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Installation Manual
of
Classic 100/101 Delivery System

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1 Introductions

1.1 Products information

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

•**Name**：Delivery system

•**Model**：Classic100/101

•**Working condition requirements**：

① Ambient temperature：5 ℃～40 ℃；

② Relative Humidity：≤80%；

③ Nominal Voltage：AC110 V±22 V；

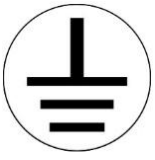
④ Nominal Frequency：60 Hz±1 Hz；

⑤ Water Pressure：29 psi～58 psi；

⑤ Input air pressure 72.5 psi~101.5 psi , Air flow ≥50 L/min；

1.2 Symbols explanation

Table 1

 Manufacturer	 EU Representative	 Notice
 Manufacturing Date	 Serial Number	 Avoid Electric Shock
 Handle with Care	 Keep dry	 Ground protection
 Refer to introductions	 Refer to attached documents	

2 Compositions

The system is composed by following components.

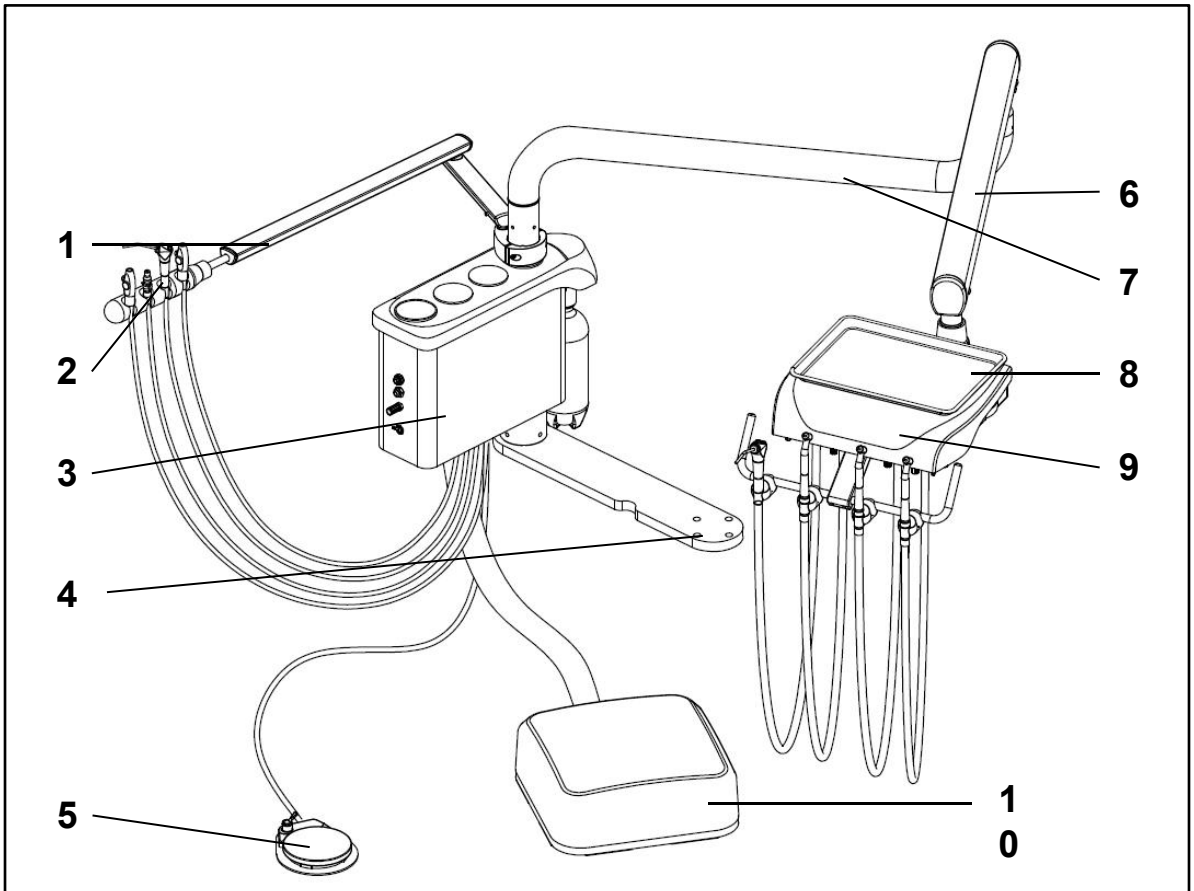


Figure 1 Classic 100 delivery system

Item	Component	Item	Component
1	Assistant arm	6	Level arm
2	HVE,SE valves, 3-way syringe	7	Rotary arm
3	Water unit	8	Delivery head
4	Chair adpter	9	H.P hoses
5	Foot control	10	Junction box

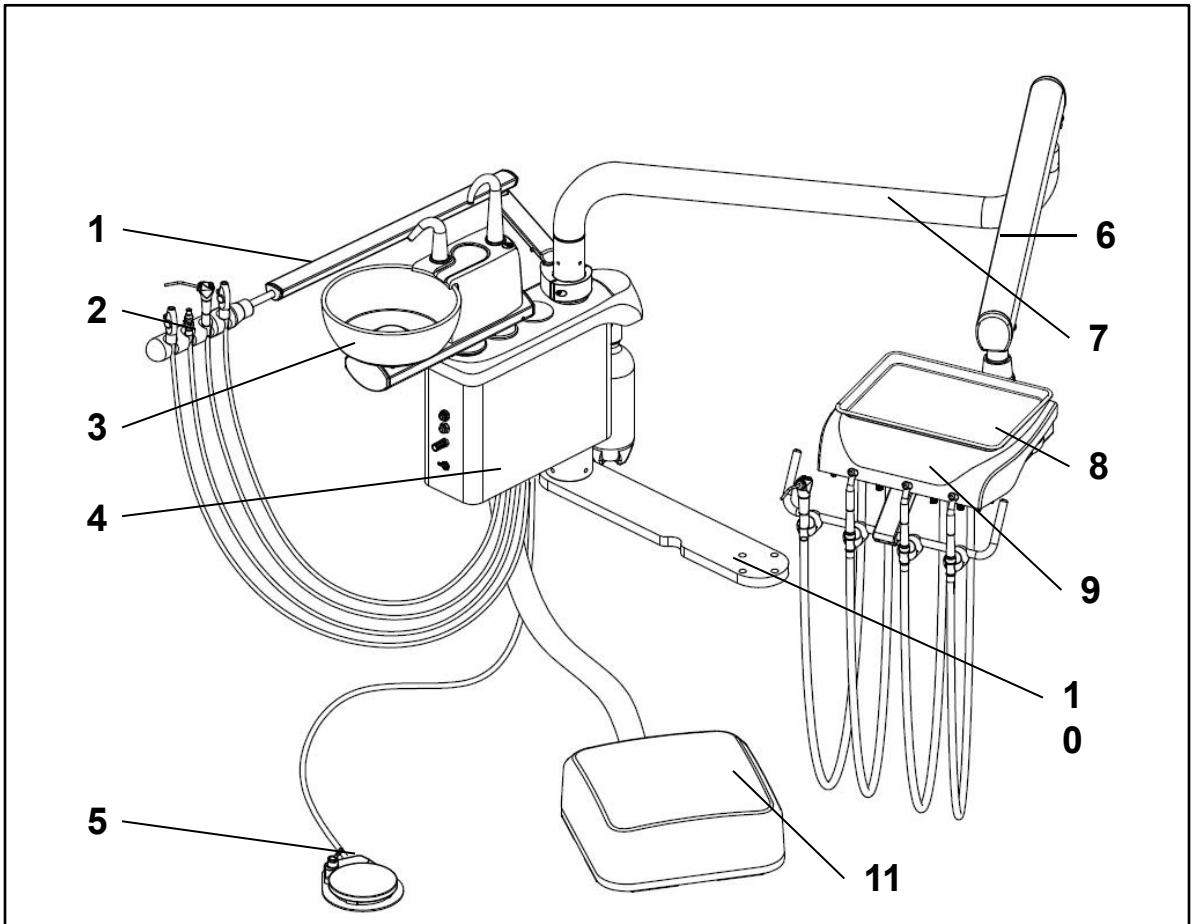
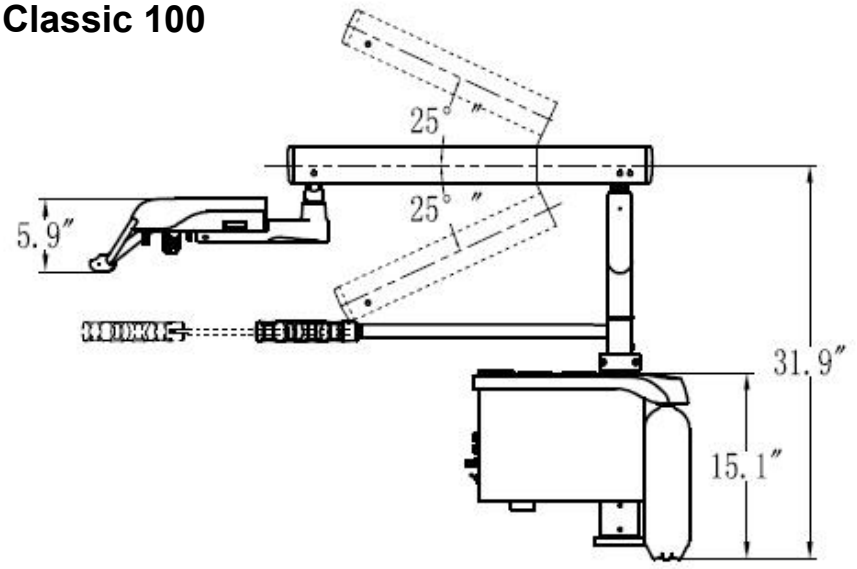


Figure 2 Classic 101 delivery system

Item	Component	Item	Component
1	Assistant arm	7	Rotary arm
2	HVE,SE valves, 3-way syringe	8	Instrument tray
3	Cupidor	9	Delivery head
4	Water unit	10	Chair adapter
5	Foot control	11	Junction box
6	Level arm		

3 Specifications

Figure 3 Classic 100



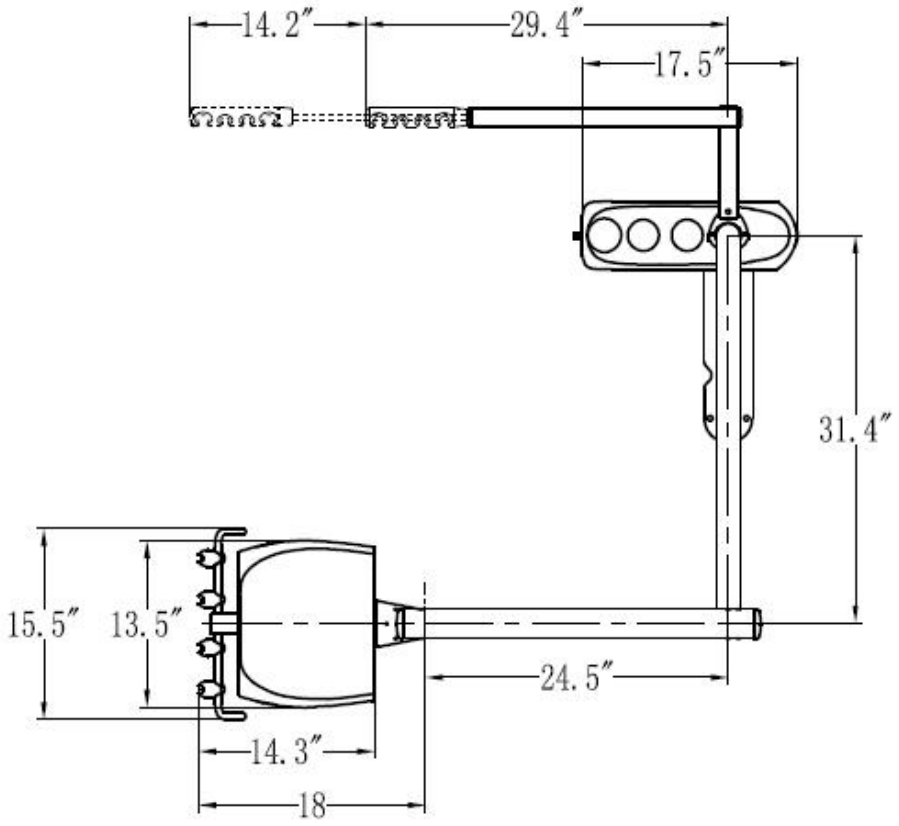
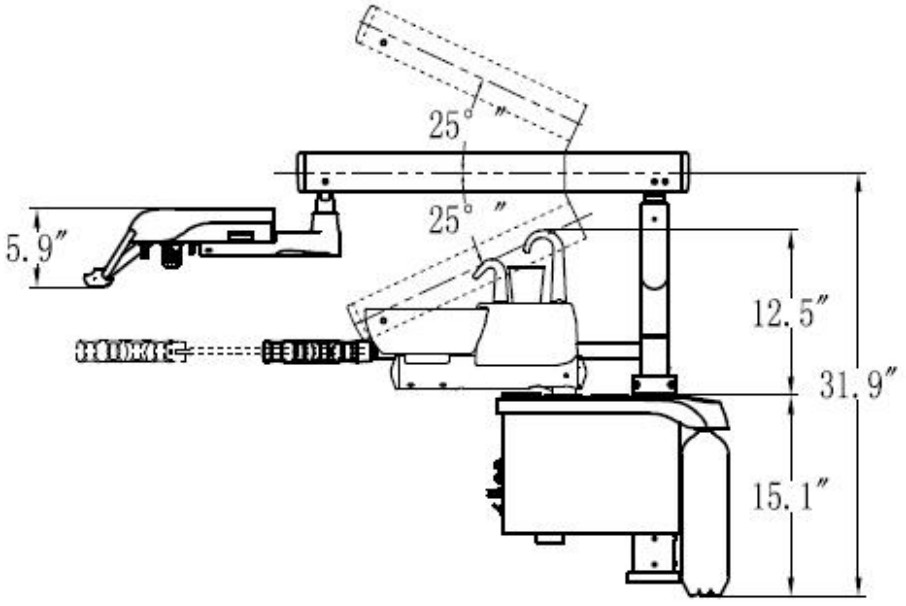
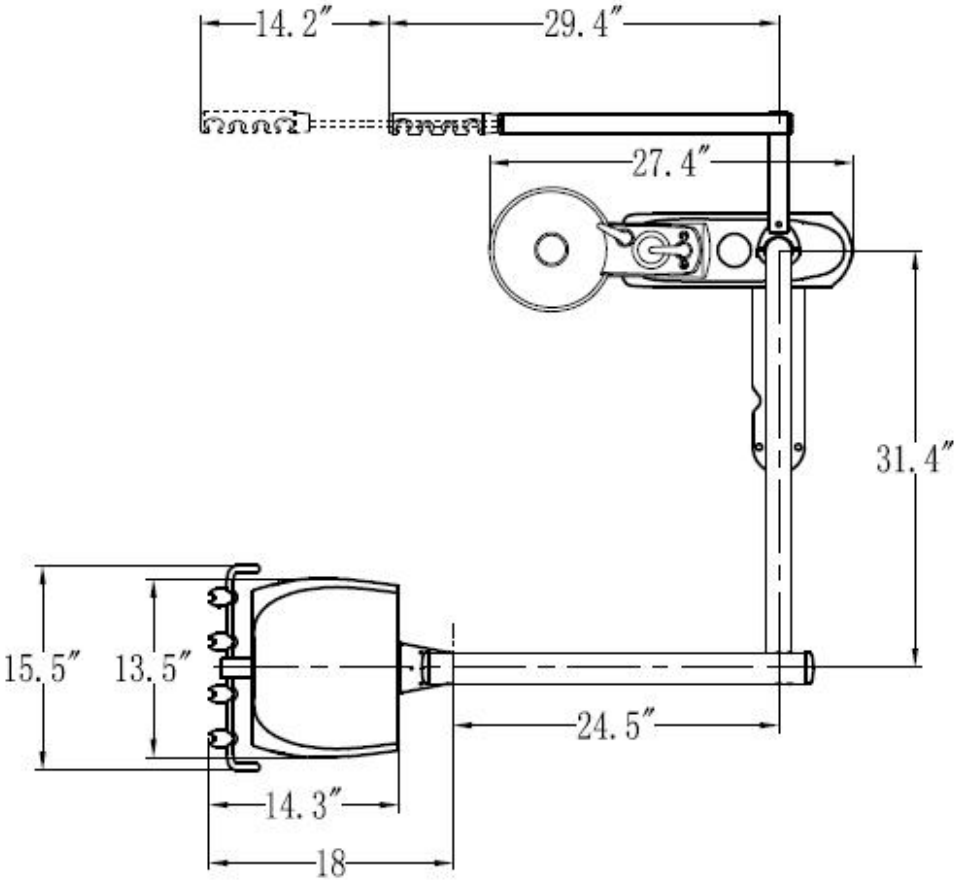


Figure 4 Classic 101





4 Specifications

Table 2

Light illuminance	8000-40000 Lux
Max load of delivery head	2.5kg
Ambient temperature	5 ℃～40 ℃
Air supply pressure	72.5 psi～101.5 psi
Water supply pressure	29～58 psi

5 Preparations

5.1 Attentions

Before install the unit, you should:

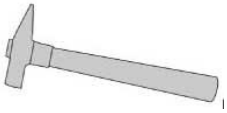
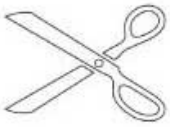
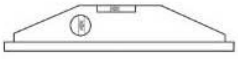
- Clear all the debris in the room ,and clean the floor thoroughly.
- Apply two manually operated valves for the air and water source.
- Exhaust the dirty water and air before connecting.

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 fuses 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.

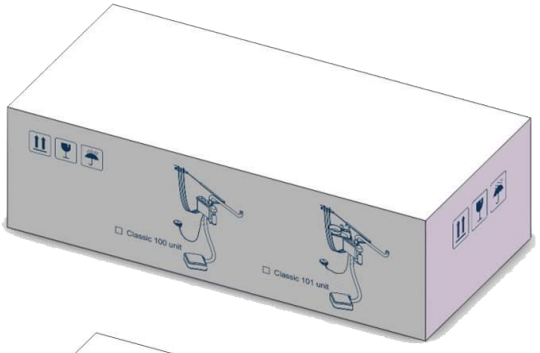
	Electrical drill		Pincers
	Hammer		Scissors
	Leveling instrument		Flat-bladed Screw driver
	Phillip screw driver		Allen wrench
	Spanner		Hexagon socket wrench

5.3 Installation sequence

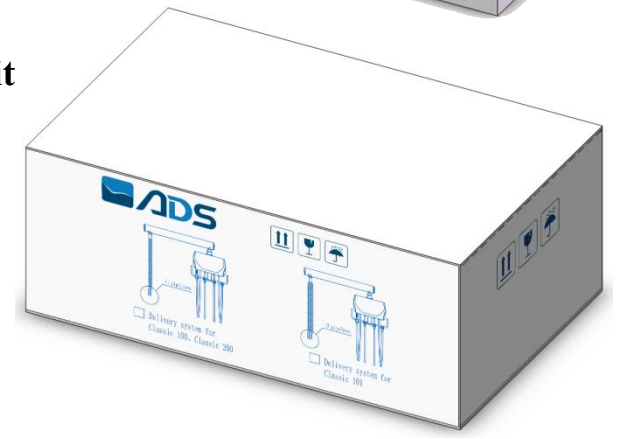
Installing packages of the Beyond 400 system. Please install these packages as the sequence below.

Figure 5 Installing Packages

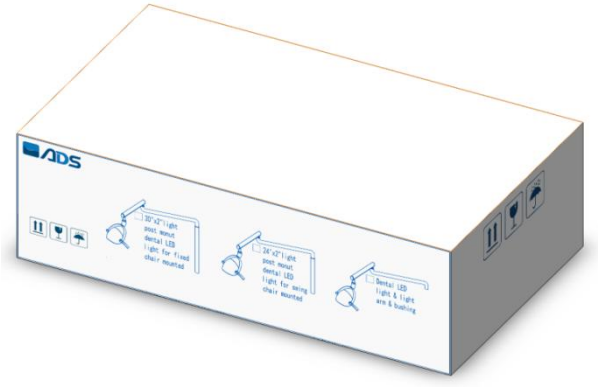
1 Classic side box unit



2 Classic dentist unit



3 Dental light unit (optional)



Notice:
Each box contains all the parts that belong to the package .

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. Please install the unit in following orders.

6.1 Fix the chair adapter

1. The system should be mounted to left side of the dental chair.
2. Fix the adapter on the chair frame with screws.

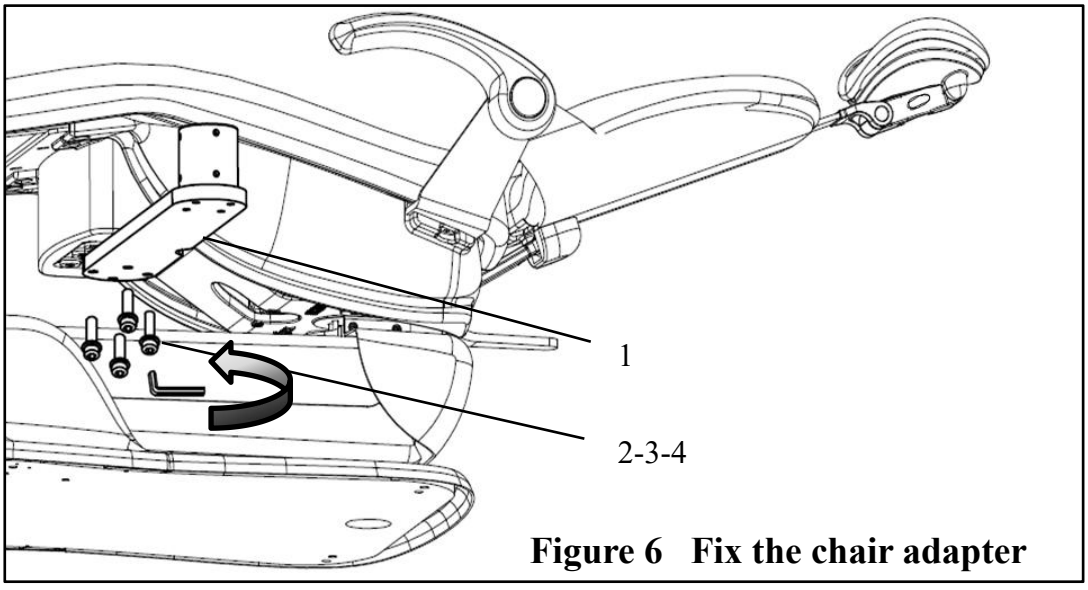


Figure 6 Fix the chair adapter

Tool:
8mm Allen wrench

1	Chair adapter
2	M10*40 Hexagon socket cap screw
3	Φ10 Spring washer
4	Φ10 Plane washer

Attention: Completely tighten the screws to avoid water unit loosening during operation.

6.2 Install the water unit

1. Insert the post of the water unit into the right position on the adapter, and fix it with eight M8*10 set scerws.

Tool：
4mmAllen wrench

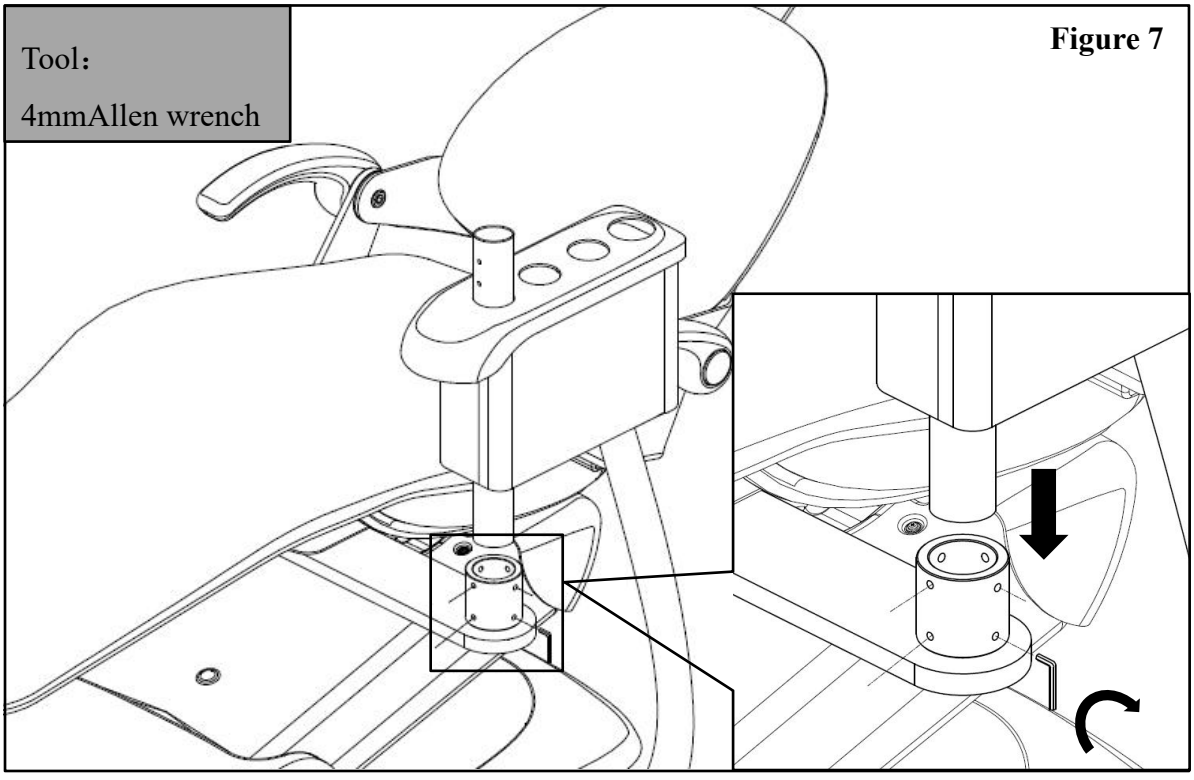


Figure 7

2. Check the levelness of the water unit through a leveling instrument, change the levelness by adjusting the screws on the post.

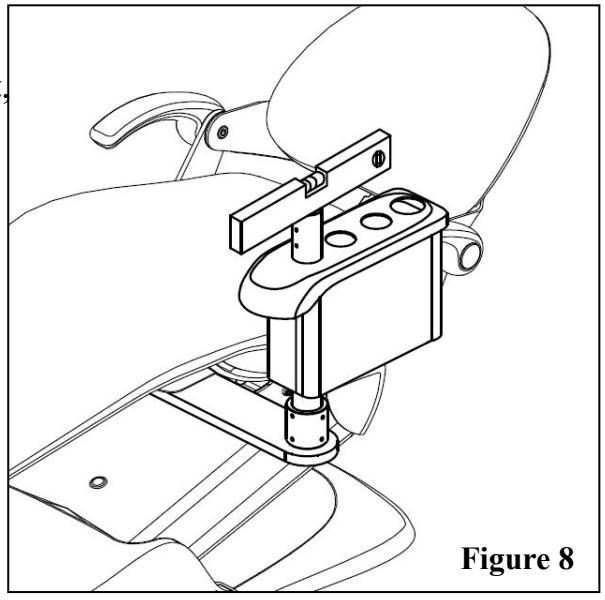
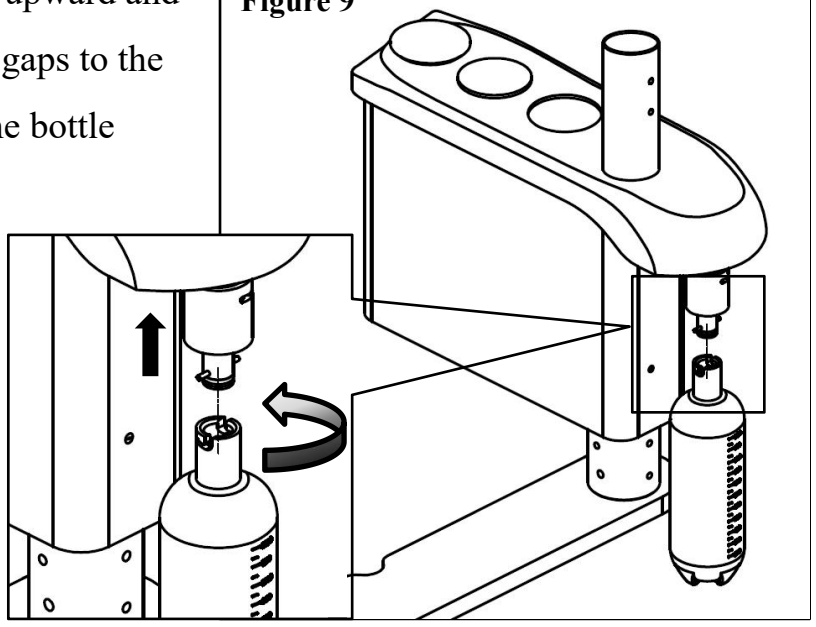


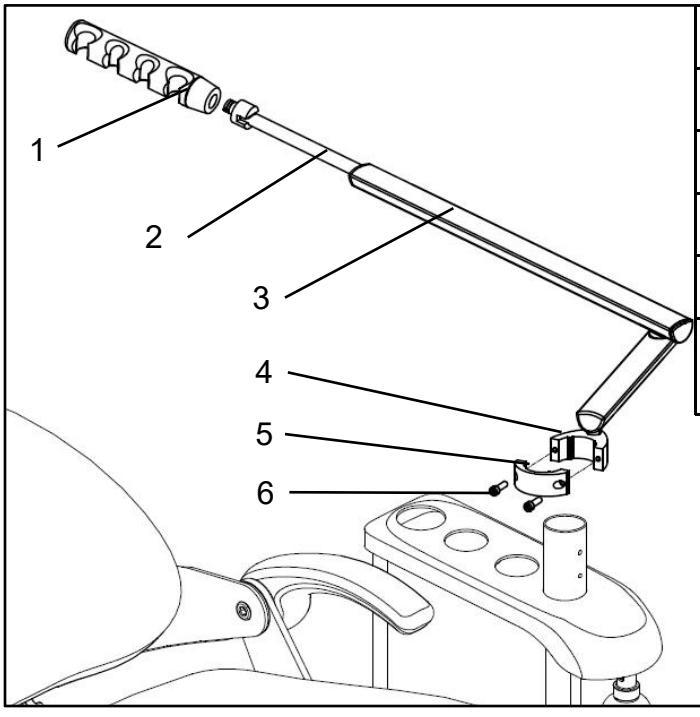
Figure 8

3. Hold the water bottle upward and align the bottle head gaps to the fixing pins, swivel the bottle clockwise to fix it.

Figure 9



6.3 Install the assistant unit



1	AS-5 Instrument holder
2	AS-5 Telescopic bar
3	AS-5 Foldable assistant arm
4	AS-5 Frontstand
5	AS-5 Backstand
6	M6*20 Hexagon socket cap screw

Figure 10

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.

Tool:
5mm Allen wrench

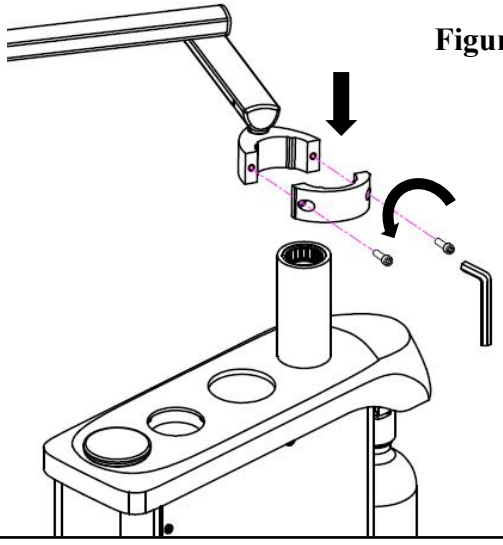


Figure 11

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

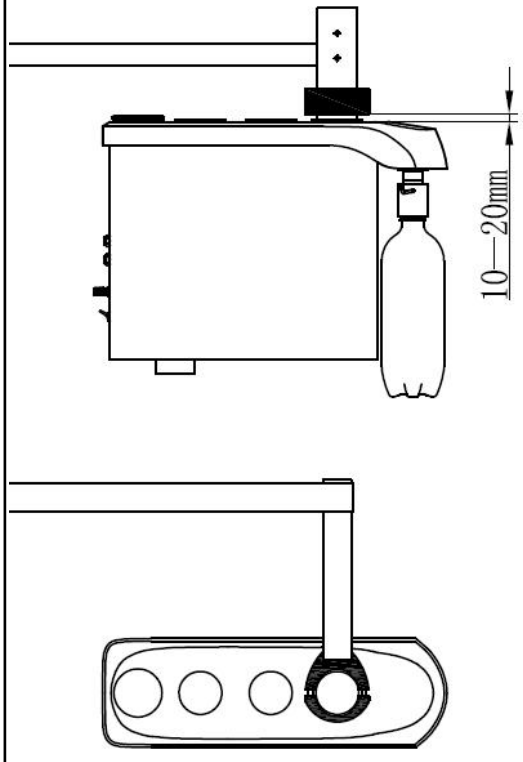


Figure 12

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

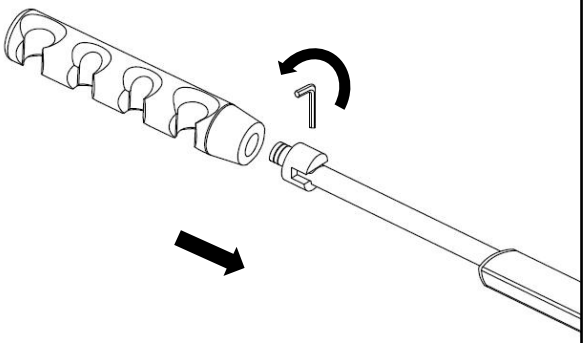
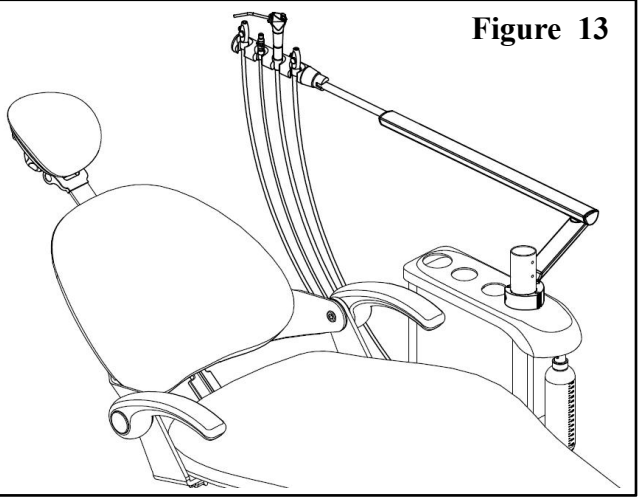


Figure 13

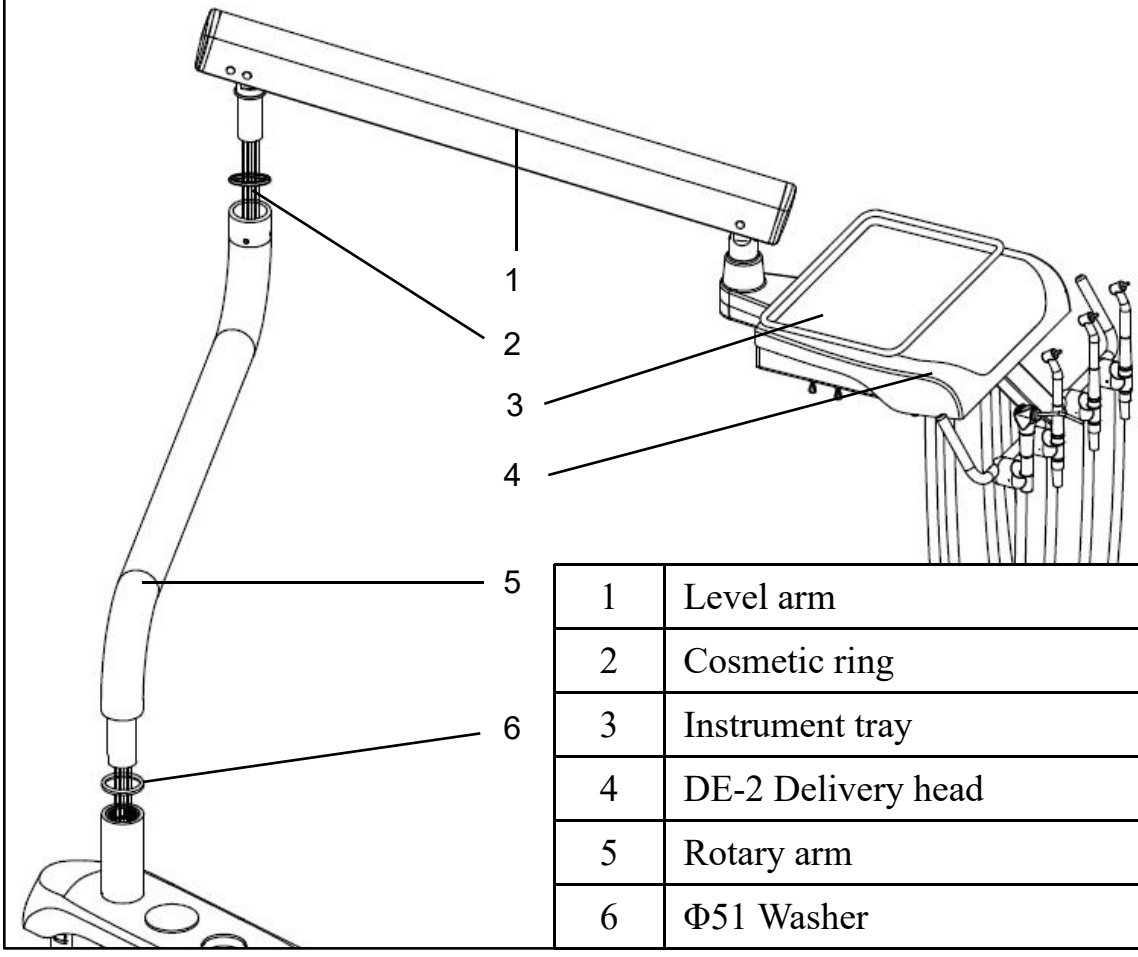
4. Put the HVE & SE valves and 3-way syringe to the holder.

Figure 13



6.4 Install the dentist unit

Figure 14



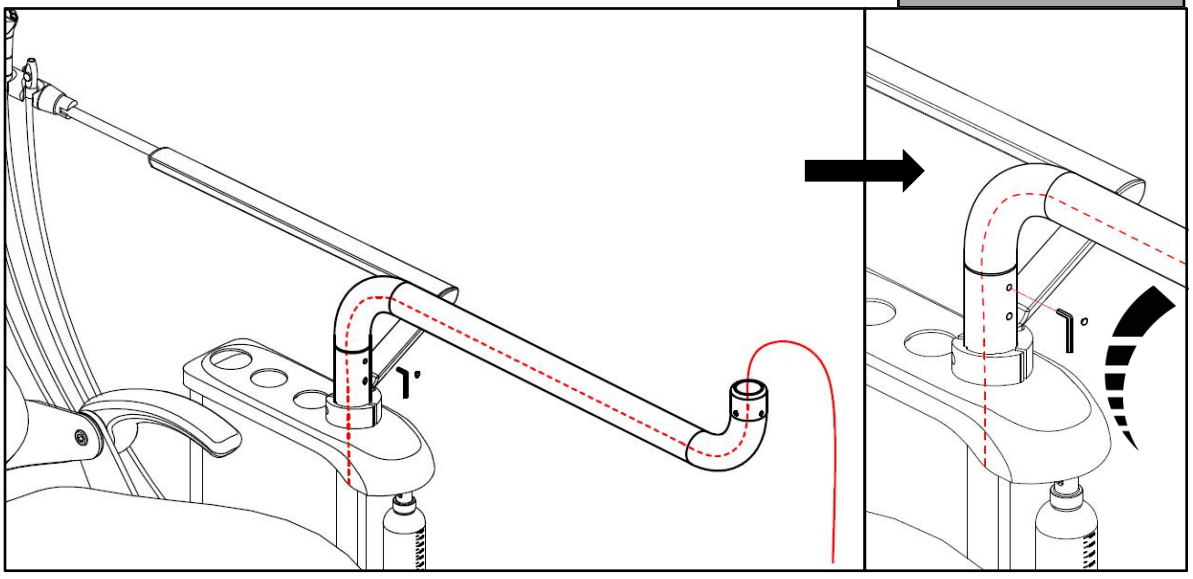
1	Level arm
2	Cosmetic ring
3	Instrument tray
4	DE-2 Delivery head
5	Rotary arm
6	Φ51 Washer

1. Mount the rotary arm to the post of side box and fix it with two M6*8 set screws,then insert two M6 plugs. Reserve the guide line.

   Note: The tension of set screws affects the damping force of the rotary arm .

Tool:
3mm Allen wrench

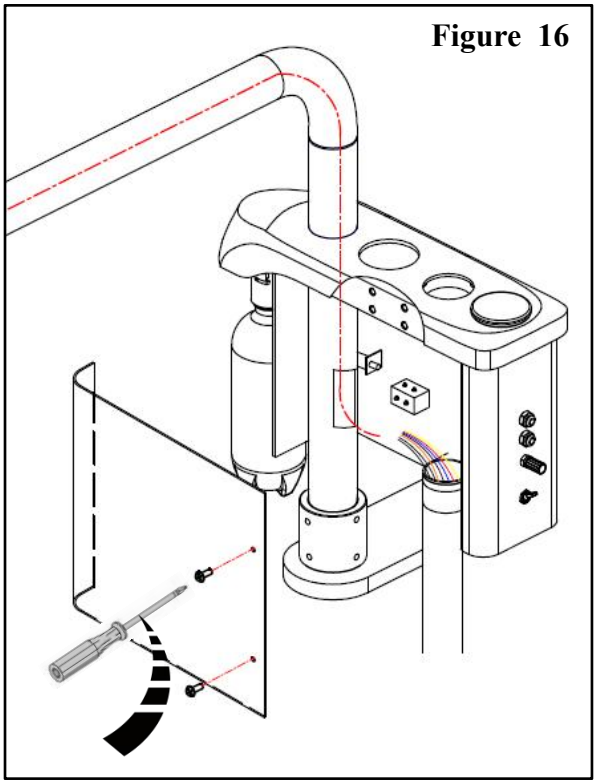
Figure 15



2. Loosen the two screws to remove the cover of the side box, pull out the guide line from the hole of the post.

   Note: Do not throw the screws away.

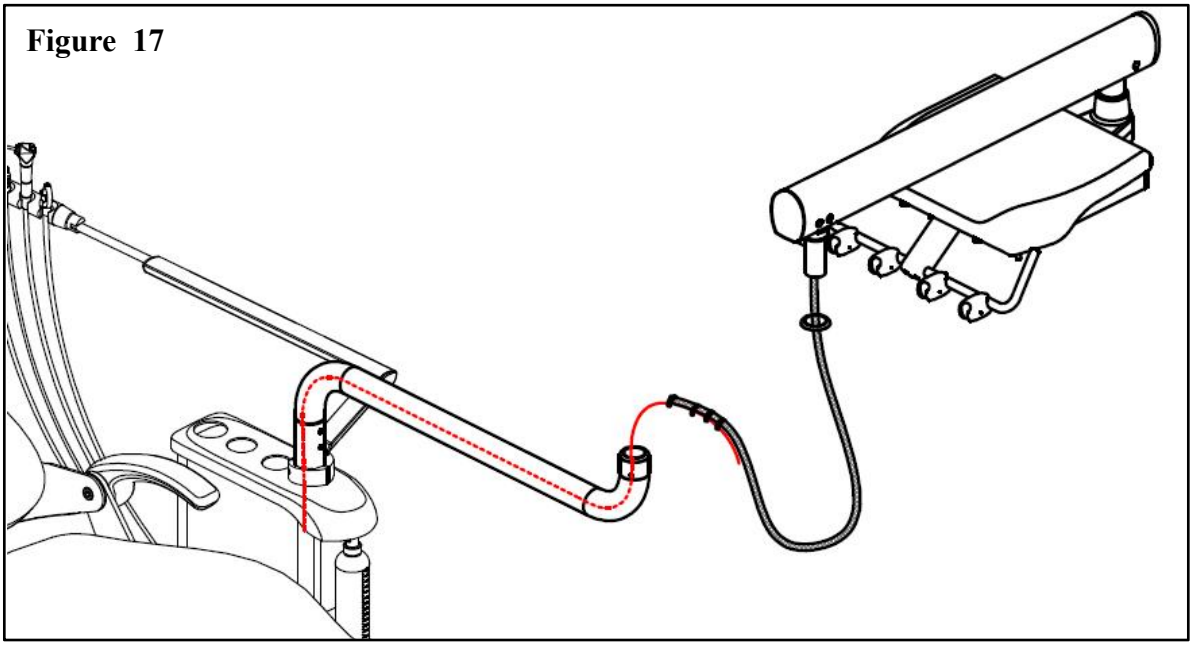
Figure 16



tool:
Philip screw driver

3. Let the wire of level arm pass through a cosmetic ring and bind it with the guide line, pull the guide line to route the wire through the rotary arm .

Figure 17

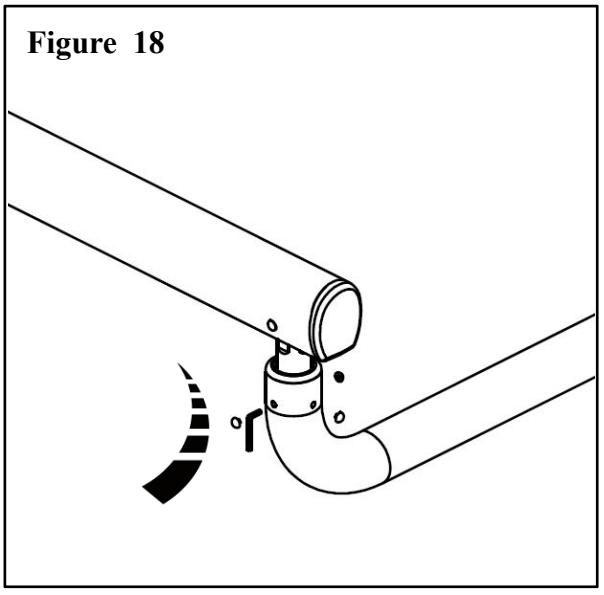


4. Joint the level arm and the rotary arm with three M6*8 set screws,tighten the screws in clockwise.

Note: Tension of the M6 set screw affects the damping force of the rotary arm.

Tool:
3mm Allen wrench

Figure 18



5. Pull out the tubes and wires from the hole of the post, connect the tubes by color and joint the wire terminals.

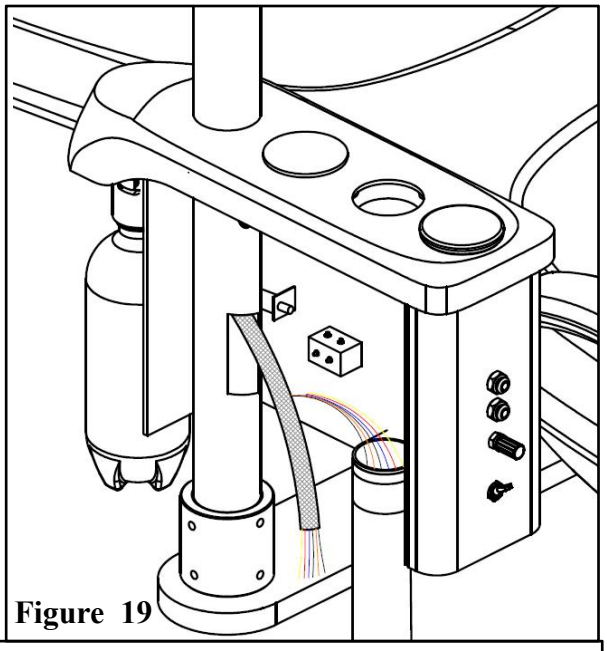
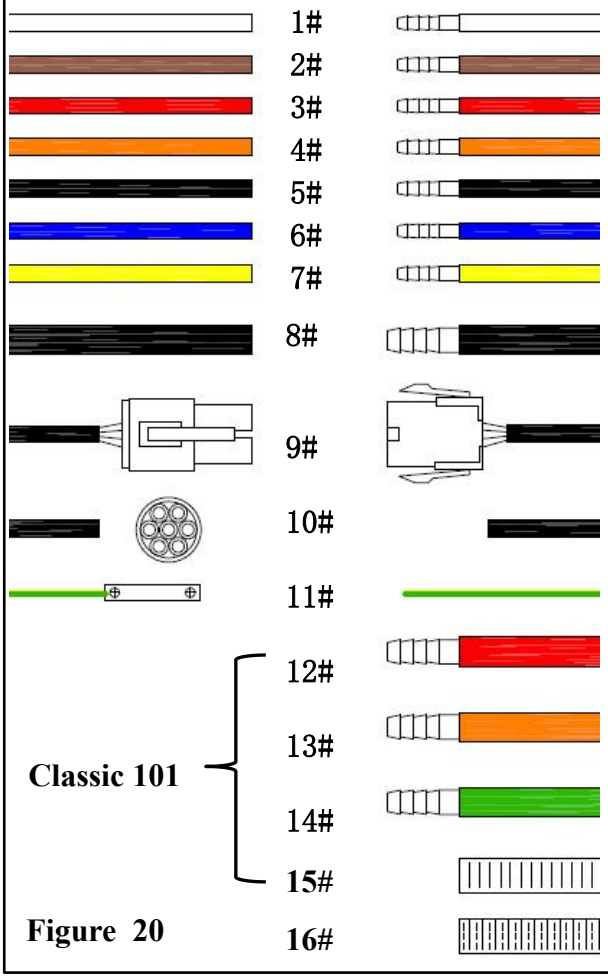


Figure 19

Classic 100/101



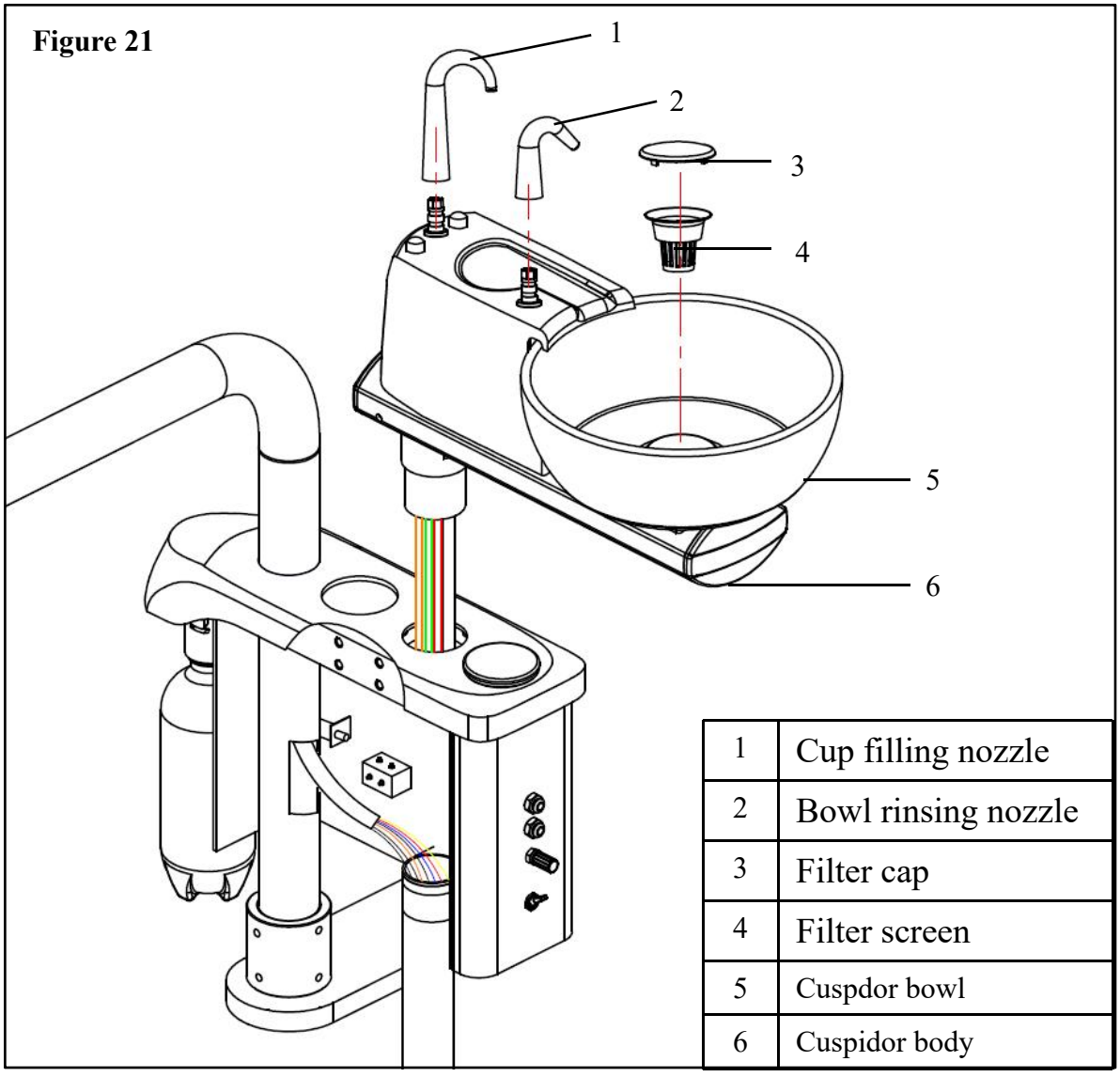
1. 1/8" white
2. 1/8"brown
3. 1/8"red
4. 1/8"orange
5. 1/8"black
6. 1/8"blue
7. 1/8"yellow
8. 1/4"black
9. Control wire of delivery head
10. 7 core power cord
11. Ground wire
12. 1/4"red, for cuspidor
13. 1/4"orange, for cuspidor
141/4" Green, for cuspidor
15. Drainage pipe, connect to cuspidor
16.Drainage pipe, connect to filter

Figure 20

6.5 Install Cuspidor

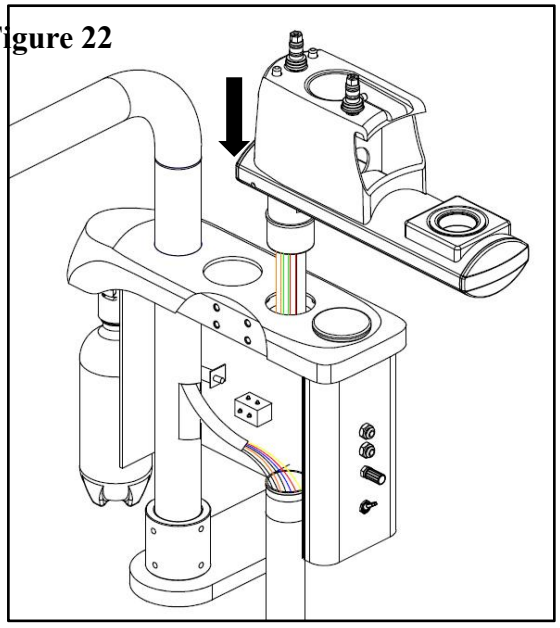
Note: Please ignore this step if there is no cuspidor configuration.

Figure 21



1	Cup filling nozzle
2	Bowl rinsing nozzle
3	Filter cap
4	Filter screen
5	Cuspdor bowl
6	Cuspidor body

Figure 22



1. Pass the tubes through the mounting hole and place the connecting shaft into the mounting base .

2. Connect the tubes to thoses from delivery head and water unit by color. Fasten the laryngeal buckle of the cuspidor drainage pipe.

Figure 23

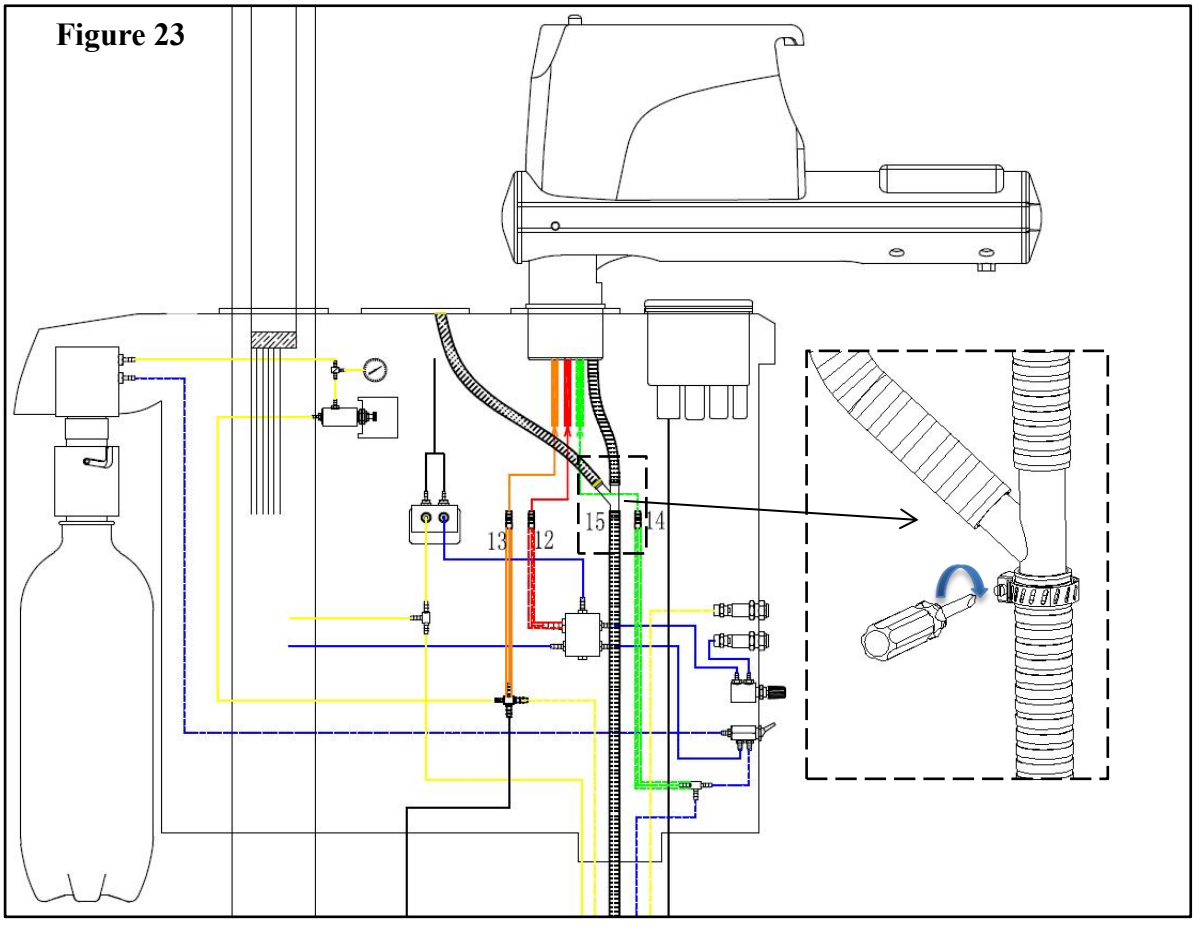
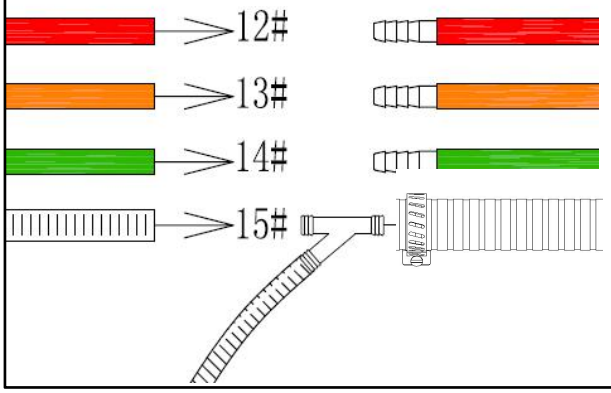
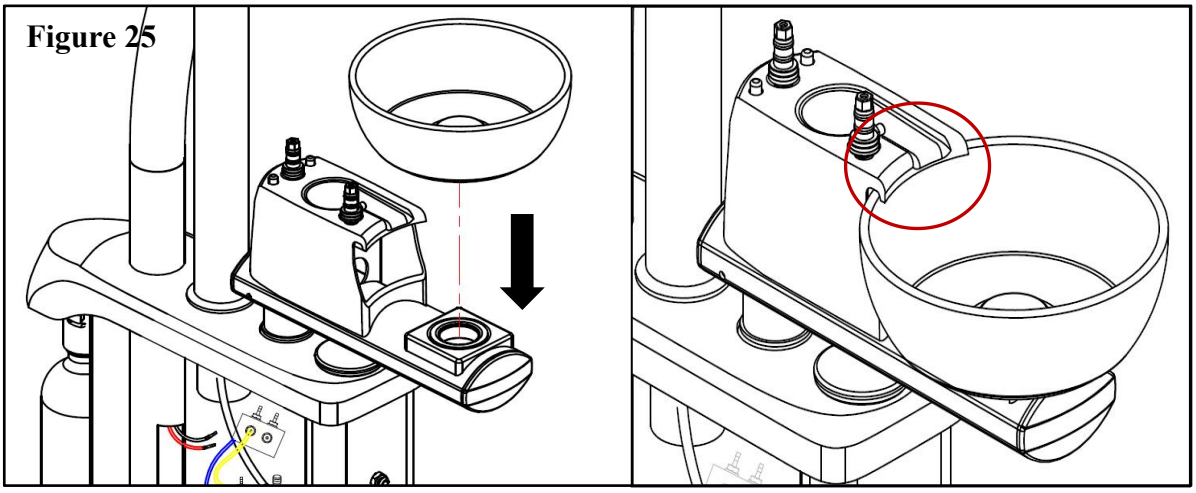


Figure 24



12. 1/4"red, for cuspidor
13. 1/4"orange, for cuspidor
14. 1/4"Green, for cuspidor
15. Drainage pipe, connect to cuspidor

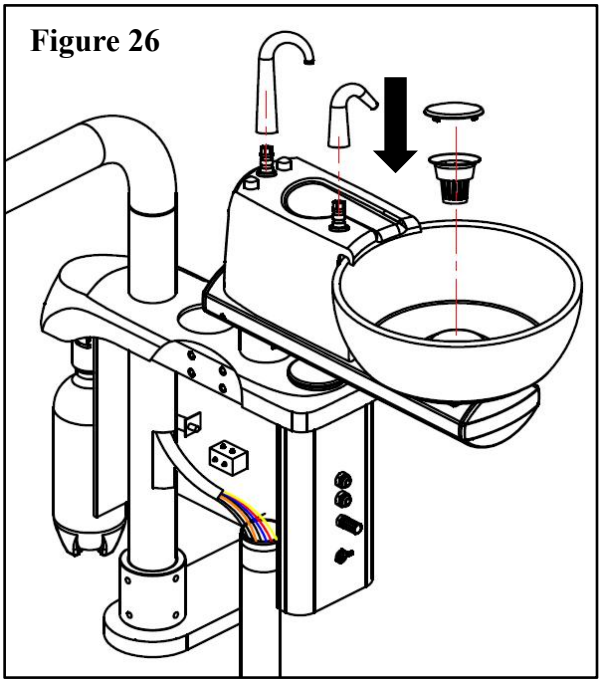
Figure 25



3. Place the cuspidor bowl to its position and fix it on its upper edge.

4. Mount the cup filling nozzle,the bowl rinsing nozzle , the filter cap and the filter screen as the figure shown.

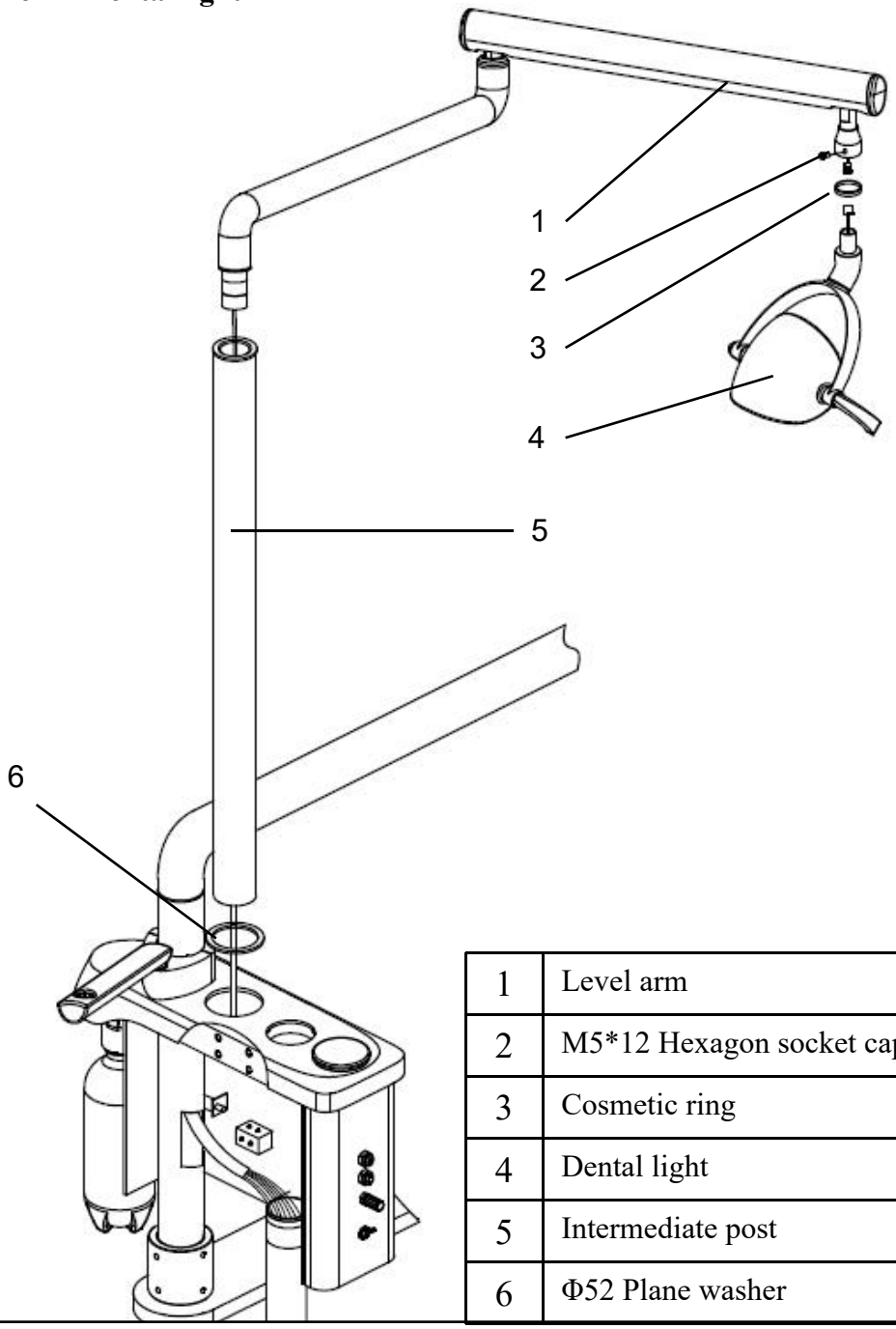
Figure 26



6.6 Install dental light

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

Figure 27 Dental light

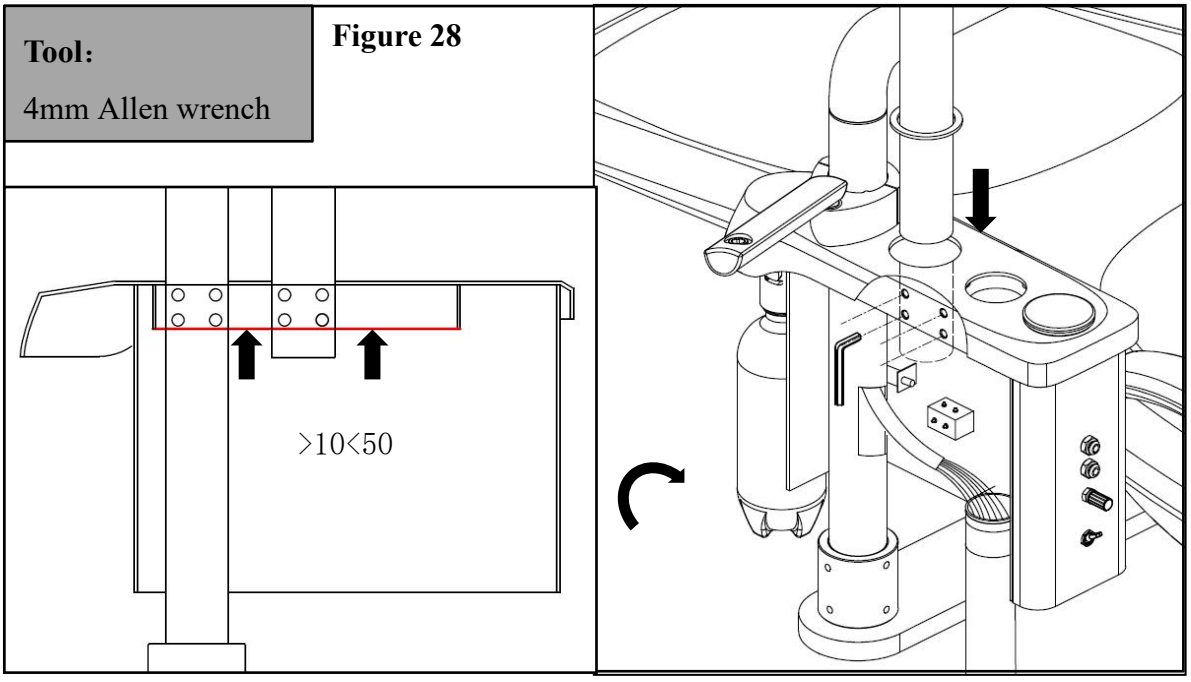


1	Level arm
2	M5*12 Hexagon socket cap screw
3	Cosmetic ring
4	Dental light
5	Intermediate post
6	Φ52 Plane washer

1. Let the intermediate post pass through the plane washer, put the post into the mounting hole and fix the post with M8*10 set screws.(Move the cover of side box upward can tighten the screws easier.)

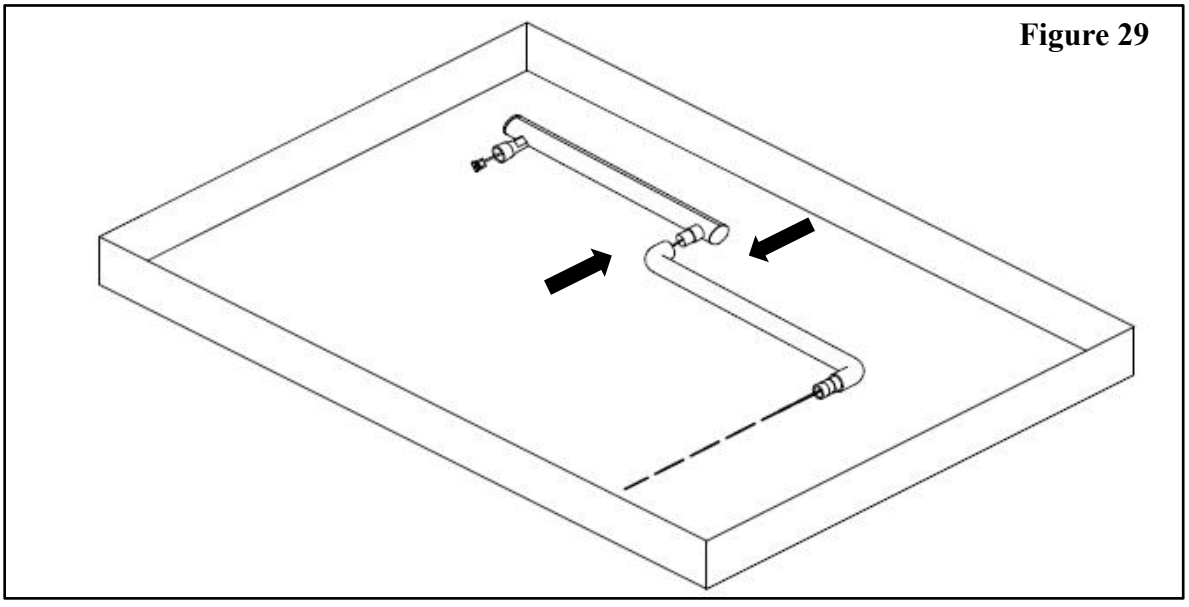
Tool:
4mm Allen wrench

Figure 28



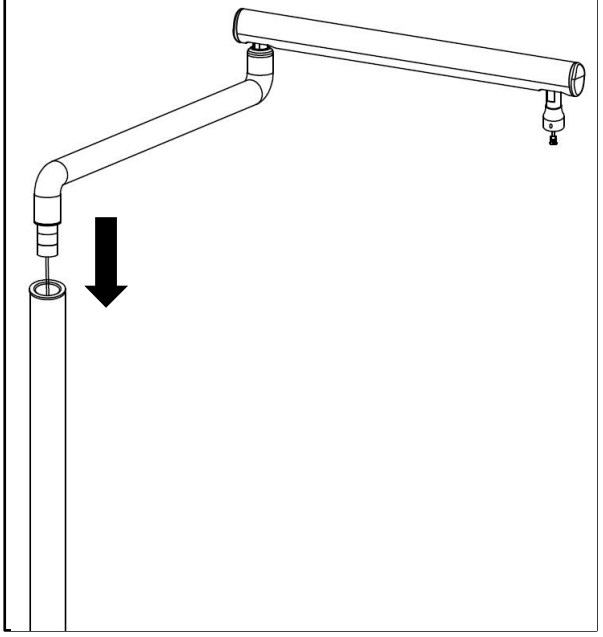
2. Joint the level arm and the rotary arm, take them out from the carton .

Figure 29



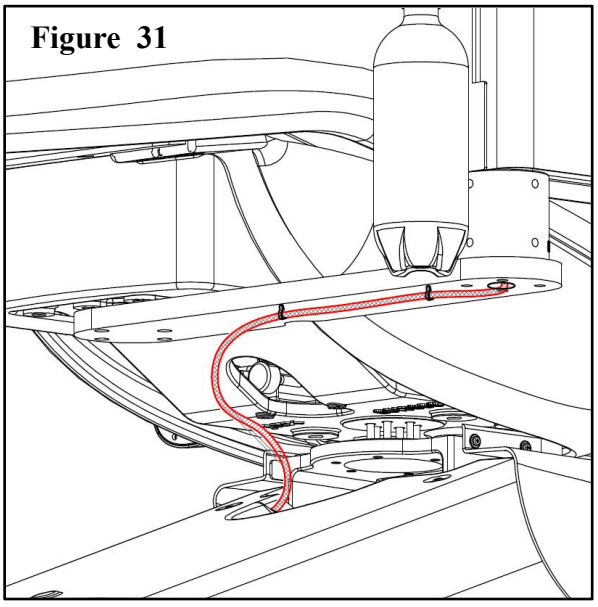
3. Put the connecting shaft of lamp arm into the intermediate post, let the wire pass through the post and reach to the water unit.

Figure 30



4. Fix the reserved light wire to the chair adapter, and pass through the hole of the adapter.

Figure 31



5. Pull out the reserved light wire form the hole,and connect to the light wire from the itermediate post by color.

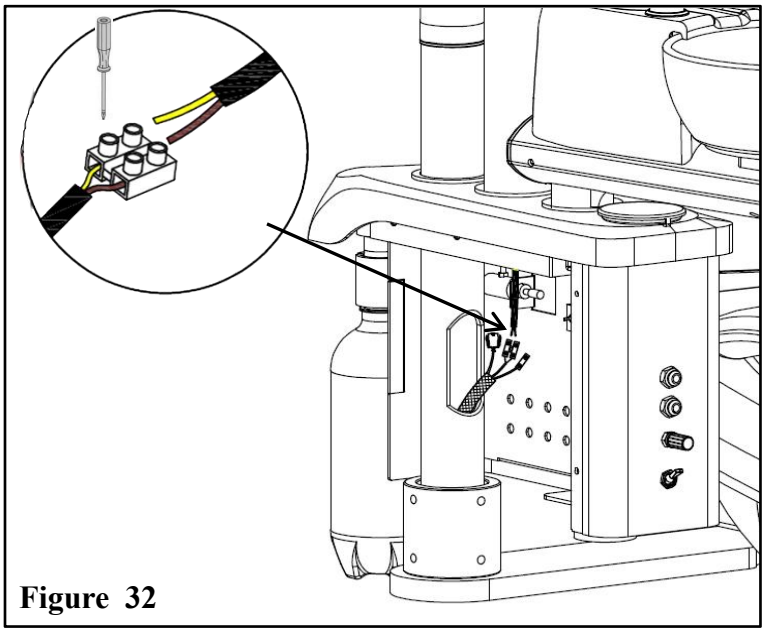
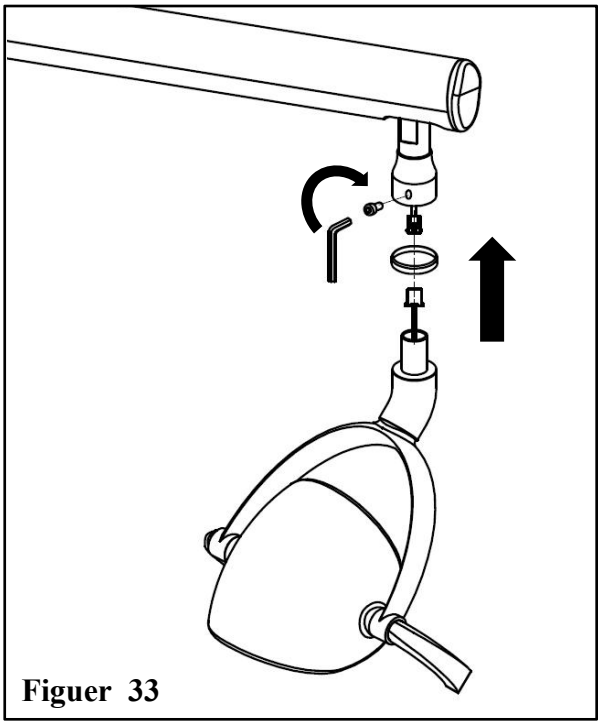


Figure 32

6. 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.

Tool:
4mm Allen wrench



Figuer 33

Note: Close the side box cover and fasten the screws after finishing finishing this step.

6.7 Install junction box

Figure 34 Junction box connections

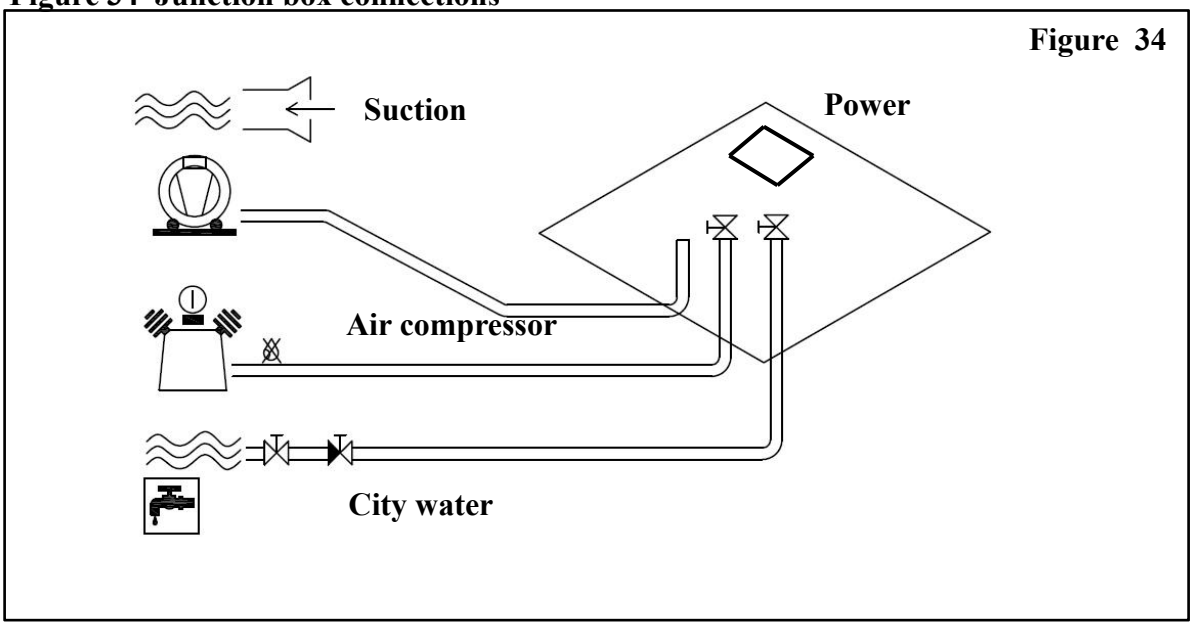
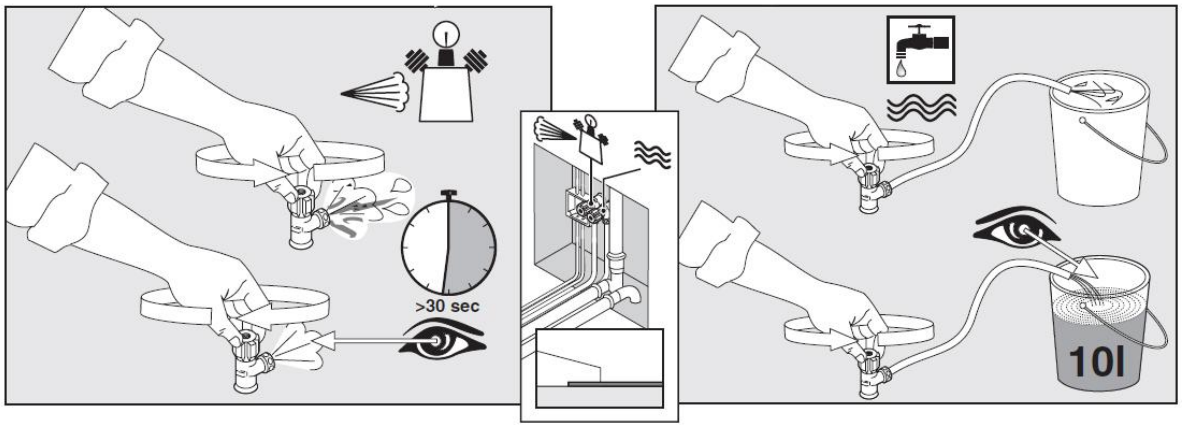


Figure 35 Tubes cleaning before connecting



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.

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





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