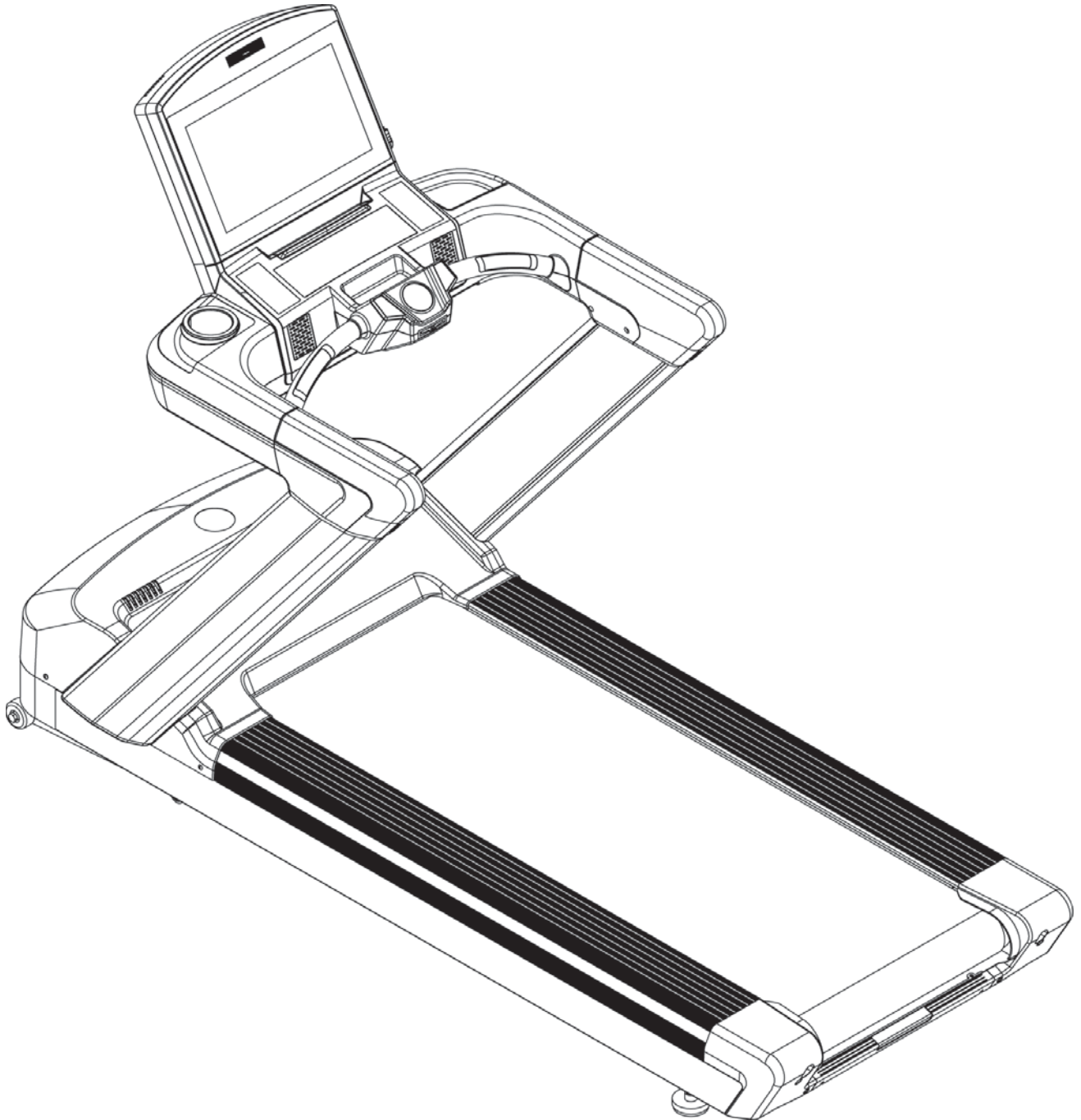


T22 Maintenance Manual

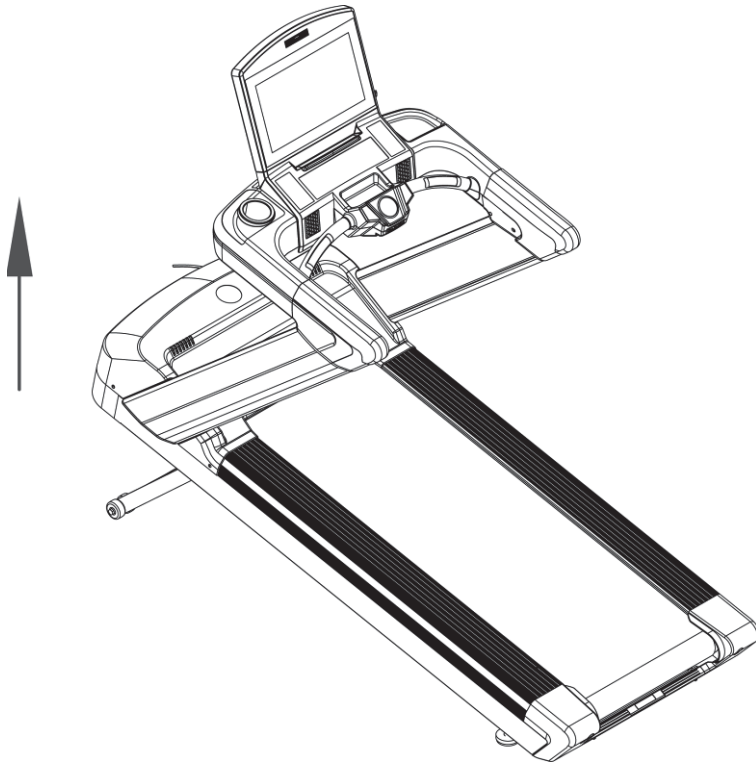


Contents

1.	Replacement of motor	2
2.	Replacement of incline motor	6
3.	Replacement of running board	10
4.	Replacement of running belt	18
5.	Replacement of inverter	26
6.	Replacement of thin membrane keys	28
7.	Replacement of console boards	29
8.	Replacement of wire collection board and heart rate board	30
9.	Replacement of motor drive belt	32

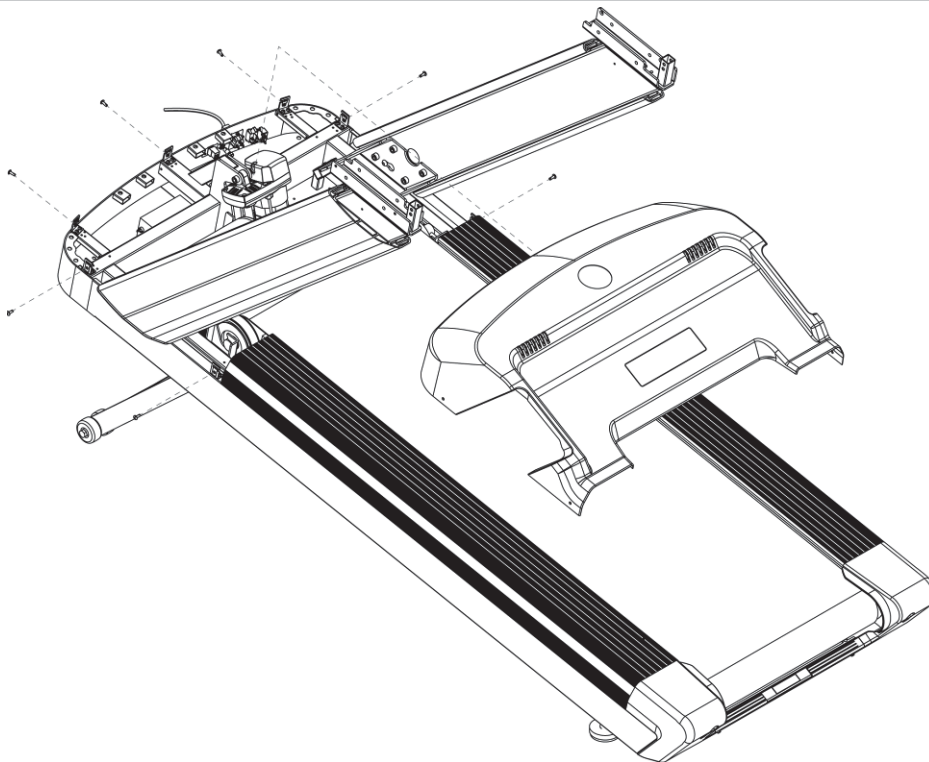
1. Replacement of motor

STEP 1



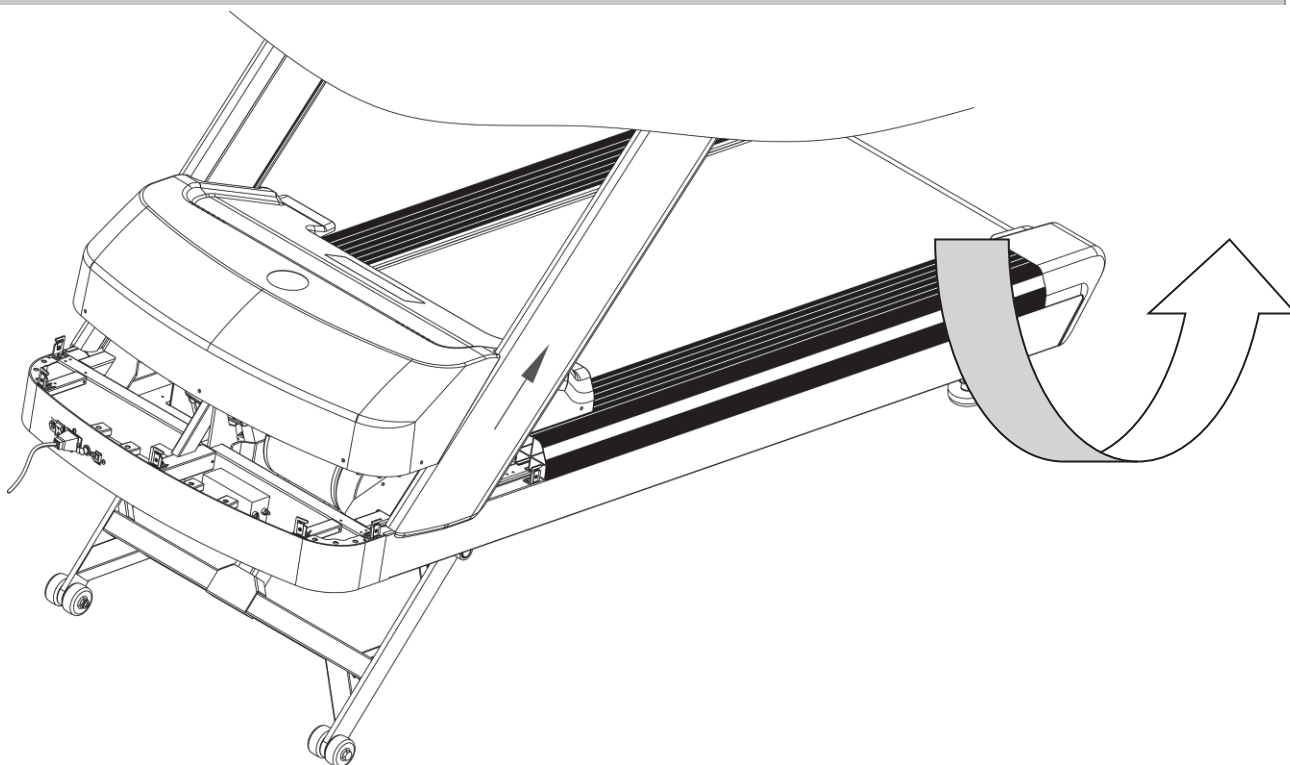
Set the machine incline to the highest level, and then turn the power off to keep treadmill to be at the maximum lifting angle.

STEP 2



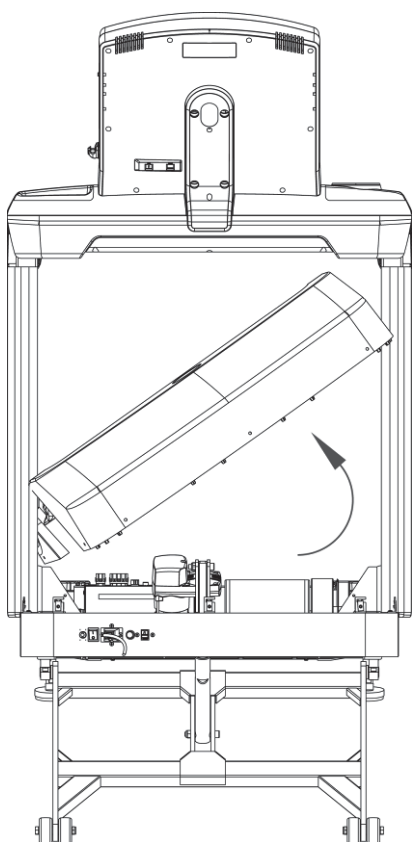
Unscrew the screws of the motor cover, and take off the motor cover.

STEP 2-1



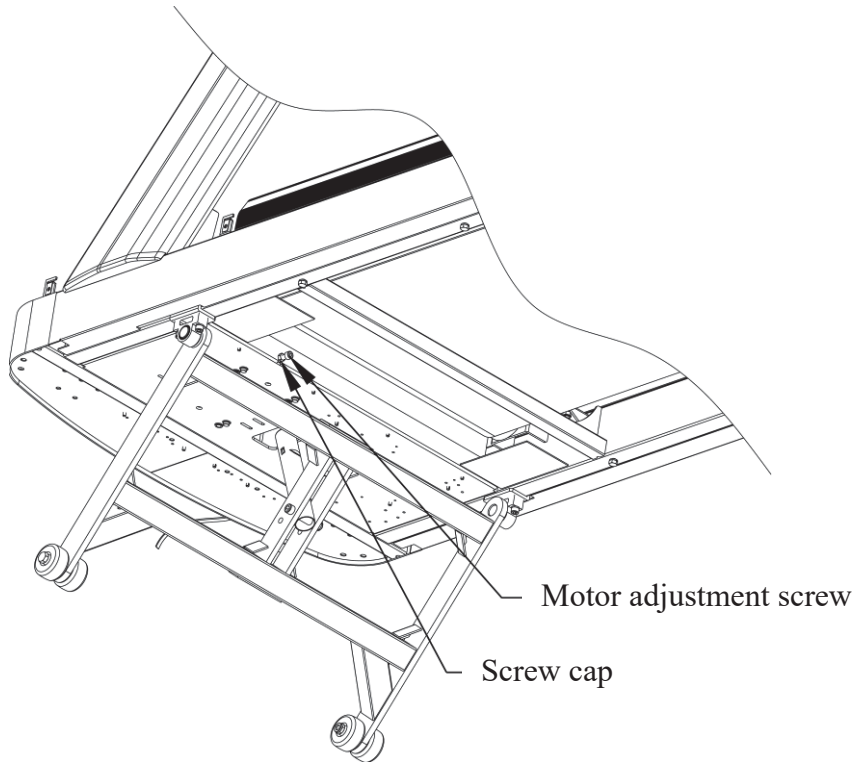
Lift the motor cover upward along the direction of handlebar vertical tube.

STEP 2-2



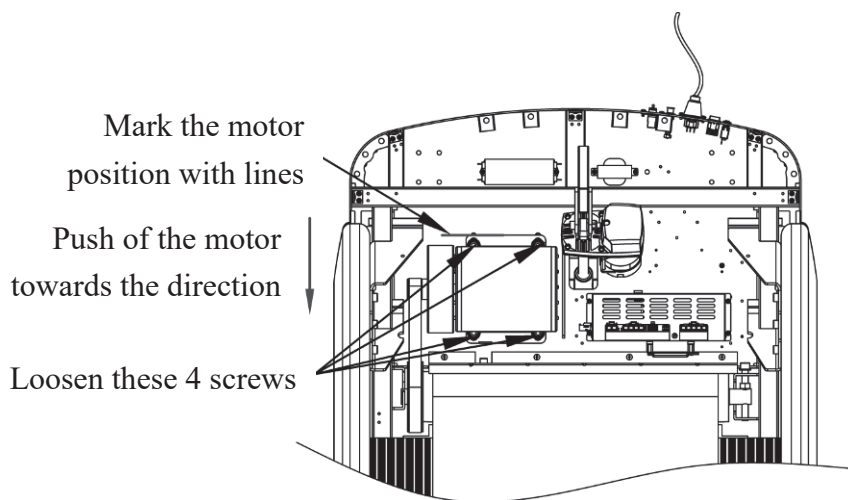
Try to move the motor cover towards left or right side, after the motor cover is separated from handlebar upright tube, the motor cover will be able to take off easily.

STEP 3



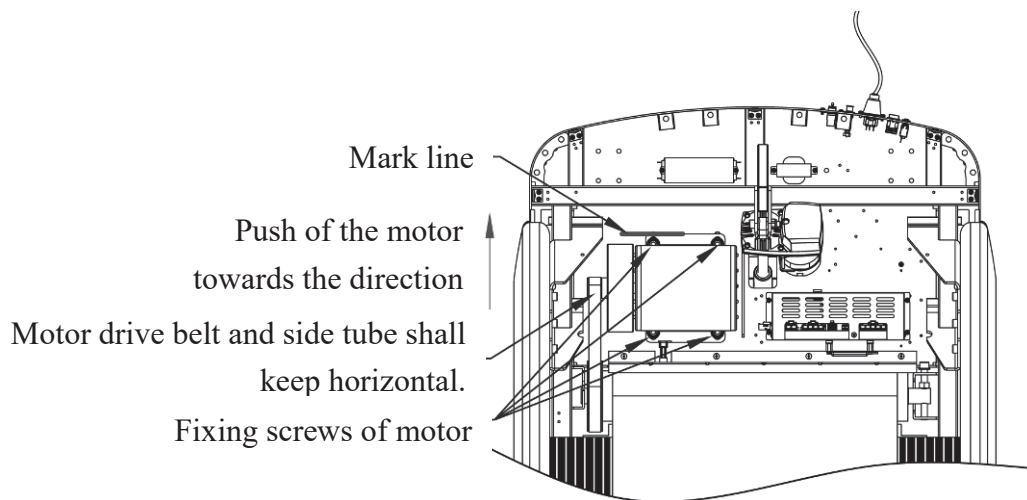
First, loosen the screw cap, and loose the motor adjustment screw for about 4 to 5 laps.

STEP 4



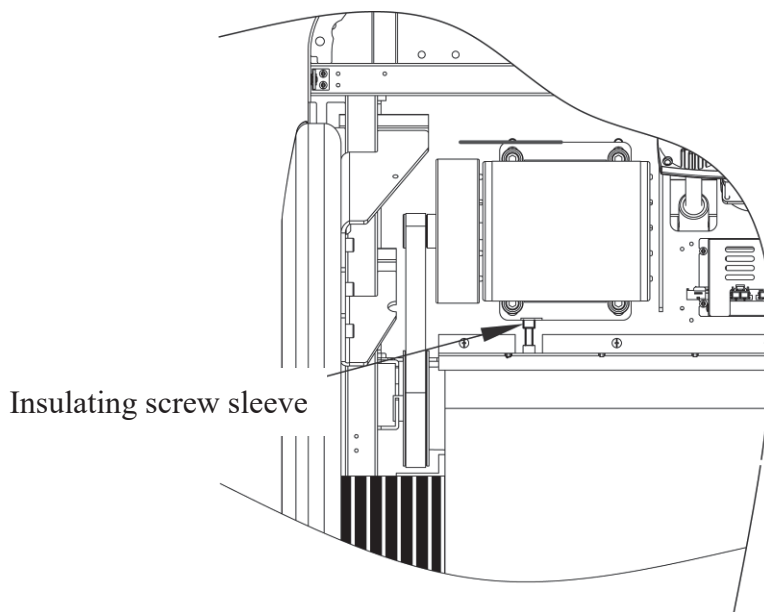
First, mark the motor position with lines according to the diagram shows. The mark lines will be the standard of adjusting motor position. Next, loosen the 4 motor fixing screws. Then, push the motor according to the direction toward to the front roller to make motor drive belt loose and separated from motor belt pulley.

STEP 5



After replaced the new motor, make the motor drive belt hook the motor belt pulley, and adjust the belt position to be horizon with the side tube of frame. Then, slightly lock 4 fixing screws of motor, and use the motor adjustment screw (beneath the treadmill) to adjust the motor back to original position, then lock screw cap. Finally, lock 4 fixing screws of motor tight.

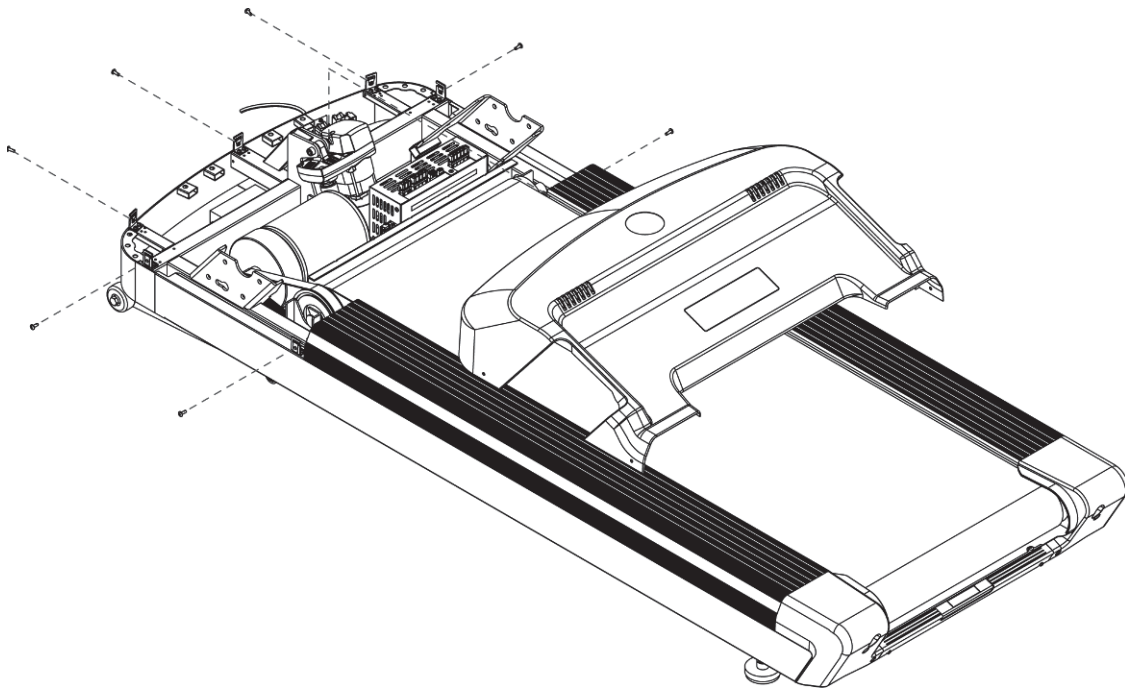
STEP 6



During replacement, it shall be noted to place the insulating screw sleeve back in place to avoid danger.

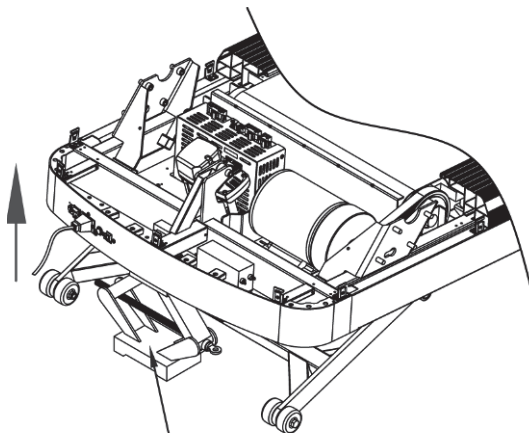
2. Replacement of incline motor

STEP 1



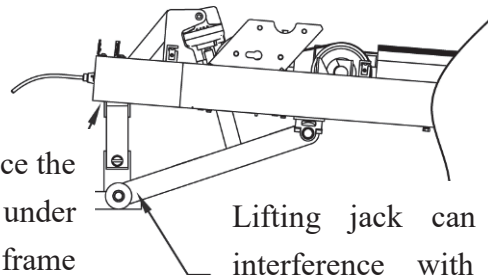
First, unscrew the fixing screws of motor cover, and take the motor cover apart.

STEP 2



Lifting jack

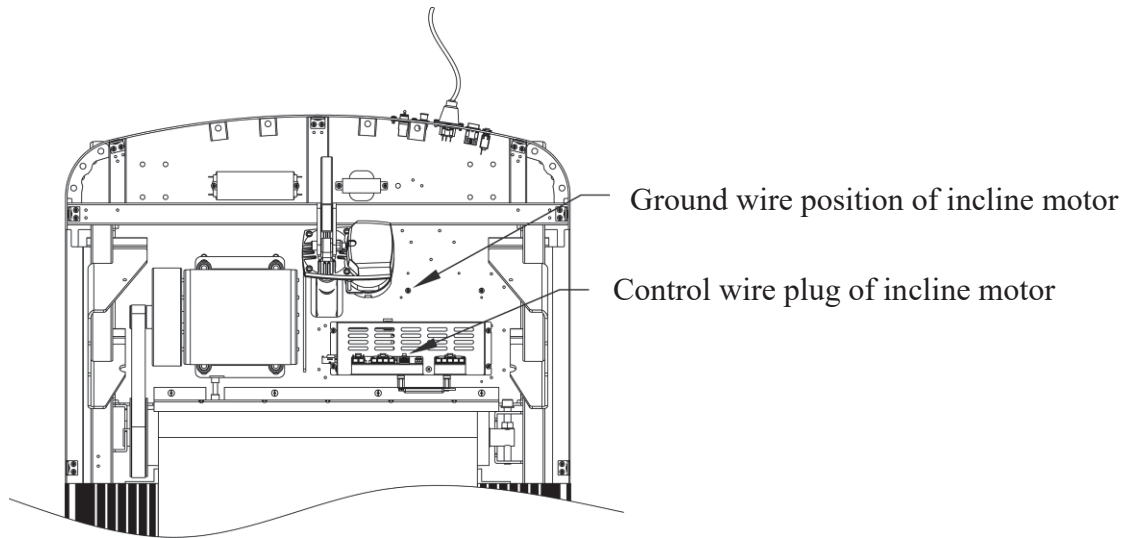
Be careful to place the lifting jack attach under the frame



Lifting jack can not interference with the incline lifting frame

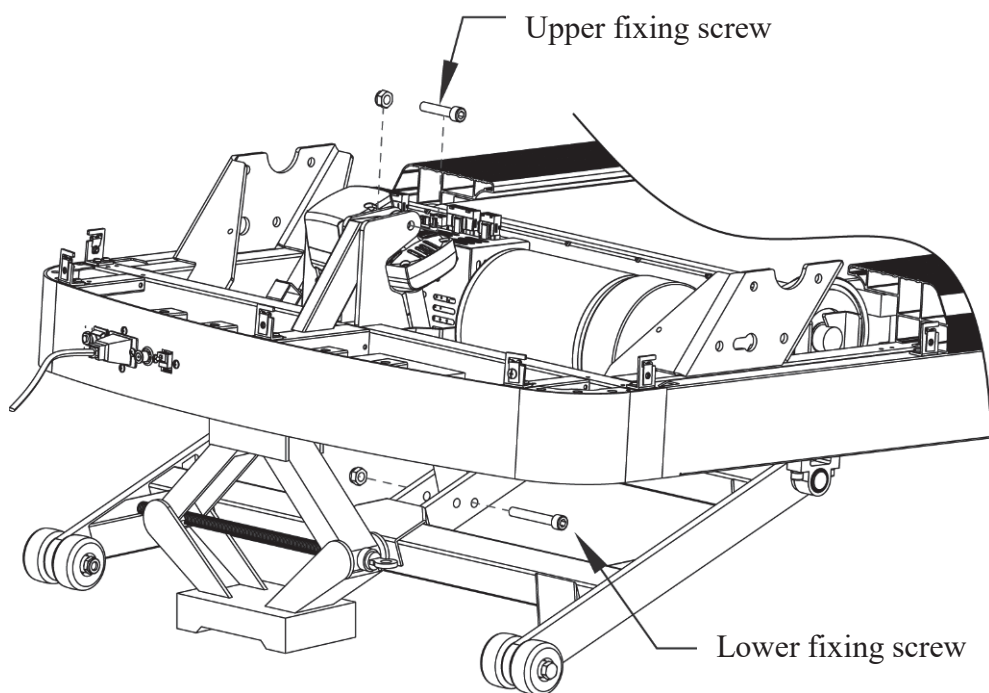
Use the lifting jack to rise the treadmill frame, please note that whether lifting jack is attach well under the frame. The frame should not wobble and the lifting jack can not interference with the incline lifting frame.

STEP 3



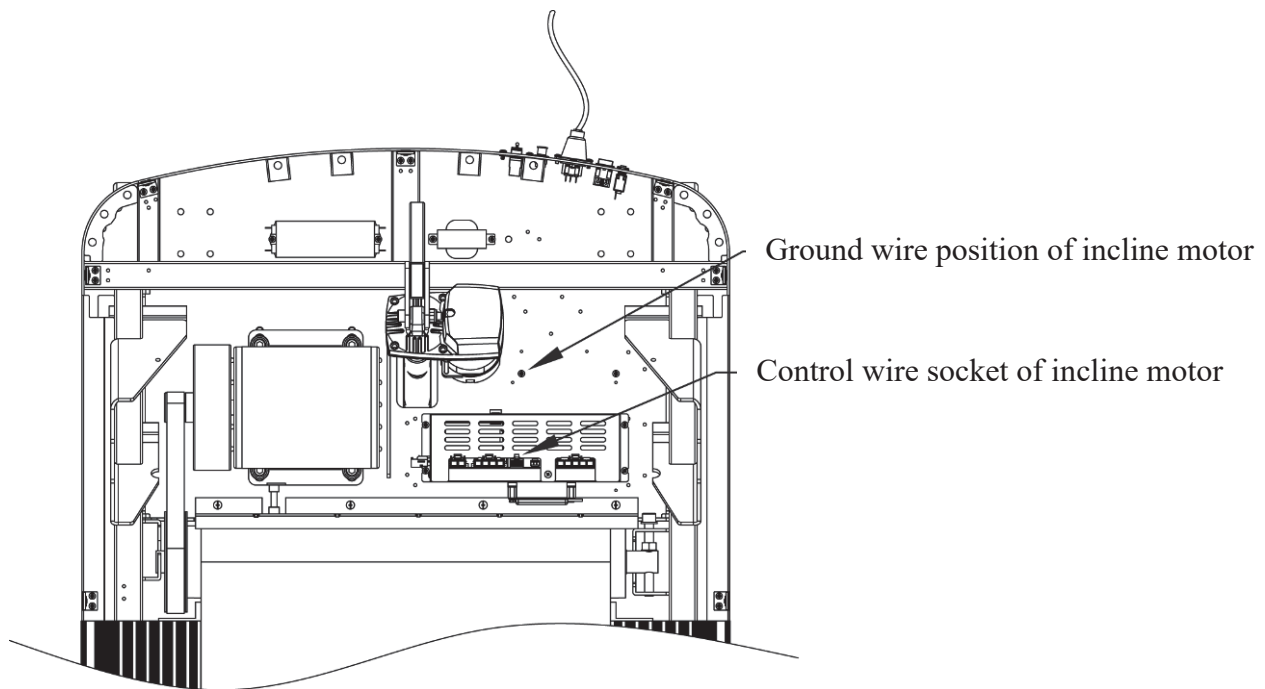
Unplug the incline motor control wire from the transducer, and disconnect the ground wire of the incline motor.

STEP 4



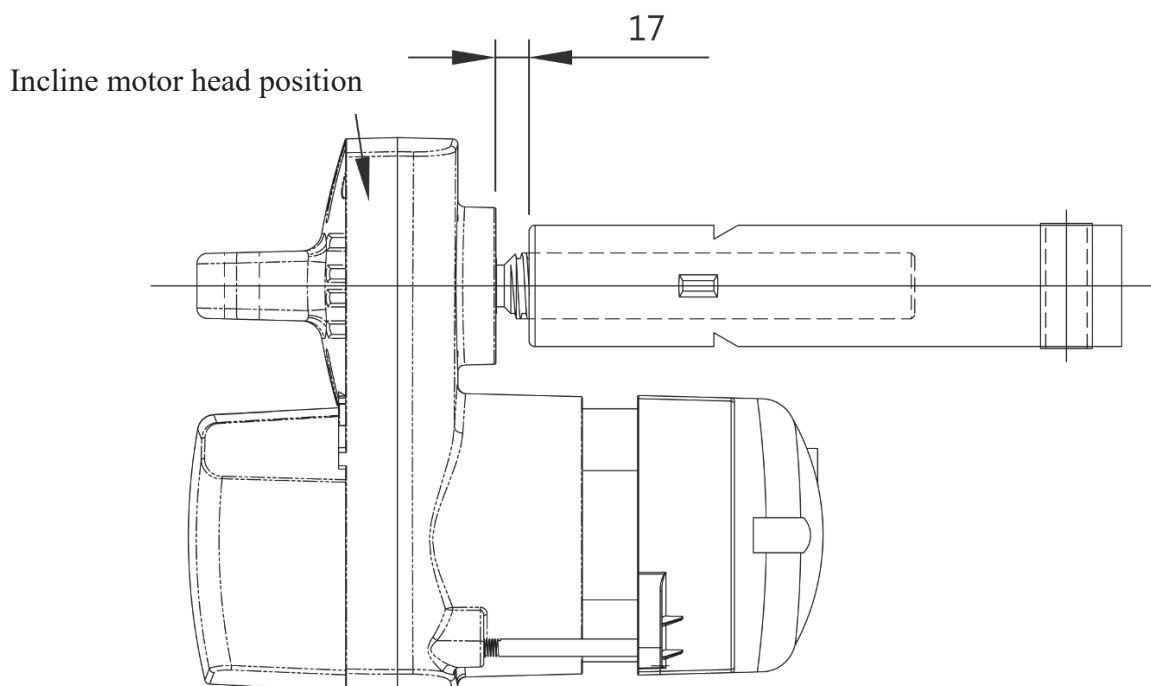
Loosen the lower fixing screws of the incline motor, then loosen the upper fixing screw to take incline motor out.

STEP 5



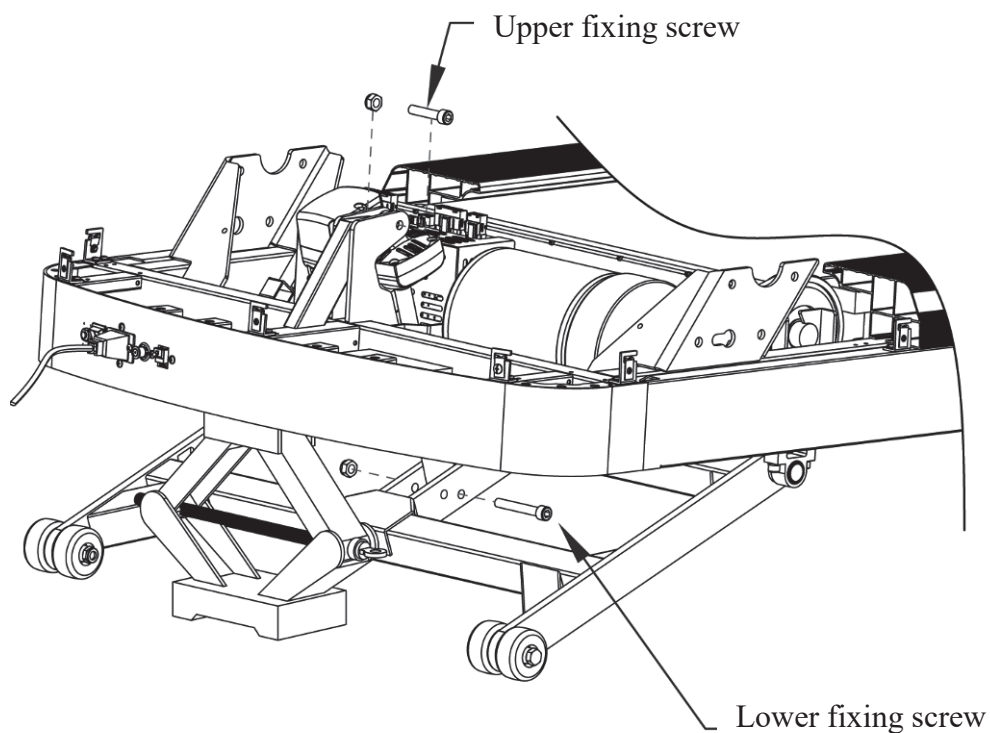
Plug in new control wire of incline motor to the socket on transducer according to the position shown in the diagram, and turn on the power. Then, please hold the head position of incline motor with hands, the incline motor will automatically run and return to the original position. After the incline motor stops, turn off the treadmill power.

STEP 6



Rotate sleeve, and adjust size according to the diagram, this is the standard position of the incline motor. (horizontal position of running deck)

STEP 7

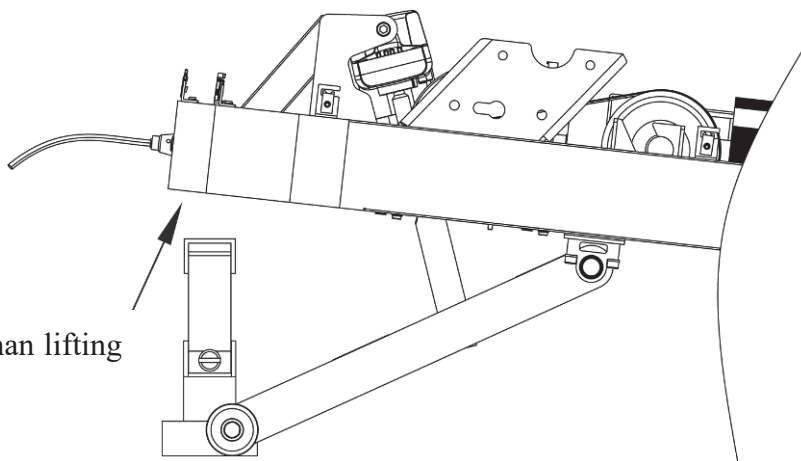


Put incline motor to the original position, and tighten the upper and lower fixing screws.

※ Please tighten the screws to certain tightness. If abnormal noise during movement, screws are possibly not tight enough. Please make moderate adjustment.

STEP 8

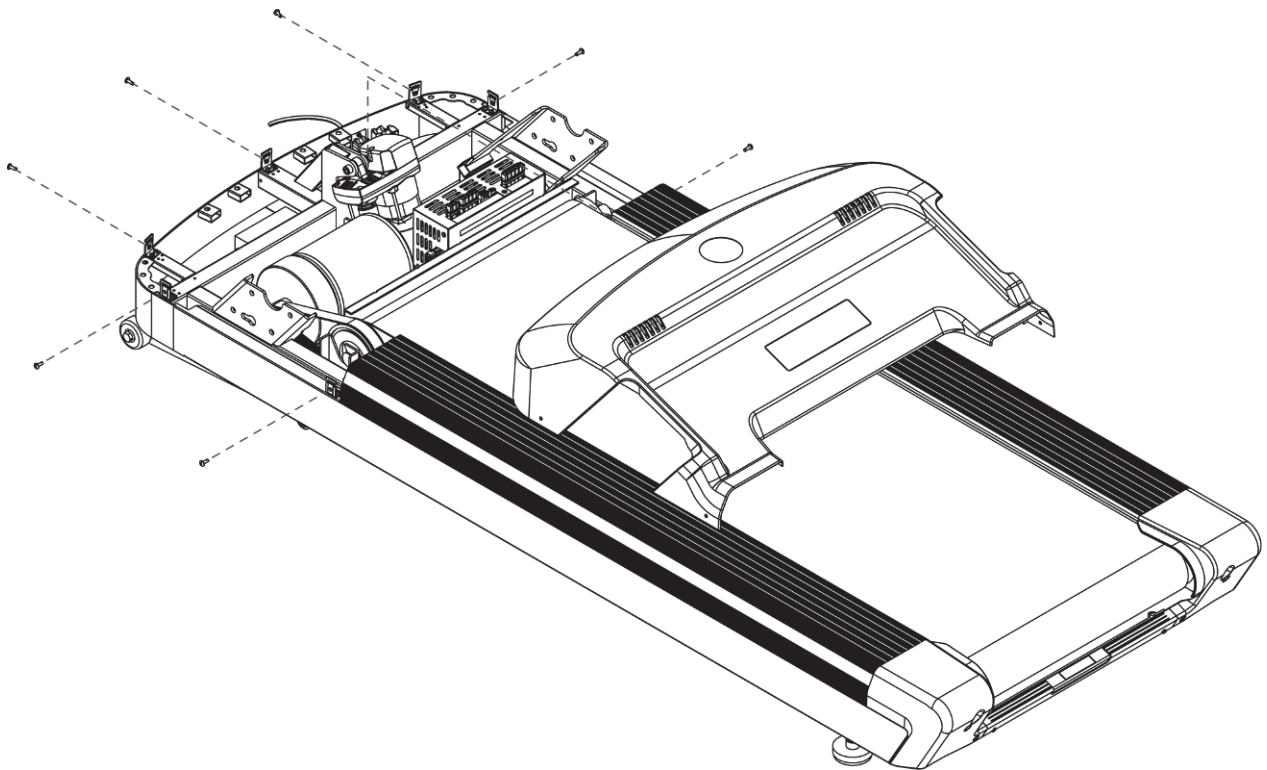
Frame height shall be higher than lifting jack



Turn on the power and start the machine. Set up the incline level to make the machine height higher than the lifting jack. Take lifting jack away, and set the incline level back to 0.

3. Replacement of running board

STEP 1



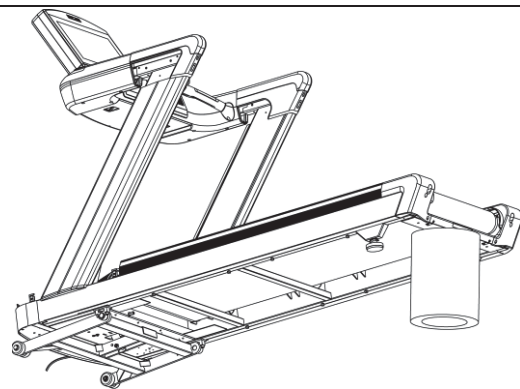
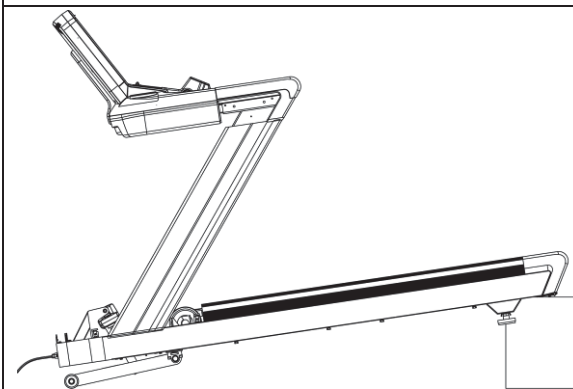
First, loosen the fixing screws of motor cover, and take motor cover apart.

STEP 2

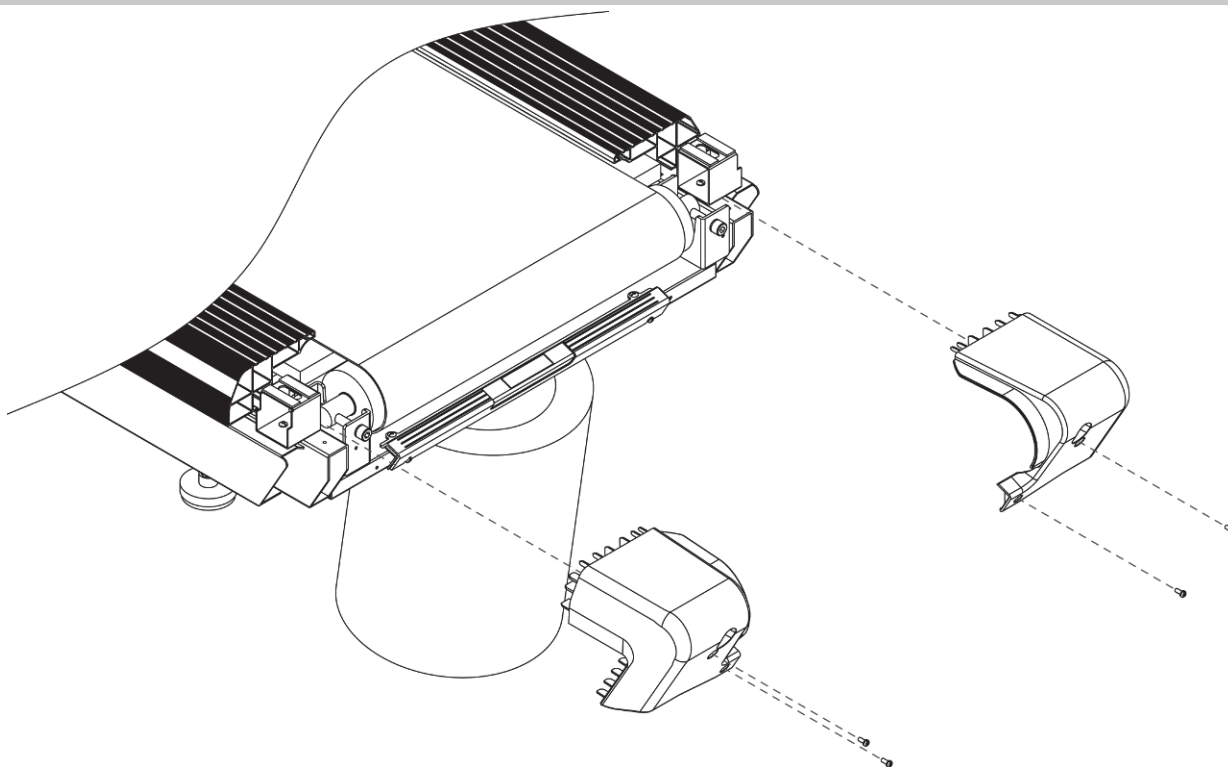
Prepare a strong support or lifting jack with 40CM ~ 50CM height, pull up the rear side of the treadmill and put on the support.

2-1. Two person are needed to lift up the frame from rear. Then one should put the block or jack below the frame.

2-2. Pay attention to the blocks location. The block should be right below the iron tube. Please refer to the following drawing to avoid danger.

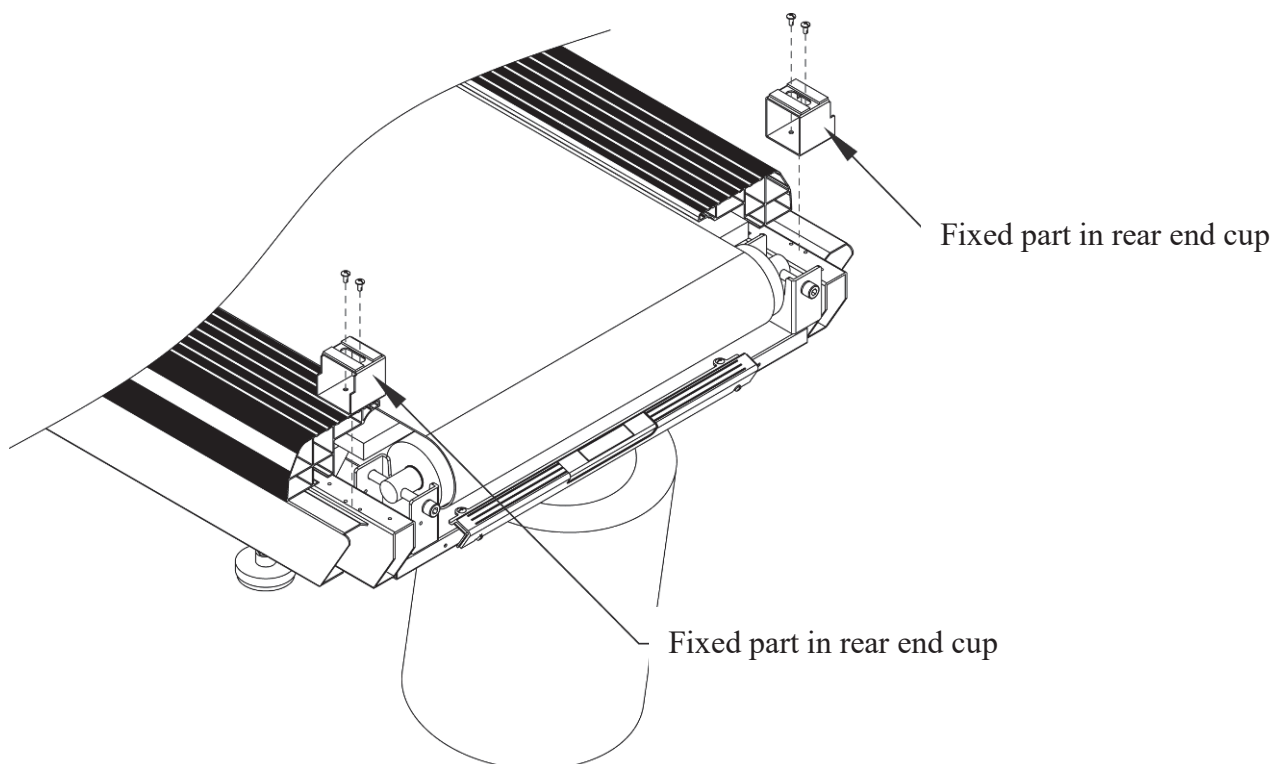


STEP 3



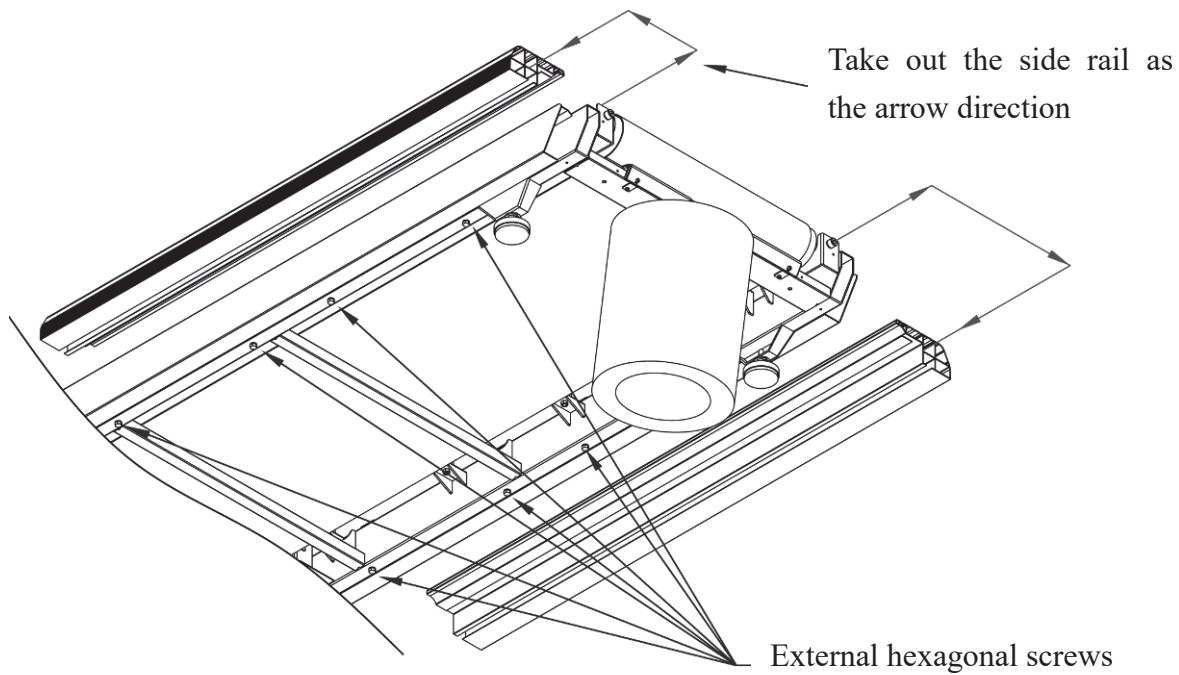
Unscrew the bolts to remove the left and right rear end cup.

STEP 4



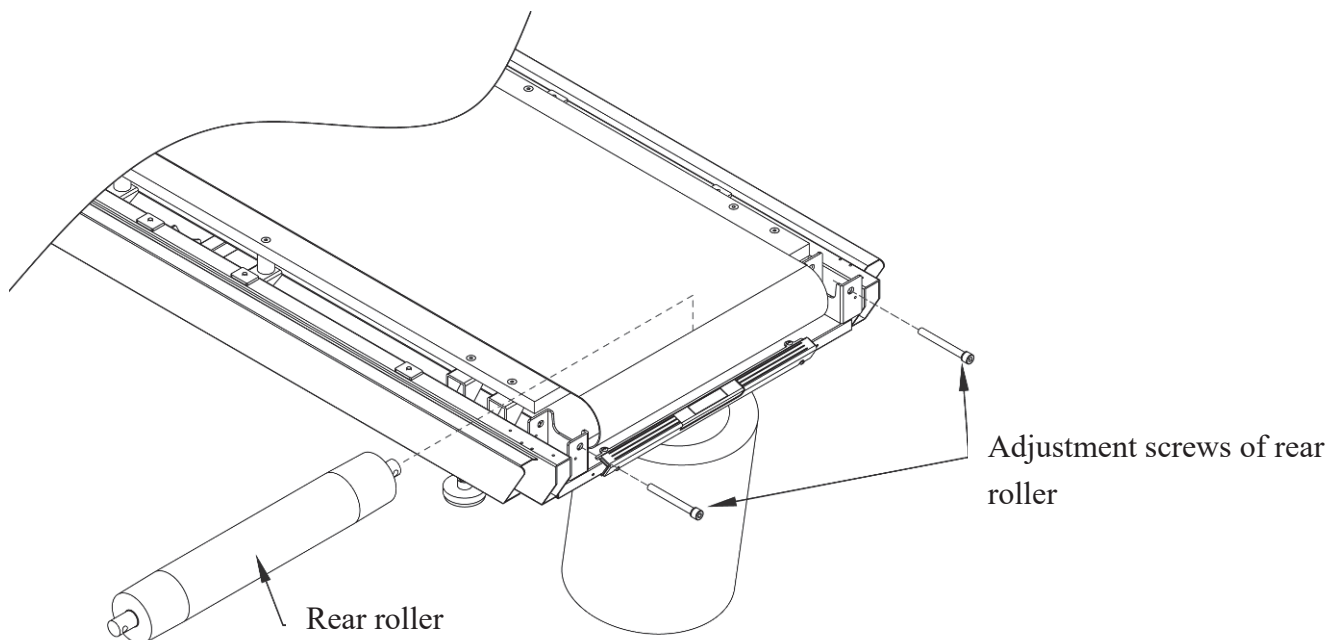
Unscrew the bolts of the end cup fixed parts, and remove the fixed parts of rear end cup.

STEP 5



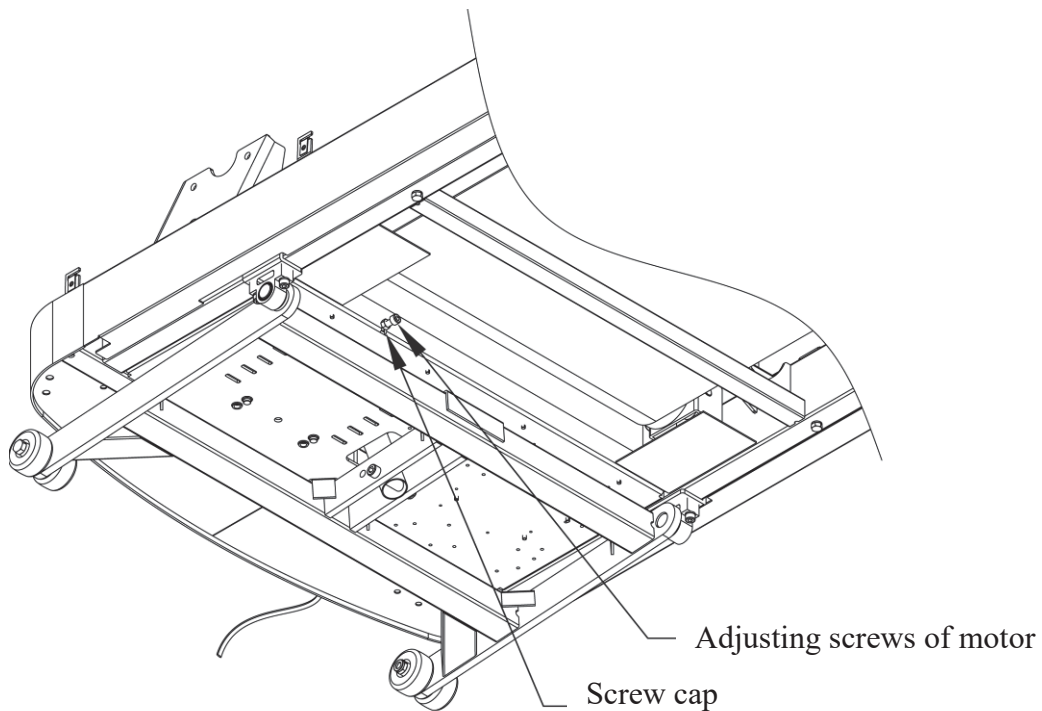
Loosen the below 8 bolts about 2~3 turns and draw the side rail backwards. If bolts are tight, you can loosen it about half turn.

STEP 6



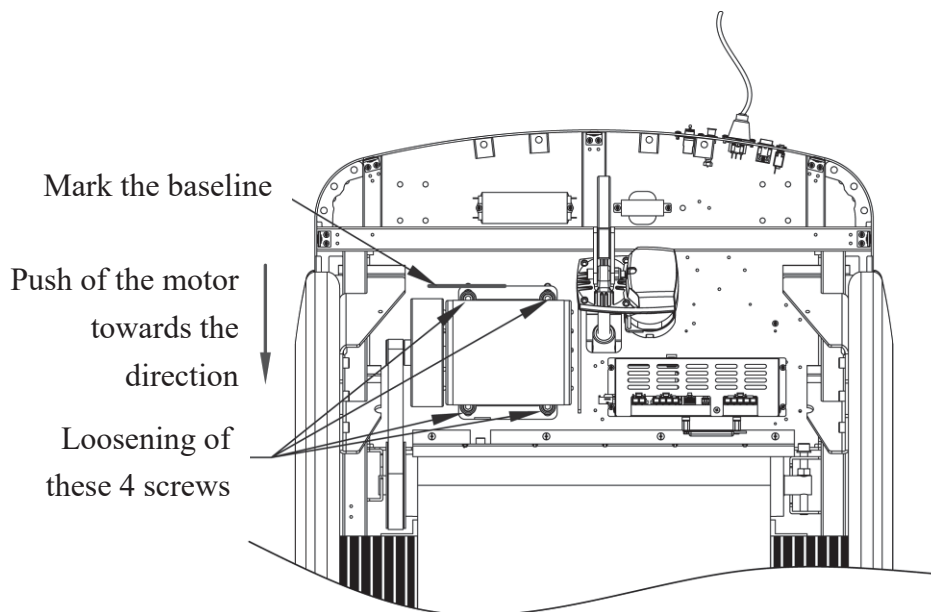
Unscrew the adjusting screws of rear rollers, and take rear rollers out. Note that axis and belt pulley can't be collided, so as to avoid damaging bearings.

STEP 7



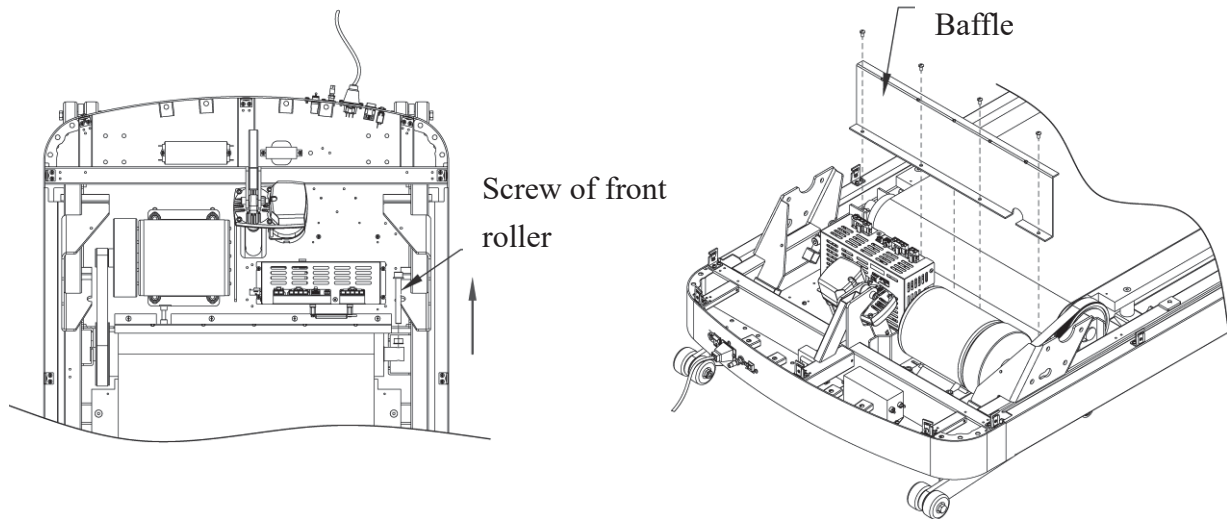
First loosen the screw caps, and loosen the adjusting screws of motor for 4 ~ 5 laps.

STEP 8



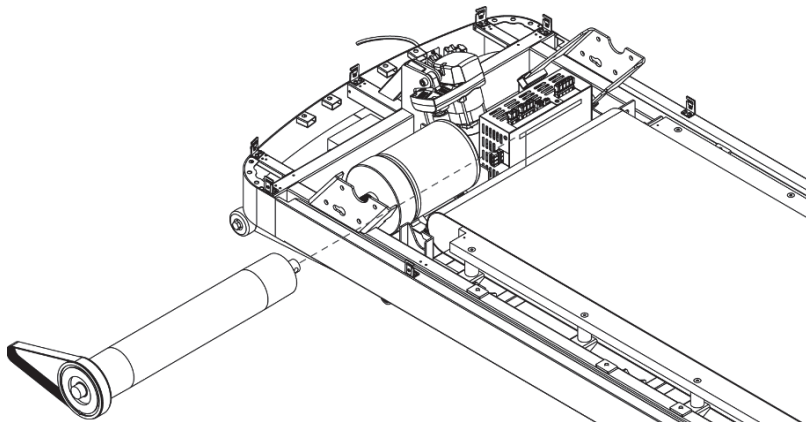
Mark a baseline for motor adjustment, then unscrew 4 bolts that lock motor .Push the motor toward running belt and let the motor driving belt to come off.

STEP 9



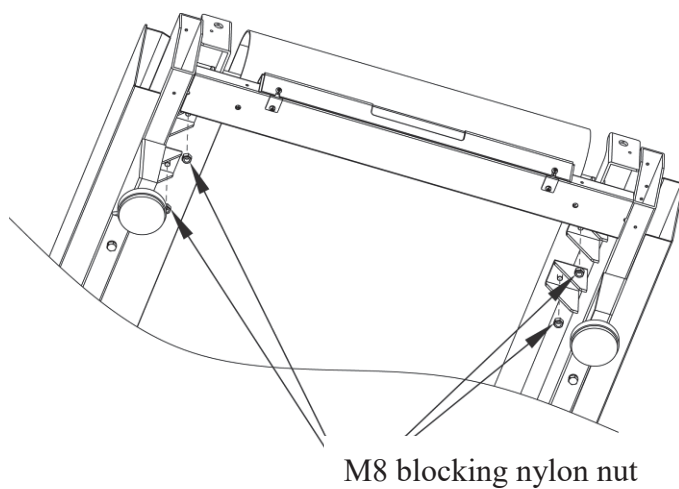
Loosen the fixing screws of front roller with the arrow direction. And loose the baffle screws to take the baffle down.

STEP 10



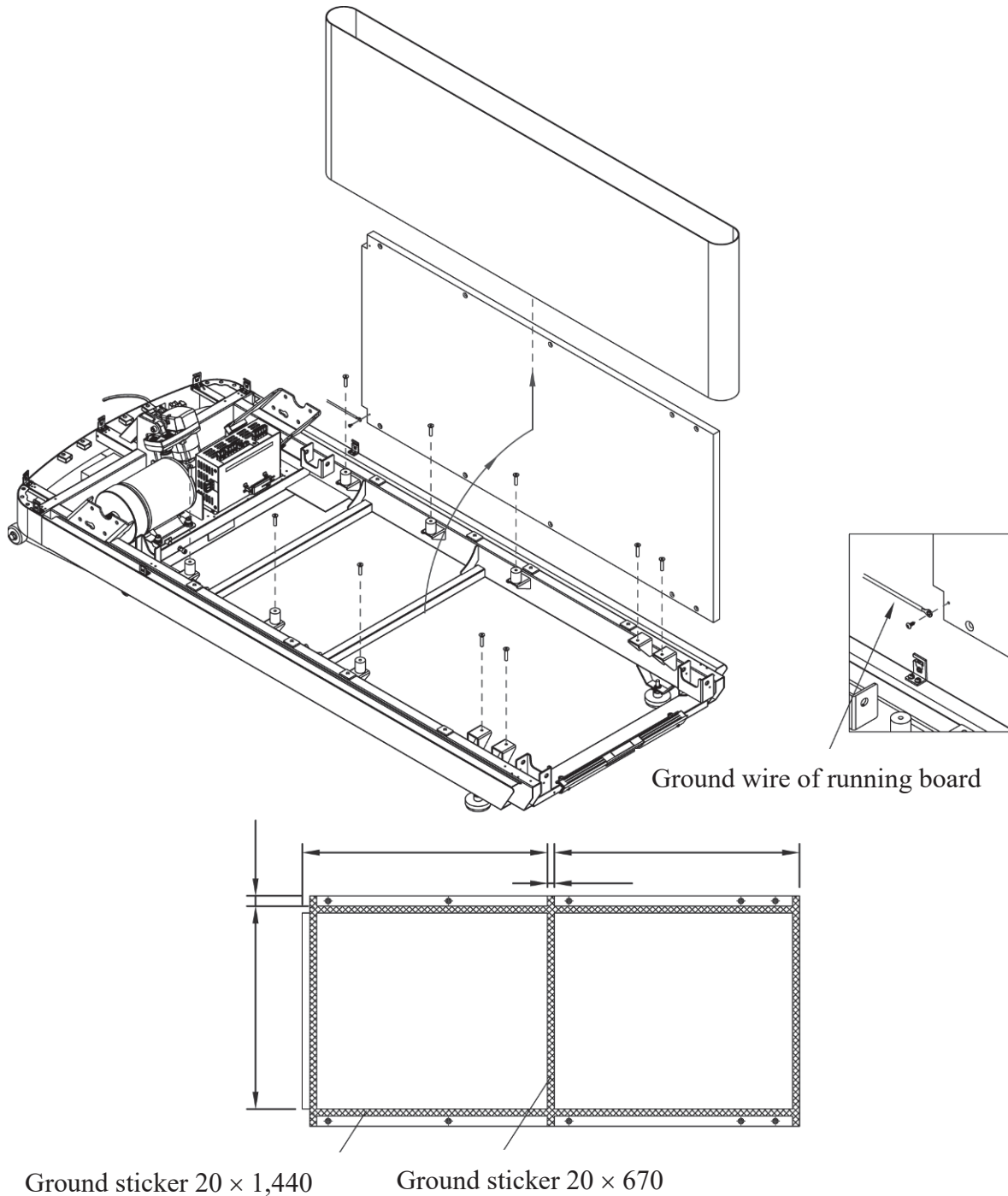
Remove the front roller and the motor driving belt. Attention: shaft and axle can't collide with other parts of treadmill as this a protection for bearing.

STEP 11



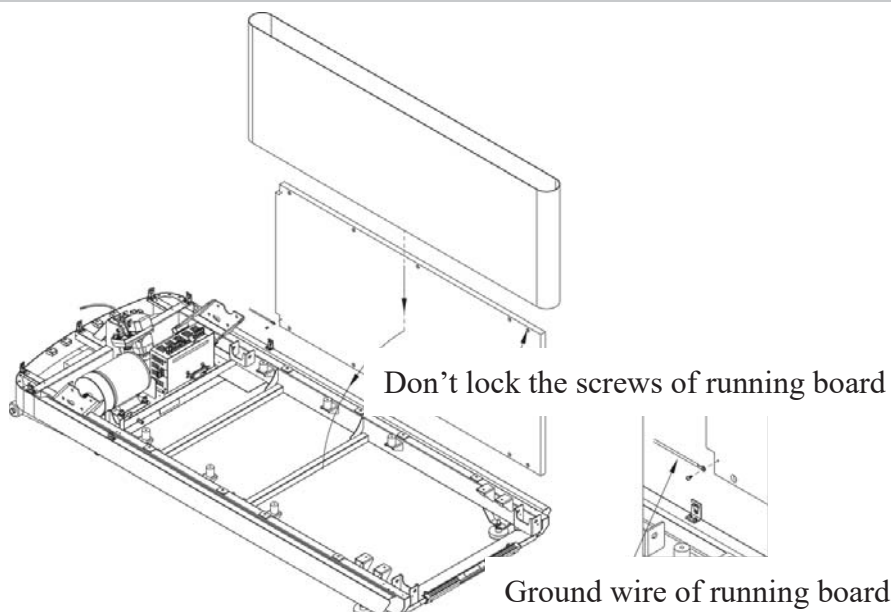
Unscrew the 4 nuts under the running board. (as shown in the diagram).

STEP 12



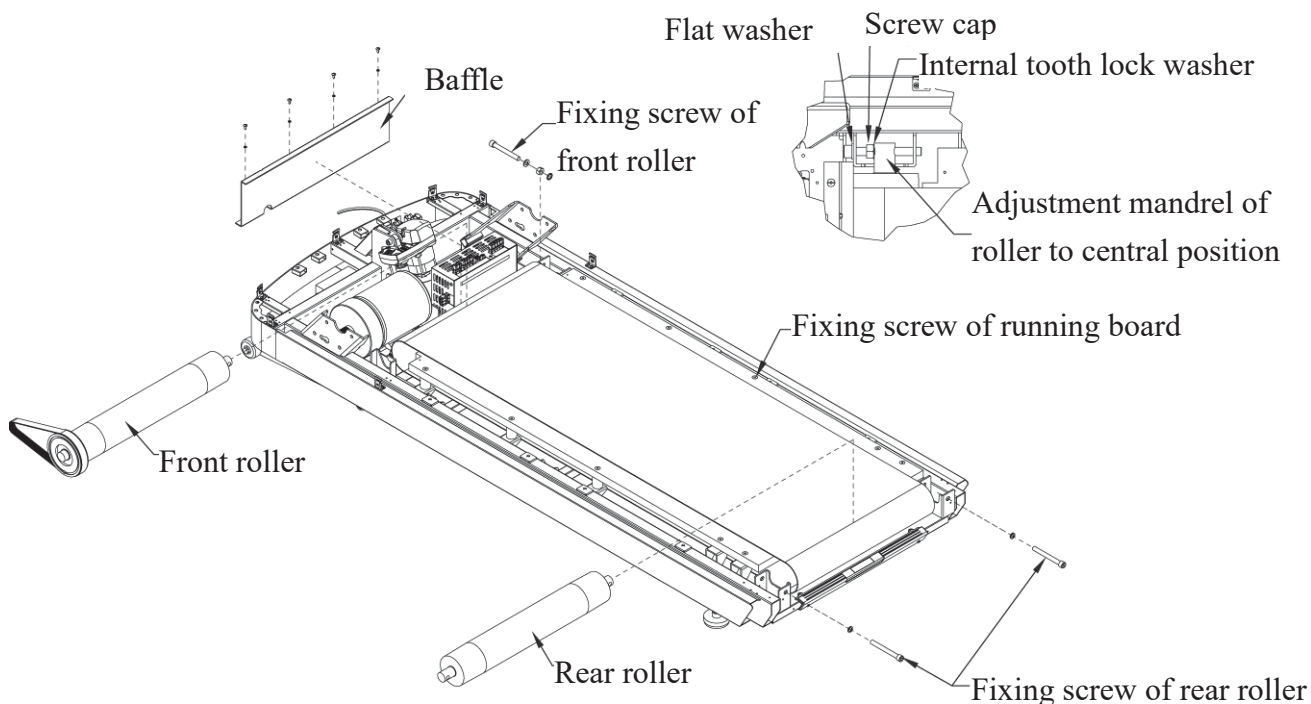
Unscrew bolts that fix running deck, then upright the deck, and then take off the bolts of the grounding wire. After that, take out the running belt. Take off the bolts which fix the running board extension plate and the extension plate. If you just want to turn over the running board, please cleanup the grounding decal with industry alcohol. After turning over, stick the new grounding decal as shown in the drawing and lock the running board extension plate to the original position

STEP 13



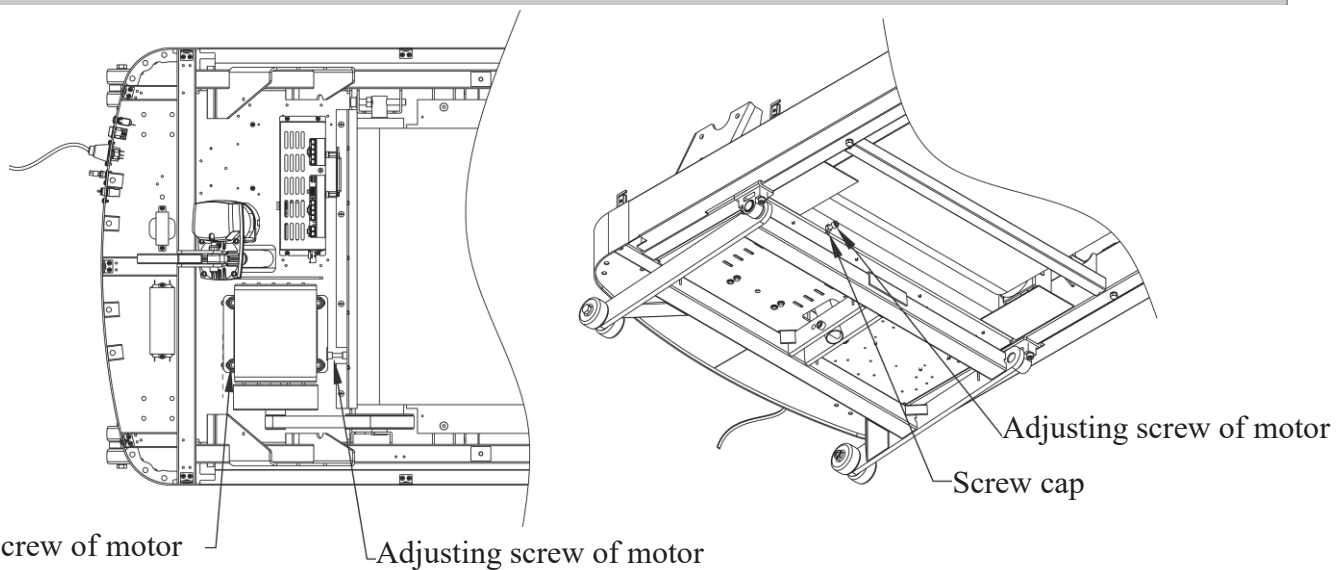
Place the new running board on frame, and put running belt back through running board according the diagram, then place the two on frame. Lock ground wire of running board, place running board on frame according to arrow direction, and fix the screws of running board without locking.

STEP 14



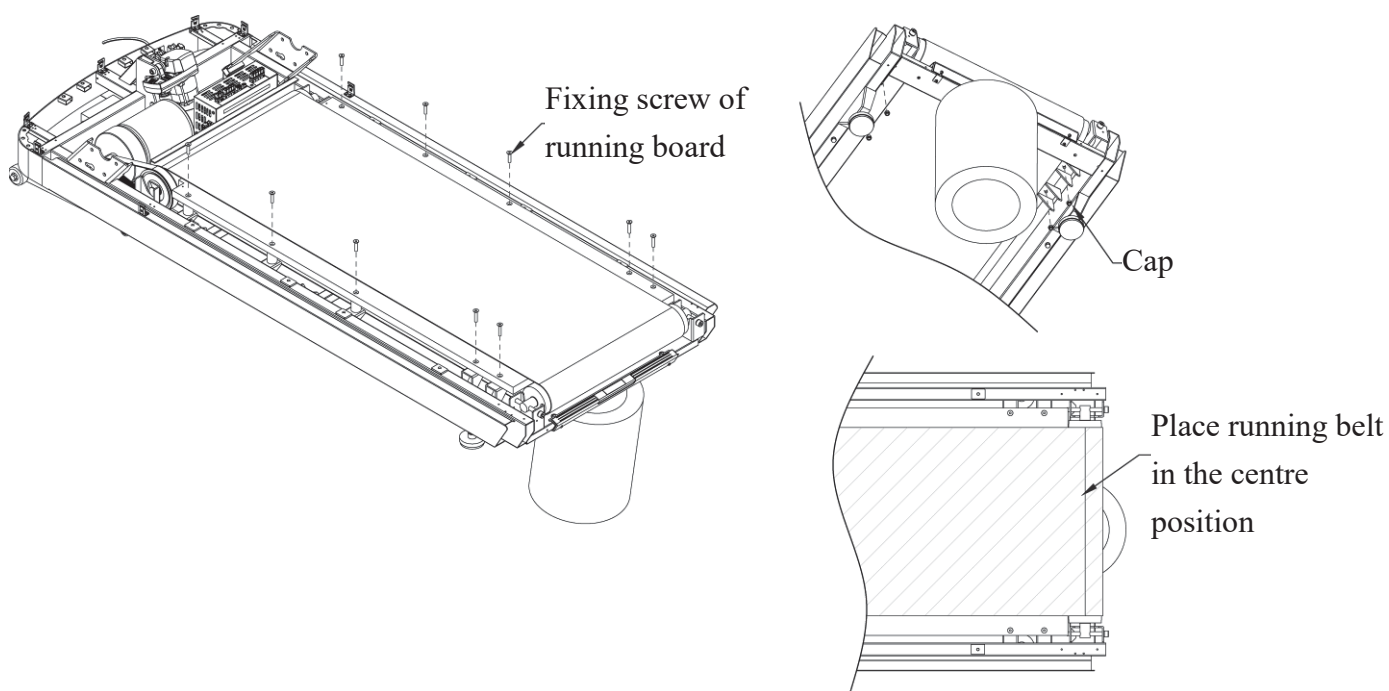
Put the front and rear rollers back, and lock screws. Next, lock the baffle and fixing screws. Finally lock the fixing screws of running board, adjust the front roller to the central position of iron sheet, make motor driving belt hook on the motor belt pulley. Adjust belt pulley position to make belt and side tube of frame keep horizontal. For rear roller, adjust the position where running board won't be collided.

STEP 15



Push the motor to the line marked earlier and tighten nut. At last, tighten the 4 bolts to 250kgf/cm (use torque wrench).

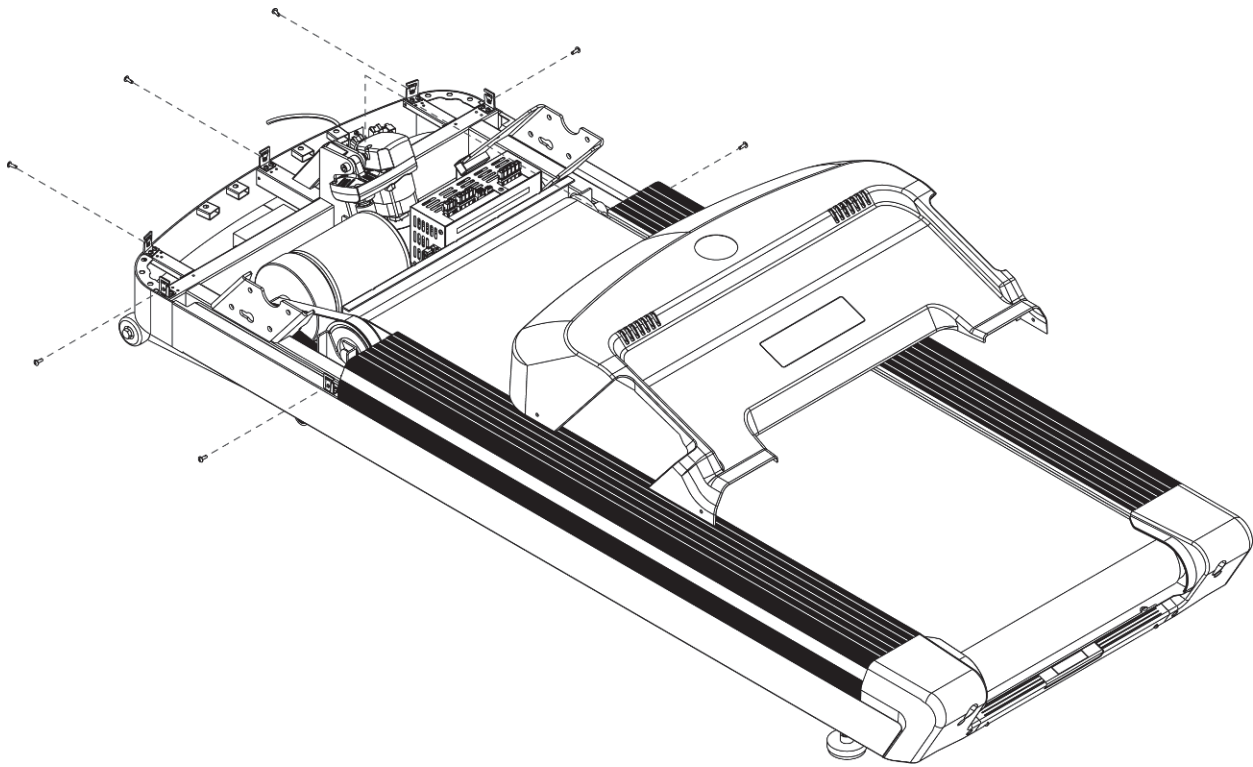
STEP 16



Tighten the fixing screws of running board and the adjust screws of rear roller. Move the running belt to about central position of frame (as shown in diagram). Then, tighten the cap, and put the rest of parts back according to the order opposite to that of previous dismounting. After taking out the support, please adjust running belt by reference of the instructions.

4. Replacement of running belt

STEP 1



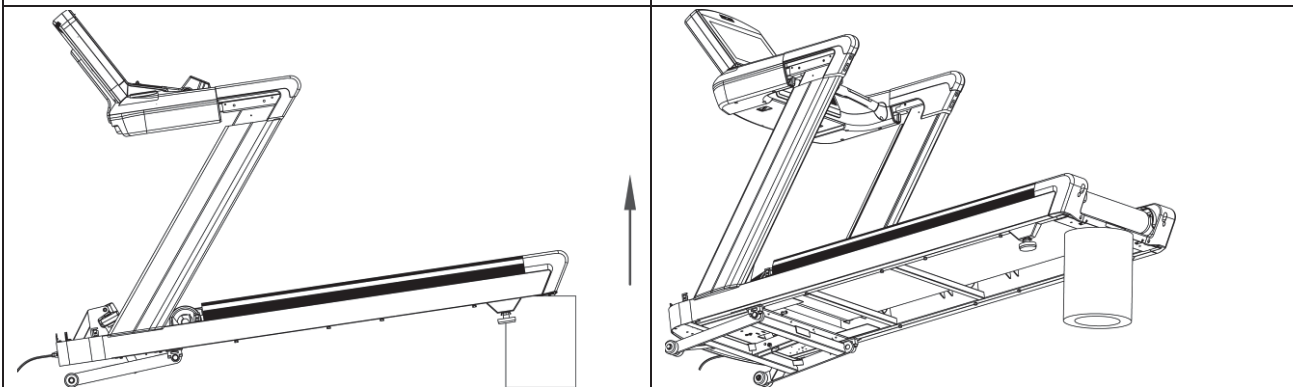
First, loosen the fixing screws of motor cover, and take motor cover apart.

STEP 2

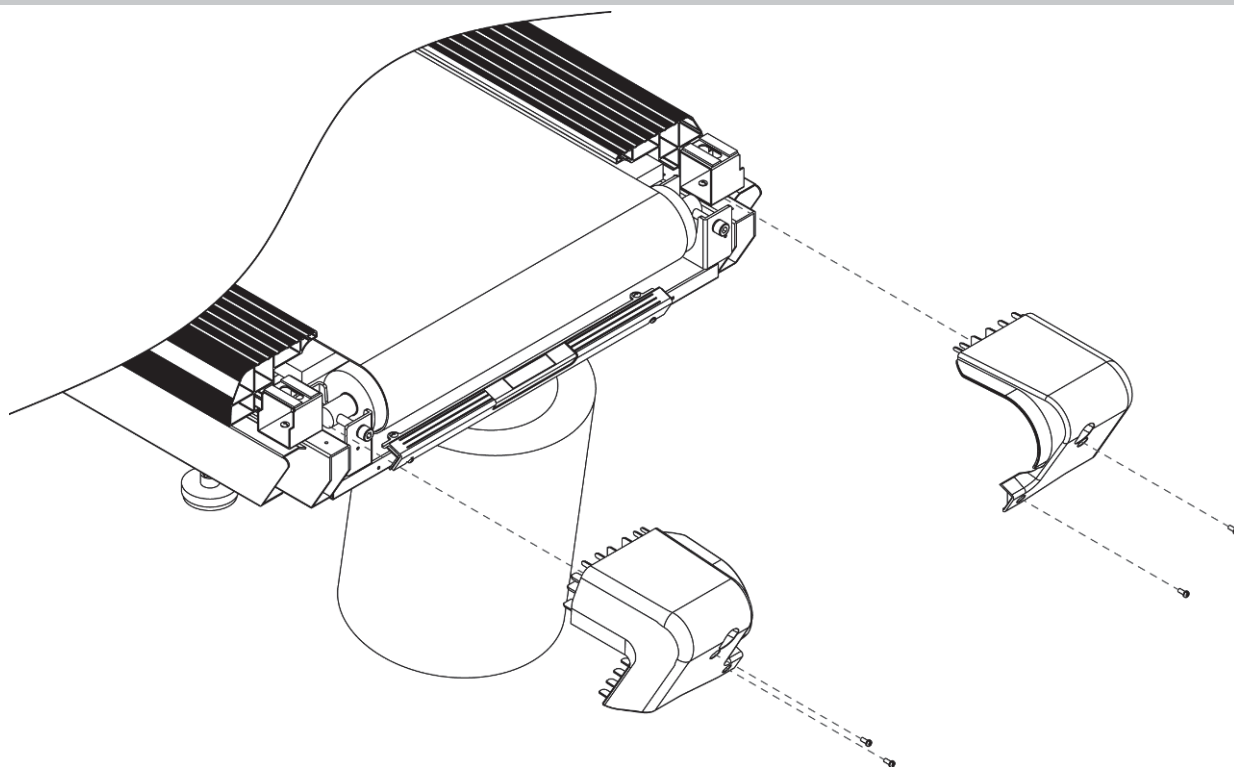
Prepare a strong support or lifting jack with 40CM ~ 50CM height, pull up the rear side of the treadmill and put on the support.

2-1. Two person are needed to lift up the frame from rear. Then one should put the block or jack below the frame.

2-2. Pay attention to the blocks location. The block should be right below the iron tube. Please refer to the following drawing to avoid danger.

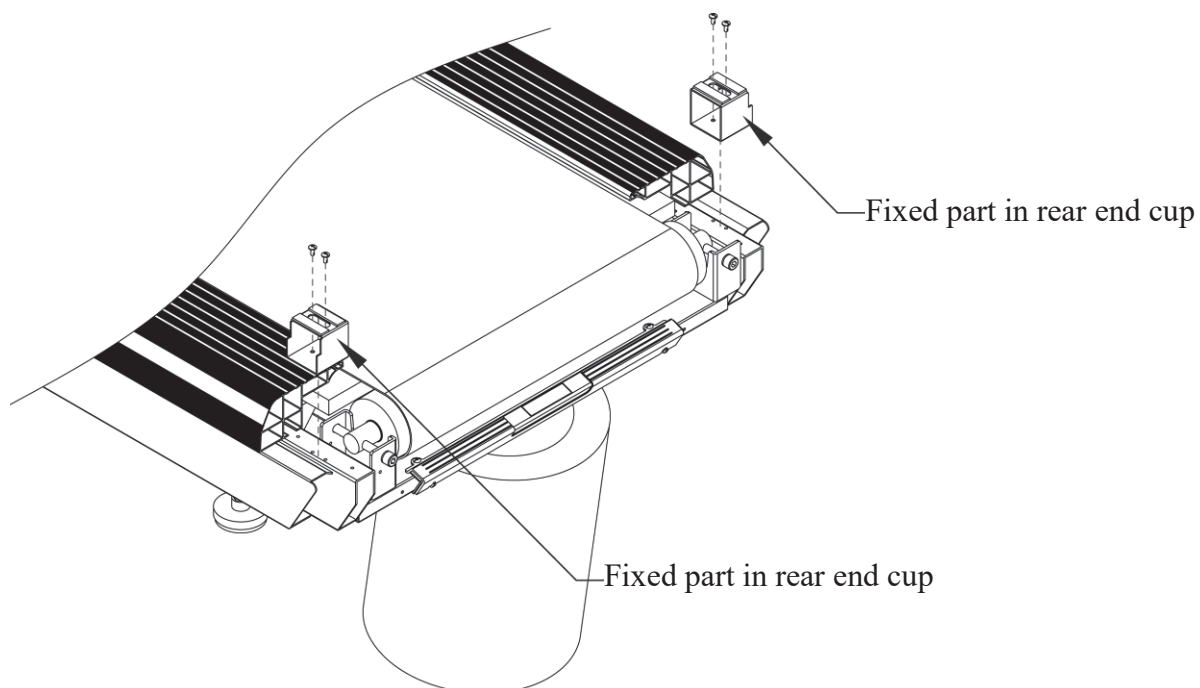


STEP 3



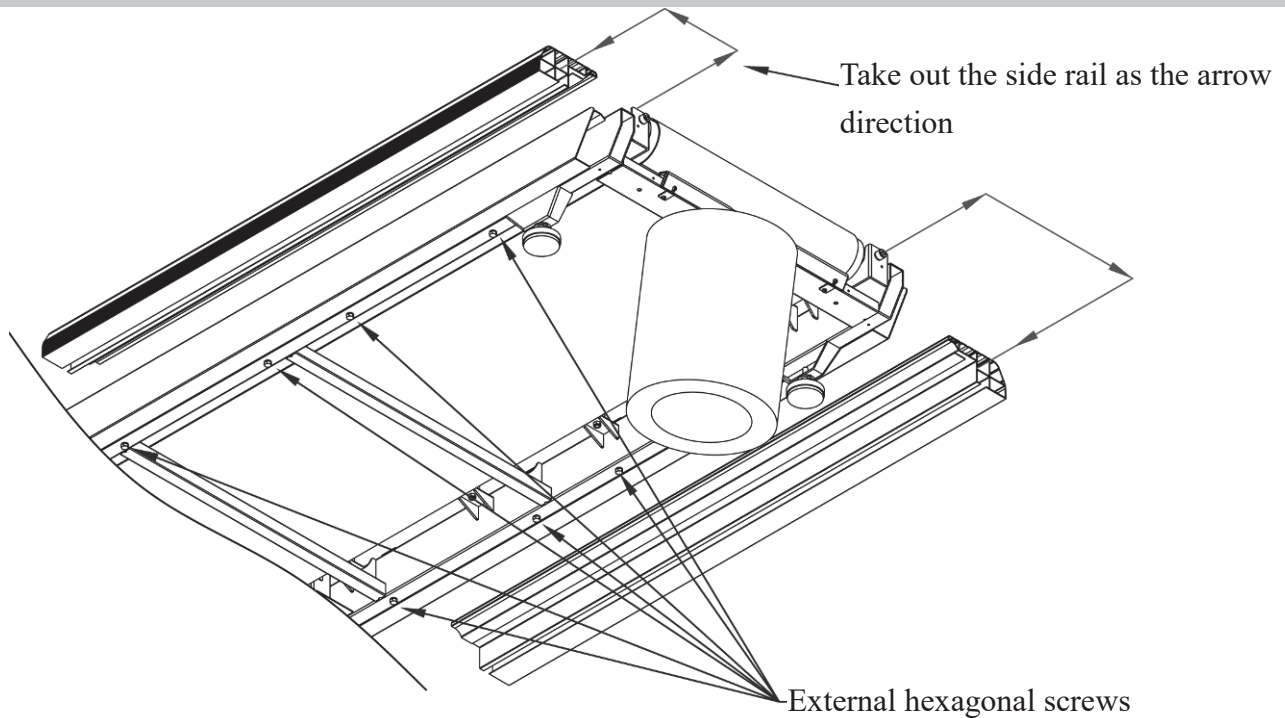
Unscrew the bolts to remove the left and right rear end cup.

STEP 4



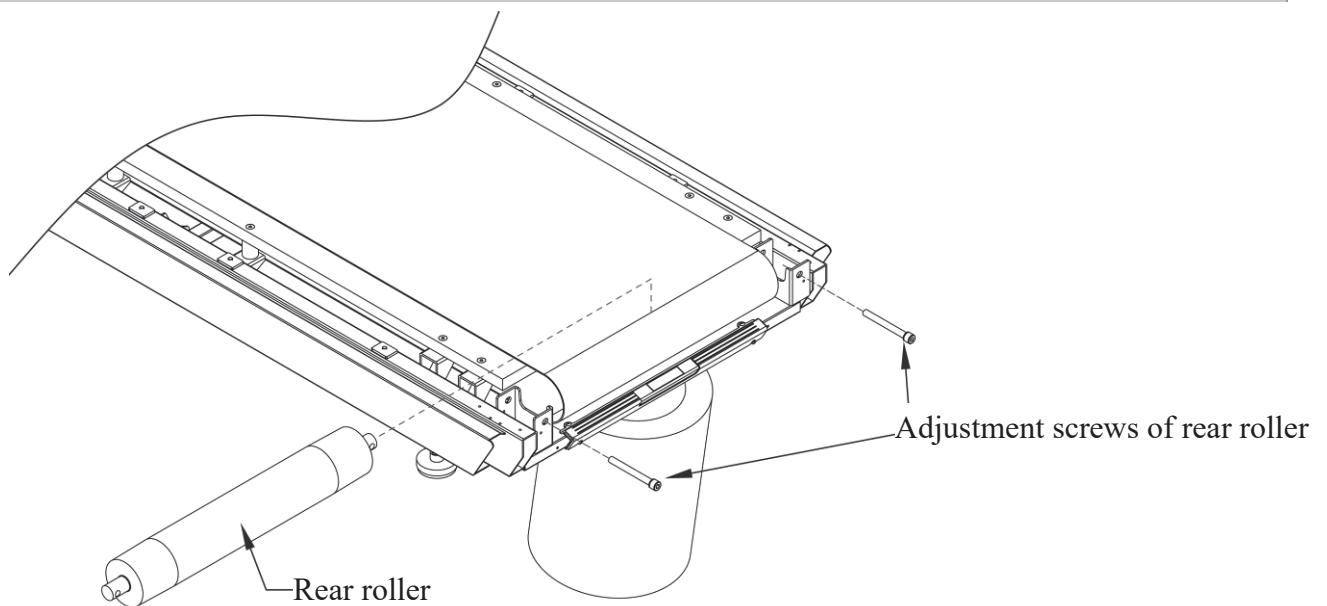
Unscrew the bolts of the end cup fixed parts, and remove the fixed parts of rear end cup.

STEP 5



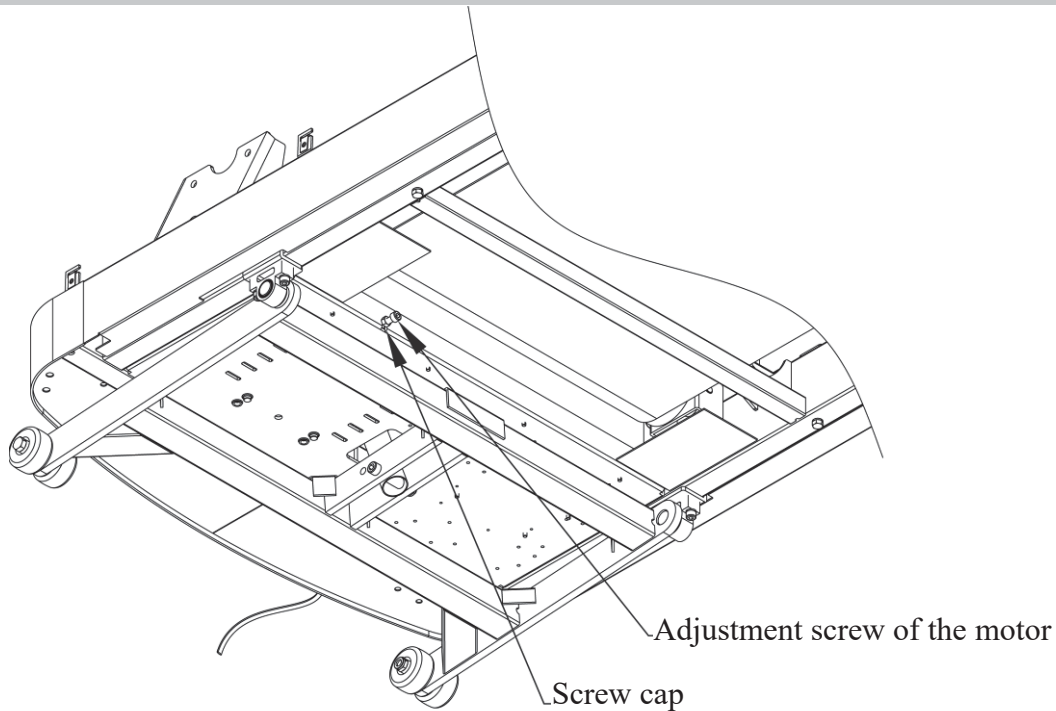
Loosen the below 8 bolts about 2~3 turns and draw the side rail backwards. If bolts are tight, you can loosen it about half turn.

STEP 6



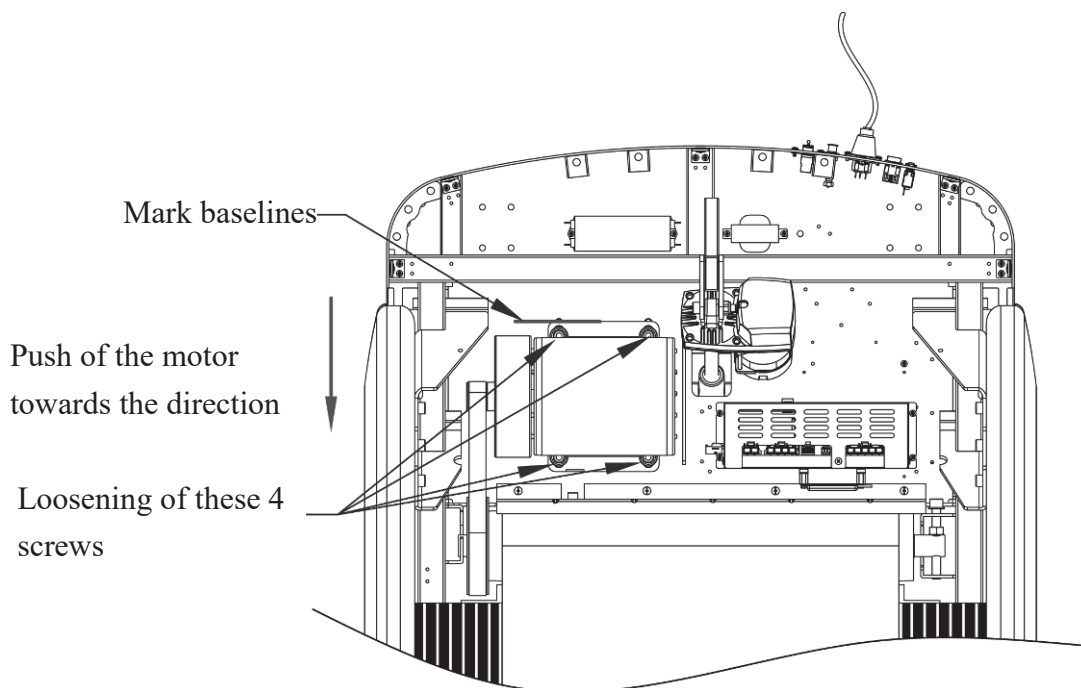
Unscrew the adjusting screws of rear rollers, and take rear rollers out. Note that axis and belt pulley can't be collided, so as to avoid damaging bearings.

STEP 7



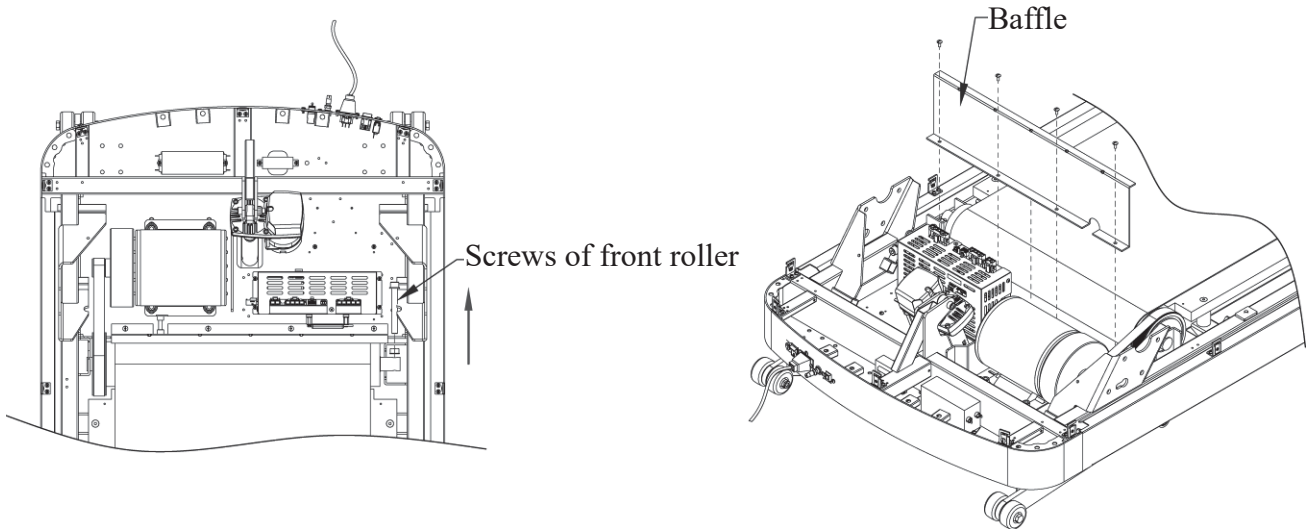
First, loosen screw cap, and loosen the adjustment screw of the motor about 4 to 5 laps.

STEP 8



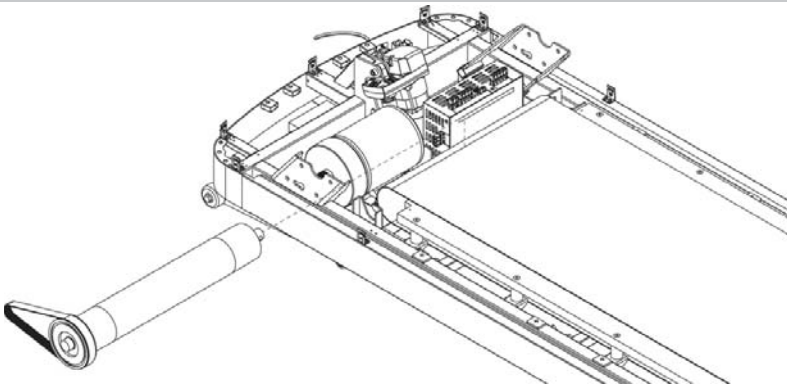
Mark a baseline for motor adjustment, then unscrew 4 bolts that lock motor .Push the motor toward running belt and let the motor driving belt to come off.

STEP 9



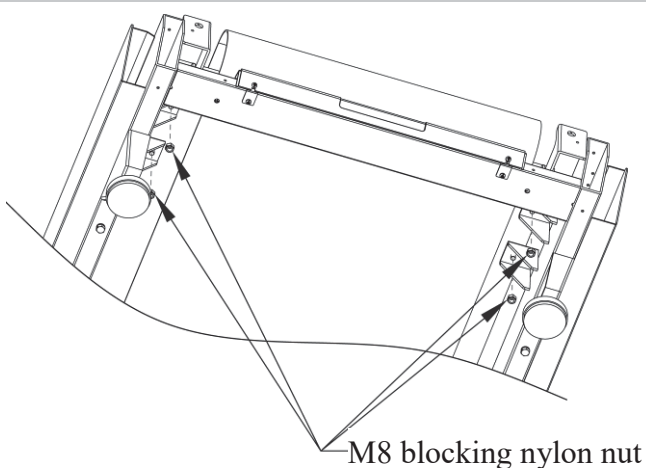
Loosen the fixing screws of front roller with the arrow direction. And loose the baffle screws to take the baffle down.

STEP 10



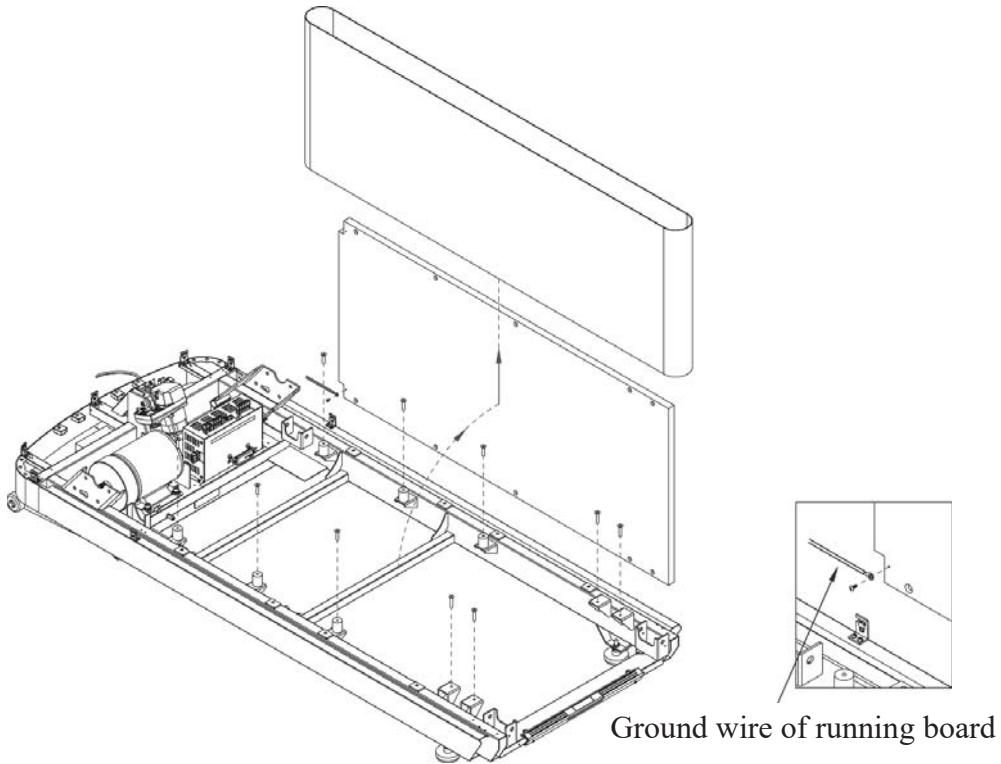
Remove the front roller and the motor driving belt. Attention: shaft and axle can't collide with other parts of treadmill as this a protection for bearing.

STEP 11



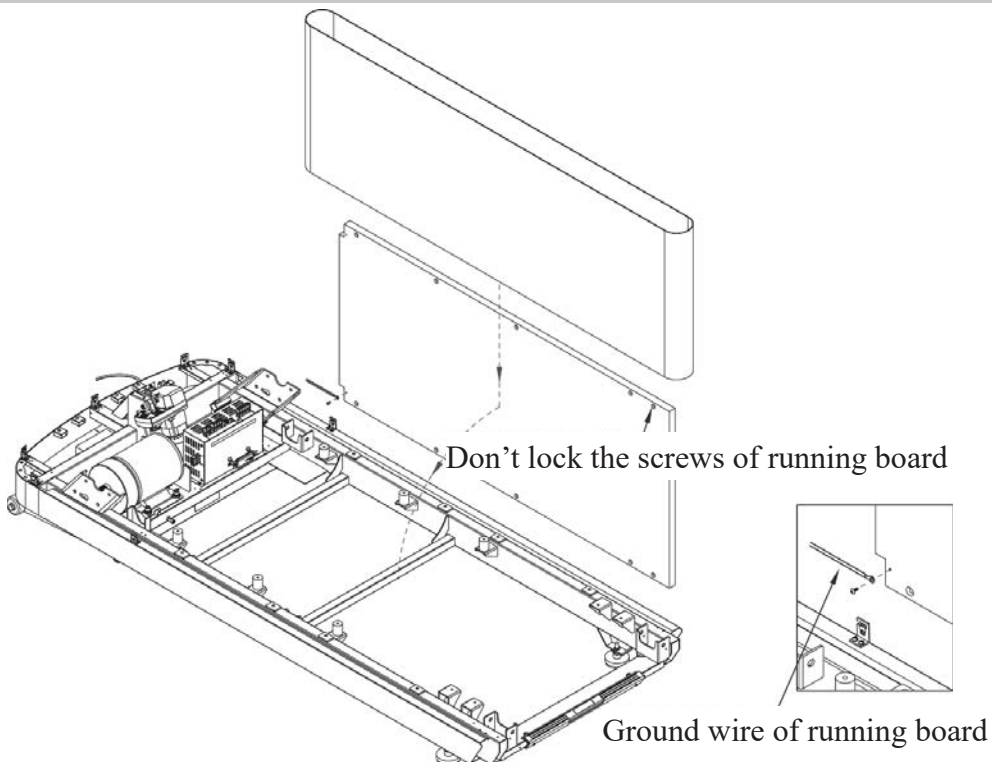
Unscrew 4 nuts beneath running deck (as shown in the diagram).

STEP 12



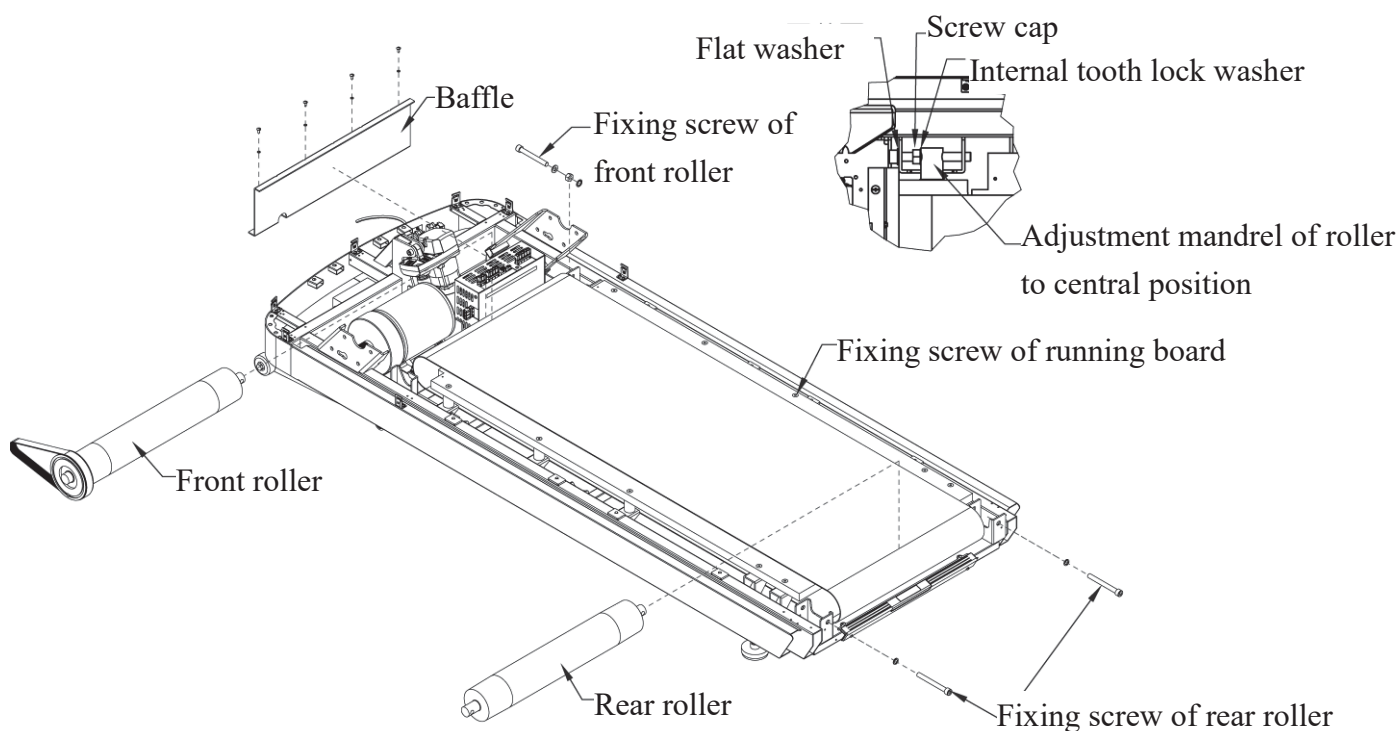
Unscrew bolts that fix running deck, then upright the deck, and then take off the bolts of the grounding wire. After that, take out the running belt.

STEP 13



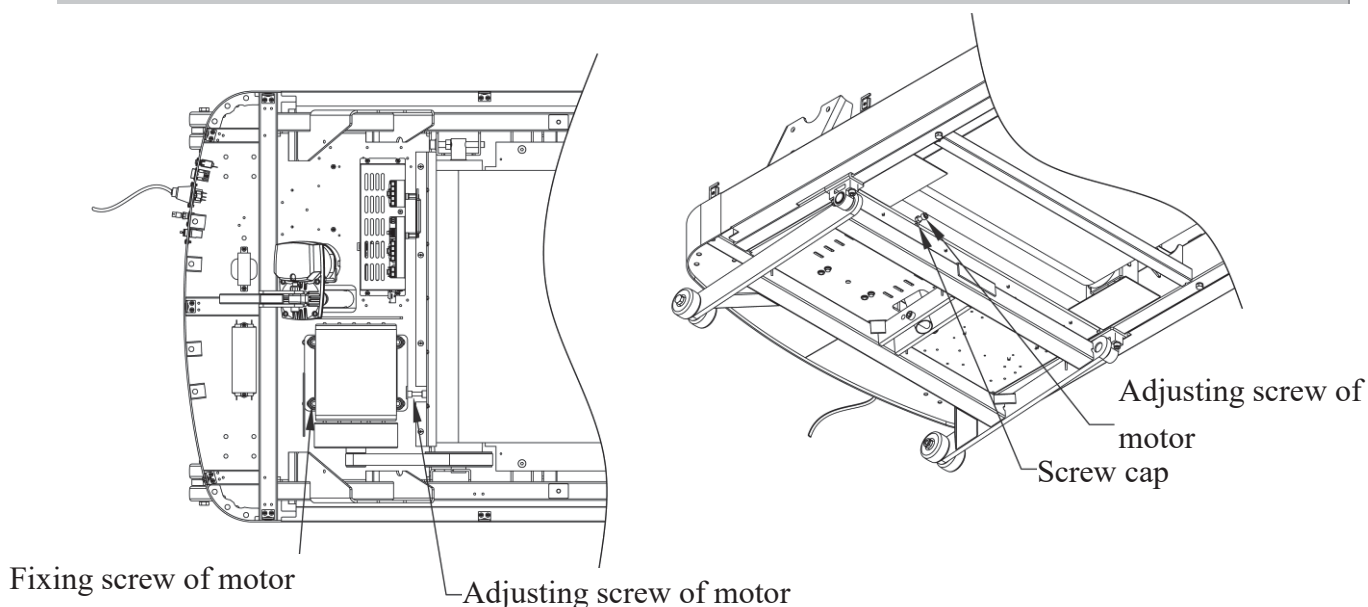
Daub some SILICON on the new running belt (Please refer to the owner's manual). Pull belt back to the deck. And put deck evenly on the frame. Screw back the ground wire of the running deck. Not to tighten the running board screw yet.

STEP 14



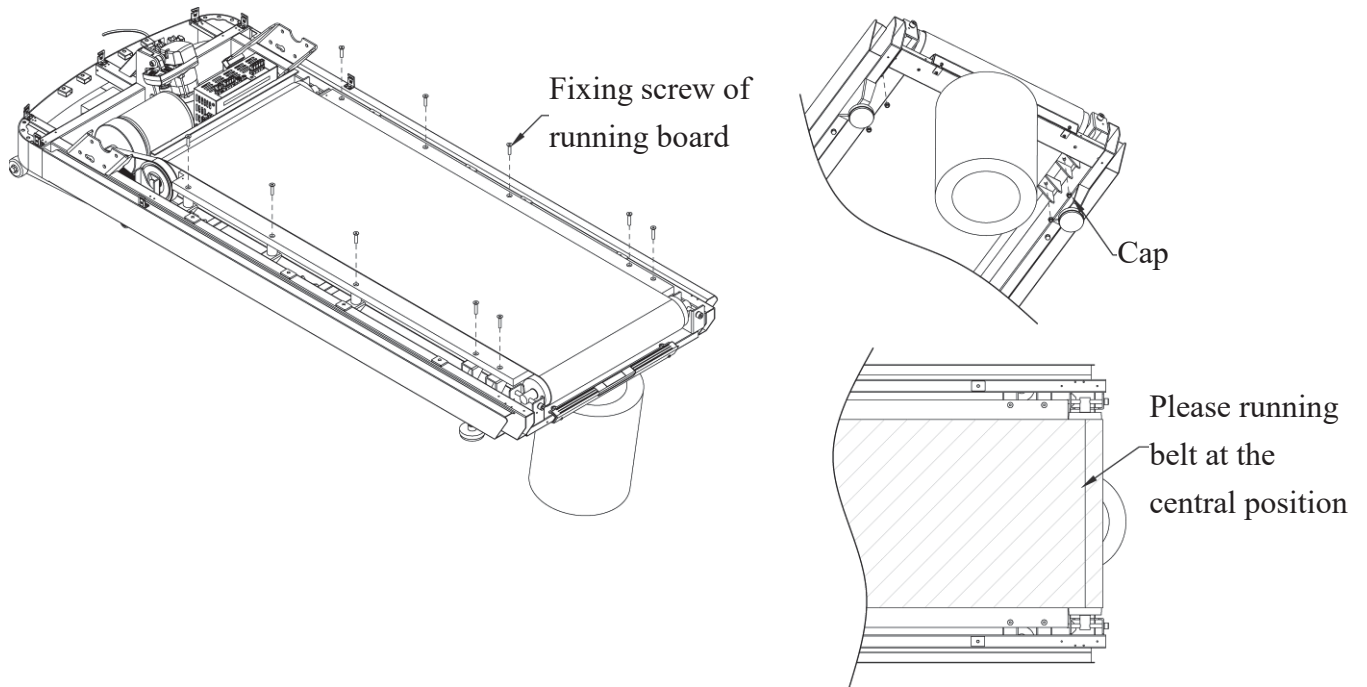
Put the front and rear rollers back, and lock screws. Next, lock the baffle and fixing screws. Finally lock the fixing screws of running board, adjust the front roller to the central position of iron sheet, make motor driving belt hook on the motor belt pulley. Adjust belt pulley position to make belt and side tube of frame keep horizontal. For rear roller, adjust the position where running board won't be collided.

STEP 15



Push the motor to the line marked earlier and tighten nut. At last, tighten the 4 bolts to 250kgf/cm(use torque wrench).

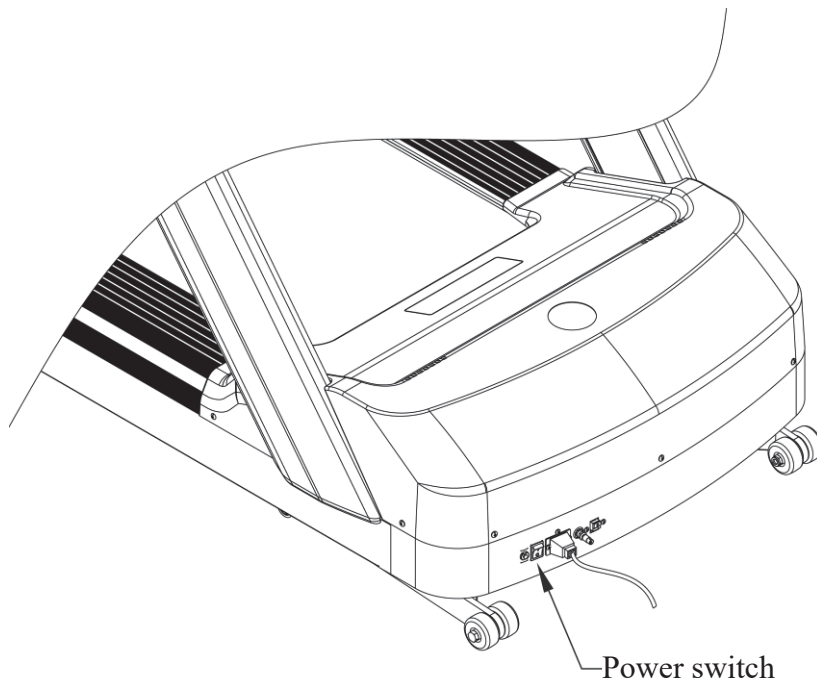
STEP 16



Tighten the fixing screws of running board and the adjust screws of rear roller. Move the running belt to about central position of frame (as shown in diagram). Then, tighten the cap, and put the rest of parts back according to the order opposite to that of previous dismounting. After taking out the support, please adjust running belt by reference of the instructions.

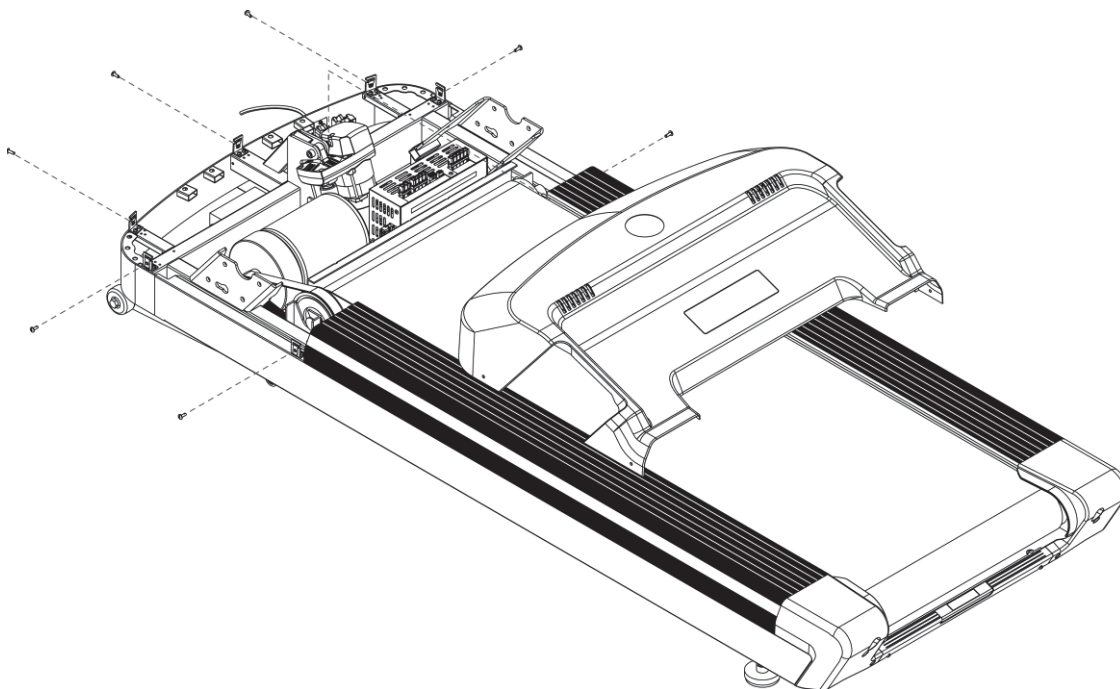
5. Replacement of inverter

STEP 1



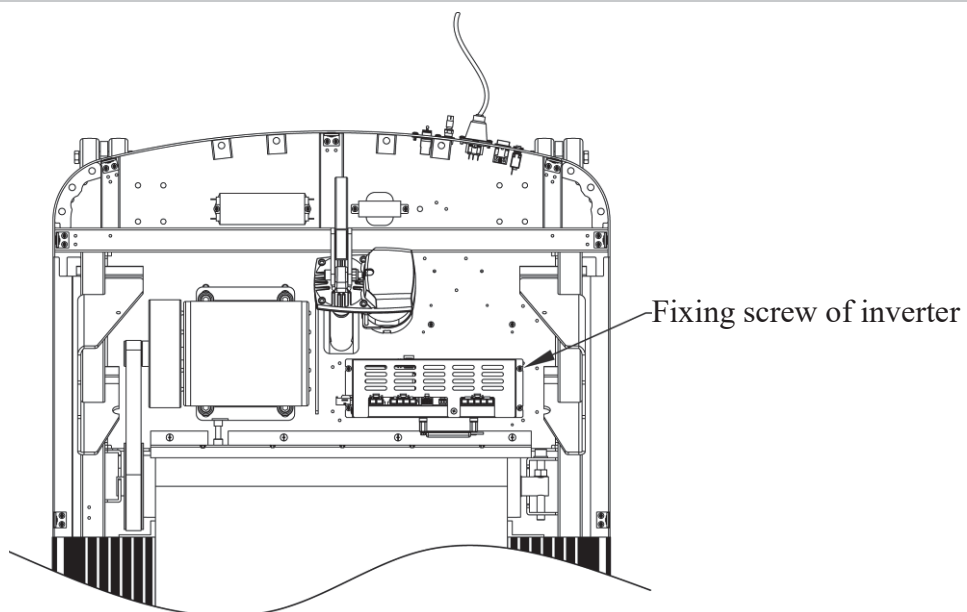
Turn off the power, and wait for 20 seconds to let the electrical to shut down completely. Ensure the electric in the inverter had released, then keep going for the next steps.

STEP 2



First, loosen the fixing screws of motor cover, and take motor cover apart.

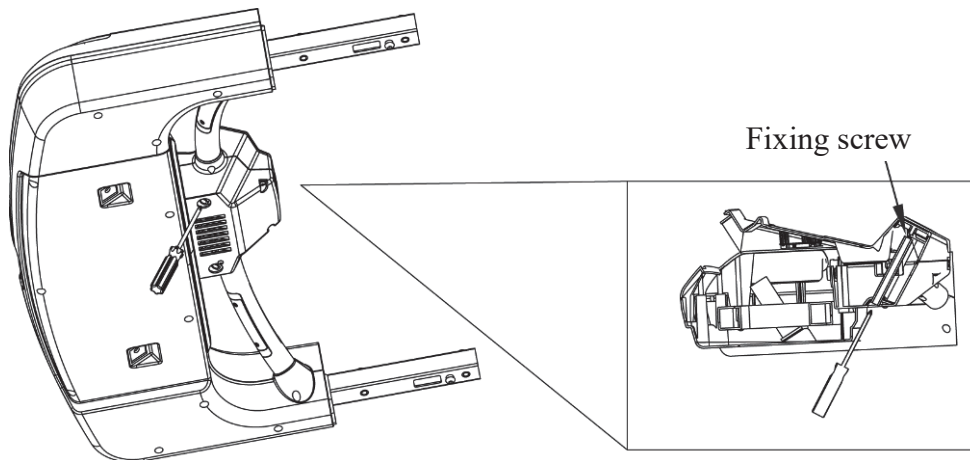
STEP 3



Disconnect all the cable with the inverter and loosen the 4 fixing screws of inverter. After replace the inverter, connect all the cable back and tighten the fixing screws.

6. Replacement of thin membrane keys

STEP 1

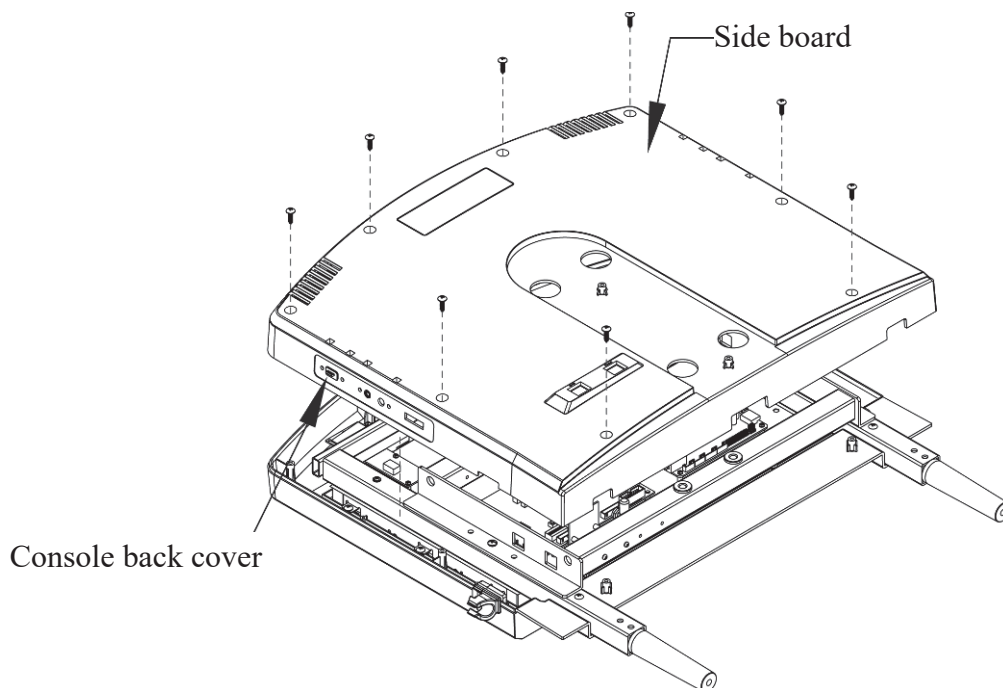


※ There are two small holes at the bottom of the control box, prepare a cross screwdriver, remove the fixing screws through the round holes. Take out the upper cover of the control box, disassemble the connector of the membrane sticker. After tearing off the faulty membrane, be sure to remove the sticker residue on the plastic surface, then stick the new membrane on the plastic, connect the connector of the membrane, and then lock the screw back.

※ Please note that when sticking the membrane sticker, pay attention to the surface of membrane must be flat, and press the membrane around with your fingertips to ensure that there is no air or gap in it to prevent the keys from being damaged by dripping sweat.

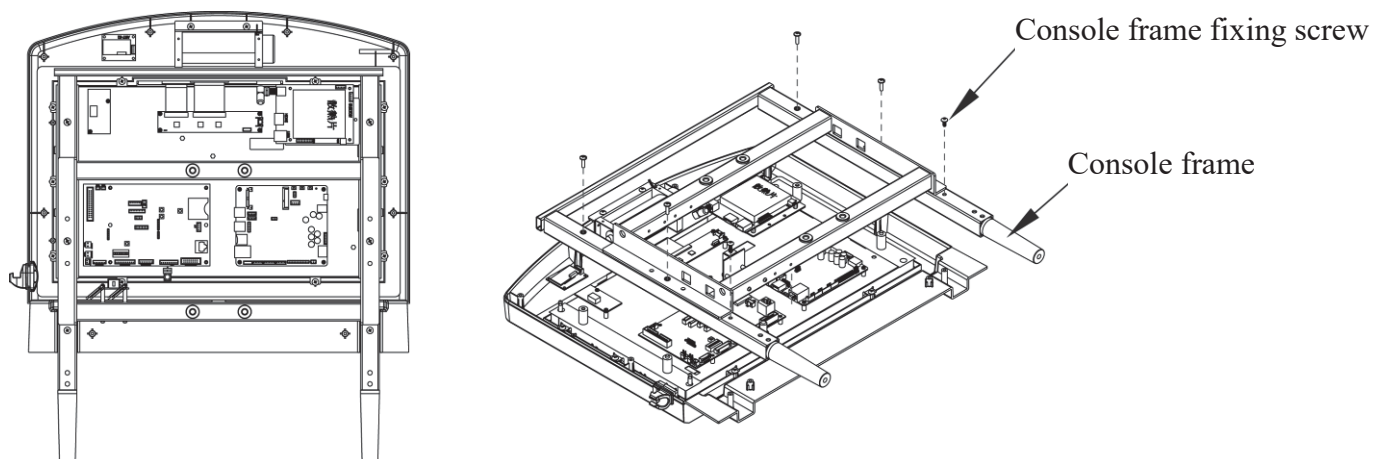
7. Replacement of console boards

STEP 1



Unscrew the fixing screws of console, and slightly take up the console back cover to disconnect the wire to the side board. Then, take up the console back cover.

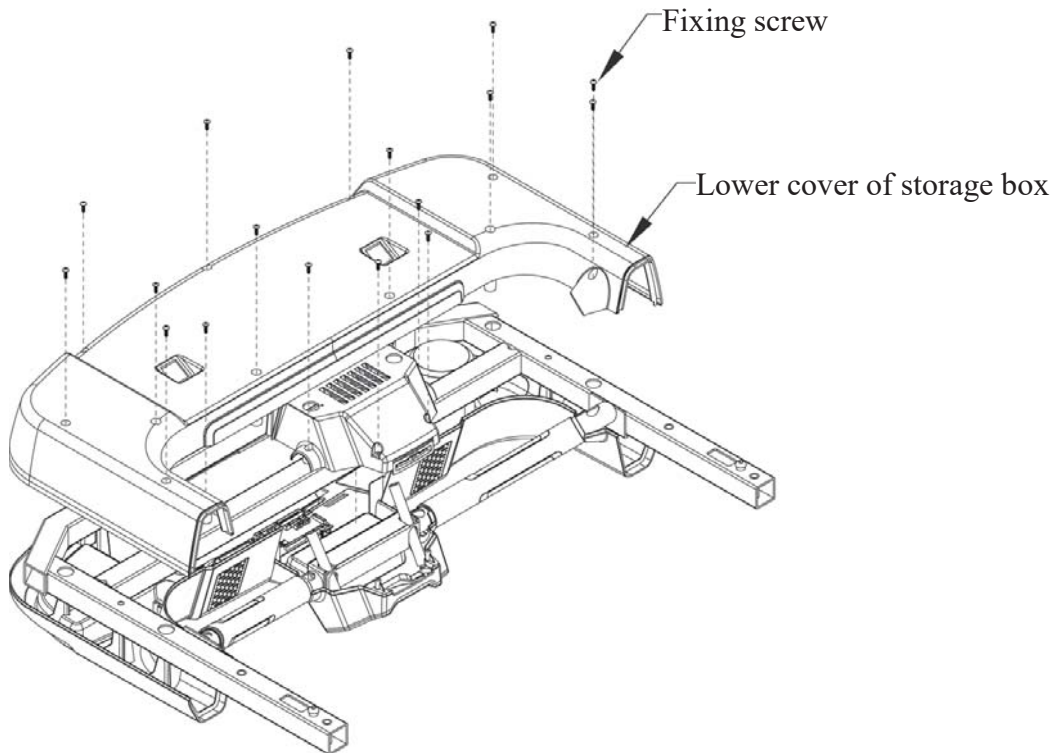
STEP 2



Before replace the electronic boards, please record all the wire connection port, do not mis-connect the wires. If it need to replace the monitor or panel part, please unscrew the console frame fixing screw and take down the console frame before replace the parts. After complete replacement, please turn on the power to test the function before start the exercise.

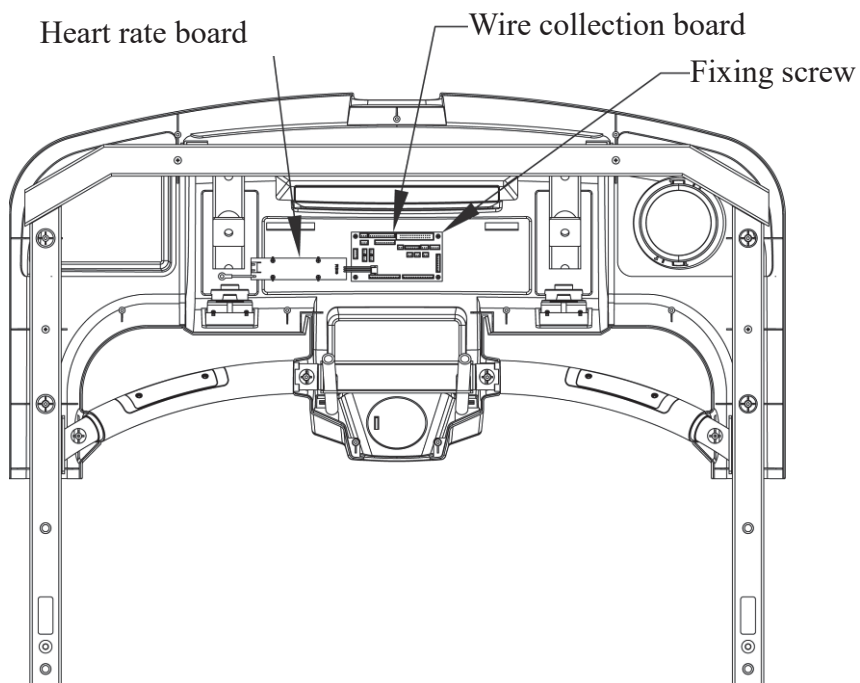
8. Replacement of wire collection board and heart rate board

STEP 1



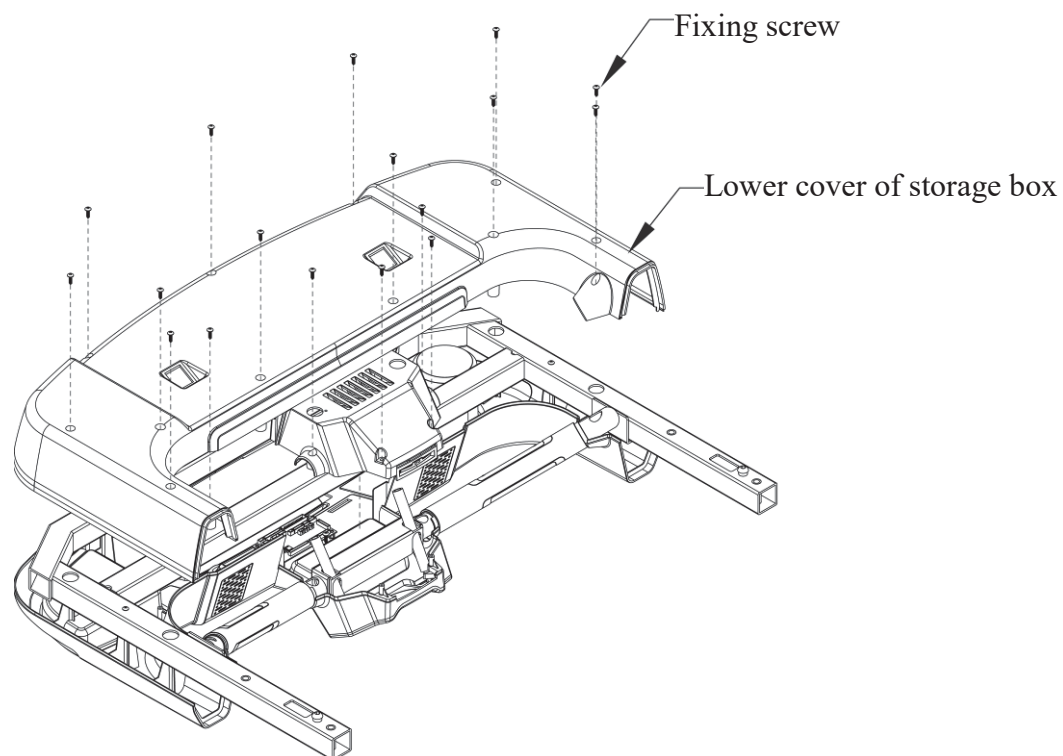
Remove fixing screws, and take down the lower cover of storage box.

STEP 2



Disconnect the wire to the wire collection board or the heart rate board. Unscrew the fixing bolt and replace the new boards. Connect the wires back and lock the screws back to complete the work.

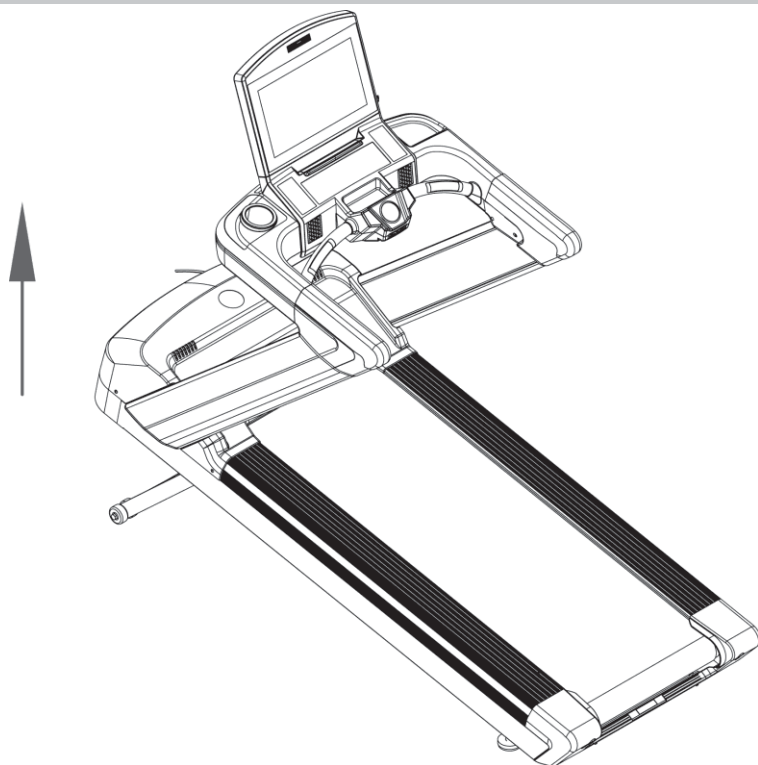
STEP 3



Put back for the lower cover of storage and bolt the screws back.

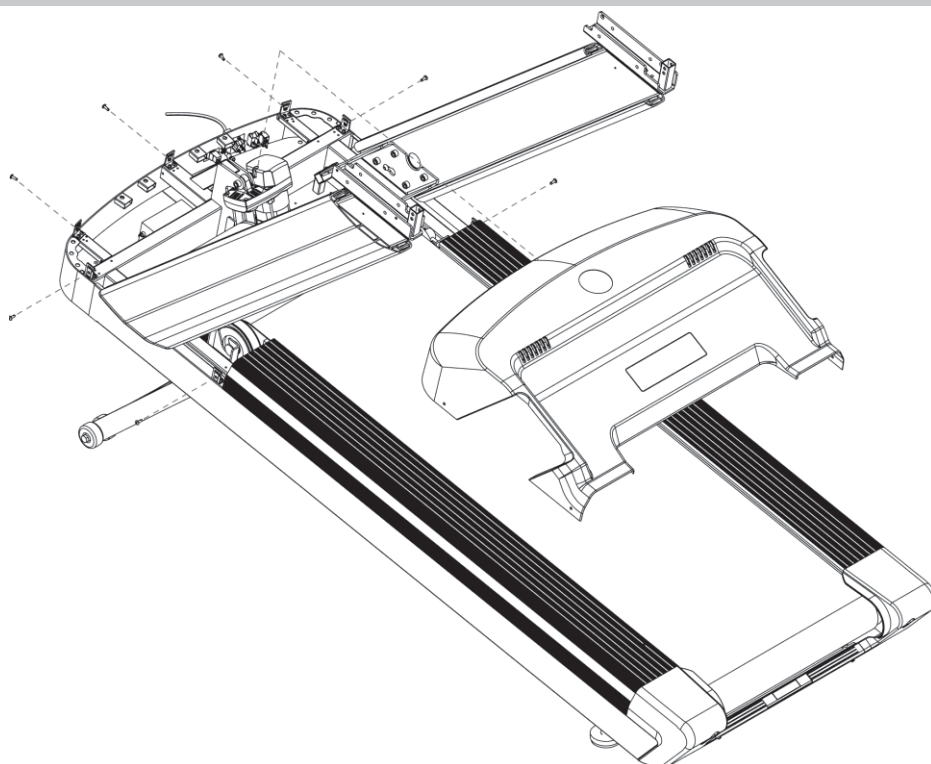
9. Replacement of motor drive belt

STEP 1



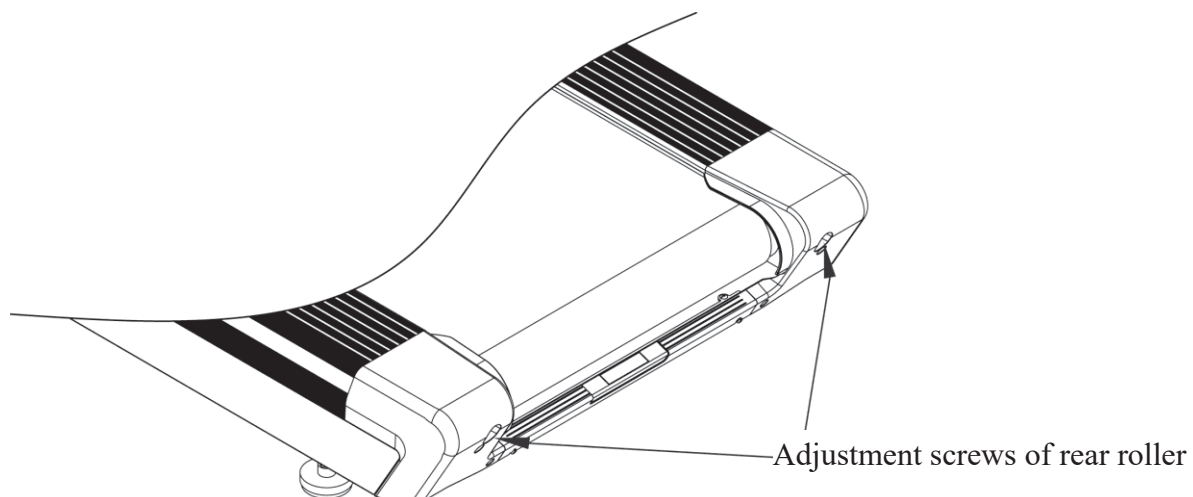
First, adjust the machine incline to the highest position, and turn power off to keep the machine at the maximum lifting angle.

STEP 2



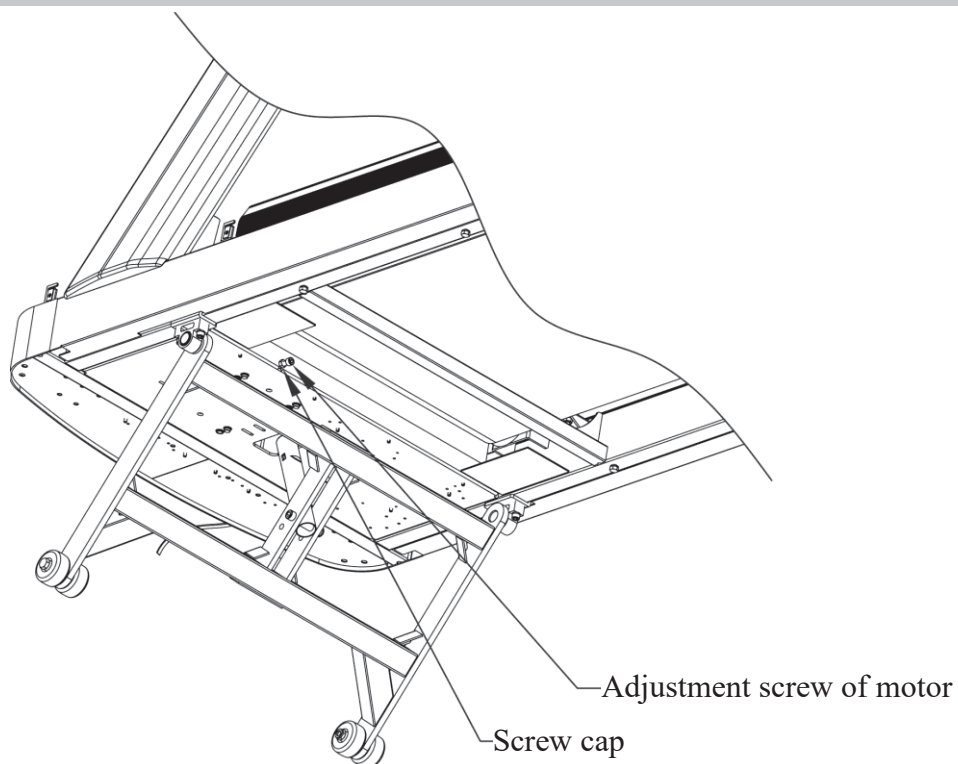
Loosen the fixing screws of motor cover, and take motor cover apart.

STEP 3



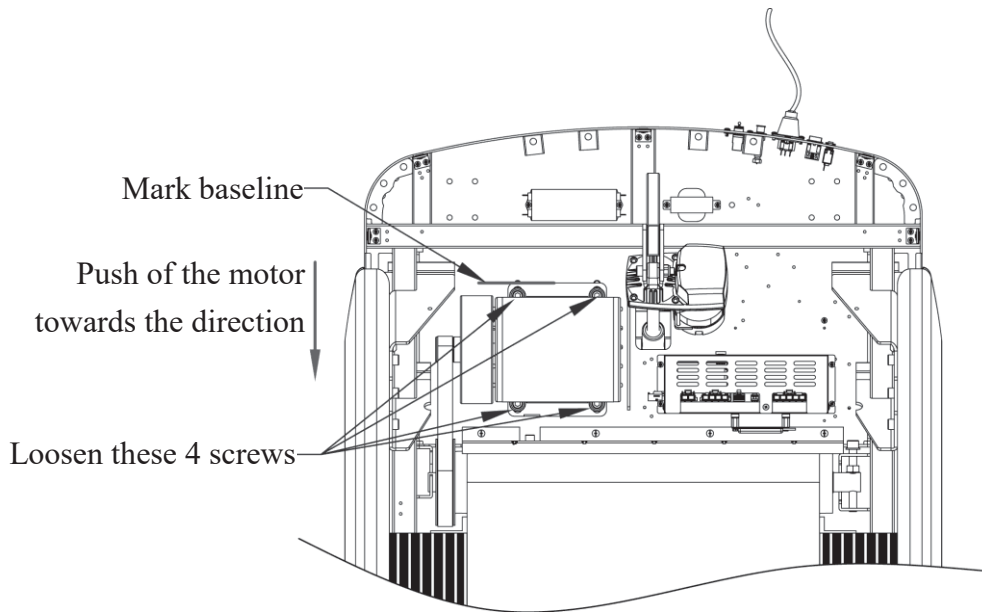
Loosen the adjustment screws of rear roller for about 4 ~ 5 laps.

STEP 4



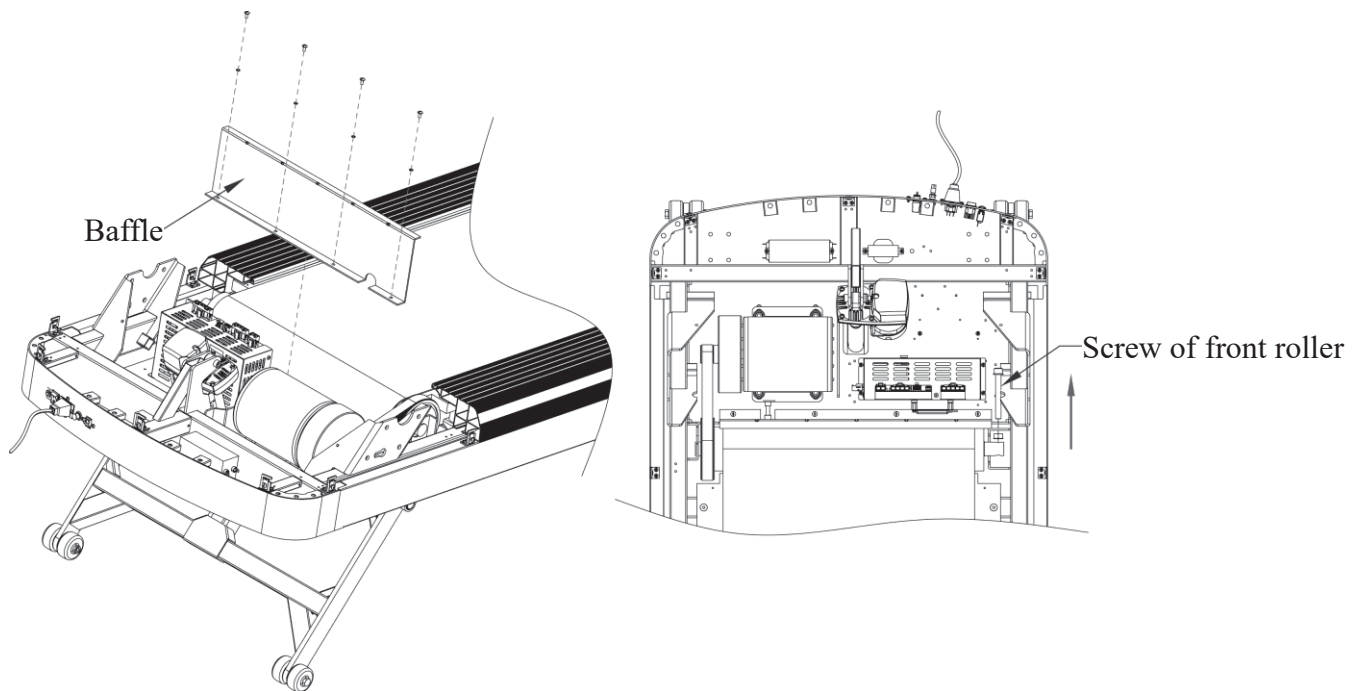
First, loosen the screw cap, and loosen the adjustment screws of motor for about 4 ~ 5 laps.

STEP 5



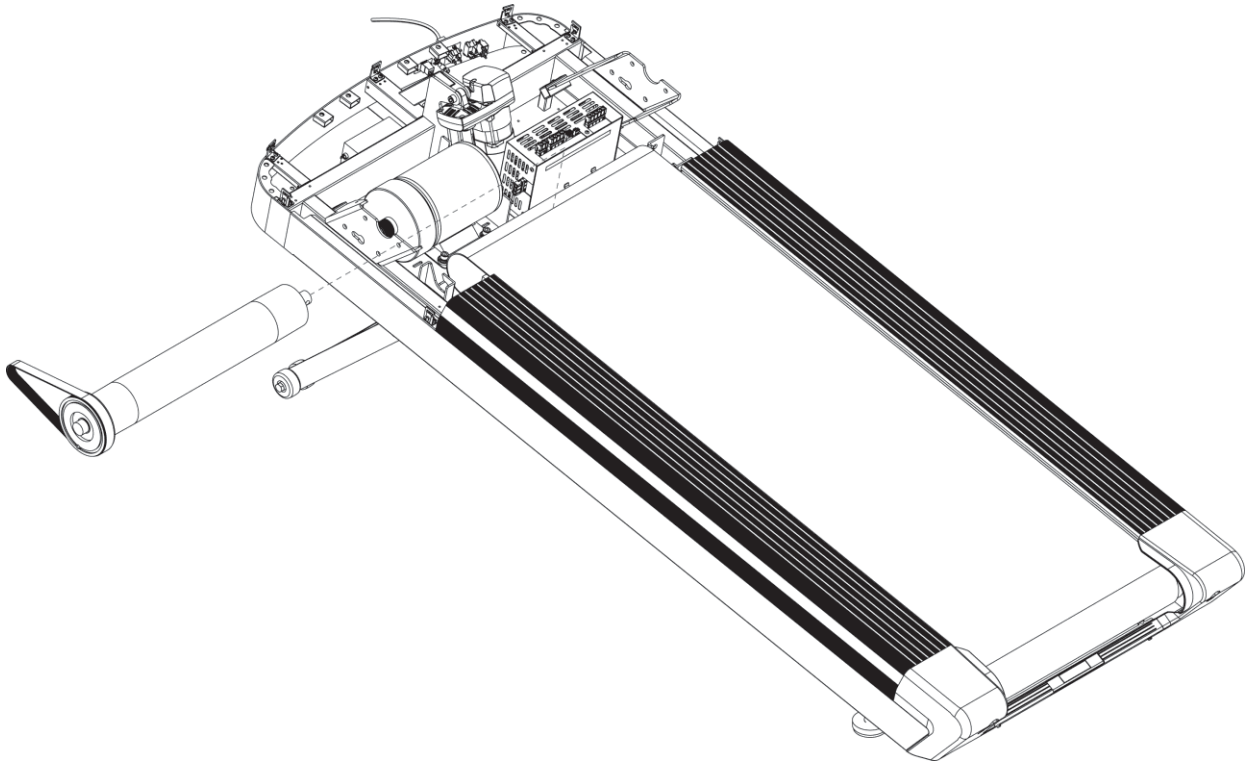
Mark a baseline for motor adjustment, then unscrew 4 bolts that lock motor .Push the motor toward running belt and let the motor driving belt to come off.

STEP 6



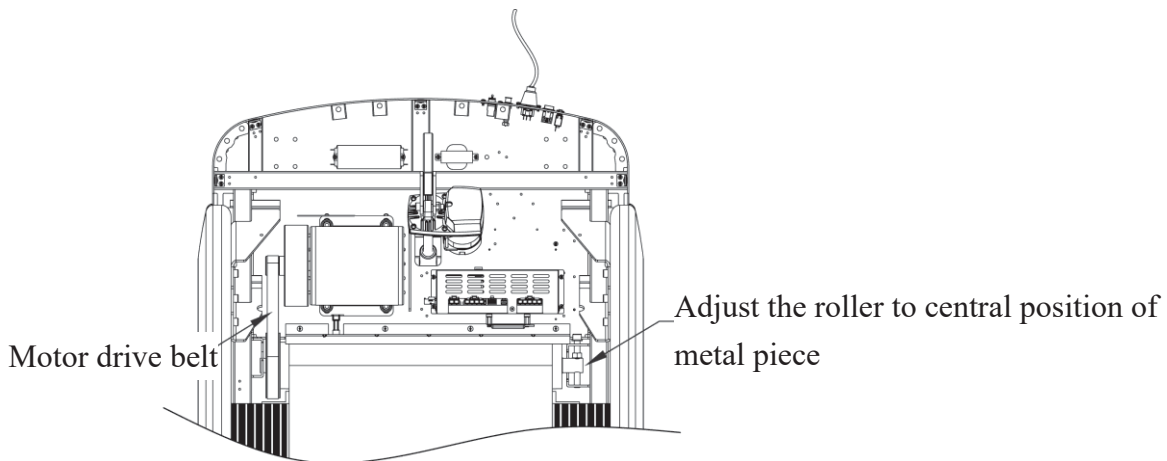
Loosen the fixing screws of front roller with the arrow direction. And loose the baffle screws to take the baffle down.

STEP 7



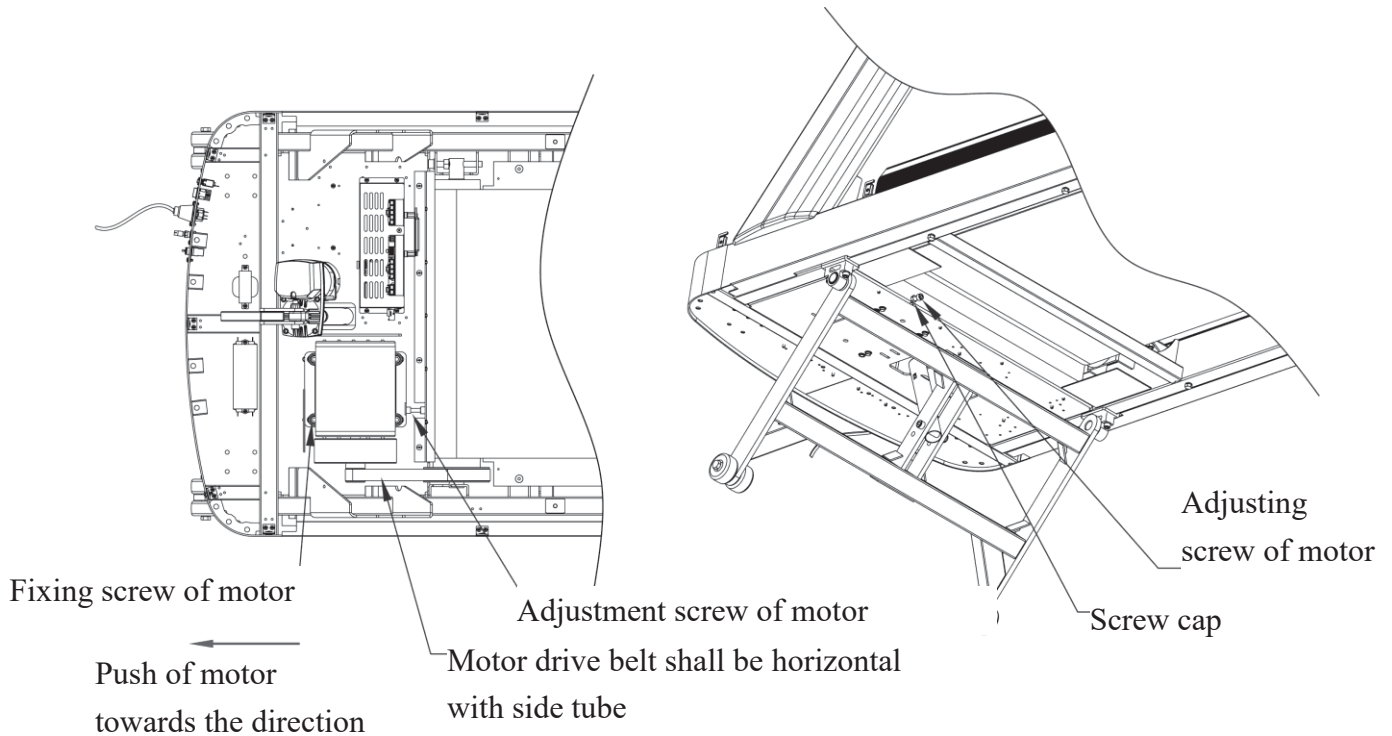
Remove the front roller and the motor driving belt. Attention: shaft and axle can't collide with other parts of treadmill as this a protection for bearing.

STEP 8



Bolt on the front roller fixing screws and baffle, and adjust the roller shaft to the position of the centre of the metal piece. Make the motor drive belt hook the motor belt pulley, and adjust the belt position to be horizon with the side tube of frame.

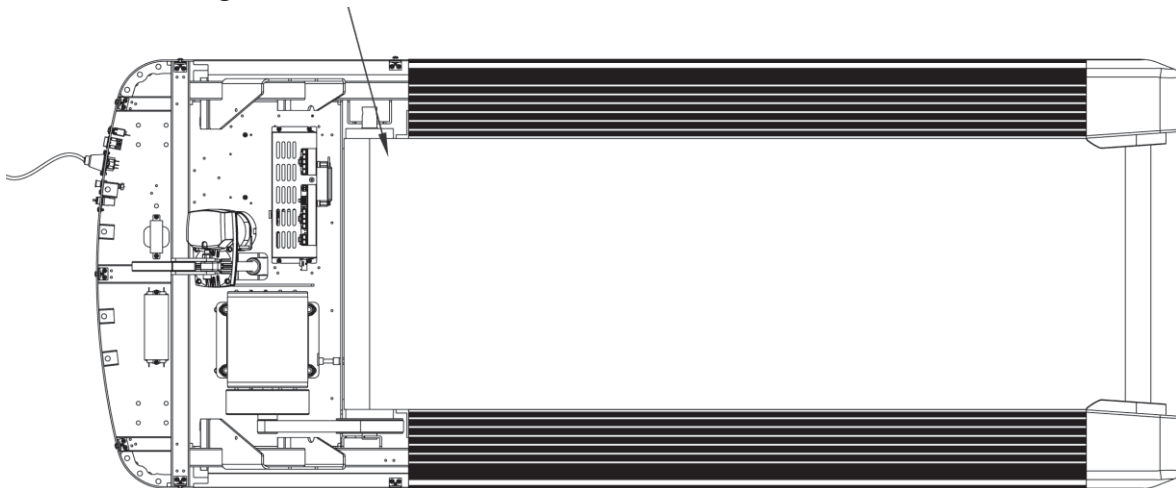
STEP 9



Push the motor to the line marked earlier and tighten nut. At last, tighten the 4 bolts to 250kgf/cm(use torque wrench).

STEP 10

Placement of running belt to center



Tighten the fixing screws of running board and the adjust screws of rear roller. Move the running belt to about central position of frame (as shown in diagram). Then, tighten the cap, and put the rest of parts back according to the order opposite to that of previous dismounting. After taking out the support, please adjust running belt by reference of the instructions.