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Installation manual of AJ15 US dental chair

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Product service

If you want to get service information, please contact the local dealer authorized by ADS company. Technical support tel: 800 488 9708

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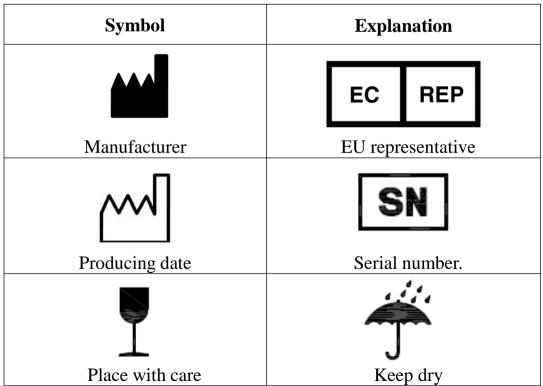
1 Introduction

1.1 Product information

- Name: Dental chair
- Model: AJ15US
- Working conditions:
 - (1) Ambient temperature: 5 °C \sim 40 °C;
 - (2) Relative humidity: $\leq 80\%$;
 - (3) Air pressure: 12.5~15.4psi;
 - (4) Nominal voltage: AC110 V \pm 22 V;
 - (5) Nominal frequency: $60 \text{ Hz} \pm 1 \text{ Hz}$;

1.2 Symbols explanation

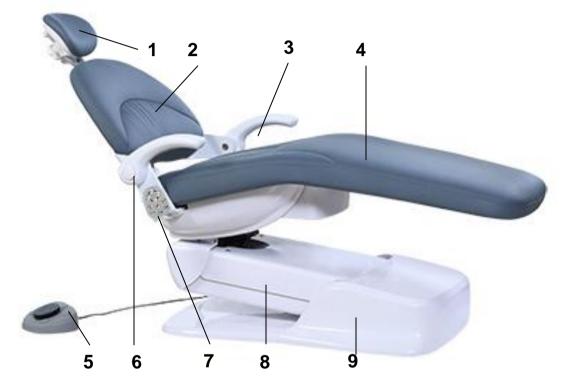
Table 1



Symbol	Explanation
Res	
Refer to attached document	Notice
Avoid electric shock	Backrest Down
Ground protection	Backrest Up
\bigcirc	<+
Original position	Chair Down
P	Chair Up
LP	(P1)
Spitting position	Program Chair Position 1
Program Chair Position 2	Program Chair Position 3

2 Composition

AJ15US dental chair (figure 1) combined with new design concepts, provide a good balance for usability, simplicity and comfortability.





Item	Component	Item	Component
1	Headrest	6	Armrest button
2	Backrest	7	Touch pad control panel
3	Armrest	8	Lifting arm
4	Seat	9	Junction box
5	Foot control		

3 Parameters

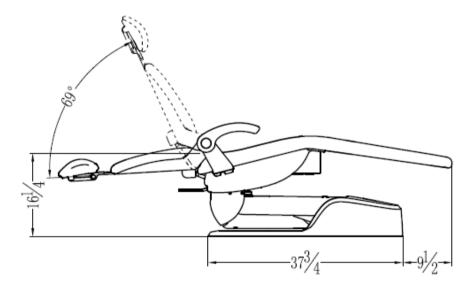
3.1 Specifications

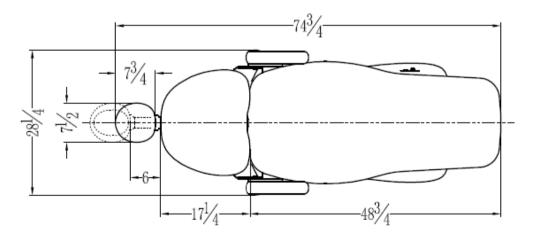
Load bearing

Patient bearing: Max 135kg

Tip: Specifications are subject to change without notice.

3.2 Size (unit: inches)





4 Preparations

4.1 Attentions

Before install the unit, you should:

- Clear all the debris in the room, and clean the floor thoroughly.
- Apply two manually operated valves for the air and water source.
- Exhaust the dirty water and air before connecting.
- May have no necessity to use all the component described in this document when installing. Components should be evaluated before installation.

Before install the unit, please read the manual carefully:

- Input voltage AC110 V , 60 Hz.
- Make sure the dental unit is in good grounding.
- All the electrical components and connections should be made by an authorized technician.
- Only fuse and accessories recognized by ADS technician can be used.
- his device should not operate in the environment of high temperature, high humidity, vibration ,flammability, unbalance, or dusty.
- Only the authorized spare parts can be used in this device.
- This dental unit should not come into contact with any object in its operational range of movement.
- This device can not be used in the environment of strong magnetic, electromagnetic.

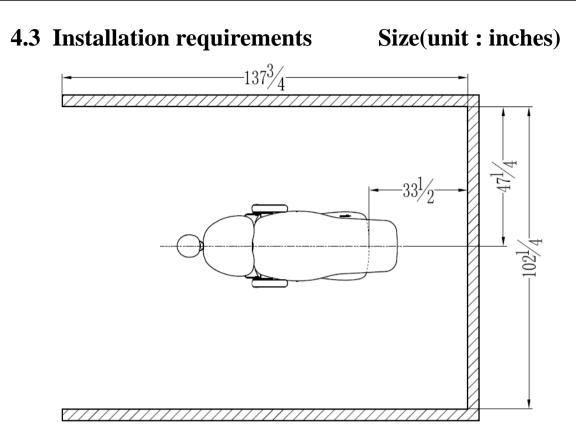
Leather maintenance:

- No organic solvent or alkaline detergent (such as: gasoline, alcohol,etc.), or the leather will crack, be smelly or fade;
- No exposure, keep the room in good ventilation (exposure can cause the leather crack, bad ventilation lead to go mouldy);
- Mention the patient to remove edged tools(like keys)before operation, to avoid scratch the leather.

4.2 Tools recommended

The tools and instruments need to prepare before installation.

	Electrical drill	SE C	Pincers
	Hammer		Scissors
	Leveling instrument		Flat-bladed Screw driver
s (E)	Phillip screw driver		Allen wrench
5	Spanner	and the second se	Hexagon socket wrench



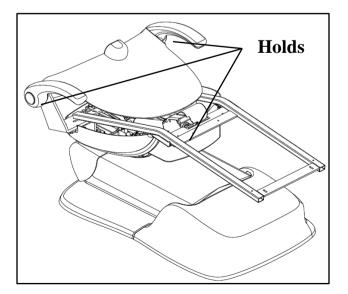
Note: Sizes above are the minimun that required.

5 Installation

5.1 Place the chair

1. Remove all debris and cardboards around the chair.

- Hold the handrail and the front of the frame, uplift the chair and place the chair on the right place.
- **3**. Remove bunding belt and packages.

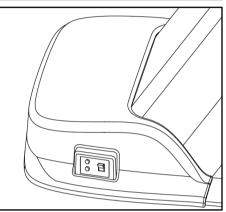


5.2 Fix the chair



Attentions: 1.The chair must be fixed on the floor for ensuring stability, for it can be seriously damaged by wrong fixation. 2.Check out the material of the floor on the installing place. Please contact the authorized contractor to thickening the floor if its thickness is less than 82 mm.

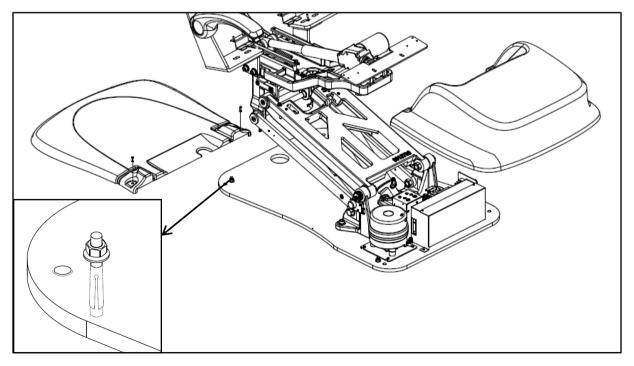
- 1, Power on and activate the unit.
- 2. Step the button on foot control, raise the unit.
- Unit switched off and power disconnected.



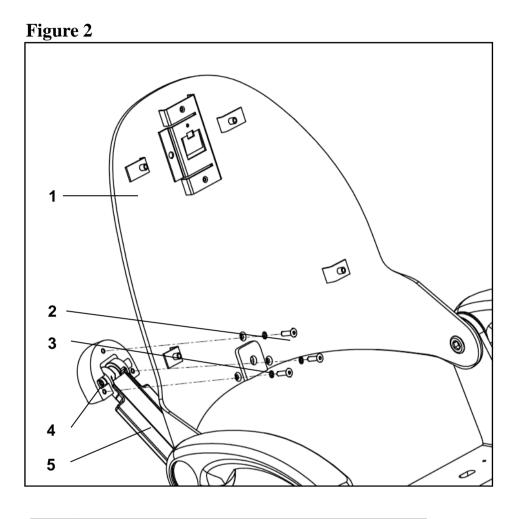
4, Remove the cover and mark the installing position , then move the unit away.

Drill on the marked position, press the explosive bolt, then return the unit to its

position and tighten the screw.



5.3 Install the backrest

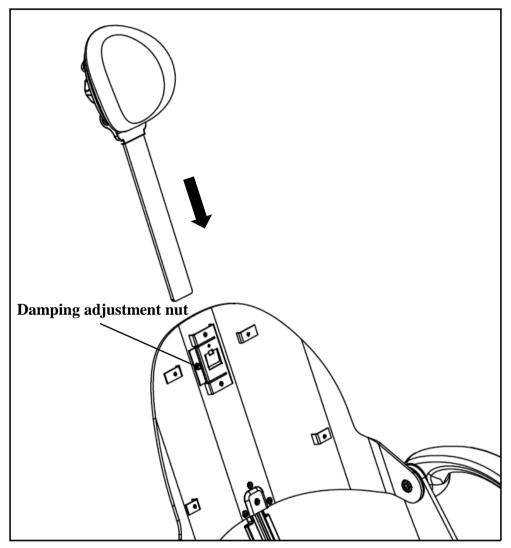


1	Metal backrest	
2	M6*20 Hexagon socket cuntersunk screw	
3	M6 External teeth lock washer	
4	Head of the push rod	
5	Push rod	

Pass the M6*20 cuntersunk screws through the M6 lock washer, then fix the push rod head on the backrest by the M6 cuntersunk screws.

5.4 Install the headrest

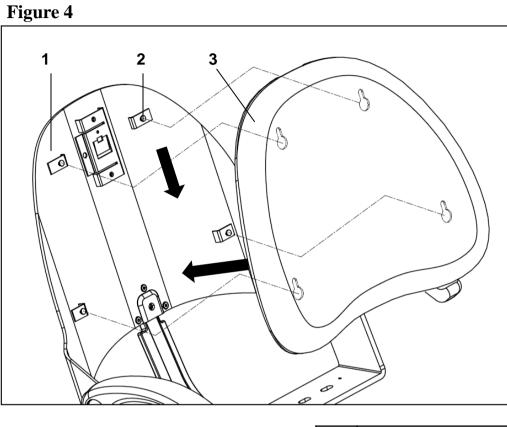
Figure 3



Install the headrest

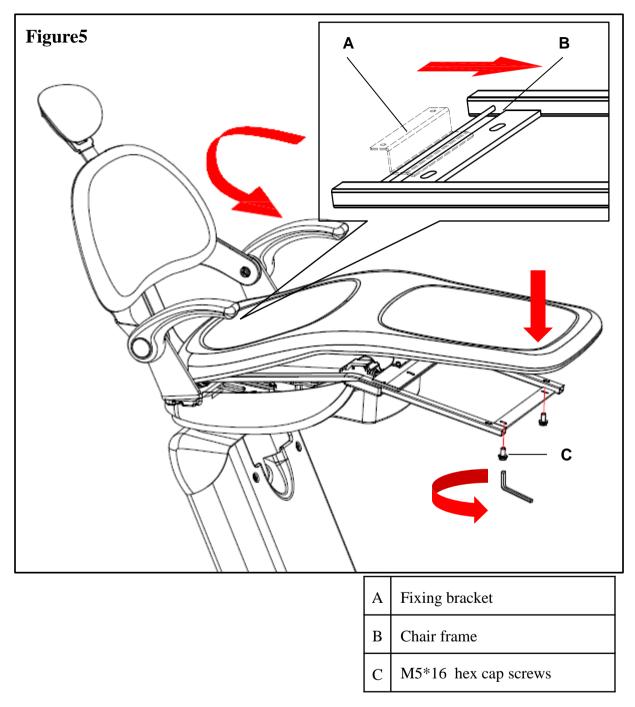
- 1. Push the headrest glidebar into the slot of the backrest.
- 2. Adjust the nut to get proper damping force.
- 3.Install the upholstery onto the bottom plate.

5.5 Install backrest upholstery



1	Metal backrest	
2	Fixing shaft	
3	Backrest upholstery	

When installing the upholstery, you should put the upholstery on the backrest with the shaft head pass through corresponding keyholes of the upholstery, then push the upholstery in force till it's fixed.



5.6 Install the seat upholstery

Install the seat upholstery

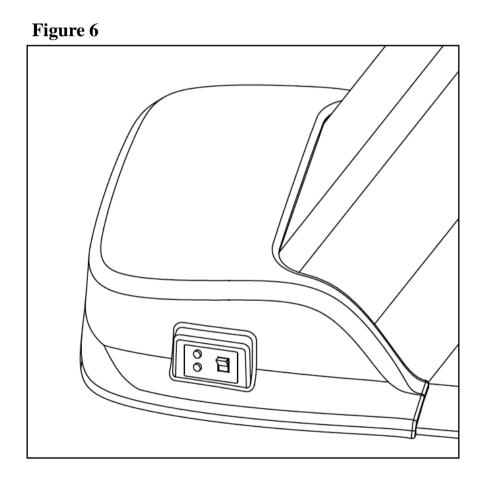
Put the upholstery onto the chair frame, lock the bracket and the rear end of the chair frame together, and tighten the two screws on the front end of the chair frame.

6 Operations

6.1 Power

The power switch of the power box controls power supplying of the dental chair and its delivery system.

Switch on and you can get the power, switch off for not using in a long term, or before maintenance .



6.2 Chair positioning

You can operate the chair manually or by foot control.

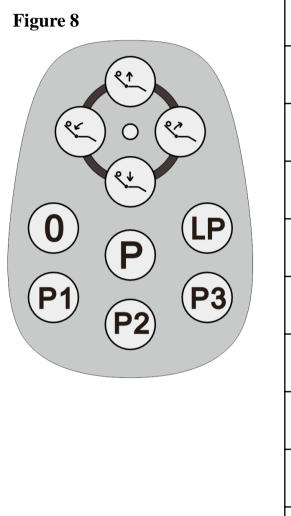
6.2.1 Operate by foot control

Raise or low the chair by pressing base up/down button, step on the up/ down arrow on the foot control till the chair is in desired position. Move the backrest by pressing backrest up/down button, step on the left/right arrow till the backrest is in desired position.

Figure 7



(0)	Original position	
	Program Chair Position 1	
2	Program Chair Position 2	
P	Set	
LP	Spitting position	
	Backrest down	
	Backrest up	
	Chair up	
	Chair down	





0	Original position
P ₁	Program Chair Position 1
P_2	Program Chair Position 2
P ₃	Program Chair Position 3
P	Set
LP	Spitting position
(* <u>*</u>	Backrest down
~~	Backrest up
<* <u>+</u>	Chair up
<*	Chair down

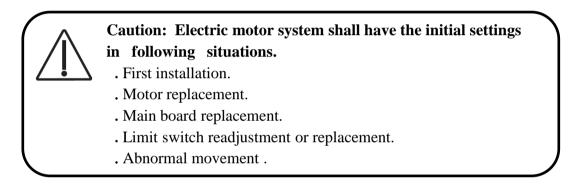
6.2.3 System state

If the indicator light is bright on the control panel, it indicating that the system is normal, and you can operate normally.

6.2.4 Initial settings of the chair

Electric motor system initial settings specification:

Press the "O" button on the main control panel of dentist unit to descend the chair motor till the lower limit switch is triggered, raise the backrest motor till the higher limit switch is triggered. System initialize automatically ,it can be normally performed after initialization finished .



Hydraulic system initial settings specification :

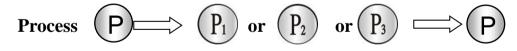
1、 Press "P" button about 12 second until the buzzer sound 2 short beeps(the indicator flashes twice and then illuminates), enter original setup status;
press P1, the buzzer sound 1short beep(P light off), escape setup status.
This steep eliminates the original stroke parameters.

2、Press "0" button about 12 second until the buzzer sound 2 short beeps, (the indicator flashes twice and then illuminates), enter initial setup status, press the four moving chair button to make backrest up and press "0", and then press the four moving chair button again to make chair up to the highest and the backrest is on the lowest. At this time, press "LP" and then finish the setting. Caution: Hydraulic system shall have the initial settings in following situations:
 First installation or replacement of mainboard.
 Insert/replace/repair any position feedback potentiometer or wiring.
 Reset or replace the limit switch..
 Reset the motion range of the chair.(Disabled to move or cannot move to desired position.)

Attention:

When setting up the system, do not extend the maximum range of the cylinder t prevent the hydraulic pump from not working properly.

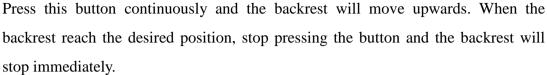
6.2.5 Initial setting description



- Move the chair and backrest to the working position, and adjust dental light to the desired condition (On or Off), press the "P" button (3s), the indicator light is on (beep 1 time), (loose button so as not to enter the original setting state), enters the setup procedure.
- Press the "P1" button, and then press the "P "button one time again,(beep1-2times), setup finished and escape the setup procedure.
- P2, P3 position setup are same step as the P1.

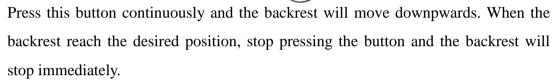
6.2.6 Chair positions description

a. Backrest Up



NOTE: If you press the button continuously, when the chair backrest reach the limit position, it will automatically stop the movement.

b. Backrest Down



NOTE: If you press the button continuously, when the chair backrest reach the limit position, it will automatically stop the movement.

c. Chair up

Press this button continuously and the chair will move upwards. When the backrest reach the desired position, stop pressing the button and the backrest will stop immediately.

NOTE: If you press the button continuously, when the chair backrest reach the limit position, it will automatically stop the movement.

d. Chair down

Press this button continuously and the chair will move downwards. When the backrest reach the desired position, stop pressing the button and the backrest will stop immediately.

NOTE: If you press the button continuously, when the chair backrest reach the limit position, it will automatically stop the movement.





e. Original position

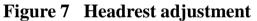
Press the button, the chair and backrest will move to the original position automatically(Original position : backrest highest, the chair lowest) and light off. Press this button again, the chair returns to former position and light on. The chair shall stop at a new position by halfway stop.

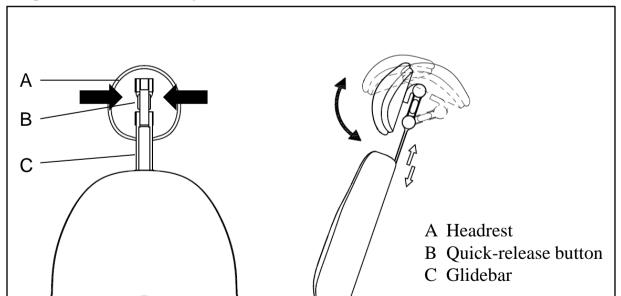
f. Spitting button



Press the button, the chair and backrest will move to spitting position automatically(Spitting position : backrest highest , the chair is still) and light off . Press this button again , the chair returns to former position and light on. The chair shall stop at a new position by halfway stop.

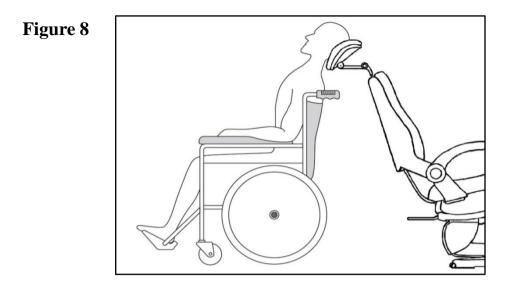
6.3 Dual articulating headrest





- Press the quick-release buttons to adjust rotation angle of the headrest.
- Headrest extension length : 0-150mm.

Installation manual of AJ15 US dental chair



Fix the headrest for a wheelchair:

1. Backrest of the dental chair is fully raised.

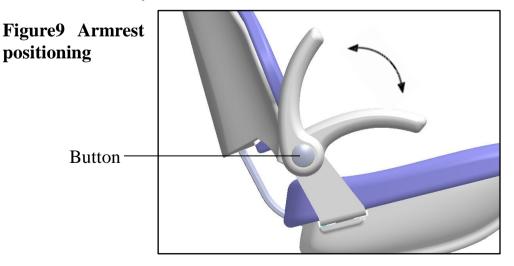
2. After reposition the headrest ,raise or descend the chair to adjust heights. Patient's position should also be adjusted to put the wheelchair and dental chair back to back together.

3. Make sure the wheelchair is locked.

6.4 Armrest

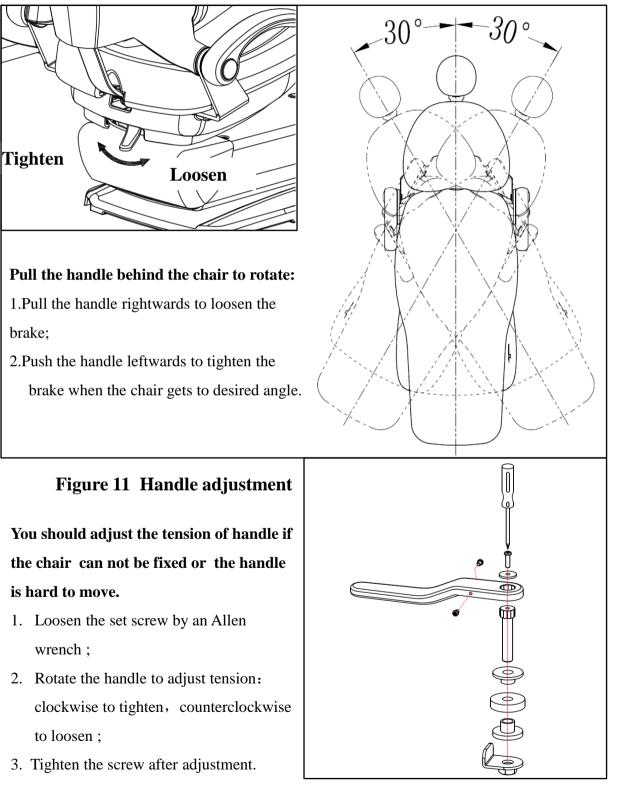
The armrest is easy to operate ,which provides convenience to users .

Press the button you can rotate the armrest forward or backward .



6.5 Chair rotation

Figure 10 Chair rotation



7 Regulation & maintenance

7.1 Remove the upholstery

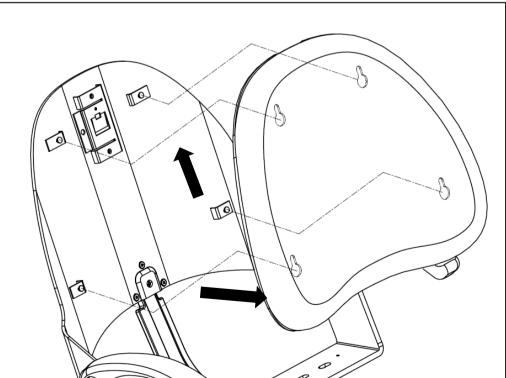
The special design of upholstery is easy to remove and replace .They are installed on backrest, seat and headrest of the chair .

Backrest upholstery

To take off the upholstery from backrest, you should hold the bottom edge of gasket firmly and lift it up (1 inch or 25 mm), then lift the upholstery from the backrest of the chair (Figure 15).

To reinstall the upholstery, you can put the keyhole of gasket on nail head, then push till the gasket is fixed.

Figure 15 Remove the upholsterv

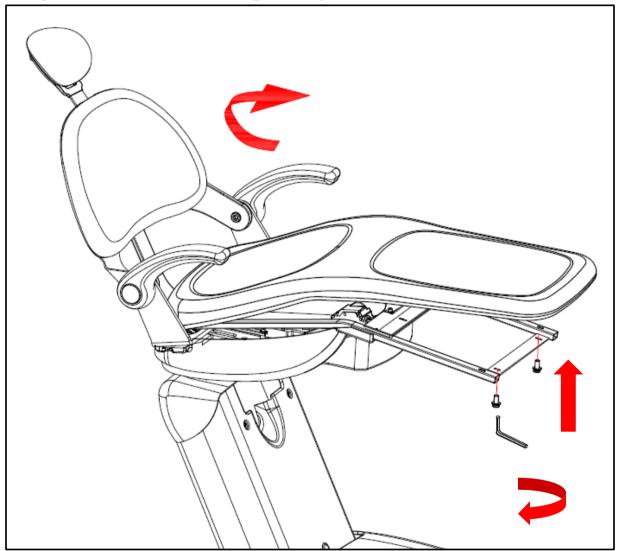


Seat upholstery

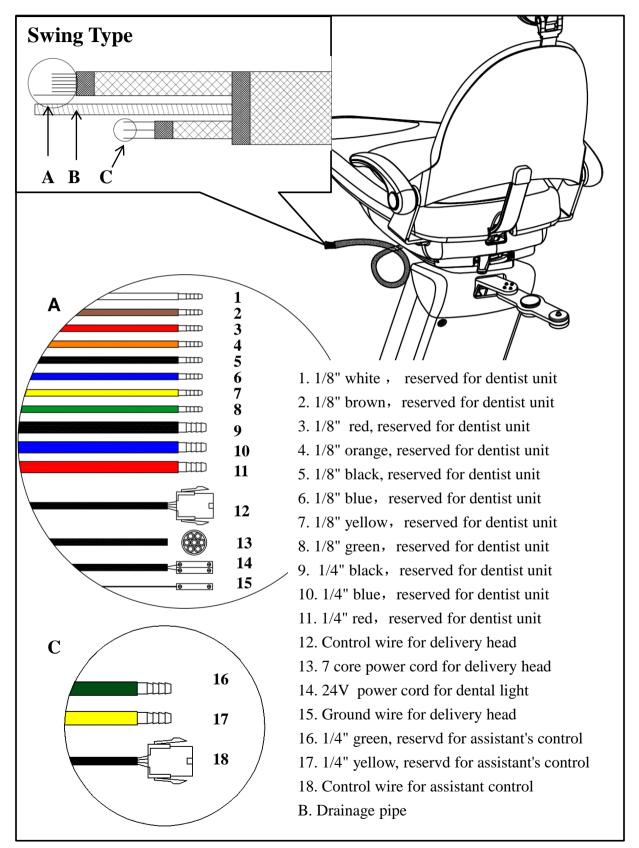
Loose the screw at the front end of the upholstery, push the upholstery

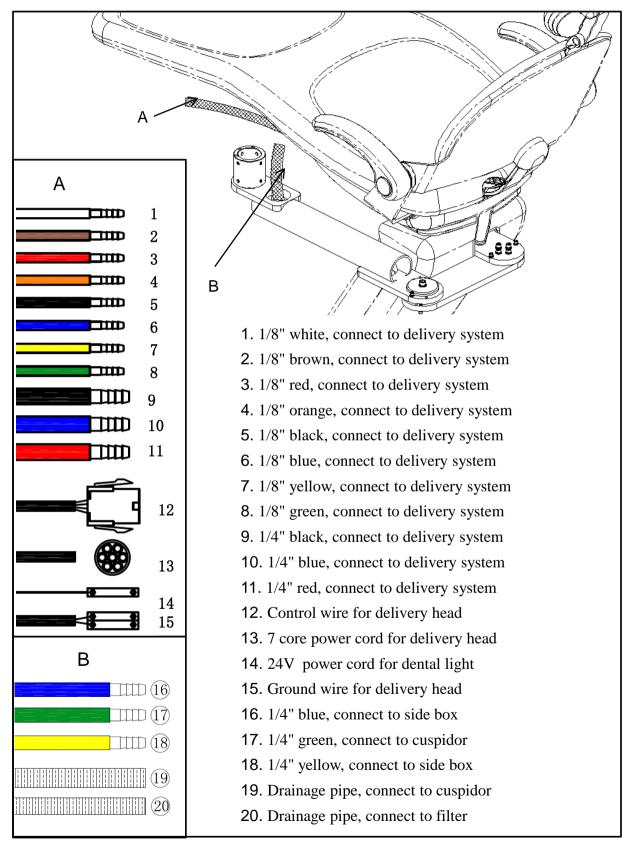
forward, then remove the seat upholstery.

Figure 16 Remove the seat upholstery

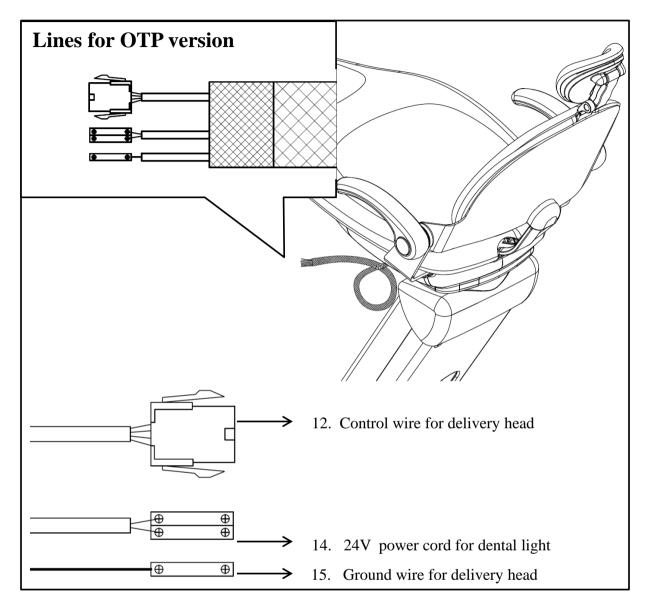


8 Reserved lines





Lines of Classic201



9 Maintenance & sterilization instructions

Touch surface & transfer surface

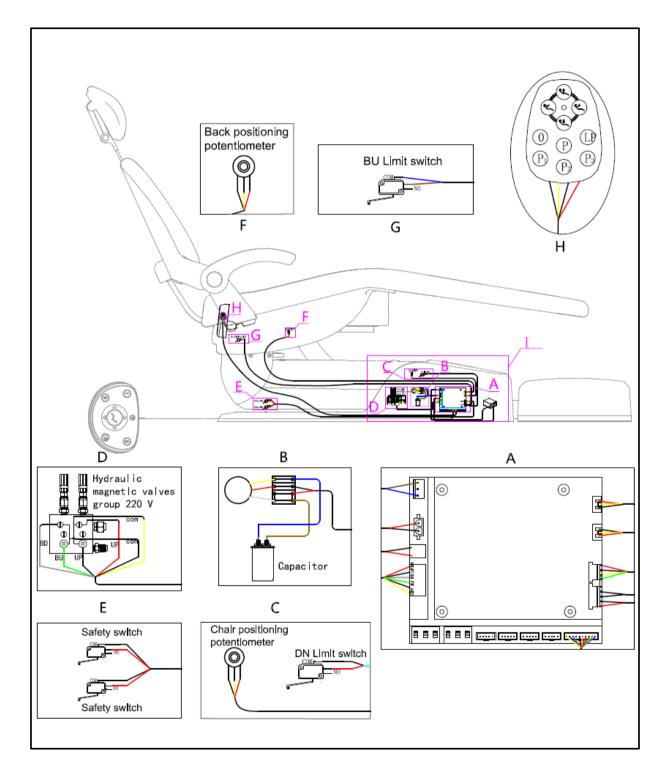
Touch surface refers to the surface area that need contact in dental treatment while can be potential cross contamination points.

Transfer surface refers to the surface area that contaminated from contacting with the instruments or other inactive object.

ADS company recommends isolating protection for all applicable touch surfaces and transfer surfaces. The partition used must be a plastic film approved the Food & Drug Administration. The plastic films should be taken off and discarded after the treatment of each patient.

9 Connecting diagrams

Connecting diagram (Hydraulic system)



We reserve the right to make any alterations which may be due to technical improvements.





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