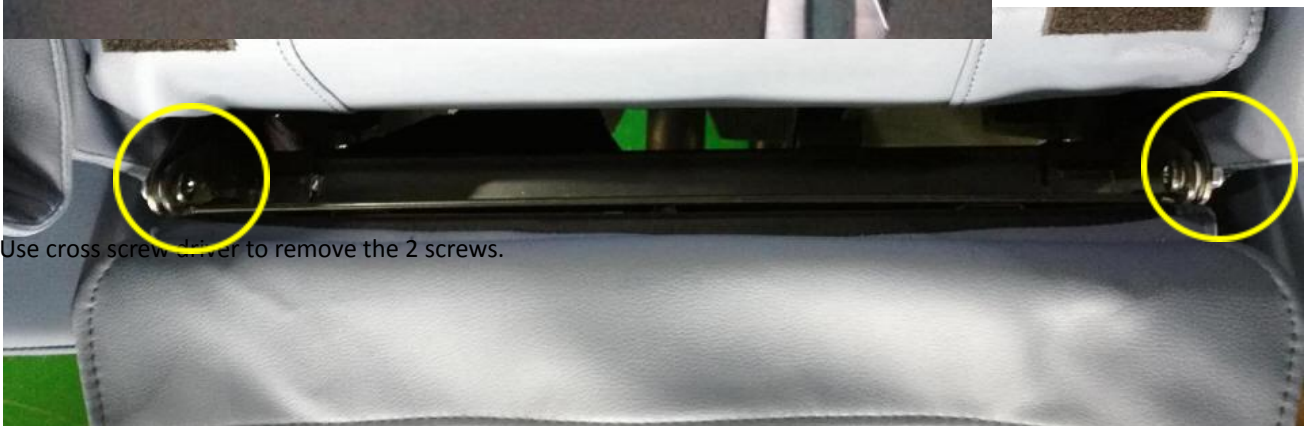


7) 将电动推杆插头插到B板上, 插好后注意先不要盖上尾箱盖, 先通电检查是否正常, 确认无误后再拔掉电源线, 扎好线束, 再盖上尾箱。

Connect the actuator wires to PCBA corresponding sockets, power on the chair, and check if the function is good or not. Then use cable tie to fasten the cables and close the bottom box.

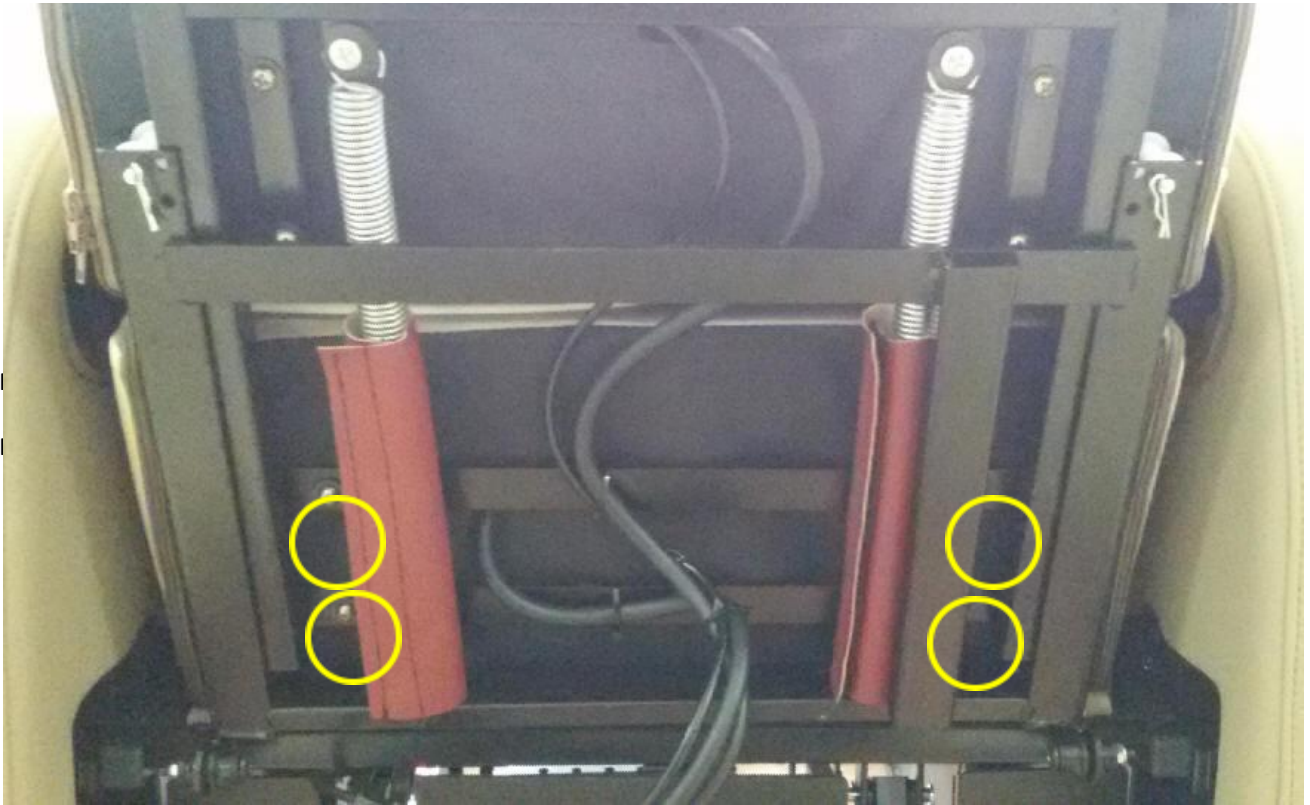
8.9 更换滚轮电机注意事项 Precautions for foot roller replacement.

1) 拔下气管及电机连线 Pull out the footrest air pipe and disconnect the footrest roller cable.

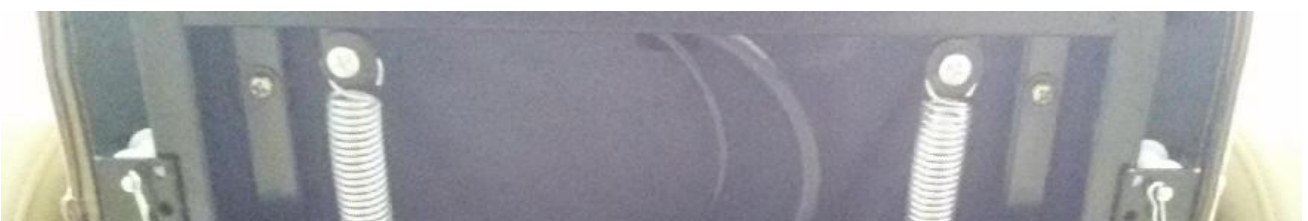


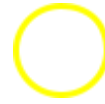
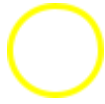
Use cross screw driver to remove the 2 screws.

3) 拆美腿上节方法 Disassemble the upper footrest method

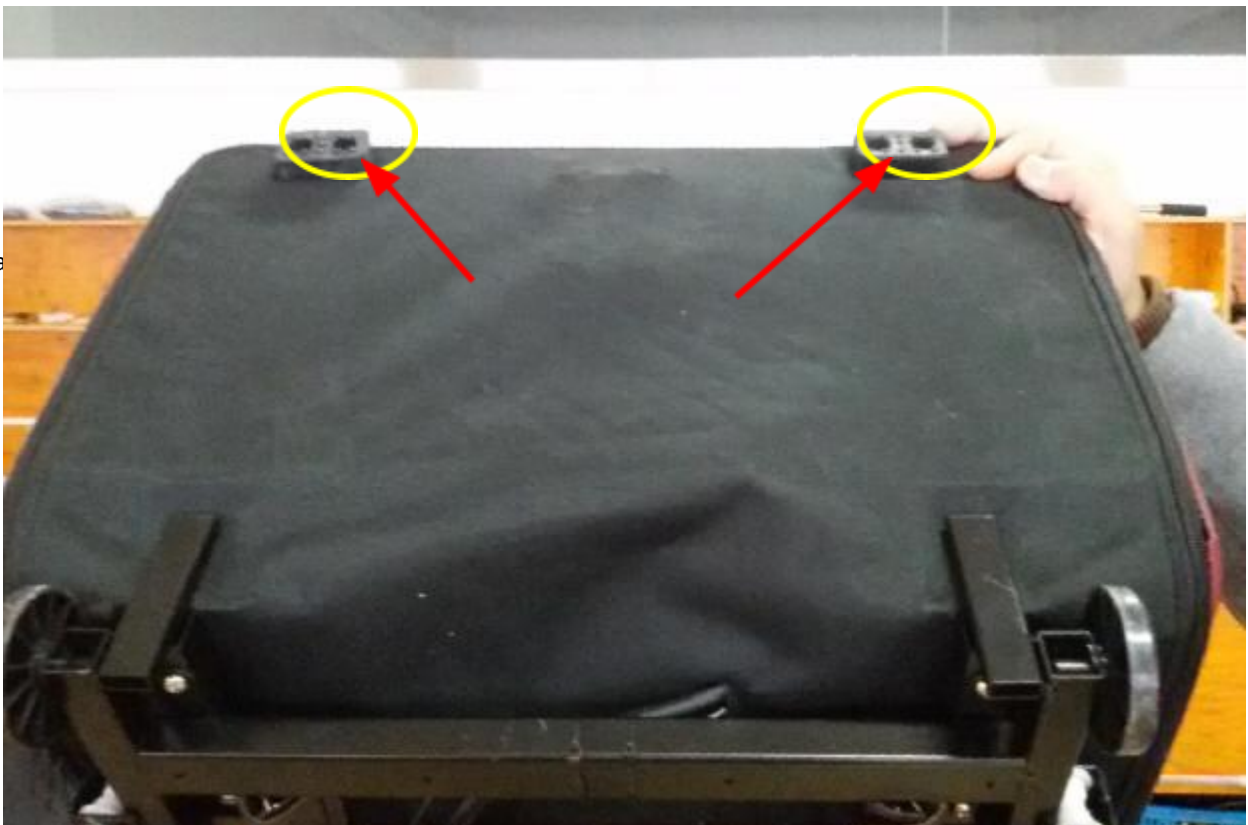
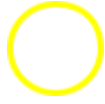


4) 拆下节美腿 Disassemble the lower footrest method





Firstly disassemble the 4 screws, then remove the 2 screws at bottom of footrest as below picture



Zipper head location

5) 拆下美腿下节底盖。Disassemble the lower footrest bottom cover



6) 最后拆下滚轮电机, 换上新的电机 Finally, remove the foot roller assembly, replace the new one.



Disa

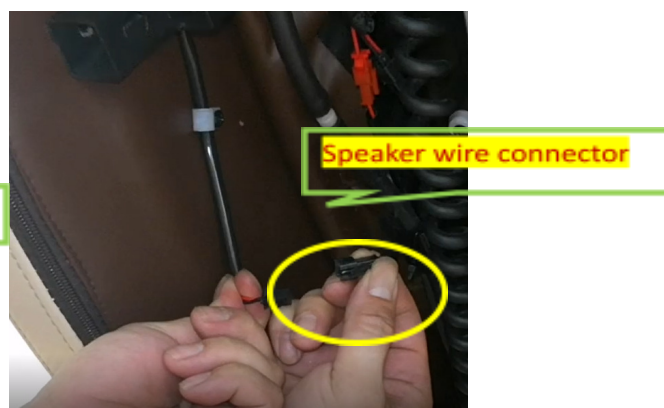
8.10 更换侧板注意事项 **Precautions for sideboard replacement**

1) 拆后盖, 方法同上。Disassemble the backrest cover, same as 8.7

2) 拆座侧螺丝。Disassemble the two screws beside the seat



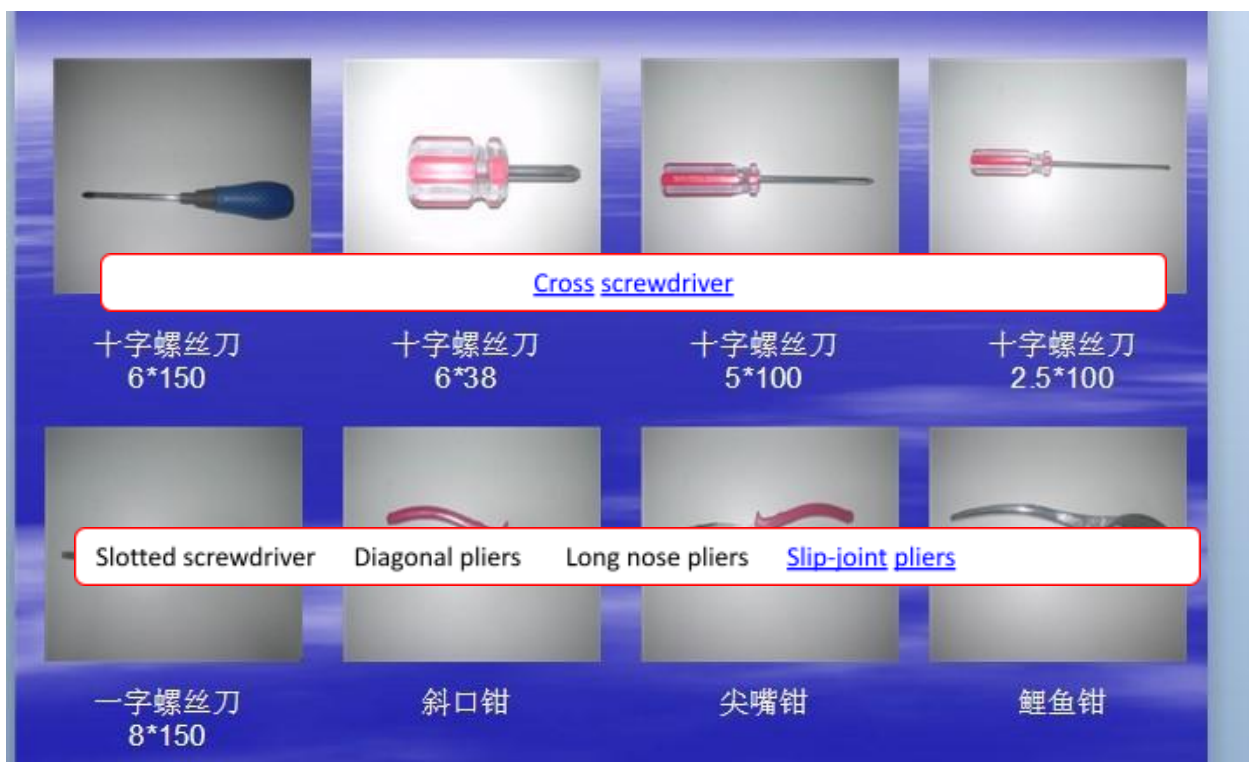
3) 拔下侧板气管和靠背后面喇叭接线 : Disassemble the air pipes and speaker wire connection inside the backrest.



8.11 维修用的工具包 REPAIR KIT

Tool name	Specification	Note
Cross screwdriver	6*150	Use for disassemble or assemble screws
Cross screwdriver	5*100	Use for disassemble or assemble screws
Cross screwdriver	6*38	Use for disassemble or assemble side panel cover screws or armrest screws
Cross screwdriver	2.5*100	Use for disassemble or assemble screws of speakers and solenoid valve
Slotted screwdriver	8*150	Use for disassemble or assemble screws
Diagonal pliers	6"	Use to cut cable tie
Long nose pliers	6"	Use to disassemble or assemble the snap spring
Wrench	5.5*7	Use to fix or disassemble M4 Nylon nuts.
Adjustable wrench	4"	Use to disassemble the tapping motor screw
Electric soldering iron	50W	Soldering different kinds of bunch
Allen wrench	3mm	Disassemble or assemble M4 hexagonal socket nut & screw
Steel ruler	200mm	Measuring the balance between the belt and the pulley
Multimeter		Measure the voltage
Slip-joint pliers		Disassemble or assemble the snap spring and fasten cable tie.
Scissor		Cut packing belt

8.12 工具清单 Tool lists



Wrench Allen wrench Adjustable Wrench Steel ruler N/A

8.11 维修用的工具包

Multimeter [Scissor](#) [Electric soldering iron](#) N/A