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# Installation Manual of Classic 201 Delivery System

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The document is intended to be used in conjunction with the

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#### **Product service**

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#### Introduction 1

#### 1.1 Products information

• Name: Delivery system

Model: Classic201

• Working conditions:

① Ambient temperature: 5 °C $\sim$ 40 °C;

② Relative humidity:  $\leq 80\%$ ;

③Nominal Voltage: AC110 V±22 V;

4) Nominal Frequency: 60 Hz±1 Hz;

5 Water pressure: 29psi~58psi;

Unit conversion			
MPa	psi		
0.2MPa	29psi		
0.4MPa	58psi		
0.6MPa	87psi		
0.8MPa	116psi		

⑥ Input air pressure: 72.5psi~101.5psi, Air flow ≥50 L/min.

# **Symbols explanation**

Table 1

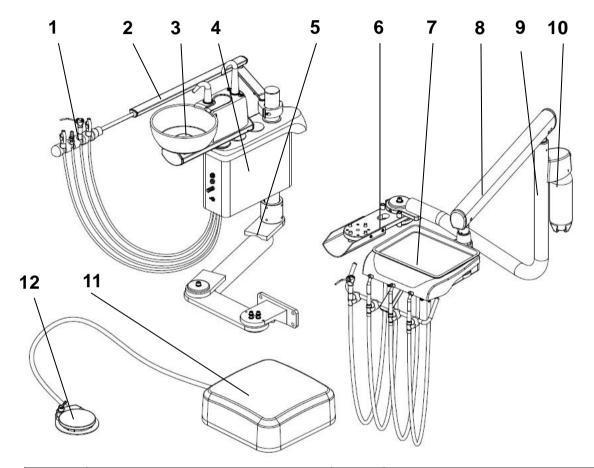
Symbols	Explanations	
	EC	REP
Manufacturer	EU Representative	
	SN	
Manufacturing Date	Serial Number	
	Ť	*
Handle with Care	Keep Dry	

Symbols	Explanations	
Refer to Instructions	Caution!	
4	< <u>&lt;</u>	
Refer to Attached Document.	Backrest down	
	(* <u>/</u>	
Avoid Electric Shock	ctric Shock Backrest up	
0	< <u>*</u>	
Ground Protection	Chair down	
P	( <u>†</u>	
Setup Button	Chair up	
LP	(P1)	
Spitting position	Program chair position 1	
(P2)	(P3)	
Program chair position 2	Program chair position 3	

# 2 Compositions

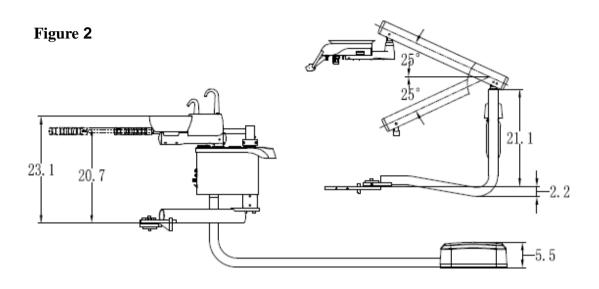
The system is composed by following components.

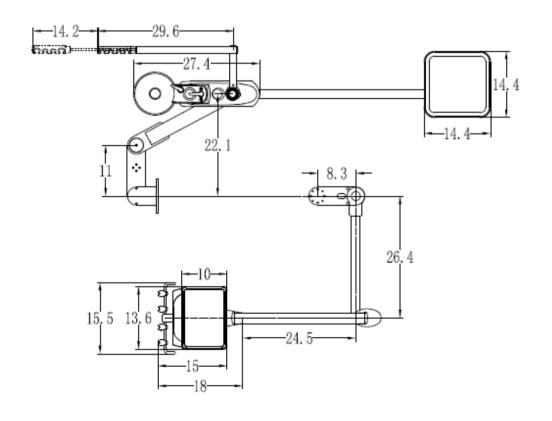
Figure 1 Delivery system



Item	Component	Item	Component
1	Assistant's control	7	Delivery head
2	Assistant arm	8	Level arm
3	Cuspidor	9	Rotary arm
4	Water unit	10	Water bottle
5	Connection arm of water unit	11	Junction box
6	Adapter	12	Foot control

# 3 Dimensions Size:inch





# 4 Specifications

Table 2

Light illuminance	8000-40000 Lux
Maximum load of Dentist Unit tray	2.5kg
Ambient temperature	5 ℃~40 ℃
Air supply pressure	72.5psi~101.5psi
Water supply pressure	29~58psi

### 5 Preparations

#### 5. 1 Attentions

#### Before install the unit, you should:

- Confirm the floor construction is safety to support the chair and clean.
- Apply two manually operated valves for the air and water source.
- Exhaust the dirty water and air before connecting.
- Before install the unit, please read the manual carefully:
- Input voltage AC 110V, 60Hz.
- Make sure the dental unit is well-grounded.
- All the electrical components and connections should be made by an authorized technician.
- Only fuse and accessories recognized by ADS technician can be used.
- 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.
- This device can not be used in the environment of strong magnetic, electromagnetic.

# 5. 2 Tools recommended

The tools and instruments need to prepare before installation.

Table 3

Table 5			_
	Electrical drill	SE	Pincers
	Hammer		Scissors
(8)	Leveling instrument		Flat-bladed Screw driver
	Phillip screw driver		Allen wrench
D C	Spanner		Hexagon socket wrench

# 5. 3 Installation sequence

Installation modules of Classic201 system. Install the modules in following sequence.

Figure 3

#### 1 Water unit box



#### 2 Compass arm set



#### 3 Classic dentist unit



#### 4 Dental light unit



#### **5** Junction box unit





**Notice:** 

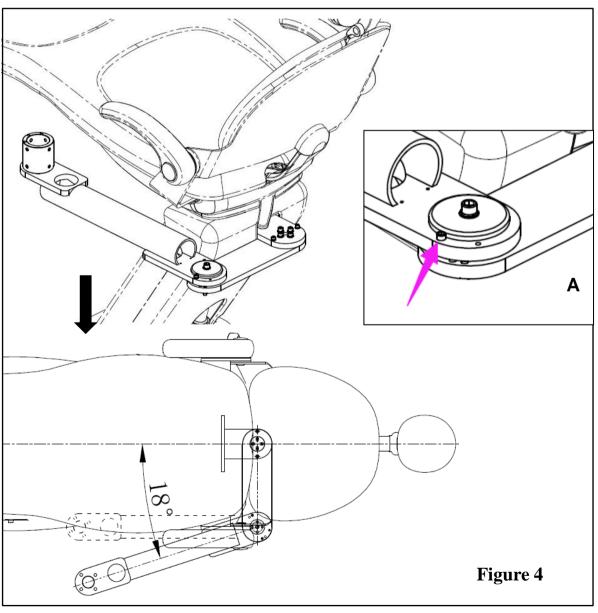
Each box contains all the parts that belong to the module .

#### 6 Installation

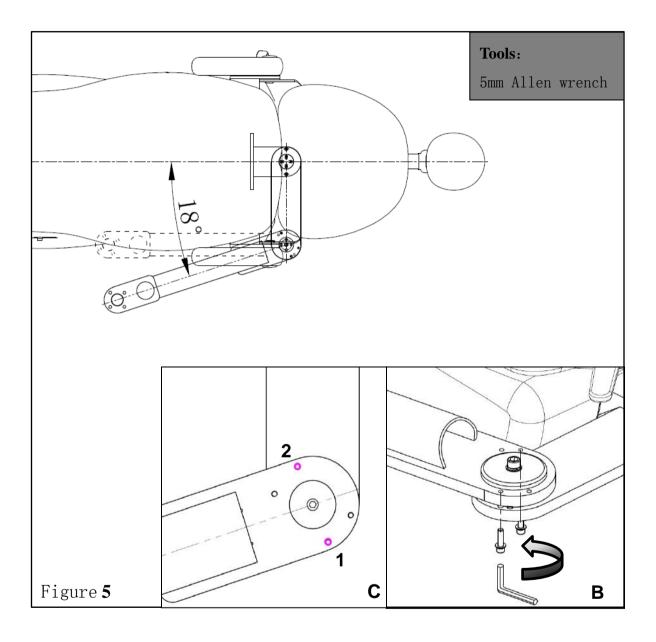
It is necessary to check whether the system and its accessories are damaged after unpacking. In addition, please check all accessories according to the accessories list. Install the system in the following steps:

#### 6. 1 Install the water unit

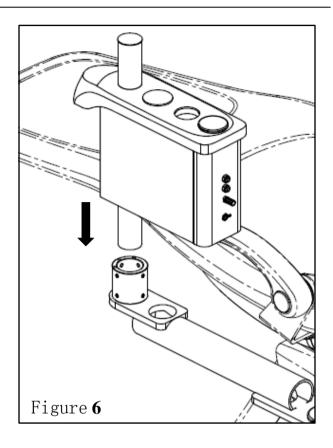
Default installation method (Water unit is installed to the left of the patient)
1. Before installing the water unit, take out the screw(Socket head set screw of M6\*30) on the connection arm(figure A), and let the connection arm 18° rotating outward.



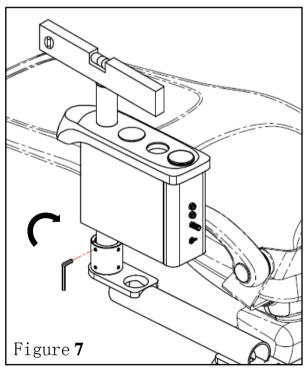
- 2. Lock the Socket head set screw of M6\*30 from bottom to top (figure
- B); The other one also needs to be locked (figure C).



3. Put the water unit on the seat of the chair.

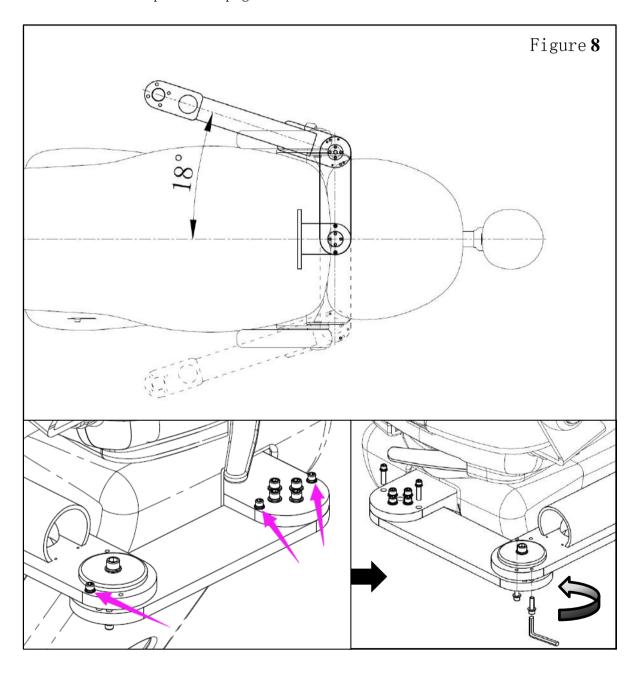


4. Level the water unit with a level ruler, and lock 8 pcs
Soket head set screw of M8\*10 on the seat.



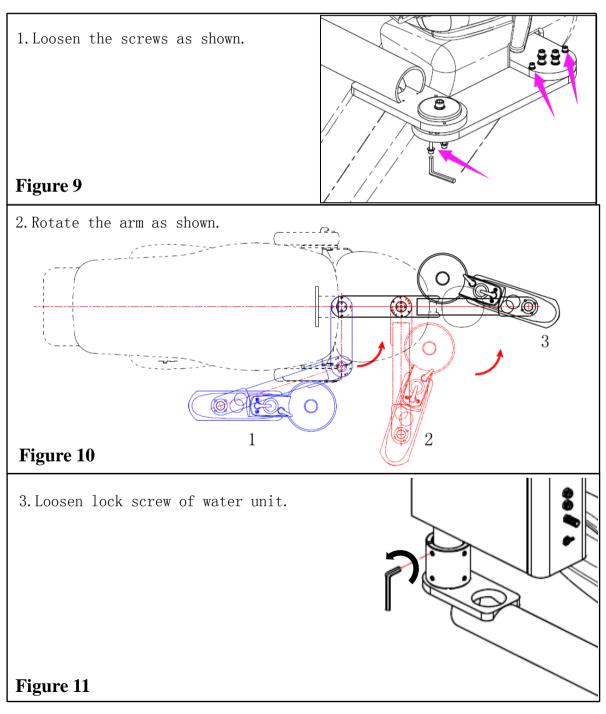
# Installation method 1 which water unit is installed to the right of the patient (Before installing the water unit)

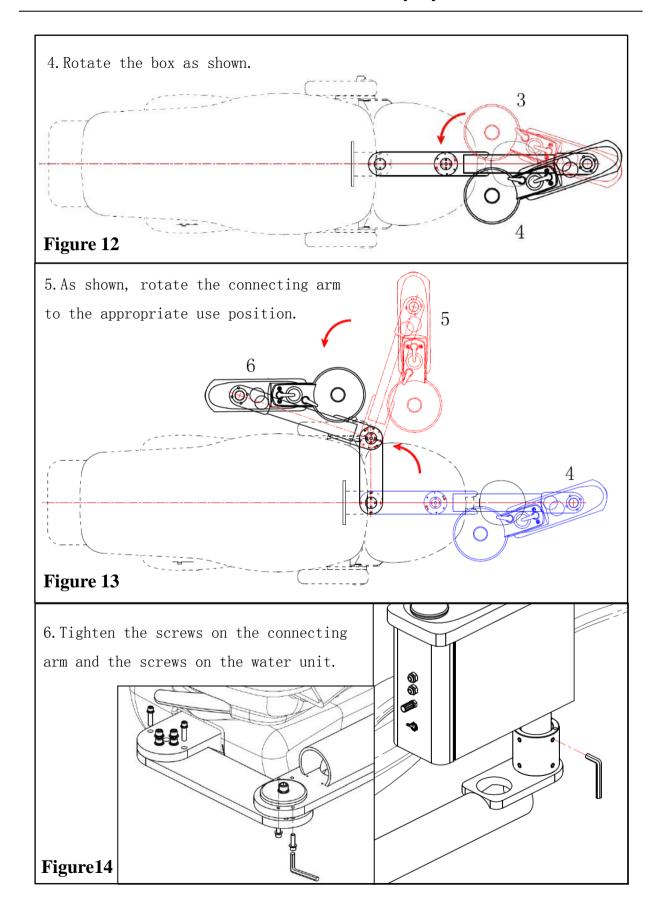
- 1. If you need to install the water unit in the right hand side, you need to loosen the screws on the mount, adjust the arm to the right hand side and lock the screws.
- 2. Refer to the previous page to install the water unit.



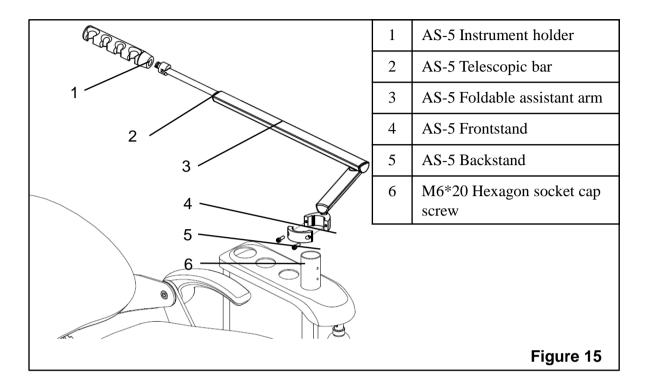
# Installation method 2 which water unit is installed to the right of the patient (The water unit has been installed)

If you need to change the water unit to the right hand side, you need to loosen the screws on the mounting seat, adjust the rotating arm to the right hand side and then lock the screws.



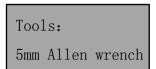


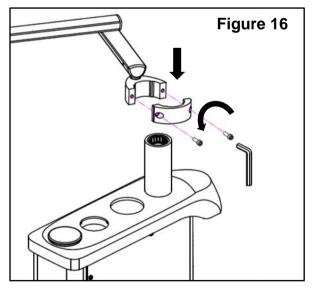
#### 6. 2 Install assistant's control



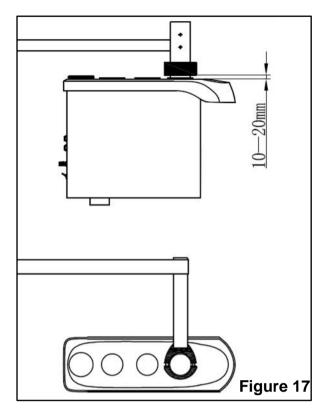
#### Figure 8 The installation steps 1

1. Take out the assistant unit from the carton, loosen the screws counterclockwise to divide the frontstand and backstand so that the arm can be installed on the post of the side box.

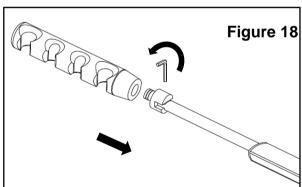




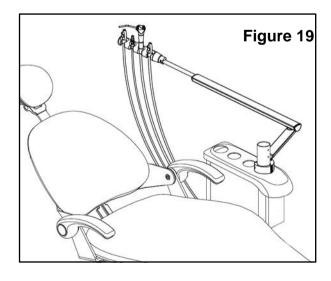
2. The height of the frontstand and backstand to the top surface of water unit should be10~20mm; tighten the screw in clockwise.



3. Insert Instrument holder into mounting shaft and lock fastening screw.



4. Put the HVE & SE valves and 3-way syringe to the holder.

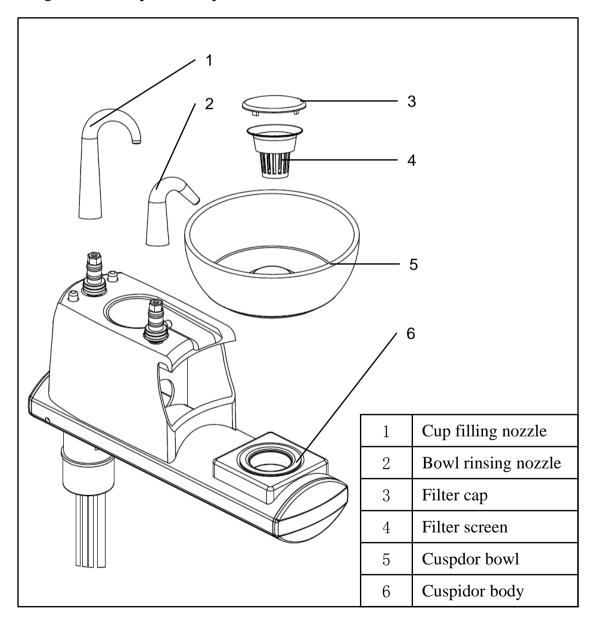


# 6. 3 Install the cuspidor

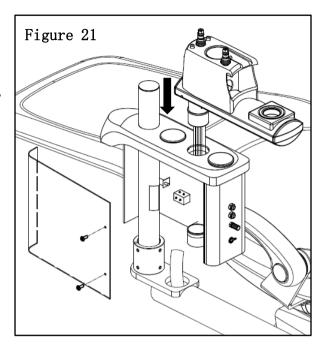


**Note:** Please ignore this step if there is no cuspidor configuration.

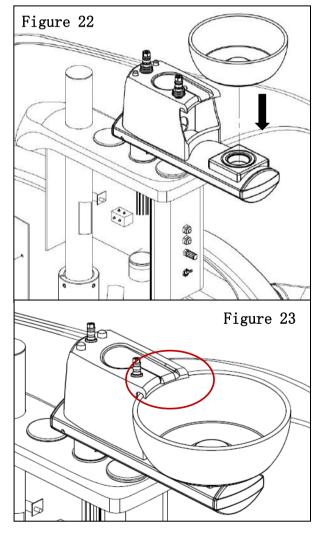
Figure 20 Cuspidor composition



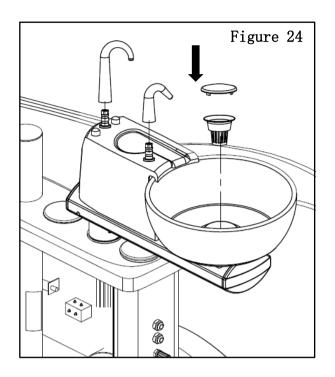
1. Let the tubes pass through the cosmetic ring and the mounting hole, mount the cuspidor body to the mounting hole on the water unit.



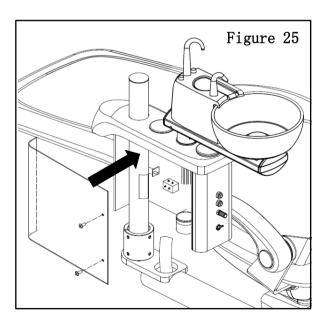
Put the cuspidor onto the cuspidor body and let the shell of the cuspidor body stick the edge of the cylinder.



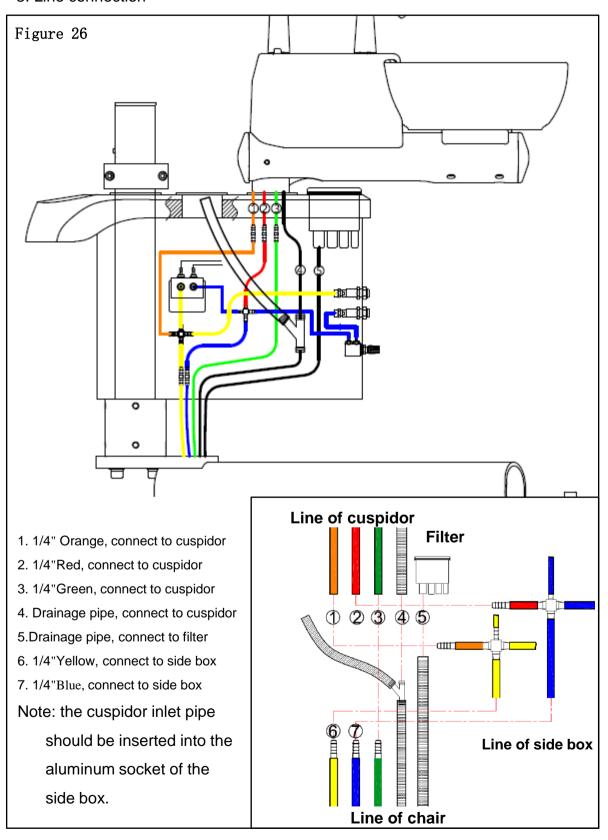
 Install filling pipe, rinsing pipe, cuspidor cover and strainer as shown.



 Connect the pipe and close the door of water unit. (line connection please see the next page)



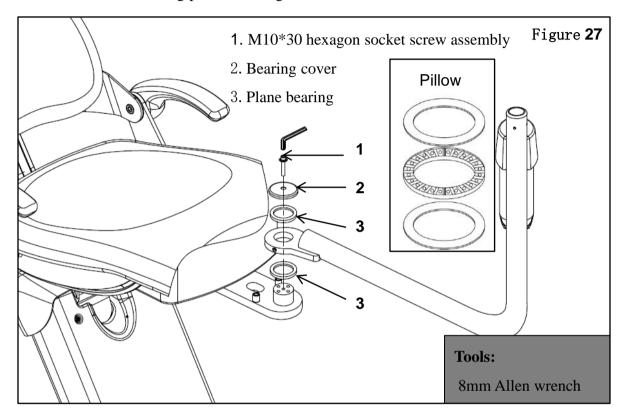
#### 3. Line connection



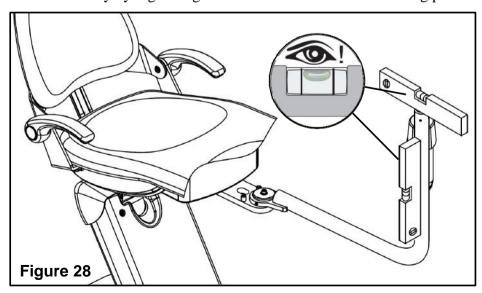
# 6.4 Installation of delivery system

# 6. 4. 1 Install the rotary arm

1. Release the M10\*30 screw of the connecting plate, mount the rotary arm to the front mounted connecting plate as the figure shown, then fasten the screw.

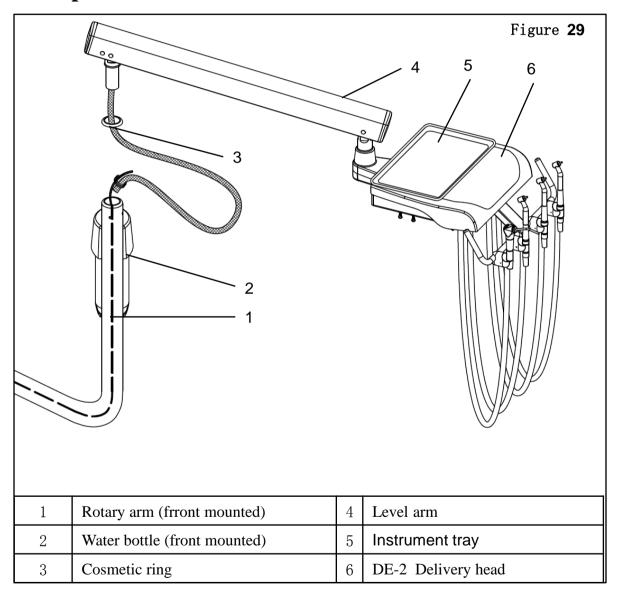


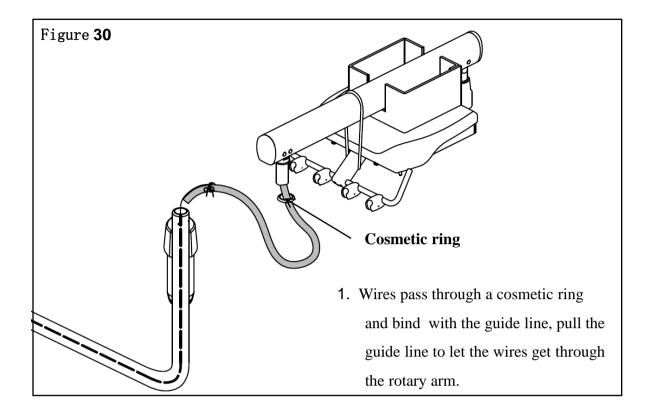
2. Assure the levelness of the rotary by regulating the four screws on the connecting plate.



# 6. 4. 2 Install dentist unit

# Compositions of dentist unit



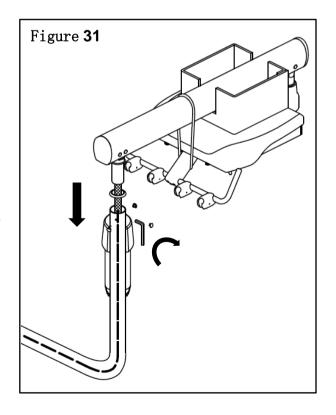


2. Install the unit to the rotary arm, fix it with three M6\*8 screws and insert the screw caps. Remove the wrappages after finish this step.

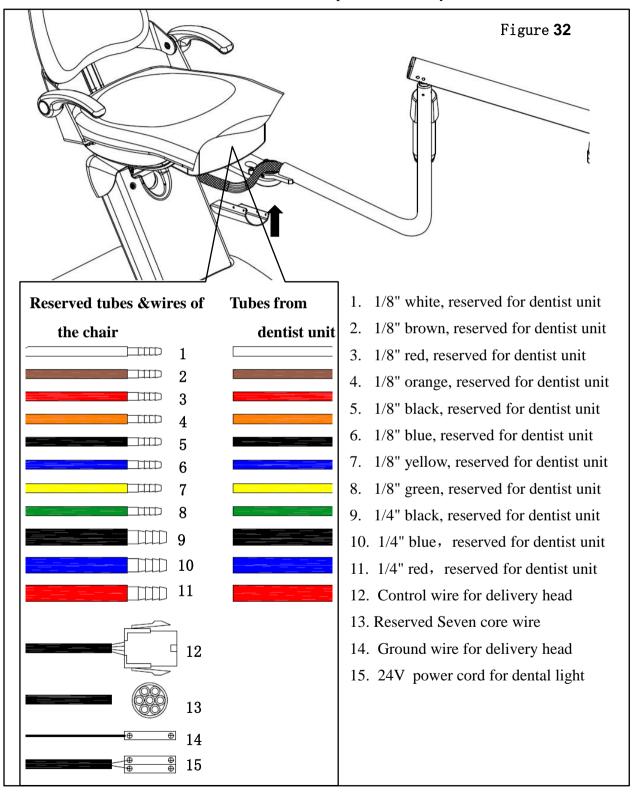
**Note:** Tightness of the M6 screw influences damping force of the level arm.



3mm Allen wrench



3. The tubes of the dentist unit and those reserved of the chair shall be connected by color, and close the cover after connection. Ignore the reserved wires, you have no need to connect them for there's no control panel on delivery head.



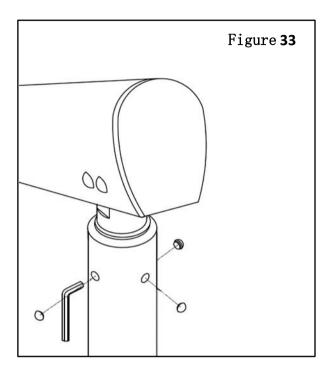
# 6. 4. 3 Adjust the level arm

 Remove the screw caps, change the tightness of the screws to adjust the damping force of level arm.

**Note:** Loosen the screws in counterclockwise, tighten in clockwise.

**Tools:** 

3mm Allen wrench

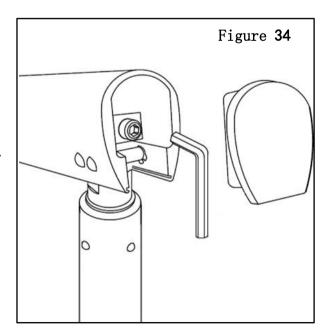


Remove the end cover of level arm, adjust the tightness of the screw to get suitable balance force.

**Note:** Loosen the screws in counterclockwise, tighten in clockwise.

**Tools:** 

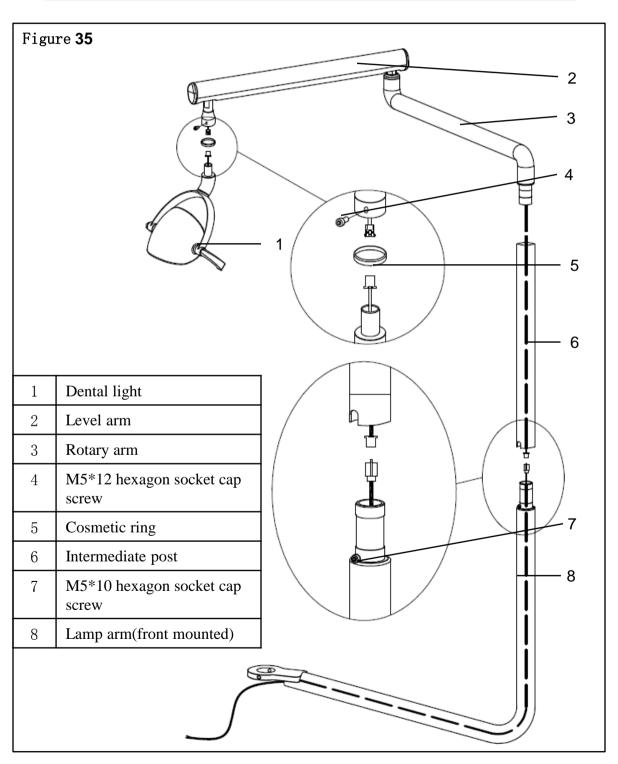
5mm Allen wrench



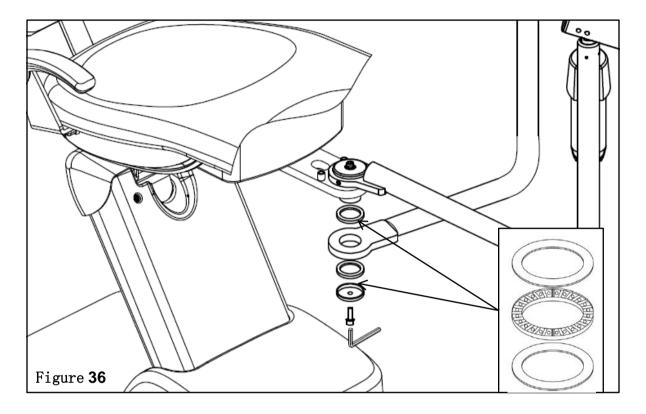
# 6.5 Install dental light (optional)



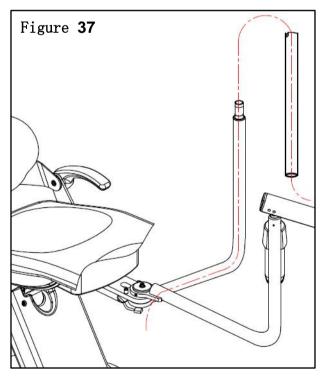
**Notice:** Please ignore this step if there is no lamp configuration.



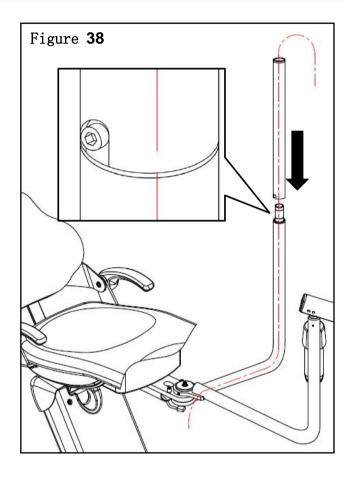
1. Release the M10\*30 screw of the connecting plate, mount the lamp arm to the front mounted connecting plate as the figure shown, then fasten the screw.



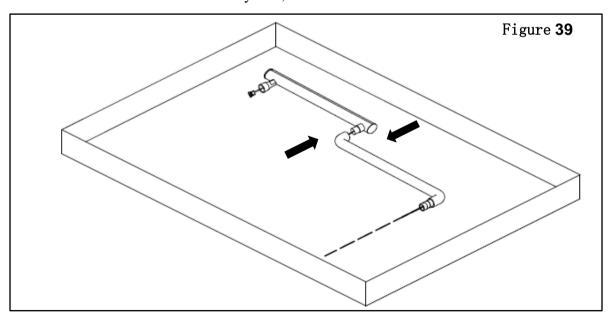
Let the guide line route though the intermediate post as the figure shown, the post end which has a jag should be upward.



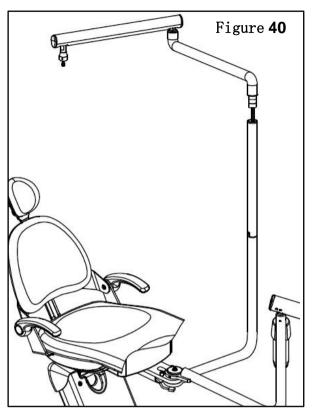
3. Joint the intermediate post and the rotary arm, the jag on the post is screw position.



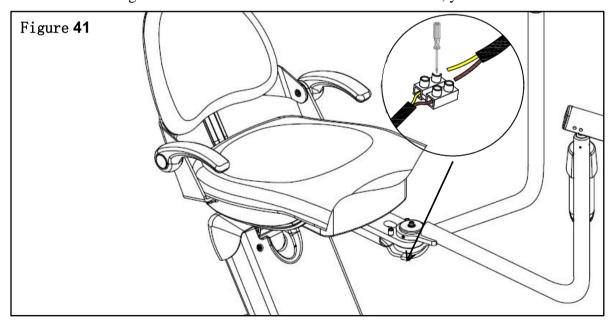
4. Joint the level arm and the rotary arm, take them out from the carton.



5. Tie the light wire and the guide line together, pull the guide line to lead the wire pass through the post and the lamp arm.



6. Connect the light wires and the reserved wires brown to brown, yellow to blue.

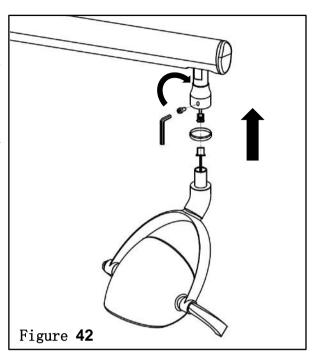


7. Take out the lamp from the package, pass the wire through the cosmetic ring and connect the wire terminals, then joint the light head and the level arm together, fully fasten with a M5\*12 screw.

**Note:** Hold the lamp, do not drop it to avoid damage.

**Tools:** 

4mm Allen wrench



#### 6. 6 Install foot control

1. Pass the foot tube over the side of hydraulic pump, fix the tube by clips.

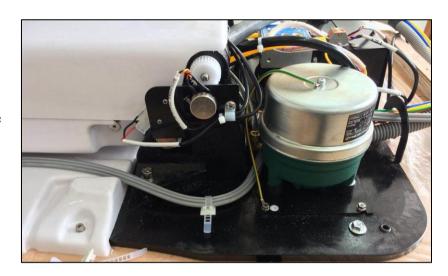


Figure 43

2. Bind the front part of the foot tube and the tube bundle together with zip ties.



Figure 44

3. The other end of the foot tube shall reach out from the side of front shell.



Figure 45

#### 6. 7 Junction box connection

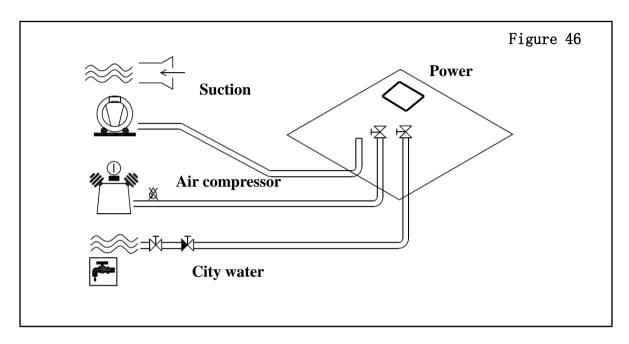
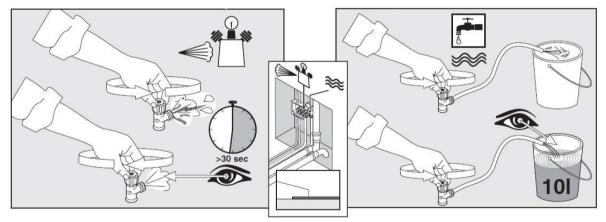


Figure 47



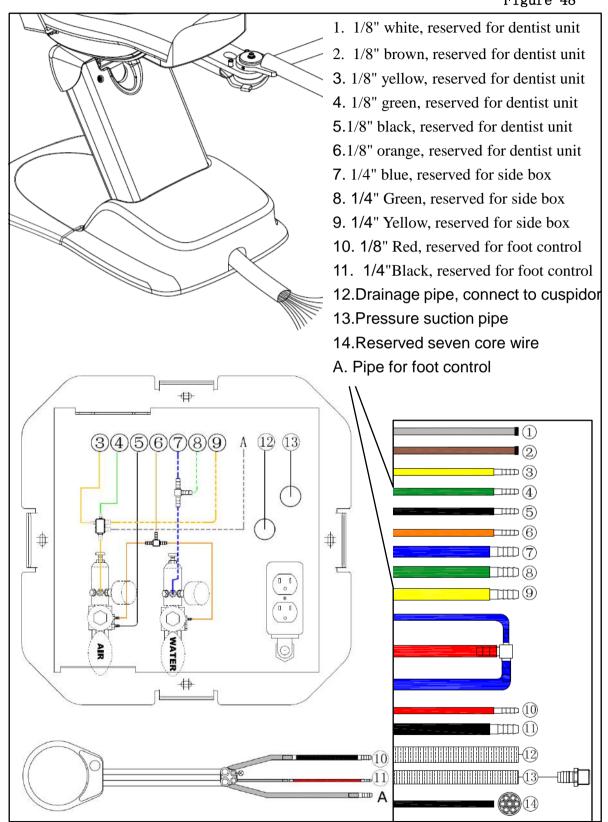
The tubes & wires are in the tubing zone or inside the external junction box, their places depend on your chair configurations.

- 1. Open the valves to exhaust water and air, clean the tubes before connecting.
- 2.. Open the cover of the junction box, connect the air-in, water-in and water-out.
- 3. Take out the power box of dental light ,connect the power cord to the power box, and plug into the socket.
- 4. Close the cover after making sure they are well-performed.

#### Installation Manual of Classic 201 Delivery System

Connect the pipe of the junction box and the chair according to the color, connect the pipe of the foot control with the reserved pipe on the chair and the pipe of the junction box valve according to the color.

Figure 48



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





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