
Ophthalmic Chair

INS-11103



Product introduction

The comfortable and beautiful INS-11103 electric lifting chair has large lifting range, low noise, safe and stable operation, and automatic limit functions, which makes it easier and faster for operators and customers to use the equipment.

The INS-11103 headrest can be raised and the backrest can be reclined. Its function are more comprehensive.

1. The chair can be rised or felled in the range of 0-140mm.
2. The backrest angle can be adjusted in the range of 80 ° to 180 °.
3. The chair can rotate 270° degrees (attention! Do not spin)
4. The head pillow adjustment area is in a semicircle with a radius of 250mm.

Safety warning

△Attention:

1. Before installation and use, please read this manual carefully and install and use the equipment in strict accordance with the operating specifications.
2. Before using the equipment, the grounding wire of the mains socket shall be installed reliably.
3. When installing, moving or disassembling the device, it must be handled with care. Hammering and impact are strictly prohibited. The fasteners should be installed with even and gentle force.
4. The whole machine must be placed smoothly and firmly and avoided load bearing, shaking and other situations. The equipment should be installed in a ventilated, dry and clean place as far as possible.
5. In case of equipment failure, please refer to this manual and carry out maintenance under the guidance of professionals. The adjustment of circuit must be carried out by professionals after power failure.
6. The fuse and working lamp must be replaced according to the original specification and model.
7. Make sure to use the specified power supply voltage, If too high or too low, will be easy to cause equipment damage.
8. When the work is finished, the main power supply should be turned off. If the machine is stopped for a long time, the power plug should be pulled out and a dustproof cloth should be put on.
9. Do not use organic solvent to clean the surface of the equipment, or it will damage the appearance of the equipment.

10. The chair load can not exceed the maximum bearing value.

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The latest product information and documentation information, please refer to the relevant content of the URL <http://www.bjoptics.com>.

Technical Specifications

1. Mechanical Parameters

1. The lowest point of pedal clearance from the ground is 88mm. (as shown in figure 01)
2. Up and down within the range of 568mm (lowest point) + 140±5mm. (as shown in figure 01)
03. Chair rotation angle is 0 ° and 270 °. (Attention! Do not spin)
04. The adjustment angle of backrest is 80 ° to 180 °. (as shown in figure 02)
05. The head pillow adjustment area is in a semicircle with a radius of 250mm. (as shown in figure 01)
06. The maximum load of the chair is 150kgs.

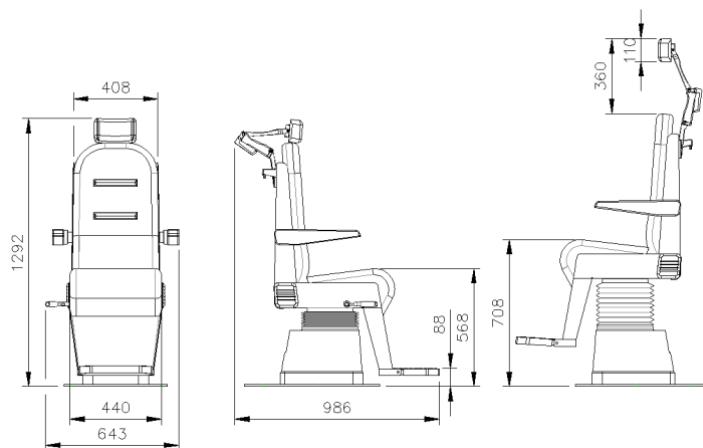


Fig. 01

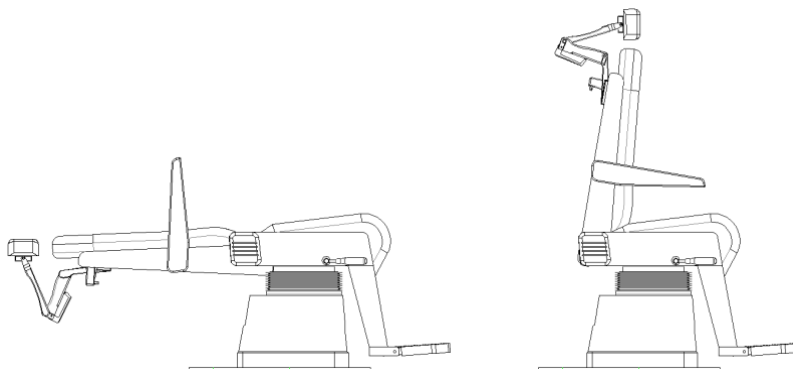


Fig. 02

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2. Electrical Parameters

- 01. In voltage: 100-V AC 50Hz/60Hz
240V AC 50Hz/60Hz
- 02. Output voltage: 100- AC 50Hz/60Hz
(The optional) 240V AC 50Hz/60Hz
- 03. Engine power: 28V 1.5A DC
- 04. Fuse: 5A 130/250V AC
- 05. No load power: 1W
- 06. Pressure test: 2KV
- 07. Working mode: S1
- 08. Main wire: 10A 120V/250V
- 09. Working temperature: - 30°C~ + 50°C
- 10. Relative humidity: less than 90%
- 11. Force of pressing key: 1N~5N
- 12. Cooling mode: nature cooling

3. Installation Dimension

Figure size: 1884mm x 1316mm x 1663mm (No contain pillow and adjusted size of the backrest) as shown in figure 03.

The weight of the whole machine: 145kgs

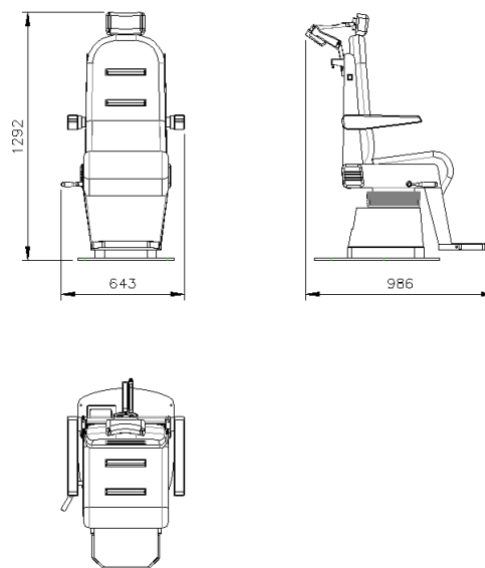
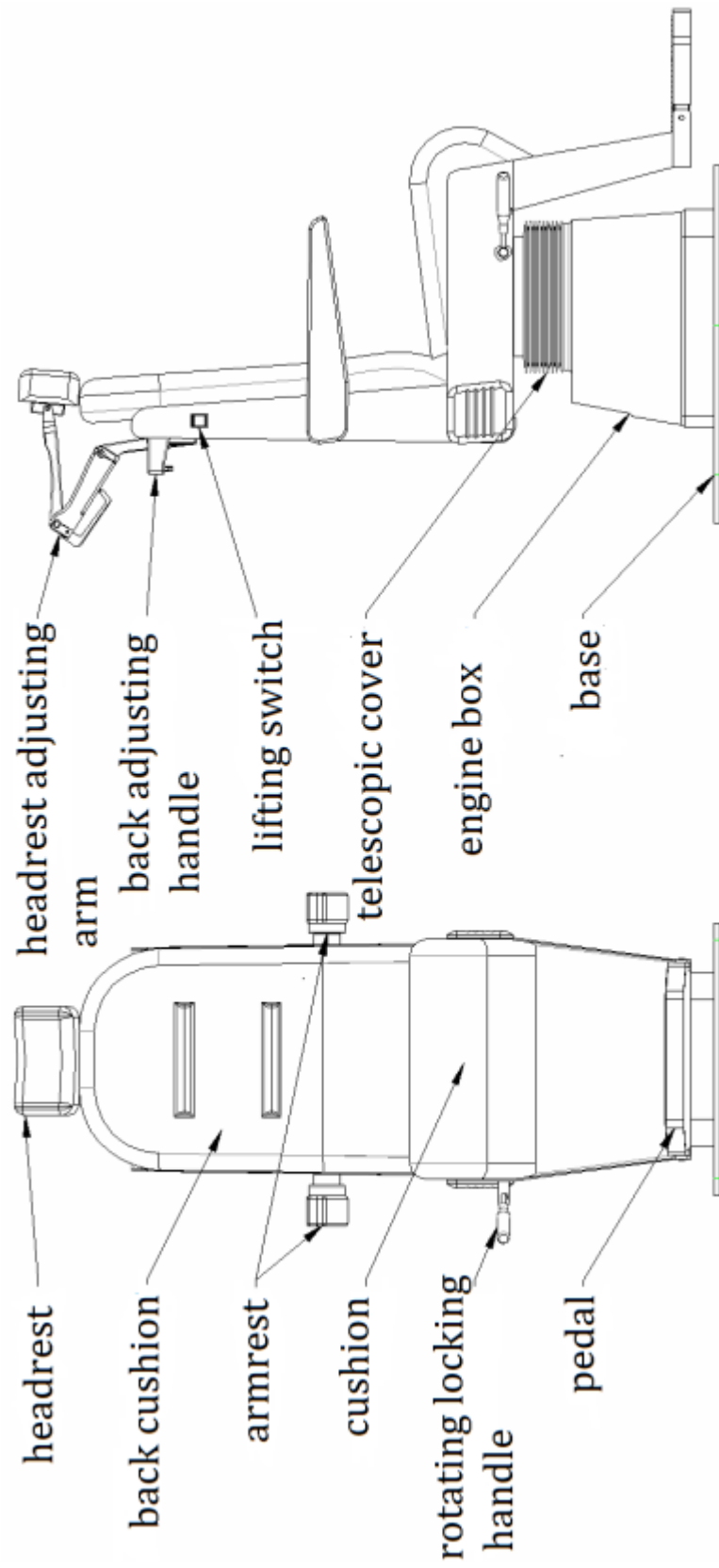


Fig. 3

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Product Parts Description



Packing List

Name	Packing list	
Chair packing	Tool kit	A set of Allen wrench
		Dual-purpose screwdriver
		Fuse: 2pcs
		chair leveling anti-skid bolts: 4pcs
	Chair: 1pc	
	Footboard switch : 1pc	
	Power line:2pcs	
	Chair connecting line(single plug): 1pc	
	Using manual: 1pc	

Installation Instructions

01. Move the chair packing box to the desired location before opening the packing box.

02. Open the packing box, first read the using manual in detail and check whether the parts, random tools and chair are complete according to the packing list.

Breakage.

03. Remove the fixing bolts from the four corners of the chair base with a Philips screwdriver (as shown in figure 04), tear off the packaging film, and check that whether the chair rotating locking handle is in the locking state (clockwise is locked), two people lift the chair and put it on the working position.

4. Tear off the protective film on the base plate, place the level ruler on the base plate, and then take out the four leveling anti-skid bolts in the tool kit (as shown in figure 05). Use size 4 Allen wrench to screw the leveling bolt into the mounting hole (as shown in figure 06) to level the chair.

05. Take out the chair cable, respectively connected to the chair and control cabinet, and then screw the locknut tight on the aviation plug.

06. Power on for trial operation, and test the key functions of the control panel, including chair lifting function, noise, working lamp, computer and projector operation. After no error, install the front cover of the control cabinet of the ophthalmic unit table.

Attention!!!When the control cabinet provides power to the chair, the power supply line of the chair should be broken to avoid burning the seat power supply and the chair circuit board.

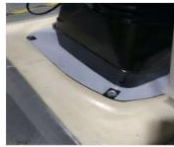


Fig.04



Fig.05



Fig.06

Using Method

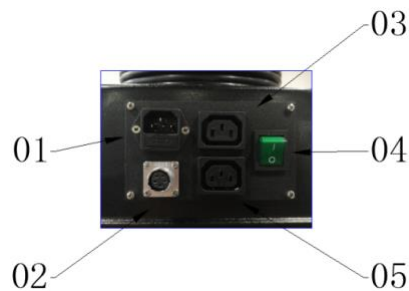
1. Power On And Power Off

01. Power on: after plugging the power cord into the power input socket, connect to the external power (attention! Whether the external power supply is in line with the chair identification power supply). Turn on the main power switch of the chair (then the power switch indicator light will be on) , and the power will be started.

02. Power off: first, lower the chair to the lowest level, and then turn off the main power switch (then the power switch indicator light will be off). Unplug the power cord when not in use for a long time.

2. Power Panel

01. Power Panel Description

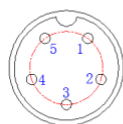


- 01 power input socket and fuse 02 chair connecting line socket
- 03 backrest controlling socket 04 main power switch 05 pedal switch socket

02. Chair Socket description

Reference diagram of five-core aviation plug wiring

DC: 24V

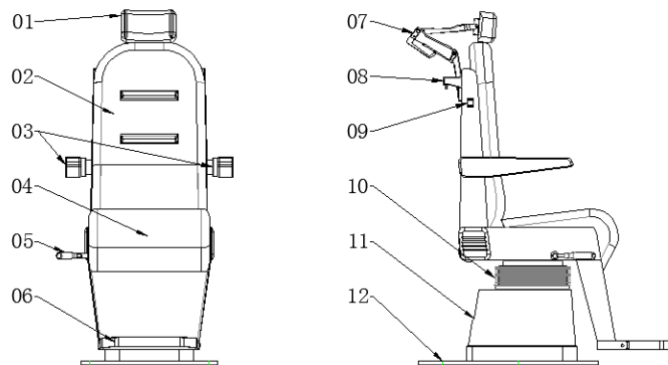


- 1 red motor positive +
- 2 green motor negative -
- 3 black motor falling
- 4 yellow motor collineation
- 5 blue motor raising rising

Attention!!! When the control cabinet provides power to the chair, the power supply line of the chair should be broken to avoid burning the seat power supply and the chair circuit board.

2. Chair Using Method

01. Chair Parts Description



01 headrest	02 back cushion	03 armrest	04 cushion
05 rotating locking handle	06 pedal	07 headrest adjusting arm	
08 back adjusting handle	09 lifting switch	10 telescopic cover	
11 engine box	12 base		

02. Chair Backrest Control Switch Using Description



The control panel of the chair backrest on both sides is the chair (CHAIR) lift switch, press (Δ) key can up (UP), and press (∇) key can down (DOWN).

03. Chair Using Description

- 1) Rotate the chair locking handle clockwise to lock the chair, and the chair will not be rotated; rotate the chair locking handle counterclockwise to unlock the chair, then the chair can rotate with 360° (Attention! Do not spin).
- 2) Both armrests with perpendicular to the backrest plate and move with it, they can do 90° up rotation, and only in the two position of 0° and 90° to be locked.
- 3) The angle of the backrest can be adjusted by holding the backrest adjusting handle, and the backrest can be locked to keep still by releasing the handle; Backrest can do 80° to 180° rotation (as shown in figure 07).
- 4) Lift the locking handle of the headrest arm to unlock (Attention! Hold the headrest with your hands when lifting the locking handle to avoid rapid fall to hurt someone) (as shown in figure 08). According to the user's requirements it can be

moved within the semicircle with a radius of 360mm, and press down the locking handle to make the headrest in the locking state, and headrest arm is locked; headrest cushion can do a 60 ° swing with the arm.

5) Plug the pedal switch attachment plug into the socket on the lower left side of the power board on the motor box. Press the red switch can make the pedal up and press the black can make it down.

6) Plug the connecting wire out of the backrest into the socket on the upper left side of the power board on the motor box. It is the control switch connecting wire on the backrest.



Fig.07



Fig.08

Trouble And Maintenance Of Chair

1) Both the armrests are not on the same horizontal surface (one is high and the other is low). Use Size 5 Allen wrench to loosen the locking screw at the root of the armrests that not perpendicular to the backrest plate by counterclockwise rotation of the bolt (as shown in figure 09), after making the armrest perpendicular to the backrest plate, turn the locking screw by clockwise rotation.

2) after releasing the backrest adjusting handle, the chair backrest can still be moved or cannot be moved normally after holding the handle. Use a Phillips screwdriver to loosen the fastening screw at the back cushion of the chair backrest by counterclockwise rotation (as shown in figure 10), lift the back cushion upward and set it aside; use the 10-12 open spanner to loosen the adjusting screw by counterclockwise rotation (as shown in figure 11), then adjust the length distance of the wire rope, reducing the distance is be loosened, increasing the distance is be locked; After adjusting, install the chair cushion from top to bottom and fix it by the screw .

3) After the headrest arm is locked, the headrest moves back phenomenon (the locking handle cannot be locked). Lift the locking handle of the headrest arm up to unlock(attention! Hold the headrest with your hands when lifting the locking handle to avoid rapid fall to hurt someone) then put it on the backrest (as shown in figure 12) , and use a size 4 Allen wrench to lock the top wire at the bottom of the locking handle arm with counterclockwise rotation (as shown in figure 13), and then use a slotted screwdriver to rotate the adjusting screw clockwise to tighten (the counterclockwise is be loosened), the range of each adjustment is 1/4 or 1/2 circle (as shown in figure 14), after the adjustment, the top wire shall be rotated in to lock tighten by using the Allen wrench (as shown in figure 15).

4) If the headrest cushion is loose, use a size 4 Allen wrench to rotate the two fixing

screws of the headrest and the supporting arm tighten by clockwise rotation.

Attention! The chair can rotate in 360 ° , but don't spin (can damage control switch connecting line of the backrest). When lifting the locking handle of the headrest arm , hold the headrest with your hands to avoid the damage of personnel and equipment caused by the sudden slide.



Fig.09



Fig.10

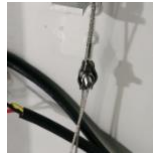


Fig.11



Fig.12



Fig.13



Fig.14



Fig.15

Common Trouble And Solution

Trouble Phenomenon	Trouble Cause	Maintenance And Repair Method
The indicator light doesn't work after starting up.	Fuse blow	Check and change
	The plug is not properly plugged in	Insert the plug
	Socket without power (no mains power)	Test confirmed
The indicator light is on after starting up(power on), but doesn't work	Bad contact of plug	Check circuit and solution
The machine is powered on (power supply, control panel), but doesn't work.	Control panel is broken	Check and change
	The voltage does not conform to the regulations	Test confirmed
The limit switch of the chair under the working table is powerless.	Switch is broken	Change the switch
	Circuit connection error	Check circuit and solution
The chair only goes down not up.	The chair rising limit switch under the countertop is broken.	Change

Check the above phenomenon, if still unable to work, please contact the factory or the Repair service store, please let professional personnel to maintenance equipment or change parts.

Maintenance service

Do not try to repair the machine by yourself, after the cover is opened, you will face electric shock and other dangers!!! Please let professional maintenance personnel to repair.

Under the following circumstances, please unplug the power plug from the power socket, and please professional maintenance personnel for repair.

1. Damaged power cord or plug.
2. Liquid splashes on the fuselage or foreign objects fall into the aircraft.
3. The machine is exposed to rain or water.
4. The machine is dropped or damaged.
5. In case of abnormal conditions of the machine.

Repair guide

Repair telephone: 0316-6067208

Step 1: make a call detailing the problem

Step 2: mail the defective machine to our company

Step 3: repair and send it back to the user

Step 4: call back