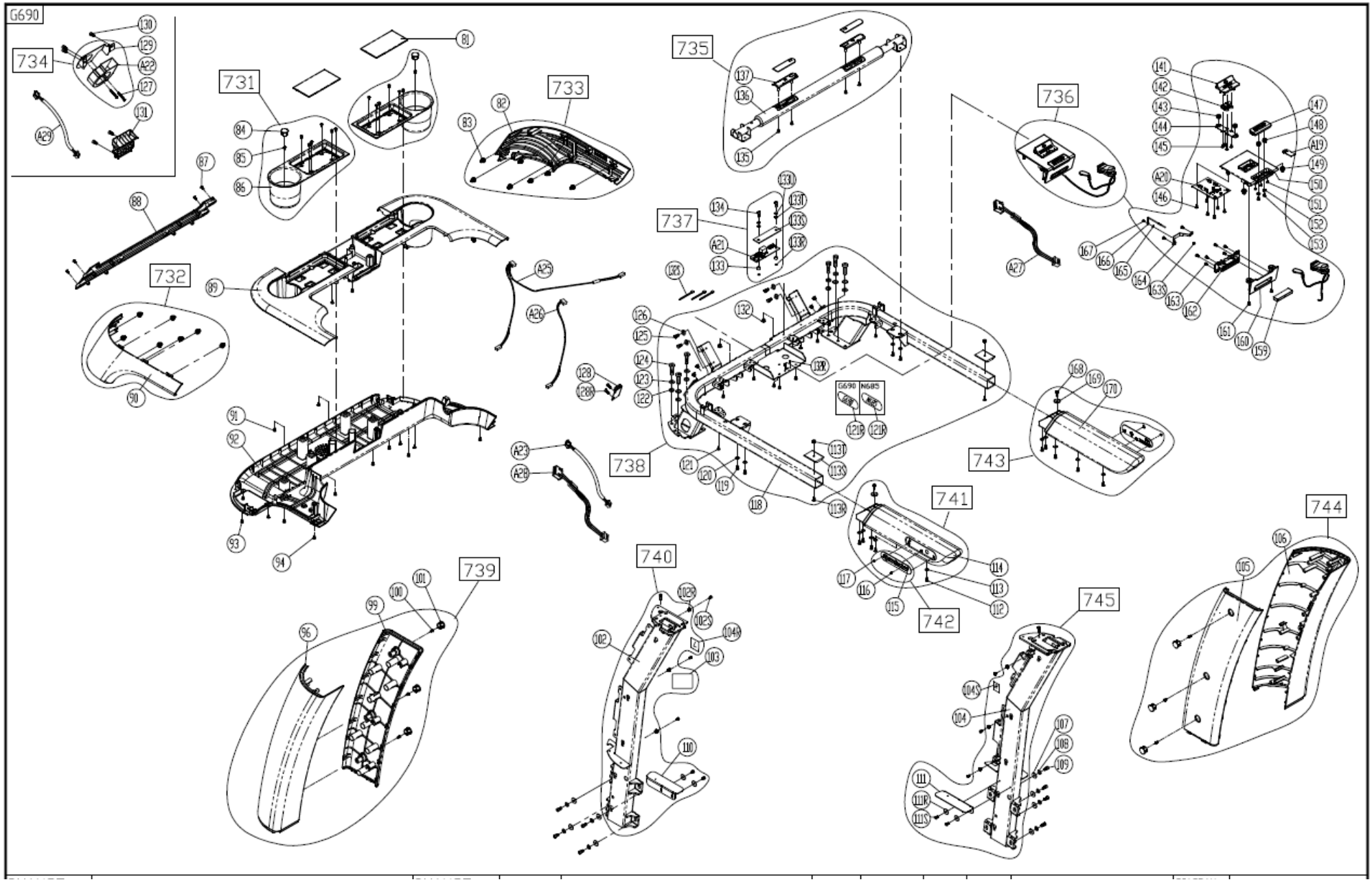
# N865/G690 Service Manual (Mechanism Category)

# 1. Exploded View Diagram for Use in Business




M1-1-1

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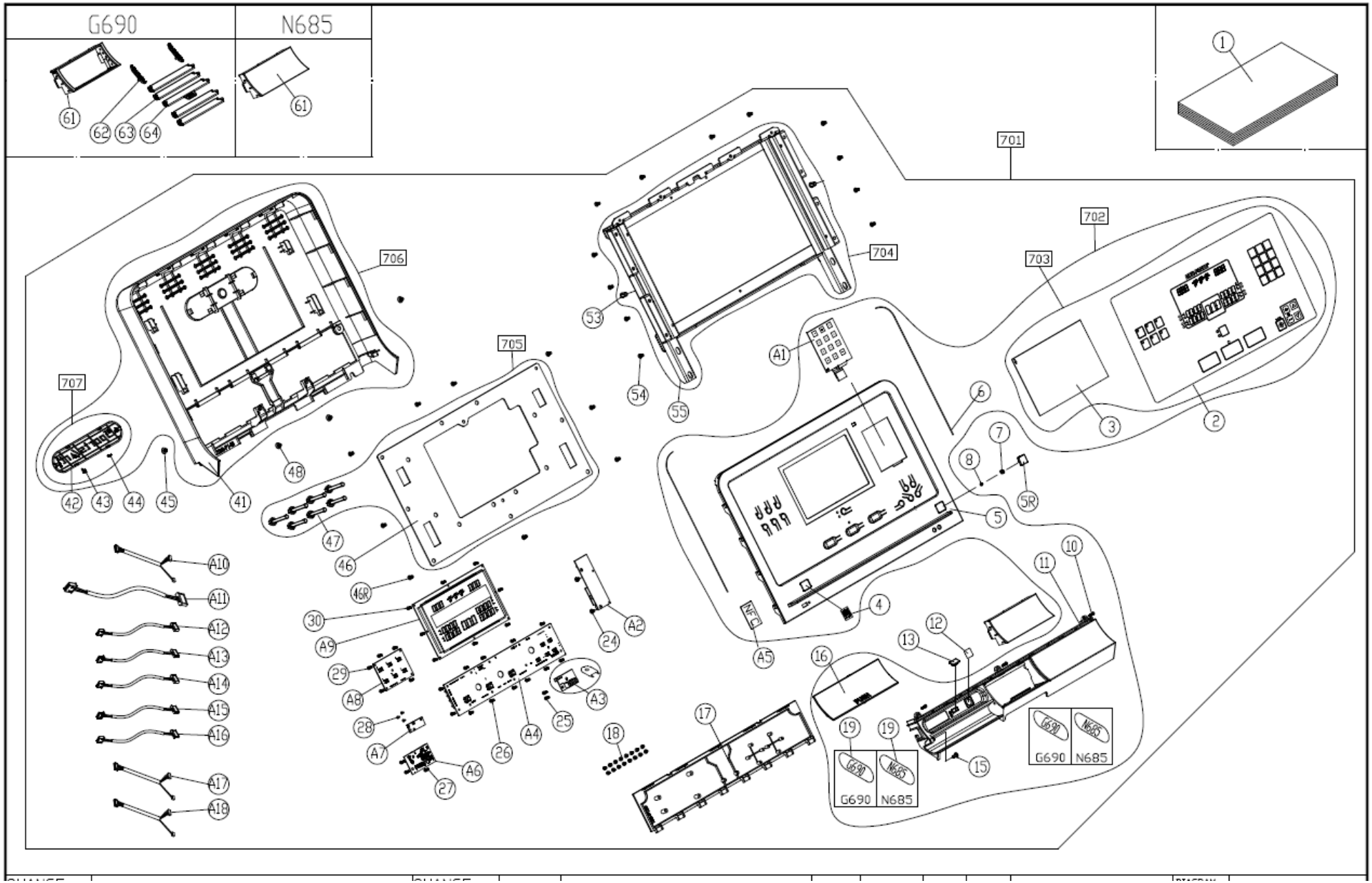

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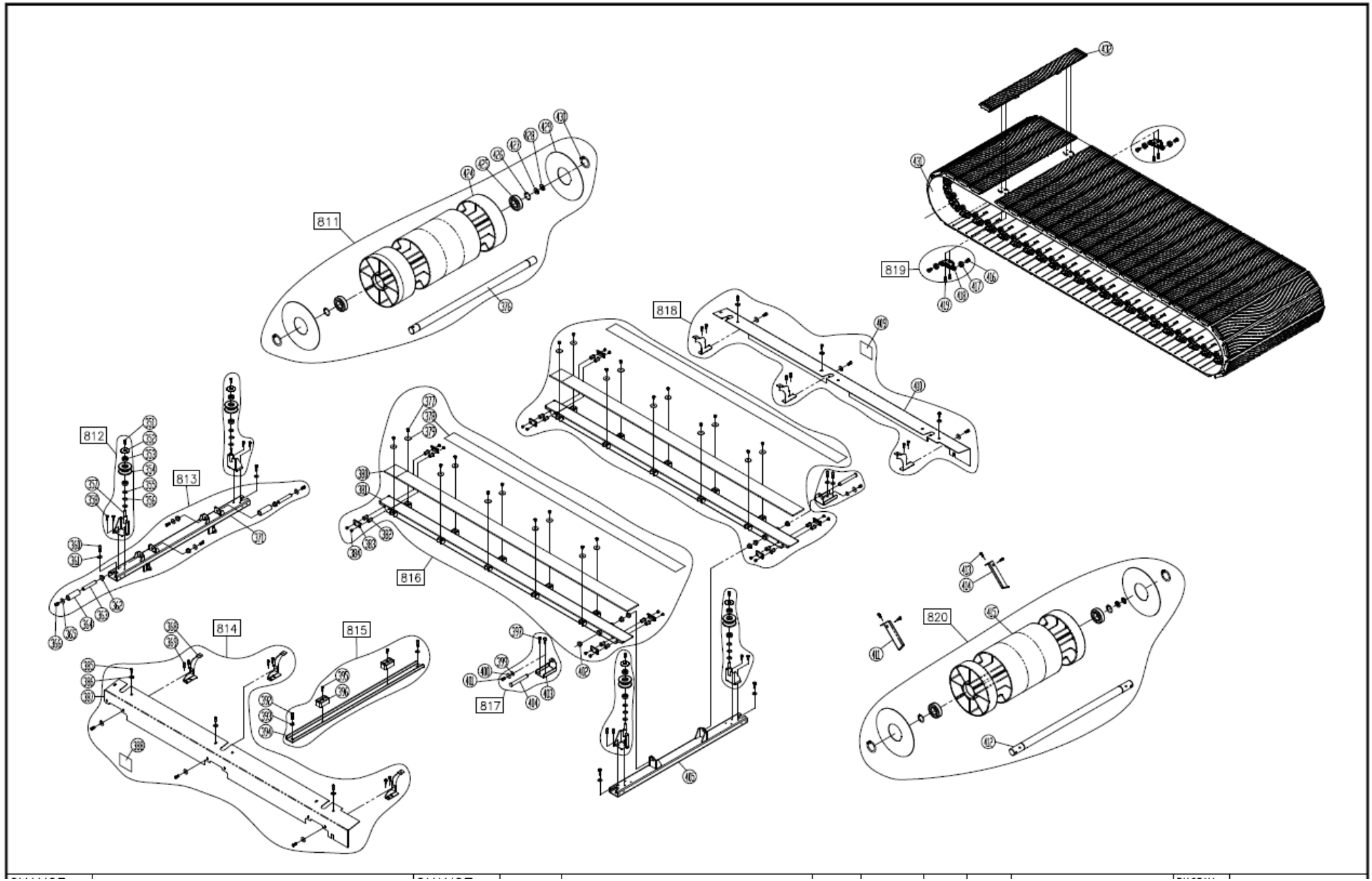

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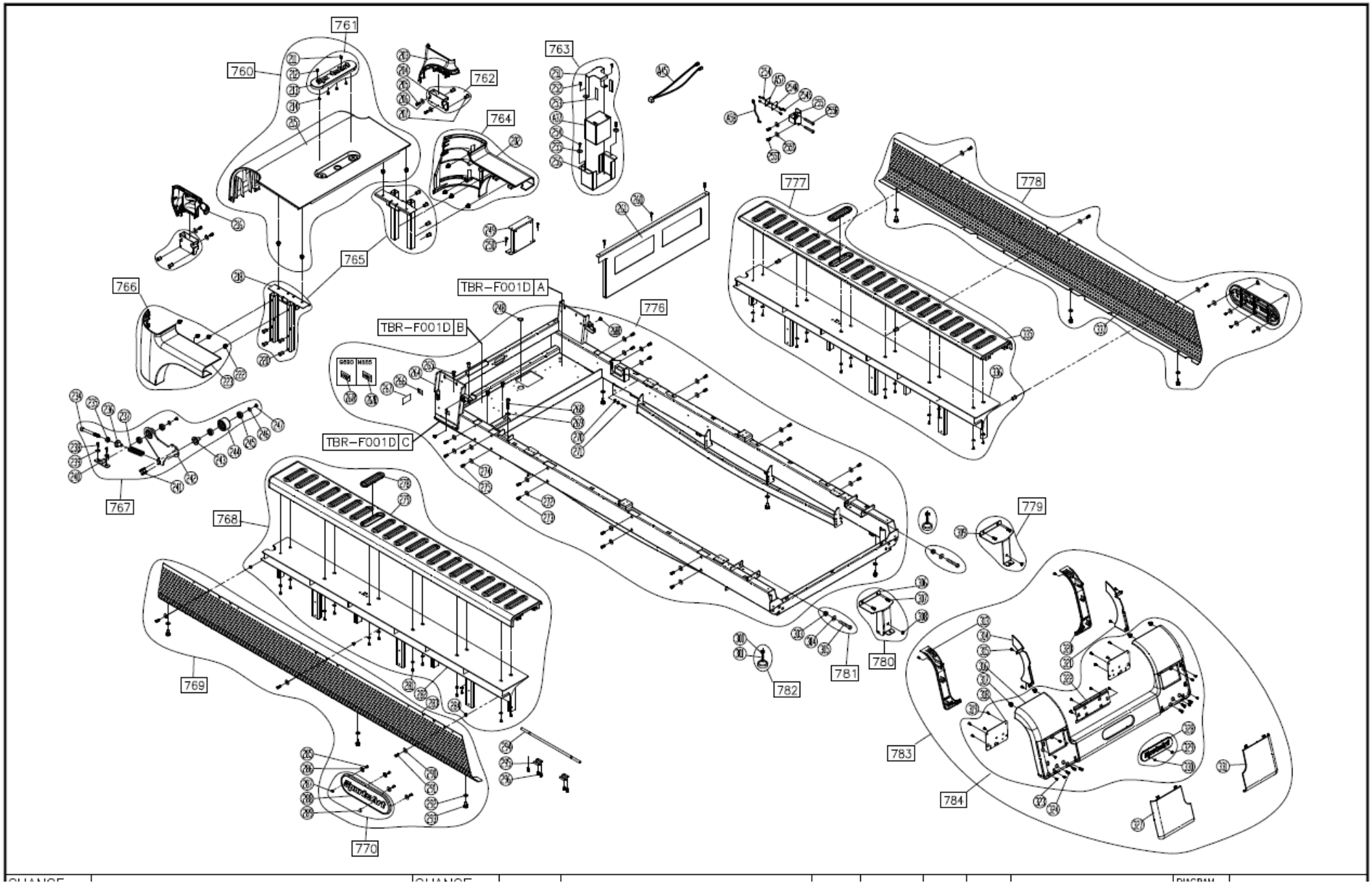

## 1-2.Introduction to Major Parts of the Machine

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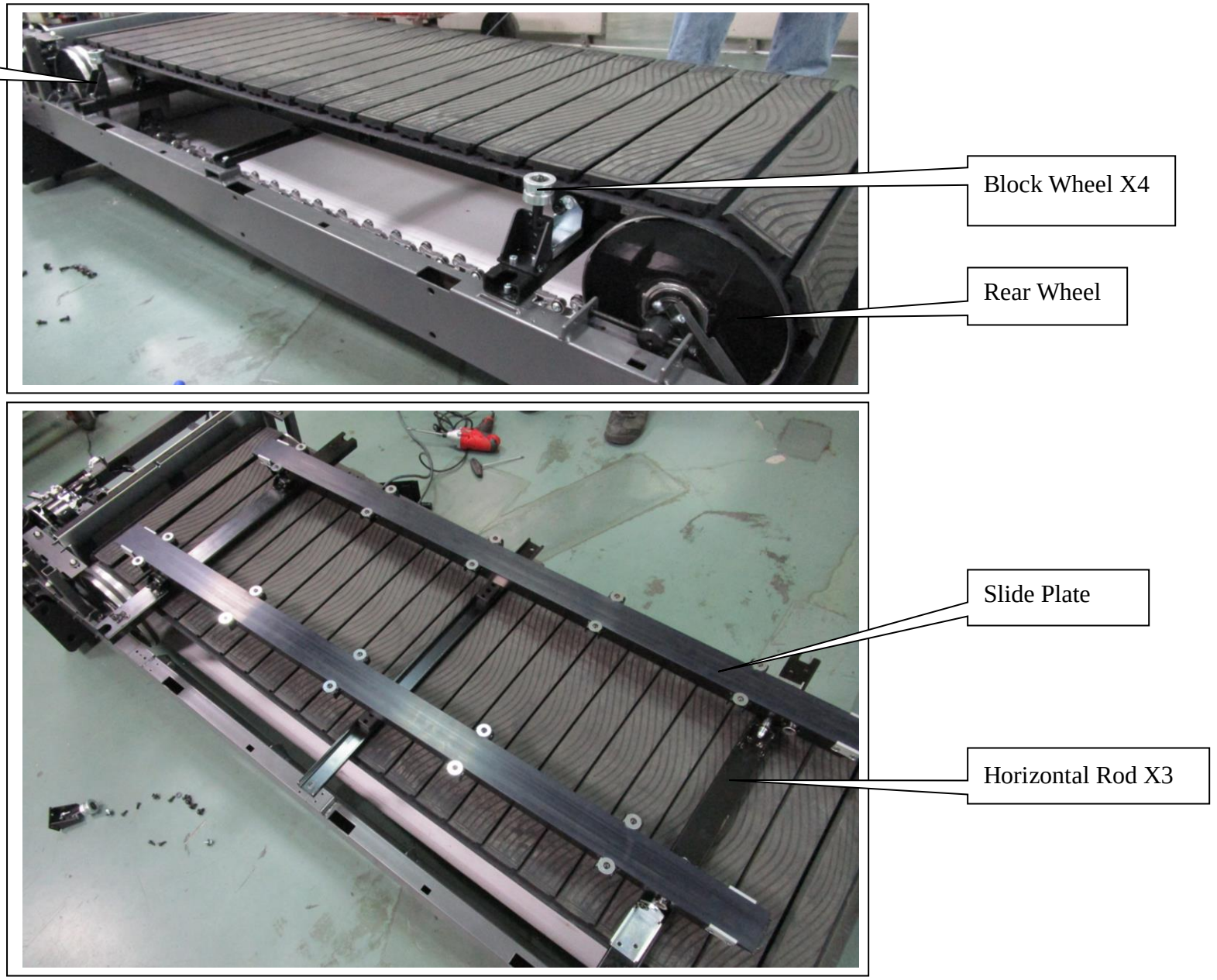


# Inspection & Maintenance

Item: Checklist.

| Sequence | Check Items | Check Contents | |
|---|---|---|---|
| 1. | Brake System | a. When you abort operations, the Jogging Belt will be very tight. | |
| | | b. When you press Start, the Jogging Belt will become smooth. | |
| | | c. Remove the safety-key, and the Jogging Belt will be very tight. | |
| | | d. When you abort operations, the Machine will be shut down automatically and the Jogging Belt will be very tight. | |
| 2. | Inspection of the Battery | 1. Battery Voltage | |
| 3. | Inspection of the Slope | 1.The Ideal Slope should be 7.0%. | |
| 4. | Inspection on the Tightness of the Jogging Belt and the Deviated Belt. | 1. Adjustment to the tightness of the Jogging Belt and the Deviated Belt. | |
| 5. | Inspection on the Smoothness and Abnormal Sounds of the Jogging Belt. | 1. When the Jogging Belt slides, check if the Jogging Belt is moving smoothly without any abnormal sound. | |
| 6. | Inspection of the Front Wheel and the Poly-Rib Belt. | 1. Check if the position of the Poly-Rib Belt is the middle of the idler wheel. | |
| | | 2. Tightness of the Poly-Rib Belt. The sound frequency should be between 125-135hz . | |
| 7. | Maintenance of the Internal Transmission System. | 1. Use the Dry Cloth to clean the Bearing in the Jogging Belt. | |
| | | 2. Use the Dry Cloth to clean the Surface of the Slide Plate. | |
| | | 3. Use the Dry Cloth to clean the Inner Layer Surface of the Jogging Belt. | |
| 8. | Cleaning and Maintenance of the Front and Rear Wheels. | Clean and Maintain the Front and Rear Wheels when the Jogging Belt is disassembled..<br>1. The Dust on the Surface of Rear Wheel before cleaning | |
| 9. | Cleaning of the Plastic Outer Cover | 1. Dampen the cloth and wring out excess water. Then, use the Cloth to clean the Plastic Outer Cover. | |
| 10. | | | |

## Inspection & Maintenance

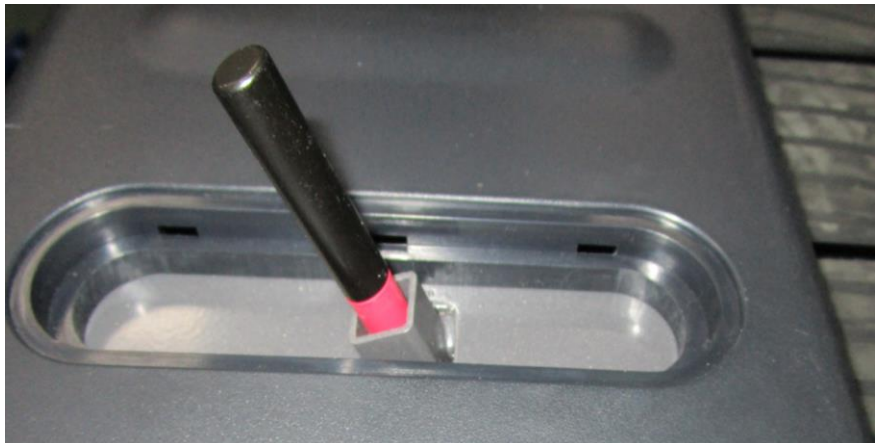
Item: Fine-tuning of the Tightness of the Jogging Belt and the Deviated Belt.

## Inspection & Maintenance

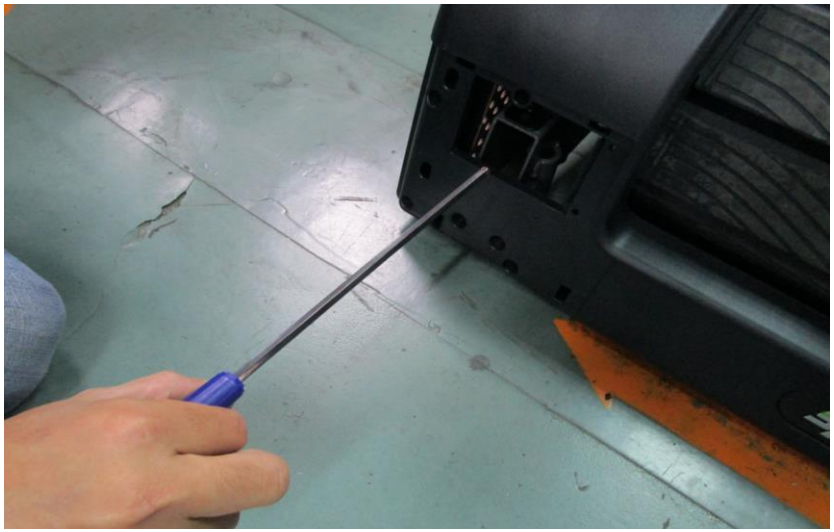
Item: Fine-tuning of the Tightness of the Jogging Belt and the Deviated Belt

Step1. As shown below, gently insert the Test Rod into the tightness testing port.

Step2. Insert the Test Rod into the tightness testing port, as shown below.



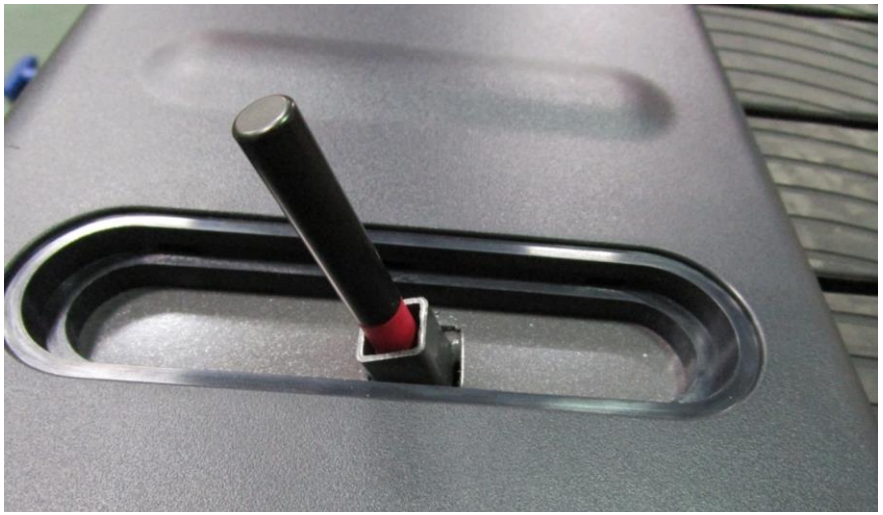
Step 3. Adjust the Rear Wheel Screw, so that Half of the Red Part of the Test Rod is exposed.
Clockwise → tightening  Counter-Clockwise → loosening



Step4. Half of the Red Part of the Test Rod is exposed.

Step5. During adjustment, please set the Machine speed at around 6kph. Hold the Handles with both hands. Run on the Machine to make the Belt move. Adjust the Rear Wheel Screw on the Right Side, so that the Jogging Belt is right in the middle.
Clockwise → moving towards the left
Counter-Clockwise → moving towards the right


Step6. Again, insert the Test Rod in the Test Hole to test if the right tightness is in place. If not, adjust the tightness again (see Step3).

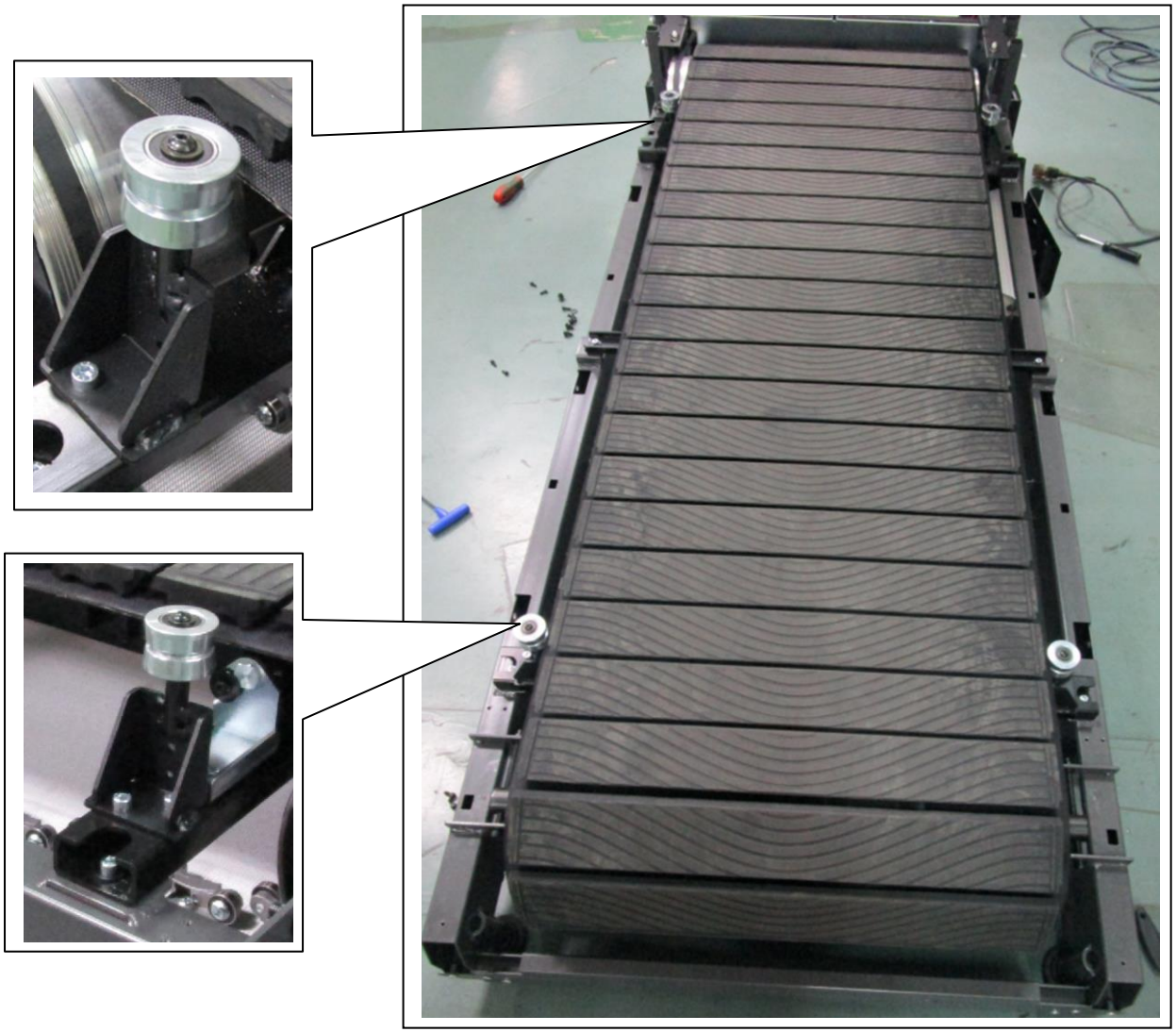


## Inspection & Maintenance

Item: Inspection of the Block Wheel.

Method: 1. Check the Surface of the Block Wheel.

2. Rotate the Block Wheel and check if the Bearing is moving smoothly.

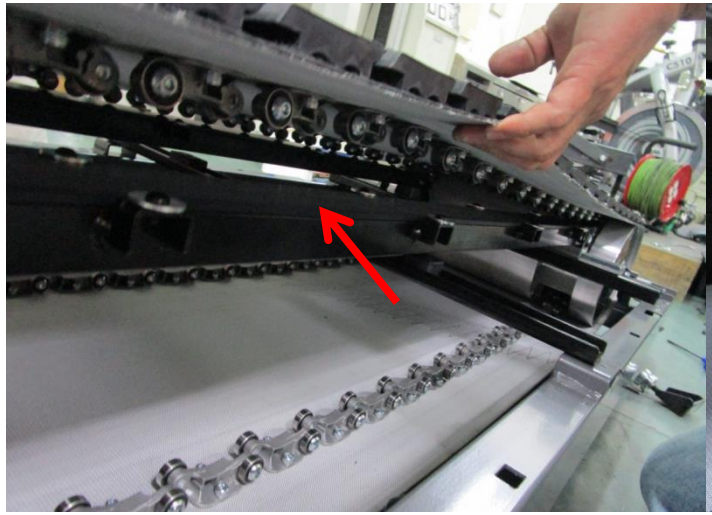


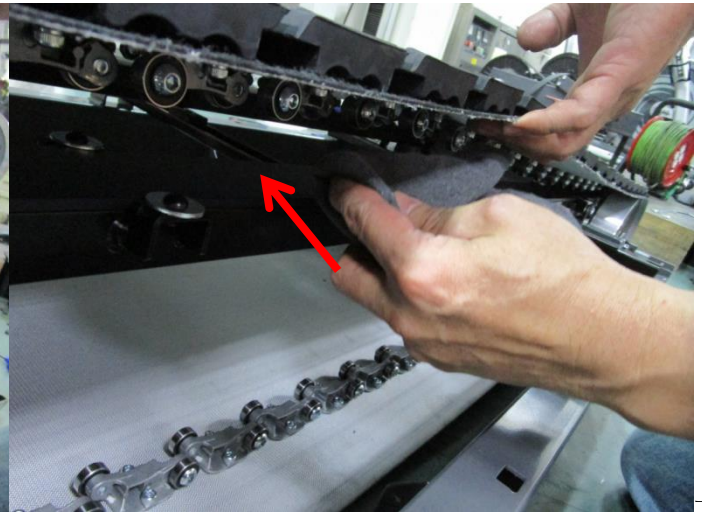
## Inspection & Maintenance

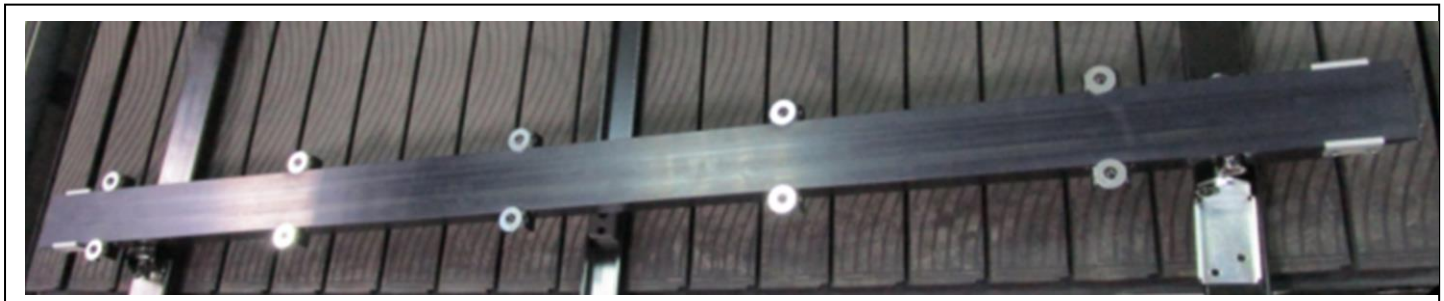
Item: Cleaning and Maintenance of the Slide Plate.

Method: 1. Use the Dry Cloth to clean the Surface of the Slide Rail as well as the Bearing of the Jogging Belt.

2. Also, clean out the dust and dirt on the bottom layer of the Jogging Belt.







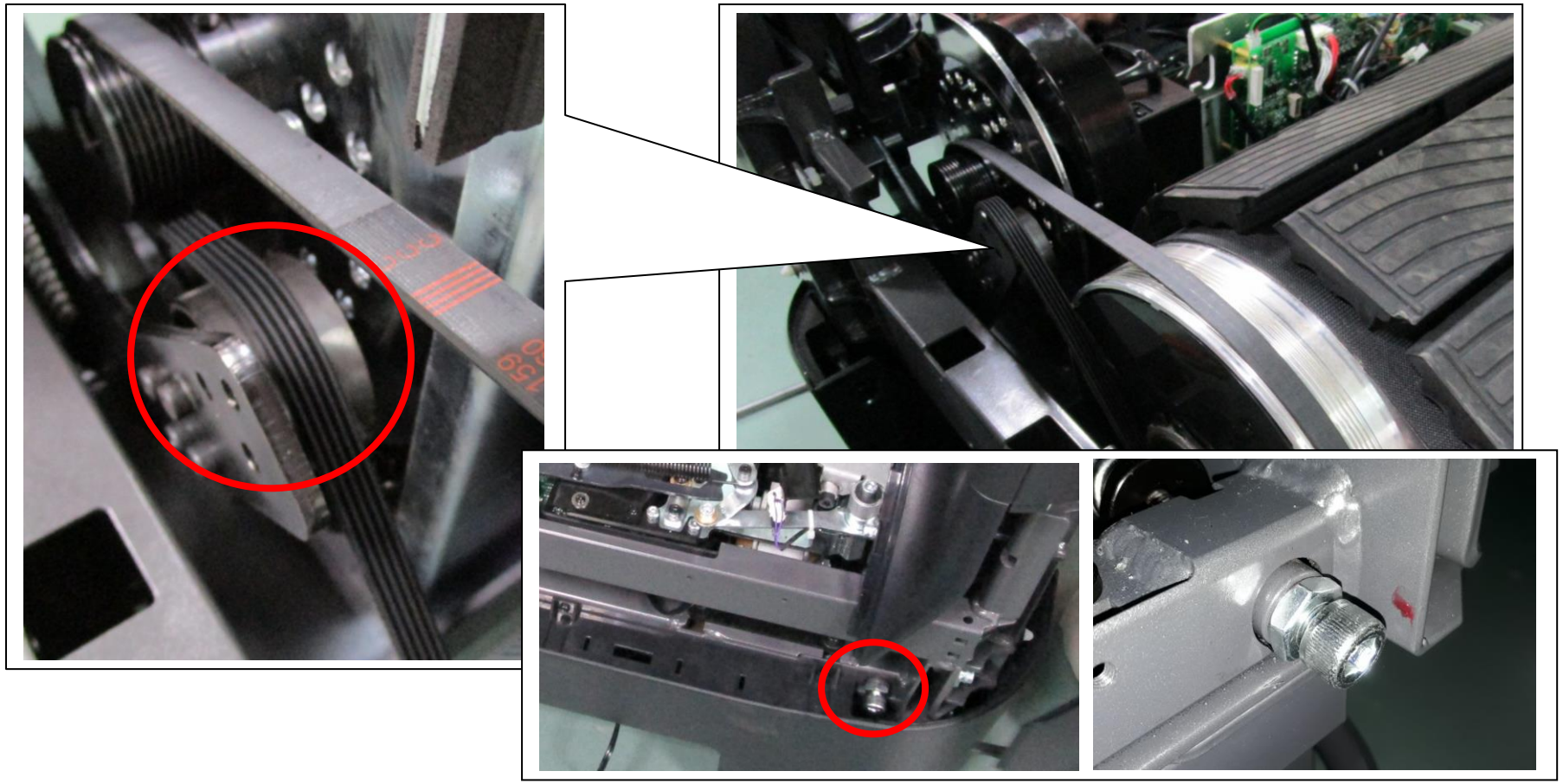
## Inspection & Maintenance

Item: adjustment to tightness of the Poly-Rib Belt and the Deviated Belt.

Method: 1. Please install the sound frequency app on your smartphone.

2. Adjust the Cast Steel Wheel, the Front Wheel and the Poly-Rib Belt depending on actual conditions, so that the Poly-Rib Belt is approximately in the middle of the idler wheel when it is rotated forward or backward.

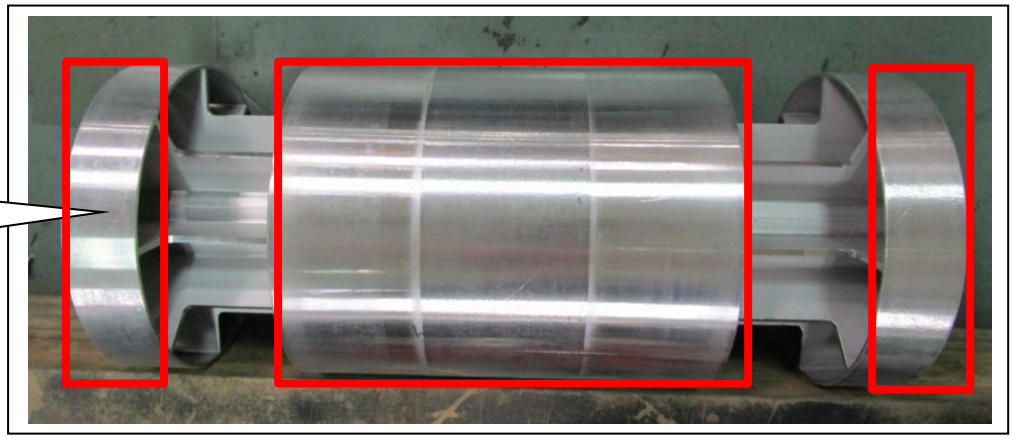
3. Flip the Belt and test the vibration frequency, which should be between 125-135hz;
If the frequency of the new Poly-Rib Belt is not within the specified range,
you may fine-tune the screw to control the tightness of the Poly-Rib Belt as shown below.

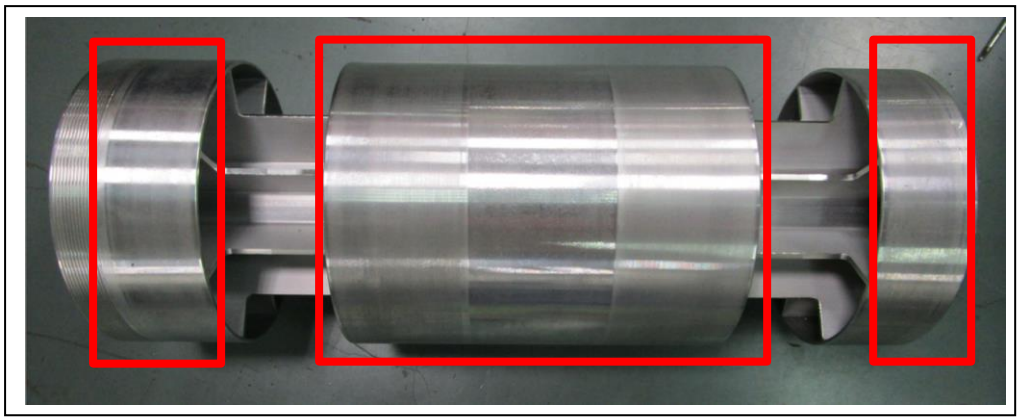


## Inspection & Maintenance

Item: Cleaning and Maintenance of the Front and Rear Wheels.
Timing of Maintenance: When the Jogging Belt is disassembled.
Method: 1. Use the clean cloth to clean out the dust on the surface.

Dust on the Surface of the Rear Wheel before it is cleaned away by the Dry Cloth.

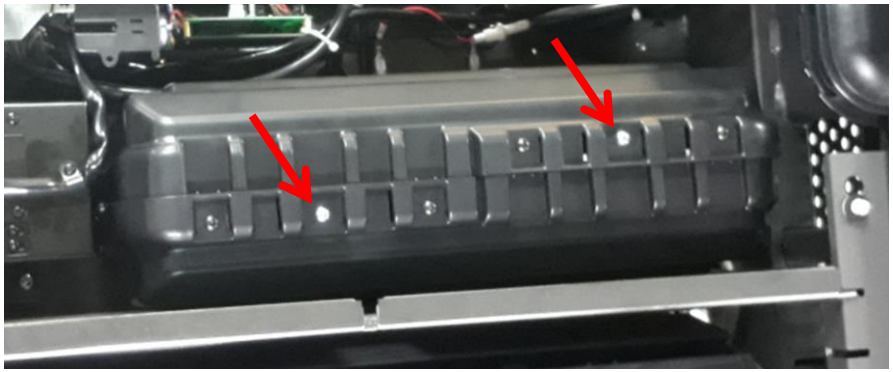




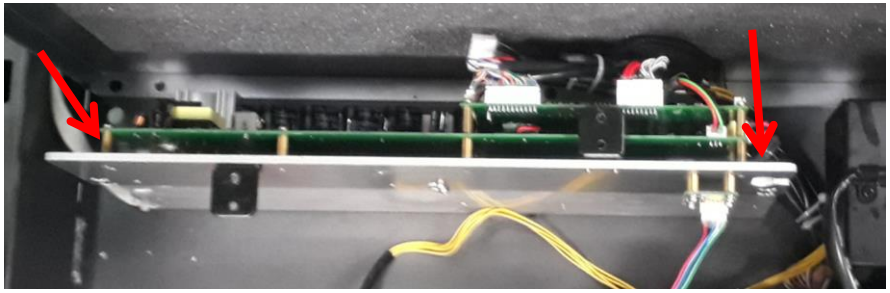
# Parts Disassembly and Replacement

Item: N685 Disassembly of the Driver Set.

Step1. As shown below, disassemble the screw x2 and take out the protective cover of the Driver Board.



Step2. As shown below, take out the Driver Heatsink Screw x2.



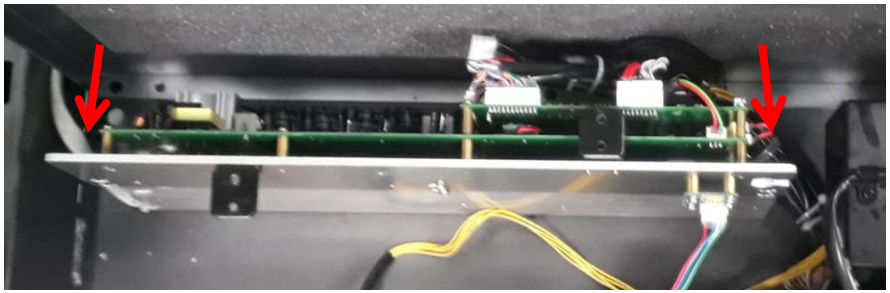
Step3. Remove all wiring of the Driver.

## Parts Disassembly and Assembly

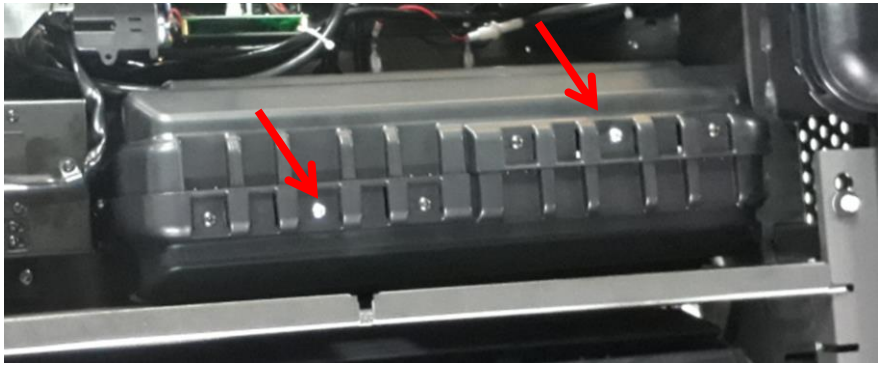
Item: N685 Assembly of the Driver Set.

Step1. Connect all wiring of the Driver.

Step2. Lock the screw to the hole.



Step3. Lock up the protective cover of the Driver.

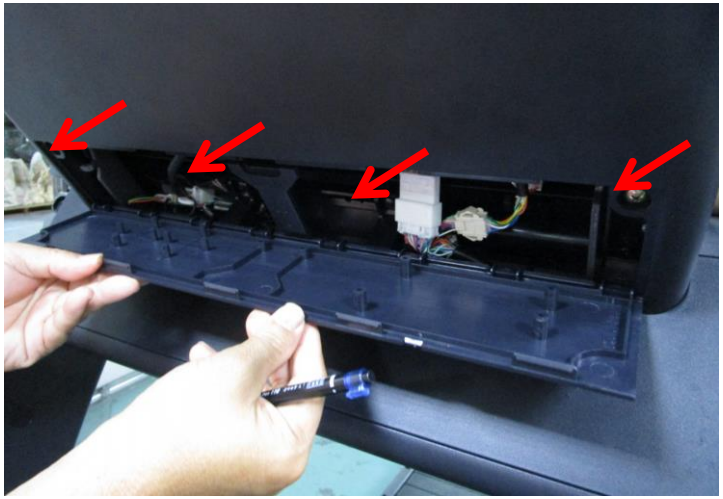


# Parts Disassembly and Dismantling

Item: N685 Disassembly of the Rear Cover of the Electronic Meter.

Step1. Use the Slotted Screwdriver to open the protective cover and take it out.


Step2. Disassemble the Rear Cover Screw of the Electronic Meter x4.



Step3. Push the Rear Cover of the Electronic Meter in the upward direction.

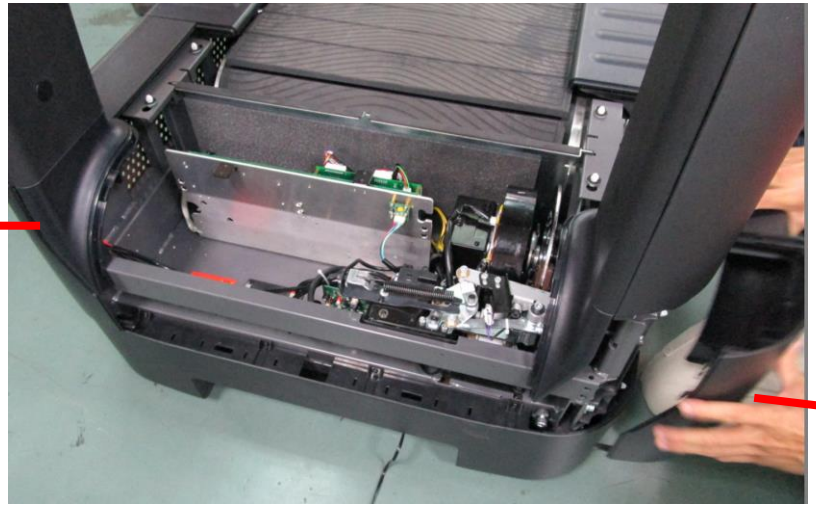

Step4. Take out the Rear Cover, as shown below.

# Parts Disassembly and Assembly

Item: Replacement of the Jogging Belt.

Step1. Pull in the direction of the arrow to take out the motor cover.

Step2. Take out the side cover of the motor on the left side and the right side.



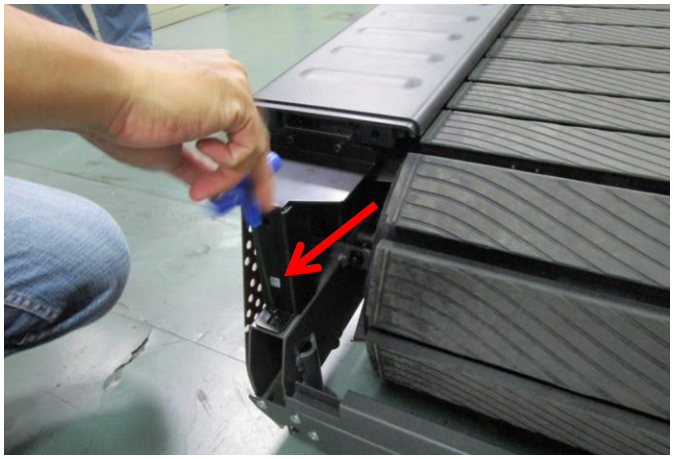
Step3. Take out the Rear Cover on the left side and the right side.

Step4.Take out the rear-end protective cover group.

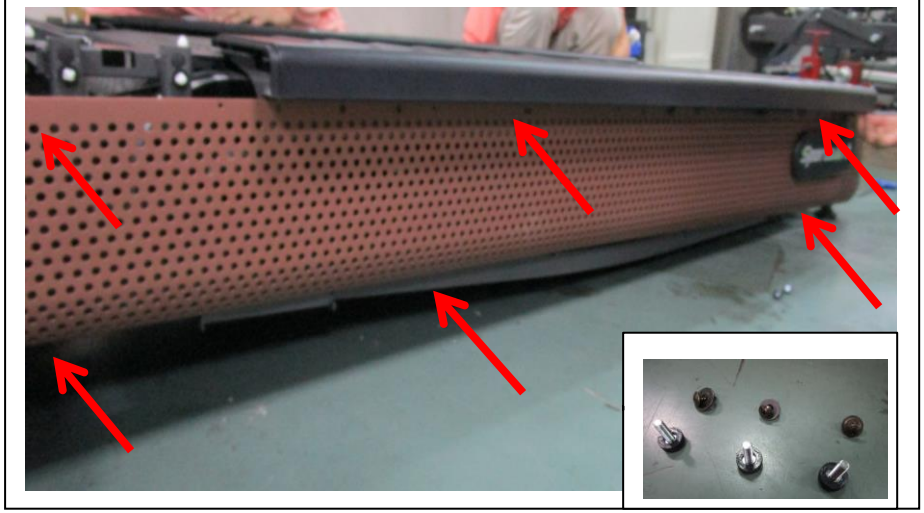
## Parts Disassembly and Assembly

Item: Replacement of the Jogging Belt.

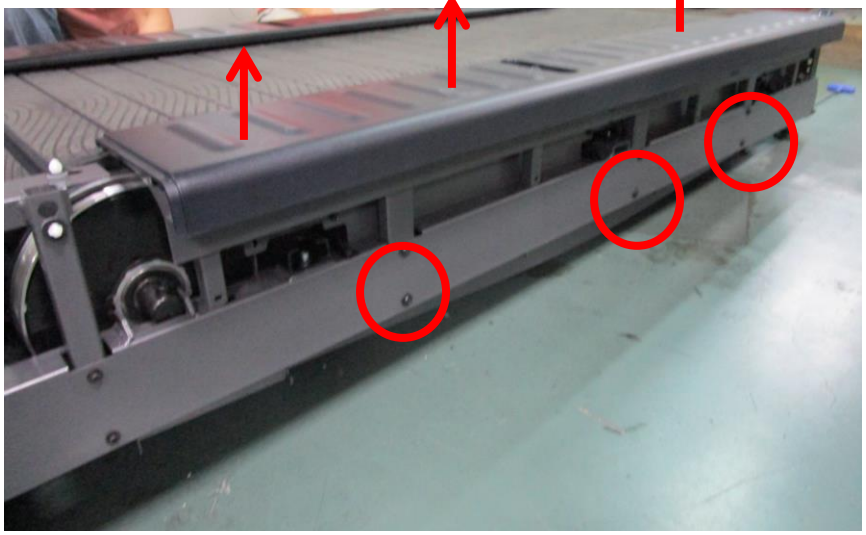
Step5. Disassemble the Rear Screw of the Foot Plate on the left side and the right side x1.



Step6. Take out the Side Cover Plate of the Motor.



Step7. Disassemble the screw, as shown below.

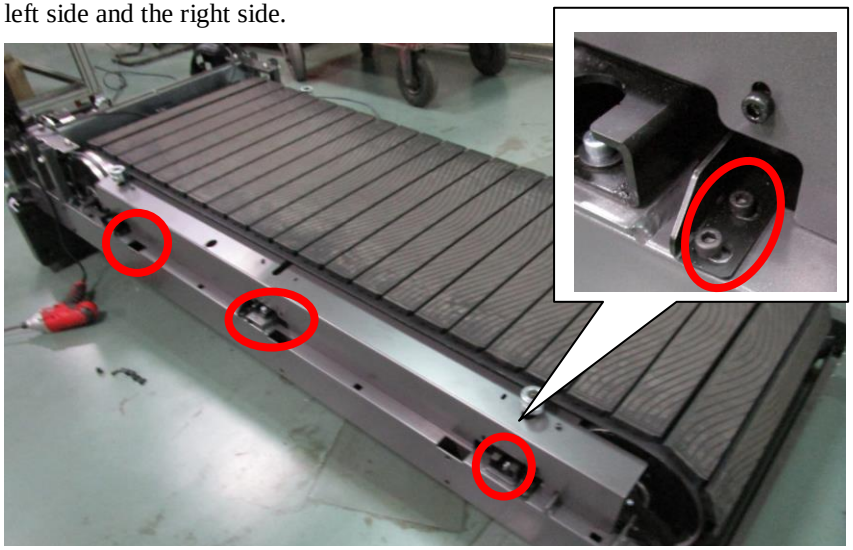


Step8. Take out the Foot Plate on the left side and the right side, as shown below.

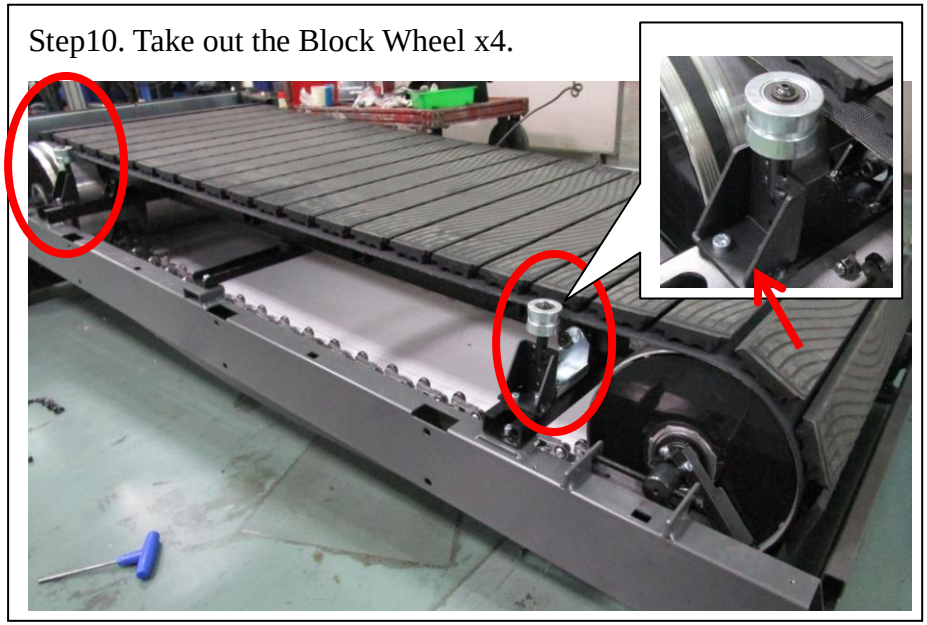
## Parts Disassembly and Assembly

Item: Replacement of the Jogging Belt.

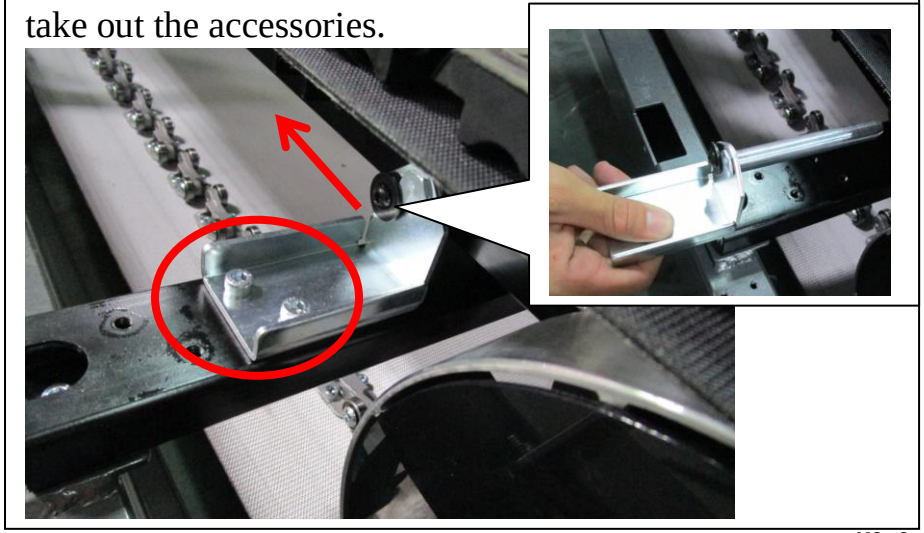
Step9. Disassemble the screw as shown below, and take out the Side Plate on the left side and the right side.



Step10. Take out the Block Wheel x4.



Step11. As shown below, disassemble the screwx2; and take out the accessories.



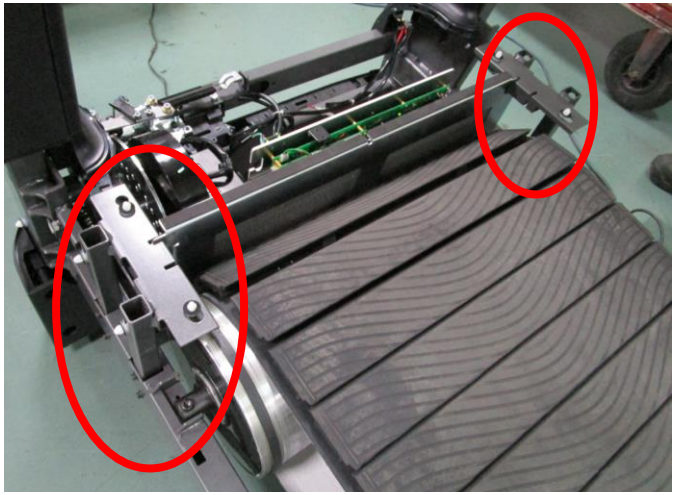
Step12. Take out the Slide Plate on the left side and the right side.

## Parts Disassembly and Assembly

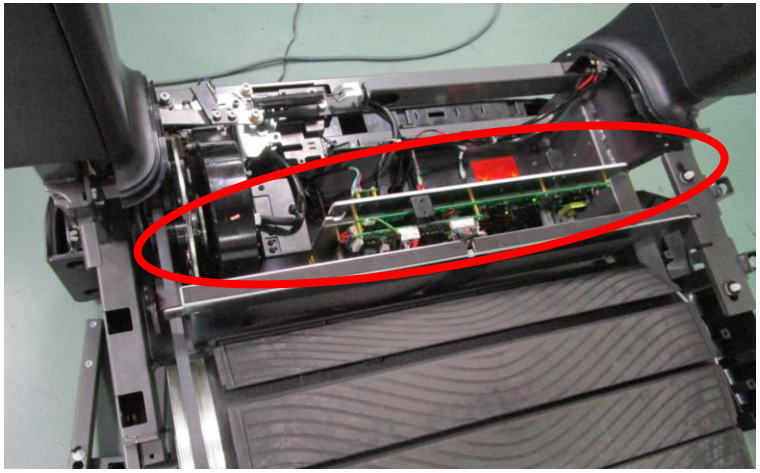
Item: Replacement of the Jogging Belt.

Step13. As shown below, disassemble the 3 Horizontal Rods.

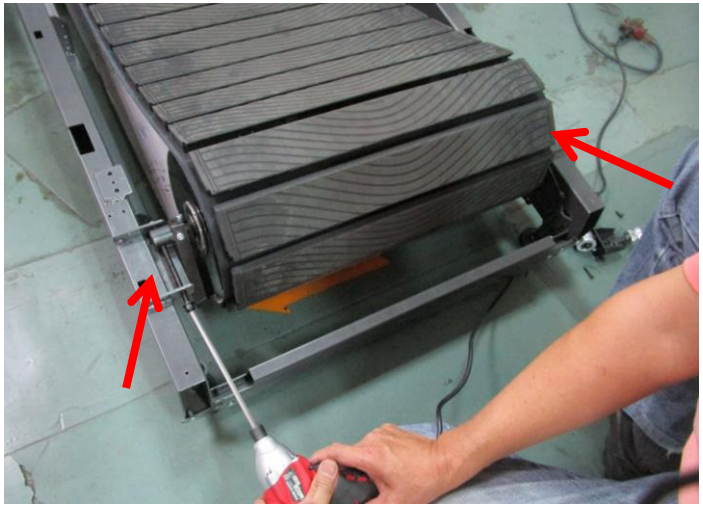
Step14. Disassemble the parts, as shown below.



Step15. Disassemble the Screw of the Anti-Dust Set; and take out the Anti-Dust Set.

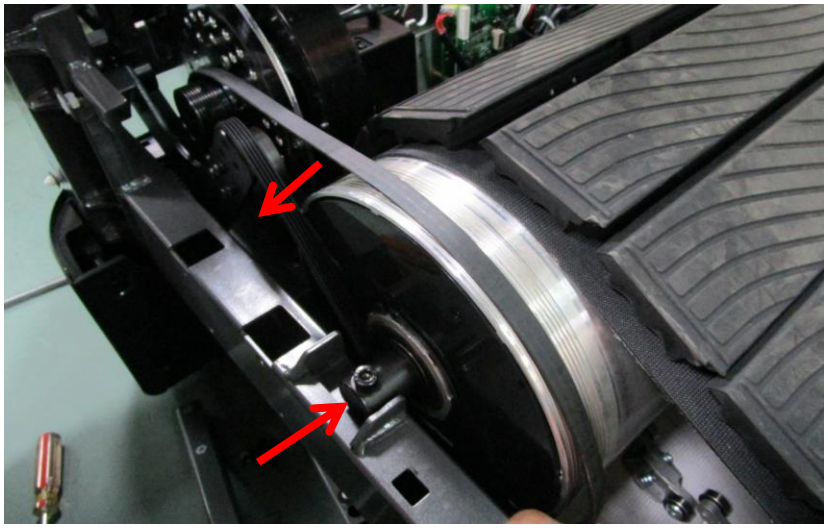


Step16. Disassemble the Screw of the Rear Wheel.

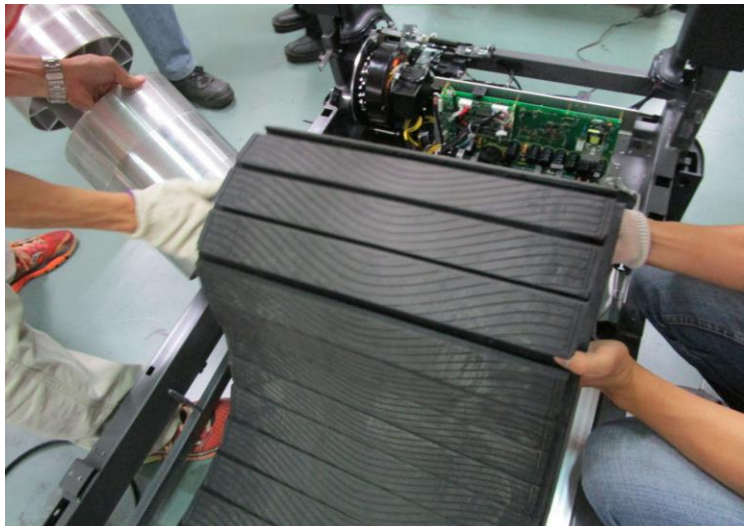


Step17. Loosen the Screw of the Rear Wheel and take out the Rear Wheel.

Step18.Take out the Poly-Rib Belt and the Front Wheel screw x1.



Step19. Take out the Front Wheel to complete the process.



## Parts Disassembly and Assembly

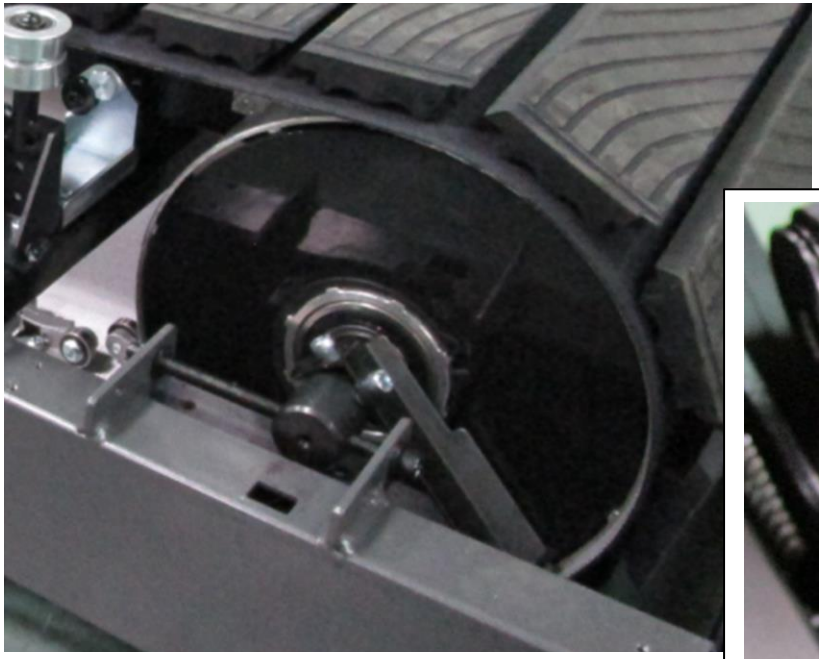
During Assembly, you may follow the reversed sequence of disassembly for re-assembly.

Relevant Parts that may need adjustment:

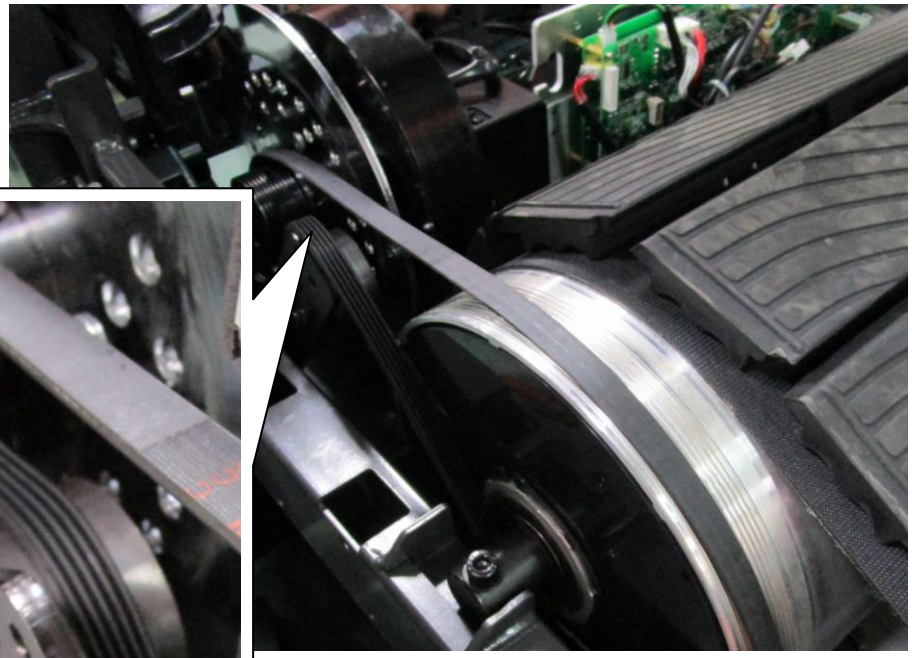
1. Position and tightness of the Poly-Rib Belt.
2. Position and tightness of the Jogging Belt.

Reference photos are shown as follows:

The Screw of the Rear Wheel is locked in place, as shown below.



The Poly-Rib Belt is adjusted to the middle of the idler wheel. The tightness should be measured by the sound frequency meter and should be between 125-135HZ.

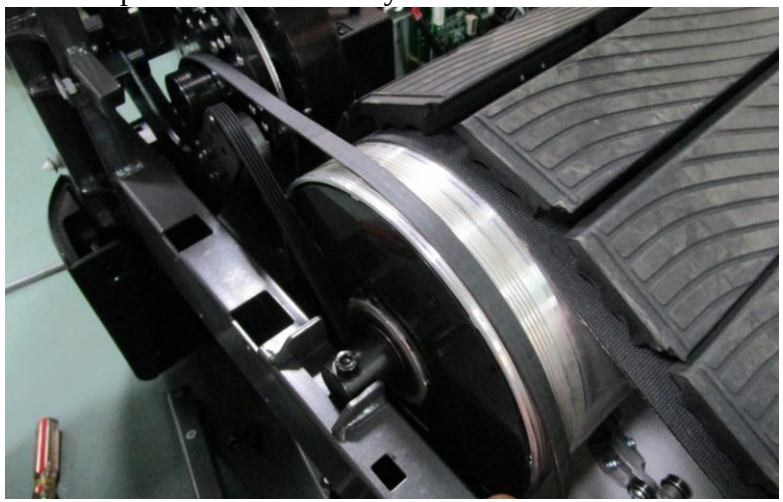


# Parts Disassembly and Assembly

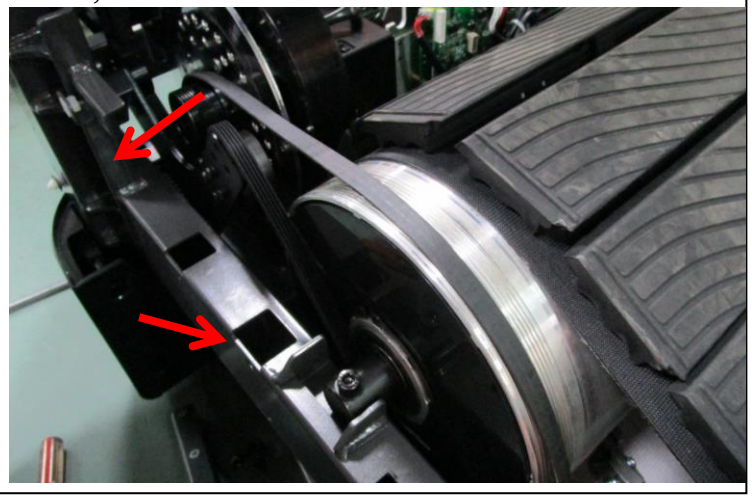
Machine Type: N685/G690

Item: Replacement of the Poly-Rib Belt.

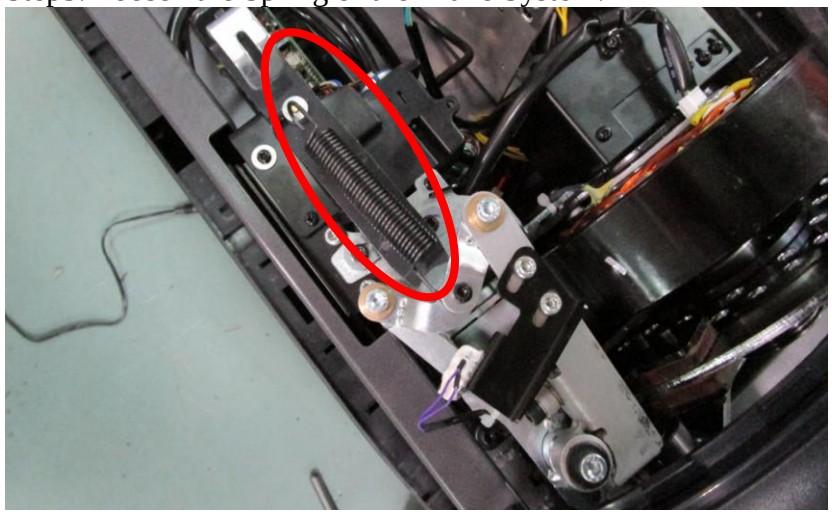
Step1. As shown below, disassemble all accessories of the Machine before replacement of the Poly-Rib Belt.



Step2. As shown below, disassemble the Screw of the Front Wheel, and take out the Belt.



Step3. Loosen the Spring of the Brake System.



Step4. Loosen the Screw of the Front Wheel on the left side and the right side (in the Counter-Clockwise direction).

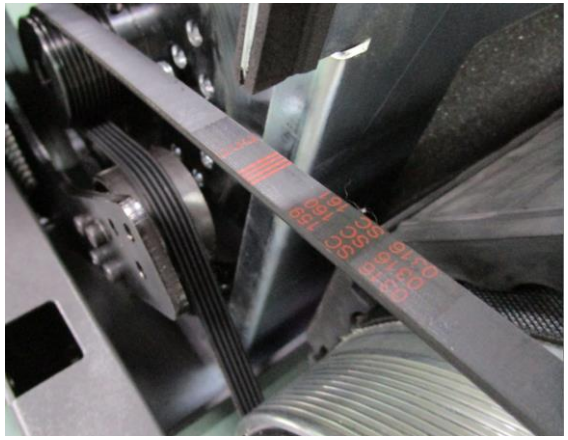
# Parts Disassembly and Assembly

Machine Type: N685/G690

Item: Replacement of the Poly-Rib Belt.

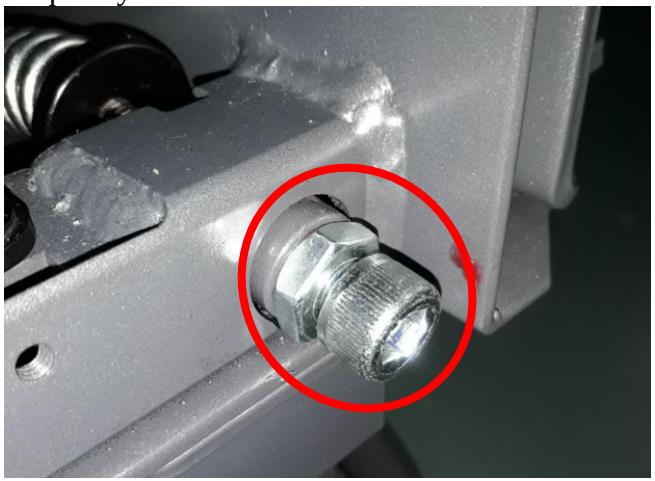
Step5. Raise the Front Wheel, install the Poly-Rib Belt and lock the Screw of the Front Wheel. First place the Belt into the Major Belt Wheel, and install the Belt Pulley for the Cast Steel Wheel

Step6. Adjust the position of the Poly-Rib Belt, so that the Poly-Rib Belt is in the middle of the idler wheel when it is rotated forward and backward.



Step7. Use the sound frequency APP on the Smartphone and flip the Poly-Rib Belt to test the vibration frequenc

Step8. As shown below, fine-tune the screw so that its vibration frequency is between 125-135Hz.



## Parts Disassembly and Assembly

Item: Replacement of the Surface of the Slide Plate.

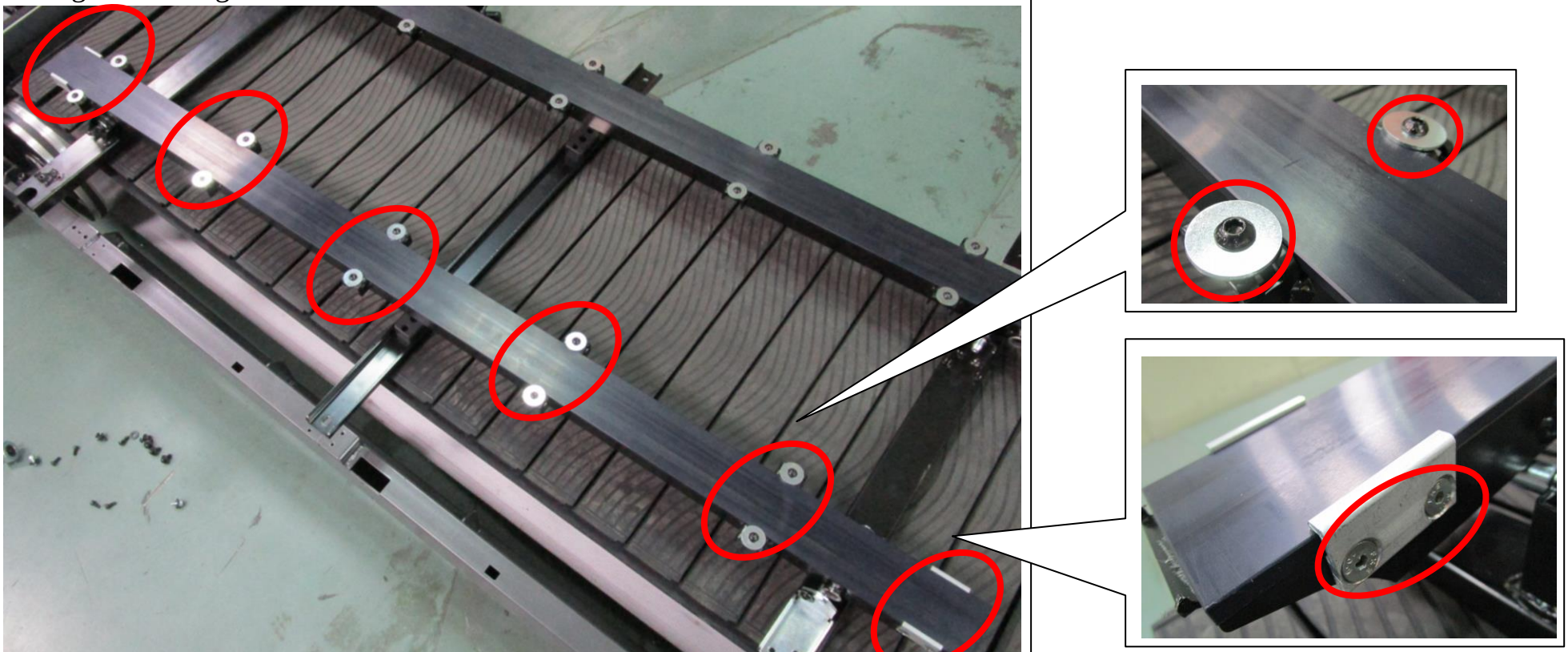
Timing of Replacement: When the Surface of the Slide Plate is overly worn

Replacement Method: 1. As shown below, disassemble the screw to take out the old Slide Plate and thoroughly remove the remaining glue.

2. Attach the foam onto the SP parts, install the new Slide Plate , and lock up the screw in the specified sequence.

Notes: Please check the Surface of the Slide Plate during replacement. If the Surface is rough, use the sandpaper to polish the surface. If the surface is unclean, please clean up the surface.

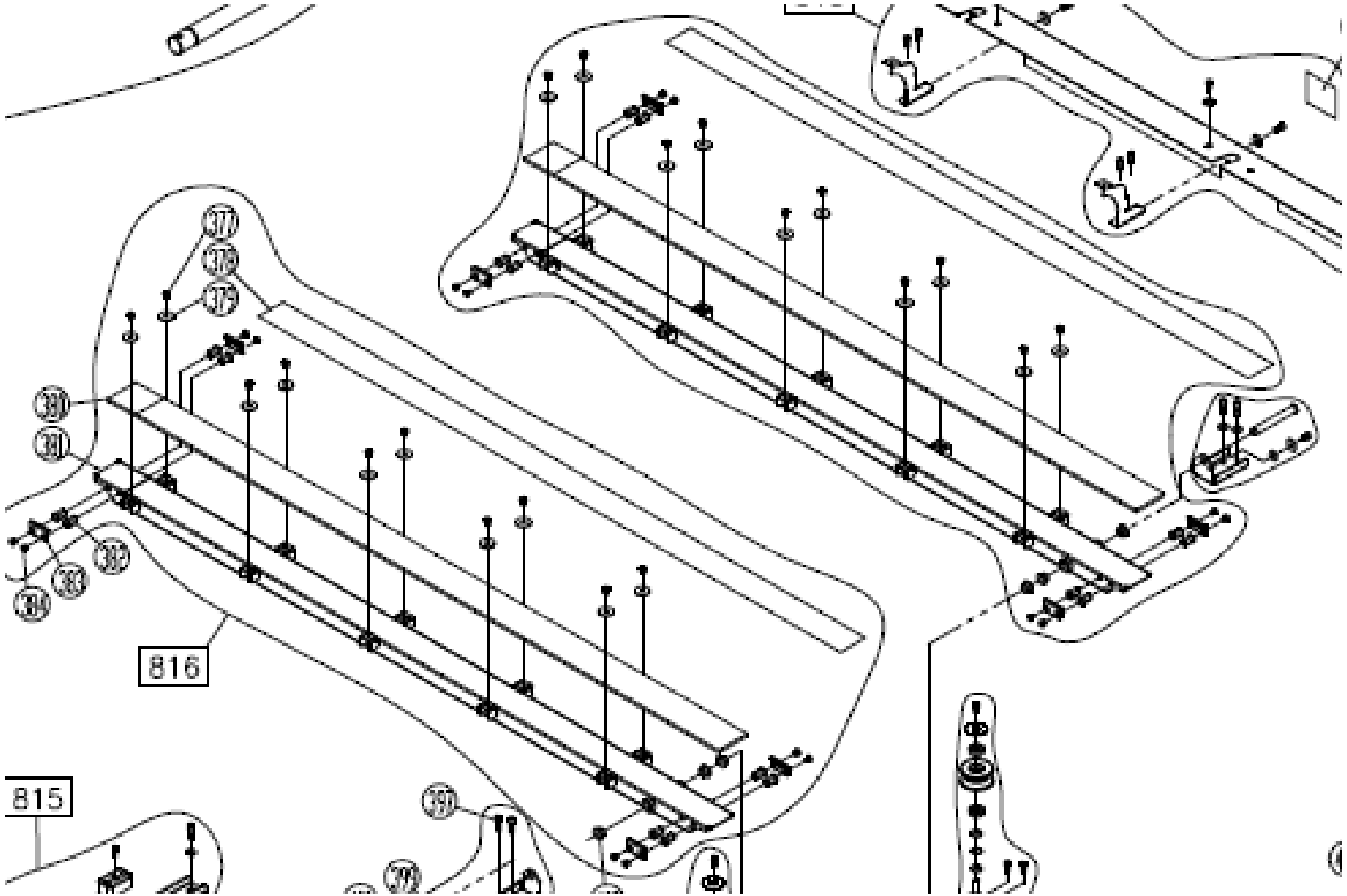
Configuration diagram of the Slide Plate and the Horizontal Rod



## Parts Disassembly and Assembly

Item: Replacement of the Surface of the Slide Plate.

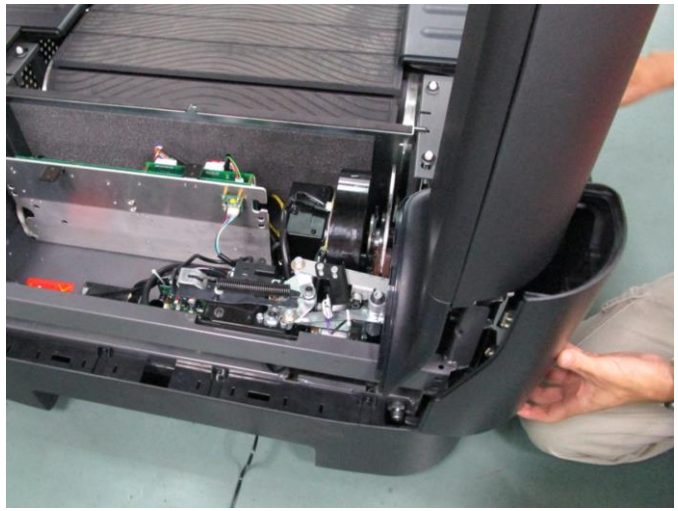
Description: Exploded View Diagram of Relevant Parts.



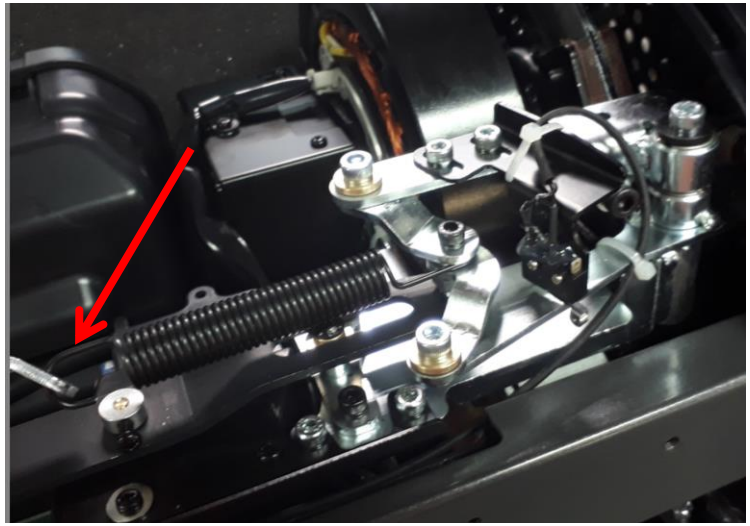
## Parts Disassembly and Assembly

Item: N685 Replacement of the Brake Pad.

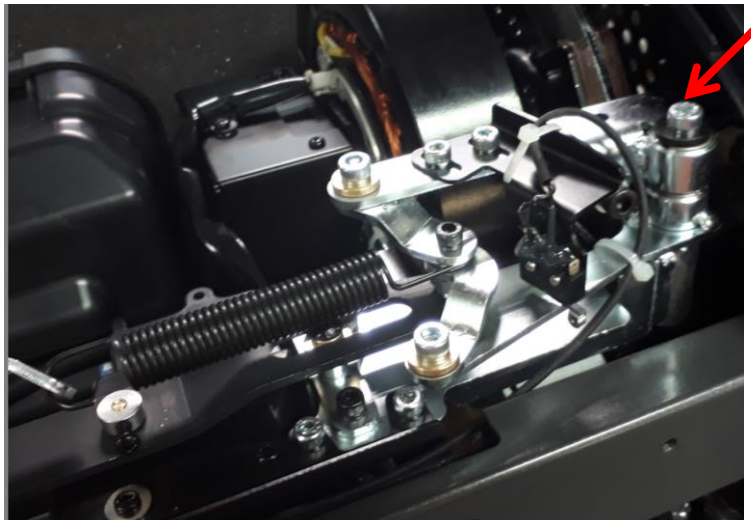
Step1. As shown below, takeout the protective cover.



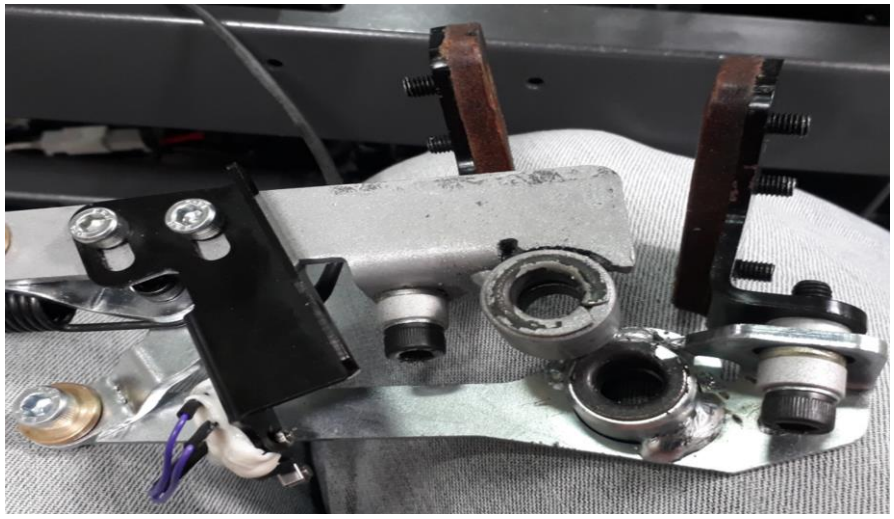
Step2. Loose the Spring of the Brake System.



Step3. As shown below, disassemble the screw.



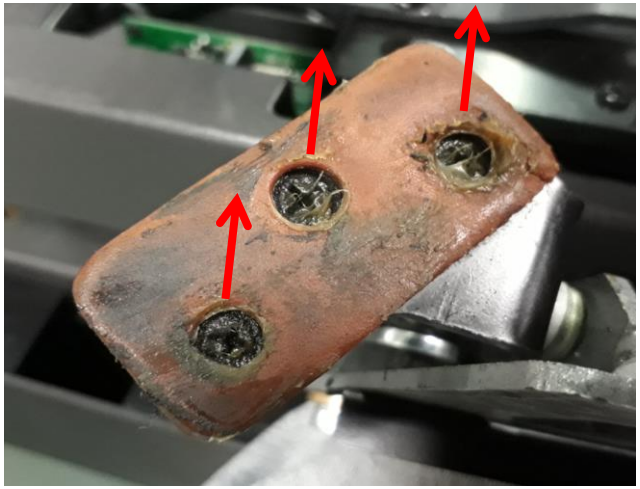
Step4. Take out the accessories.



## Parts Disassembly and Assembly

Item: N685 Replacement of the Brake Pad.

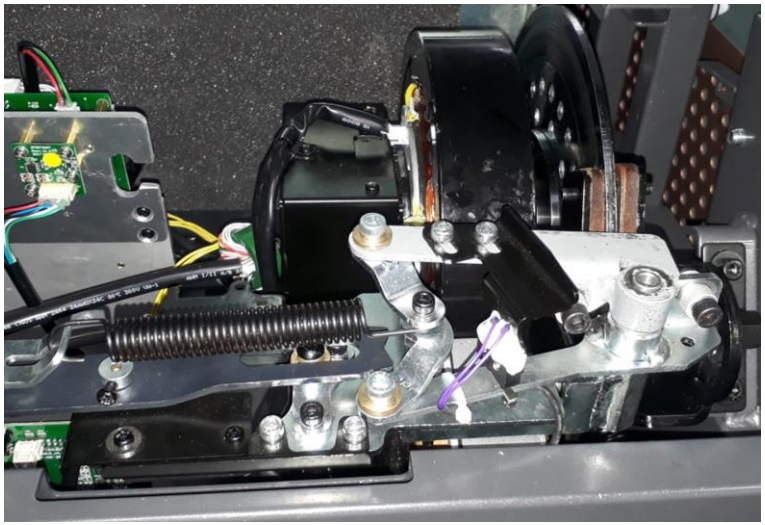
Step5. Take out the Brake Pad Screw x3, install the new Brake Pad and lock up the screws.



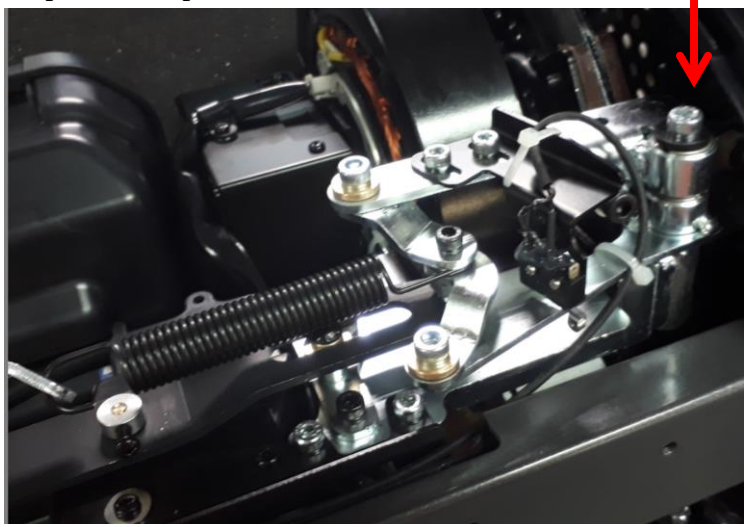
## Parts Disassembly and Assembly

Item: N685 Assembly of the Brake Pad System.

Step1. Put the Brake Pad and the Spring back in place.



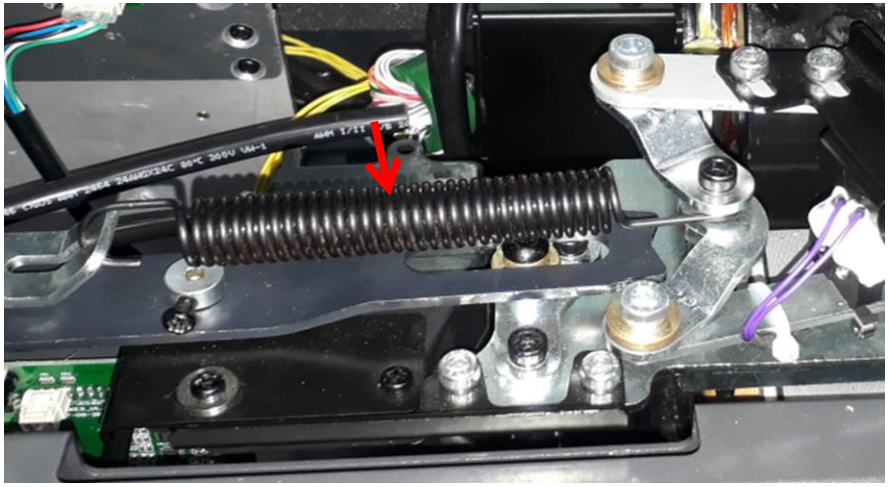
Step2. Lock up the screws.



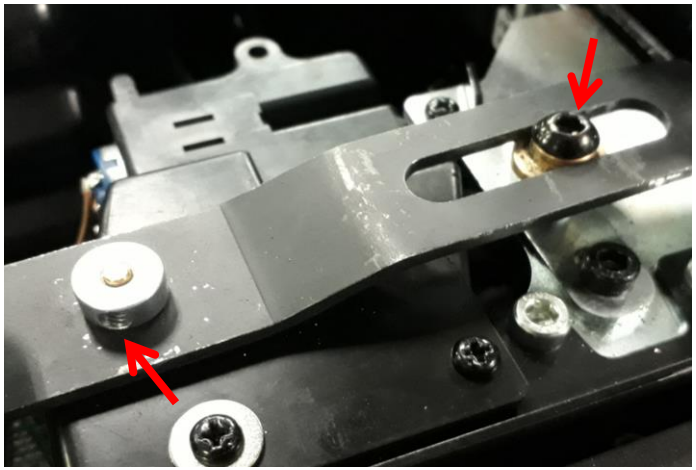
# Parts Disassembly and Assembly

Item: N685 Replacement of the Brake Gearbox.

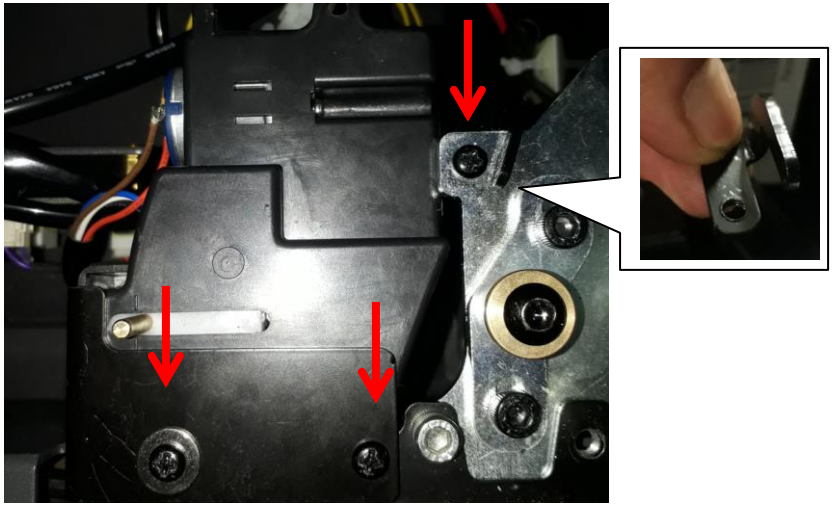
Step1. Disassemble the spring.



Step2. As shown below, disassemble the screw x2.



Step3. As shown below, disassemble the screw x3 and take out the gear set.

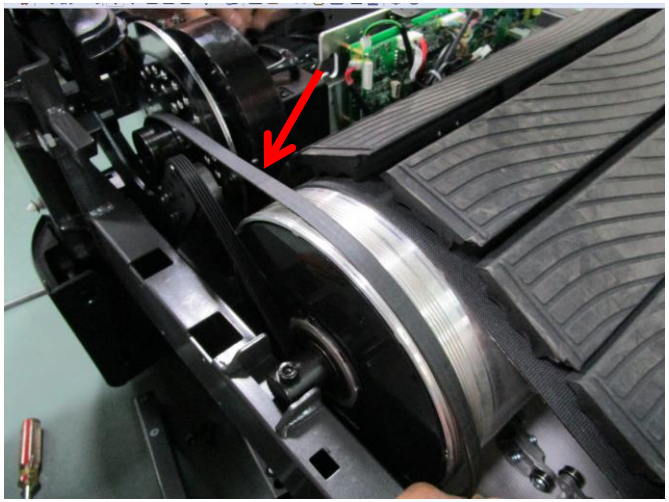


Step4. During assembly, please lock up the screws in the specified sequence.

## Parts Disassembly and Assembly

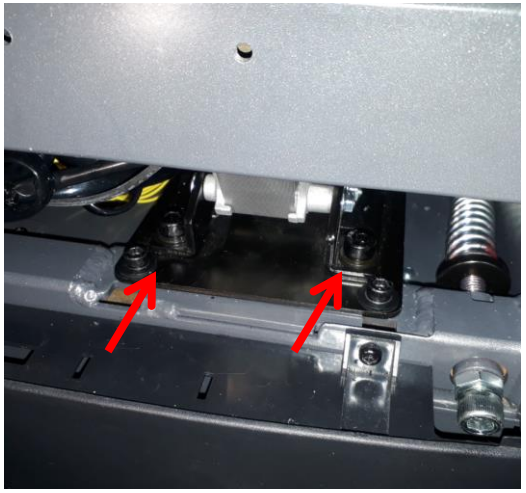
Item: N685 Replacement of the Generator Cast Steel Wheel.

Step1. Remove the belt on the generator.

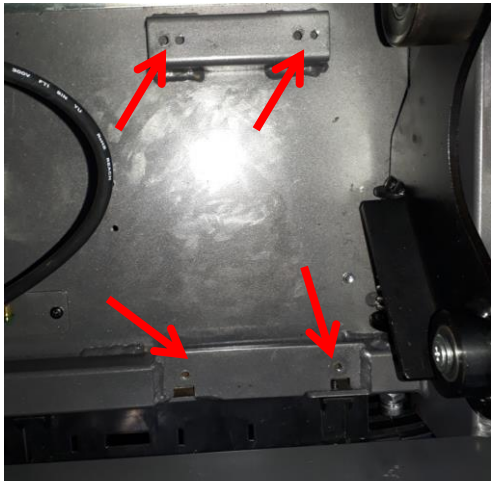


Step2. As shown below, disassemble the specified screws.

Step3. As shown below, disassemble the Screws and take out the Cast Steel Wheel.



Step4. Screw holes of the Generator Cast Steel Wheel.



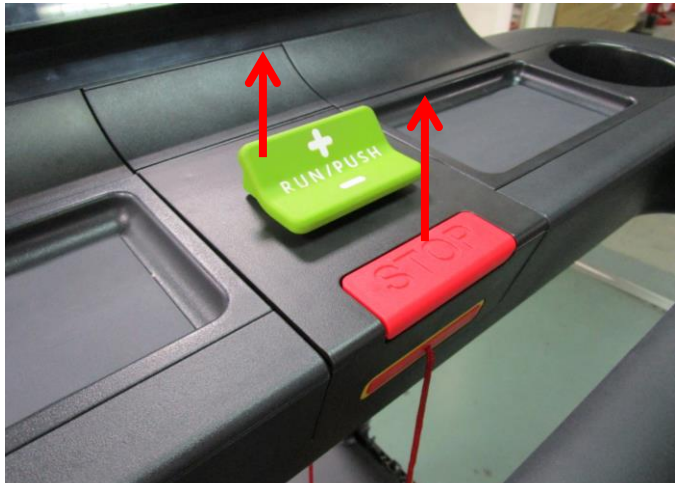
# Parts Disassembly and Assembly

Item: N685 Replacement of the Button under the Electronic Meter.

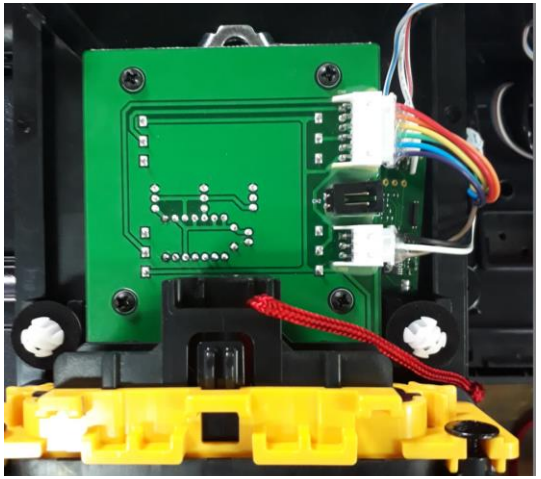
Step1. There are screws x2 under the Electronic Meter.


Step2. Loosen the screws under the Electronic Meter.

Step3. Push the button group in the upward direction.



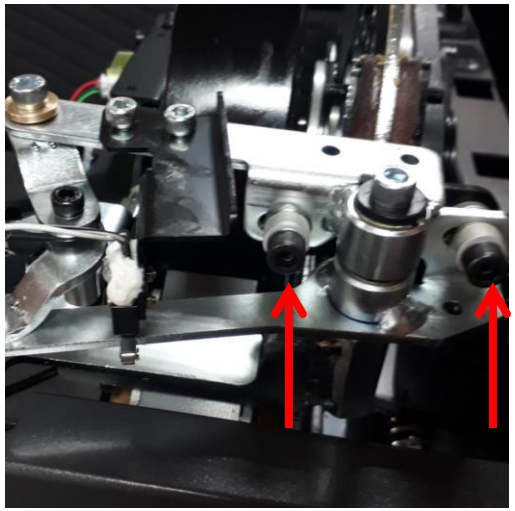

Step4. See the diagram as shown below.



## Parts Disassembly and Assembly

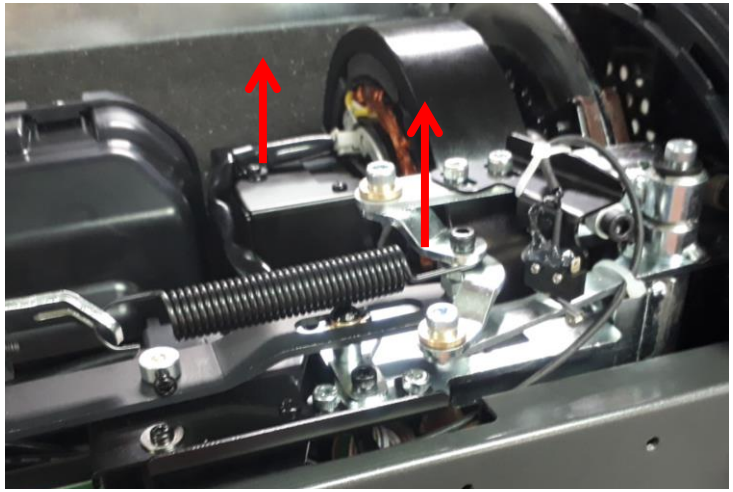
Item: Correction to the tightness of the Brake Pad Retaining Clip.

Step1. As shown below, loosen the screws slightly.



Step2. Press <Change display>+<Enter> on the Electronic Meter, and the panel will show ”- - -.” Then, the Electronic Meter will be shut off automatically.


Step3. The Brake Gear will be in place at the anchor point.



Step4. Use the binder to tighten the Brake Pad. Lock up the screws to complete the process.