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AJ12US Dental Chair User Manual

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This 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:** AJ12US

•**Working conditions:**

① Ambient temperature: 5 °C~40 °C.

② Relative humidity: ≤ 80%.







③ Atmospheric pressure: 86 kPa~106 kPa.







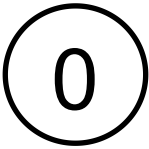

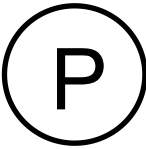





④ Nominal voltage: AC110 V±22 V.

⑤ Nominal frequency: 60 Hz±1 Hz.

1.2 Symbols Explanation

Table 1

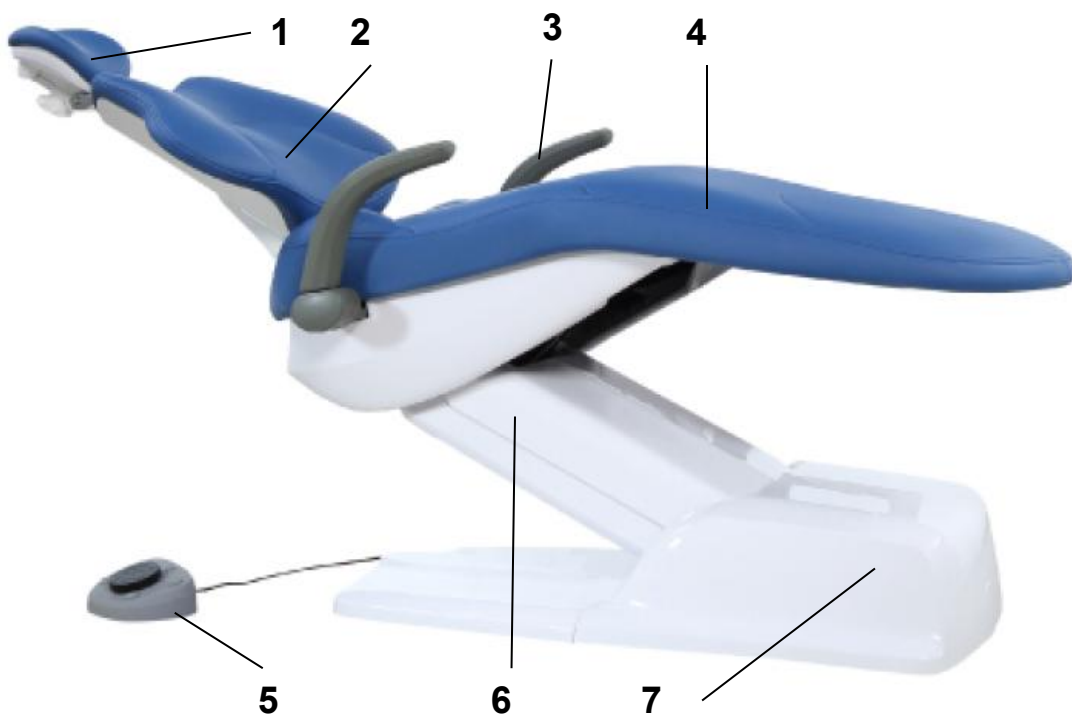
Symbol	Explanation
 Manufacturer	 Authorized Representative in the European Community/European Union
 Date of Manufacture	 Serial Number
 Fragile	 Keep Dry

Symbol	Explanation
 Refer to Instruction Manual/Booklet	 General Warning Sign
 Warning: Electricity	 Backrest Down
 Connect an Earth Terminal to the Ground	 Backrest Up
 Initial Position	 Base Down
 Setting	 Base Up
 Rinse Position	 Preset Position 1
 Preset Position 2	 Preset Position 3

2 Product Overview

The AJ12US dental chair (Figure 1), incorporating new design concepts, provides a good balance between usability, simplicity, and comfort.

Figure 1 AJ12 US Dental Chair

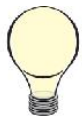


Item	Component	Item	Component
1	Headrest	5	Footswitch
2	Backrest	6	Lifting Arm
3	Armrest	7	Junction Box
4	Seat Upholstery/Toeboard		

3 Specifications

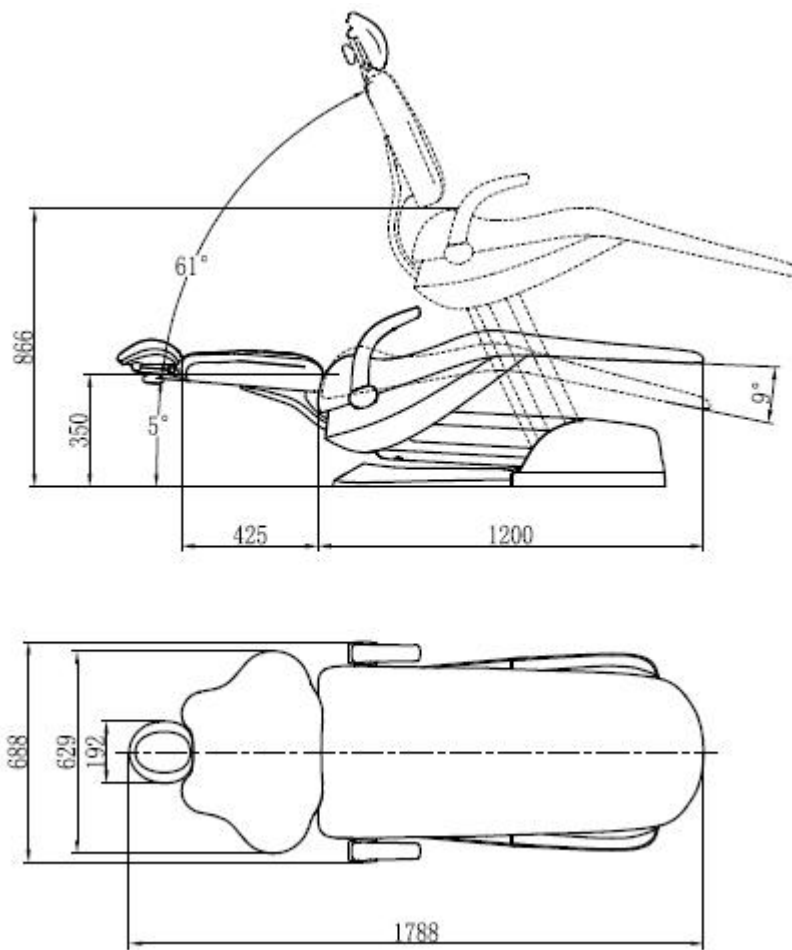
3.1 Patient Load

Patient Load: Max 135kg



Tip: Specifications are subject to change without prior notice.

3.2 Dimensions (unit: mm)



4 Preparations

4.1 Cautions

Before installing the unit, you should:

- Confirm the floor construction is safe to support the chair and clean.
- Reserve two manually operated valves for the air and water source.
- Exhaust the waste 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 installing the unit, read the manual carefully:



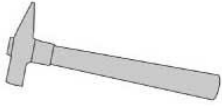
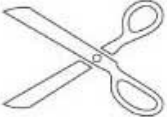






- Input voltage: AC110 V, 50/60 Hz.
- Make sure the dental unit is well-grounded.
- All electrical components and their connections need to be installed by an authorized technician.
- Only ADS-certified fuses, accessories, and spare parts can be installed on the chair.
- This device should not operate in the environment of high temperature, high humidity, vibration flammability, unbalance, or dusty.
- Only the authorized spare parts can be used in this device.
- Do not place objects within the range of motion of this chair.
- This device cannot be used in strong magnetic or electromagnetic environment.

Upholstery maintenance:

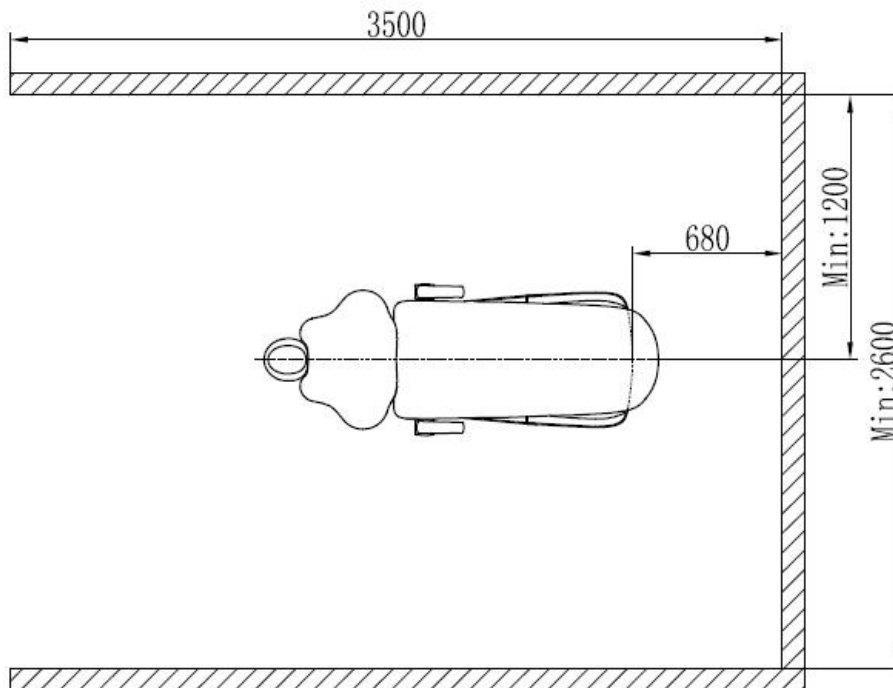
- Do not use organic solvents or alkaline detergents (such as gasoline, alcohol, etc.), as they may cause the leather to crack, become smelly, or fade.
- Avoid direct exposure to sunlight and ensure good ventilation in the room (exposure can cause the leather to crack, and poor ventilation can lead to mold growth).
- Instruct the patient to remove sharp objects (like keys) before handling the leather to prevent scratches.

4.2 Tools and Instruments

Prepare the tools and instruments below 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

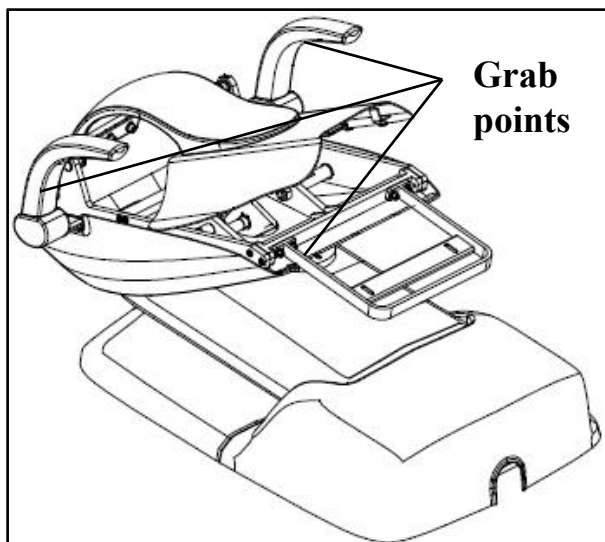


Note: The dimensions listed above are the minimum requirements.

5 Installation

5.1 Place the Chair

1. Remove all objects and cardboard from around the dental chair.
2. Hold the grab points and the front of the frame, uplift the chair, and place the chair on the expected place.
3. Remove binding belt and packing.




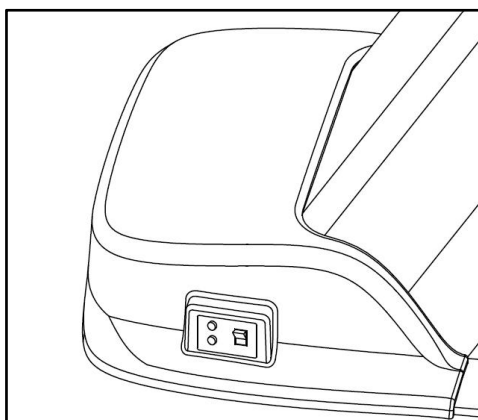
5.2 Fix the Chair



Attentions:

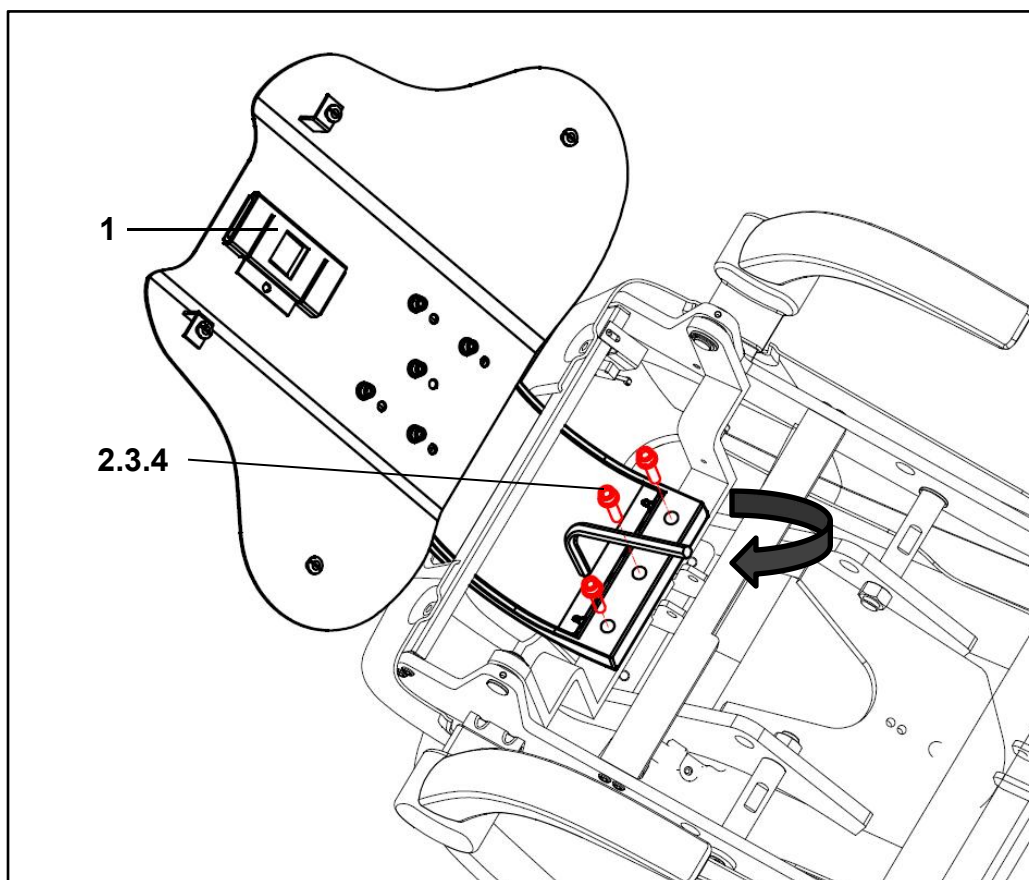
- 1.The chair must be fixed on the floor for ensuring stability, or it can be seriously damaged by wrong fixation.**
- 2.Check out the material of the floor on the installing place. Please contact the authorized contractor to thickening the floor if its thickness is less than 82 mm.**

1. Power on and activate the unit.
2. Press button  on the footswitch to raise the unit.
3. Switch off the unit and disconnect the power.
4. Remove the cover and mark the screw hole positions, then move the unit away.
5. Drill at the marked positions, insert the explosive bolt and return the unit to its position. and tighten the screw.



5.3 Install the Backrest

Figure 2

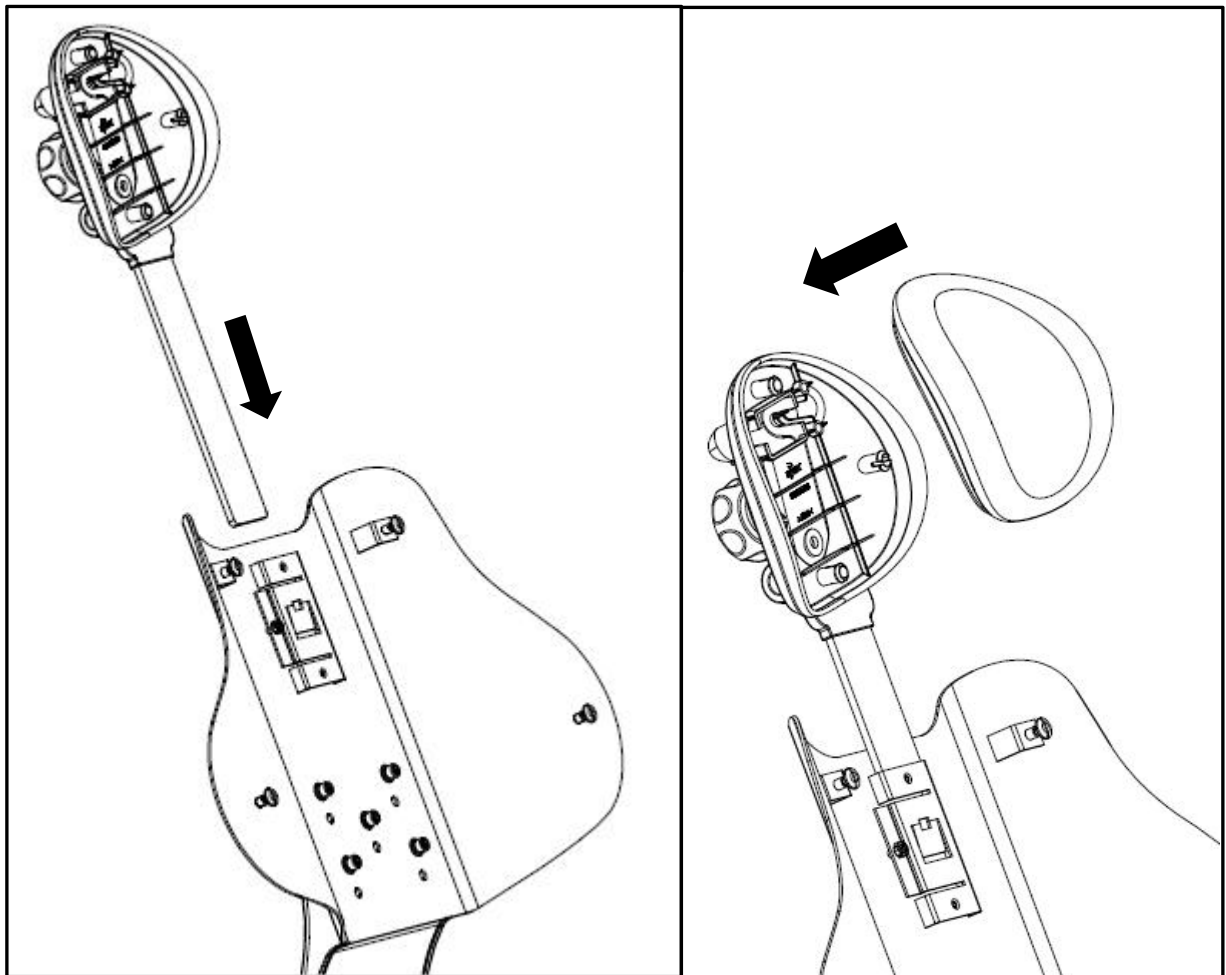


1	Backrest upholstery armature
2	M10*45 Hexagon socket cap screw
3	Φ10 Spring washer
4	Φ10 Plain washer

Tighten the backrest upholstery armature on the chair frame with three M10*45 screws.

5.4 Install the Headrest

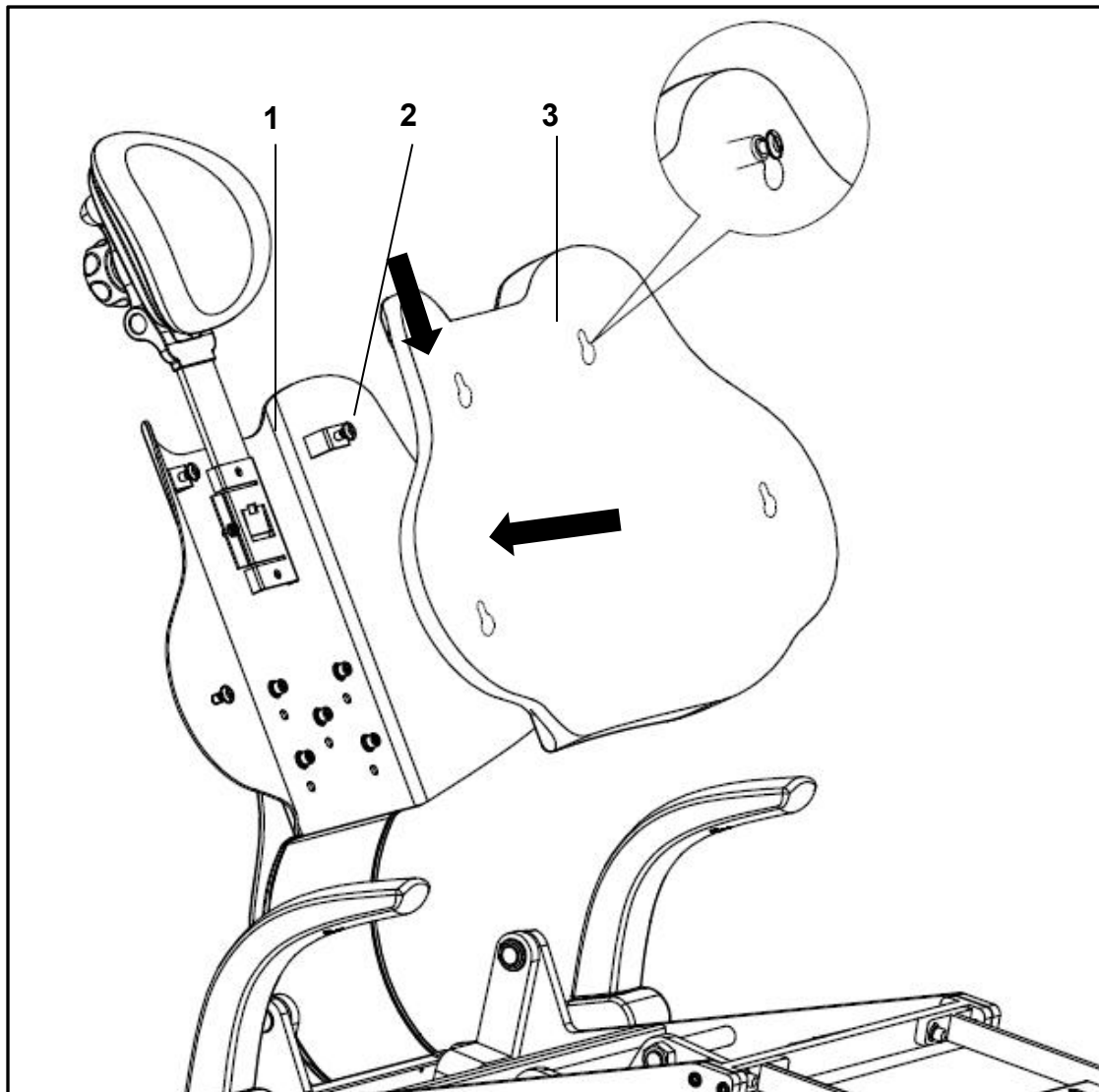
Figure 3



1. Insert the headrest glide bar into the slot of the backrest until full seated.
2. Install the upholstery to the headrest upholstery armature.

5.5 Install the Backrest Upholstery

Figure 4

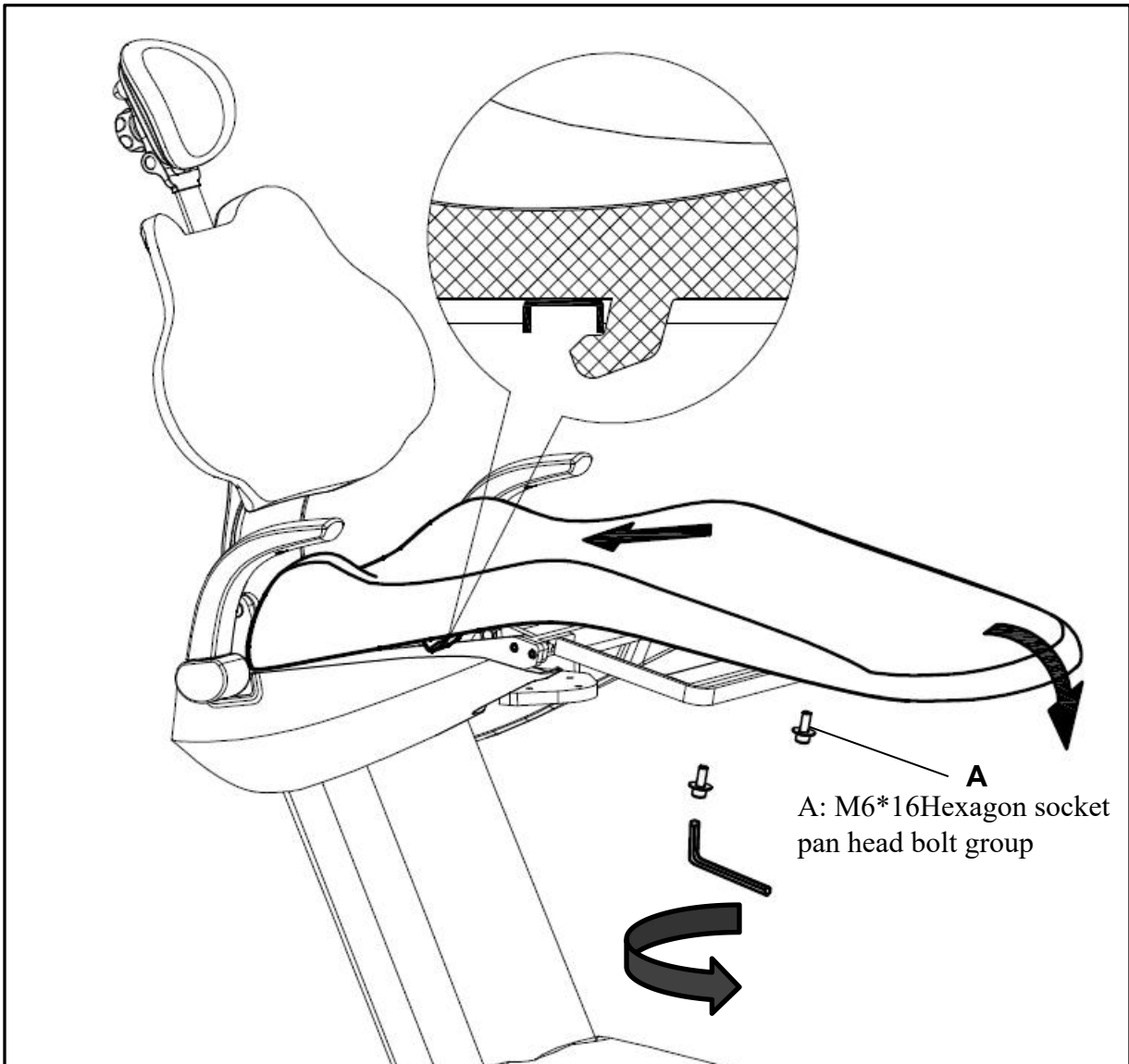


1、 Backrest upholstery armature 2、 Fastener posts 3、 Backrest upholstery

Place the key holes in the backrest upholstery over the fastener posts on the back upholstery armature. Push down until the backrest upholstery inserts into place.

5.6 Install the Seat Upholstery

Figure5



Put the upholstery onto the chair frame, secure the bracket and the rear end of the chair frame together, and tighten two M6*16 screws on the front end of the chair frame.

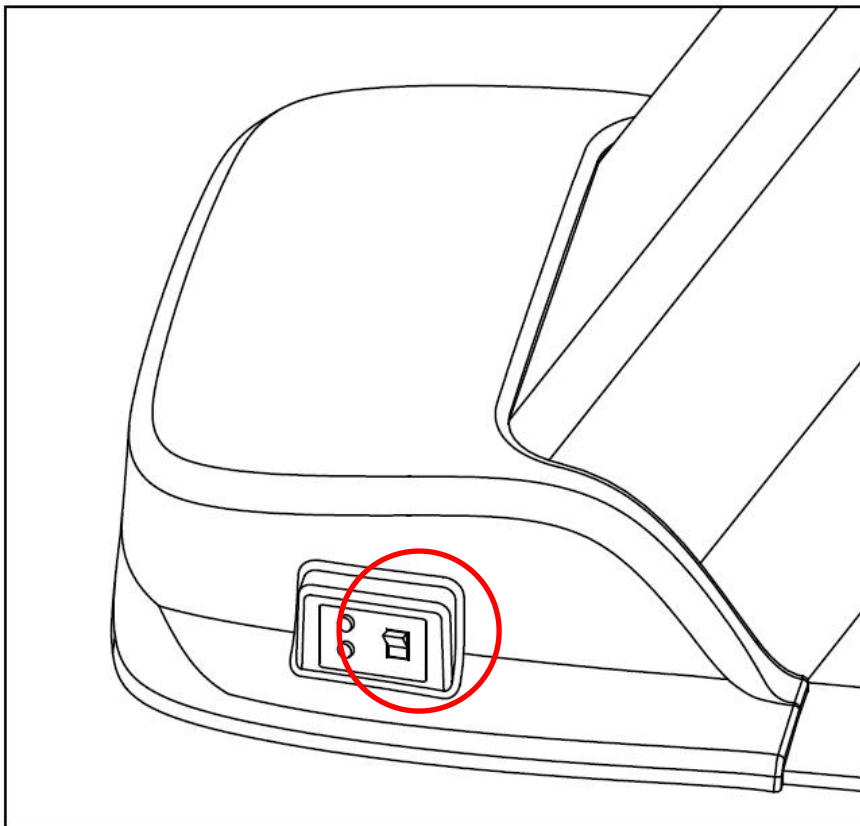
6 Operations

6.1 Power

The power switch of the equipment is located in the position shown in the figure. The power switch controls power supplying of the dental chair and its delivery system.

Power 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 footswitch.

6.2.1 Footswitch Operations

The base up/base down button raises and lowers the dental chair. Press the up or down arrow on the electric footswitch and hold until the dental chair is adjusted to the expected position.


The backrest up/backrest down button controls the movement of the backrest. Press the right or left arrow on the footswitch panel and hold until the backrest is adjusted to the expected position.

Figure 7



0	Initial Chair Position
1	Preset Position 1
2	Preset Position 2
P	Setting
LP	Rinse Position
←	Backrest Down
→	Backrest Up
↑	Base Up
↓	Base Down

6.2.2 Initialize the Dental Chair

Press and release button  : the chair base is lowered to the lowest position, and the backrest is raised to the highest position.



Caution: The motor version of the dental chair requires setting to the initial chair position in the following situations:

- . First installation.
- . Replacing any motor.
- . Replacing the chair circuit board.
- . Adjusting or replacing limit switches.
- . Abnormal chair movement .

6.2.3 Customize the Preset Positions

1. Move the chair base and backrest to the expected position and adjust dental light to the expected condition (On or Off).
2. Press the **P** button (about 3 seconds) until Indicator light is on and one beep is heard.
3. Release the **P** button.
4. Press the **1** or **2** button to hear a short beep.
5. Press and hold the **P** button (about 2 seconds) until the setting mode LED indicator flashes twice and two short beeps is heard.

The current chair positions and dental condition is set as a preset position.

6.2.4 Button Description

a. Backrest Up 

Press and hold the button: The backrest continuously moves up and stops if releasing the button or if the backrest reaches the position limit.

b. Backrest Down 

Press and hold the button: The backrest continuously moves down and stops if releasing the button or if the backrest reaches the position limit.

c. Base Up 

Press and hold the button: The base continuously moves up and stops if releasing the button or if the base reaches the position limit.

d. Base Down 

Press and hold the button: The base continuously moves down and stops if releasing the button or if the base reaches the position limit.

e. Initial Position

0

Press and release the button: the chair base is lowered to the lowest position, the backrest is raised to the highest position, and the dental light is turned off.

Press and release the button again: the chair base and backrest are restored to the previous positions. And the dental light is on.

NOTE: If the chair is stopped in a position during the procedure due to an external factor, for example, power outage or external force, the chair keeps stopping in this position even if the external factor is eliminated.

f. Rinse Position

LP

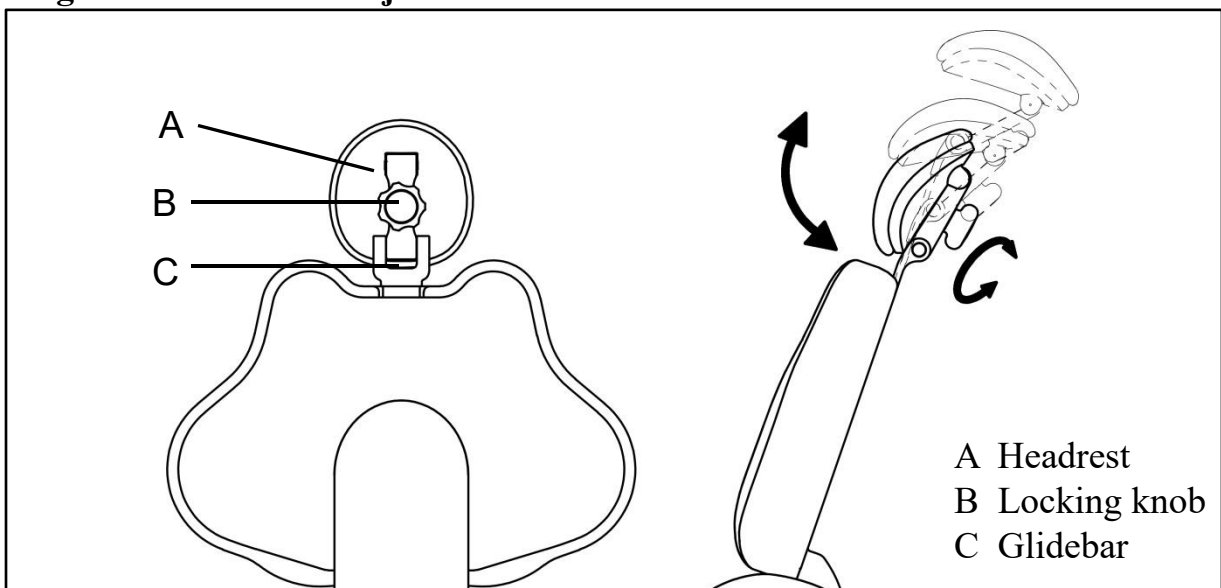
Press and release the button: the backrest is raised to highest position, and the light is off.

Press and release the button again: the backrest is restored to previous position. And the light is on.

NOTE: If the chair is stopped in a position during the procedure due to an external factor, for example, power outage or external force, the chair keeps stopping in this position even if the external factor is eliminated.

6.3 Headrest Adjustment

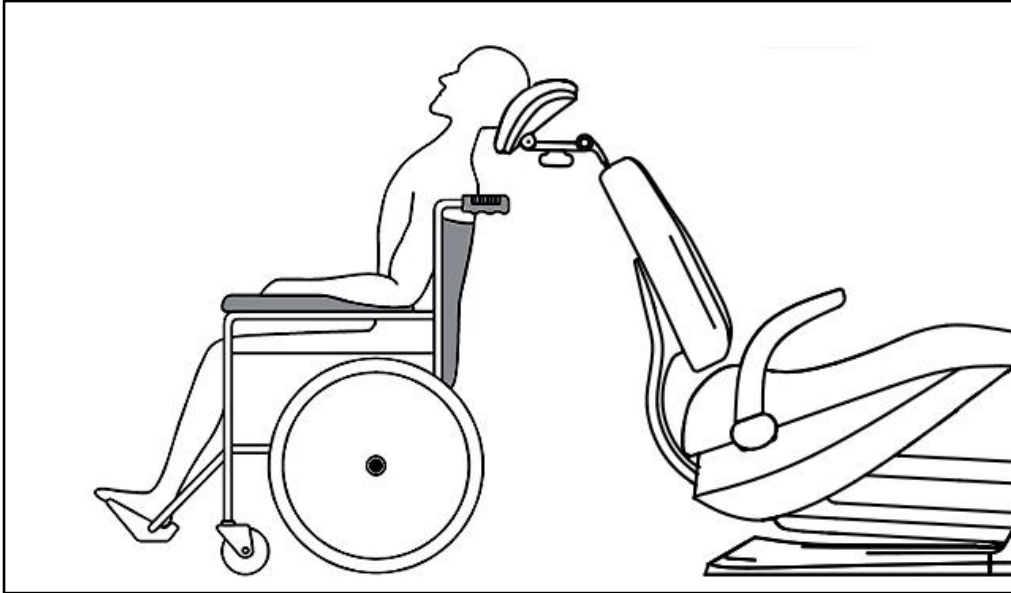
Figure 9 Headrest Adjustment



NOTE:

Please secure the headrest after adjusting it to ensure the patient's head is properly supported.

Figure 10 Position the Headrest for a Wheelchair



To position the headrest for a wheelchair:

1. Position the headrest as shown in the figure.
2. Fully raise the backrest.
3. Position the wheelchair and the dental chair back to back.
4. Move the dental chair up or down, as needed, to adjust the headrest height.
5. Lock the wheelchair wheels.

7 Maintain the Upholstery

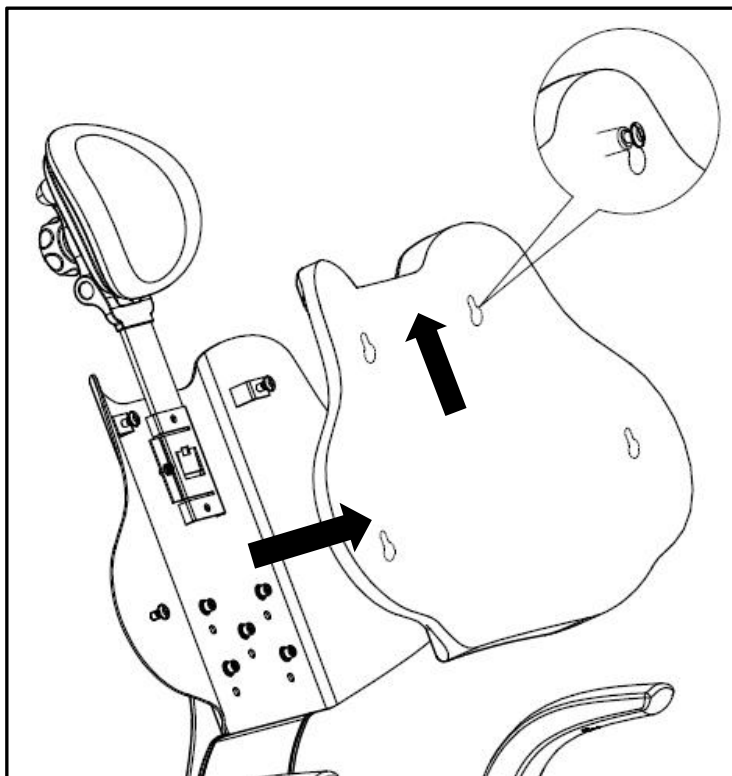
The special design of upholstery is easy to remove and replace. They are installed on backrest, seat, and headrest of the chair.

Backrest upholstery

To take off the upholstery from backrest, hold the bottom edge of upholstery firmly and lift it up (1 inch or 25 mm), then lift the upholstery from the backrest of the chair (shown in Figure15).

To reinstall the upholstery, place the key holes in the backrest upholstery over the fastener posts on the back upholstery armature. Push down until the backrest upholstery inserts into place.

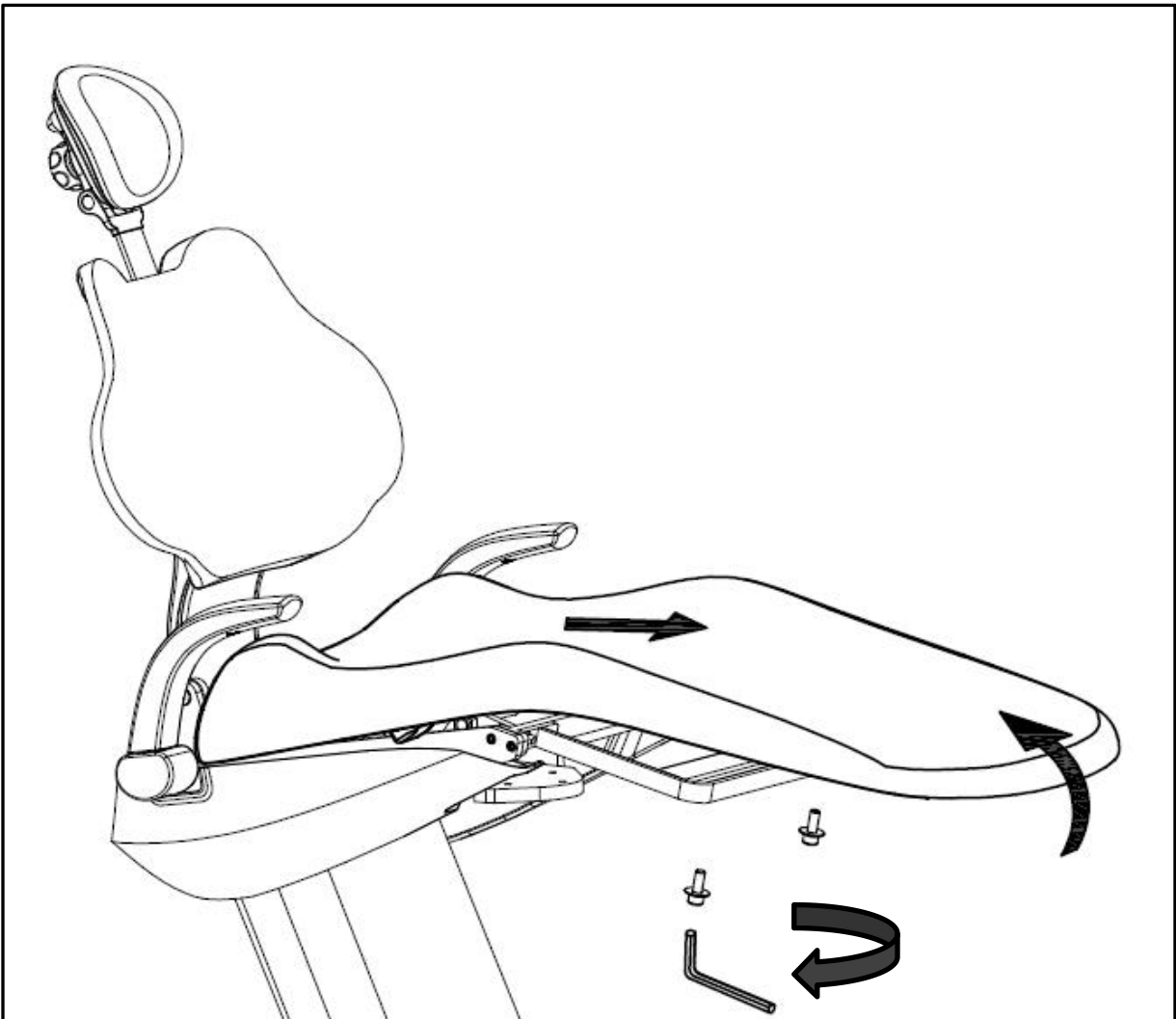
Figure 15 Remove the backrest upholstery



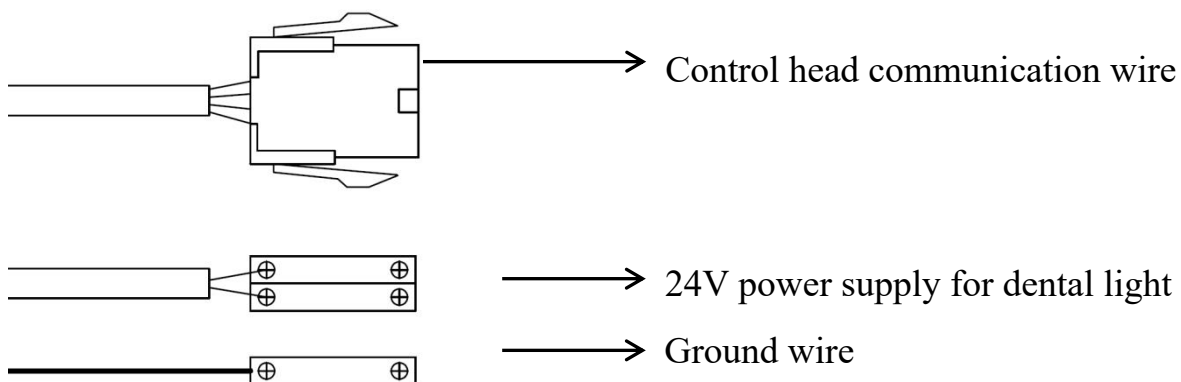
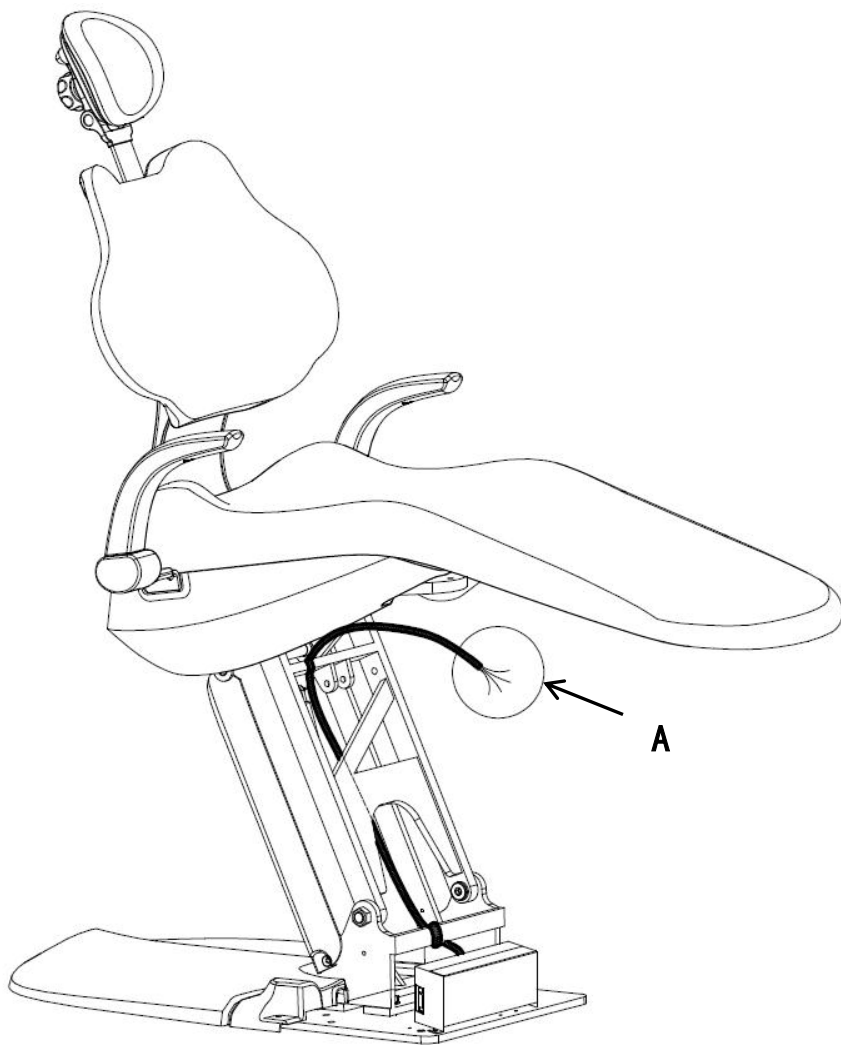
Seat upholstery

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

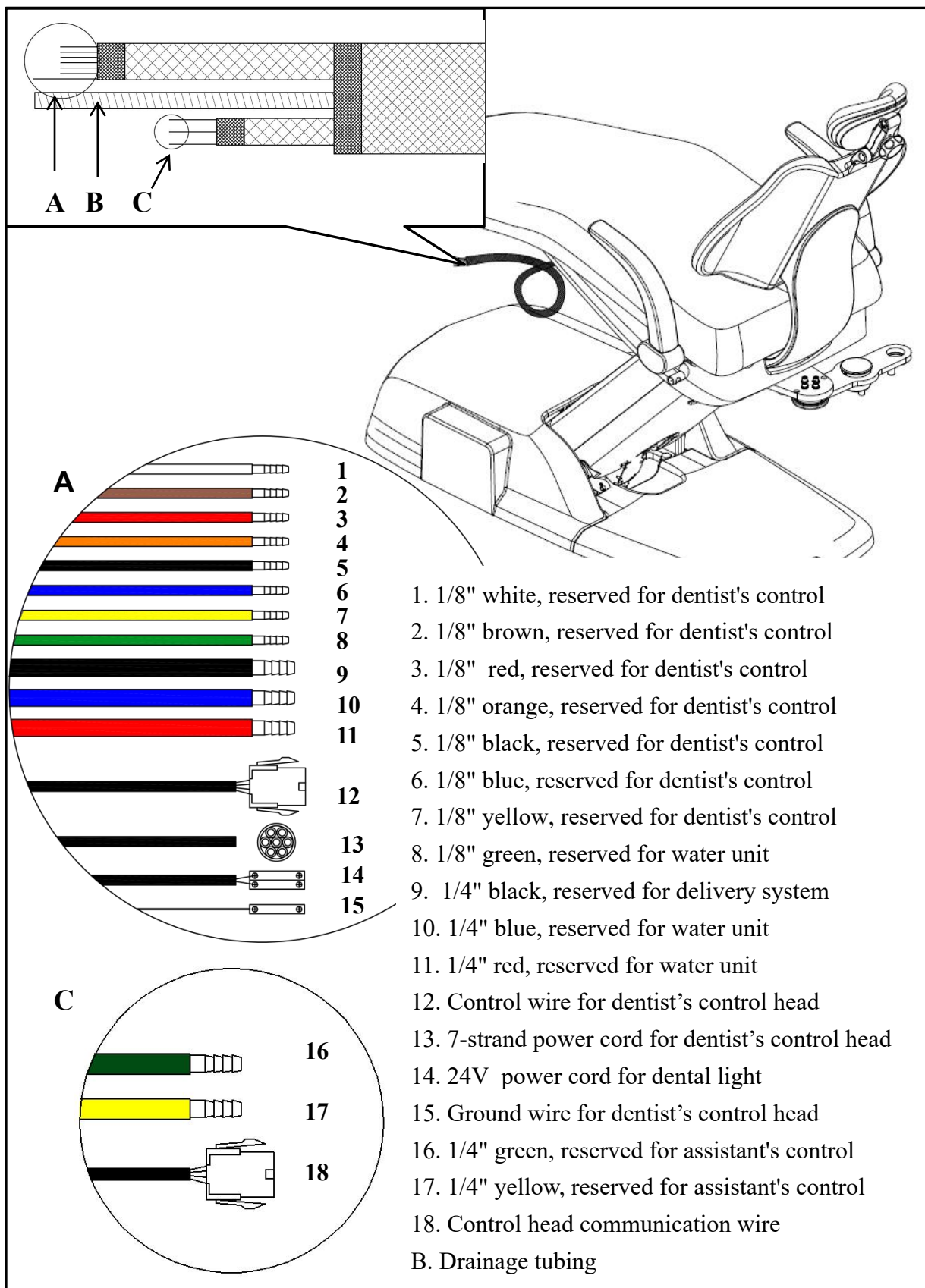
Figure 16 Remove the seat upholstery



8 Reserved Wires and Tubing



Tubing Bundle



9 Upholstery Cleaning and Disinfection

The upholstery provides users with unparalleled comfort, excellent aesthetics, and reliable quality. The upholstery comes with a one-year warranty covering defective materials and workmanship. Following these instructions can help to ensure a longer life for the upholstery.

Cleaning

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

Disinfection

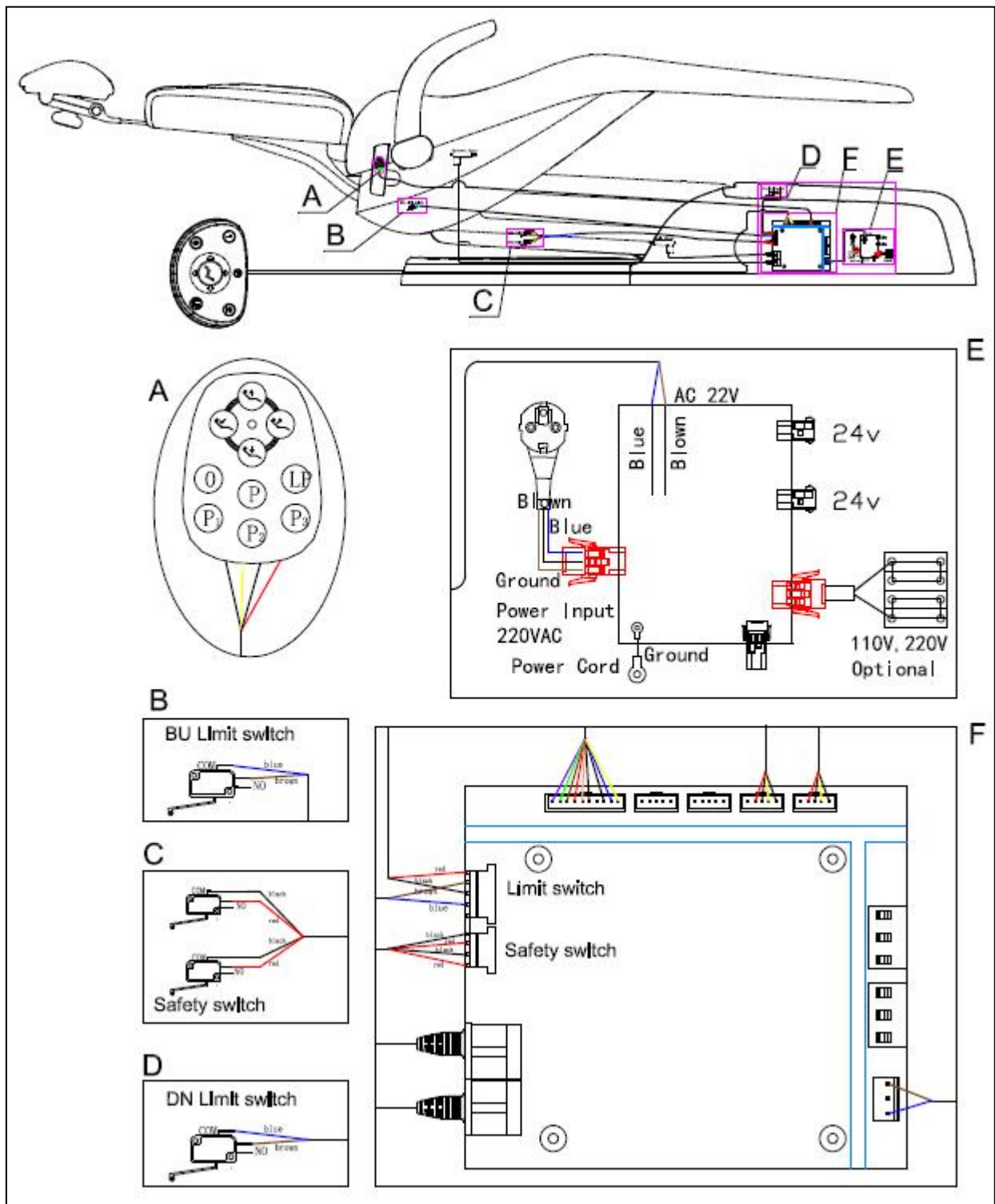
Recommend disinfecting the leather once a month with a 3% hydrogen peroxide solution, a leather cleaner, or a 3% multi-enzyme cleaner, following the manufacturer's instructions to ensure effective disinfection, and then fully wiping it down with water.

Caution:

Do not disinfect the upholstery with alcohol, potentiated glutaraldehyde disinfectant, liquid bleach, benzalkonium chloride disinfectant, or any kind of acid or alkaline disinfectants, as these can lead to the aging, cracking, or color fading of the upholstery. If an improper material is used and the upholstery is damaged, such as leather cracking, aging, or color fading, the warranty becomes void.

10 Wiring Diagram

Wiring Diagram



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



710422

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