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# **Installation manual of AJ17US dental chair**

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The document is intended to be used in conjunction with the equipment.

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# 1 Introduction







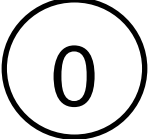







## 1.1 Product information

- **Name:** Dental chair
- **Model:** AJ17US
- **Working conditions:**
  - ① Ambient temperature: 5 °C ~ 40 °C ;
  - ② Relative humidity: ≤ 80% ;
  - ③ Air pressure: 86 kPa ~ 106 kPa ;
  - ④ Nominal voltage: AC110 V ± 22 V ;
  - ⑤ Nominal frequency: 50 Hz ± 1 Hz ;

## 1.2 Symbols explanation

Table 1

Symbol	Explanation
 Manufacturer	 EU representative
 Producing date	 Serial number.
 Place with care	 Keep dry

Symbol	Explanation
 Refer to attached document	 Notice
 Avoid electric shock	 Backrest Down
 Ground protection	 Backrest Up
 Original position	 Chair Down
 Set	 Chair Up
 Spitting position	 Program Chair Position 1
 Program Chair Position 2	 Program Chair Position 3

## 2 Composition

**Figure 1 AJ17 US Dental Chair**



<b>Item</b>	<b>Component</b>	<b>Item</b>	<b>Component</b>
1	Headrest	5	Seat
2	Upper backrest	6	Foot control
3	Lower backrest	7	Lifting arm
4	Armrest	8	Junction box

### 3 Parameters

#### 3.1 Specifications

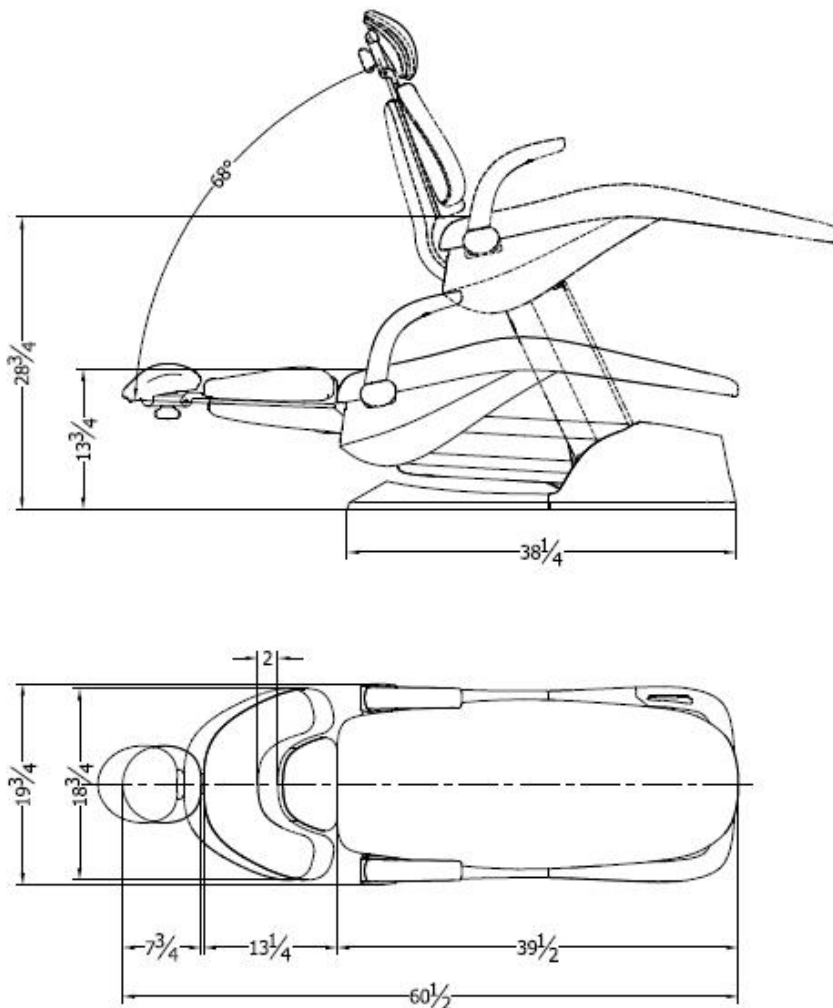
**Load bearing**

Patient bearing: Max 300 pounds (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:**



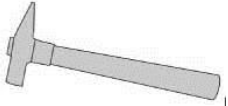
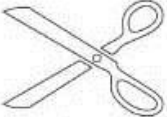
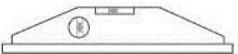





- Input voltage AC110 V ,50/60 Hz.
- Make sure the dental unit is in good grounding.
- All the electrical components and connections should be made by an authorized technician.
- Only fuse and accessories recognized by ADS technician can be used.
- his device should not operate in the environment of 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.

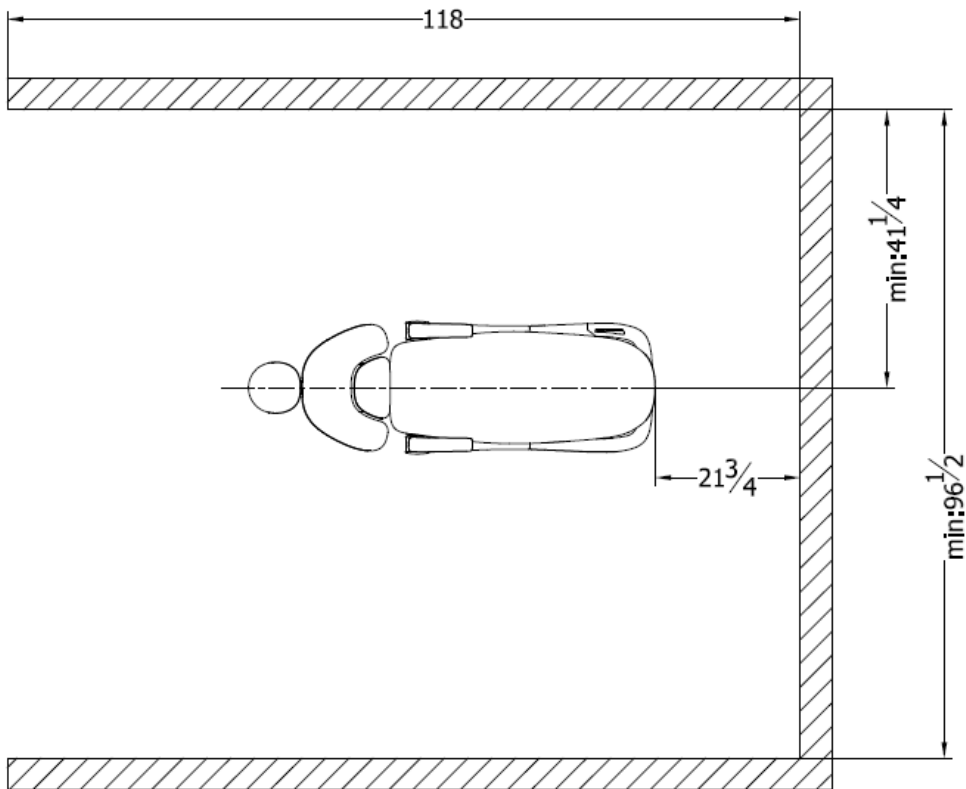
## 4.2 Tools recommended

The tools and instruments need to prepare before installation.

	Electrical drill		Pincers
	Hammer		Scissors
	Leveling instrument		Flat-bladed Screw driver
	Phillip screw driver		Allen wrench
	Spanner		Hexagon socket wrench

### 4.3 Installation requirements

Size(unit : inches)



Note: Sizes above are the minimum that required.

## 5 Installation

### 5.1 Place the chair

1. Remove all debris and cardboards around the chair.
2. Hold the handrail and the front of the frame, uplift the chair and place the chair on the right place.
3. Remove binding belt and packages.

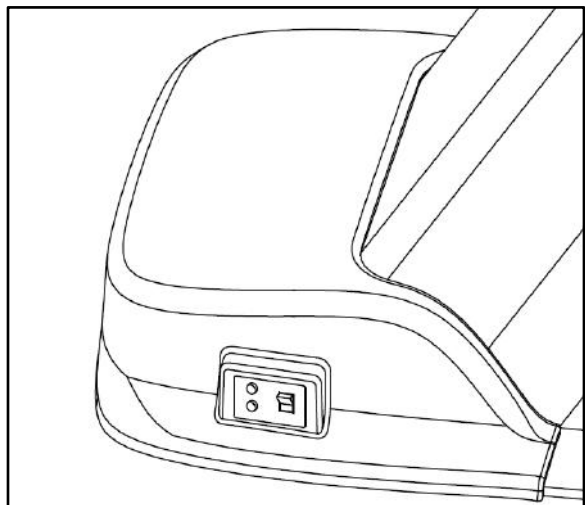
## 5.2 Fix the chair




**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.**

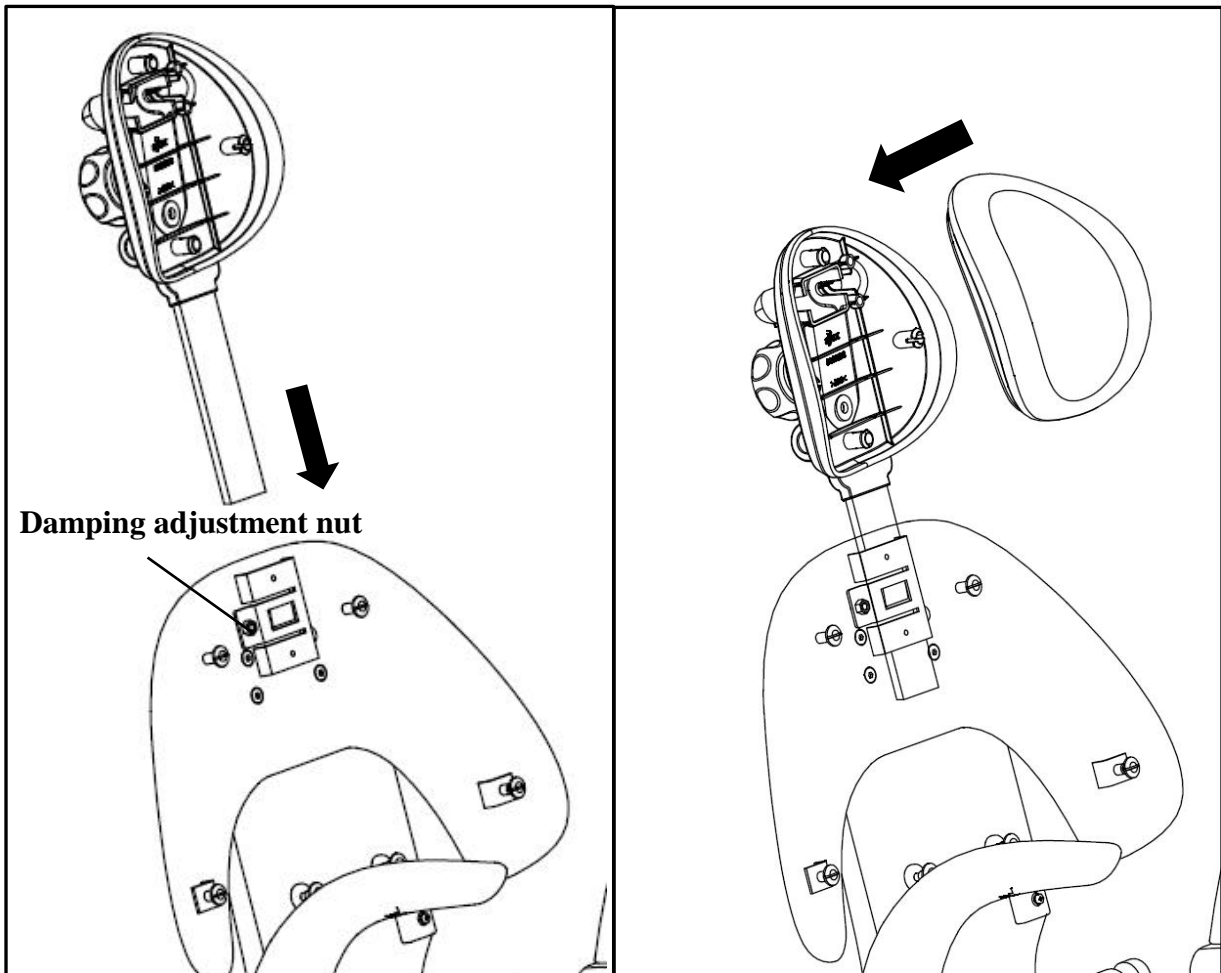
**Figure 2**



- 1、 Power on and activate the unit.
- 2、 Step the button  on foot control , raise the unit.
- 3、 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 headkrest

Figure 3

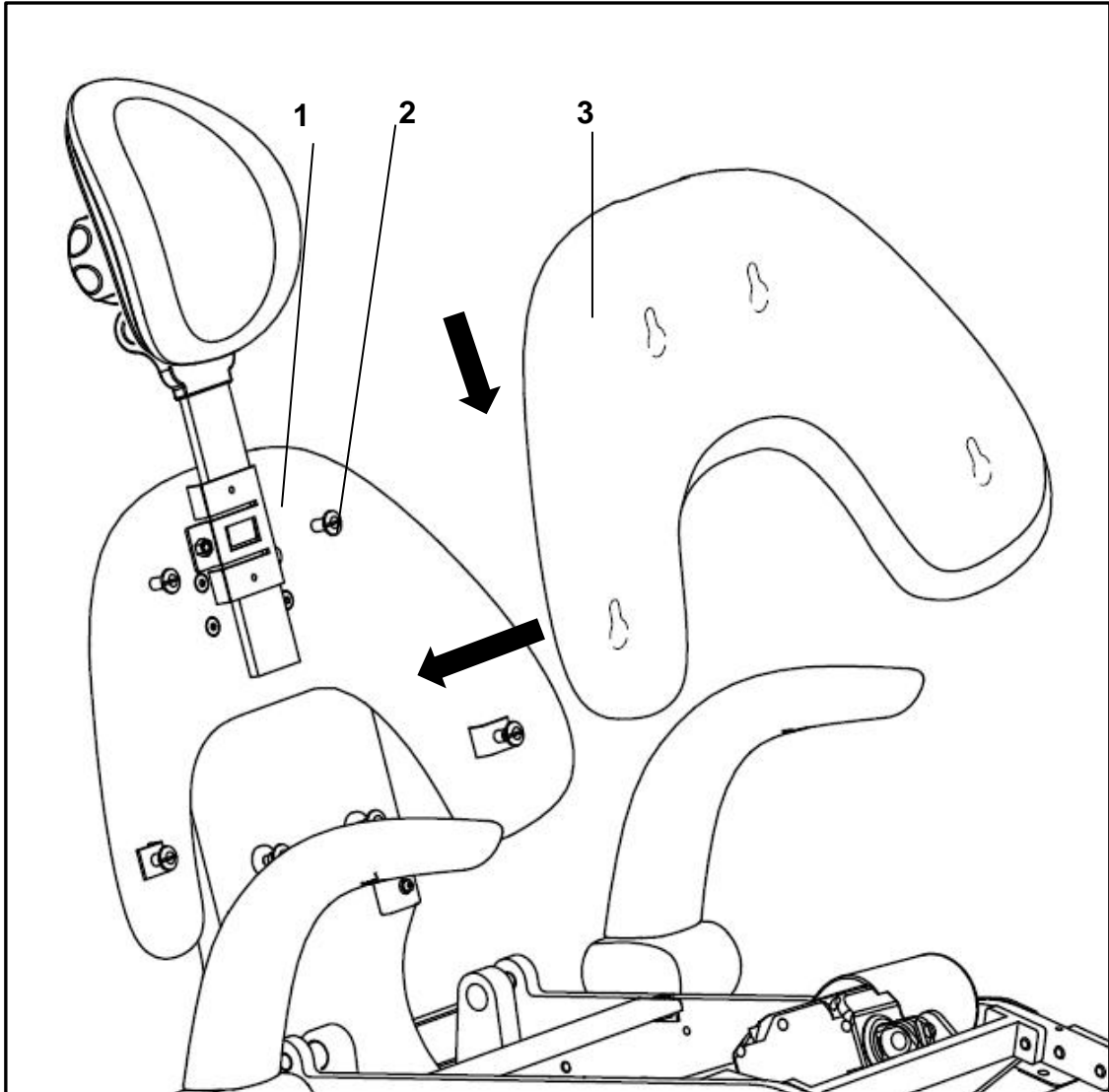


### Install the headkrest

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.

## 5.4 Install the upper backrest upholstery

Figure 4



1.Metal backrest

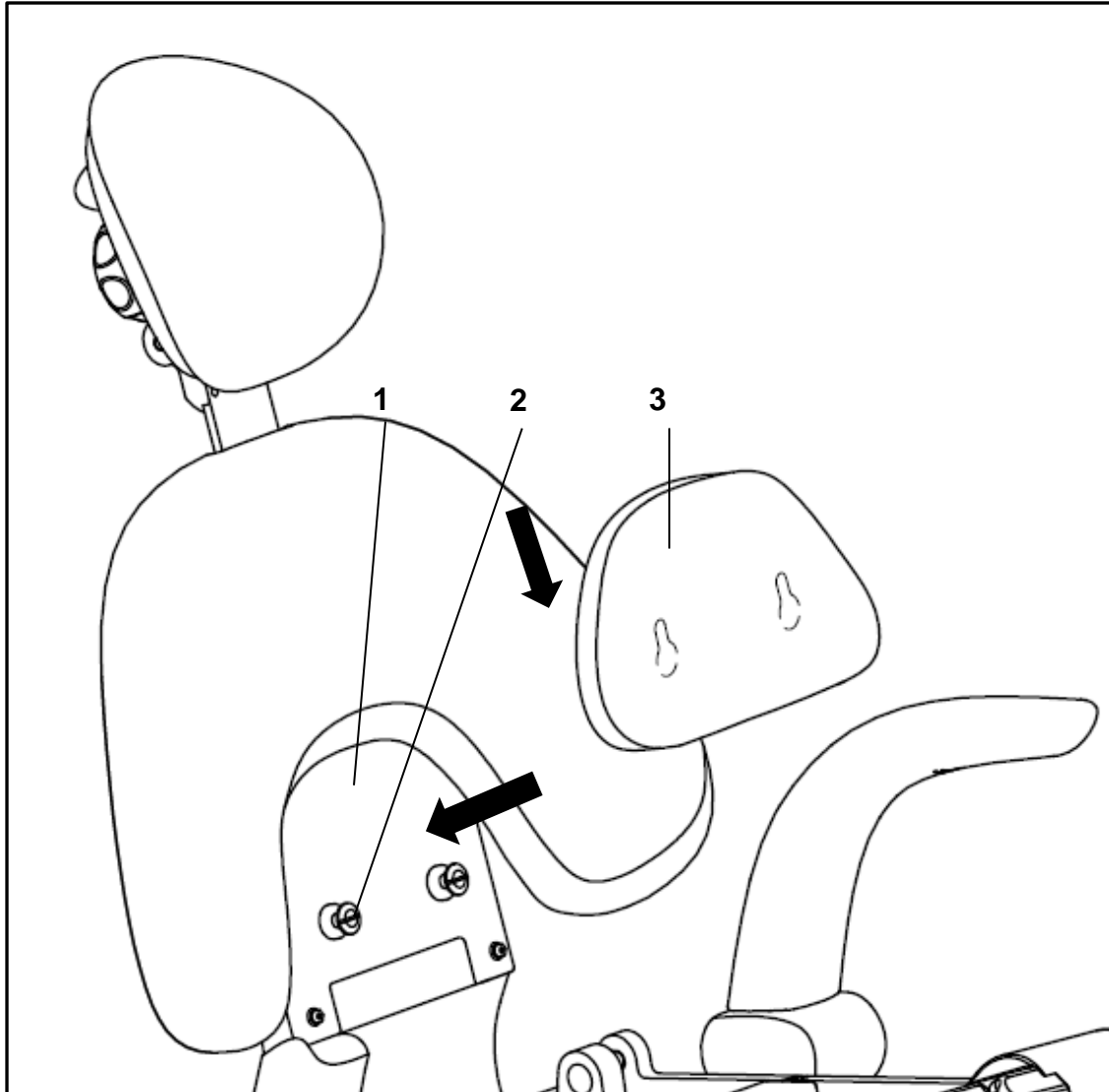
2.Fixing shaft

3.The upper 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.

## 5.5 Install the lower backrest upholstery

Figure 5



1.Metal backrest

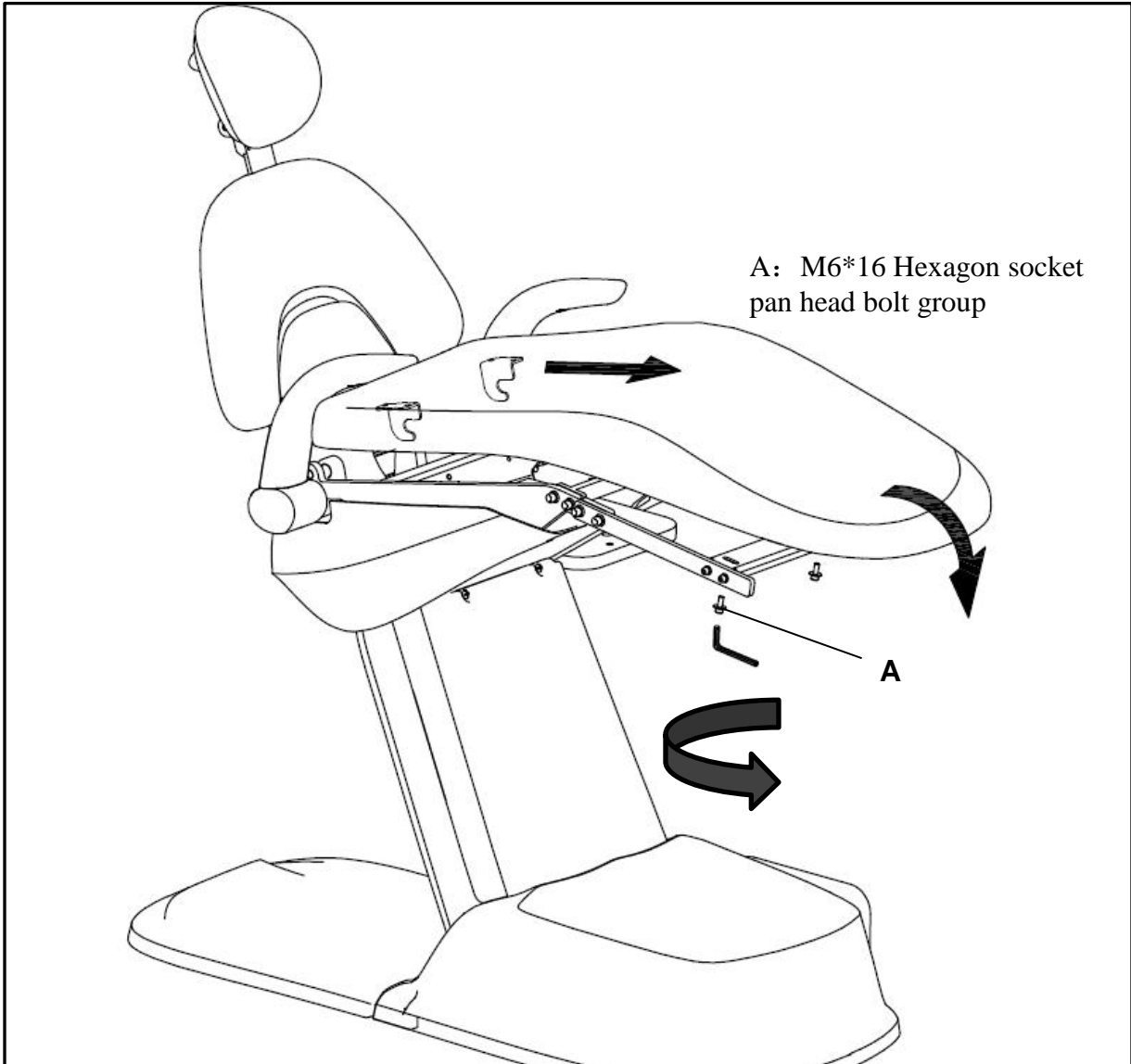
2.Fixing shaft

3.The lower 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 seat upholstery

Figure 6



### Install seat upholstery

Put the upholstery onto the chair frame, let the chair frame get stuck in the grabs that on the rear bottom of the upholstery, and fix the upholstery by two M6\*16 screws.



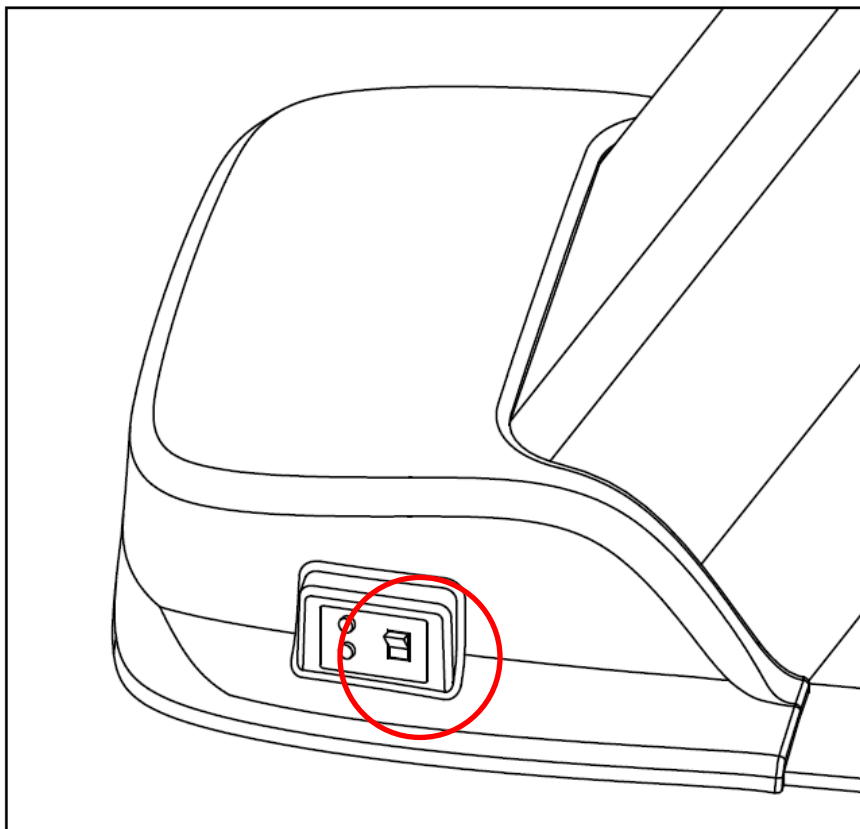
## 6 Operations

### 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 .

**Figure 6**



## 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 best position. Move the backrest by pressing backrest up/down button, step on the left/right arrow till the chair is in best position.

**Figure 7**



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

## 6.2.2 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 .



**Caution: Electric motor system shall have the initial settings in following situations.**

- . First installation.
- . Motor replacement.
- . Main board replacement.
- . Limit switch readjustment or replacement.
- . Abnormal movement .

## 6.2.3 Settings of programming memory position



- 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.

## 6.2.4 Chair positions description

### a. Backrest Up



Press this button continuously and the backrest 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.**

### b. Backrest Down



Press this button continuously and the backrest 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.**

### 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.

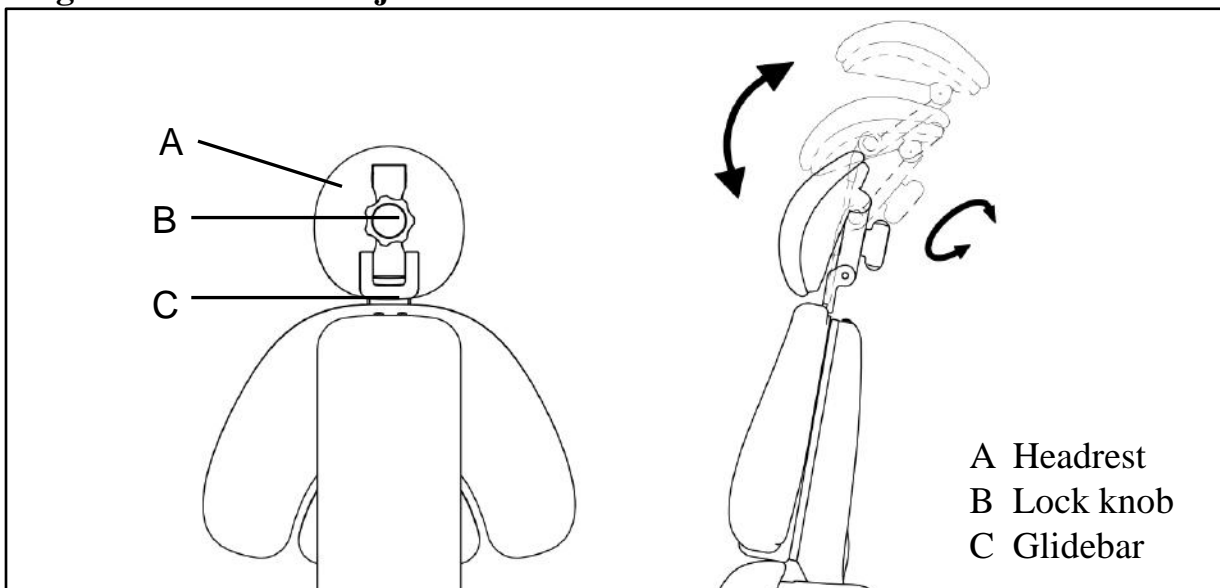
## f. Spitting button



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

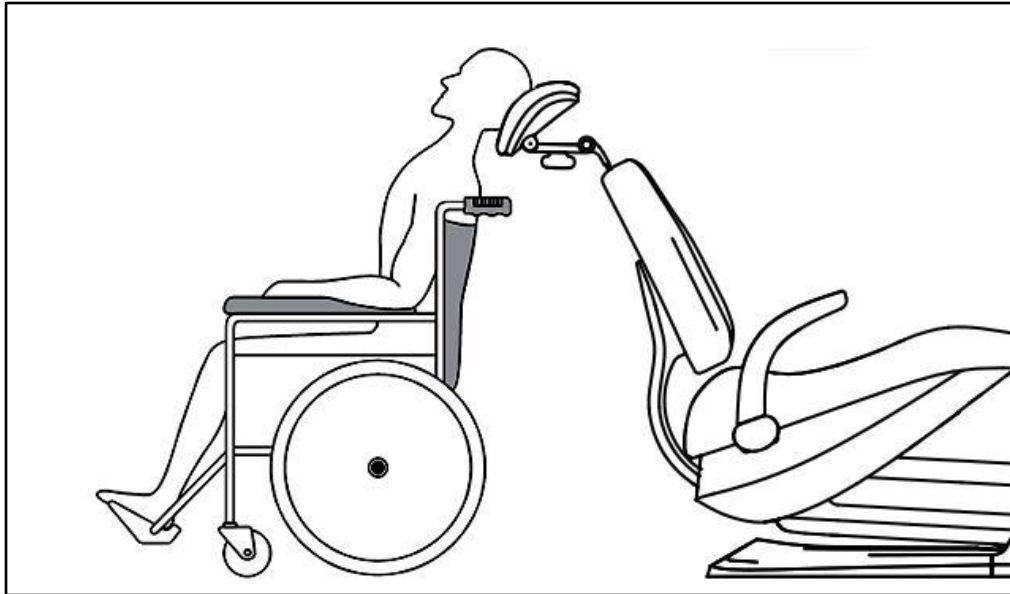
Figure 8 Headrest adjustment



**NOTE:**

Please fix the headrest after adjustment to avoid patient's head not being settled.

**Figure 9 Fix the headrest for a wheelchair**



**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.

## 7 Regulation & maintenance

### 7.1 Remove the upholstery

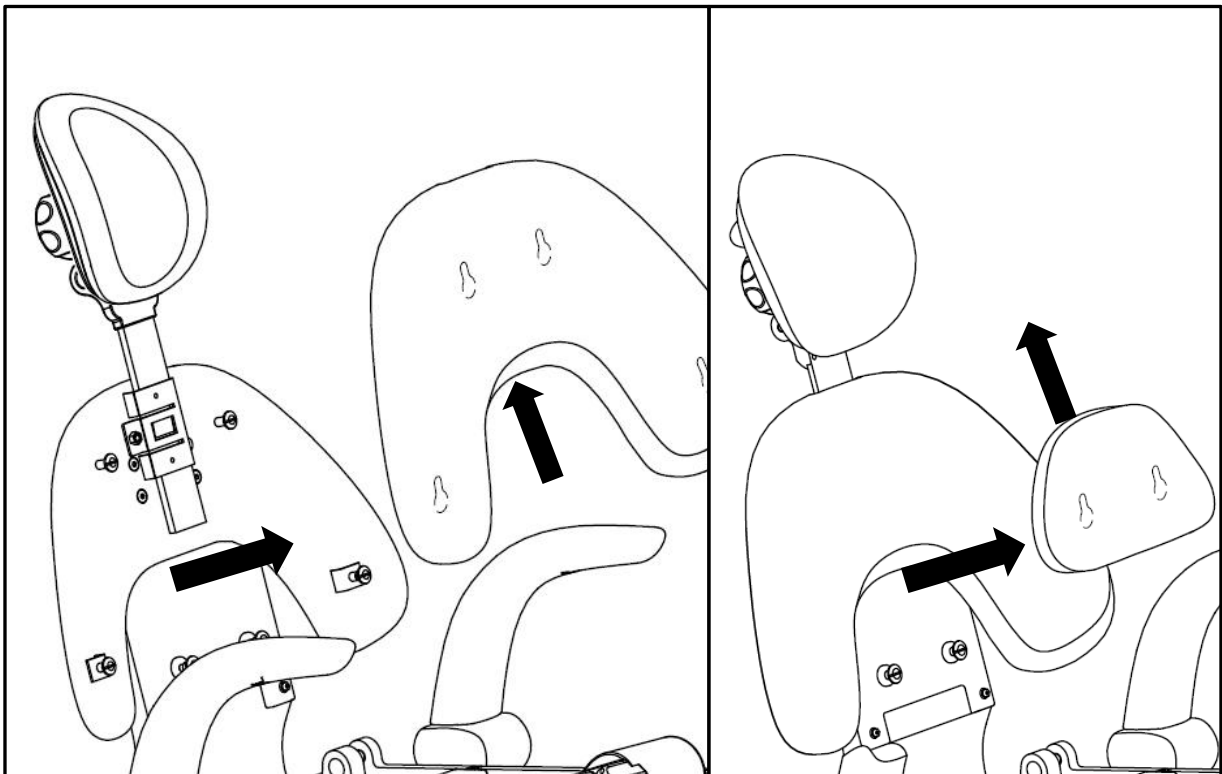
The special design of upholstery is easy to remove and replace .They are installed on backrest, seat and headrest of the chair .

#### 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 ( Figure14).

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

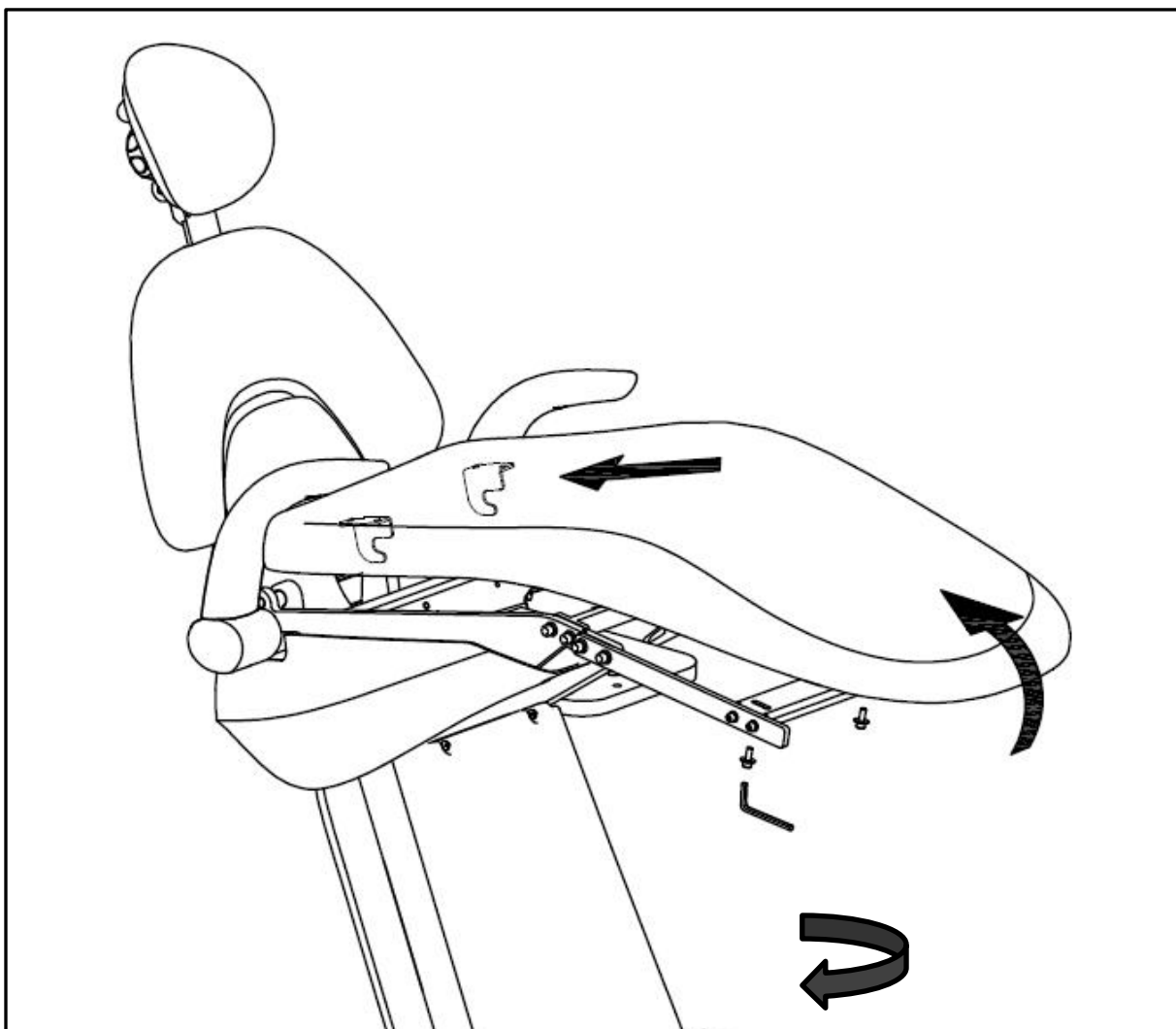
**Figure 14 Remove the upholstery**



Seat upholstery

Loose the screw at the front end of the upholstery, push the upholstery forward, then remove the seat upholstery.

**Figure 15 Remove the seat upholstery**





## 8 Upholstery Maintenance Instruction

The upholstery provides users unparalleled comfort, excellent aesthetics and reliable quality. The upholstery has a one-year warranty on defective materials and workmanship. This instruction ensures a longer life of the upholstery if it is properly maintained.

### Cleaning

Users can clean the upholstery with mild solution, non-ionic detergent, water or cleaners without alcohol, bleach or ammonia. Do not use abrasive cleansers or tools which can permanently damage the surface of upholstery.

### Disinfection

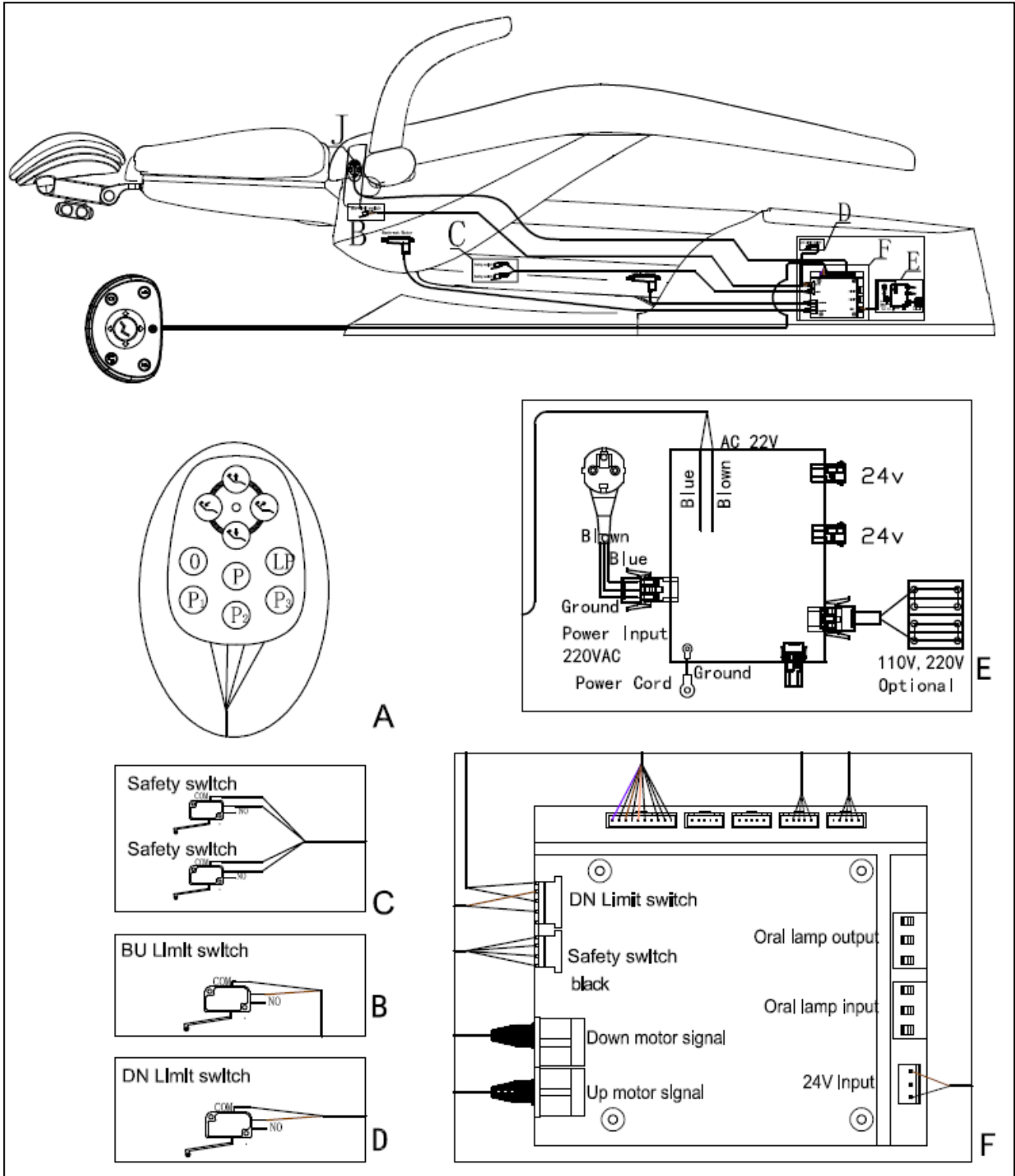
The dental system suggests disinfecting the leather once a month with a 3% hydrogen peroxide solution, leather cleaner or 3% multi-enzyme cleaner based on its instruction to ensure effective disinfection, and then fully wipe it with water.

### Caution:

Do not disinfect the upholstery with **alcohol, potentiated glutaraldehyde disinfectant, liquid bleach, Benzammonium bromide (Benzalkonium chloride) disinfectant, Benzoyl chloride ammonium propanol disinfectant or any kind of acid and alkaline disinfectants** which will lead to the aging, cracking or color difference of the upholstery. If the improper material is used and the upholstery is damaged, such as leather cracking or aging and color difference, this warranty becomes void.

## 9 Connecting diagrams

### Connecting diagram (Electric system)





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



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