

User's Manual

Dental Unit

TR-A6600



Before using this product, please carefully read the <user' manual> and refer to the following content:



Danger ! –it means high degree of danger which might injury people or damage equipment or important information which are useful to the user and maintenance personal. Be careful.



Warning ! – It means moderate degree of danger which might injury people or damage equipment or important information which are useful to the user and maintenance personal. Be careful.



Warning ! – The user shall make sure that the equipment is connected to a 3*1.5mm² electric cable .The electric cable shall be protected by a double-pole circuit decoupler (10VA and 250V ; decoupling load of at least 6,000VA;the distance between two connecting points shall not be less than 3 mm),so as to ensure safety of the user ,reliability of the equipment and favorable operation effect.



Warning ! The colors of the tree electric wires (live wire ,earth wire and zero wire)shall comply with current provisions.



Warning ! The safety fuse shall be replaced according to the required specifications. It is strictly prohibited to use safety fuse beyond the required specifications .



Warning ! The installation and debugging processes shall be finished by professionals.



Warning ! When the equipment is being maintained and repaired ,the user shall ,first of all ,drain out the water and gas .After that ,he/she shall shut down the water ,electricity and gas sources .Before using the equipment the water ,electricity and gas sources shall be connected .

Note: The machine enclosure shall be wiped up by wet cloth and rinsed by neutral detergent,so as to ensure smoothness and elasticity of the leather surface and that the leather surface will not be eroded; soft cloth wet with soap water shall be used to wash the PU components and ABS components;components with metallic baking paint shall be cleaned by soft cloth wet with soap water up with automobile wax injection.

Note: Before the sterilization process ,the three-purpose handle of airbrush and gas spout shall be put into a sterilization bag.After that ,they shall be subject to high-pressure steam sterilization(135C° (2bar)).The sterilization time shall not be less than 15 minutes.

Note: Before cleaning and sterilization of the high-speed turbine dental drill handpiece (high-speed handpiece)and the low-speed gas motor (low-speed handpiece),please read the <user's manual > provided by the manufacturer ,they shall be subject to high-pressure steam sterilization (135C° (2bar)).The sterilization time shall not be less than 15 minutes .



Warning !

The user shall be especially careful when he/she is to optical-fiber handpiece ,so as not to damaged the light-emitting end .In addition ,he/she shall make that the optical- fiber head will not come into contact with the after –treatment mixture. He/she shall keep a suitable distance between them or use a transparent matrix band 5 seconds before the treatment .

If the after-treatment mixture leaves any trace on the tool ,it shall be eliminated immediately .Dismantle the optical-fiber handpiece and clean it with a piece of cloth wet with alcohol.

Do not aim the light-emitting end of the optical-fiber handpiece at the eyes of the patient ! The emitting light might cause injury to some patients ., such as sufferers of cataract.Generally speaking ,emitting light of the optical –fiber does not cause permanent injury. However, it might cause temporary blindness .

Note:When the suction pipe is being dismantled ,the user shall not only snatch the suction pipe .

Note: The water filter shall be rinsed by ultrasonic wave or neutral detergent .



Warning ! It is strictly prohibited to use abrasive substances to clean the front protective cover and reverberate of the mouth illuminator .



Warning ! After being used , metrical for cleaning and sterilization purpose shall be treated in a safe manner .



Warning ! Rated load of the dental chair is 180KG .If the rate load is exceeded ,normal work of the dental chair will not be ensured .



Warning ! If the user presses any bottom of the dental chair ,the dental chair will stop to working .



Warning ! Please do not use this equipment in large-scaled power transformation room or any place with intense magnetic field .



Warning ! If the equipment is jointly used with an eternal device for dental implant ,each time ,the power supply of the power supply of the dental chair shall be shut down ,so as to prevent persons concerned from touching any control bottom as a result of fault or carelessness and there for cause personal injury .



Warning !

Only when the high-speed handpiece and low-speed handpiece have completely stopped can the user take down the dental needle ;otherwise the clamping head might be damage or the dental needle might be drop out and cause personal injury.

Only high-quality dental needle and bolts with suitable size can be used .

Every day ,before beginning work ,the user shall inspect whether the clamping head is damage ,so as to make sure whether the dental needle is firmly stuck in the handpiece .



Warning !

After replacing dental needle of the high-speed handpiece ,the user shall put out the dental needle to see whether it is properly installed .

Diameter of the dental needle shall be 1.59-1.60mm(ISO 1797; the third kind of standard)and the maximum length shall be 25MM (ISO 6360-1 standard) .



Warning !

Only when the dental need or replacing tool are installed can the high-speed handpiece be used .

When the tool is being used ,the user shall not be press the bottom for disconnection of the dental needle .Friction between the button and blade wheel of the gas motor might cause of the head ,which might thus be burnt out .

Tissues (tongue ,cheek and list ,etc) inside the mouth of the patient shall be protected by suitable means (mirror,etc), so as to prevent them from touching the buttons.



Warning ! The user shall not be directly touch bulb of the mouth illuminating by his/her hand .He /she shall be wear protective gloves and ,after cooling down of the bulb, replace it ,so as to avoid scald.



Warning !It is strictly prohibited to touch the PC board or electric elements of the manufacture by hands or metallic tools .

Note: If the foot switch slides on the floor ,the user could use a piece of dry cloth to wipe up dusts on the non-slip mat on the bottom of the foot switch .



Warning ! Environment protection.

1. After treating the patient ,the doctor shall collect used wastes and at the same day put the wastes and residues into the appointed wastes area for local hospital and medical institutions.
2. If the operating life of any equipment or accessory expires,the doctor shall contact with local authorities of epidemic prevention to sterilize and discard products.

●Product introduction

Thank you for your purchase and your choice for our dental units , the units was design by elite researcher who absorbed many opinions of dentists and professor of oral care and health care. With 20 years experience and development ,our dental units are quality reliable and use easy but design is new, model and beautiful.

The medical equipment is driven by silent low-voltage DC motor and imported air spring auxiliary balance to keep a stable operation of equipment and low noise. It is made simply, used easily, securely and comfortably and regarded as one of economic and applied products in dental clinic by using sensitive cold light, low voltage DC X-film, two pieces of Nsk high speed H.P and one piece of NSK low-speed H.P., three control points like main, assistant and foot panels, three all-purposed places designed for the dentist to work properly and easily, 90 ° rotatory box, optional built-in light curing machine and tooth-cleaner, Low-placed seat meeting the need of treatment to make the patients feel comfortable when lying and sitting, rotatable spittoon, thermostat Saliva cleaning instrument, adjustable strong/weak suction system and air-controlled balanced instrument-arm.

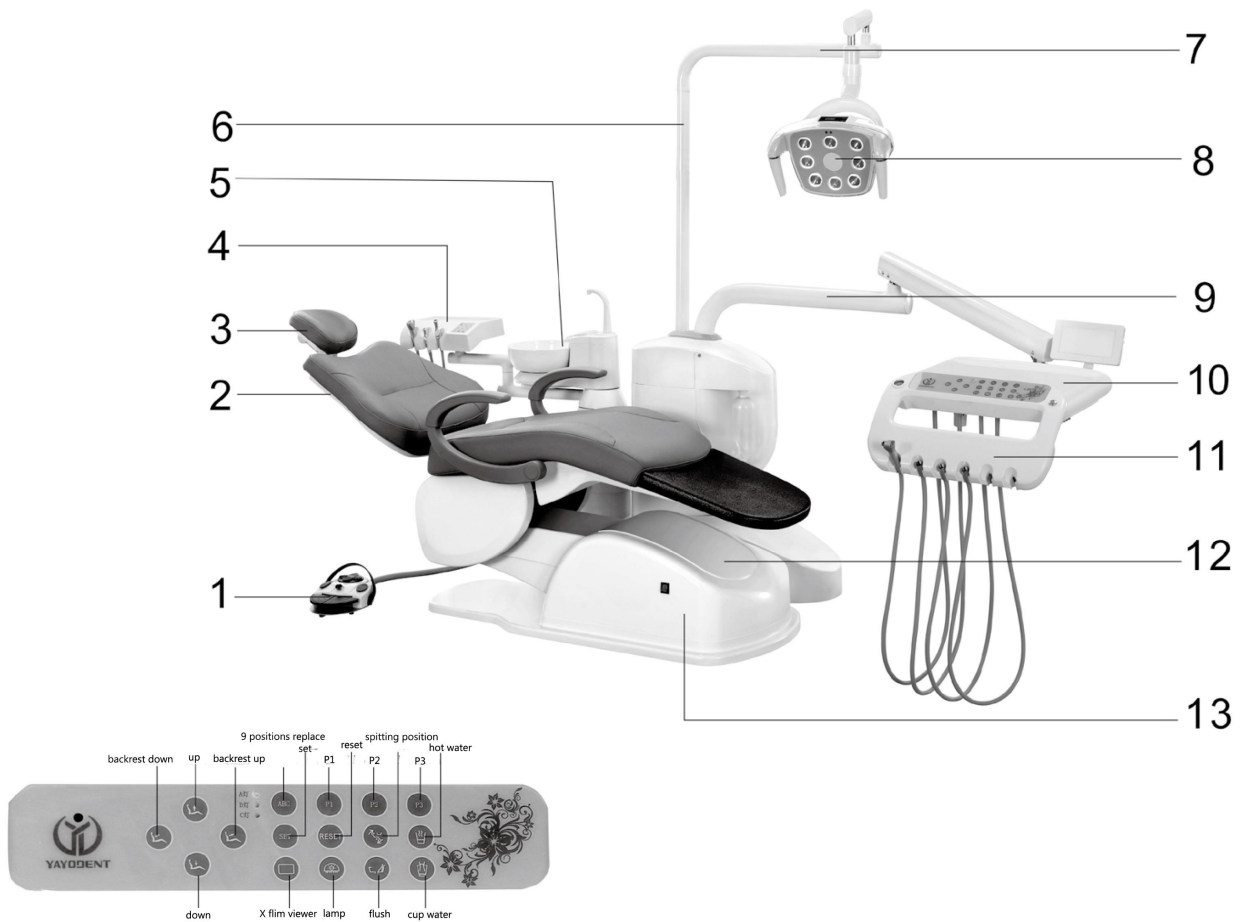
●Prelude

User's Manual contains product introduction, installation and commissioning, structure principle and adjustment method of main parts, maintenance and exception handling and so on. Without our agreement, it can't be reproduced or transferred by any organization or person. If any loss or damage in the manual, please contact our company or agency.

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● Overall structure



1.Electric pedal switch	8. Lamp
2.Backrest	9.Instrument arm
3.Headrest	10.Instrument tray
4.Assistant tray	11. Holder
5.Cuspidor	12. Floor cover
6.Pole	13. General electric switch
7.Lamp arm	

Structure and composition

It is composed by electrical dental chair, high-speed air-turbine dental handpieces, low-speed air handpieces, cold light, instrument tray, three way spray gun, water supply device, ejector, cuspidor, X-film viewer, dentist chair, pedal switch, air compressor.

Application

For examination, treatment and operation in Medical departments.

● Technical parameters

- (1) Power supply: AC220V/50Hz
- (2) Input power: 750VA
- (3) Fuse specification: general net source: FRI-20 ϕ 5X20 6A
- (4) Cold light: AC12V/50VA AC10V/50VA
- (5) X-film viewer: AC V/4VA
- (6) Water supply thermostat: AC220V/400VA
- (7) DC Motor: DC24V/ \leq 3.8A
- (8) The burden weight on the instrument tray: 1.5KG
- (9) Intermittent working system: used for 1 minute with intermittent time of 15 minutes.
- (10) Size of the Chair: 180X 100X200 cm
- (11) Size of the package: 160 X111X130 cm
- (12) N/W: 260KG

● Working environment and condition

A: An ambient temperature range of +5°C to +40°C.

B: A relative humidity is not more than 80%.

C: An atmospheric pressure range of 860 hPa to 1060 hPa.

D: The installation of electrical appliances shall comply with National rule.

E: Barometric source: Atmospheric pressure > 0.58Mpa Flow: 55L/Min-60L/Min

F: Drainage pipeline: tube 1cm leaning to the drainage-way per mater tube

● Transport and storage condition

A: An ambient temperature range of -20°C to +40°C.

B: A relative humidity is not more than 95%.

C: An atmospheric pressure range of 700 hPa to 1160 hPa.

● Cleaning, sterilization and disinfection

*** Note: Handpieces are not regarded as standard assemblies of this equipment and their sterilization shall be upon the method described in the handpieces.**

The handpieces shall be used as follows: 1)Its CE Certification. 2)Its working pressure shall be 180-300kPa with filtered air. 3)Its mouth shall comply with International standard

The ultrasonic scaler

1 Use the hair brush and the clear water to clean surface before sterilization.

2. Take the tip out from the scaler, and pack the tip and the scaler well.

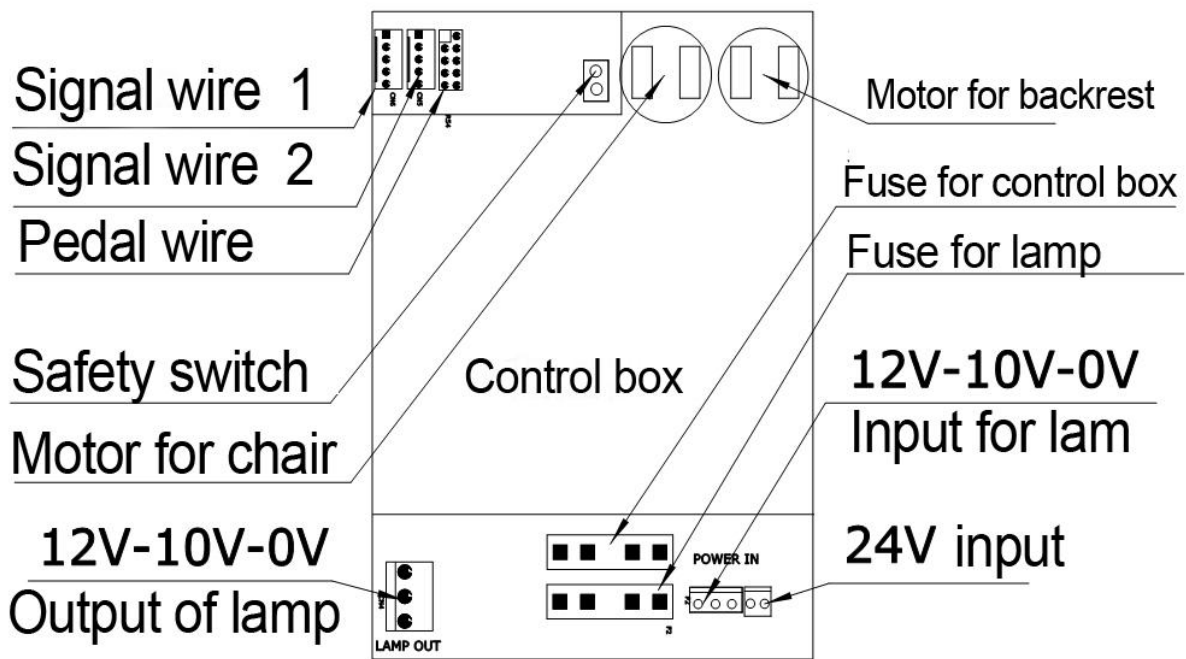
3. Sterilize the tip and the scaler in the high temperature sterilizer. Deploy: ①Sterilizing temperature 121°C ②Sterilizing pressure 1.10 ③Vaccumizing time 8 min ④Admission time 2min ⑤Sterilizing time 30min ⑥Drying time 10min.

Curing light

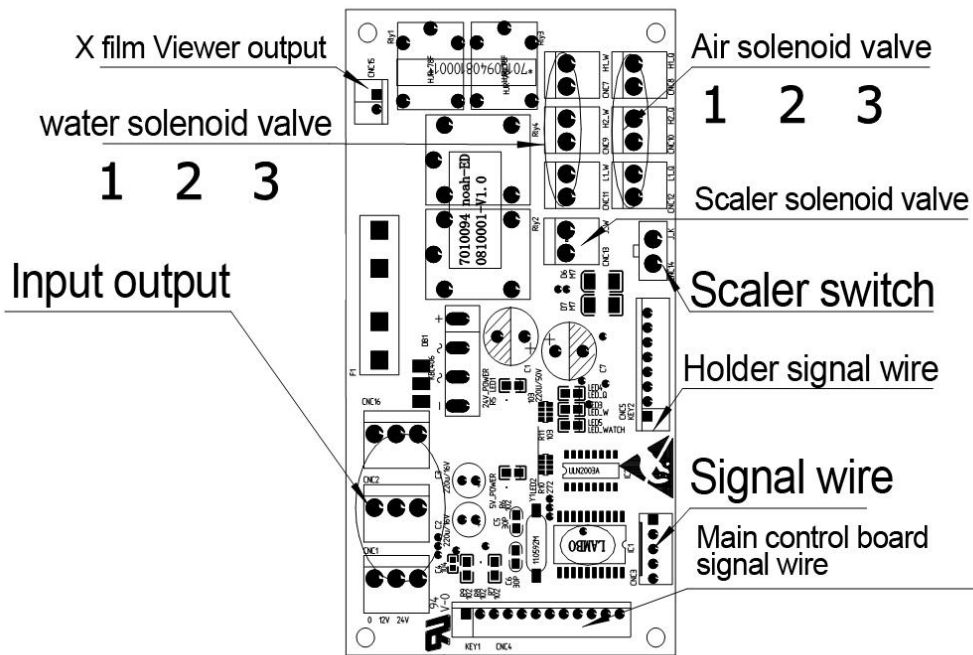
Take out the glass tip from the curing light, and then sterilized with the medical alcohol and the glutaric dialdehyde.
After sterilizing, packed it well.

● Connection

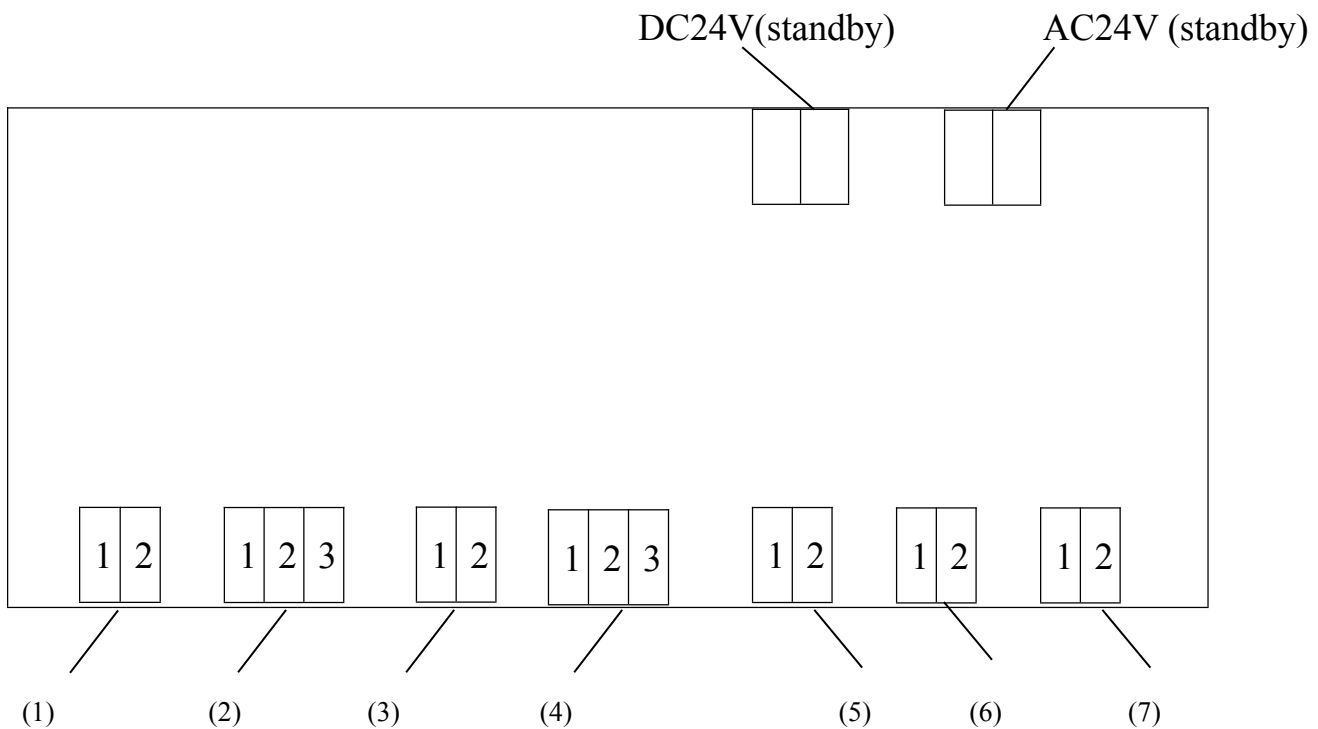
1. Programmed controller



2. Treatment board:



3. Electric circuit board for suction:



- (1) Weak suction switch.
- (2) Strong suction switch
- (3) Solenoid valve of weak suction
- (4) Solenoid valve of strong suction
- (5) Instrument tray DC24V

-
- (6) Pedal switch
 - (7) Input AC24V


● Operation of basic function key


I. Chair motion control


1. Manual Control

A: Control of Main Panel

Press “” button, chair move down until it is released.

Press “” button, chair move up until it is released.

Press “” button, backrest move forward until it is released.




Press “” button, backrest move backward until it is released.

B: Foot controller


The same as the control panel.

2. Automatic Control

A: Presetting Control

Press one of “”, “” and “” buttons, chair can move to presetting position automatically.

B: Original Position



Keep pressing “” button, chair can move to the lowest and the backrest move to the highest automatically.

C: Gargle Position



Press “gargle” button, the backrest move to the highest, press “gargle” button again, the backrest will stop, and press “gargle” button again, the backrest will move back to position before use or press other button for chair motion, it will go leave from gargle position.

Note:



3. Gargle water control

Press “” button, water outflow, and it will stop automatically when the time is up (the time is set before), and you can also press “” to stop it if you want.


4. Wash cuspidor

Press “” button, it starts to wash the cuspidor. and it will stop automatically when the time is up (the time is set before). And you can also press “” to stop it if you want.


5. Heat up control

Press “” button , it starts to heat up, the indicator light will be glittery at the same time, and it will stop automatically when the time is up (the time is set before), the indicator light is on only, if the temperature goes down , it will start to heat up automatically . Press “” button again, it will stop at once, the inductive light will be shut at the same time.

6. X-film viewer

Press “” button to control the X-film viewer.

7. Operation light

Press “” button to control the cold light.




Note: Once the system working in water, wash or heating enters in setting status, it will leave from the above position automatically.


●Parameters setting

1. Setting presetting position


A: Press “” button for 2 seconds. The indicator light is on, it means the chair is on the setting statue.


B: Set the chair to the position you want.


C: Press one of “” 、 “” 、 or “” to store the position you want.

D: Press “” button again ,the indicator light is shut down ,The position is save into p1、 p2、 p3.


2. Setting the wash outflow time (cup filler)

A: Press “” button for 2 seconds, the indicator light is on, it means the chair is on the setting statue.

B: Press “” button until the time you think is enough.

C: Press “” button again, the indicator light is shut down, the water outflow time of cup filler is stored.

3. Setting the wash cuspidor time

A: Press “” button for 2 seconds, the indicator light is on, it mesns the chair is on the setting statue.

B: 30 minutes: press the wash button once,

60 minutes: press the wash button two times,




Long time : press the wash button three times,

12 seconds: press the wash button four times,

C: Determine wash time and then press the “” button, the indicator light is off, the wash time will be stored.

4. Setting the Limited position of the chair:

Press set the chair to the highest position and also the backrest to the highest position.

-
- 4.1 Press the button “” for twenty seconds until the indicator light is on with glitter and you can listen the sound “du-du-du”. It means the chair is in the statue of setting the chair’ s Limited position.
 - 4.2 Press “UP” and “BU” buttons until the chair and its backrest are in the position you want.
 - 4.3 Press the button “”, the glittery frequency and rhythm of the sound will go faster and enter into the lowest position.
 - 4.4 Press “ON” and “BD”button to adjust the chair and its backrest to the position you want and then press “”to store it till the indicator is off to leave from the status.

Annex: 1. Before it come out in the factory, its limited position is already set well.

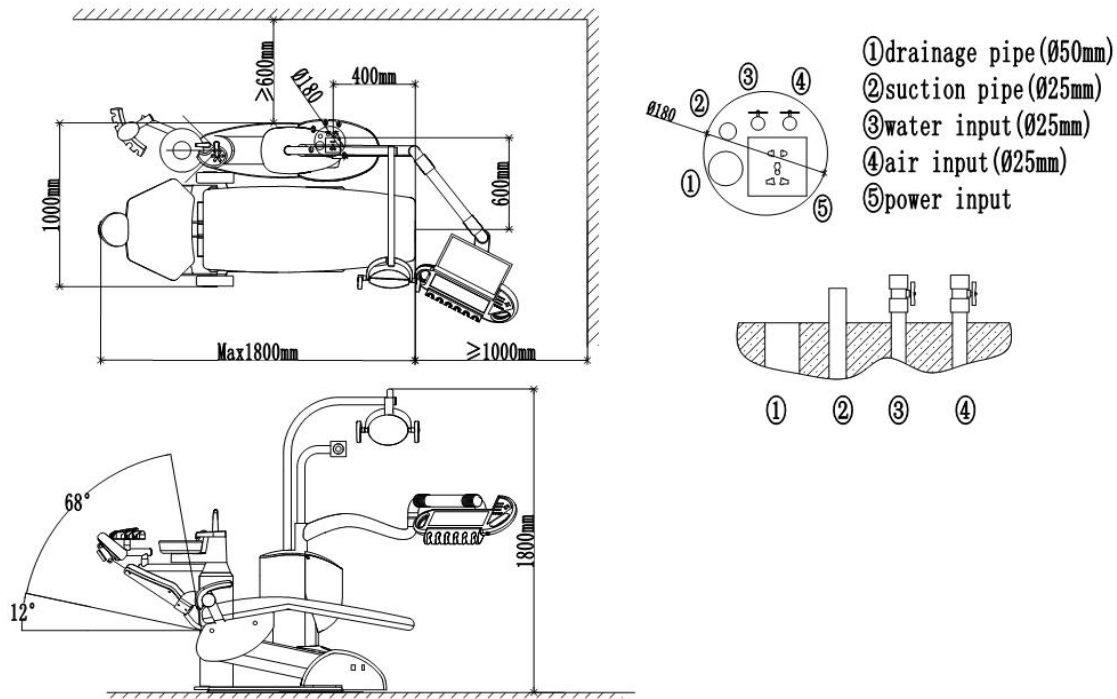
2. Press any button to stop the chair in motion.

3. All the parameter can be stored automatically once failure of electric power.

4. When the power is resupplied, it will appear no safety problem besides the operation is stopped temporarily. If you want it to continue to work, please restart it.

●Installation

Determine the location of equipment according to the general layout and lighting of the clinic room and the convenience of operation. Put the equipment on a clean, dry, ventilated and cool place and maintain a good operation environment. Be sure that the floor contracting with the bottom of the dental chair should be smooth, horizontal and stable. Under the floor where the ground box placed, the air input power and drain connector should be placed around 120*100mm. water and air input tube is about 15mm. Input wire shall be composed by the three cores with 1.5mm² plastic cover is 30mm beneath the earth, the protection ground wire should be connected. Detail refers to the installation diagram.



● Installation procedures

1. Unpacked check

Unpack the packing carton and check if the equipment is sound without any damage. Check if the accessories and spare parts are complete and sound according to the packing list. For any question, please do not hesitate to contact the manufacturer. (Note: Don't use the edge tools to unpack the package on the face of equipment to prevent any hurt on it.)

2. Dental chair installation

The dental chair should be installed on even and solid ground and keep the ambient clean, dry, ventilated and cool. Keep away the sunshine. Place the dental chair as planned. Since the stability of the whole machine has been the considered during its design and the installation ground is leveling, even and solid enough to prevent the incident from the uneven ground, no screw installation shall be under consideration. If uneven floor causes the rotation of equipment, take out four M10X16 hollow head set screws from the accessories and screws in four M10 tapped holes on the bottom of Dental chair and make the dental chair fully contract with the floor. Pay attention to the level of equipment and maximum value during adjustment and ensure the stability of equipment.

3. Installation of water and air supply and connection of pipes

Put the equipment in the desired installation position, turn two pipe connectors G1/2" of the accessories into the intake water pipe and intake air pipe respectively. Pay attention to sealing while making connection, to prevent air leakage and water leakage. Before the connection of pipes, discharge the water and air inside the equipment first, then remove dirt and impurity inside the pipes to prolong the service life of this equipment. Then use ϕ 8*5 1PU pipe of the accessories (Blue one is Air-pipe, transparent one is water-pipe) to connect with water source and air source. Pay attention to airproof and put the white plastic drainage connector to drainage pipe and make proper connection. Be sure of expedite water and air exhausting pipes.

4. Instillation of cold-light dental lamp

Connect the cable to the lamp arm through the lamppost and make proper connection. Then connect the cable connector on the lamp arm to the inserted pieces on the stand inside the treatment cabinet, put it into the stand, (Note: firstly take out the screw from the stand) assemble the lam pole on the stand and put the lamp arm on specific position, then place the decorative cover and fix the post with the screws. Be sure not to damage the cable. Take out cold light, release the screws and decorative ring on the lamp head. Put the lamp head into the lamp arm and connect the inserted pieces then fix it with screws. (as shown in figure 3.)

5. Connection to power source

Insert the power line into the power plug with grounding line or directly through output power source wire having protection of leakage switch. (Note: It must connect with grounding line.)

● COMMISSIONING AND OPERATION

1. High/ Low speed air-turbine handpieces

Connect the handpieces well upon the demand in its manual. Don't make it unload rotation or over voltage start. Connect water, air and power supply and check the pressure gauge on the floor box. The value should be 0.55~0.6 Mpa. If it is wrong, adjust the filter relief valve to maintain the said value. The way of adjustment is to open the floor box, pull the handle on the top of the filter relief valve up for about 10mm as shown in figure 4, turn the handle clockwise to increase the pressure and anticlockwise to decrease the pressure. Take the handpieces from the holder, step the pedal switch and turn the handpieces for operation. Be noted that the pressure indicated on the pressure gauge of the instrument tray is the operating pressure of the handpieces, which should be no more than the rated maximum pressure of the handpieces to protect the hand bur against damage (High speed: 2.0-2.5bar, Low speed: 3.5-4.0bar), see the figure 5. Adjust the operating pressure of handpieces if it is required by regulating the main control valve under the instrument tray. If it is required to adjust the working pressure of handpieces, turn the handle clockwise to increase the pressure and anticlockwise to increase the pressure. (as shown in figure 6)



Figure 4

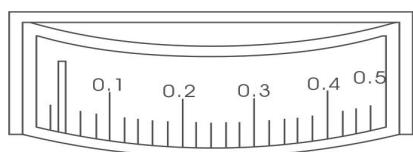


Figure 5

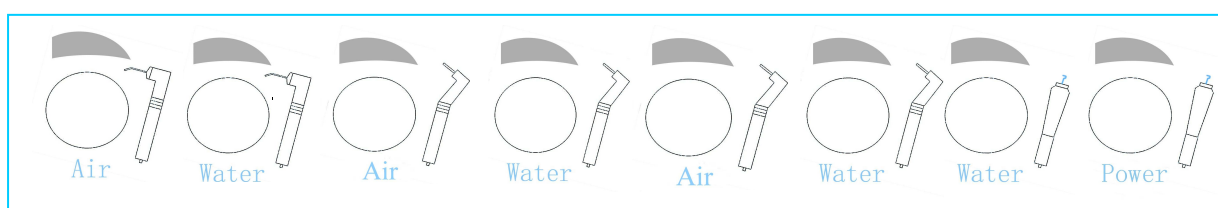


Figure 6 Controlled air-valve

2. Three-purpose spray gun

The water and air pipes of three-purpose spray gun shall be connected to the air and water connectors in the instrument tray. The transparent pipe is water one, blue pipe is air one. The gun's left button is for water and right for air).



3. Strong/weak saliva ejector

This equipment is fitted with two systems including strong and weak saliva ejector. Take the saliva ejector from the holder to start operation immediately. Weak saliva ejector is driven by the negative pressure from water flow, so water supply is required to connect to guarantee minimum working pressure required. Strong saliva ejector is driven by the negative pressure from air flow, so air supply is required to connect to guarantee minimum working pressure required.

4. Mouth rinsing water

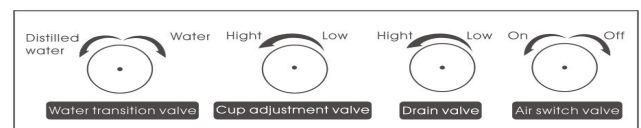
This equipment has auto thermostatic and water flow setting functions for Mouth rinsing water. The built-in auto thermostatic heater supplies warm water. Press the heater switch on the control panel if warm water is required as shown in figure 7. Water flow is controlled by the built-in computer control board and is preset by user freely.

5. Water heater

Press “” key on the main control panel to turn on the heater and flash the indicator. Then the heater is heating up its water. When the water is in the desired temperature, the heater will automatically stop heating and the indicator will be lightened meaning entering to working status. When the temperature is lower, the heater will heat up water automatically and the indicator flashes till the water is in the desired temperature. Such a spiral will be carried out to guarantee the water flown out with the desired water. If it is required to stop heating, press the “” key again to stop it and light off the indicator.

6. Water bottle

For the equipment provided with water bottle, water required for handpieces and all other instruments on the instrument tray is directly supplied by the water bottle. It is necessary to fill distilled water for medical purpose to the water bottle timely. Way of filling: Turn off the air switch by the water bottle to exhaust the compressed air inside the bottle. Hold the distilled water bottle with both hands, rotate clockwise to take off the water bottle, fill in water and rotate anticlockwise to tighten the bottle (sealed). Turn on the air switch to complete filling of water. (as figure 8)



7. Headrest

The headrest may be adjusted to different positions by **Figure 8** regulating the height and angle as shown in figure 9. The height of headrest can be adjusted by holding the pillow rack with both hands to slide it upward to the desired height. The headrest can be adjusted forward or backward to the desired position. Release round screws on the headrest, move the headrest to the desired angle or/and position and then fix the screws.

Note: Be sure to lock the headrest after regulation to prevent accident during operation.

8. Lift of dental chair

The dental chair is provided with two control systems. The movement of dental chair may be controlled either by the control panel or by the pedal switch with the same functioning. During the

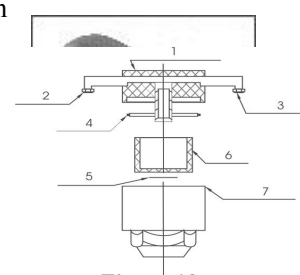


Figure 10

- 1 Casing of filter
- 2 Water inlet connector
- 3 Water outlet connector
- 4 Upper seal ring
- 5 Lower seal ring
- 6 Filter core
- 7 Filter cover

operation, pedal control systems can be used to adjust the chair upward or downward, forward or backward. Within the range, the chair can be controlled to any height and the backrest can also be adjusted downward to the desired angled. (Note: Upward presetting switch is valid only if the chair is in presetting status. As movable parts are provided with the dental chair and the treatment unit is connected to the movable parts of the dental chair, the treatment unit will move upward or downward with the dental chair. Therefore, it is necessary to ensure enough moving range for it during the movement of the equipment to prevent against accident.)

9 .baseboard switch

take-up combined set jam on baseboard,
combined set at a moment's notice employment.

1. pedal
2. water
3. air
4. cuspidor water
5. cup water
6. position key



● OPERATION RULE AND MAINTENANCE

1. After adjust the pillow rack, ensure it is locked before it is used.
2. Regularly cleanse the water filter as figure 10.
3. Power supply is 220V ± 10%.
4. Before or after use, the handpieces shall be aimed to cuspidor and spraying for 3-4sec., exhausting the dirt back-siphoned by the end pipe of handpieces to prevent cross pollution.
5. Cut the power supply before replace the wearable component and cleanse, maintain the equipment.
6. Should close the cold light, when it is not used.
7. After working for some time, cold light would appear floating light on the surface of cold mirror and affect the light's performance, so it shall be cleaned by three way spray gun or wet soft cloth regularly. (Note: Don't scrape the mirror)
8. Regularly check the pressure of the air storage tank of the air compressor and drain the water.
9. The equipment is on intermittent system, so please cut the power supply without being used for a long time or after the work.
10. Clean the equipment everyday and use spray wax to treat soft cushion regularly.

Note: Neutural agent shall be used to clean to avoid any damage on the surface of dental chair. During the operation, don't leave any corrosive agent on its surface, otherwise, it will cause the damage beyond remedy.

11. Clean drainage pipe: pour much water from cuspidor to wash all the dirt in the pipe.
12. Clean strong/weak suction: it shall be cleaned every time after use. That is to absorb much water by strong/weak suction once. Weak suction trash cup and weak suction generator shall be cleaned at least twice per week.
13. Pay attention to all the joint position, if it appears no smooth performance or zizizi sound, please fill lubricant.
14. Fill lubricant after or before sterilization of handpieces in high temperature. Without machine needle, don't rotate it. Pay attention to working pressure of handpieces and make proper adjustment if necessary.

● Prohibition, notice, warning and reminding instruction

1. Before use, read carefully and learn about all the content in manual.
2. During operation, comply with all the warning and instruction in the equipment.

3. Power plug line shall be disassembled upon standard and the grounding line shall be secured.
4. Don't turn on the switch of heater without water supply.
5. Instrument tray can't be overloaded.
6. Its pressure shall be preset during ex-factory, incompetent personnel can't adjust it.
7. Its limited position has been fixed, incompetent personnel can't adjust it.
8. Cut water, air and power switch after work.

● Reason and handling method of common malfunction

Trouble	Method	Disposal
Work system not reaction	The power supply not open: boat-like switch not open.	Check power supply, open main power switch
Strong/weak suction not work	Electromagnetism valve was burnout, pipe and generator were blocked.	Change the electromagnetism valve, clean out the pipe and generator
Cold light not open	The bulb is broken and joint position is released to cause bad contact	Change the lamp bulb and repair and strengthen the joint.
Water heater not heat up	The relay of control electrical panel not work. No power supply output, heating stick broken, temperature sensor losing control or insensitive.	Check and repair relay, change the heating stick, temperature sensor or heater.
The H.P not work	Control valve not open, the pressure too low	Change the pressure to 0.6Mpa, change valve.
X-film viewer not light	Power not open, or the light was broken	Check the power, change the light
Scaler not work or no cold water supply	Adjust valve not open, water controlling electromagnetism valve not turn on	Open the adjust valve clockwise and check the power of electromagnetism valve

● Replacement of wearing parts

1. Fuse

The fuse is in the ground box, the exchange process is as follows: Cut the power supply at first, than screw the fuse seat counter clockwise, and take the fuse, replace a new one and screw down clockwise.

2. Water filter

To ensure the proper use of the treatment machine, a water filter is set in the water entry in the ground box to filter the impurity of the water (as shown in figure 10) . After a long time use, the impurity may block the filter core and influence the current and pressure. To cleanse it or change the core is a must.

(1). Under the following situation, please cleanse it or change the core:

- ① Use if for and above half-year.
- ③ Filter water is contaminative
- ② Pressure losing in the filter core at 0.1 Mpa.
- ④ Exceed water is turbidity.

(2). Cleanse or change filter core process: Open the ground box, take off water filter, counter-clockwise turn on the cover of filter, take out seal ring and filter core in turn for clean or change. After that, install the filter in the opposite order

and pay attention to sealing it.

3. Air filter pressure reducing valve

To ensure the input pressure is stable, clean and dry, an air filter pressure reducing valve is installed in the air entry of the ground box. It can keep the air pressure stable, limit it under the setting value and filter the impurity and water in the air. The water filtered will fall and collect in the filter cup. After a certain time, the water should be discharged to avoid affecting the filter.

Under the following situation, please drain the air filter pressure reducing valve:

- ① Use it over one week.
- ② The water in the cup occupies 3/4 of the cup's dimensions.
- ③ The color of the water in the cup is change (not transparent). The drainage process of the air filter decompress valve is: First cut the power supply, open the ground box, use the finger or some tools to press upward the blow off valve on the bottom of air filter pressure reducing valve, the water will be discharged. After water was blown off, release it.

4. Rack switch

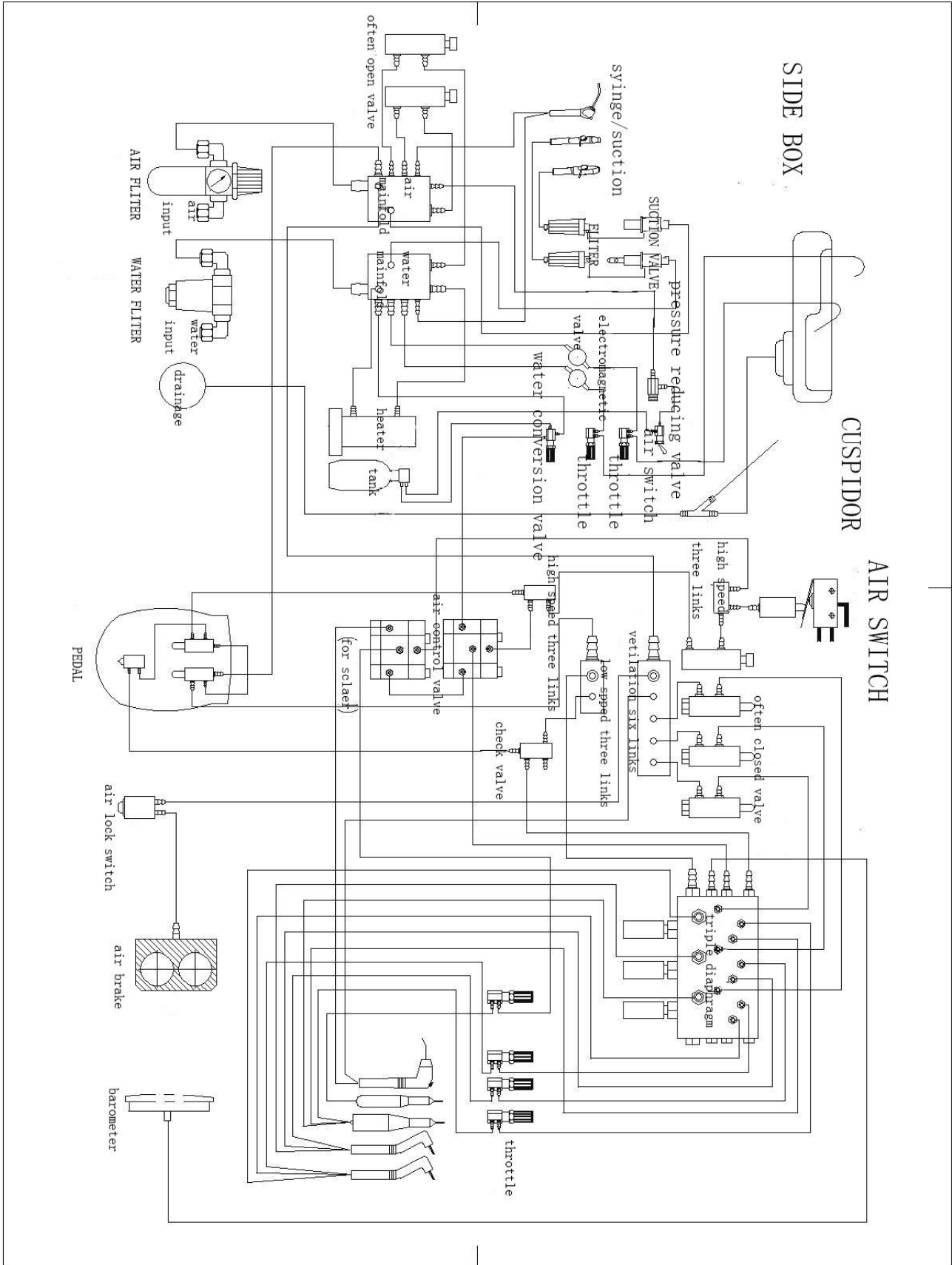
Rack switch is installed in the rack and fasten it with screws. The distant of the connect point can be adjusted. Under normal situation, handpieces, strong/weak ejector is inserted in the rack then close the switch and cut the electromagnetic valve power and close the valve to cut water and air supply. If the handpieces and strong/weak ejector inserted to the rack can't cut air and water supply to appear water and air leakage, the contact of the rack switch should be moved outward to check whether it can lock the valve or broken. If it is broken, please change it.

5. Electromagnetic valve

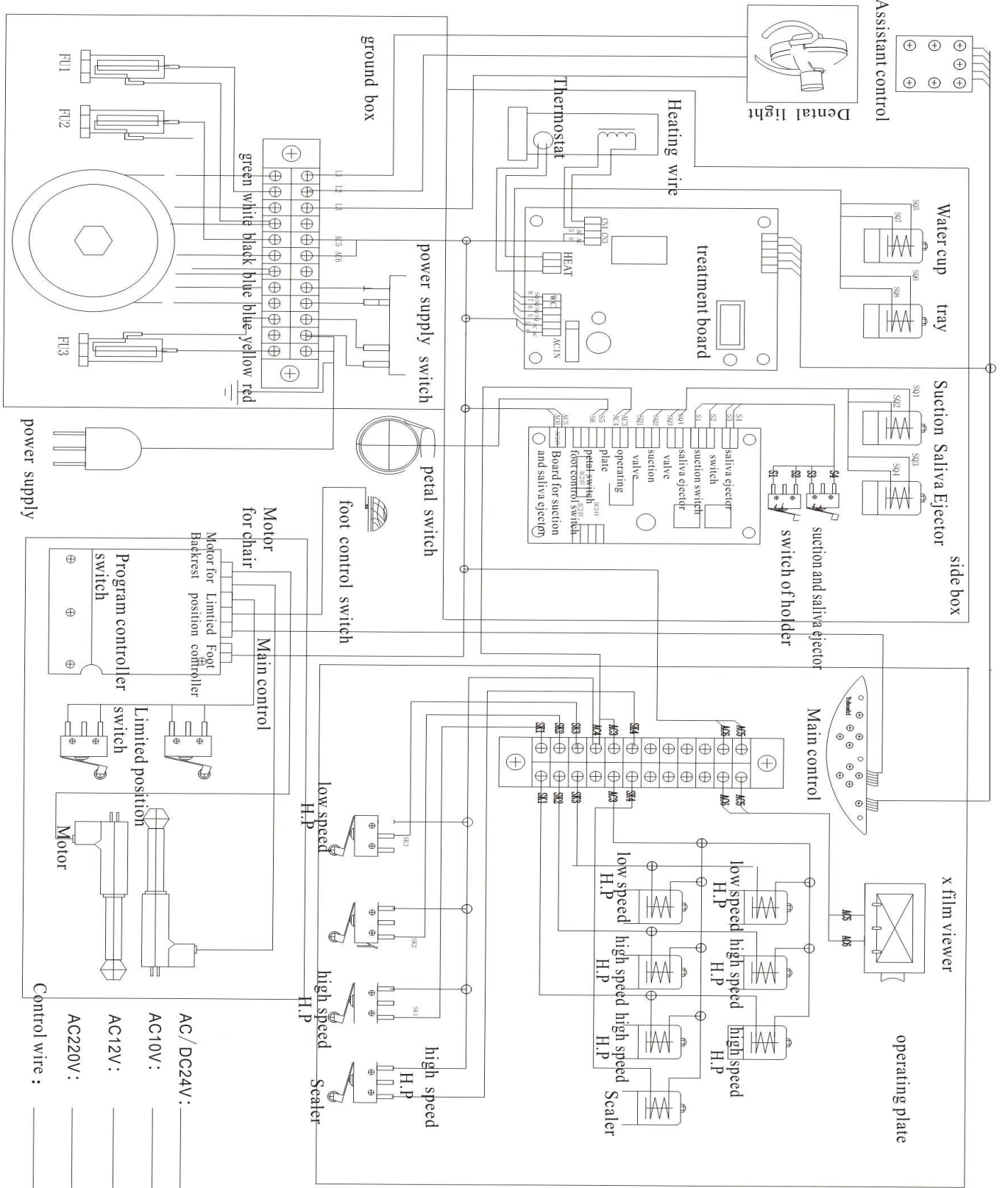
Electromagnetic valve is used to control water and air supply with electricity. Under normal condition, take handpieces and strong/weak ejector and open electromagnetic valve to supply water and air or vice versa. If it appears water and air leakage without taking handpieces or strong/weak ejector, electromagnetic valve shall be removed and the dirt in its core shall be cleaned.

● Water and Air Diagram

Air control



Electricity control



● Circuit Diagram

without memory position

