



High Speed Refrigerated Centrifuge

Model YR0114-1

Instruction Manual - Installation and debugging

Thank you very much for purchasing our Kalstein's High Speed Refrigerated Centrifuge Model YR0114-1

Please read the "Operating Instructions" and "Warranty" before operating this unit to assure proper operation. After reading these documents, be sure to store them securely together with the "Warranty" at a hand place for future reference.



Warning: Before operating the unit, be sure to read carefully and fully understand important warnings in the operating instructions.



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Our work team is always available to response all your consults or questions, in order to support you in any situation.



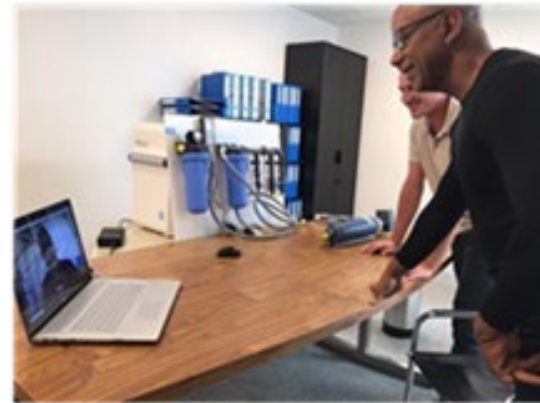
#Letsgivemore

Thanks to your purchase, a donation will be made to a non-profit foundation that fights against breast cancer and helps most vulnerable communities.



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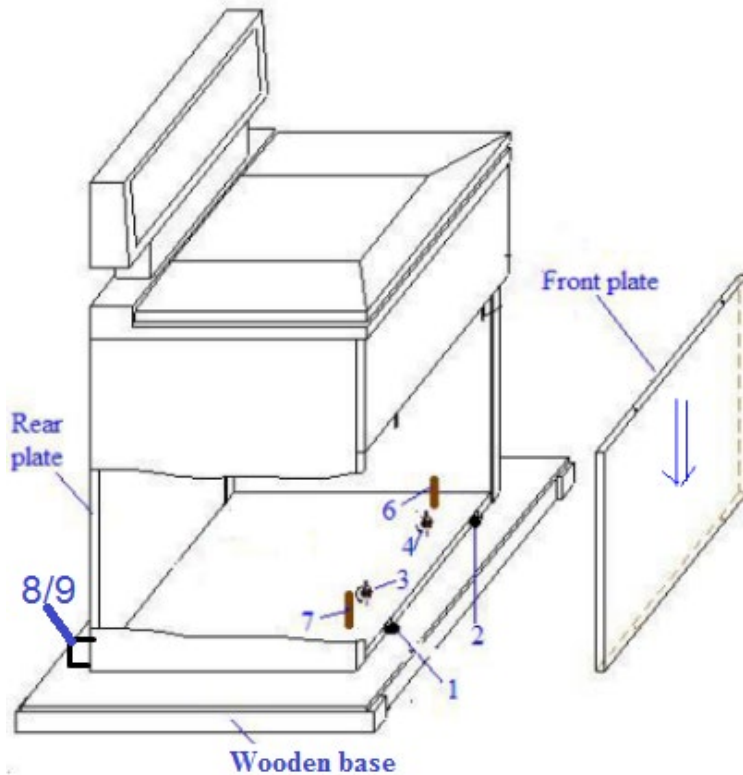
With more than 25 years growing with our customers, Kalstein's multiformat and modern content, is now present in more than 10 countries and increasing.





- 1) Unpack wooden case. Please loosen the screws on the left, right and front plate, remove the wooden case from the machine, you will find the machine is attached to the wooden base.
- 2) Do some cleaning job, check if there are damages resulting from transportation.
- 3) Detach the machine from the wooden base, and place the machine to the right position. Please do as follows:





Picture 1

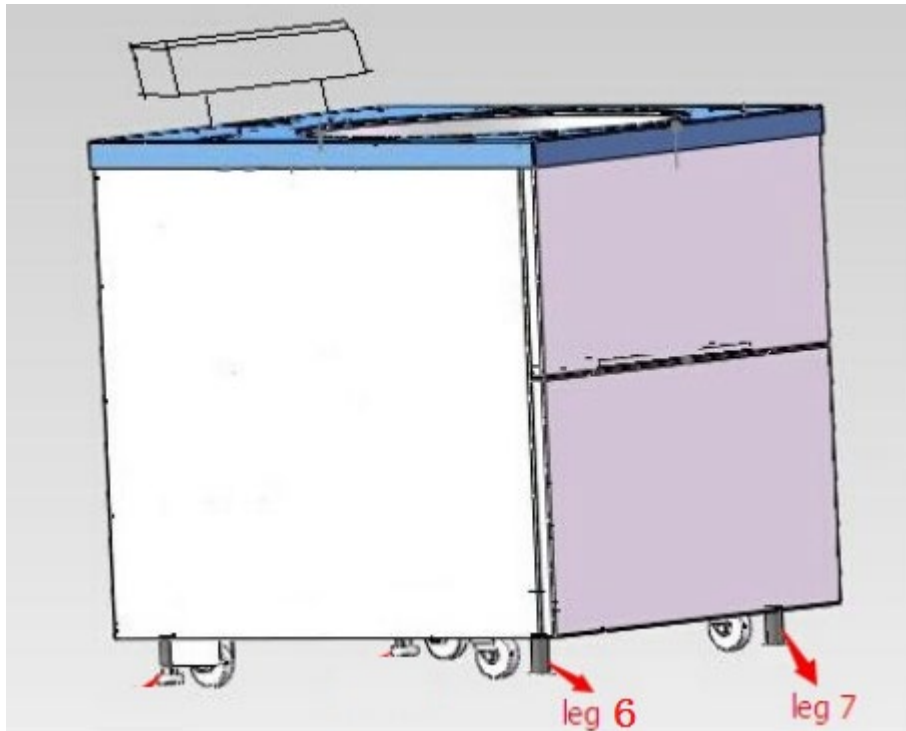
a). Firstly loosen the screws 1 and 2 which are at the bottom of front plate, and push down the front plate. Then the front plate can be removed from machine.

b). Find the screws in position 3 and 4, loosen the screws to disconnect the machine from the wooden base.

At the back of centrifuges, there are two woodblocks, we mark it to be 8 and 9, please loosen screws to remove the two woodblocks.

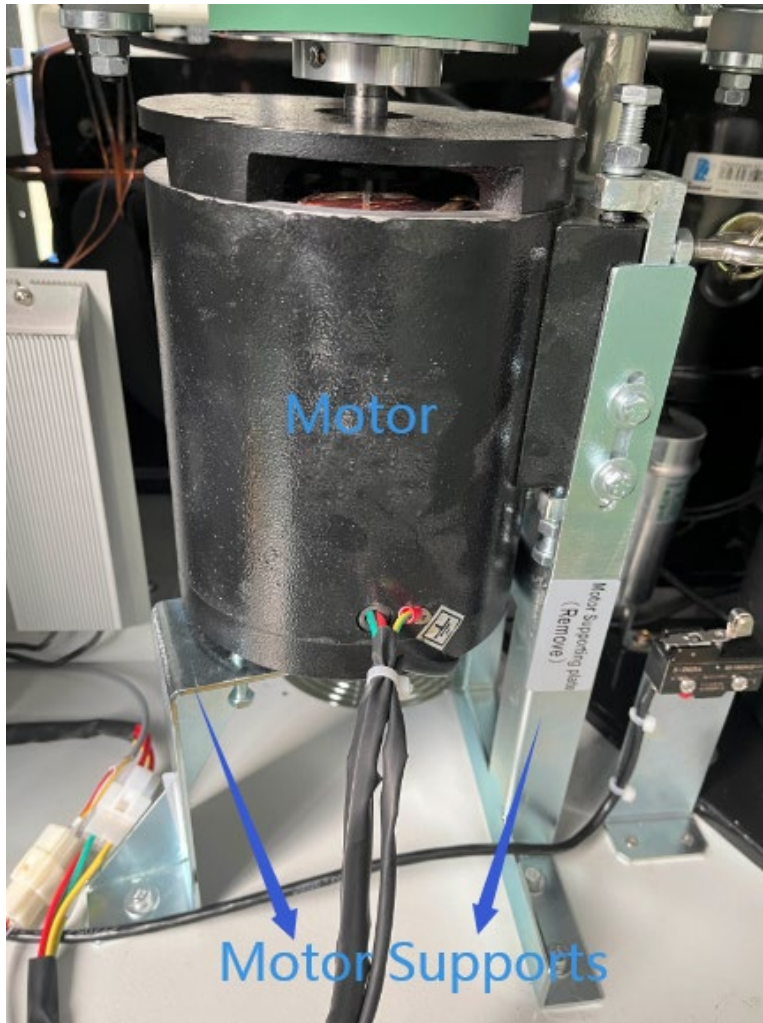
Carefully remove the machine from the wooden base, and push it to its working place.

* Kindly note the machine has castors, you can push the machine to its working position.



c). After you place the machine to its right position, please find the screws we marked with the figure of 6 and 7 (it is machine feet/leg). Please rotate the two screws in clockwise direction, until the feet touch the floor. Then the castor can't work, the machine will stand on the floor, please make sure it stands steadily and horizontally.

d) In order for a safe transit, the motor may have a vibration in transit, which may cause problems of big noise or other issues, we try to fix the motor by **two** supporting plates/supports. Please remove the 2 supporting plates. Try as follows:



2 supports

Kindly note the supporting plate has two ends, it can connect the motor to the metal base plates. There are 2 screw at each end, please remove the 4 screws(in yellow circle) and take the supporting plate away.



** It is necessary to remove the supporting plate (See the picture above). The supporting plate is only used to keep a safe transit. It affects the motor working in the course of operation.

e) Install the front plate by tighten the screws 1 and 2.

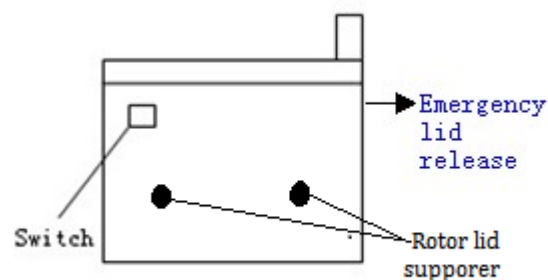
Debugging

By confirming the machine is well installed, please find the switch, which is on the right side of machine, switch the machine on.

1. Open the lid

This model has electronic lock. Press OPEN DOOR key for 3 seconds to open the lid automatically.

If there is no power, there is an emergency lid release at the rear plate. Pull the line, the lid will open by manual.



* Kindly note you can place the rotor lid on the rotor lid supporter.

2. Horizontal test

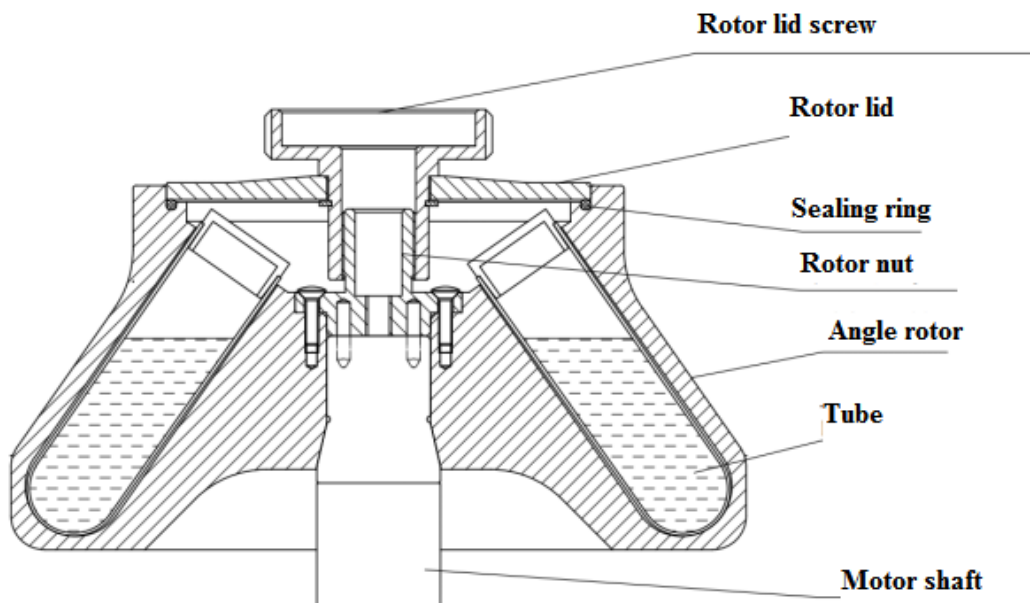
Kindly note we pack a yellow gradienter in the carton of spare parts. Please open the lid of machine, and place gradienter on the motor shaft.



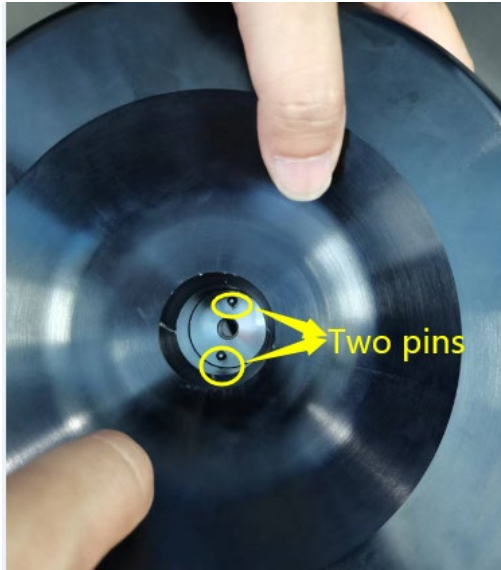
Make sure that the bubble stays at the center of gradient. It means the machine stand horizontally. It benefits for rotor spin.

If not, please adjust the leg 6/7 of the machine. (Picture I)

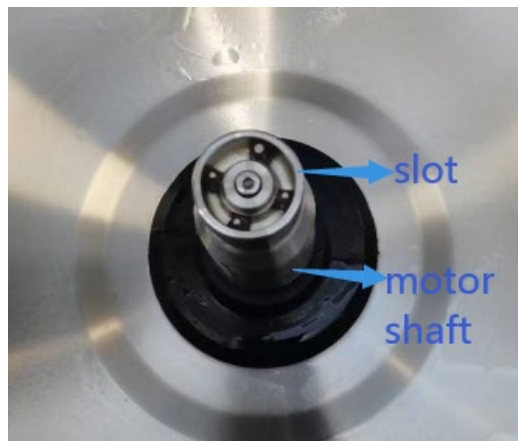
3. Rotor assemble



There are 2 pins at the bottom of the rotor.



There is slots at the top of motor shaft.




Please try to insert the two pins of rotor to the slots which we marked in yellow or orange slot. See the follows:

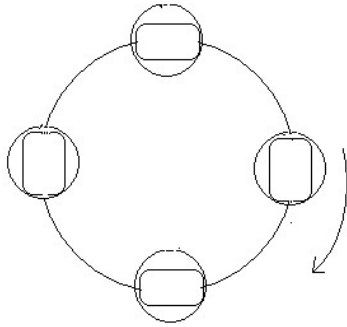


You will find that the rotor snaps to the motor shaft (There is a sharp sound). Then

the rotor is well connected.

 Please don't shake the rotor by your hand, it will bend the motor shaft.

4. Place the tube into the rotor symmetrically.

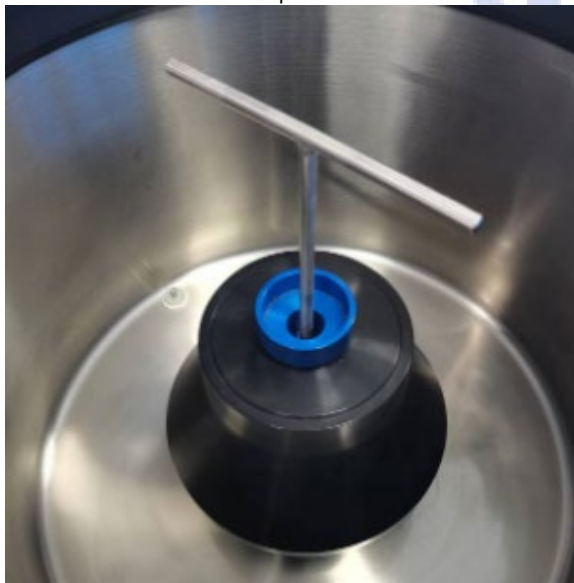


5. Rotor removal

* When you remove the rotor, please find the T-Shape tool we pack together with the goods.



T-shape tool



Insert the T-shape tool into the center of rotor lid, please rotate the T-shape tool until you can lift up the rotor by T-Shape tool.