



中国·厦门蒙发利科技有限公司

Xiamen Comfort Science & Technology Co.,Ltd

产 品 维 修 手 册

Maintenance Service Manual

产品型号/MODEL: EC-7506E

适用电压规格/ voltage specification: 110V

蒙发利集团·客服

By the Easepal's Customer Service Dept.

3. 工具列表 Tools List Tools required

			
<p>十字螺丝刀 Screwdriver size 1,2,3</p>	<p>老虎钳 尖嘴钳 Diagonal cutter and long nose pliers</p>	<p>电烙铁 Soldering Kit</p>	<p>扳手 Spanner tools Kit</p>
	 <p>Allen Key set</p>	 <p>Ratchet Tools Set</p>	 <p>24V/DC power</p>
<p>电动螺丝刀 Electric Driver</p>	<p>电工胶 electrical adhesive tape</p>	<p>扎扣 Cable Ties</p>	<p>压线帽 WIRE ONECTORS</p>

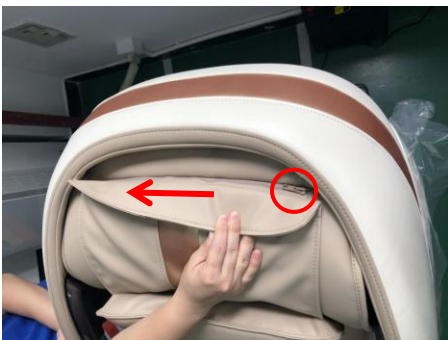
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1. 靠背枕头的拆卸

Disassembly of the pillow



拉开拉链取下枕头

枕头拆取下

2. 披风坐垫的拆卸

Disassembly of the backrest pad



3. 左右侧板的拆卸

Disassembly of the side panel

A. 取下两颗六角螺丝

Re



螺丝位置



螺丝位置

Position of the screw

B. 请参考下图动作拆卸侧板

Disassemble side panel as the picture below



向上抬起侧板前端



再向前移出整个侧板

C. 拔掉端子和气管即可将侧板拆除

Disconnect the terminal and air hose, then remove side panel



左边侧板端子和气管的位置

Position of the terminal and air hose (left side panel)



右边侧板端子和气管的位置

Position of the terminal and air hose (right side panel)



左侧板

Left side panel



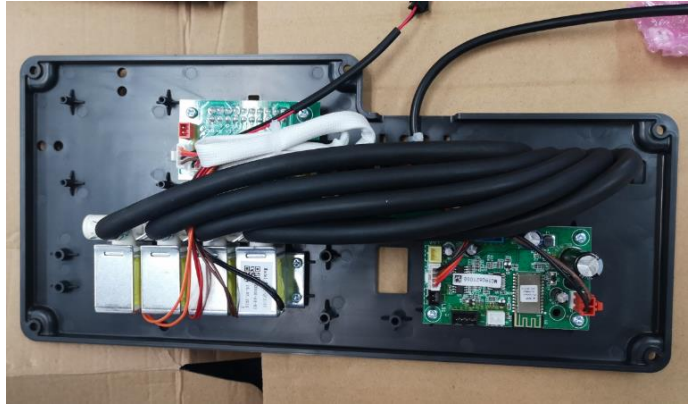
右侧板

Right side panel

4. 右侧板组件的分解

Disassembly of the right side panel

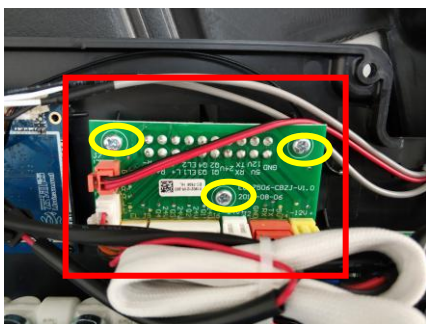
A. 侧板转接板的拆卸 disassembly of the conversion PCBA for side panel



取下 5 颗螺丝，打开气阀盒盖

B. 侧板转接板的拆卸

disassembly of the conversion PCBA

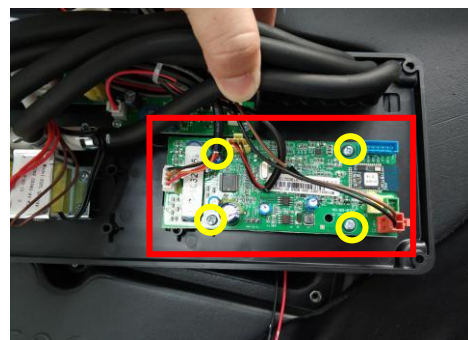


拔掉转接板上的端子，并拆除 3 颗螺丝

Disconnect the terminals, remove 3 screws

C. 蓝牙功放板的拆卸

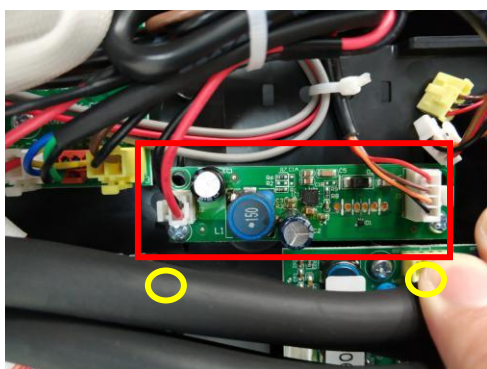
disassembly of the Bluetooth PCBA



拔掉蓝牙功放板上的端子，并拆除 4 颗螺丝

E.USB 板的拆卸

disassembly of the USB PCBA



拔掉 USB 板上的端子，并拆除 2 颗螺丝

F. 气阀的拆卸

Disassembly of the air valve



金属扎扣



拔掉气阀连接端子

Disconnect the terminals

拆除固定气阀的 4 颗螺丝，用尖嘴钳把金属扎扣脱离气阀嘴，再拔掉气管

Remove 4 screws. Release the metal fasteners, disconnect the air hose

G. USB 面板的拆卸

Disassembly of the USB unit



拉开扶手皮套拉链



USB 贴面

USB Sticker

撕开贴面，拆除 2 颗螺丝，取下 USB 盖

Teke down the sticker, remove 2 screws, take



拉开皮套，拆除两颗螺丝(螺丝位置图已标注)



拔掉端子，取下 USB 面板



剪掉扎扣，拔掉气管

Cut the cable tie

H. 扶手气袋的拆卸（左边扶手气袋同样步骤拆卸）

Disassembly of the air bag for side panel

参考 4-G 拉开扶手皮套拉链

Refer to 4-G unzip the zipper



取下固定气袋的 4 颗螺丝

Remove 4 screws fixing the

air bag

因为扶手弹力布是用布套销固定的，可以直接拔布套销拆除弹力布

Take down the air bag

H. 侧板装饰件的拆卸(左边的装饰件同样步骤可拆卸)

Disassembly of the Decoration of side panel

1. 参考 4-H 扶手气袋的拆卸（将扶手弹力布拆除即可）

Refer to 4-H disassembly of the air bag for side panel



取下 11 颗螺丝

拔掉端子，取下侧板装饰件

Disconnect the terminal, take down the decoration



灯带
LED

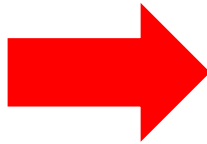
I. 侧板装饰件
手控器的拆卸

取下侧板装饰件即可更换灯带

Disassembly of the remote control

1. 参考（3.左右侧板的拆卸）拆除左侧板组件

Refer to （3.disassembly of side panel） remove left side panel



剪掉扎扣，拔掉端子，即可取下手控器
Cut cable tie, disconnect the terminal, take

5. 肩部皮套和气袋的拆卸

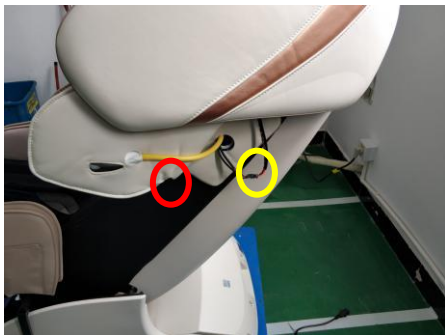
Disassembly of the shoulder cover

1. （参考 3.左右侧板的拆卸）拆除侧板

(refer to 3.disassembly of side panel) remove the side panel

2. 拉开左右肩部的拉链，并拔掉端子（黄色标识）

Unzip the zipper of shoulder, disconnect the terminal



左右拉链位置（红色标识）

Position of the zipper and terminal

3. 拆除 4 颗螺母（一边各 2 颗），取下头罩组件

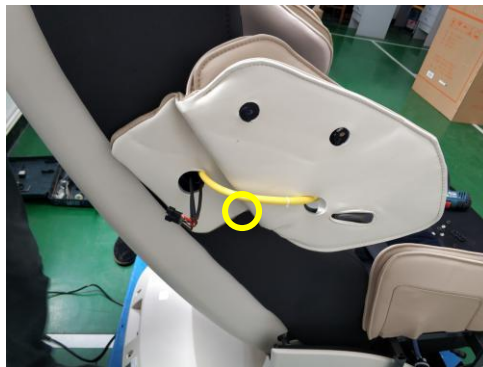
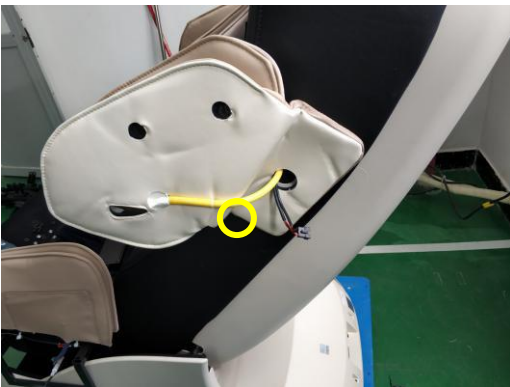
Remove 2 screws on both side of the shoulder, take down the hood unit



4 颗螺丝位置

头罩组件 hood unit

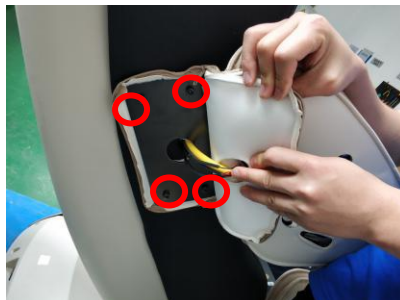
4. 拉开拉链 unzip the zipper



拉链位置(黄色标识) position of the zipper

5. 拆除 8 颗六角螺丝, 拔掉气管, 取下肩部组件, 即可更换肩部皮套和肩部气袋

Remove 4 screws on both side of the shoulder, disconnect the air hose, take down shoulder unit, replace the cover



8 颗螺丝位置

Position of the

6. 座侧组件的拆卸 disassembly of the side seat unit

1. 参考（3. 左右侧板的拆卸）拆除侧板

Refer to （3.disassembly of side panel） take down side panel

2. 拆除固定座侧组件的螺丝

Remove the screws fixing the side seat unit



4 颗螺丝位置

Position of the screws



取下座侧组件即可更换座侧皮套和气袋

Take down the side seat unit then we can
replace the leather and air bag

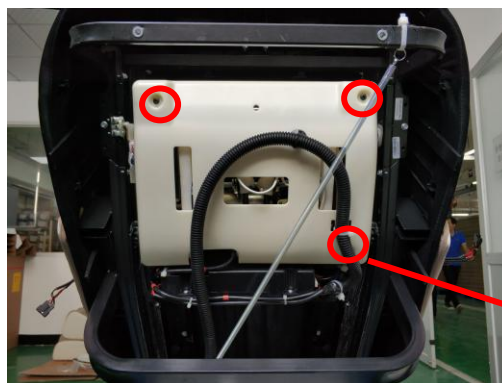
7.机芯 3D 板和机芯组件的拆卸

Disassembly of the mechanism unit and the 3D PCB

A.机芯 3D 板的拆卸 Disassembly of the mechanis

1. 取下后盖 4 颗螺丝 remove 4 screws

2. 取下机芯盖 3 颗螺丝 remove 3 screws



机芯盖 3 颗螺丝位置

Position of 3 screws

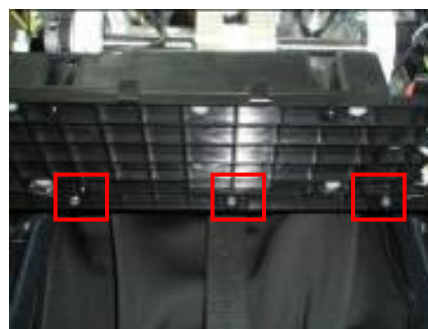
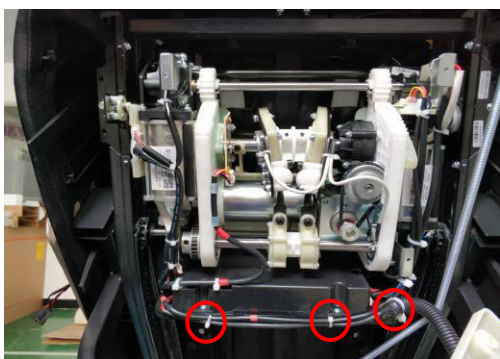
4 颗螺丝位置 position of 4 screws

3. 剪掉扎扣

cut the cable tie

4. 取下机芯 3D 盒下盖底端的 3 枚螺丝

remove 3 screws



扎扣位置 position of the cable tie

3D 盒下盖底端的 3 枚螺丝位置

4. 移出 3D 盒，取下固定 3D 盒上盖的 4 枚螺丝，取下上盖

Move out the box, remove 4 screws, take down the cover



4 颗螺丝位置

5. 拔掉所有端子，分离 3D 板与飞机架，取下 3D 板

Disconnect the terminals, then separate 3D PCB from the plastic holder



4 个飞机架的位置

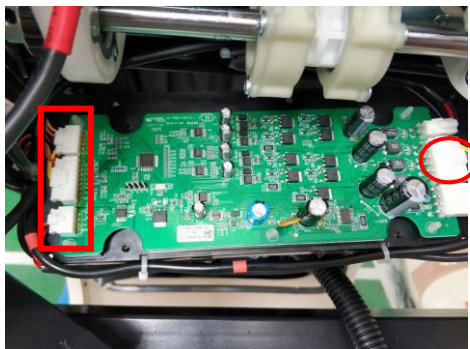
Position of 4 plastic holder

B. 机芯组件的拆卸 disassembly of the mechanism unit

1. (参考 7.机芯 3D 板的拆卸) 拆除机芯 3D 板上盖

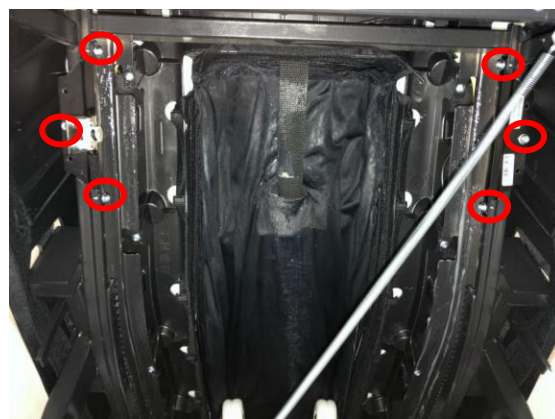
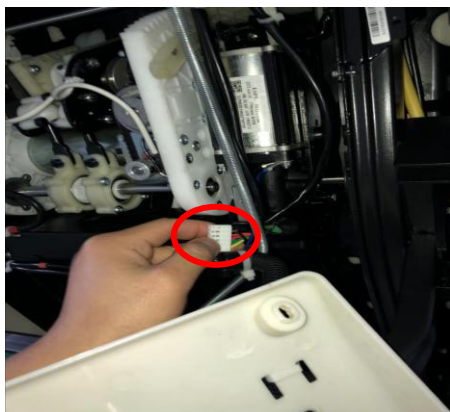
Refer to 7. disassembly of the 3D PCB, disassemble the cover

2. 拔掉背架线端子和 6 芯电源端子 disconnect the 6 terminals



3. 用 24V 外接电源连接 6 芯电源端子将机芯走至下方, 然后再拆除 6 颗螺丝取下挡片

Move down the mechanism with a 24V/DC power, then remove 6 screws on the guide



用 24V 电源连接黑线和棕线的 PIN 针

拆除 6 颗螺丝, 取下挡片

Remove 6 screws, take down the baffle

4. 用 24V 外接电源将机芯走至缺口，即可取出机芯组件

Move out the mechanism with a 24V/DC power

8.小腿组件的拆卸及内部结构分解

Disassembly of the leg rest

A. 小腿组件的拆卸 disassembly of the leg rest

1. 拉开拉链

Unzip the zipper



拉链位置 unzip the zipper

2. 拔掉小腿的防脱卡片，再将腿往右移出

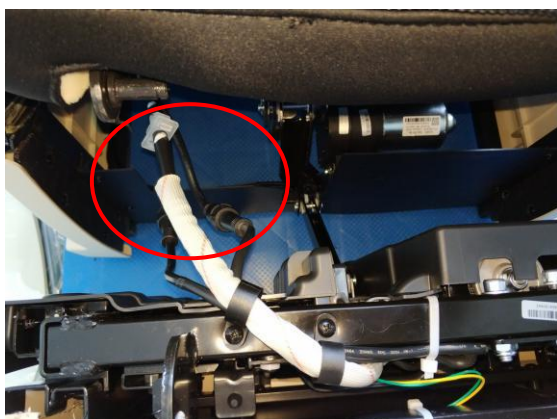
take down the baffle, pull out leg rest towards the right side



防脱卡片位置 position of the baffle

4. 旋出端子和拔掉气管，取下小腿组件

Disconnect the terminal and air hose, take out the leg rest



两个端子和气管 2 terminals and air hose

B. 小腿内部结构的分解 disassembly of the inner leg rest

1. 如要拆后盖，请拆除面上的数颗螺丝

Take down the screws fixing the rear cover, then remove the cover

2. 脚轮拆卸方法如图所示

Disassembly of the wheel as the picture below



C. 上下小腿的

Disassembly of the upper and lower leg

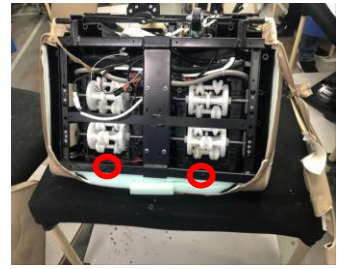
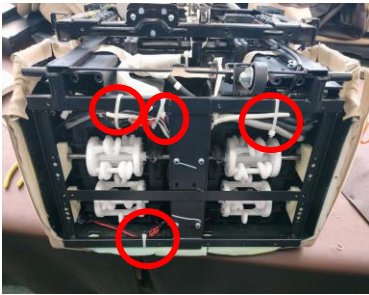
1. 下小腿的拆解 disassembly of the lower leg



拉开拉链 unzip the zipper

取下 6 颗螺丝，拆除 PE 板

Remove 6 screws, take down the PE division plate

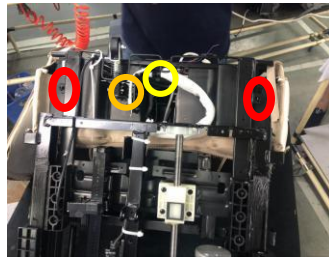
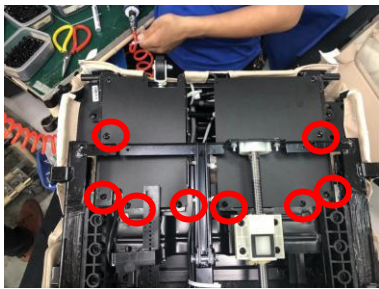


剪掉扎扣

拔掉所有端子，取出压线帽

取下 10 颗螺丝

Remove 10 screws



拆除 8 颗螺丝，取下小腿后挡板

Remove 8 screws, take down the division plate

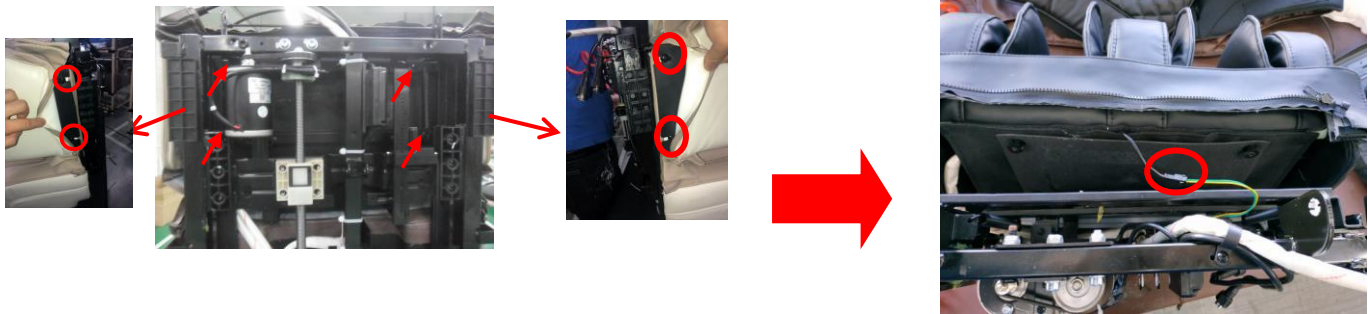
拆除 2 颗螺丝（红色标识），
拔掉端子和气管（黄色标识）

Remove 2 screws, disconnect
the terminal and air hose

下小腿组件

2. 上小腿的拆解

Disassembly of the upper leg



拆除以上 6 颗螺丝

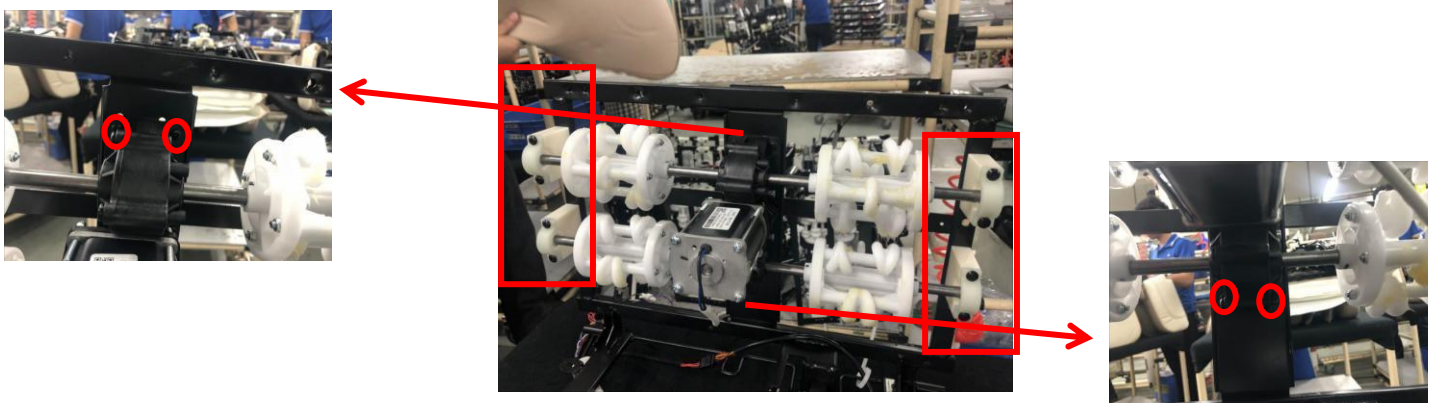
D. 小腿脚机滚轮的拆卸 disassembly of the foot massage unit

Remove 6 screws

拔掉加热线端子即可取下上小腿

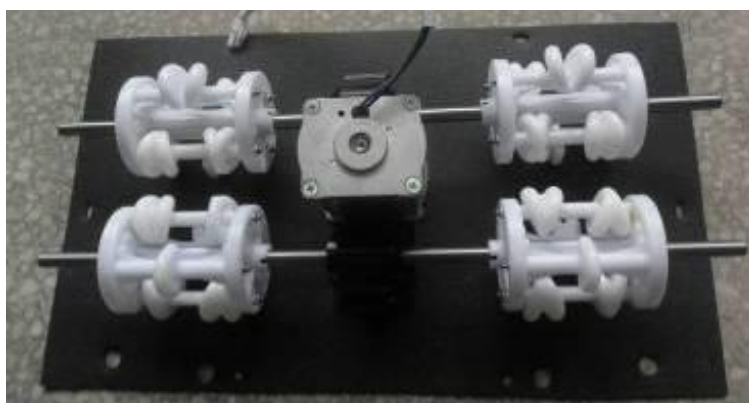
1. 参考 8-C 拆除下小腿 take down lower leg (refer to 9-C disassembly of lower leg)

Disconnect the terminal and take down upper leg



拆除以上螺丝，即可取下脚机滚轮组件

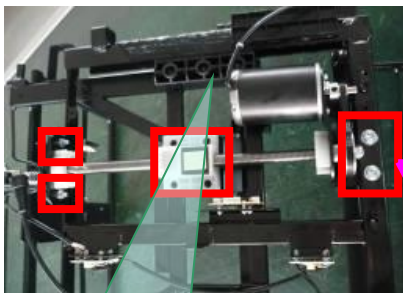
Remove all the screws, take down the foot massage unit



小腿脚机滚轮组件

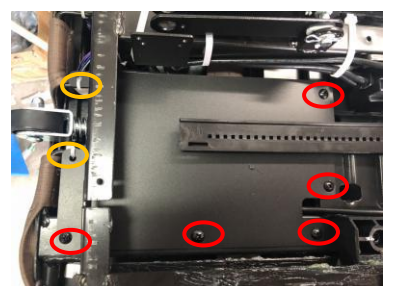
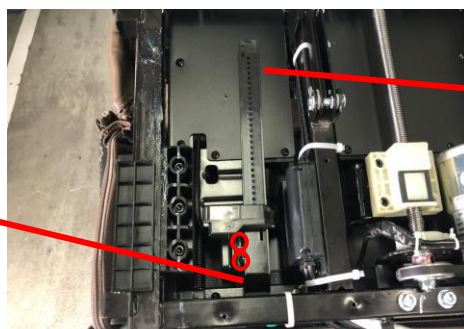
E. 小腿伸缩电机的拆卸 disassembly of the motor

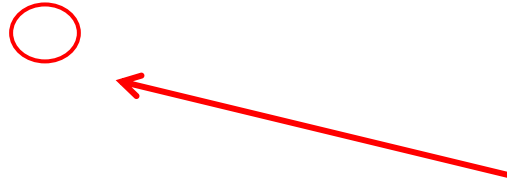
1. 参考 8-C 拆除上下小腿 refer to 8- disassembly of upper and lower leg



拆下其 8 枚螺丝即可
拆除伸缩电机
Remove 8 screws, take

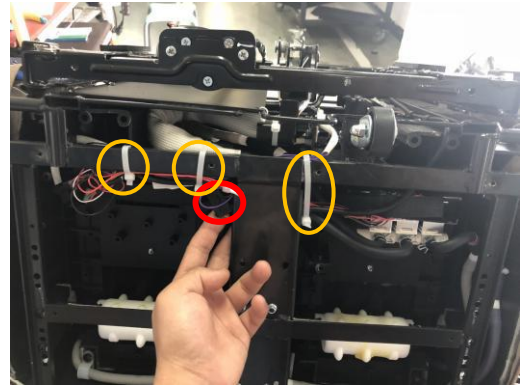
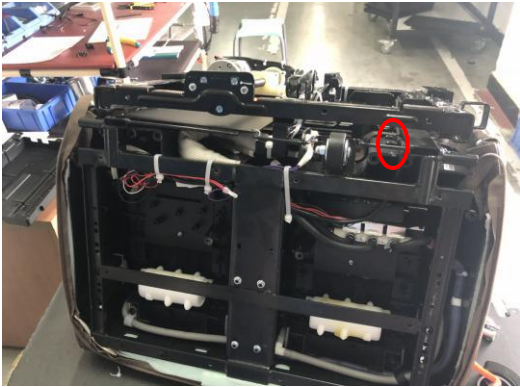
F. 行走计数器的拆卸 disassembly of counting sensor





拆除以上 8 颗螺丝，并剪掉两个扎扣

Remove 8 screws, cut the cable



拆除 2 颗螺丝

剪掉 3 个扎扣，断开黑色信号端子，即可取下行程计数器

Cut the cable tie, disconnect the black terminal, take down the

G. 小腿气阀组件的拆卸 disassembly of the air valve

1. 参考（8-C 上下小腿的拆解）拆除下小腿

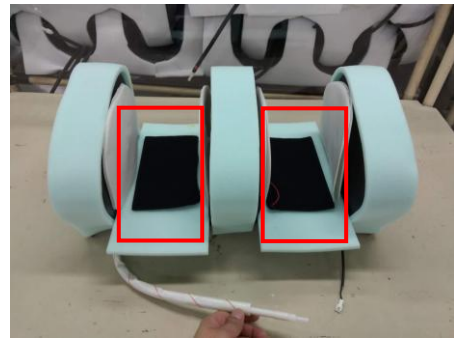
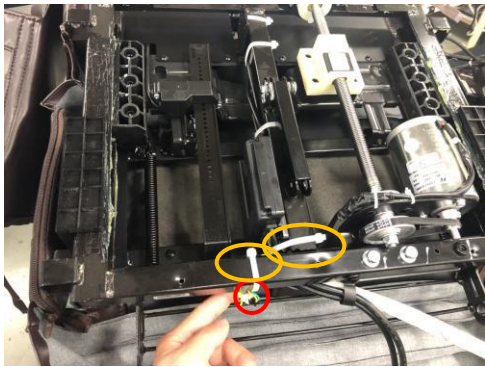
Refer to 8-C disassembly of upper and lower leg rest, take down the leg rest



拆除 4 颗螺丝，拔掉气管，取下气阀组件
 Remove 4 screws, disconnect the air hose,

heater
 assembly of upper leg

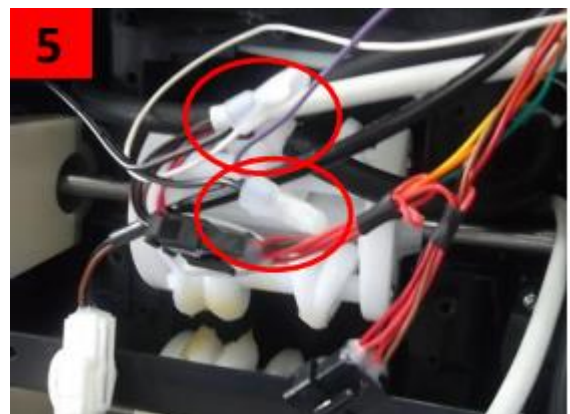
两联气阀组件 2-way air valve



剪掉 2 个扎扣，断开端子

将上小腿拆除，拆除皮套，即可取下加热片
 Remove upper leg, take down the leather, then

I. 小腿脚步感应开关的拆卸 disassembly of the sole switch



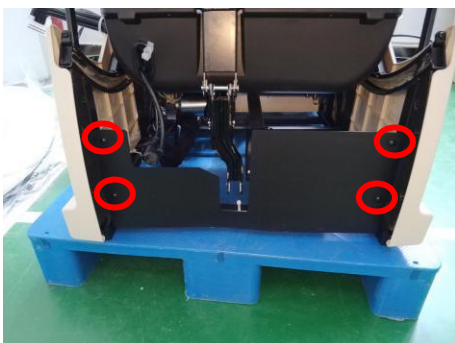
9.座架推杆和小腿推杆的拆卸

Disassembly of the actuator

A. 座架推杆的拆卸（拆除座架推杆时，必须抬住靠背，防止靠背滑落（建议两人配合）

Disassembly of the backrest actuator（**hold the backrest for safety, Two-person cooperation**）

1.参考 8-A 拆除小腿组件 refer to 8-A disassembly of leg rest



拆除 4 颗螺丝 取下前挡板



拔掉插销，取下销轴

B. 小腿推杆的拆卸 disassembly of leg rest actuator

1. 参考 8-A 拆卸小腿组件 refer to 8-A remove leg rest

2. 参考 7-A-1 拆除靠背后盖 refer to 7-A-1 remove rear cover of backrest



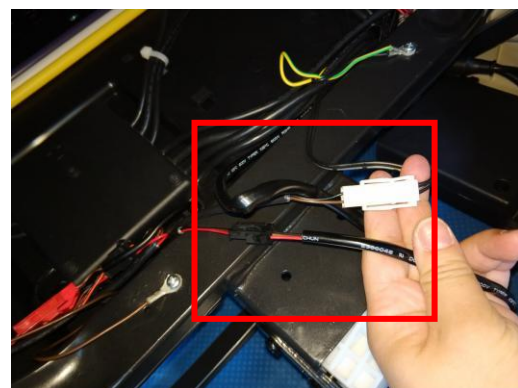
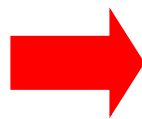
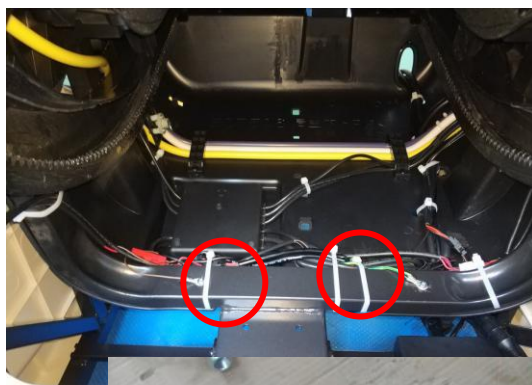
拔掉插销，取出销轴（前方）

Remove the shaft



拔掉插销，取出销轴（后方）

Remove the shaft



拔掉推杆电源和计数端子，取下小腿推杆

Disconnect the terminals, take down leg rest actuator

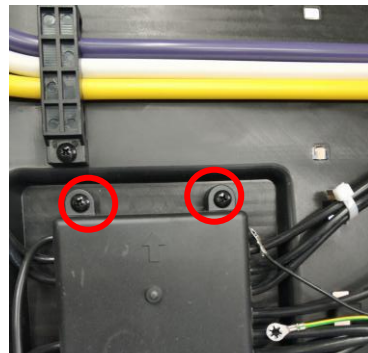
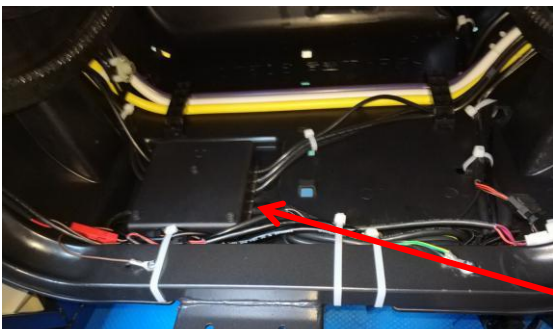


小腿推杆 leg rest actuator

10.座部转接板的拆卸

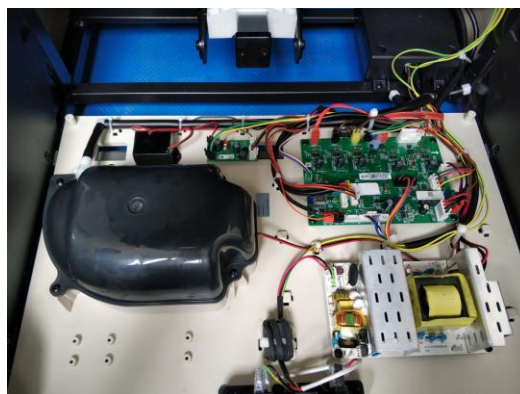
Disassembly of underseat PCBA

1. 参考 7-1-A 拆除后盖



11.中心盒组件内部分解 disassembly of inner main PCB

1.拆除中心盒上盖 remove the cover

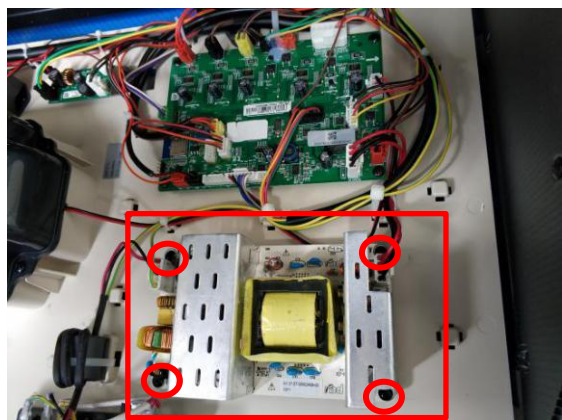


拆除 6 颗螺丝，即可取下中心盒上盖

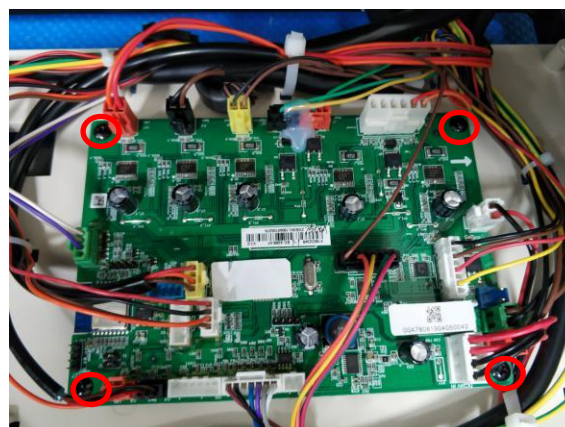
A.开关电源板的拆卸

B.中心板的拆卸

Disassembly of the power PCB



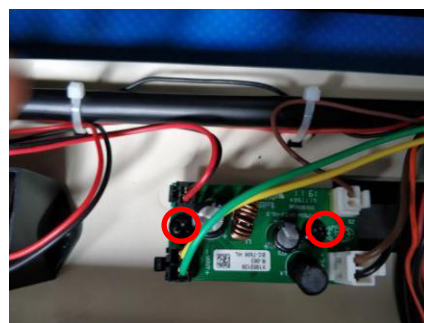
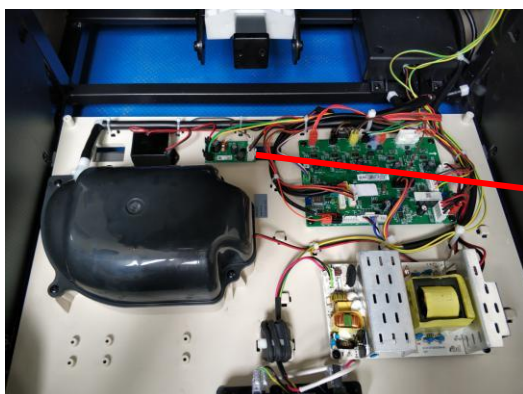
disassembly of the main PCB



拆除 4 颗螺丝，拔掉端子，取下开关电源板
Remove 4 screws, disconnect the terminal, take

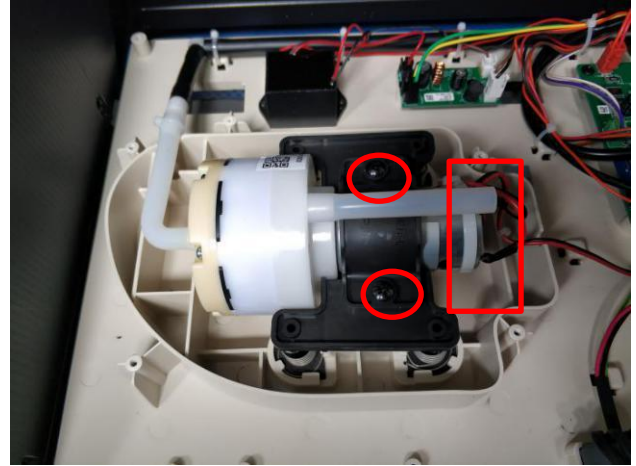
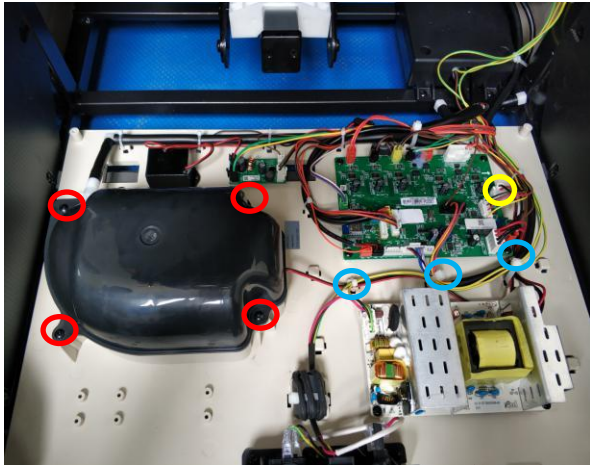
拆除 4 颗螺丝，拔掉中心板上所有的端子
Remove 4 screws, disconnect the terminal, take

C.12V 电源转接板的拆卸 disassembly of the 12V power Adapt PCBA



拆除 2 颗螺丝，拔掉端子，取下 12V 电源转接板
Remove 2 screws, disconnect the terminal, take down the PCBA

D.气泵的拆卸 disassembly of the air pump



拆除 4 颗螺丝，剪掉扎扣，拔掉端子

Remove 4 screws, cut the cable tie,

拆除 2 颗螺丝，剪掉扎扣，拔掉气管，即可取下气泵
(剪扎扣时，需注意，不要剪到线材)

Remove 2 screws, cut the cable tie, disconnect the air hose, then take down the air pump

附：实物接线图

Attachment: physical wiring diagram

