

ES400A 电动滑板车 Electric scooter

维修部位：车把管 (总作业工时/Total Working Hours:25 分钟/minutes)

Repair part: Handlebar tube

工具列表 Tools list



拉钉枪
Rivet gun



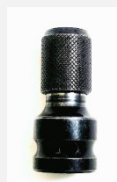
尖嘴钳
Needle nose pliers



拉线钳
Brake line plier



锂电钻
Electric screwdriver



转接头
Adapter



卡夫特螺纹胶 (蓝色)
Kafuter thread sealant (blue)



5mm 钻头
5mm Drill bit



T20 批头
T20*100mm Hollow plum blossom bit



T25 批头
T25*100mm Hollow plum blossom bit



T30 批头
T30*50mm Hollow plum blossom bit



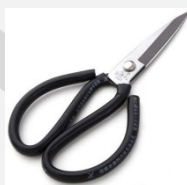
T40 批头
T40*50mm Hollow plum blossom bit



电动冲击钻
Electric impact wrench



热风枪
Heat gun



剪刀
Scissor



热缩管
heat shrink tubing $\Phi 8 \times 25\text{mm}$



一字螺丝刀
Flat screwdriver



ES400A 电动滑板车 Electric scooter

拉钉
Pop-rivet

T10 批头
T10*150mm Hollow plum
blossom bit

撬棍
crowbar

2.5mm 批头
2.5mm*100mm
hexagonal bit



3mm 批头
3mm*50mm hexagonal bit

2mm 批头
2mm*50mm hexagonal bit

胶粘剂
Adhesive

拆卸步骤 Disassembly steps (拆卸作业工时/Working Hours: 12 分钟/minutes)

- 1of31 拆下固定后护盖的 2 颗螺丝，取下后护盖。(T20 批头)
Disassemble 2 screws fixing the rear cover and remove the rear cover.
(T20 bit)



- 2of31 拆下 1 颗固定后刹车线芯的螺丝(T30 批头)
Disassemble 1 screw fixing the rear brake cable core (T30 bit)



- 3of31 取下弹簧
Disassemble the spring



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4of31

取下铝尾帽
Disassemble the aluminum tail cap



5of31

拆下 3 颗固定护盖螺丝，取下护盖。（T25 批头）
Disassemble 3 screws fixing the cover and remove the cover. (T25 bit)



6of31

拆下 1 颗固定前刹车线芯螺丝。（T30 批头）
Disassemble 1 screw fixing the front brake cable core. (T30 bit)



7of31

取下弹簧
Disassemble the spring



ES400A 电动滑板车 Electric scooter

8of31

取下铝尾帽
Disassemble the aluminum tail cap



9of31

钻掉拉丁（5mm 钻头）
Drill off the pop-rivet (5mm drill bit)



10of31

拧松 3 颗固定束仔螺丝（T40 批头）
Loosen 3 screws fixing the clamp (T40 bit)



11of31

捅掉剩余的铆钉，拉出车头。
Poke off the remaining pop-rivets and pull out the headset.



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断开仪表连接线接头，拉出刹车线芯。

- 12of31 Disconnect the meter connecting wire connector and pull out the brake cable core.



拆掉 2 颗固定中控螺丝，取出中控。（T20 批头）

- 13of31 Disassemble 2 screws fixing the IOT and remove the IOT. (T20 bit)



断开中控接头

- 14of31 Disconnect the IOT connector



拆掉 5 颗固定车头螺丝（T25 批头）

- 15of31 Disassemble 5 screws fixing the headset (T25 bit)



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断开无线充手机支架（黄色）接头，取出无线充手机支架。

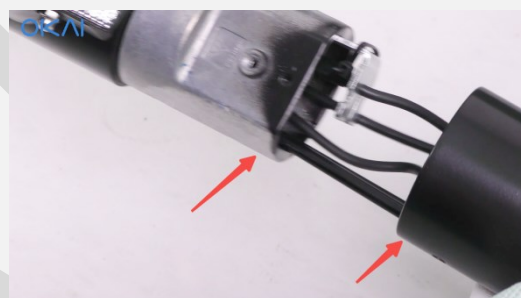
- 16of31 Disconnect the wireless charger phone holder (yellow) connector and remove the wireless charger phone holder.



取下前直杆

Remove the front straight bar

- 17of31



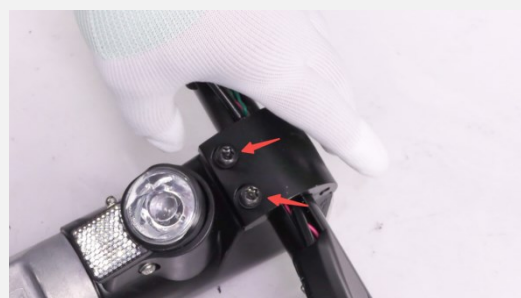
拆下前后 8 颗螺丝，取下车把护盖。（T10 批头）

- 18of31 Remove the front and rear 8 screws and remove the handlebar cover. (T10 bit)



拆下 2 颗固定车把锁盖螺丝，取下车把锁盖。（T30 批头）

- 19of31 Disassemble 2 screws fixing the handlebar lock cover and remove the handlebar lock cover. (T30 bit)



ES400A 电动滑板车 Electric scooter

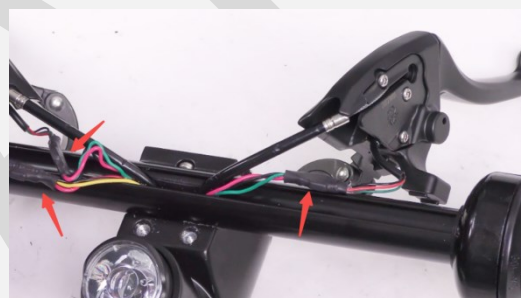
20of31

拆下固定左右刹把螺丝（T30 批头）
Disassemble the screw fixing the left/right brake lever (T30 bit)



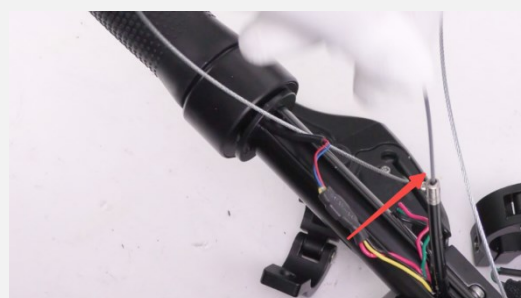
21of31

取出左右刹把接头和指拨转把接头
Remove the left/right brake lever connector and the thumb throttle connector



22of31

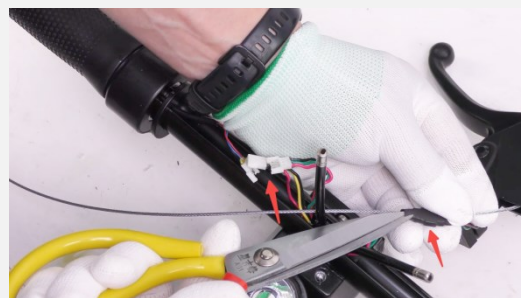
拉出左右刹车线芯
Pull out the left/right brake cable core



ES400A 电动滑板车 Electric scooter

将左右刹把和指拨转把接头热缩管剪开，断开左右刹把接头和指拨转把接头。

- 23of31 Scissor open the heat shrink tubing of the left/right brake lever connector and the thumb throttle connector and disconnect the left/right brake lever connector and the thumb throttle connector.



拉出所有接头和前刹车线皮，再拉出转向灯转接线，取下车把管。

- 24of31 Pull out all connectors and front brake rubber-block, then pull out the turn signal adapter cable, and take out the handlebar tube.



拆下车把管中间的限位螺丝（T20 批头）

- 25of31 Disassemble the limit screw in the middle of the handlebar tube (T20 bit)



取下护线套

- 26of31 Remove the wire sleeve



ES400A 电动滑板车 Electric scooter

27of31

拧松固定指拨转把螺丝（3mm 批头）
Loosen the screw fixing the thumb throttle (3mm bit)



28of31

取下左右把套
Remove the left/right handlebar grip



29of31

取下铃铛
Remove the bell



30of31

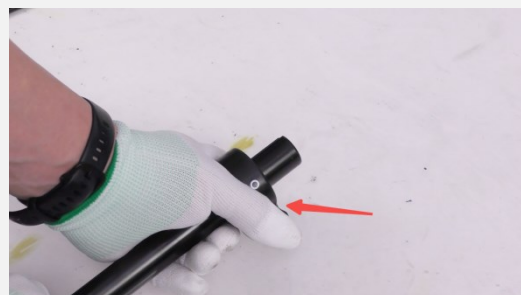
拆下左右管尾塞
Remove the left/right tube tail plug



ES400A 电动滑板车 Electric scooter

31of31

取下指拨转把
Remove the thumb throttle



安装步骤 **Assembly steps** (安装作业工时/Working Hours: 23 分钟/minutes)



零件全图
Full parts image

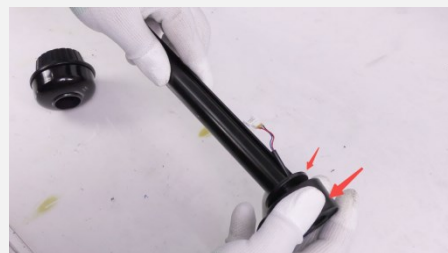
1of41

锁紧车把管中间的限位螺丝 (T20 批头) (扭力: 2N.m-3N.m)
Tighten the limit screw in the middle of the handlebar tube
(T20 bit) (torque: 2N.m-3N.m)



2of41

装入指拨转把和垫片
Assemble the thumb throttle and gasket



ES400A 电动滑板车 Electric scooter

3of41

装入铃铛
Assemble the bell



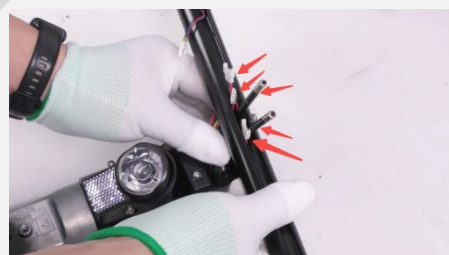
4of41

装入左右管尾塞
Assemble the left/right tube tail plug



5of41

将 3 个接头和 2 根刹车线皮头穿过车把管中间的过线孔
Pass 3 connectors and 2 brake rubber-blocks through the wire hole in the middle of the handlebar tube



6of41

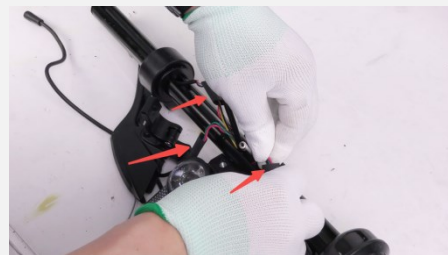
套入护线套，再将护线套安装到车把管过线槽内。
Insert the wire sleeve, and then install the wire sleeve into the handlebar tube wire slot.



ES400A 电动滑板车 Electric scooter

7of41

给左右刹把和指拨转把接头套入 8mm 热缩管，接上接头。
Sleeve 8mm heat shrink tubing on the left/right brake lever connector and thumb throttle connector and connect the connectors.



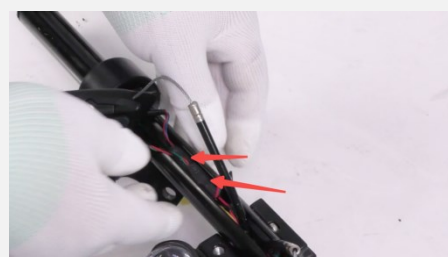
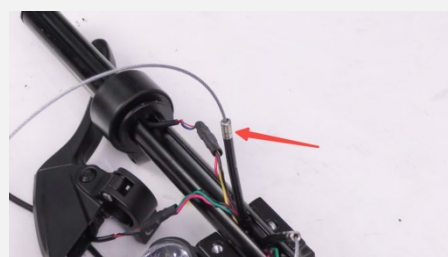
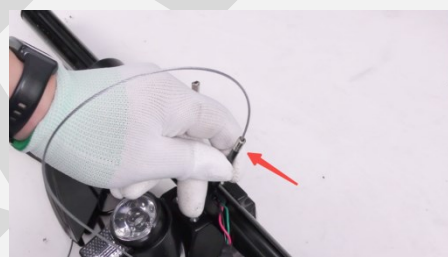
8of41

吹缩左右刹把接头和指拨转把接头热缩管
Blow and shrink the heat shrinkable tubes of the left/right brake lever connector and the thumb throttle connector



9of41

穿入左右刹车线芯，将左右刹把接头和指拨转把接头塞入车把管过线槽内，
预装上左右刹把。
Insert the left/right brake cable core, insert the left/right brake lever connector and the thumb throttle connector into the handlebar tube wire slot, and pre-assemble the left/right brake lever.



ES400A 电动滑板车 Electric scooter



装入车把锁盖，锁紧 2 颗固定车把锁盖螺丝。（T30 批头）
（扭力：13N.m-16N.m）

Assemble the handlebar lock cover and tighten 2 screws fixing
the handlebar lock cover. (T30 bit) (torque: 13N.m-16N.m)

10of41

装入车把护盖，锁紧 8 颗螺丝。（T10 批头）（扭力：1N.m）
Assemble the handlebar cover and tighten 8 screws.
(T10 bit) (torque: 1N. m)

11of41



ES400A 电动滑板车 Electric scooter



锁紧指拨转把固定螺丝（3mm 批头）（扭力：0.5N.m-1N.m）

Tighten the turn signal switch fixing screw
(3mm bit) (torque: 0.5N.m-1N.m)



装入垫片，把套内涂上胶粘剂，推入左右把套。

Assemble the gasket, apply adhesive to the inside of the handlebar grip, and push in the left/right handlebar grip.
(短的为左把套，长的为右把套)

(The short one is the left handlebar grip, and the long one is the right handlebar grip)



12of41

13of41

ES400A 电动滑板车 Electric scooter

14of41

锁紧固定左右刹把螺丝（T30 批头）（扭力：9N.m-12N.m）
Tighten the screw fixing the left/right brake lever
(T30 bit) (torque: 9N.m-12N.m)



15of41

将所有线穿入前直杆，装入车头。
Pass all wires into the front straight bar and assemble them into the headset.



16of41

预锁 1 颗固定前直杆和车头螺丝
Pre-tighten 1 screw fixing the front straight bar and headset



17of41

装入无线充手机支架
Assemble the wireless charger phone holder



ES400A 电动滑板车 Electric scooter

18of41

锁紧固定车头的 5 颗螺丝（T25 批头）（扭力：6N.m-7.5N.m）
Tighten 5 screws fixing the headset (T25 bit) (torque: 6N.m-7.5N.m)



19of41

接上无线充手机支架（黄色）接头
Connect the wireless charger phone holder (yellow) connector



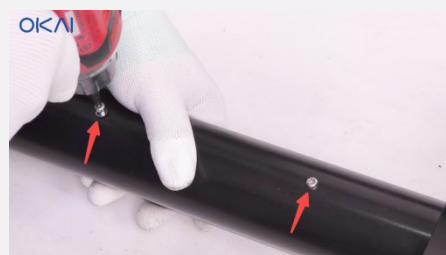
20of41

接上中控（绿色）接头
Connect the IOT connector



21of41

装入中控，锁紧 2 颗固定螺丝。（T20 批头）（扭力：2N.m-3N.m）
Assemble the IOT and tighten 2 fixing screws.
(T20 bit) (torque: 2N.m-3N.m)



ES400A 电动滑板车 Electric scooter

22of41

穿入前后刹车线芯

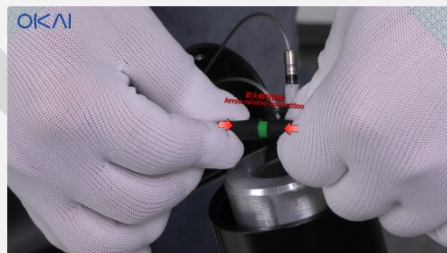
Pass in the front/rear brake cable core



23of41

接上仪表连接线和车身通讯线（绿色）接头，装入车头。

Connect the meter connecting wire connector and the body communication wire (green) connector and assemble them into the headset.



24of41

拉顺前后刹车线芯

Straighten the front/rear brake cable core



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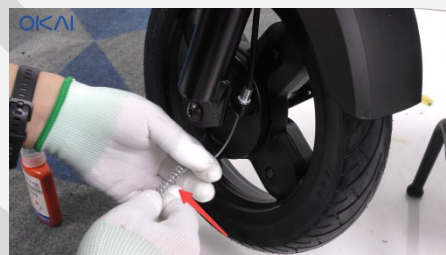
25of41

装入拉丁
Assemble the pop-rivet



26of41

穿入弹簧
Insert the spring



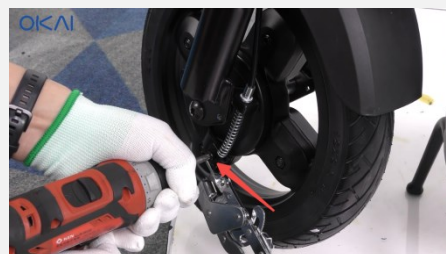
27of41

给固定刹车线芯螺丝涂上蓝色厌氧胶
Apply blue anaerobic adhesive on the screw fixing the brake cable core



28of41

用拉线钳拉紧前刹车线芯，锁紧刹车线芯固定螺丝，
(T30 批头) (扭力:11-13N.m)
Use a brake line plier to tighten the front brake cable core and tighten the fixing screw of the brake cable core (T30 bit) (torque: 11-13N. m)



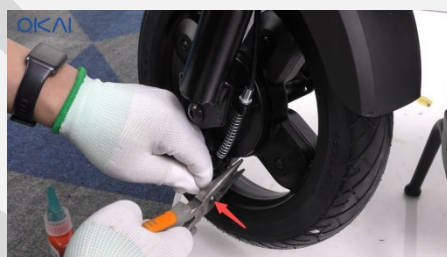
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试一下刹把刹车力度（手捏刹把测松紧度，刹把捏紧后距把套 15-20mm，
松开刹车，转动轮子不磨刹车皮，不符合重新调刹车。）

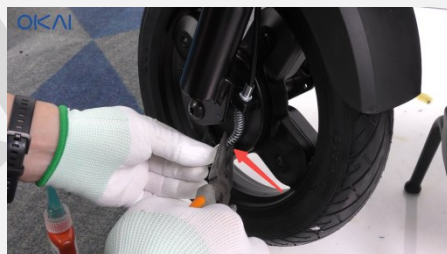
Test the braking force of the brake lever (pinch the brake lever by hand to measure the tightness. After the brake lever is pinched tightly, it is 15-20mm away from the handlebar grip. Release the brake. Turn the wheel without grinding the brake rubber-block. Carry out re-adjustment if not satisfactory.)



装入铝尾帽，夹紧铝尾帽。
Assemble and clamp the aluminum tail cap.



将刹车线芯塞入弹簧内
Insert the brake cable core into the spring



装上护盖，锁紧 3 颗固定护盖螺丝。（T25 批头）（扭力：3N.m-5N.m）
Assemble the cover and tighten 3 screws fixing the cover.
(T25 bit) (torque: 3N.m-5N.m)



ES400A 电动滑板车 Electric scooter

33of41

穿入弹簧
Insert the spring



34of41

给固定刹车线芯螺丝涂上蓝色厌氧胶
Apply blue anaerobic adhesive on the screw fixing the brake cable core



35of41

用拉线钳拉紧后刹车线芯，锁紧刹车线芯固定螺丝，
(T30 批头) (扭力:11-13N.m)
Use a brake line plier to tighten the rear brake cable core and tighten
the fixing screw of the brake cable core (T30 bit) (torque: 11-13N. m)



36of41

试一下刹把刹车力度（手捏刹把测松紧度，刹把捏紧后距把套 15-20mm，
松开刹车，转动轮子不磨刹车皮，不符合重新调刹车。）
Test the braking force of the brake lever (pinch the brake lever by hand
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ES400A 电动滑板车 Electric scooter

37of41

装入铝尾帽，夹紧铝尾帽。
Assemble and clamp the aluminum tail cap.



38of41

将刹车线芯塞入弹簧内
Insert the brake cable core into the spring



39of41

装回护盖，锁紧 2 颗固定护盖螺丝。（T20 批头）（扭力：3N.m-5N.m）
Assemble the cover and tighten 2 screws fixing the cover.
(T20 bit) (torque: 3N.m-5N.m)



40of41

锁紧 3 颗固定束仔螺丝（T40 批头）（扭力：25N.m）
Tighten 3 screws fixing the clamp (T40 bit) (torque: 25N. m)



ES400A 电动滑板车 Electric scooter

41of41

拉紧拉钉
Tighten the pop-rivet



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