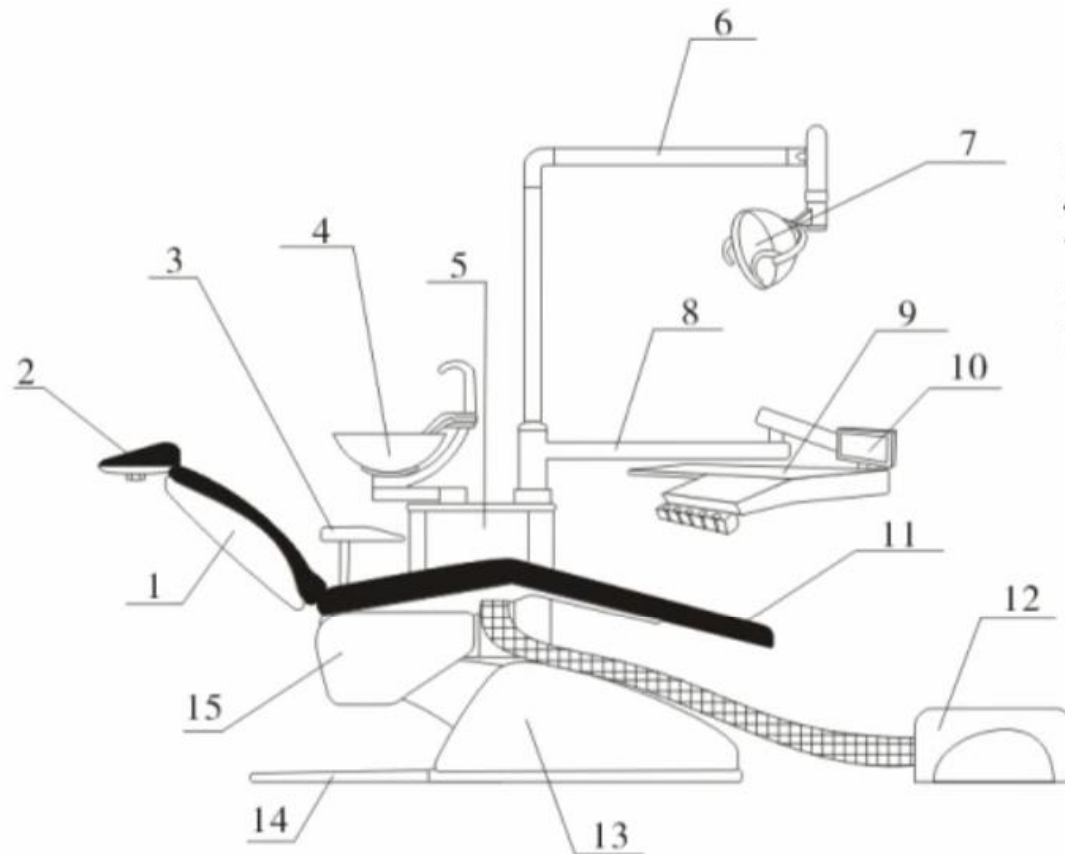


# Structure of dental unit



- |                   |                  |                 |
|-------------------|------------------|-----------------|
| 1. Backrest       | 2. Headrest      | 3. armrest      |
| 4. Spittoon       | 5. Box           | 6. Lamp arm     |
| 7. Mouth lamp     | 8. Pivoted arm   | 9. Tool tray    |
| 10. X-film viewer | 11. Cushion      | 12. Floor box   |
| 13. Front cover   | 14. Bottom cover | 15. Chair frame |

## **Dental Chair Installation**



```
graph LR; A[Dental Chair Installation] --- B[Dental Chair Installation Procedures]; A --- C[Prepare and Adjust]; A --- D[Test]; A --- E[Installation of Covers];
```

**Dental Chair Installation Procedures**

**Prepare and Adjust**

**Test**

**Installation of Covers**

---

# **Dental Chair Installation Procedures**










- Installation Preparation
- Unpack and Inspection
- Installation of Dental Patient Chair
- Installation of Support Center
- Route the Umbilical
- Installation of Assistant's Instrumentation
- Installation of Spittoon
- Installation of Delivery system
- Installation of Operating Light
- Install Display(Optional)
- Connect Power and Air Pipeline
- Installation of Upholstery

# Dental Chair Installation Procedures

## --Installation Preparation

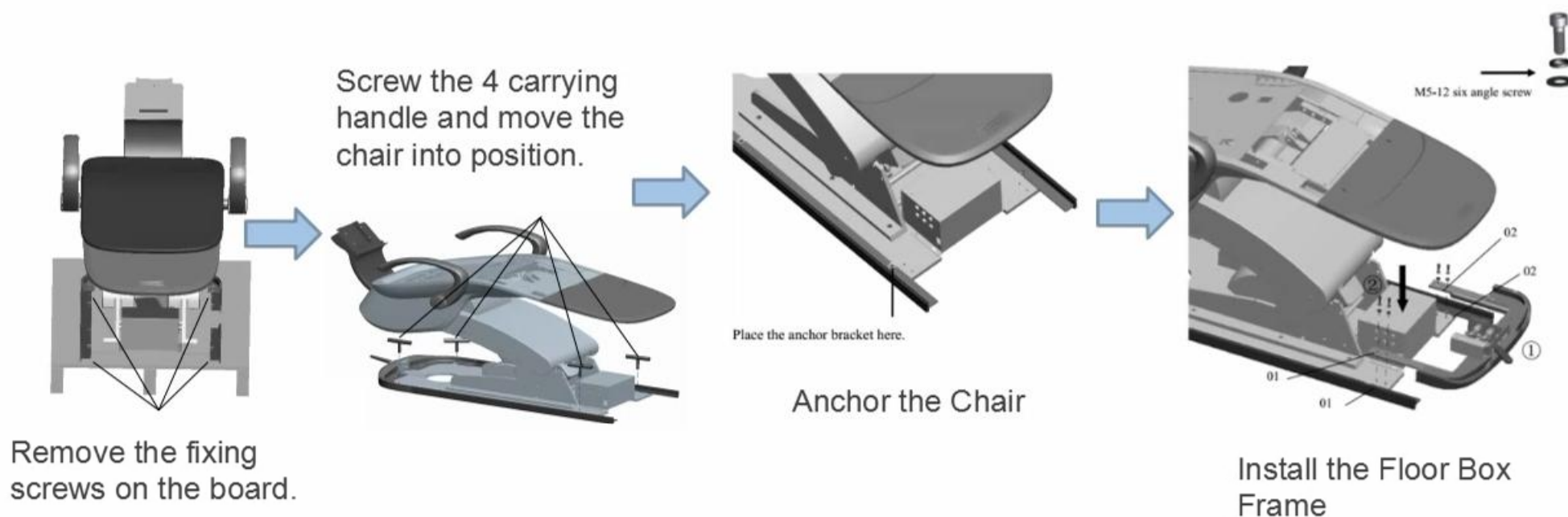
To install the dental chair, we should firstly decide where to install the machine according to the overall arrangement, lighting and availability of the clinic. So we should Clear the room of all debris and thoroughly clean the floors; Check that air and water shut-offs are turned off; Purge any debris from air and water lines; Check with local building and code authorities about installation requirements. They differ from state to state and internationally.



Hex key set		Phillips head screwdriver	
Nipper pliers		Standard screwdriver	
12" monkey spanner × 4 sets		Drill	
8.5 mm drill		10.5mm percussion drilling	
S8 sleeve		Cutter	

# Dental Chair Installation Procedures

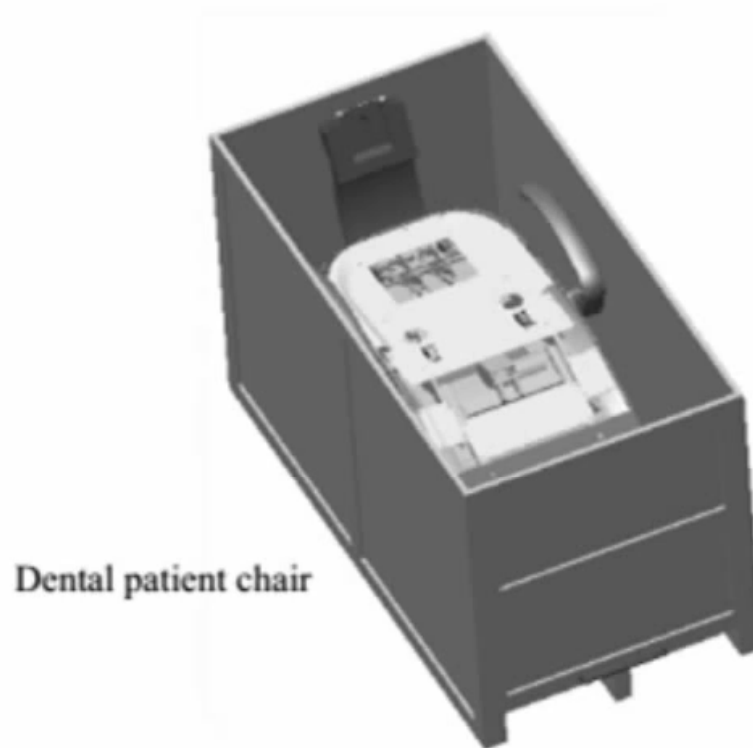
## --Installation of Dental Patient Chair



# Dental Chair Installation Procedures

## --Unpack and Inspection

Unpack the case to verify that the whole machine is intact.



Dental patient chair



If the floor of your clinic is a Concrete Floor, please use the follow type to install the patient chair.

1. Place the anchor bracket on the chair's base.
2. Mark where to drill the hole for the masonry anchor and move the chair.
3. Use a hand drill and a 10 mm diameter masonry bit to drill a 100 mm deep hole for the floor anchor.
4. Drive the M10 anchor into the hole until the washer is flush with the floor. Tighten the bolt so the anchor expands.
5. Remove the anchor bolt and washer.
6. Reposition the chair.
7. Align the anchor bracket with the expandable concrete anchor.
8. Insert the anchor bolt and washer through the anchor bracket and into the expandable concrete anchor. Tighten the lot until it is snug against the anchor racket.
9. Reposition the chair.





If the floor of your clinic is a Wood Floor, please use the follow type to install the patient chair.

1. Place the anchor bracket on the chair's base.
2. Mark where to drill the hole for the lag screw and move the chair.
3. Use a drill and a 8.5 mm drill bit to drill a 50 mm deep hole for the lag screw.
4. Reposition the chair.
5. Align the anchor bracket with the hole.
6. Insert the M10-50 lag screw through the anchor bracket and into the hole. Tighten the lag screw until it is snug against the anchor racket.



**Please notice:**



Anchoring the chair to the floor is required for mechanical stability. Failure to anchor properly could result in damage, serious injury, or death. Check the flooring and/or framing material where you will anchor the chair. If it is not at least 82mm thick, contact a licensed contractor about reinforcing the floor. When Reposition the chair, Assure the tubing and wires are positioned properly so they are not cut or pinched.

For the last part Install the Floor Box Frame, please Place the frame on the chair a hole on the frame alignment thread the hole on the floor of patient chair first. Then you should Use M5 screw from the kit, placed a spring pad and a washer on each mounting bolt to secure the frame.

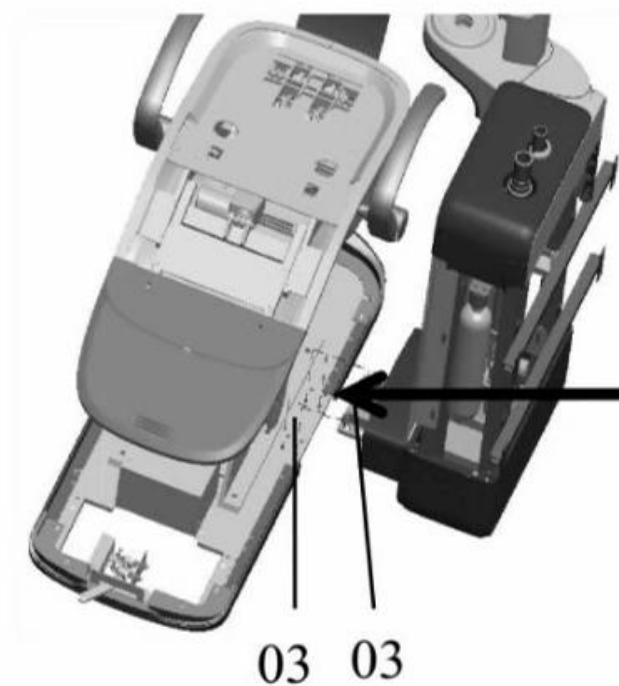
# Dental Chair Installation Procedures

--Installation of Support Center

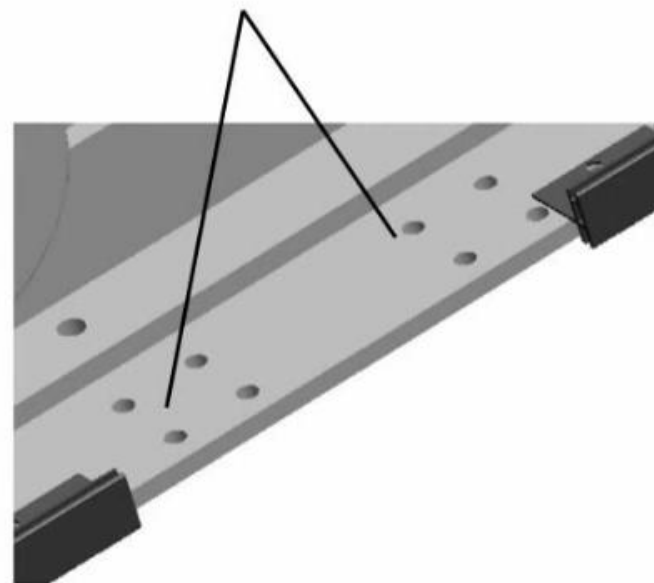
1

Remove the fixing screw  
on the wood board.



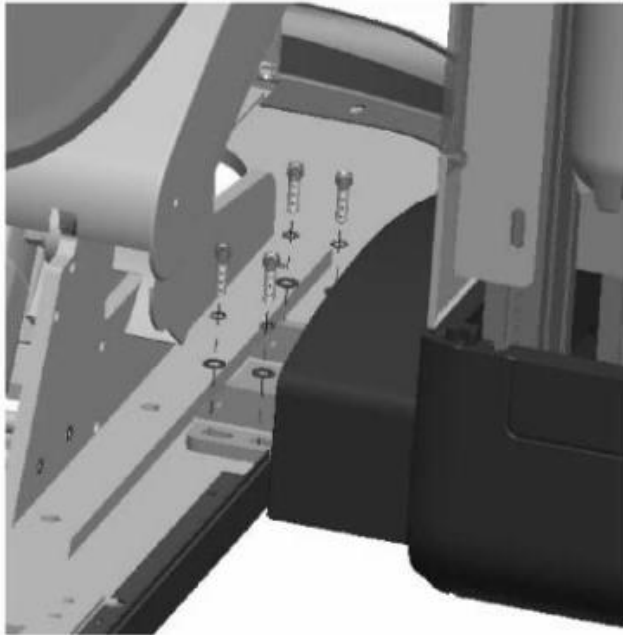


①. Use the previous two groups of screw.



**2**

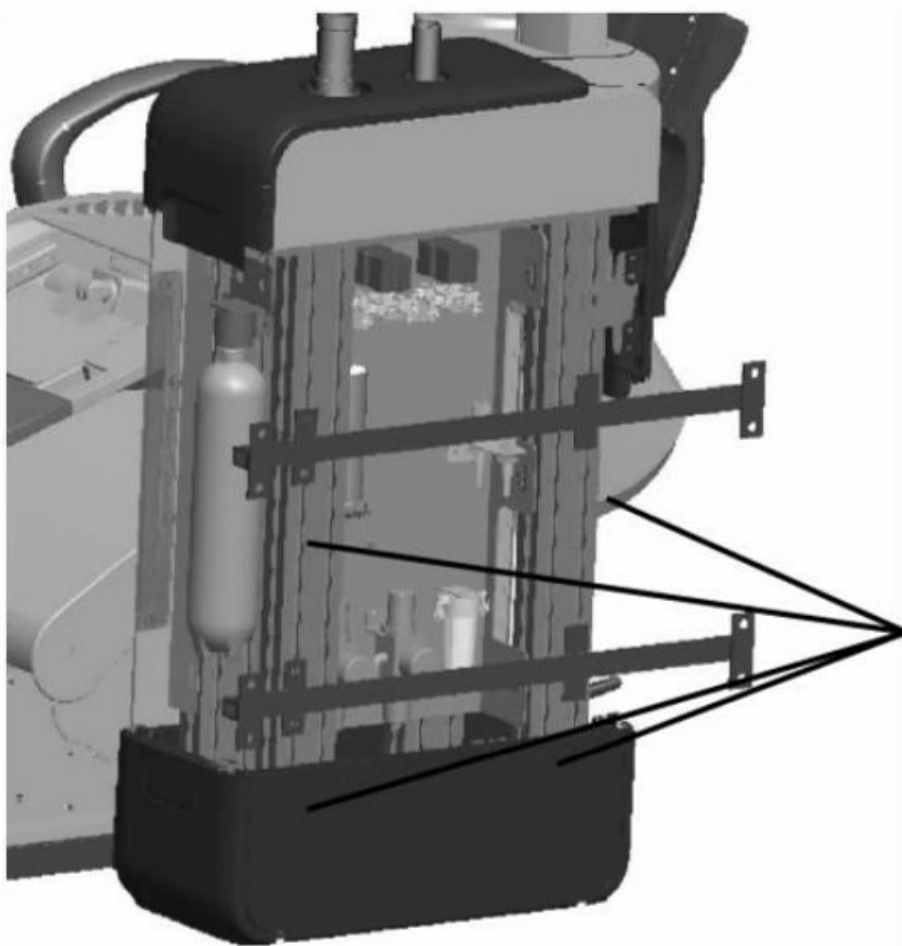
Place the support center on the chair, a hole on the support center alignment thread the hole on the floor of patient chair.



M10-20 six angle screw

3

Use M10 screw from the kit, placed a spring pad and a washer on each mounting bolt to secure the support center.



4

Remove fixing screws and the packing frame.



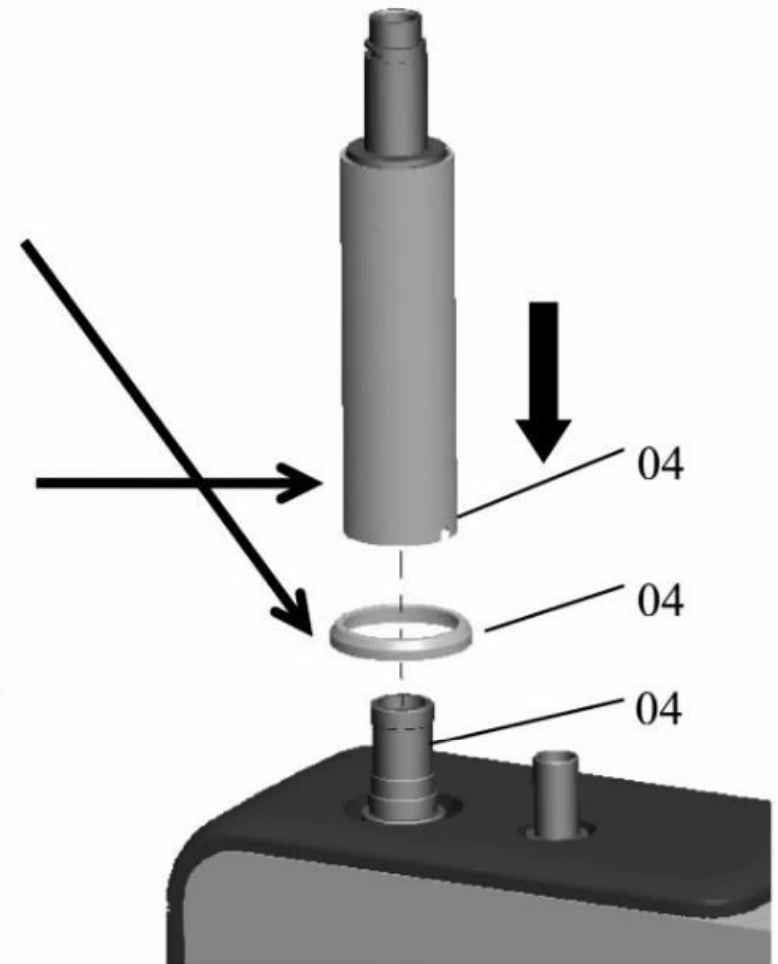
5

Place the cover on the top of delivery system pillar.

6

Insert upright column of dental unit into delivery system pillar.

Note: Correct positioning of upright column of dental unit, ensure the limiting screw card into the limiting groove.



# Dental Chair Installation Procedures

## --Route the Umbilical

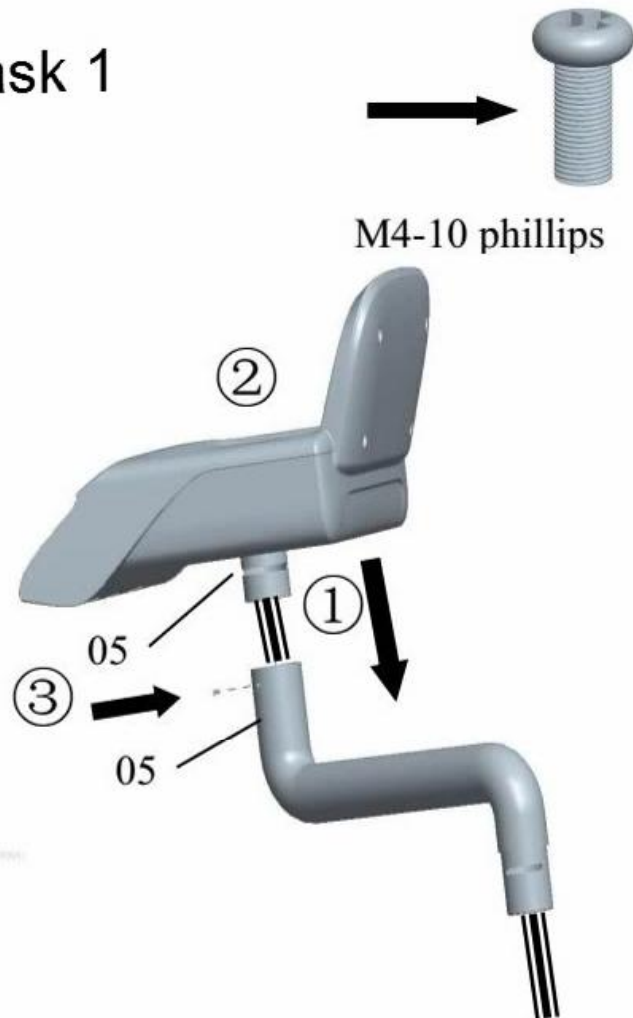


Assure the tubing and wires are positioned properly so they are smoothly and not cut or pinched.

# Dental Chair Installation Procedures

--Installation of Assistant's Instrumentation

## Task 1

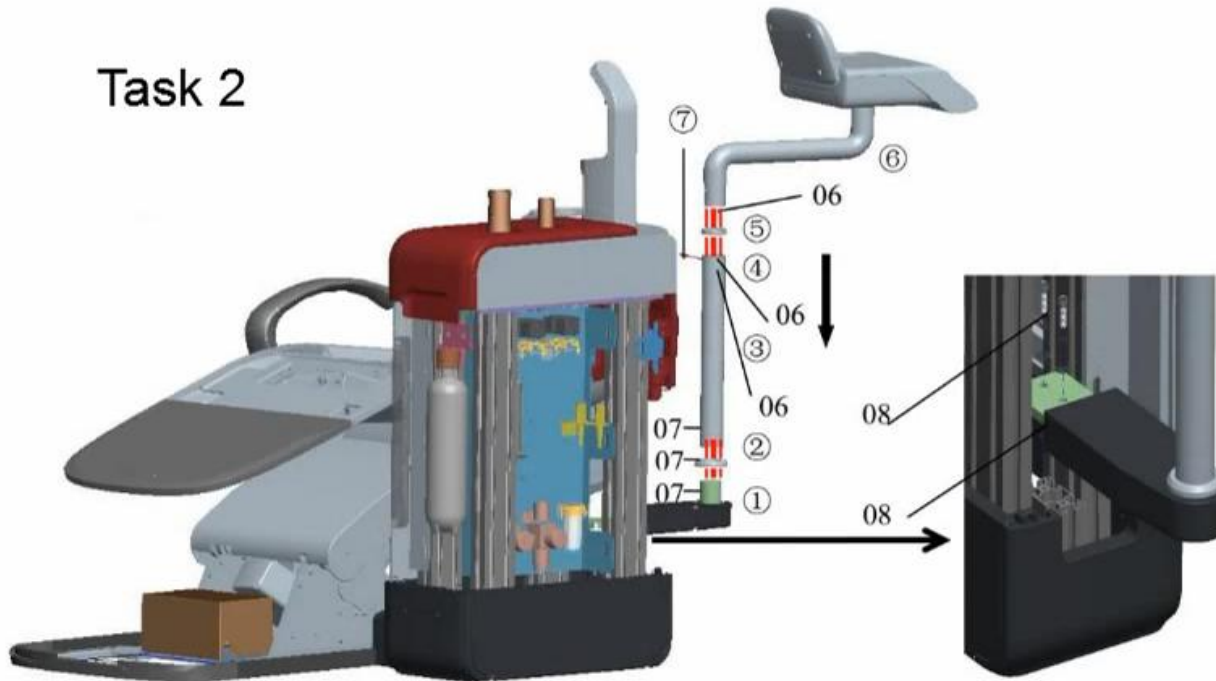


① The pipeline passes downwardly through a bull stick.

② Insert the Assistant's Instrumentation into the bull stick.

③ Use M4 screws in the kit to limit the Assistant's Instrumentation.

## Task 2



① Use this screw from the kit, placed a spring pad and a washer on each mounting bolt to install the pillar on the support center.

② Place the cover on the top of Assistant's Instrumentation pillar.

③ Place the fulcrum bar of Assistant's Instrument inside the Assistant's Instrumentation pillar.

④ Place the circle on the top of fulcrum bar of Assistant's Instrument.

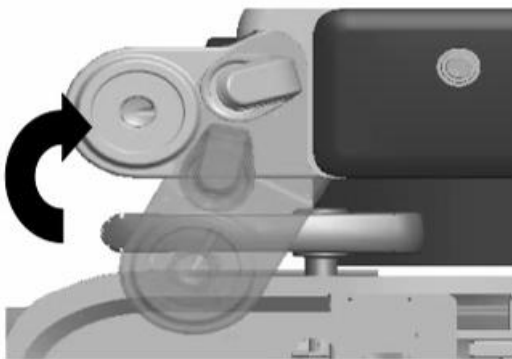
⑤ The pipeline passes downwardly through a fulcrum bar of Assistant's Instrument.

⑥ Insert the bull stick of Assistant's Instrument into the fulcrum bar of Assistant's Instrument.

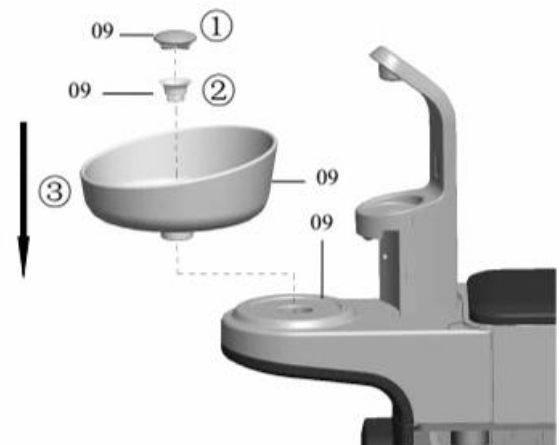
⑦ Use M4 screws in the kit to limit the bull stick of Assistant's Instrument.

# Dental Chair Installation Procedures

--Installation of Spittoon



Move the spittoon to unused state.



Install the spittoon screen cover, spittoon screen and spittoon.



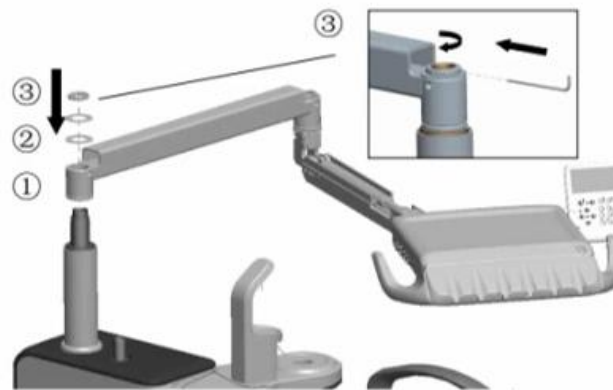
# Dental Chair Installation Procedures

- Installation of Delivery system

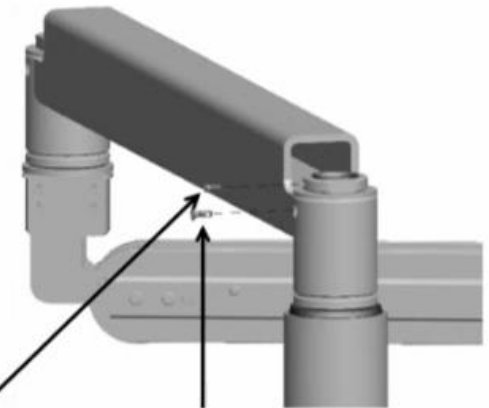
For low-mounted:



Pick up the delivery system, put it over your shoulder and then install it. Holds the balance arm and fix the instrument tray.

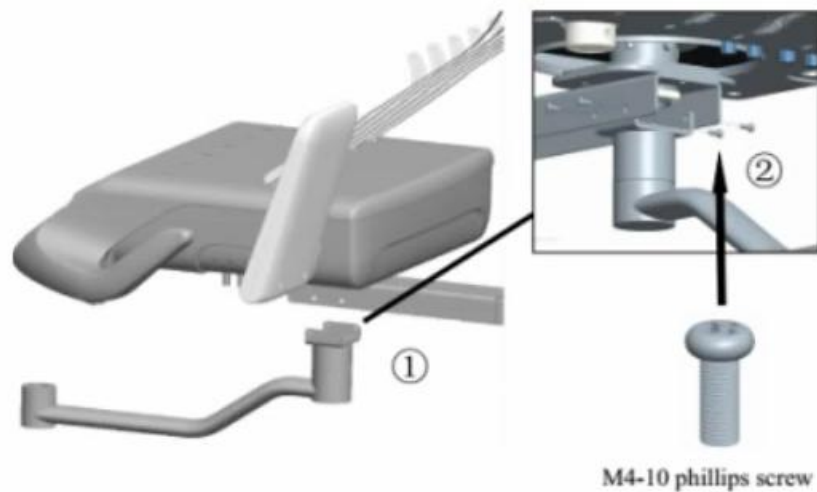


Place the dental unit arm inside the upright column of delivery system and tighten the nut.

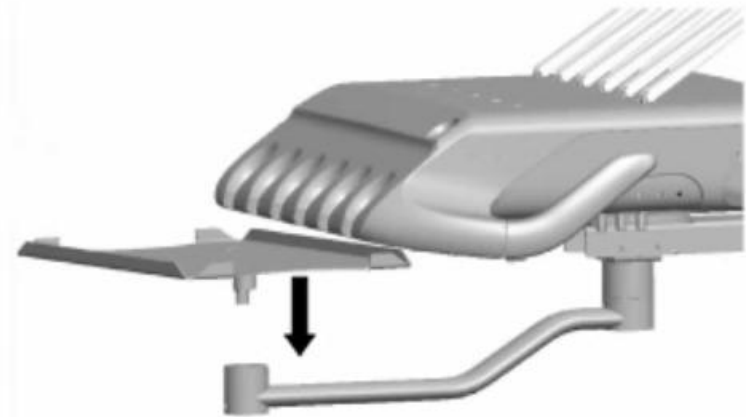


Use screws in the kit to provide the nut from loosening and limit the tumbler of delivery system.

For top-mounted:



Place the hanging tray inside the connector and aim at the installing hole, then Use screws to fix the hanging tray.



Place the hanging tray inside the connector and aim at the installing hole.

# Dental Chair Installation Procedures

--Installation of Operating Light and  
Light Arm

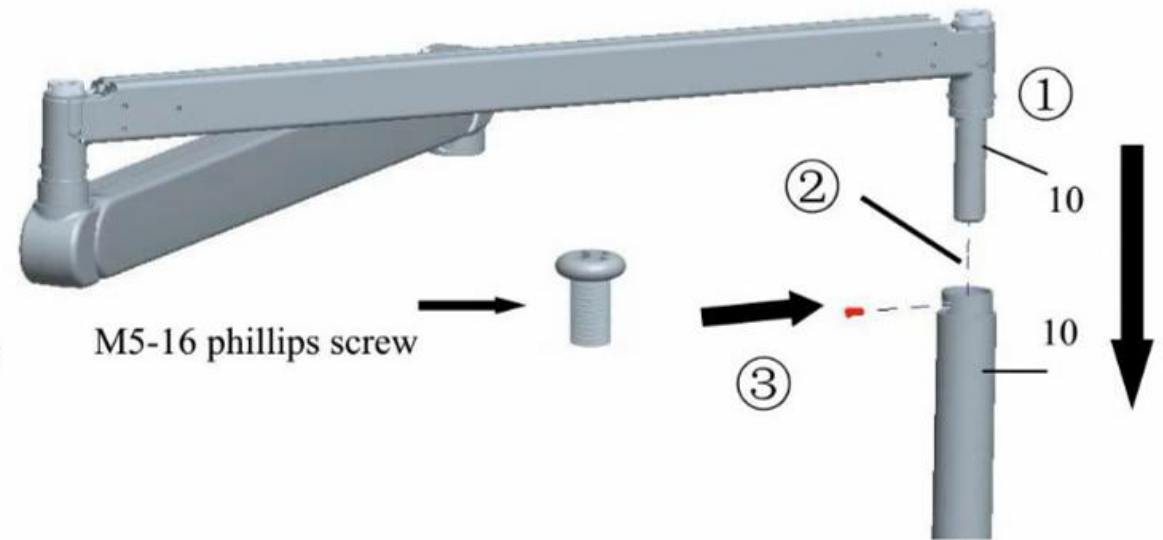
1

Open the light arm cover  
and tumbler cover.



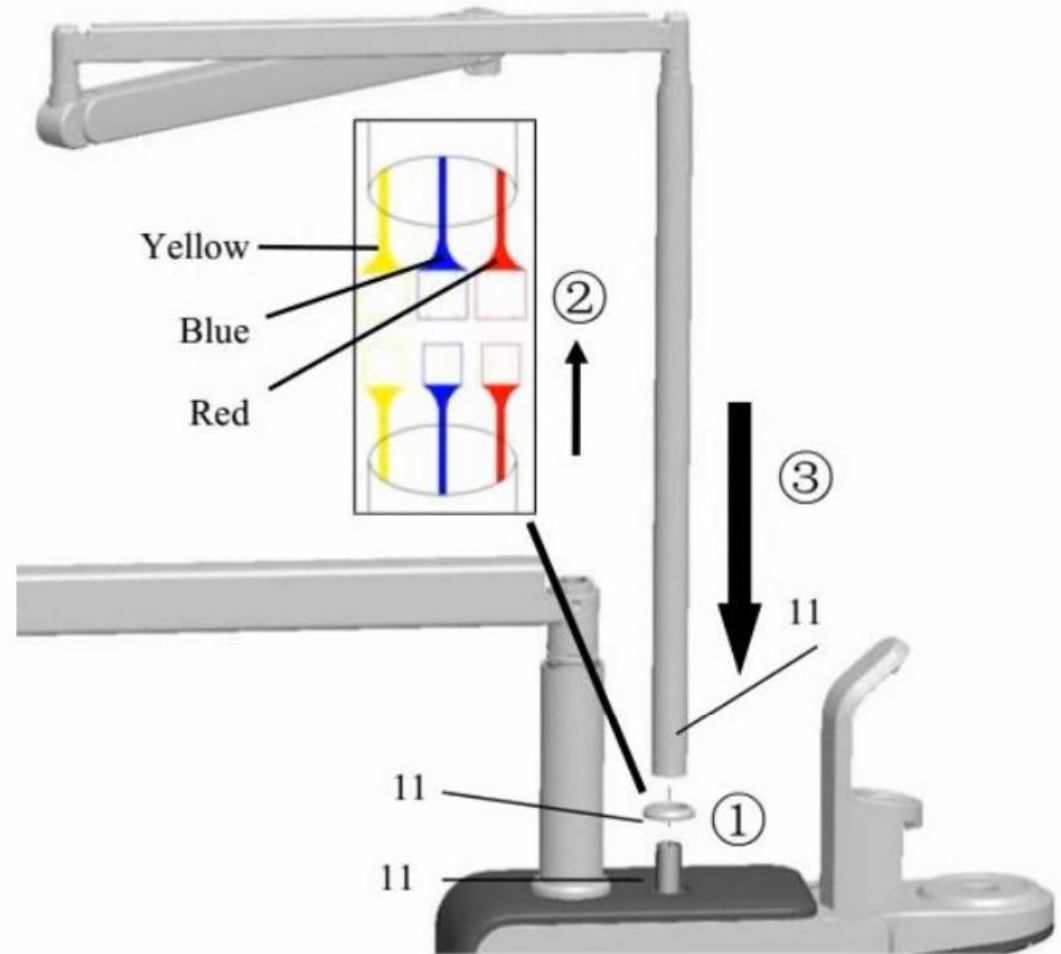
2

Insert the operating light arm into upright column of delivery system then fix the light arm



3

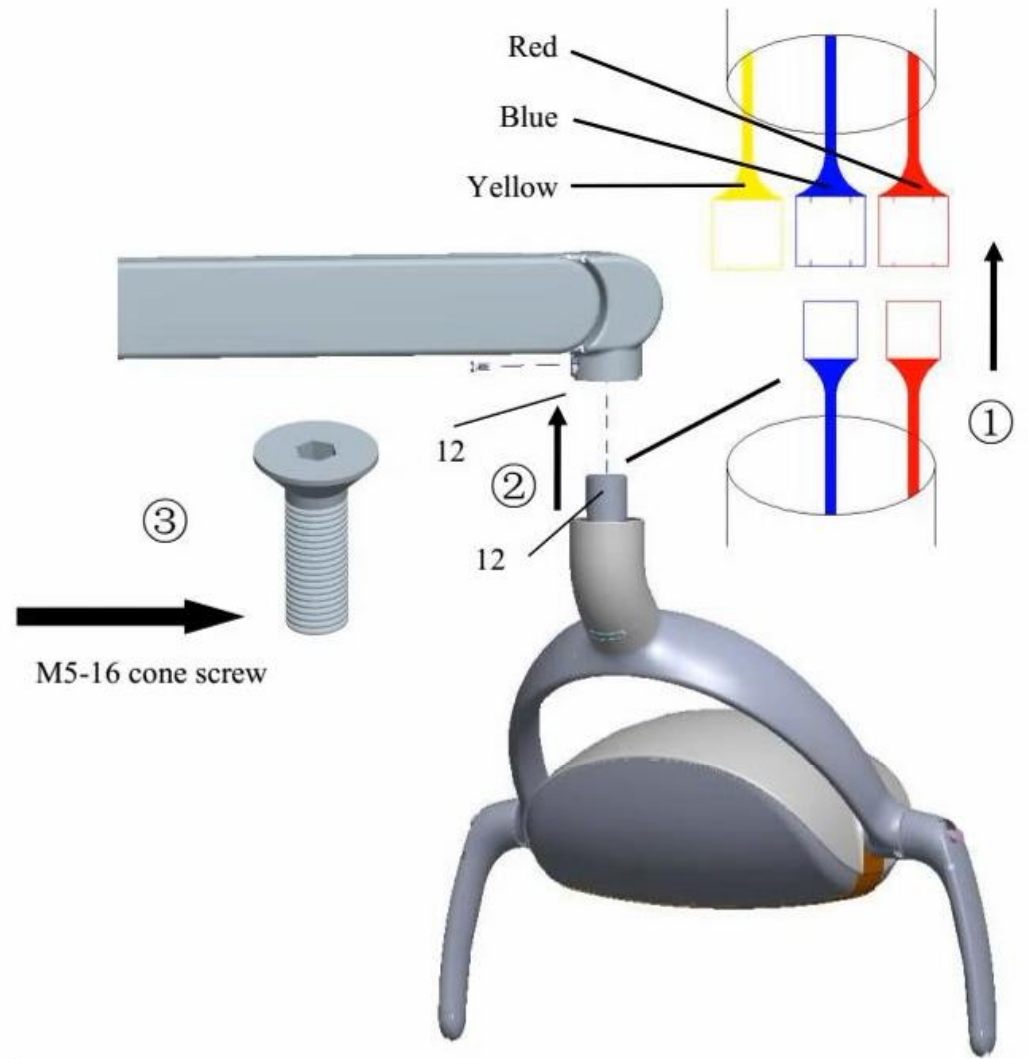
Connect the same color joint  
then Insert the operating light  
stele into the operating light  
pillar





4

Connect the same color joint then Insert the operating light into the light arm and fix the lamp.



# Dental Chair Installation Procedures

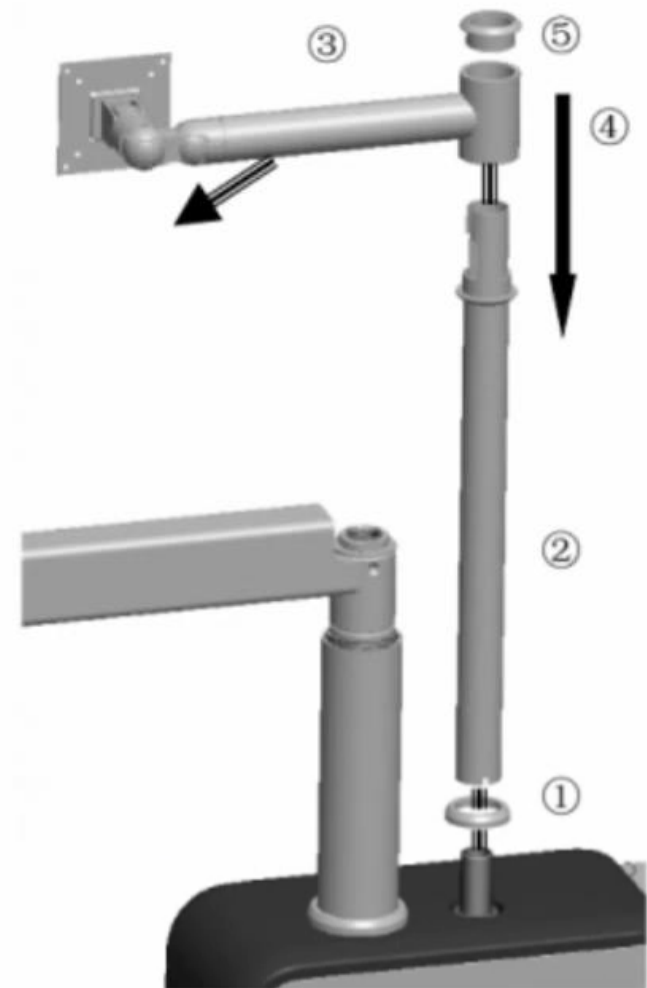
--Install Display(Optional)

1

## Install the display frame to the operating light pillar.

Installation method is as follows:

- ① Place the cover on the top of operating light pillar.
- ② Insert the display stand bar into operating light pillar.
- ③ Enter the wire into display frame and pull-out in the direction of the arrow.
- ④ Saddled up the display frame.
- ⑤ Insert the circle of display frame.



2

Insert the pillar connecting shaft and Install the light arm



①. Insert the pillar connecting shaft.

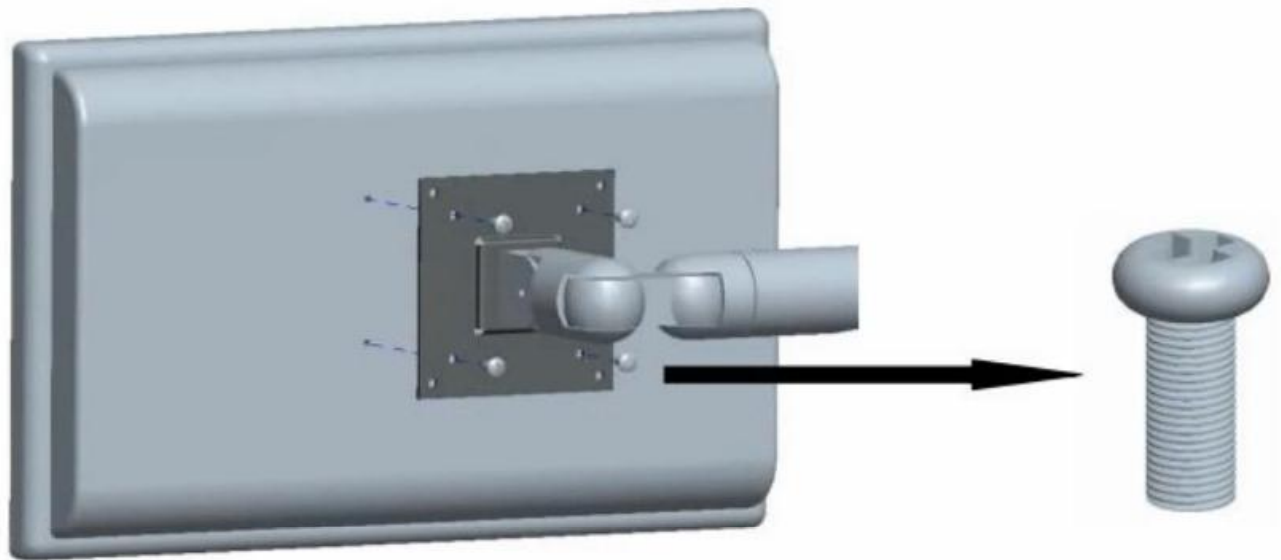


②. Install the light arm.



3

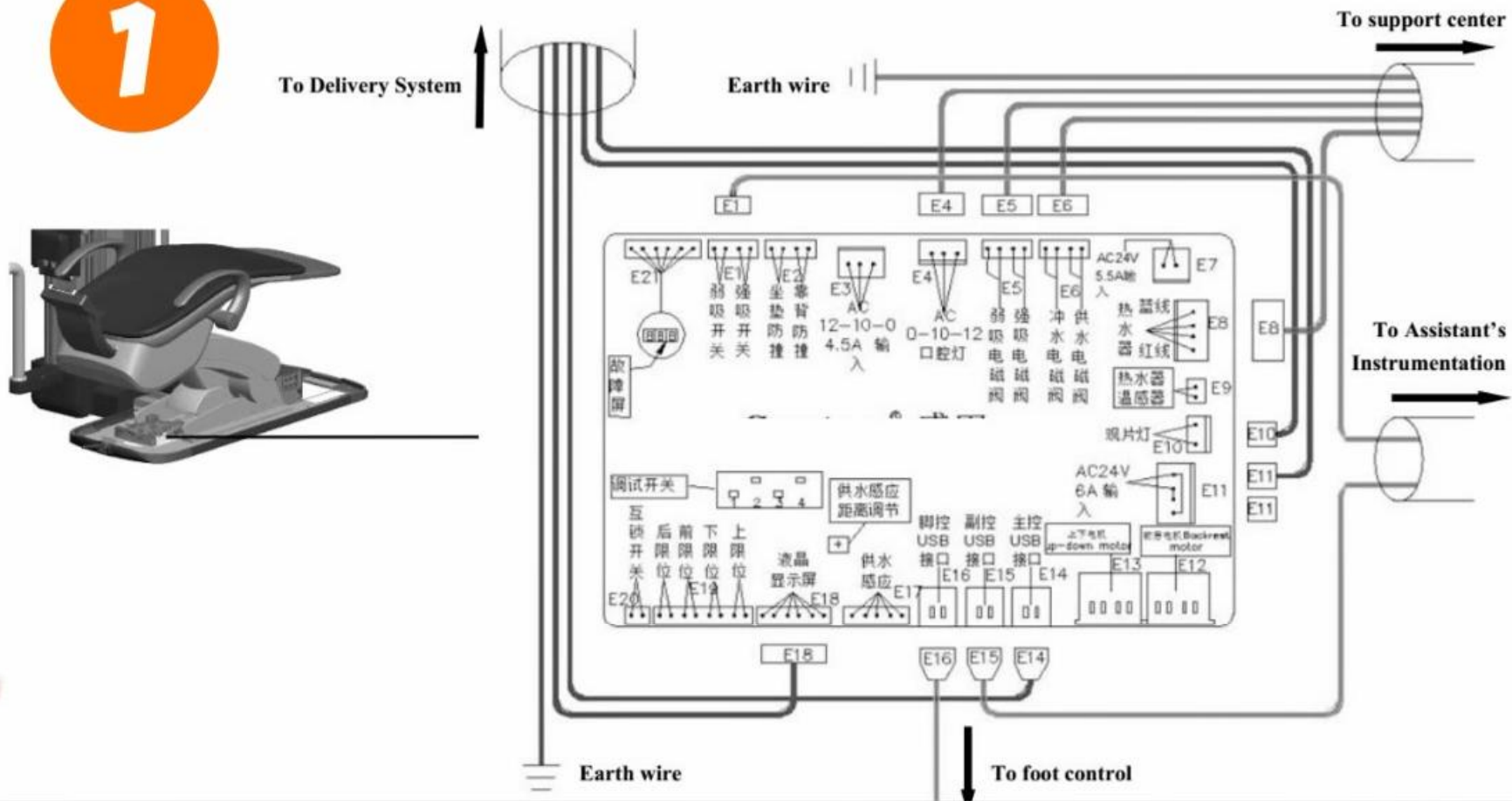
Aim the display at the installing hole, then Use 4xM4 screw to fix the display



# Dental Chair Installation Procedures

- Connect Power and Air Pipeline

1

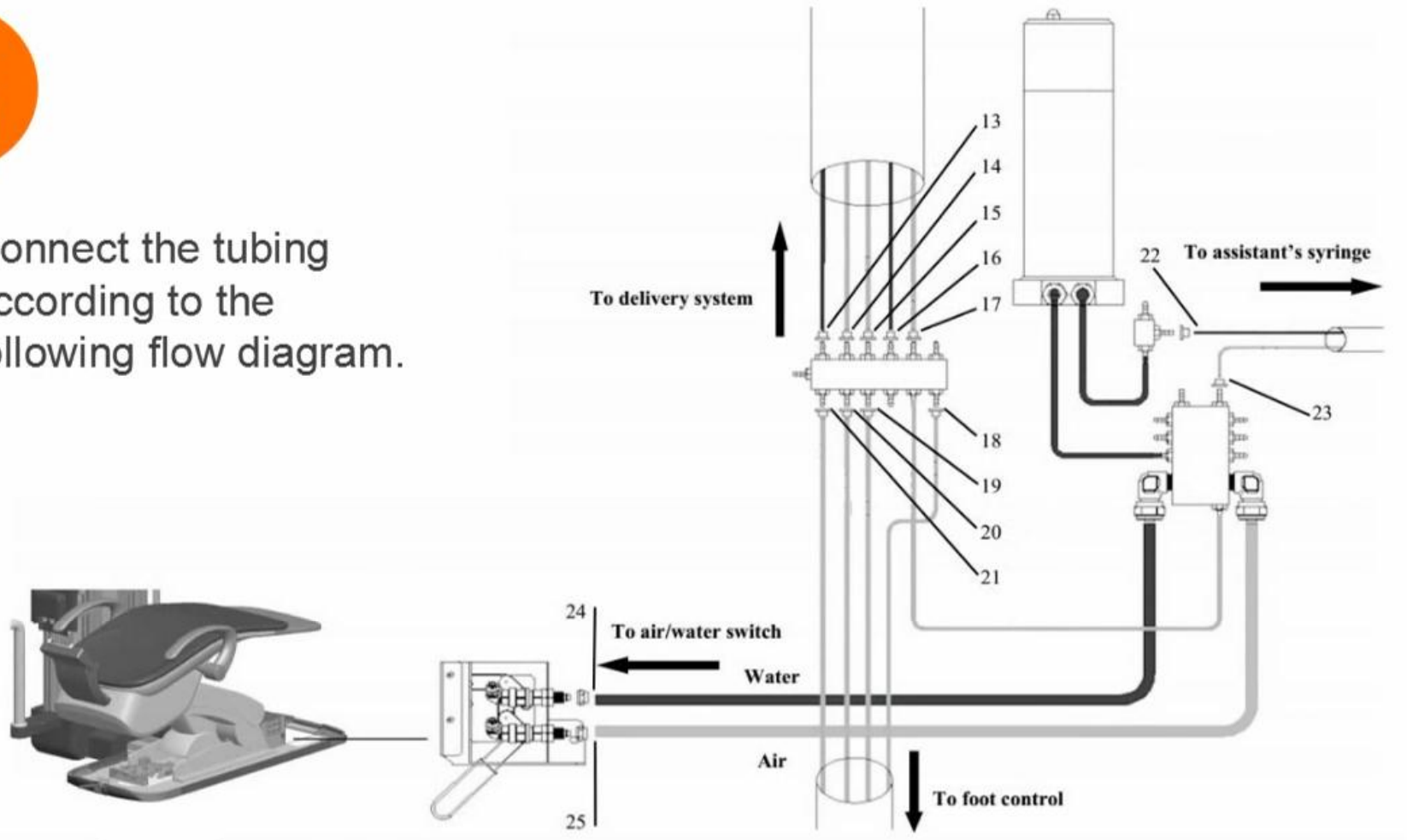


Connect Lines and Data Lines as the picture.



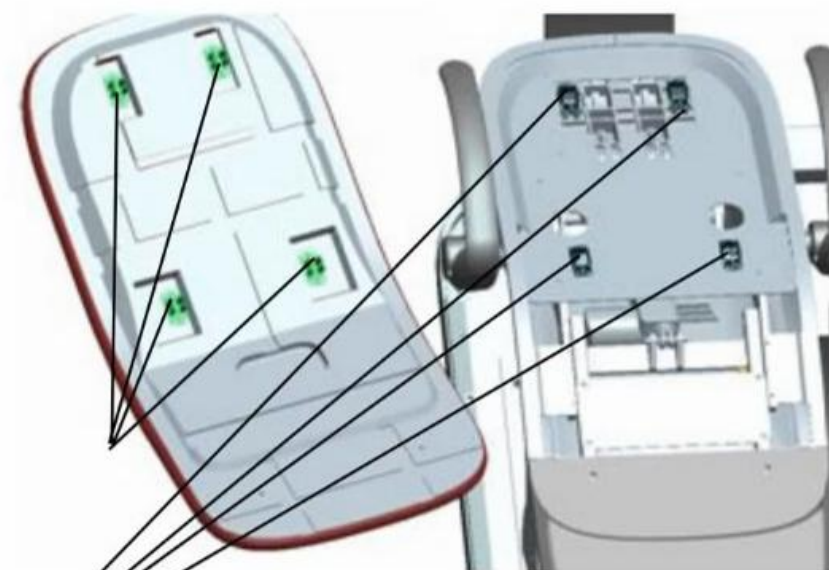
2

Connect the tubing according to the following flow diagram.



# Dental Chair Installation Procedures

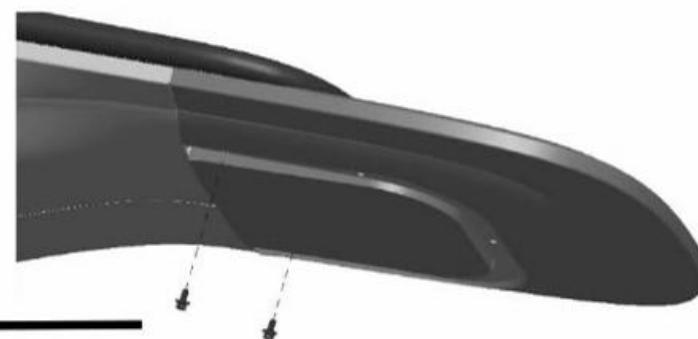
--Installation of Upholstery



Insert 4 fastener on the  
cusion into the holes on  
the seat.



M5-12 six angle screw



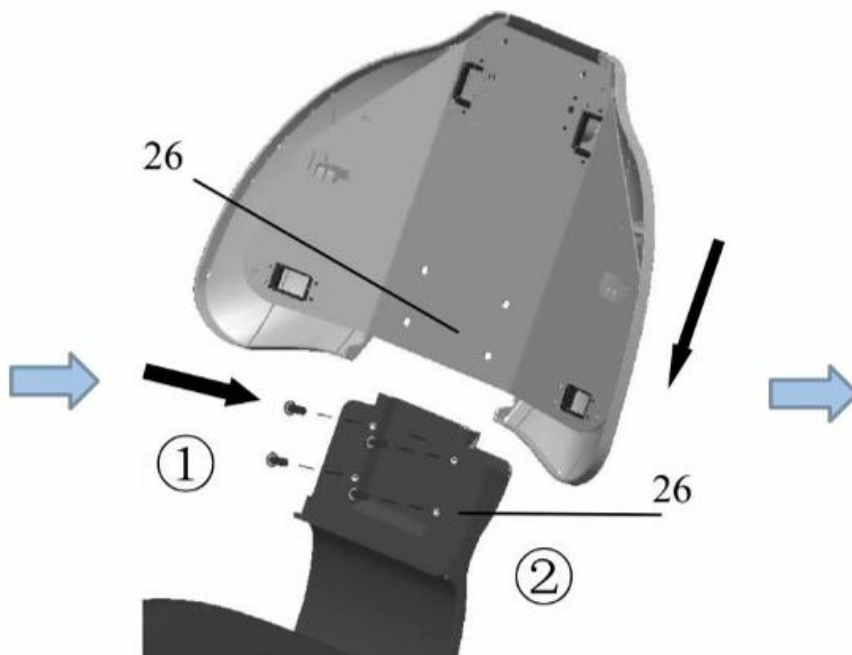
use the screw to fix  
the cusion.



Install the Cushion



Open the chair  
backrest



Aim the 4 holes on the fixing board at  
the screw holes on the blend board,  
then Use screws to fix the fixing board



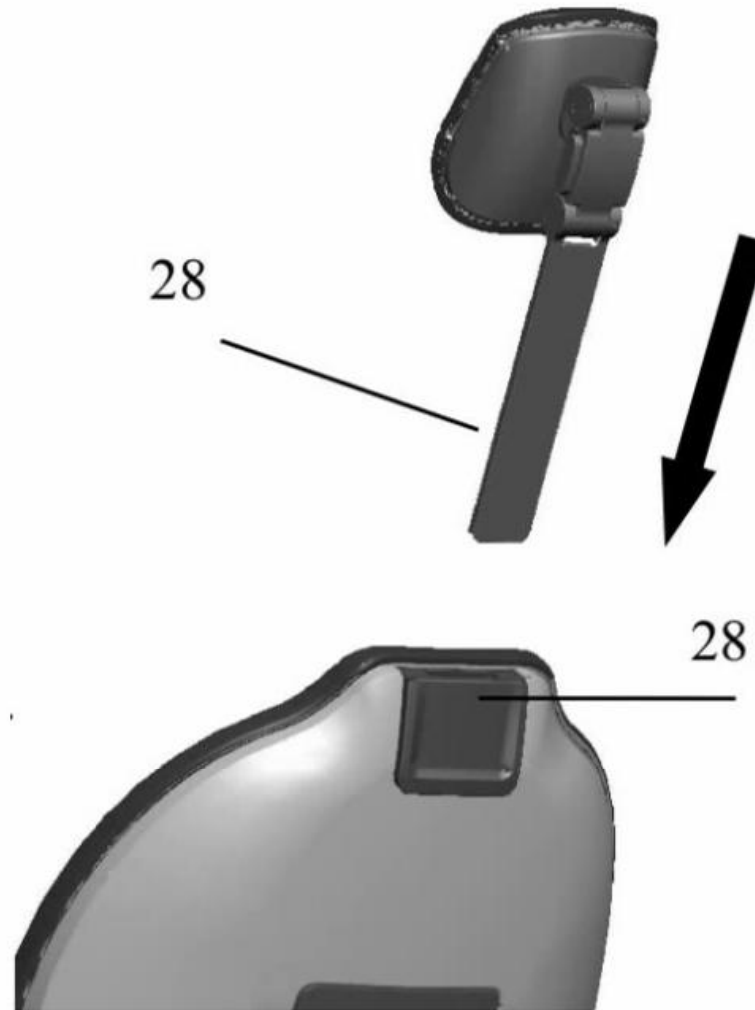
Aim the backrest fastener at  
card slot of the fixing board.  
Press the backrest and fix it.

2

Install the Chair Backrest

3

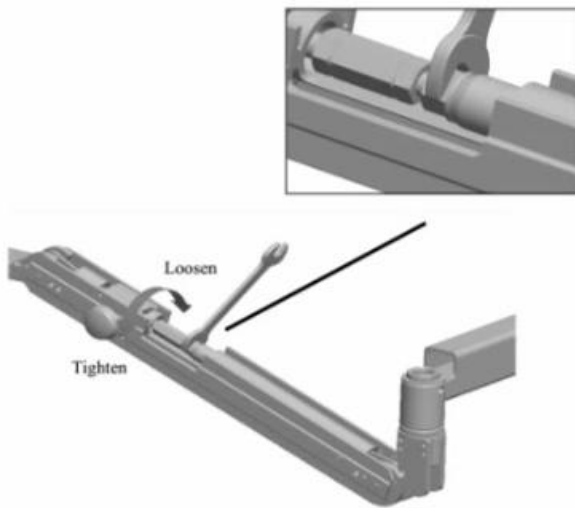
### Install the Headrest



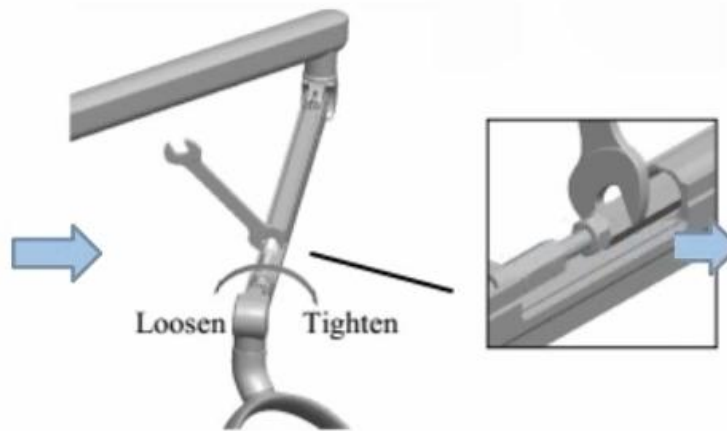
Stepped forwards the headrest, insert the headrest frame into the hole on the backrest and press it down.

Note: Installation of doctor chair and nurse chair can be seen in the packing.

# Prepare and Adjust



Adjust the Balance Arm Tension



Adjust the Balance Arm of  
Light Arm Tension (If Needed)



Adjust the Water Flow  
of Spittoon (If Needed)

After you have completed the installation of dental chair, use the following checklist to test the system, then follow up with the customer.

- ☐ Dental Patient Chair
- ☐ Delivery System
- ☐ Operating Light
- ☐ Assistant's Instrumentation, Spittoon and Cupfill
- ☐ Water, Air and Power Pipeline

For the Dental Patient Chair, please check the following projects:

- ① The dental chair is securely anchored to the floor.
- ② The chair functions properly, including the chair's lift and programmable functions controlled by the touch pads and/or foot switch.
- ③ Headrest is functioning properly.



**For the Delivery System, please check the following projects:**

- ① The handpieces function properly: such as i .Water coolant, air coolant, and spray. ii .Handpiece holder valves and switches.
- ② Foot control operates properly.

**For the Operating Light, please check the following projects:**

- ① All light intensity settings work properly.
- ② Operating light balance arm tension are properly adjusted.

**For the Assistant's Instrumentation, Spittoon and Cupfill, please check the following projects:**

- ①Saliva ejector operates smoothly.
- ②High power suction operates smoothly.
- ③Air and water syringe buttons operate smoothly.
- ④High power suction valve/saliva ejector valve operate smoothly.
- ⑤Cupfill timing is set properly.
- ⑥Spittoon flow pattern effectively rinses the bowl, and the bowl drains properly.

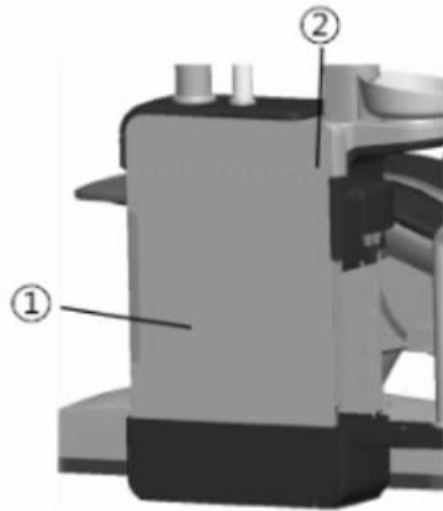
For the Water, Air and Power Pipeline, please check the following projects:

- ① Regulated air pressure is at 550Kpa.
- ② Floor box is free of air and water leaks.
- ③ The drain is functioning properly.
- ④ Tubing and connections are not kinked and are free of air and water leaks.
- ⑤ Excess tubing and wires are coiled and stored away from moving parts.

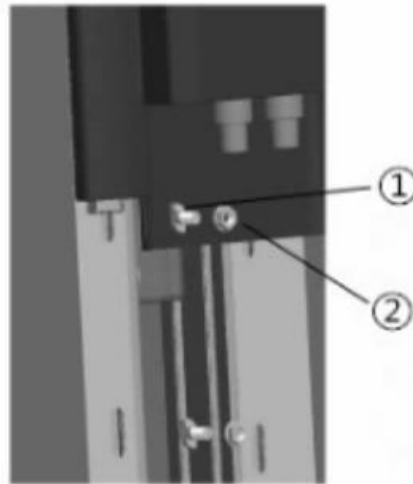
# Installation of Covers

1. Install the Support Center Cover
2. Install the Front/Behind Board
3. Install the Delivery System Arm Cover.

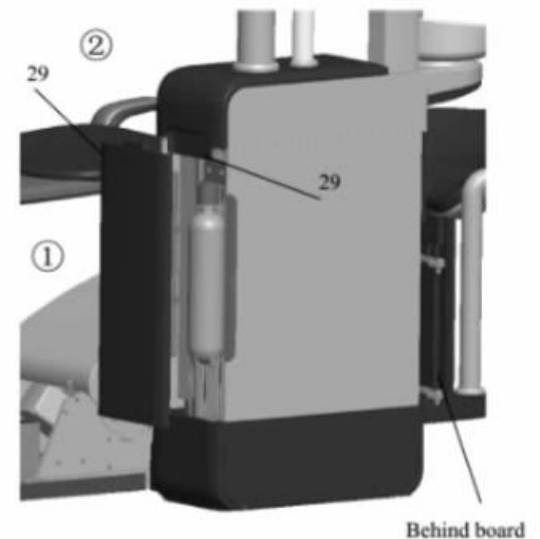
## 1.Install the Support Center Cover



Put the right board on the outer side of cabinet, then Align the board and place it.



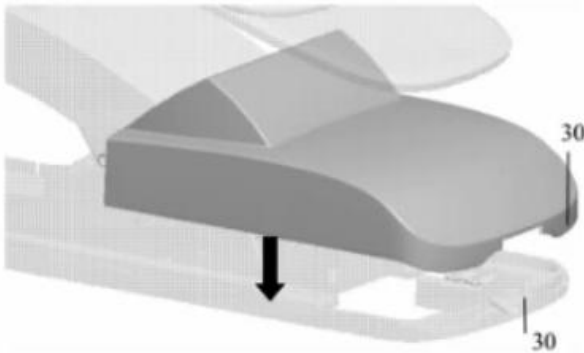
Put the screw into pillar groove and then 90 degrees clockwise, then Screw on the nut, tightened with a spanner.



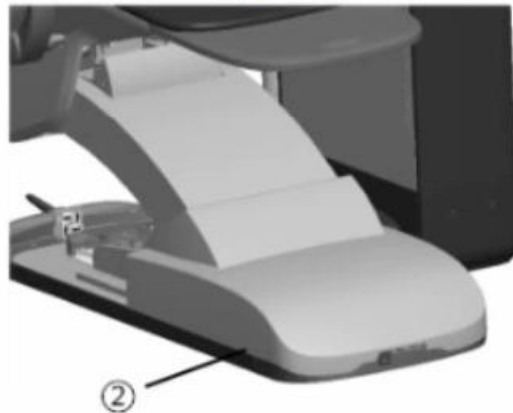
Aim the bump on the board at the location hole. Then Lightly press the shutter button on the board, push the board and stuck the cover.

## 2.Install the Front/Behind Board

①Insert the front board into the edge slot of the floor and completely into the slot after adjustment.



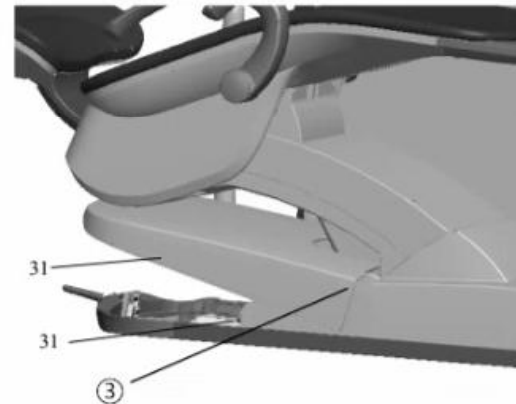
②Adjust the cover position to make the gap between the cover and the slot looks uniformity.



④Then put down the end of behind board, insert it into the edge slot of the floor and adjust the gap of edge slot.

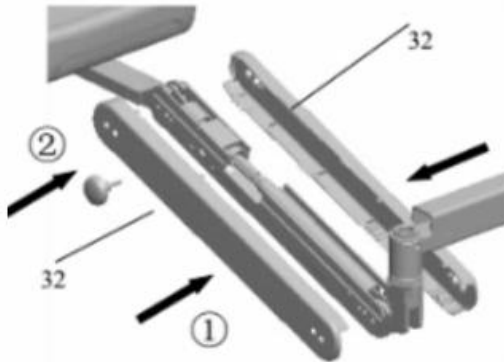


③Put up the end of behind board and insert the shutter button into the slot of the front board.

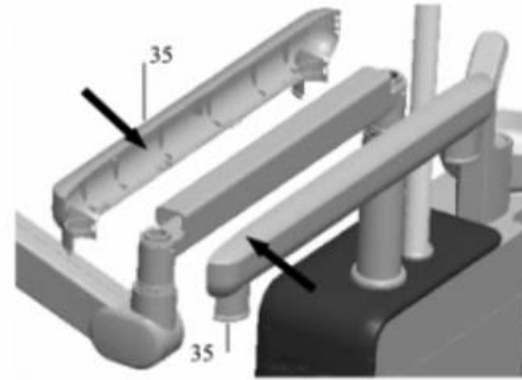
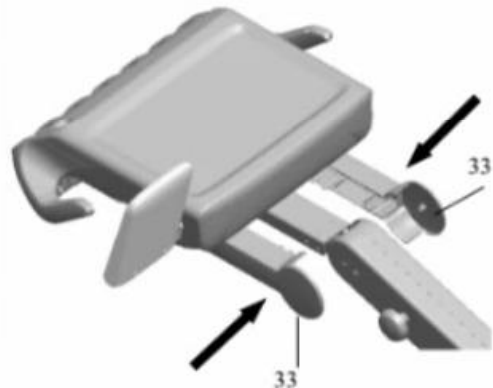


### 3.Install the Delivery System Arm Cover

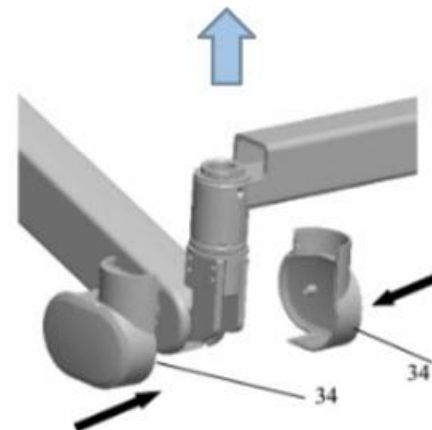
Four holes cover inside, five holes outside, buckle the 8 shutter buttons. Screw on locking screws, backspin 2 rounds after tightening.



Close left and tight cover.



Two tumbler arm shell shape is the same, buckle 14 shutter buttons.



Close left and right cover, buckle 3 shutter buttons.