PLANMECA

Planmeca Compact™ i3

EN

installation manual

30020733

The manufacturer, assembler and importer are responsible for the safety, reliability and performance of the unit only if:

- installation, calibration, modification and repairs are carried out by qualified authorised personnel
- electrical installations are carried out according to the appropriate requirements such as IEC 60364
- equipment is used according to the operating instructions.

Planmeca pursues a policy of continual product development. Although every effort is made to produce up-to-date product documentation this publication should not be regarded as an infallible guide to current specifications. We reserve the right to make changes without prior notice.

Publication number 30020733 Revision 5

Released 10 September 2020

Table of contents

1 Introduction

This manual contains all the information required to install and set up the Planmeca Compact i dental unit. Please read this manual carefully before installing the unit.

NOTE

The information given in this manual should be taken as a general guide for proper installation of the Planmeca Compact i dental unit. However, in the cases that this information is contradictory to any local or national building regulations, the building regulations must always override this manual. In these cases of contradictory contact your local Planmeca dealer before proceeding with any changes.

1.1 Contents of packing

The contents of the delivery package are as follows:

- Junction box
- Delivery arm and suction arm
- Patient chair with the upholsteries
- Tray table, suction tubes, instruments, mounting accessories, suction cleaning accessories, foot control, adapter cover for the lifting adapter and Planmeca Compact i dental unit documentation

1.2 Associated documentation

This Planmeca dental unit is delivered with the following manuals and diagrams:

- User's manual

  For dental care professionals. Describes the dental unit and its different parts as well as instructs how to operate and clean the dental unit.
- Installation manual

  For service personnel. Describes how to install the dental unit.

  NOTE

  Use the installation template (included in delivery) to position the unit correctly.
- Technical manual

  For service personnel. Gives instructions for service situations.
- Wiring diagrams (30019022)
- Pneumatic diagrams (30020918)

Planmeca Romexis software is delivered with the following manuals:

- Planmeca Romexis user's manual

  For dental care professionals. Describes how to monitor and control the activities as well as gather data related to dental treatments.
- Planmeca Romexis quick installation guide

  For service personnel. Describes how to install Planmeca Romexis software.
- Planmeca Romexis technical manual

For service personnel. Gives instructions for service situations.

The Planmeca Solanna or Planmeca Solanna Vision operating light is delivered with the following manual:

- User's manual

  For dental care professionals. Describes the operating light and instructs how to operate and clean it.

- Installation and technical manual

  For service personnel. Describes how to install the operating light to the ceiling or wall, and gives instructions for service situations.

  The operating light's installation to the dental unit is described in the dental unit's installation manual.

The Planmeca intraoral scanner is delivered with the following manual:

- Planmeca FIT user’s manual

  For dental care professionals who take digital impressions for dental restorations.

- Planmeca FIT installation manual

  For service personnel. Describes how to install the intraoral scanner.

Before using surface disinfectants, upholstery disinfectants, dental unit water and waterline disinfectants, or suction disinfectants, read the disinfectant’s material safety data sheet and the document *Planmeca approved disinfectants* (30007097). The document can be found in the Planmeca Material bank.

Before using an instrument, read the instrument’s user’s manual.

For a full list of accessories, refer to the Planmeca product price list.

1.3 Original manufacturer

Planmeca Oy, Asentajankatu 6, FIN-00880, Helsinki, Finland

Phone: +358 20 7795 500, Fax: +358 20 7795 555,
http://www.planmeca.com

2 Pre-installation requirements

CAUTION

Do not connect items which are not specified as part of the system.

CAUTION

Do not connect a Multiple Portable Socket-Outlet or extension cord to the system.

2.1 Floor strength

NOTE

The dealer must check the floor material and strength of the installation site before the installation.

The floor must be straight within 1%. Antistatic floor materials should be preferred.

The concrete floor must be 50mm (2in.) thick. The concrete strength must be type C20/25-C50/60 **(According to standard EN 206-1:2000)**, non-cracked concrete.

With concrete floor, the unit can be installed without installation plate.

The required attachment hardware depends on the floor material. The attachment hardware, as well as floor material must endure a pullout force of 5900 N.

The person installing the unit is responsible for using the appropriate attachment hardware and ensuring the sufficient pullout strength of the floor. Consult a local structural engineer if necessary,and always follow local construction regulations.

2.2 Environmental requirements

2.2.1 Transportation conditions

Accepted limits for unit transportation are the following:

- **Temperatures:** -20 °C to +60 °C (-4 °F to 140 °F)
- **Relative humidity:** 5% RH to 95% RH “Absence of condensation”
- **Air pressure:** 700 hPa to 1060 hPa (10 psi to 15 psi)

2.2.2 Storage conditions

Accepted limits for unit storage are the following:

- **Temperatures:** -5 °C to +60 °C (23 °F to 140 °F)
- **Relative humidity:** 5% RH to 95% RH “Absence of condensation”
- **Air pressure:** 700 hPa to 1060 hPa (10 psi to 15 psi)

NOTE

If the unit has been stored at temperatures below +10 °C (50 °F) for more than few hours, time must be allowed for the unit to reach the room temperature in its own package, before connecting the dental unit to mains voltage.

2.2.3 Unit operating conditions

Accepted limits for unit operating are the following:

- **Temperatures:** +15 °C to +35 °C (59 °F to 95 °F)
- **Relative humidity:** 5% RH to 95% RH “Absence of condensation”
- **Air pressure:** 800 hPa to 1060 hPa (12 psi to 15 psi)
- **Altitude:** < 2000 m (less than 1.25 miles)

2.3 Plumbing requirements

2.3.1 Air supply

NOTE

Take into account national and international regulations concerning the quality of dental air.

The air pressure used must be between 550 - 900 kPa (5.5 – 9 bar) (80 - 130 psi) with a flow of at least 55 l/min. The dew point must be no greater than −20 °C at atmospheric pressure.

A compressor with an air dryer must be used to ensure that the air is clean, dry and oil free. The air may contain a maximum of 100 particles per cubic meter when the particle size is 1 - 5 µm, and oil contamination must be max. 0.5 mg/m^3.

2.3.2 Water supply

The requirements for inlet water are as follows:

- Water pressure: 300 - 900 kPa (3 - 9 bar) (44 - 130 psi)

  Note the differing water pressure requirements for Planmeca WEK and Planmeca ActiveAqua below.
- Water flow: At least 4 l/min
- pH value: 6.5 – 8.5.
- Hardness: ≤ 8°dH

  If the water has a hardness greater than 8 °dH, a water conditioner must be fitted to the water inlet pipe. Hard water can very quickly ruin a dental unit.

  Note the differing water hardness requirement for Planmeca ActiveAqua below.
- The water must be drinking quality and free of all particles larger than 5 µm that could block the small tubes in the dental unit. If the water supply contains particles larger than 5 µm an accessible filter (5 micron) must be fitted to the water inlet pipe.

NOTE

Water is also used for suction line rinsing and suction line cleaning. Suction rinsing is set as default to 300 ml per minute.

NOTE

The water supply line must be equipped with a backflow prevention valve according to local requirements. E.g. in most European countries according to EN1717 standard, BA Type backflow preventer.

Dental units with WEK water disinfection system

In dental units with Planmeca WEK water disinfection system, the pressure range must be 300 - 600 kPa (3 - 6 bar) (44 - 87 psi).

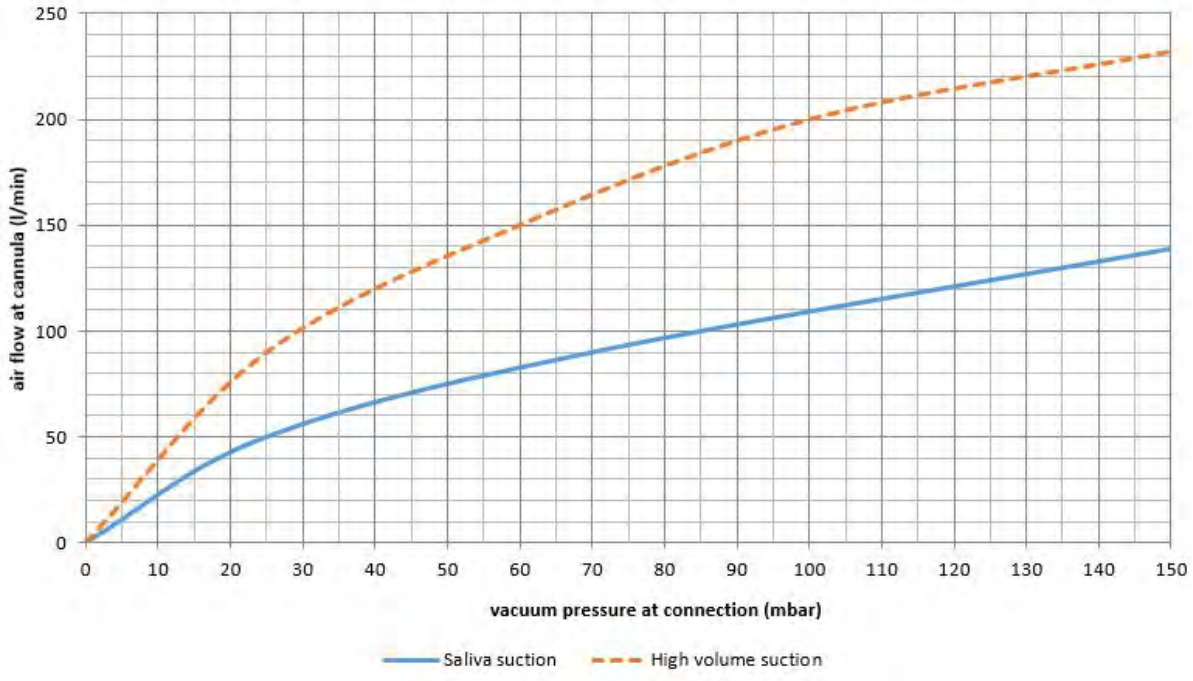
2.3.3 Suction

The static vacuum must be at least 150 mbar. The vacuum pump must be able to produce a flow of at least 550 l/min. when measured at the installation position.

The suction line must be fitted with a suction calibrating valve, which limits the maximum vacuum to 140 mbar.

NOTE

The below diagram presents air flow at cannula as a function of vacuum pressure at the dental unit suction source connection point for available suction systems.



Avoid using sharp bends or joints in the suction line. Seal all joints to avoid air leakage. Care should be taken to avoid condensation, particularly when the pipe is exposed to different ambient temperatures. Moisture traps must be used if necessary.

2.4 Electrical requirements

2.4.1 Mains voltage

The unit has been preset at the factory to one of the 3 different mains voltage settings. Please check that the rating indicated on the type shield corresponds to the local mains voltage.

CAUTION

Never connect the unit to the mains without first checking the voltage setting. Incorrect voltage setting can cause damage to the unit electronics.

The possible voltage settings are:

- 100V~
- 115V~
- 220-240V~

The mains voltage setting for the complete unit can be altered by re-wiring the voltage jumper on the Main control PCB (connector P21). For re-wiring the voltage jumper, refer to the Technical Manual.

NOTE

Please note that the ratings of the internal (as well as external) mains fuses are depending on the selected voltage settings.

2.4.2 Mains frequency

The mains frequency is 50 or 60 Hz and is independent on the mains voltage setting.

2.4.3 Internal mains fuse ratings

The unit is equipped with dual mains fuses (live and neutral). However, in some areas it is not allowed to have a fuse in the neutral wire. The neutral fuse is bypassed by default with the same voltage setting jumper (connector P21). For details how to bypass the neutral fuse, see .

The ratings for the internal mains fuses are:

- F1, F2= Schurter 0001.1014 10A/250V/FAST ACTING/HIGH BR CAP. (100V, 115V)
- F1, F2= Bussmann S501-10-R 10A 250V FAST ACTING/HIGH BR CAP. (100V, 115V)
- F1, F2= Schurter 0001.1012 6.3A/250V/FAST ACTING/HIGH BR CAP. (220V – 240V)
- F1, F2= Bussmann S501-6.3-R 6,3A 250V FAST ACTING/HIGH BR CAP. (220V- 240V)

In the case that the neutral fuse is bypassed with the voltage jumper, the neutral fuse can be left open.

2.4.4 External mains fuse recommendation

The recommendation for the external fuses are:

- Units with 100V~ or 115V~ voltage setting: 16A, time lag
- Units with 220-240V~ voltage setting: 10A, time lag

No other equipment should be connected to the same fused mains line as the unit. In some countries an additional external fault current guard is also required. Some electronic circuit breakers are very fast and can unintentionally trip during the unit turn-on. This is fully normal and is due to the unit’s mains transformer inrush current. Selecting a circuit breaker with a higher current rating solves this nuisance.

Canada only:

- External fuse: Max. 20A branch circuit fuse

2.4.5 External mains switch

Mains voltage supply for the dental unit shall be equipped with a separate fixed assembled mains switch according to standard IEC 61058-1:2000 + A1:2001 + A2:2007 complying with isolation distances for 4 kV requirements.

The external mains switch shall disconnect the mains power supply from both the mains and the neutral lines. The switch must be capable of being locked in the **off** position.

2.4.6 Grounding

The dental unit must always be connected to a grounded outlet to fulfil the safety directives stated.

2.4.7 Power supply cable

The quality and cross-section area of the mains power cable must fulfil the requirements of the local standards (must be e.g. IEC-approved (CE marked), UL / CSA approved).

2.4.8 Power consumption

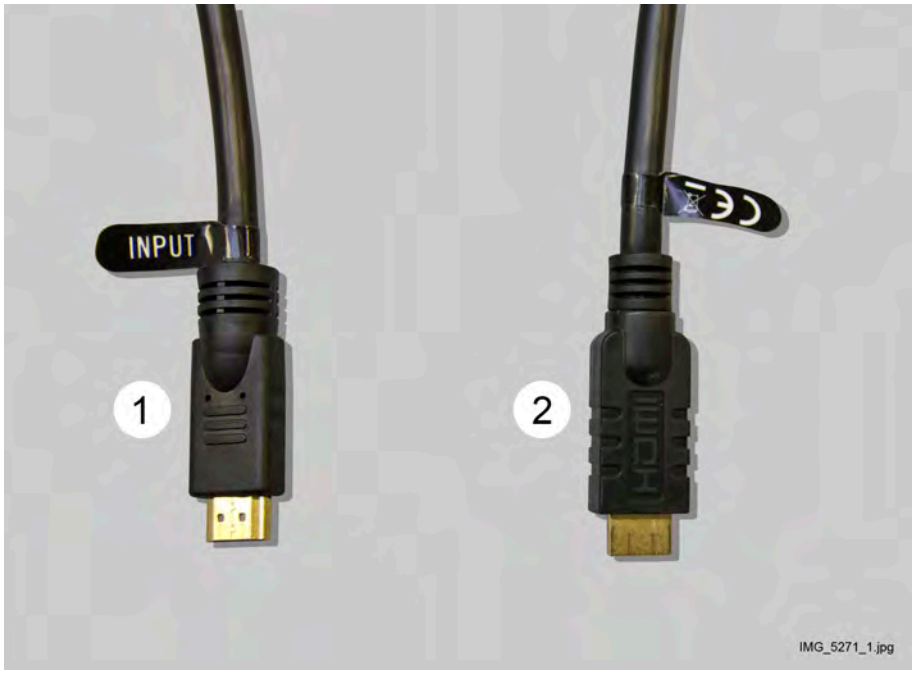
The idle (instruments in holders, chair not moving) power consumption is less than 300VA. Maximum power consumption is 1450VA, and occurs when the chair backrest and lifting mechanisms are moving simultaneously.

2.4.9 Cabling for options

Some optional features (monitor, Planmeca ProX etc.) require cables between the dental unit and PC or other equipment. Make sure that the needed cables are routed through the service pipe inside the floor.

Monitor HDMI cable

Note the direction of the HDMI cable supplied with the dental unit (part number 10030561). The end marked with text “INPUT” (**1**) must be connected to the PC. The other end of the cable (**2**) is connected to the HDMI cable located inside the junction box.



NOTE

The HDMI cable supplied with the dental unit is an active HDMI cable. Do NOT connect another active cable to this cable.

Ethernet cable

The Ethernet cable is needed for dental unit / Planmeca Romexis server connection.

USB cable

The USB cable is needed for USB intraoral camera connection. The repeater cable is routed from the dental unit to the PC. If the distance is over 5 m, another repeater cable must be added.

Other cables

2.4.10 Network connection

An Ethernet network is used to connect to the Romexis Clinic Management for equipment diagnostics and remote user assistance.

For more information on network connection requirements, see section "Network architecture requirements" on page 8.

2.5 Network architecture requirements

The dental unit requires a network connection for the purposes of connecting with Planmeca Romexis.

The user organisation must take care of protecting the network by using an up-to-date virus and malware protection software and a firewall. The network must be private and access to the network must be strictly restricted. The network must not be connected to the Internet.

The recommended connection speed is 100 Mb/s.

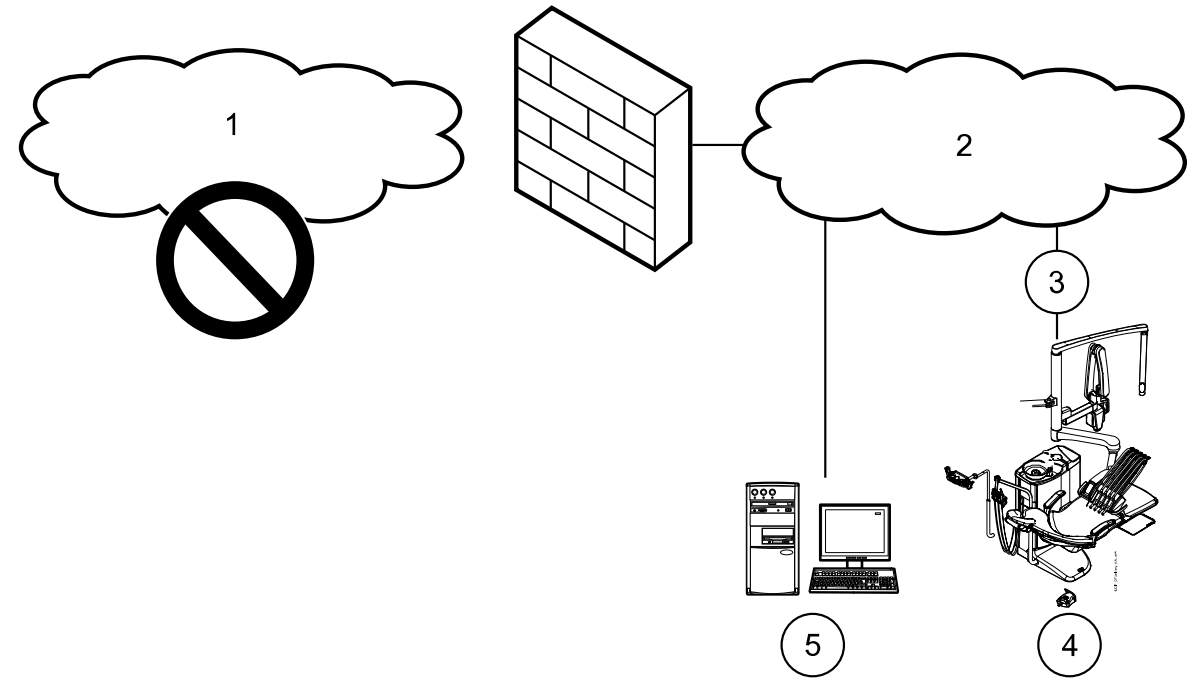
For instructions on how to enable remote connection (PMUAPI) and configure the unit's IP address, see technical manual section *Network settings*.

CAUTION

Never connect the unit to the Internet. Connecting the unit to Internet will result in previously unidentified risks to patients, operators or third parties. Connect the unit to private network only.

CAUTION

Never turn on unit power while having your fingers in patient chair mechanics. Remote user at Romexis Clinic Management may start chair automatic movements via Ethernet connection.



1 Internet
2 Secure network
3 CAT5 Ethernet
4 Planmeca dental unit
5 Planmeca Romexis Clinic Management module

Required configuration

The following network settings must be set during installation:

- IP address
- Subnet mask
- Gateway
- Romexis server IP address
- Romexis communication port

The hospital network firewall must be configured to allow connection between the dental unit and Planmeca Romexis.

Technical specifications of network connection

- Fast Ethernet (IEEE 802.310/100BASE-T)
- Minimum requirements: CAT5 cable with RJ45 connector

Intended information flow

The dental unit uses legacy PMU API protocol to communicate with Planmeca Romexis software.

Hazardous situations resulting from network failure

None.

Changes to the network

Changes to the network could introduce risks requiring additional analysis. Connection to networks including other equipment could result in previously unidentified risks to patients, operators or third parties. The user organisation is responsible for identifying, analysing, evaluating and controlling these risks.

Changes to the IT-NETWORK include:

- Changes in network configuration
- Connection of additional items
- Disconnection of items
- Update of equipment
- Upgrade of equipment

2.6 Patient area

The patient area is 1.5 m (59.1”) in each direction from the dental unit.

CAUTION

Use only Planmeca specified devices inside the patient area.

CAUTION

The floor of the patient area must be dry.

NOTE

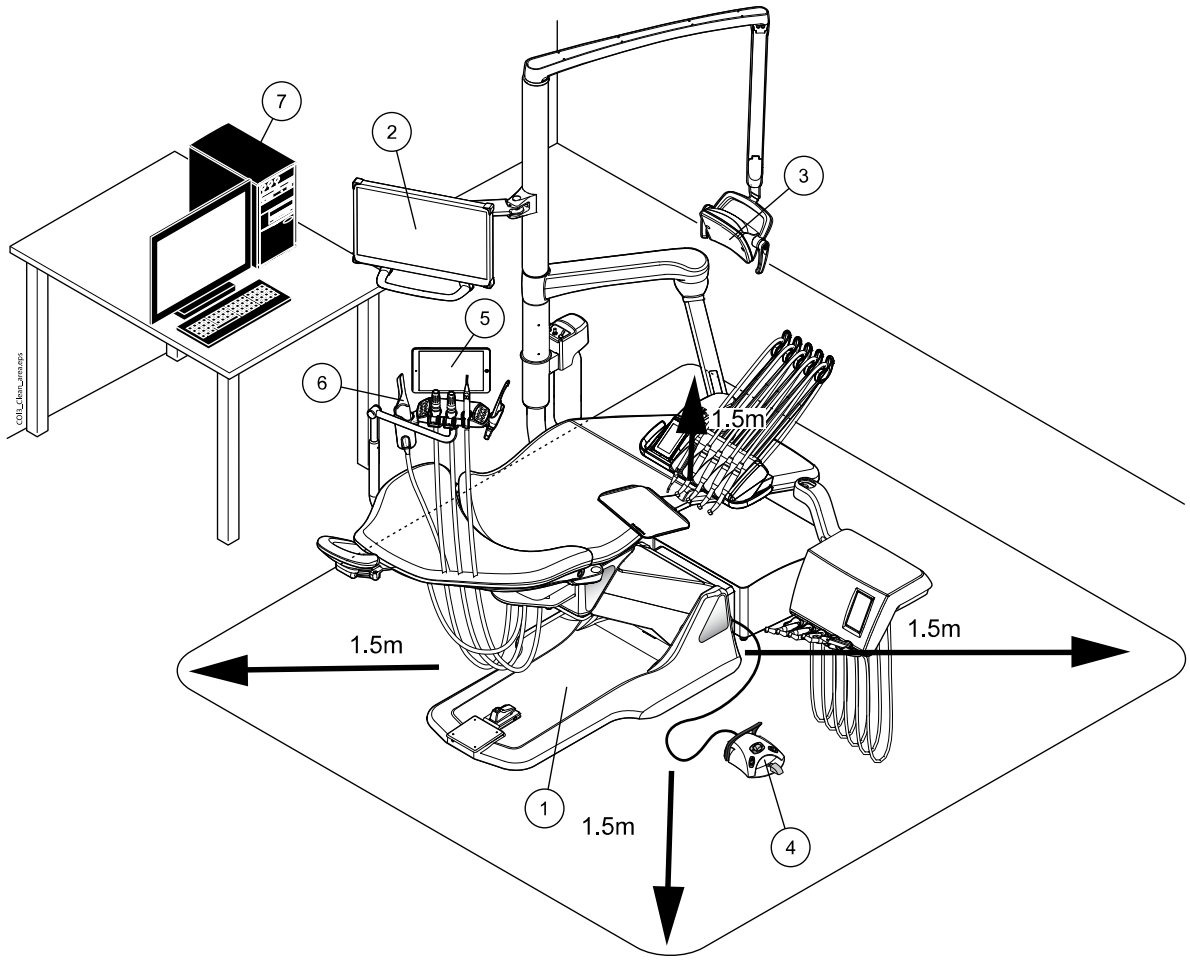
Connect only Planmeca specified devices to the dental unit.

NOTE

The external PC must be protectively earthed and IEC 60950 -approved (CE marked).

NOTE

The monitor must fulfil IEC 60601-1 ed.3 requirements.



Inside patient area:	Outside patient area:
1. Dental unit	7. External PC
2. Planmeca monitor	
3. Planmeca operating light	
4. Foot control. Use only IEC 60601-1 approved power source supplied by Planmeca	
5. Tablet	
6. Planmeca intraoral scanner	

2.7 Fire stopping of installation site

NOTE

The pipe and cable penetrations must be sealed with fire stopping materials. The products given in this section are only examples.

The fire stopping must be performed in accordance with the national regulations.

NOTE

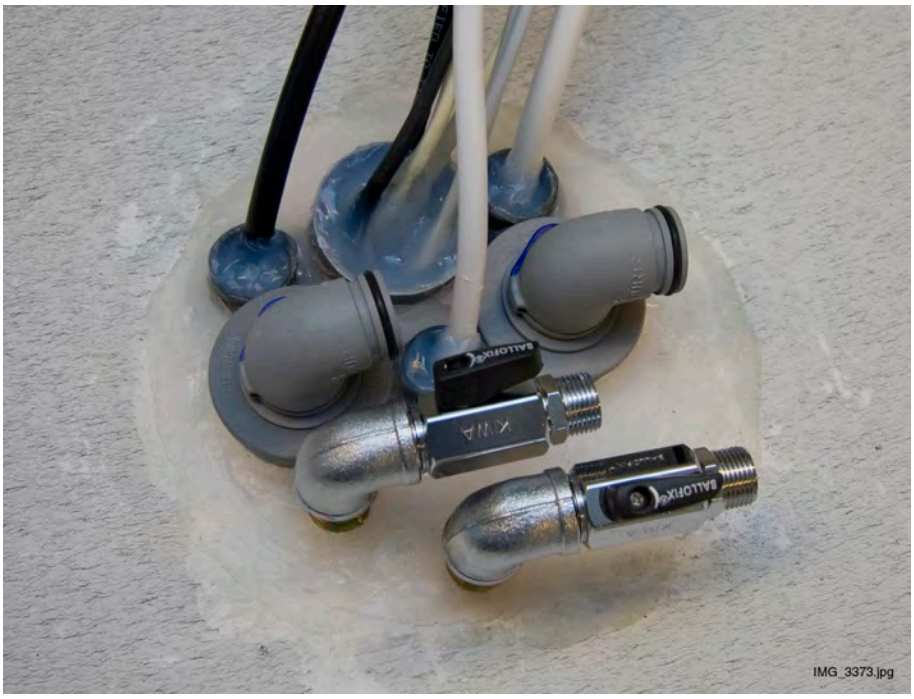
Follow the fire stopping products' installation instructions.

Add fire stopping laminate or mastic (e.g. Intumex LF, Intumex MG) to the pipes as shown in the figure below.

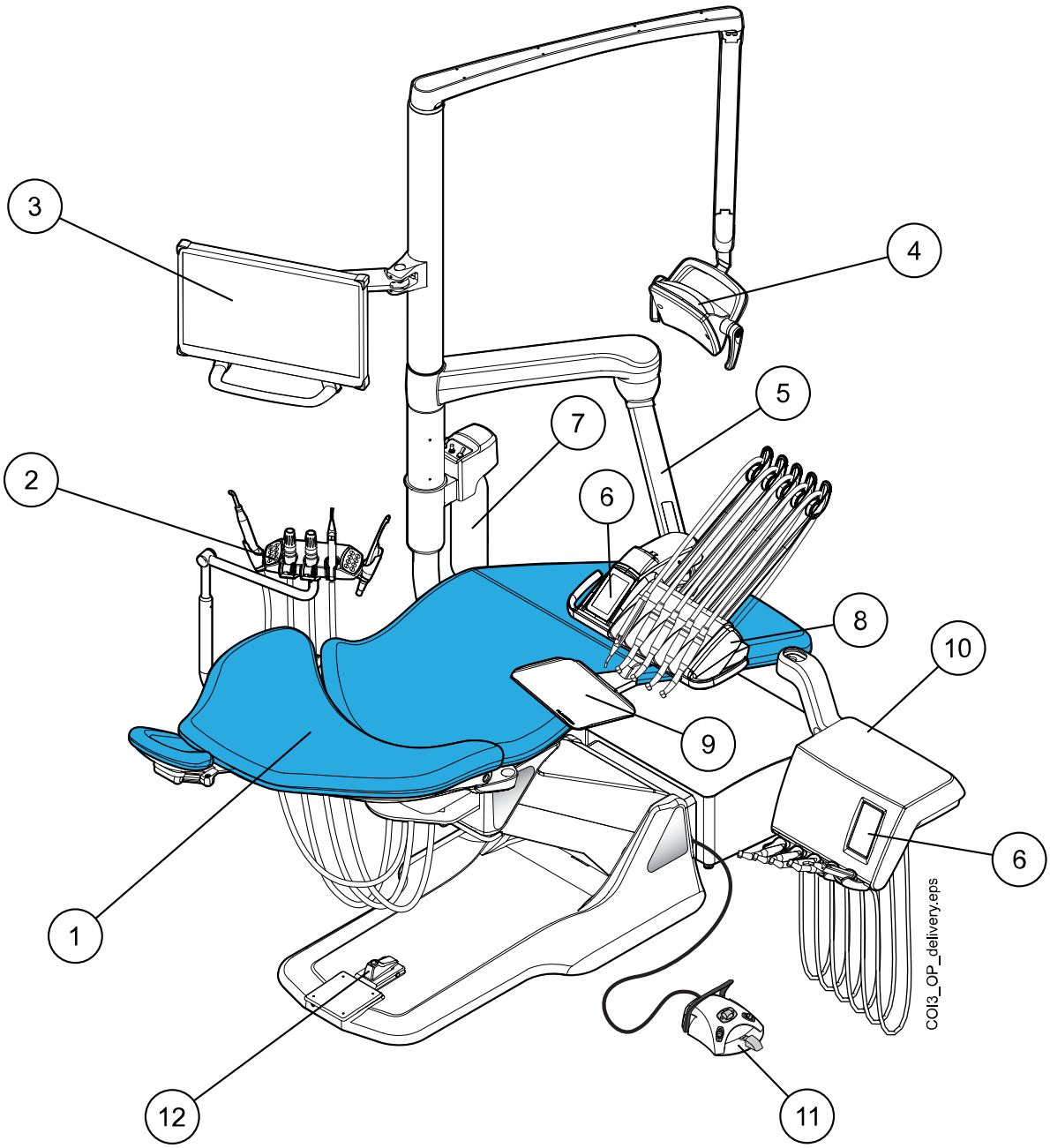
Fill the floor opening with fire stop sealing compound (e.g. FIREPRO M799 GPG Fire Stop sealing compound).

Add waterproof material (e.g. Loctite 5366) above the compound and into the cable pipe.

The figure below is an example (installation to a ready-made concrete floor).



3 Unit configuration



1. Patient chair	5. OP delivery arm	9. Tray
2. Suction arm with Flexy-holder	6. Control panel	10. Instrument console with hanging-tube instruments
3. Monitor	7. Clean-water bottle	11. Foot control
4. Operating light	8. Instrument console with balanced instrument arms	12. Foot switch for chair swivel

4 Attaching chair to floor

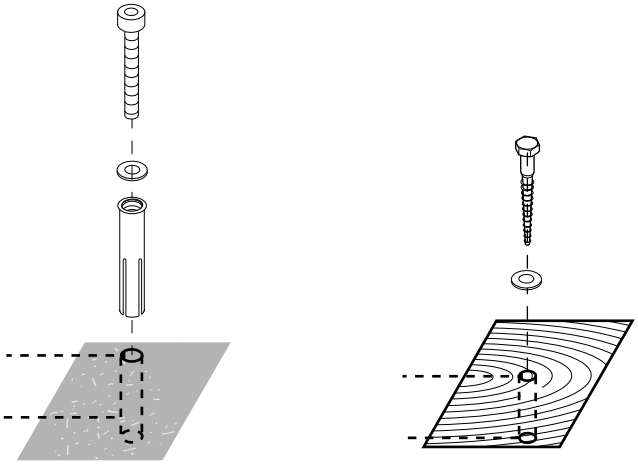
About this task

CAUTION

The chair must be bolted to the floor before attaching the upholsteries, and before installing any equipment to the chair. The chair must be bolted to the floor even if the location is temporary (e.g. in trade shows).

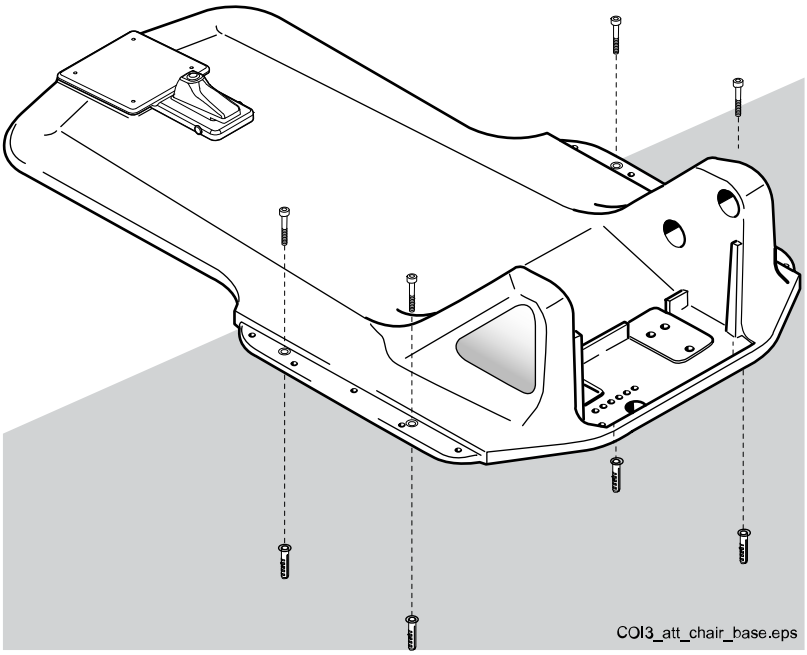
Steps

1. Use the installation pattern as a template to position the junction box over the cables, the water/air inlets and the suction/drain tubes that come from the floor. Position the pattern over the cables and tubes and mark the locations where the holes for the chair and junction box attaching screws will be drilled.
2. There are four fastening screw holes on the chair base. You can also use the chair base as a template and mark the positions of the fastening screw holes to the floor.
3. If the floor is made of concrete, use the M10x30 DIN 912 screws and expansion anchors. For chair attachment drill four ø12mm (0,47 in.) holes, 40 mm (1,57 in.) in depth. For junction box attchment drill two ø8mm (0,3 in.) holes, 30 mm (1,2 in.) in depth. Place the expansion anchors into them. Make sure that the end of the anchor is under the floor surface, but not more than 2 mm (0.08 in).
4. If the floor is made of wood, use the ø8x60 DIN 571 lag screws for the chair attachment. Drill four ø5mm (0.2 in.) holes, 50...55 mm (2.0...2.2 in.) in depth. Do not use expansion anchors with wooden floors. See figure below.

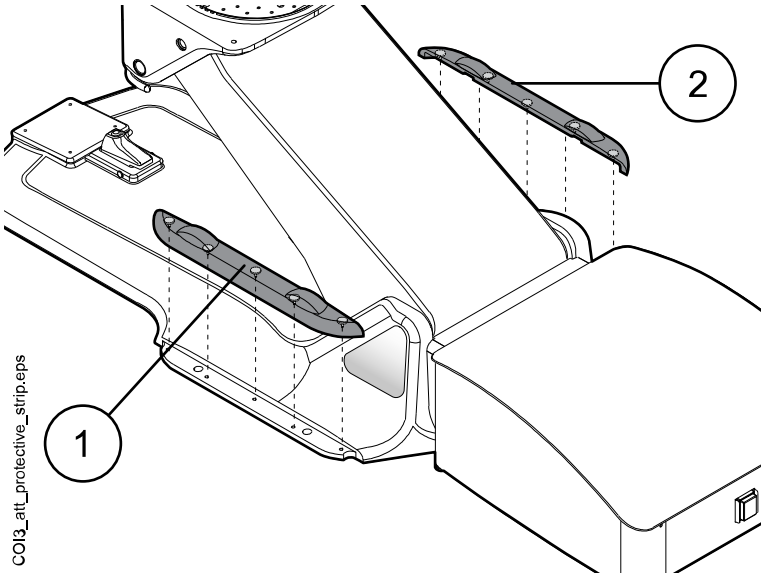


COI3_Att_chair_2_base.eps

5. Attach the chair to the floor with four attachment screws. The junction box is attached to the floor later.



6. Attach the protective strips to the chair base.

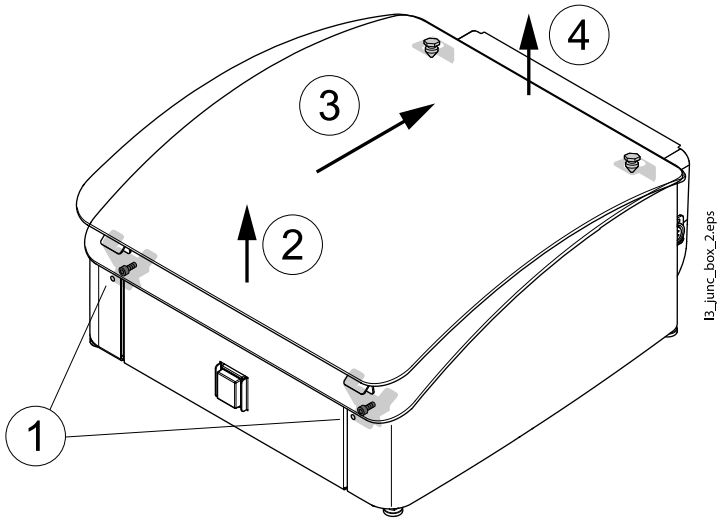


5 Installing junction box

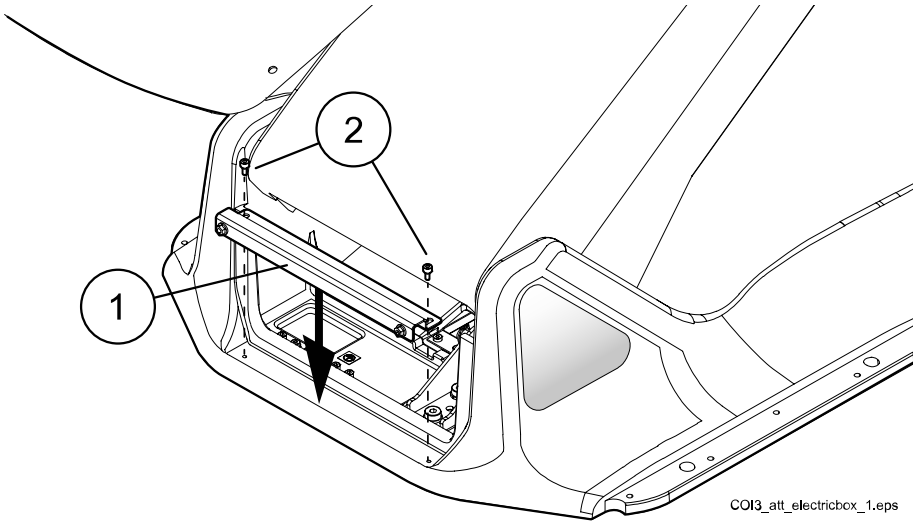
5.1 Attaching junction box to floor

Steps

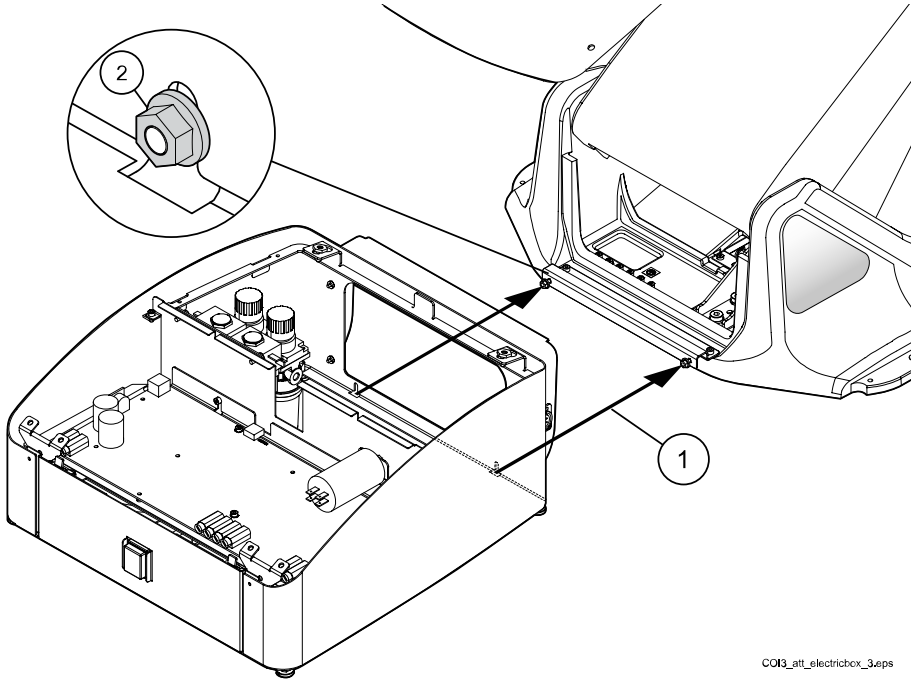
1. Remove the junction box cover.
   1.a. Loosen the fastening screws (1).
   1.b. Lift the front part of the junction box cover (2).
   1.c. Push the cover towards the seat lift column (3).
   1.d. Lift off the cover (4).



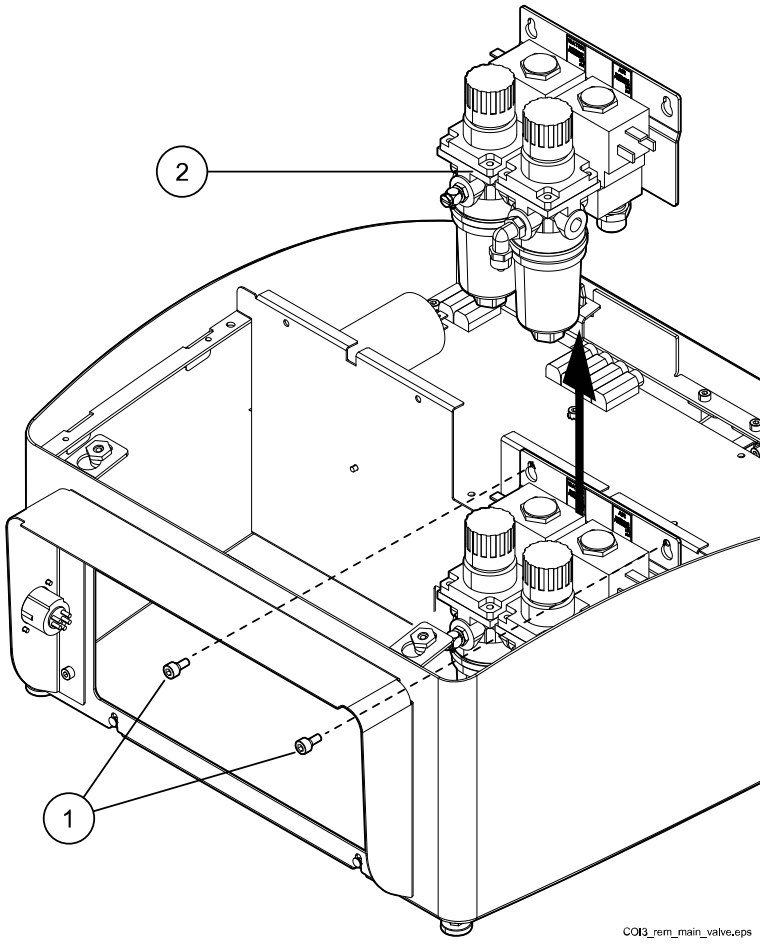
2. Unscrew two nuts and detach the clamp from the junction box. Attach the clamp to the chair base with two screws DIN912 M4x8 using a 3 mm Allen key.



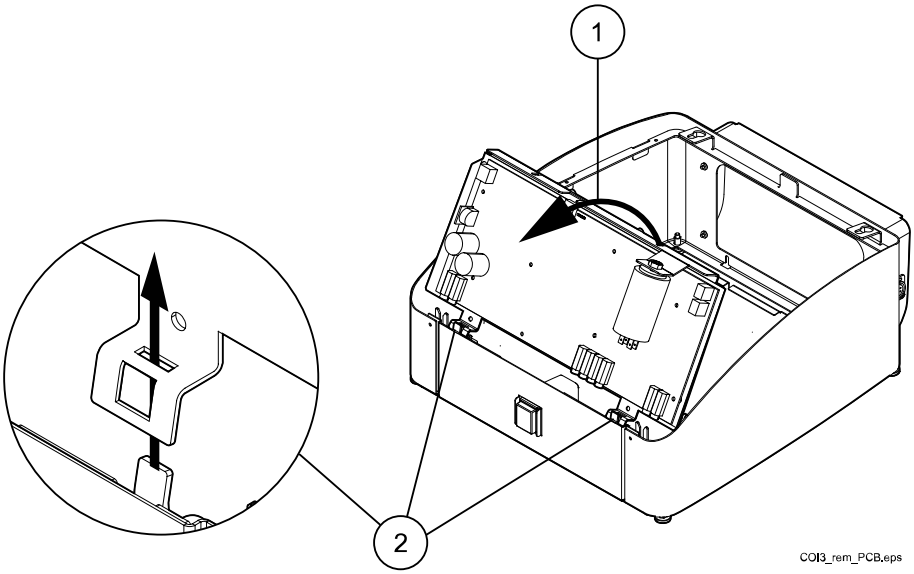
3. Move the junction box into position and attach it to the clamp with two nuts.



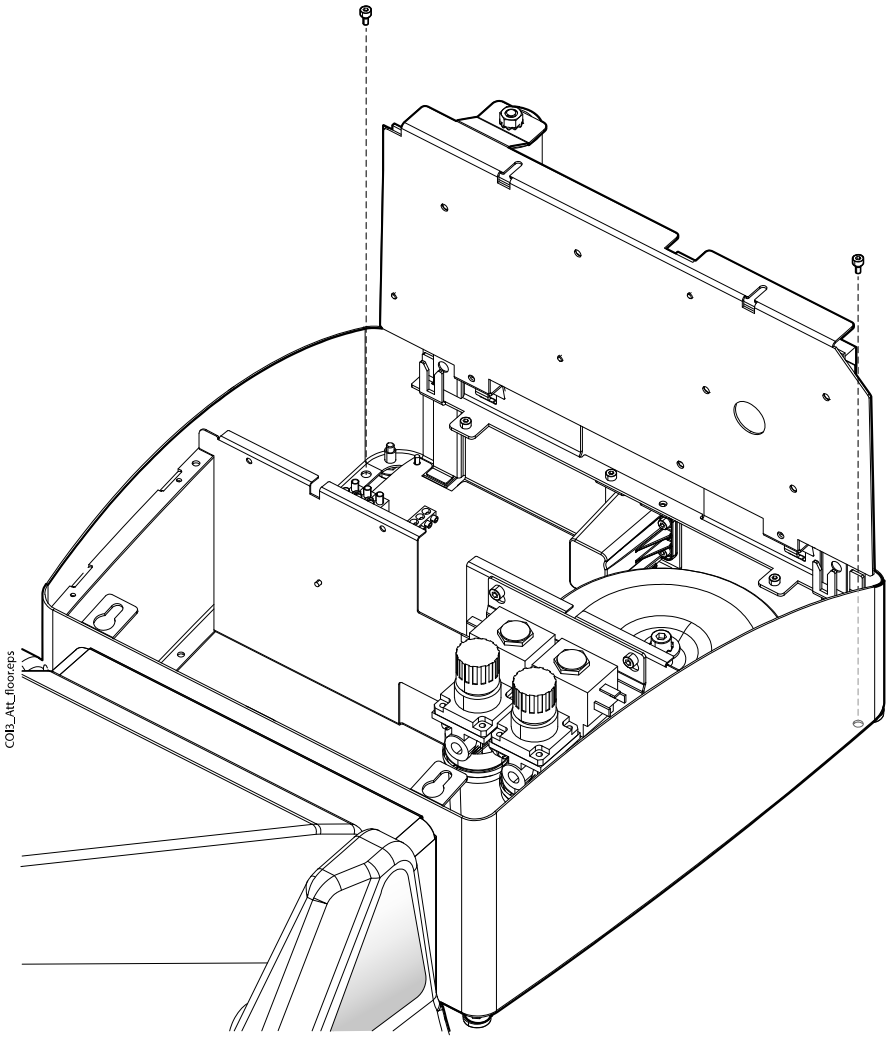
4. Loosen two magnetic valve/pressure regulator assembly attachment screws (1) and lift the assembly from its position (2).



5. Tilt the Main control PCB away upwards (1) and secure it to the clips located on the box frame (2).



6. Attach the junction box to the floor with two screws DIN 7981 4,2 x 25.



5.2 Connecting mains cable

About this task

WARNING

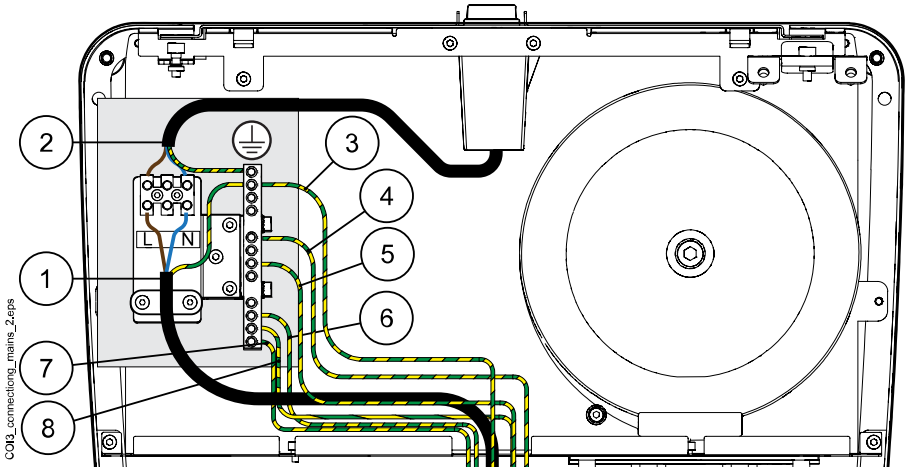
Ensure that the mains leads are not connected to any power source before connecting them to the unit.

NOTE

Do not peel the protective sleeve of the mains power cable more than necessary to keep the leads of the cable as short as possible. The maximum length of the peeled line and neutral leads is 30 mm.

Steps

1. Route the mains cable that comes from the floor to the mains terminal.
2. Connect the line lead of the cable to the terminal marked **L**. Connect the neutral lead of the power supply cable to the terminal marked **N** on the terminal block (1). The on/off switch is connected to the terminal block at the factory (2).
3. Attach the grounding lead to the ground terminal.



4. These grounging leads are connected to the junction box ground terminal during the installation: Emerald (optional) (3), chair seat (4), chair front ground panel (5), junction box cover (6), seat bottom gound point (7) and OP delivery arm console (8).
5. Place the Main control PCB back to its position.

5.3 Connecting chair cables

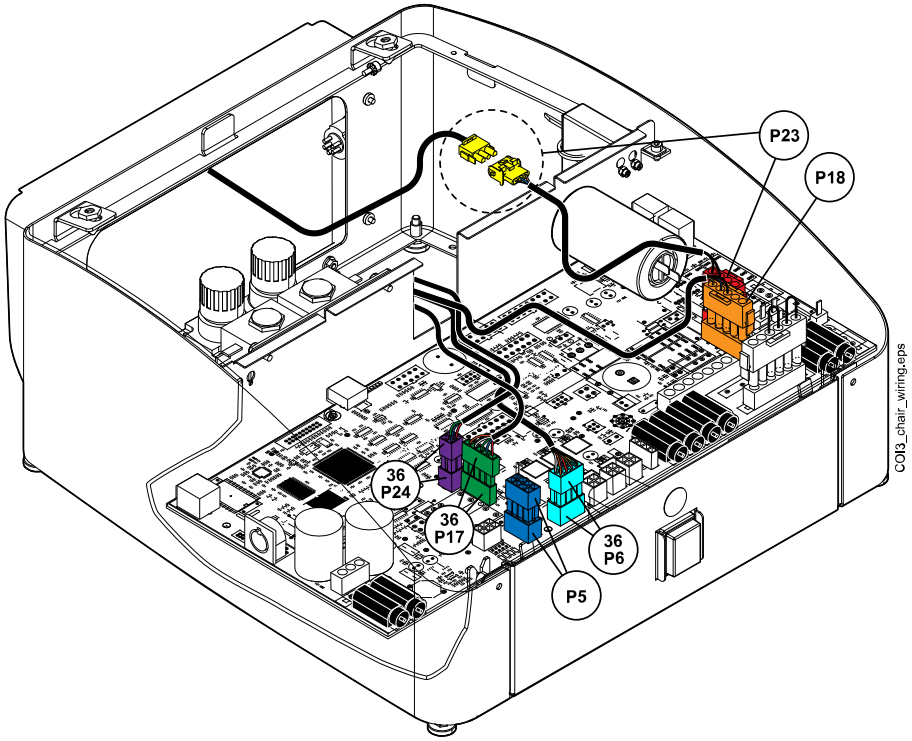
About this task

The chair cables must be connected before the chair can be driven out from the transportation position.

Steps

1. Do not remove the jumper from the connector P5 on the Main control PCB yet.

2. Connect the chair lift motor cable to the cable coming from the Main control PCB.
3. Connect the lift motor potentiometer cable to the connector P24 on the Main control PCB.
4. Connect the backrest motor cable to the connector P18 on the Main control PCB.
5. Connect the backrest motor potentiometer cable to the connector P17 on the Main control PCB.
6. In case the optional suction element is installed, connect the suction arm and safety extension cable to the connector P6 on the Main control PCB.



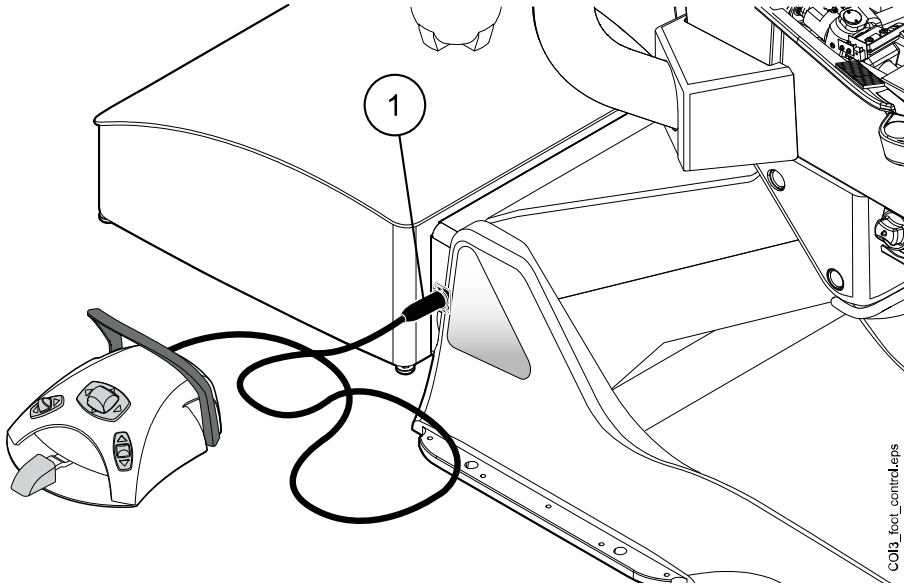
6 Installing foot control

About this task

The foot control must be connected to the dental unit so that the chair can be driven out from the transportation position.

Steps

1. Connect the foot control cable to the connector at the junction box side (1).



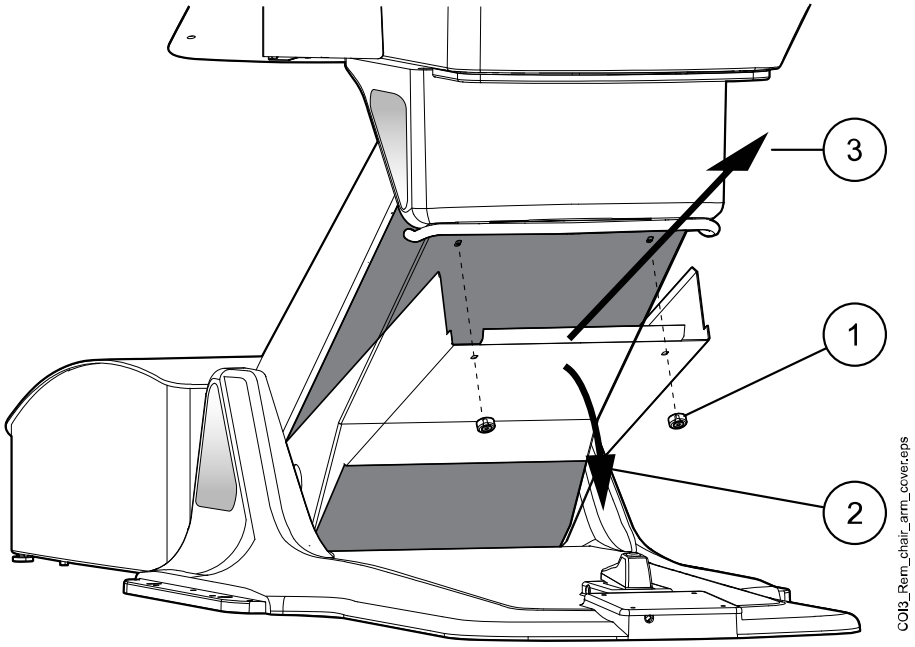
2. Switch the power source and the dental unit on.

7 Installing OP delivery arm

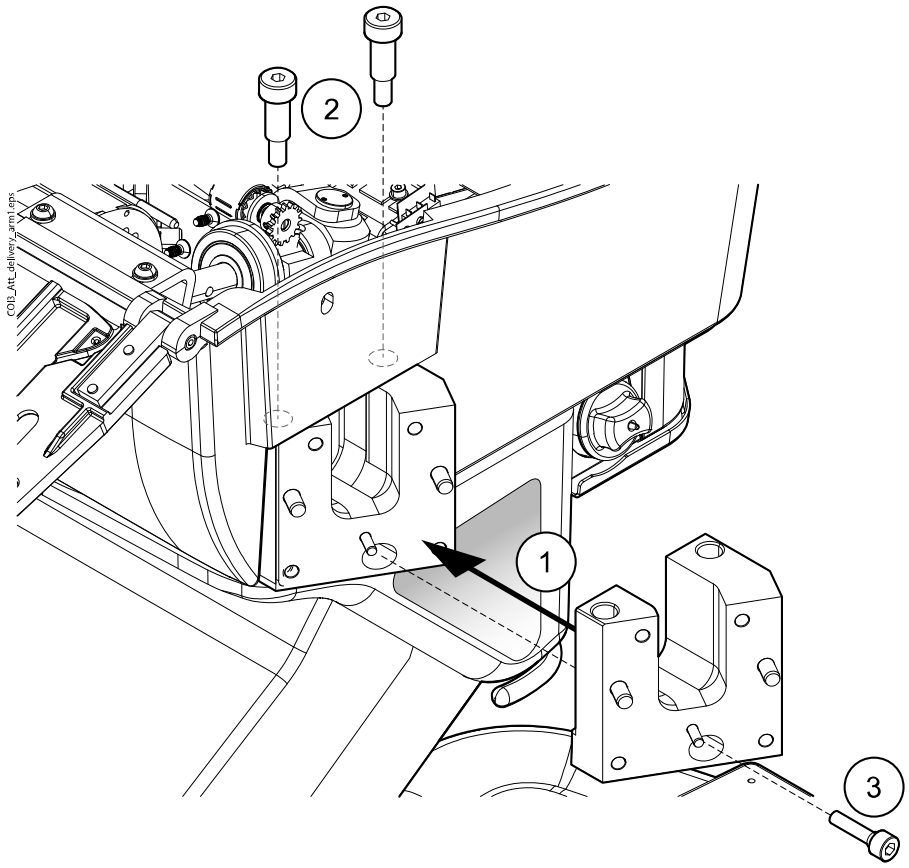
7.1 Attaching OP delivery arm to chair

Steps

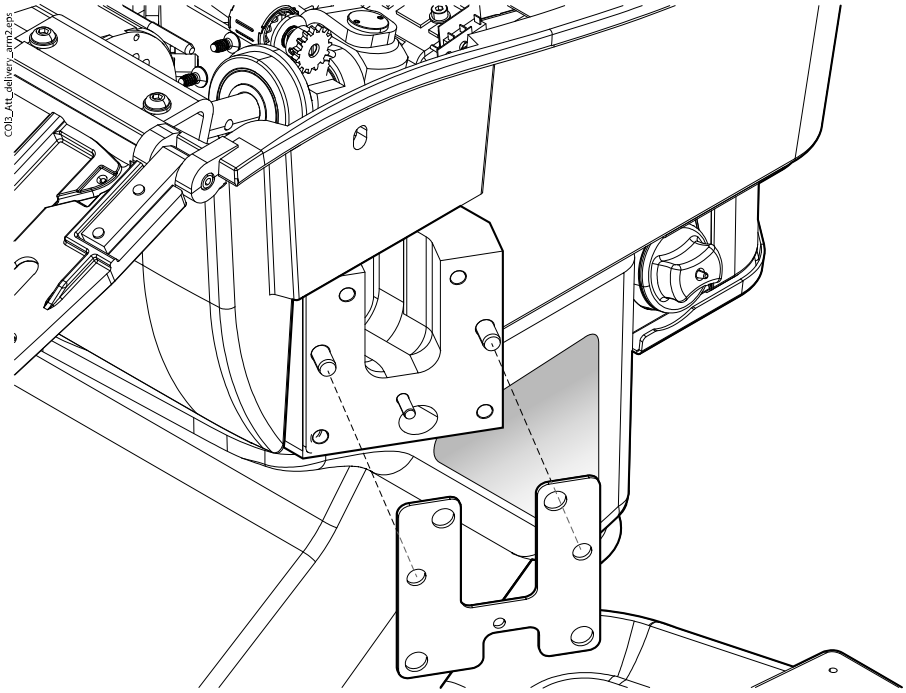
1. Drive the seat to uppermost position. Switch off the dental unit.
2. Unscrew two attachment screws from the lifting mechanism cover plate using a 4 mm Allen key (1). Turn the cover plate downwards (2) and lift it away from the chair (3).



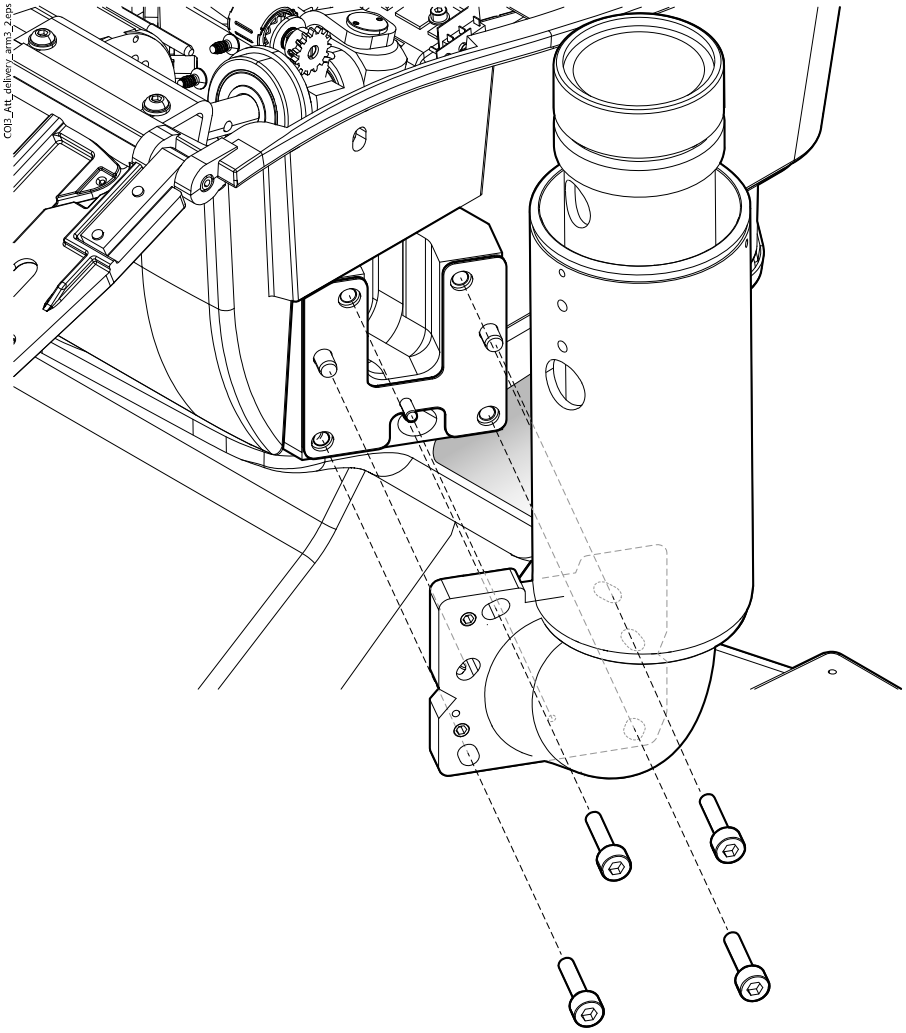
3. Place the adapter mounting plate to its position (1). Secure the mounting plate to its position with attachment screws ISO 7379 12.9 M10/12x25 (2) and M8x30 DIN 912 (3).



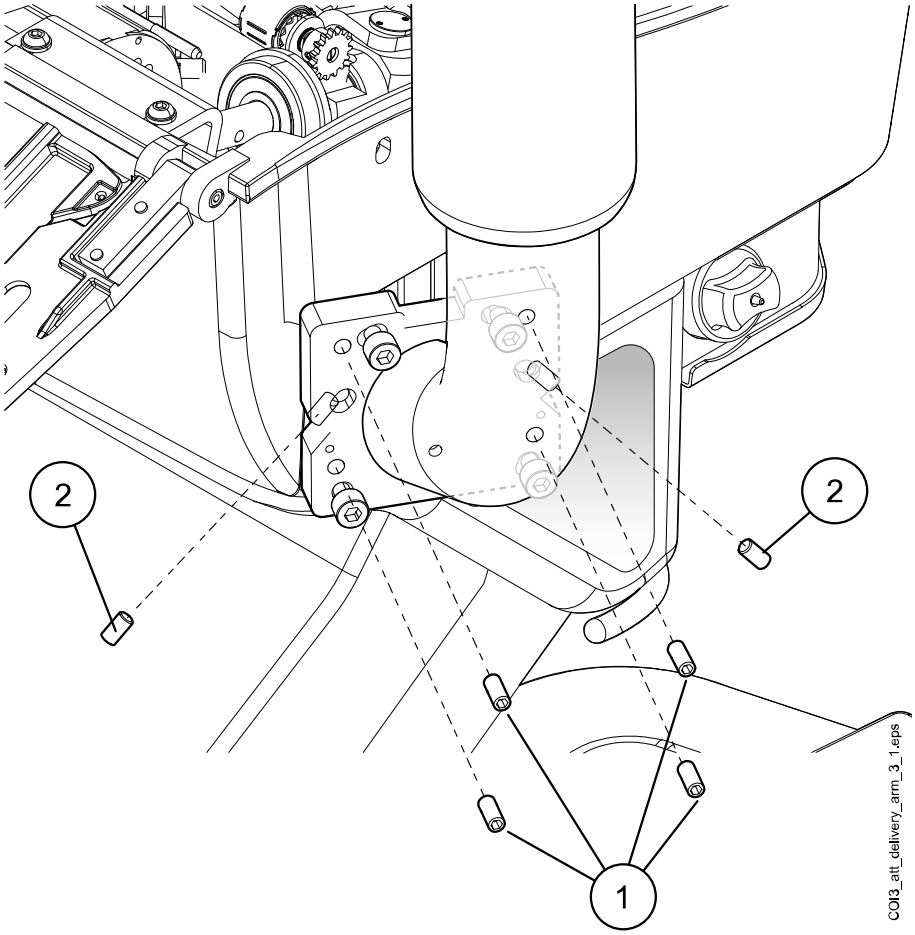
4. Place the adapter cover plate to its position.



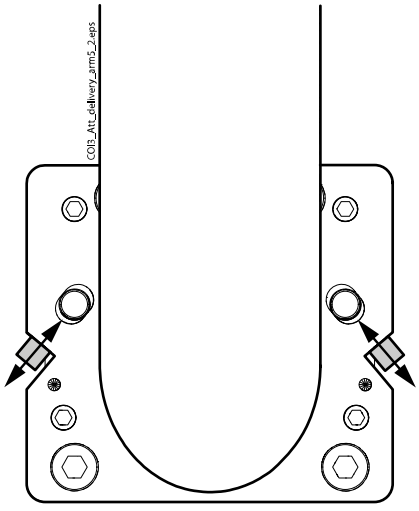
5. Attach the adapter tube to its position with four M8x30 DIN 912 screws using a 5 mm Allen key. Do not tighten the attachment screws yet, the adapter tube position must be adjusted before tightening the screws.

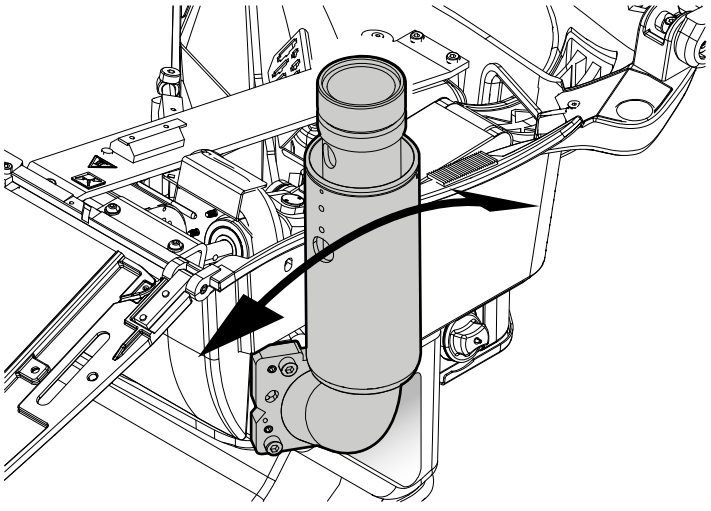


6. Attach the adapter tube plate adjustment screws to their positions: set screws M8x16 DIN 916 (1) and set screws M8x12 DIN 913 (2).

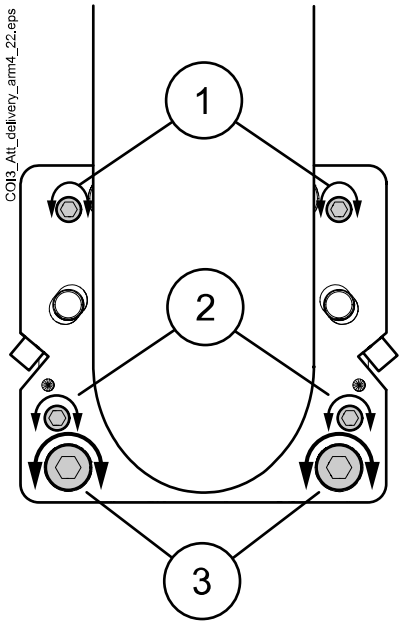


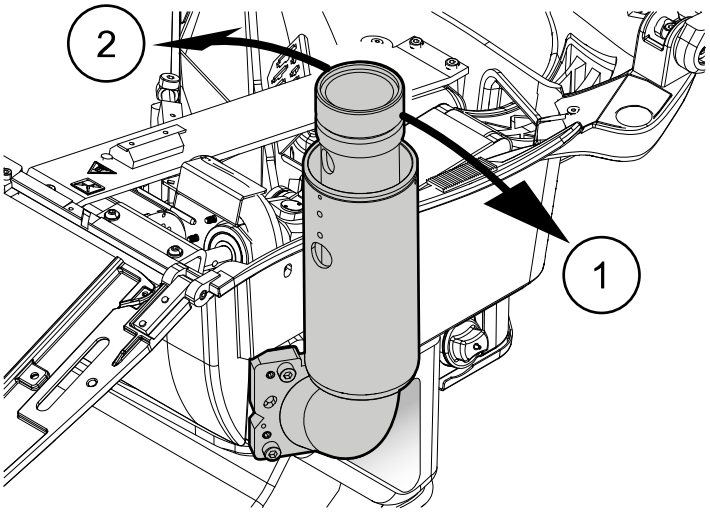
7. Adjust the adapter tube position with two screws located at the side of the adapter plate.



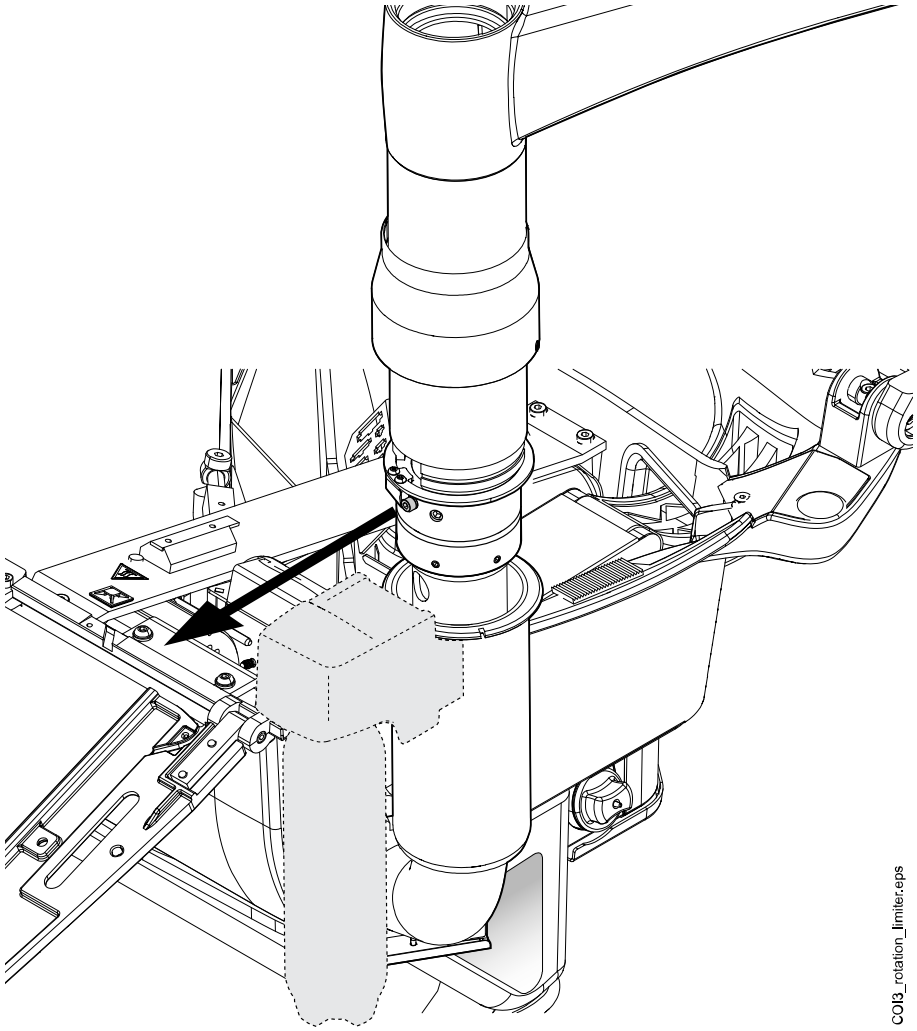


8. Adjust the adapter tube position with the set screws (1 and 2). Tighten the lower attachment screws (3). Tighten the upper attachment screws.

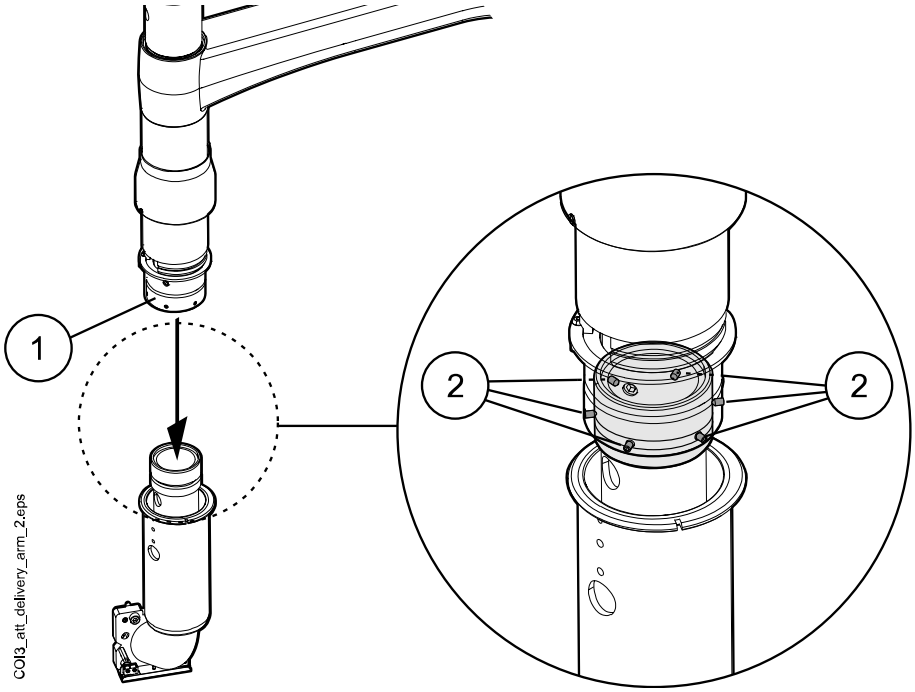




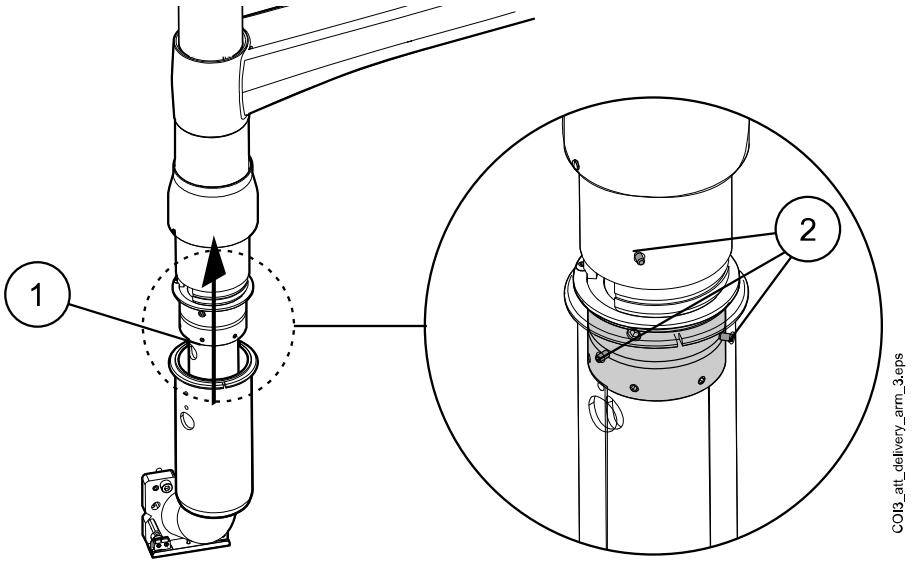
9. The recommended direction of the rotation limiter screw is shown in the figure below.



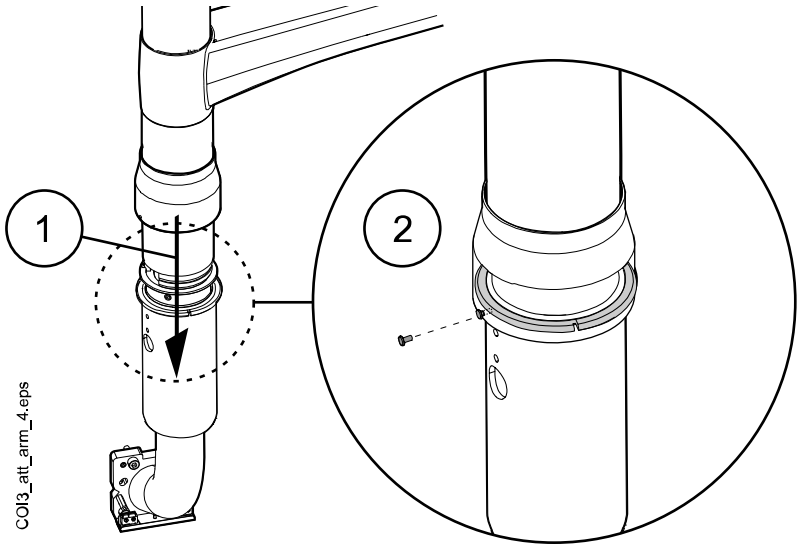
10. Lift the OP delivery arm to the adapter post (1) so that the rotation limiter screw is in the direction shown in step 9 (rotate the arm collar, if needed). Secure the delivery arm to its position with six set screws M6x8 DIN914 (2).



11. Make sure that the joint cover is located so that the openings on the joint cover are towards the chair legrest. Lift the joint cover upwards (1). Secure the joint cover to its position with three set screws M4x6 DIN916 (2).



12. Slide the pole cover down (1) and secure it to its position with a push rivet (2).

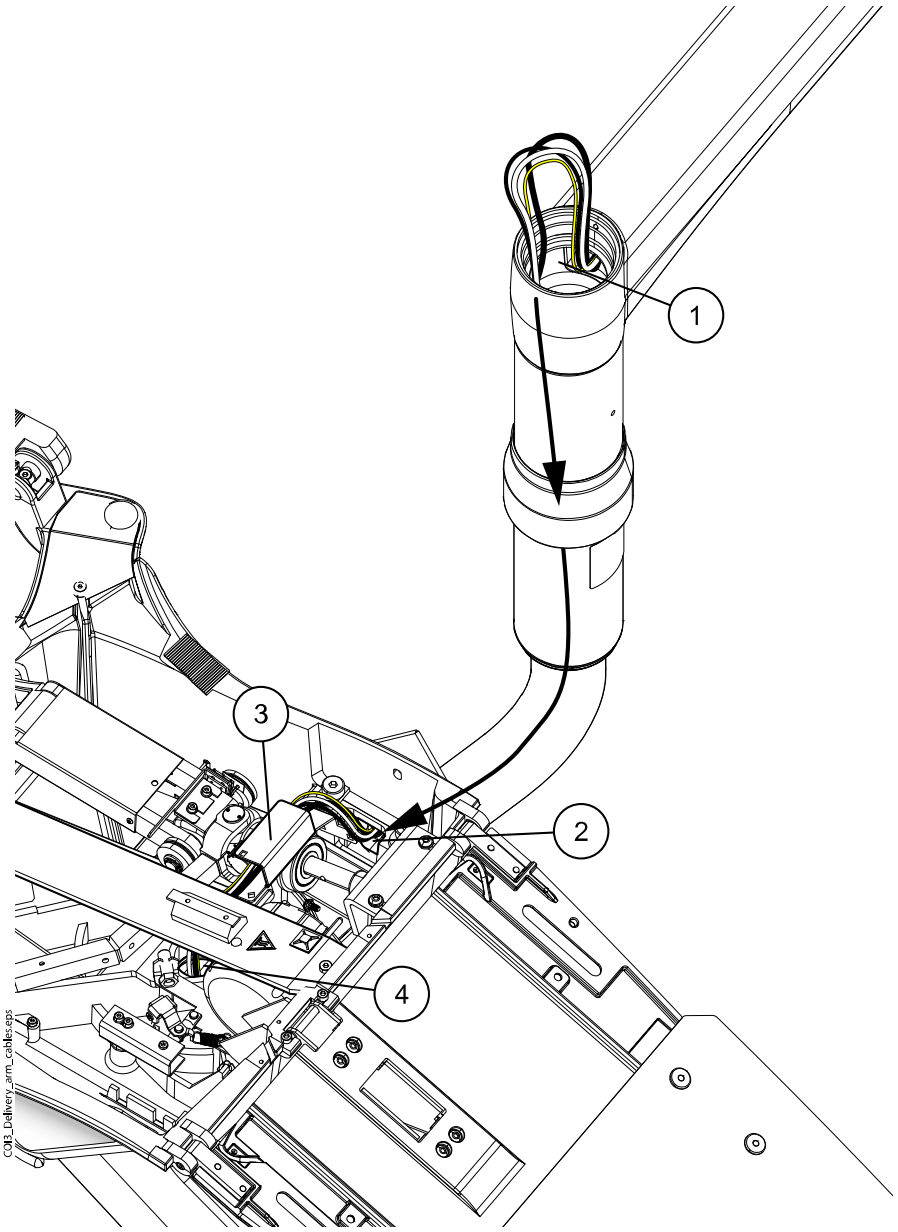


7.2 Installing delivery arm cables

Steps

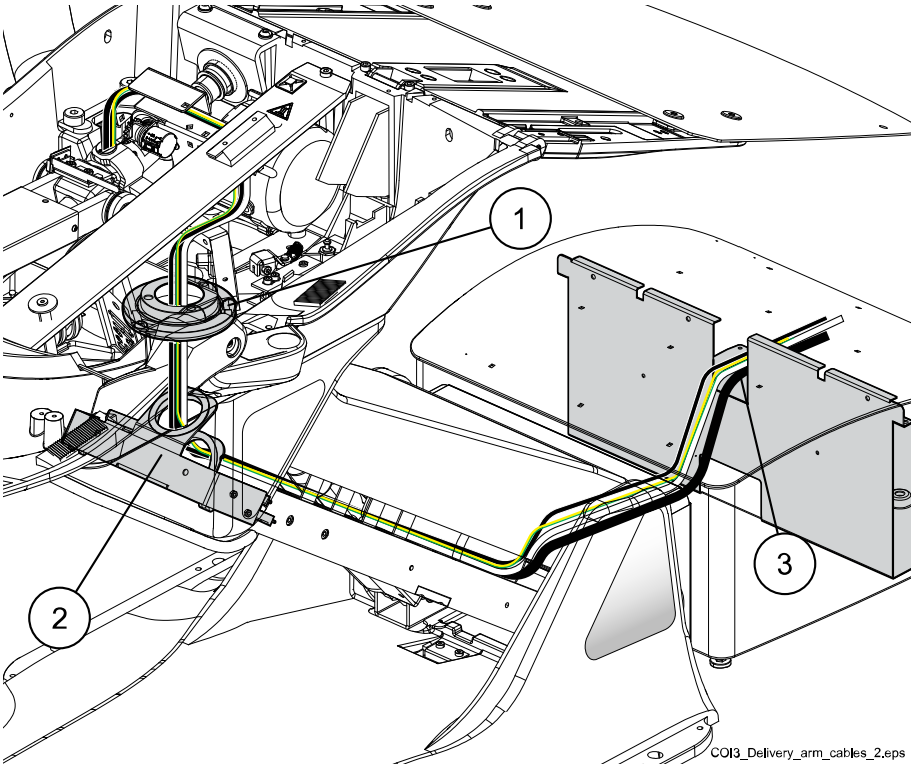
1. Route a cable guide through the vertical post of the delivery arm. Attach the arm cables and tubes to the cable guide.

2. Route the cable guide together with the cables and tubes through the adapter tube (1) and into the seat (2). Route the cables and tubes below the mounting plate (3) and through the seat opening (4).

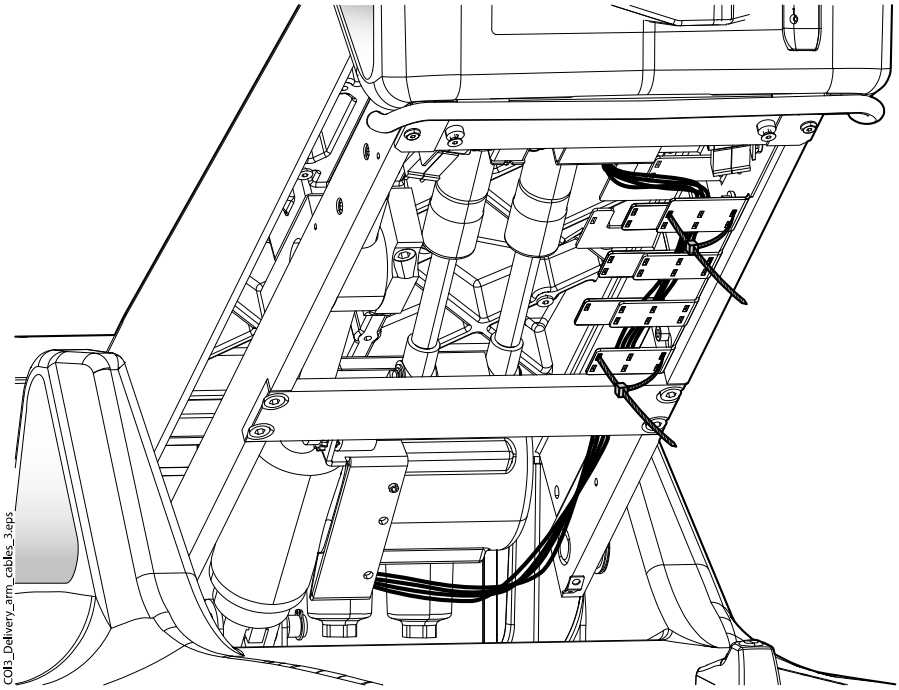


3. Route the cables and tubes from the seat (1 and 2) along the lifting mechanism and to the junction box (3).

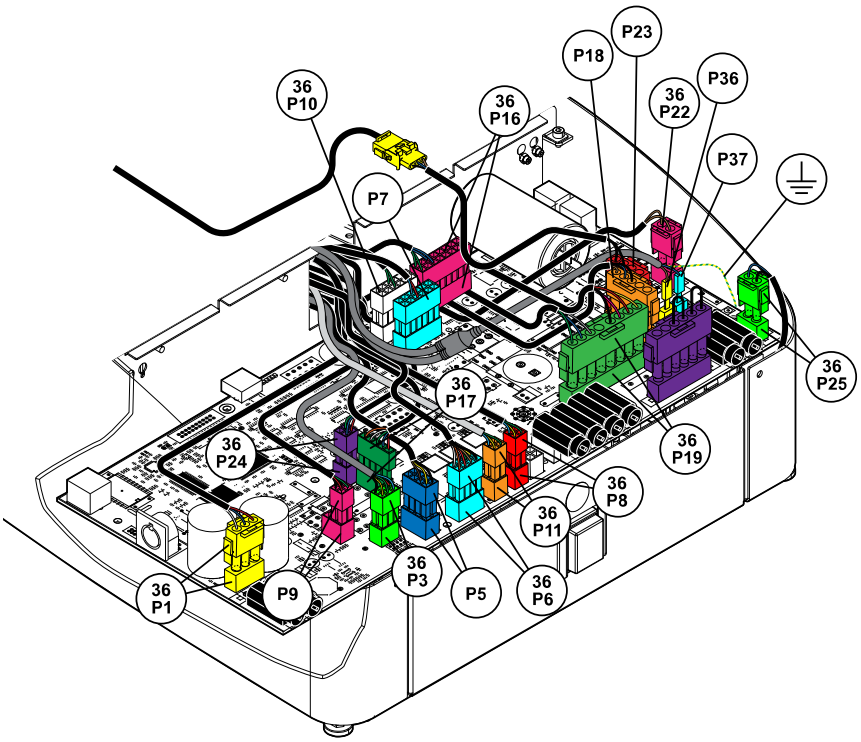
   In the lifting mechanism, the cables and tubes are placed on the lower cable duct.



4. Secure the cables and tubes as shown in the figure below.

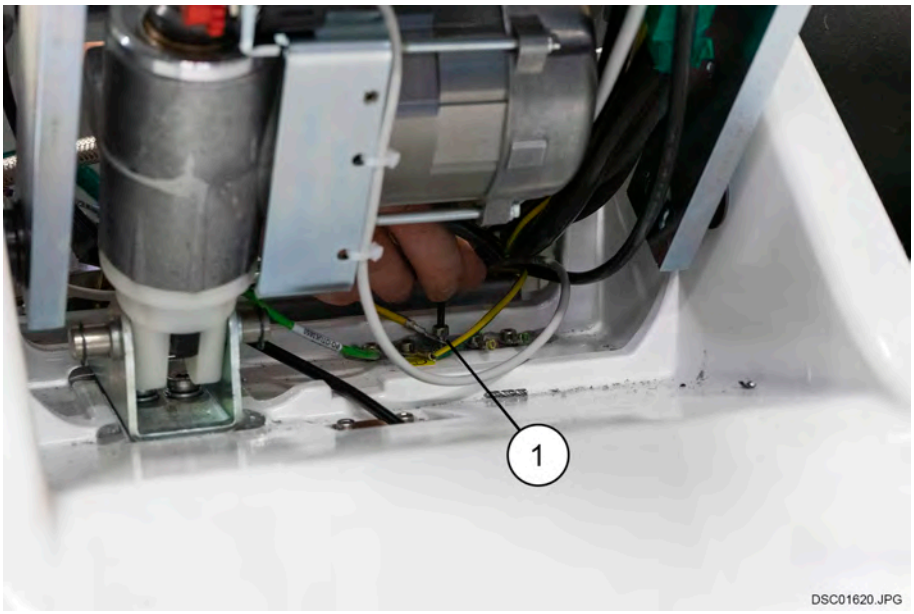


5. Remove the jumper from the connector P5 on the Main control PCB and connect the OP delivery arm cable to that connector. Connect the other cables to the Main control PCB. All the cables are marked.



COI3_PCB_wiring_2.eps

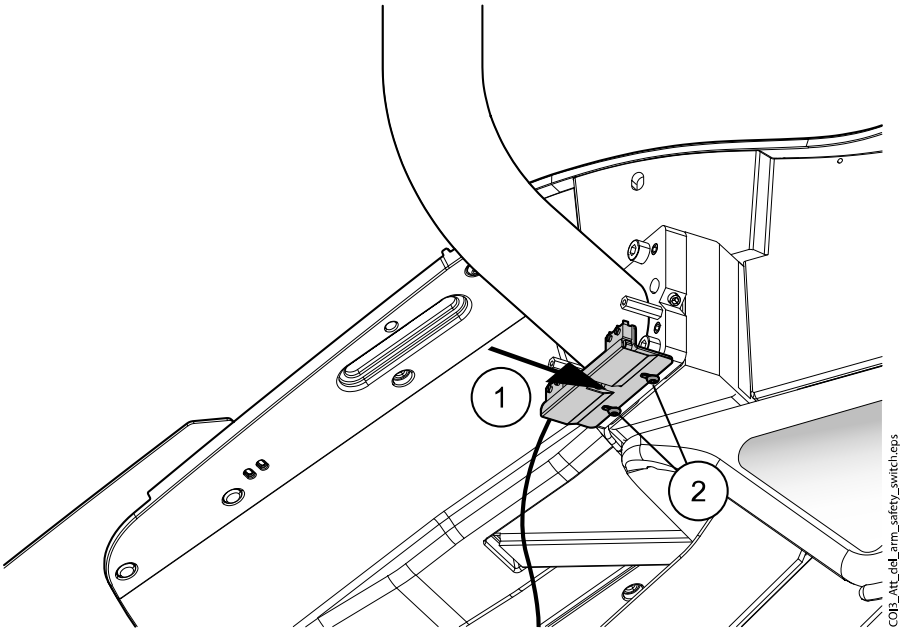
6. Attach the chair gounding lead to the grounding terminal located on the chair base.



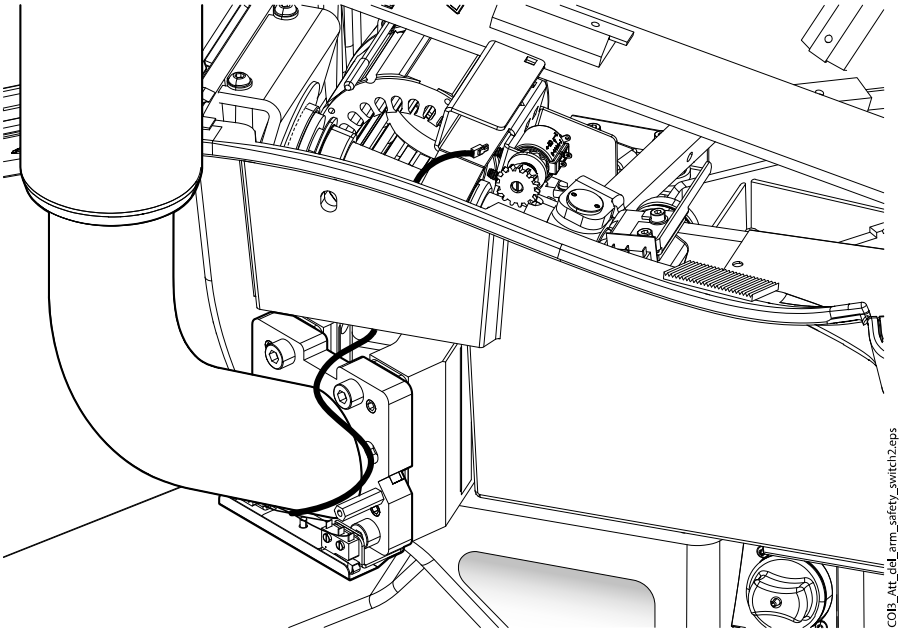
7.3 Installing safety switch

Steps

1. Place the microswitch assembly (1) to its position and secure it with two screws ISO7380-1 M4x8 (2).



2. Route the microswitch cable into the seat casting as shown on the figure below.



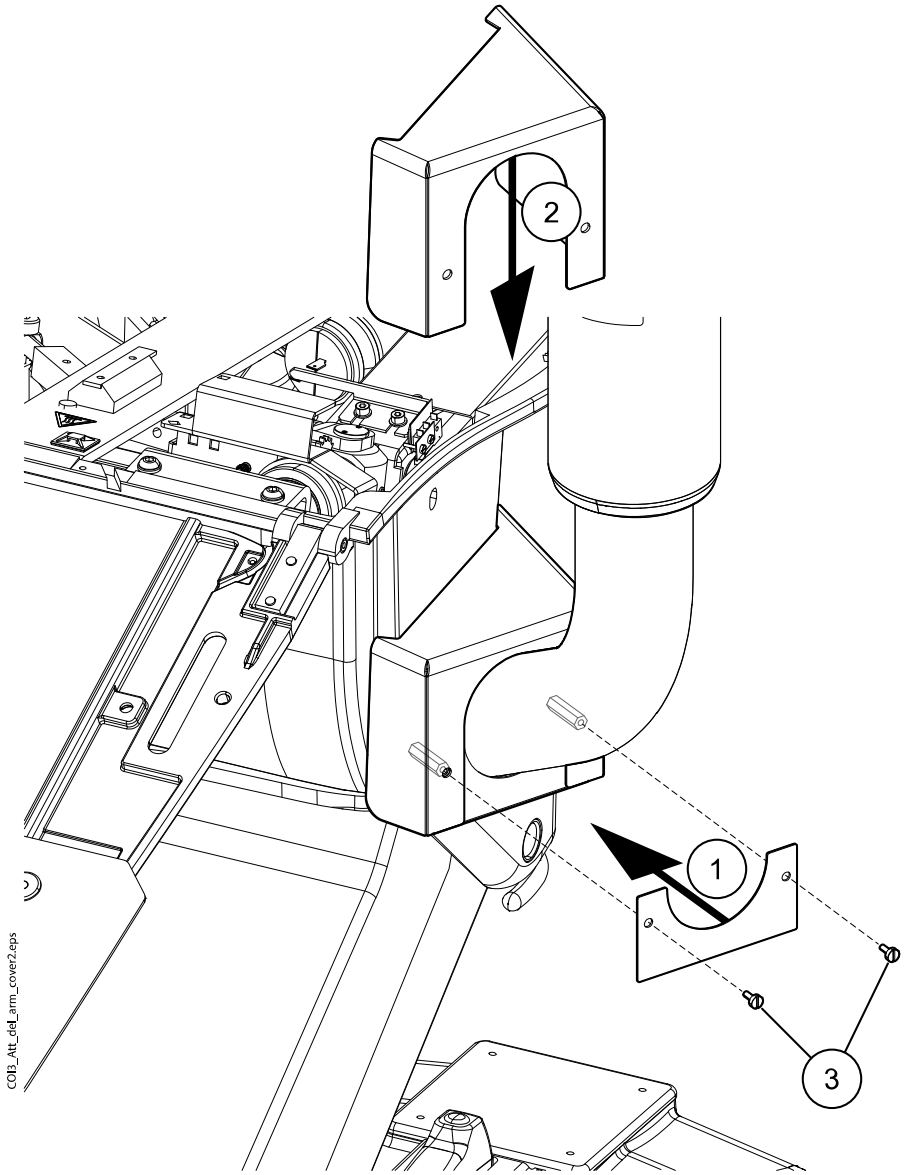
3. Remove the jumper from the seat microswitch and connect the microswitch cable to that connector.

7.4 Attaching covers

Steps

1. Attach the hex spacers to the adapter tube plate.

2. Place the lower cover plate (1) and adapter cover plate (2) into position. Attach the cover plates with two screws DIN84 M4x8 (3).



7.5 Dental units without operating light and monitor

About this task

If you are not installing the operating light and / or monitor, a cover plug is inserted to the OP delivery arm opening.

Steps

1. Place the cover plug over the operating light opening on the delivery arm so that the fastening screw hits opening on the cover plug.

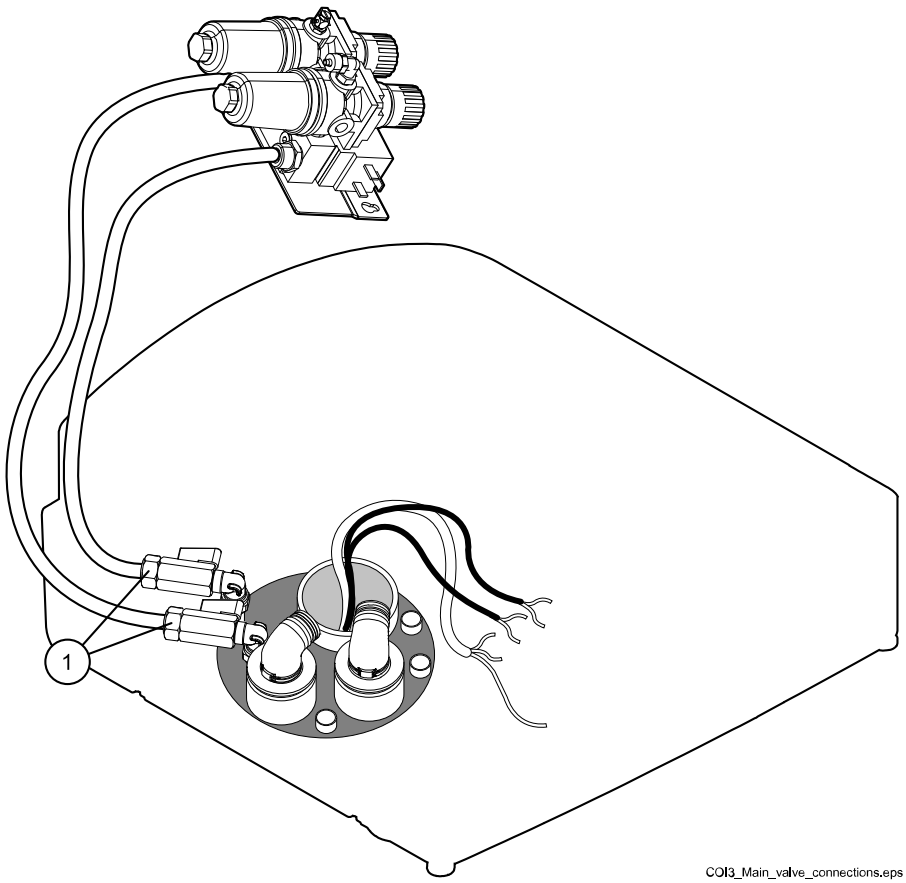
7.6 Connecting water and air tubes

About this task

Before connecting the air and water tubes make sure that you have correctly identified the floor tubes. Even when they are already labelled it is good to double-check them.

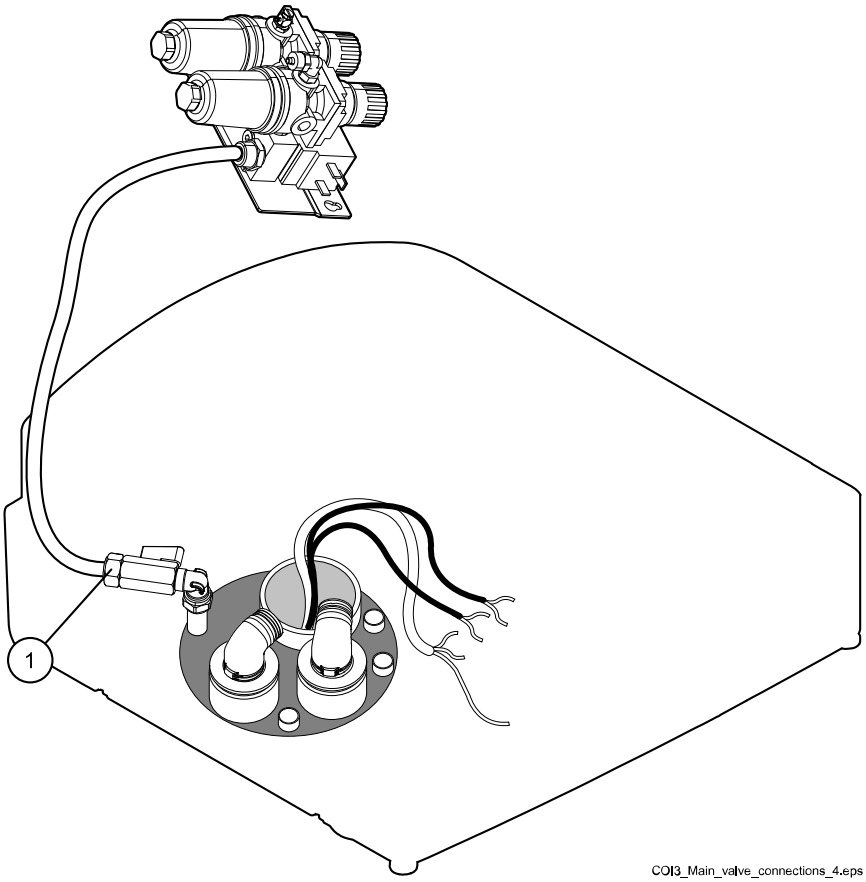
Steps

1. Connect the water and air inlet tubes to the corresponding angle nipples on the floor (1).

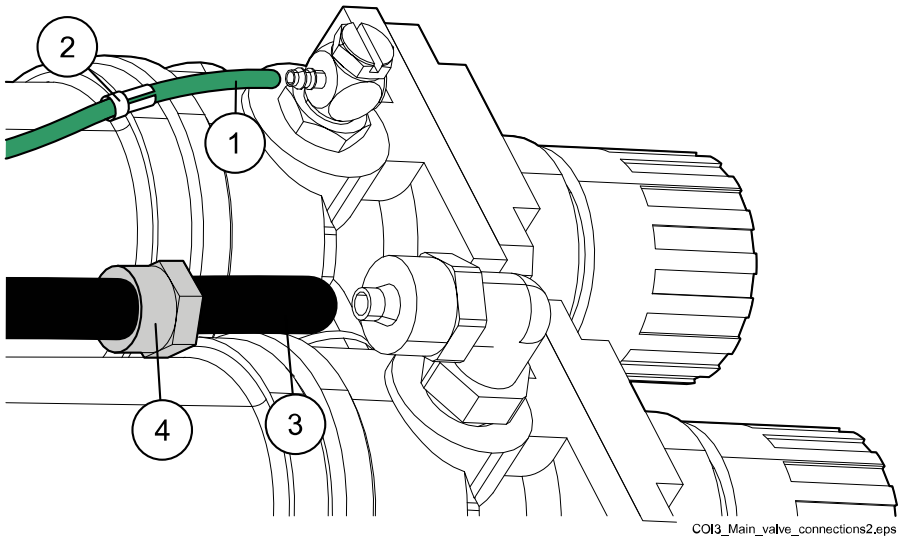


NOTE

Dental units without city water: Connect only the air tube to the magnetic valve/ pressure regulator assembly (1).

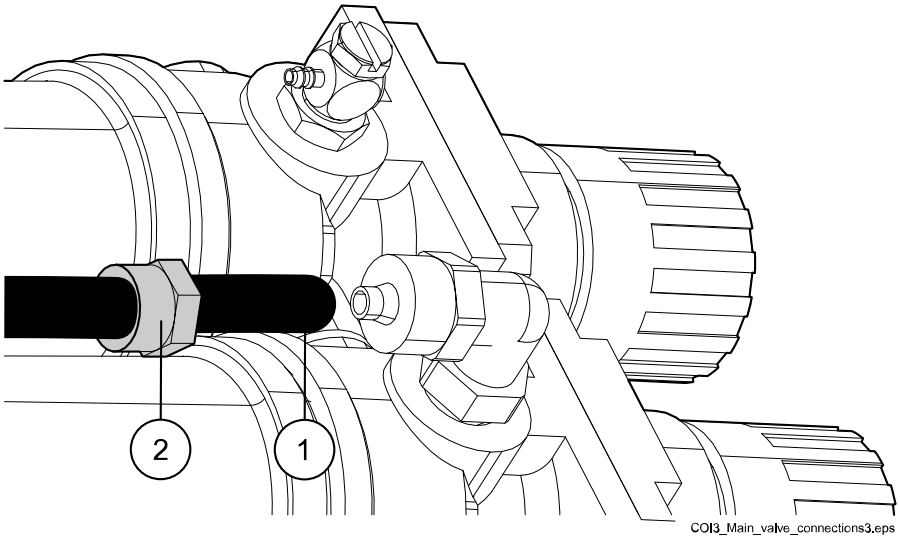


2. Connect the delivery arm water tube to the nipple at the magnetic valve/ pressure regulator assembly (1). Secure the water tube with the tube clamp (2). Connect the air tube to the nipple in the front of the air pressure regulator (3). Secure the air tube (4).

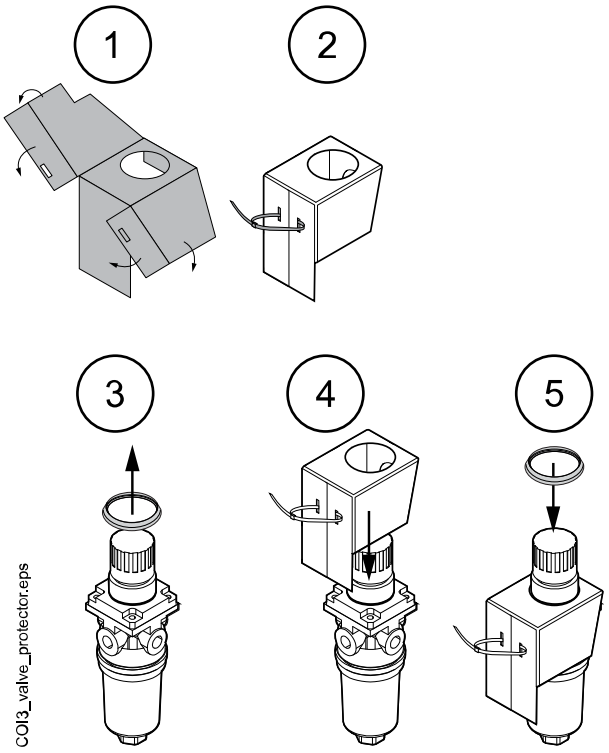


NOTE

Dental units without city water: Connect the air tube to the nipple in the front of the air pressure regulator (1). Secure the air tube (2).



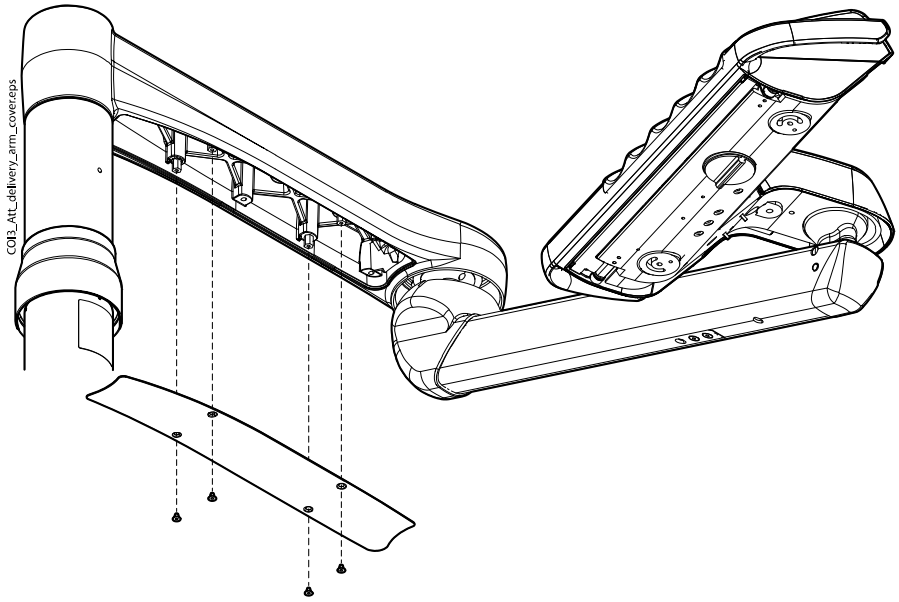
3. Shield the water main valve with a main valve splash protector.
   - 3.a. Fold the splash protector (1, 2).
   - 3.b. Remove the lock ring from the water main valve (3).
   - 3.c. Place the splash protector on the water main valve (4).
   - 3.d. Place the lock ring back on the water main valve (5).



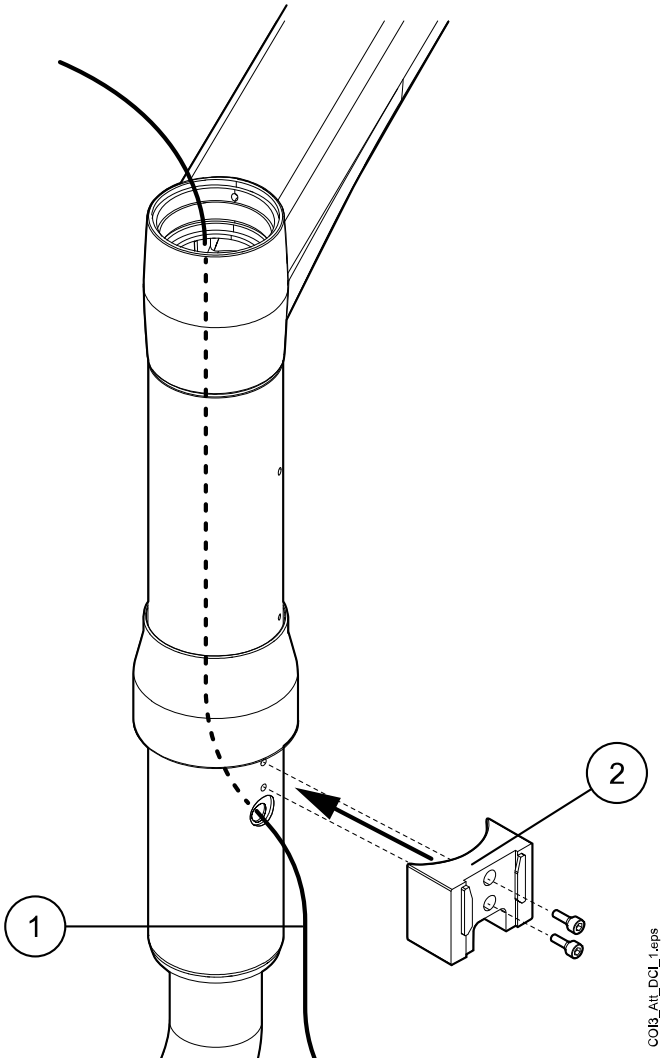
8 Installing Clean water system

Steps

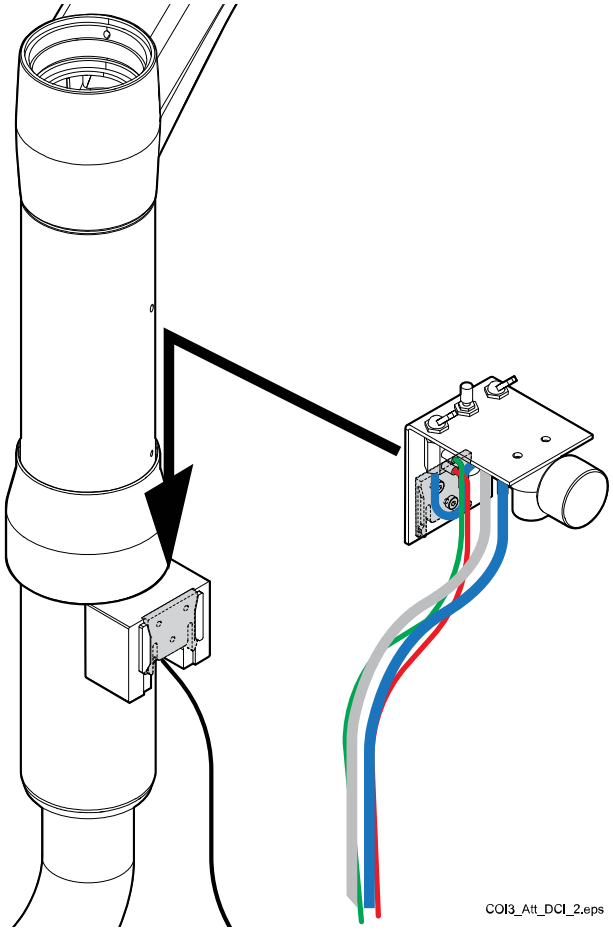
1. Unscrew four arm panel attachment screws and remove the arm panel.



2. Route the cable guide (**1**) through the delivery arm. Attach the clean-water bottle mount (**2**) to the adapter tube with two screws DIN 912 M6x16 using a 5 mm Allen key.

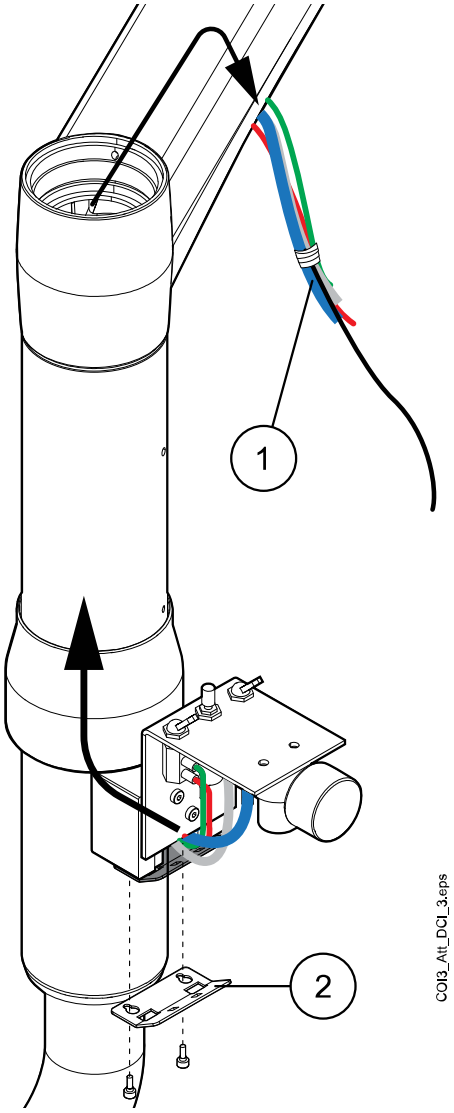


3. Slide the clean-water bottle attachment assembly onto the clean-water bottle mount.



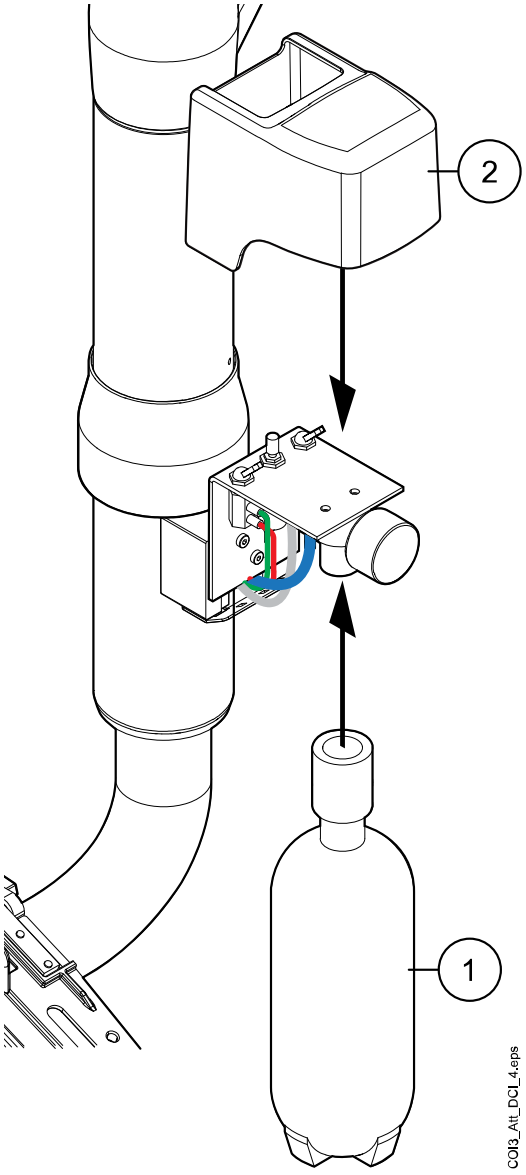
4. Attach the air and water tubes and cables to the cable guide (**1**) and pull them through the delivery arm to the underside of the vertical arm.

Attach the hose guide (**2**) to the clean-water bottle mount with two screws DIN 912 M4x10.



5. Attach the tubing in the delivery arm. **Refer to the figure about assistant's syringe installation on section "Installing suction element" on page 60.**
   5.a. Cut the protective tube.
   5.b. Cut the black air tube and the green water tube.
   5.c. Connect the water tubes to the manifold: green water tube coming from the magnetic valve / pressure regulator assembly, green water tube going to the instrument console, green water tube coming from the clean-water bottle and red water tube coming from the clean-water bottle.
   5.d. Connect the air tubes to the Y-nipple: black air tube coming from the magnetic valve / pressure regulator assembly, black air tube going to the instrument console, grey air tube coming from the clean-water bottle.
6. If you are not going to install the vertical arm, attach the arm panel with four arm panel attachment screws.

7. Attach the clean-water bottle (**1**) to the clean-water bottle attachment assembly. Place the clean-water bottle cover (**2**) on the attachment assembly.



9 Installing vertical arm

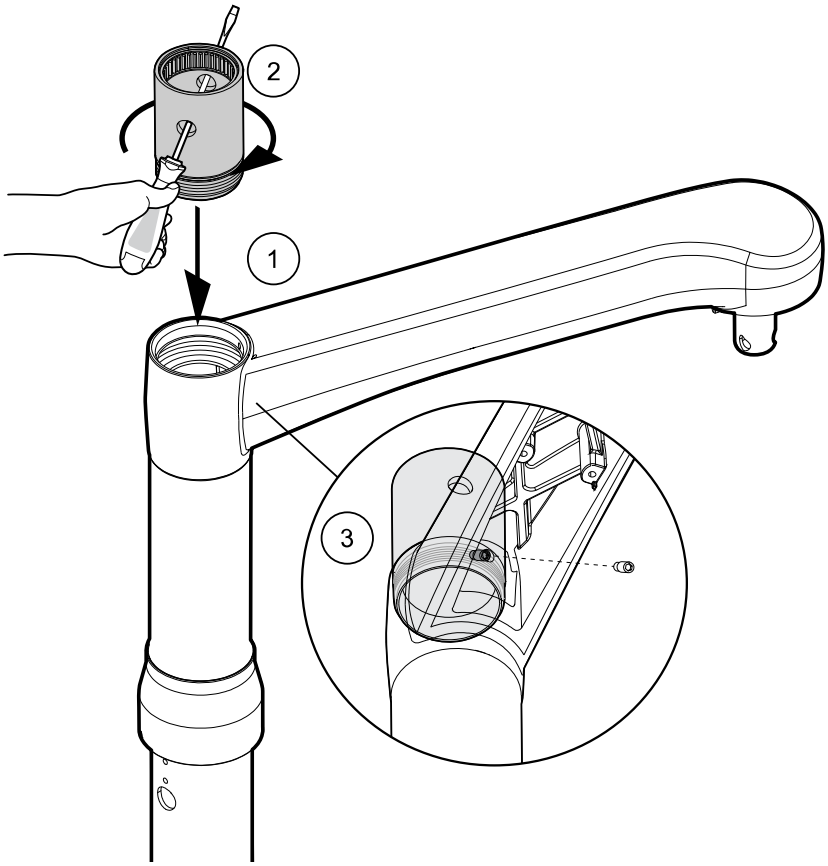
About this task

NOTE

The monitor and the Planmeca Solanna operating light are optional features.

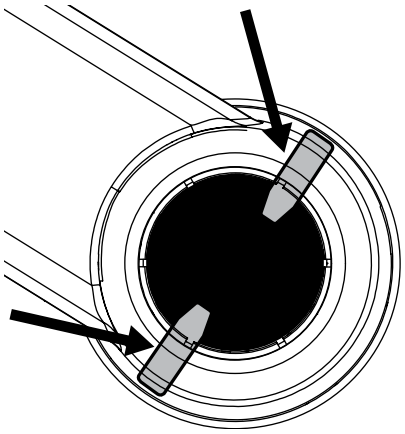
Steps

1. Attach the adapter tube on the OP delivery arm (1).
   1.a. Screw the adapter tube into place (2).
   1.b. Secure the tube to its position with the fastening screw (3).



COI3_Att_adapter_tube.eps

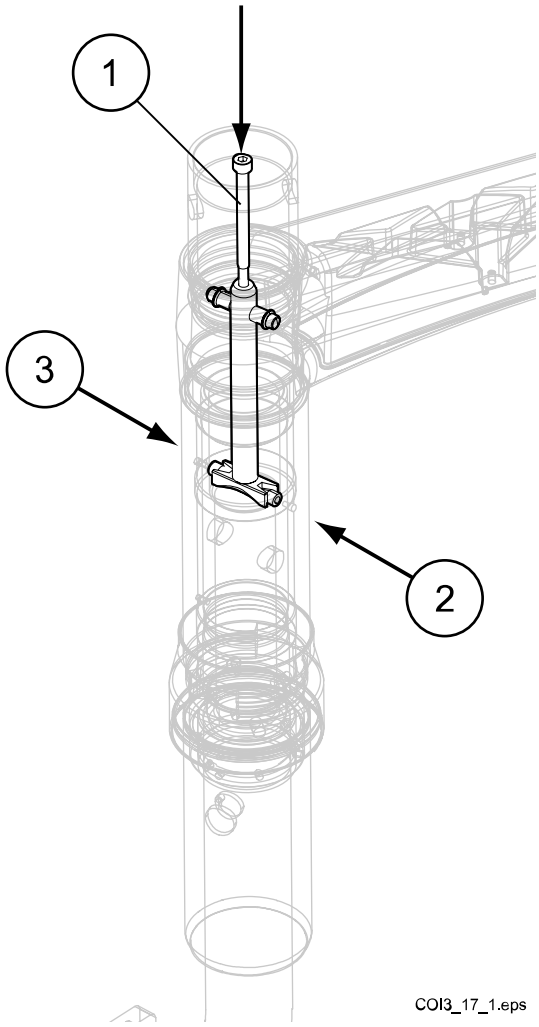
2. Two arm shaft attachment pins are located inside the delivery arm.



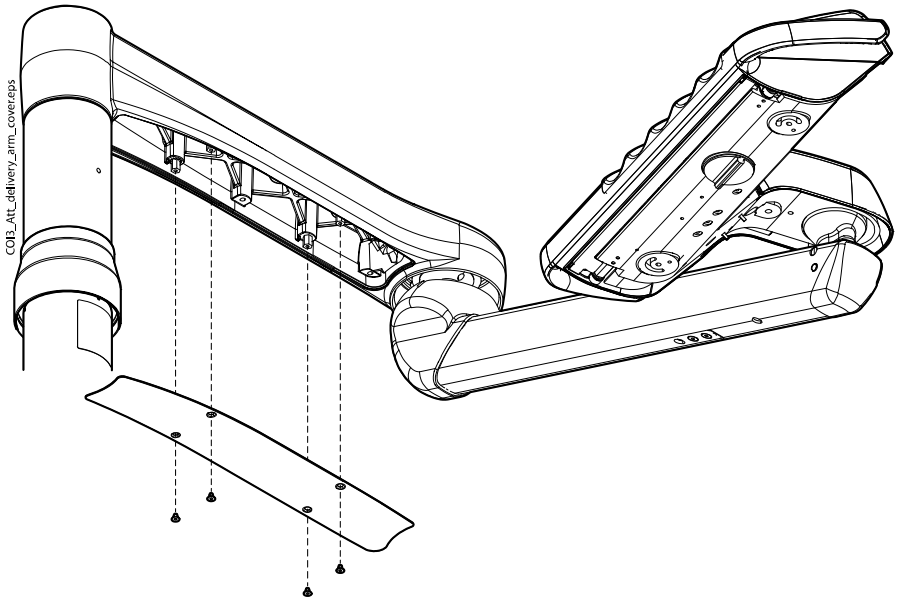
COI3_arm_shaft_pins.eps

3. Place the arm shaft (1) into the opening of the delivery arm so that the attachment pins go into the arm shaft forks. Rotate the arm until you can see the attachment screws through the small openings on the vertical post of the delivery arm (2, 3). Tighten the screws using a 3 mm Allen key.

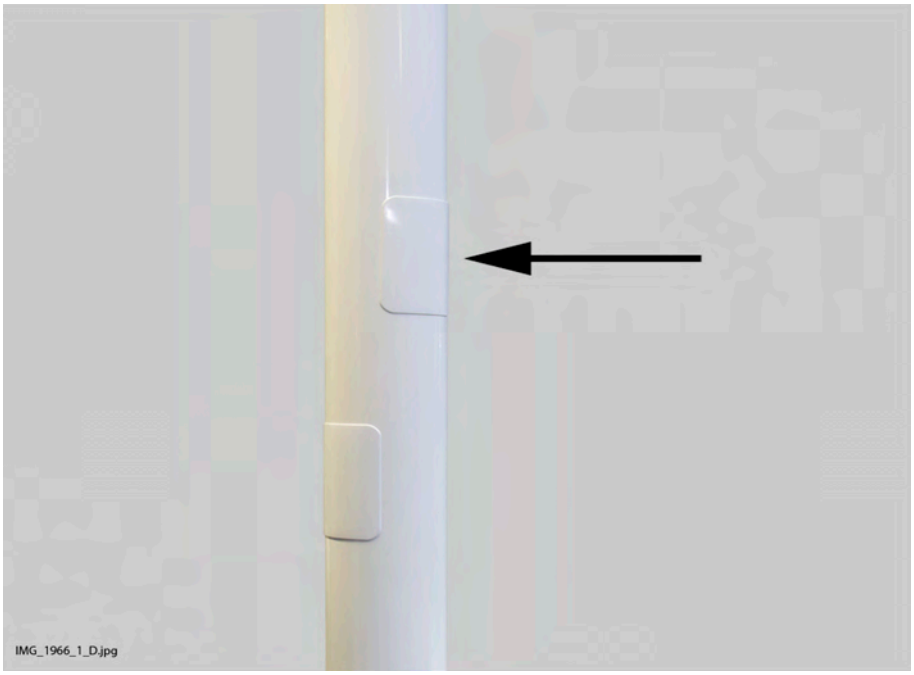
   The arm shaft divides the inside of the vertical post into two. Route the monitor and operating light cables through the side that is farther away from the horisontal delivery arm.



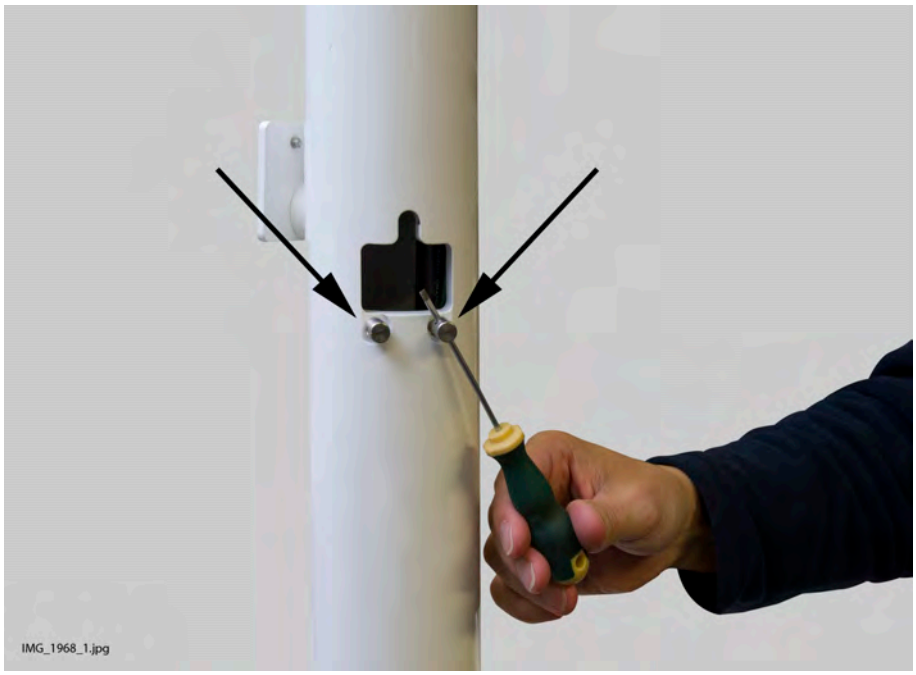
4. Attach the arm panel with four arm panel attachment screws.



5. **Monitor:** Remove the post opening cover from the monitor attachment point on the vertical arm.



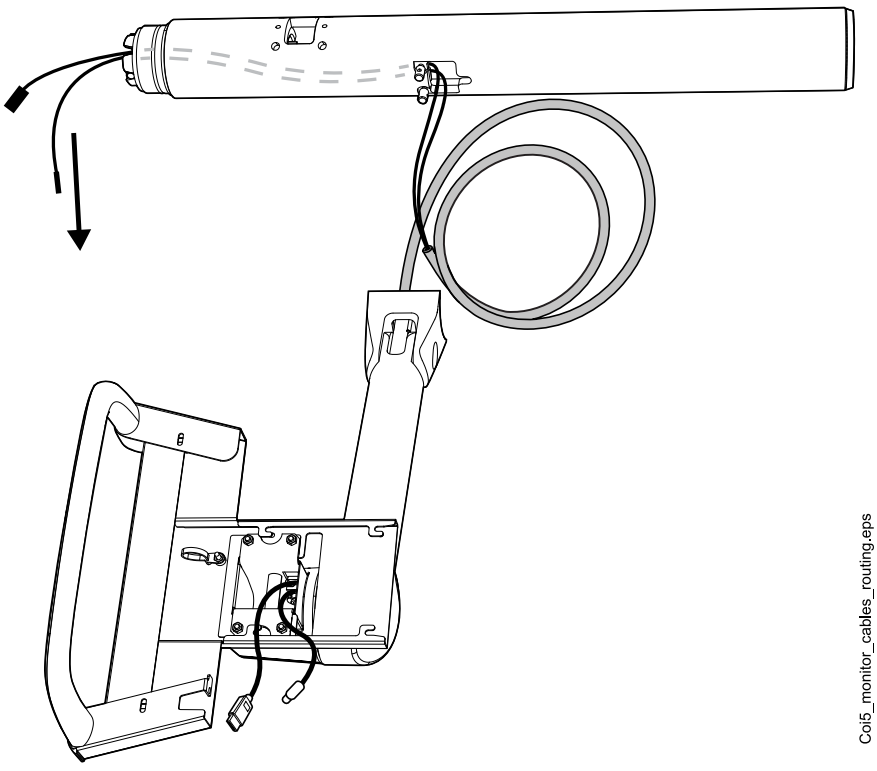
6. **Monitor:** Mount the guide pins to the vertical arm.



7. **Monitor:** The monitor cables (monitor HDMI cable and power cable) are routed through the monitor arm at the factory. Route the monitor cables through the vertical arm before attaching the arms to the unit. The cables are attached to the monitor arm with cable tie. **Do not detach the cables.**

NOTE

The monitor arm is installed in the same way with or without the operating light. Only the length of the vertical arm varies in different installation options.



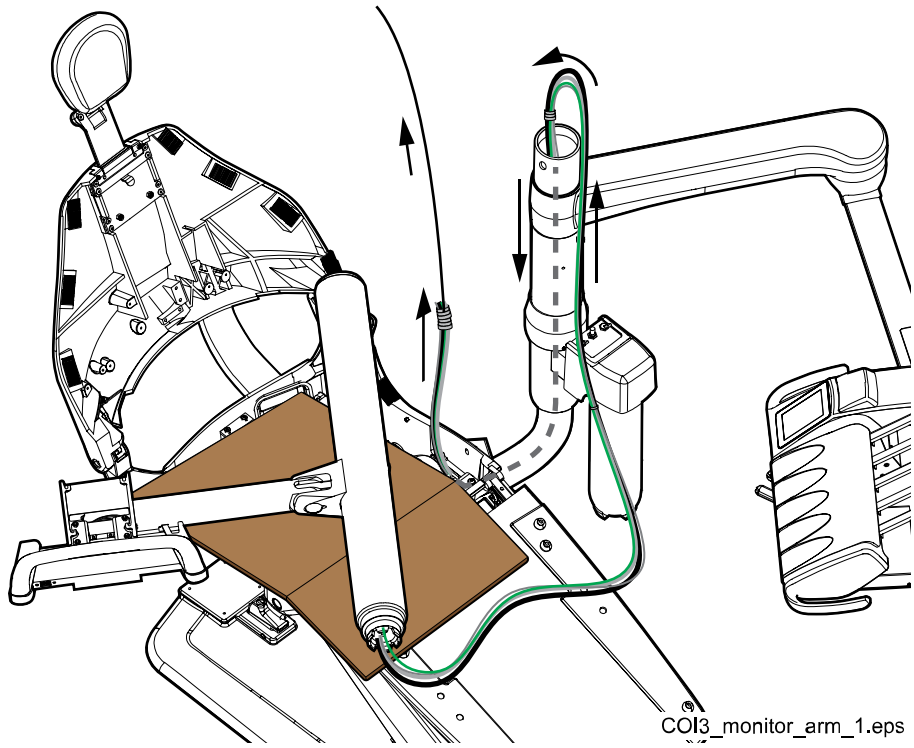
8. **Monitor:** Attach the monitor arm to the vertical arm with one attachment screw using an 8 mm Allen key.

9. **Monitor:** Route a cable guide from the inside of the seat through the vertical post of the delivery arm. Attach the monitor cables to the cable guide.

NOTE

The inside of the vertical post is divided into two. Route the cable guide through the side that is farther away from the horisontal delivery arm.

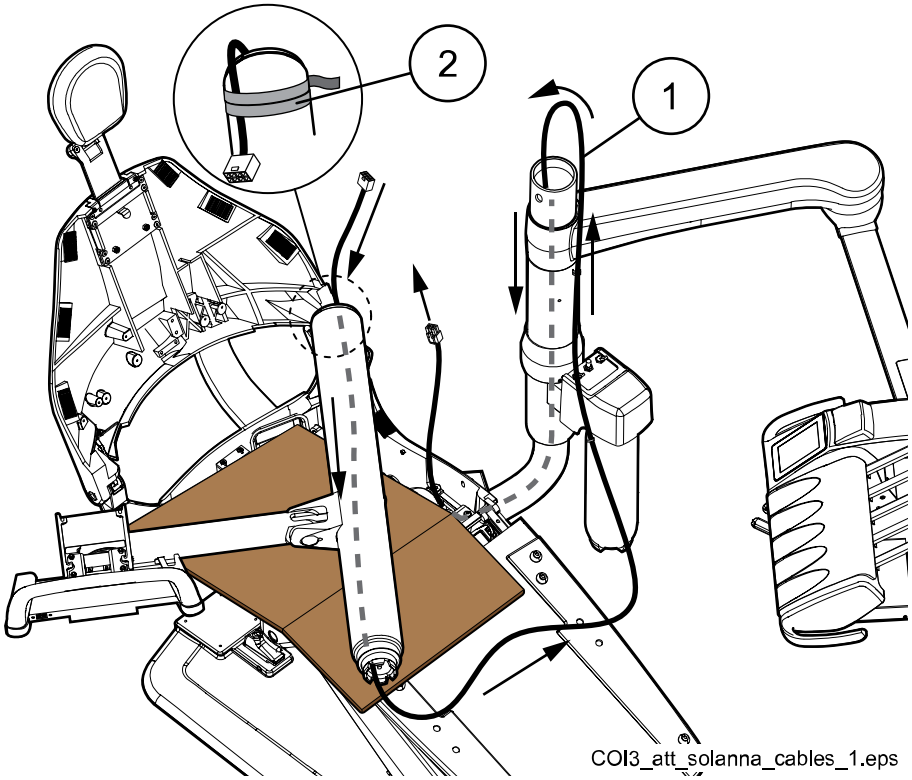
10. **Monitor:** Route the cable guide and the cables through the vertical post of the delivery arm to the seat.



11. **Operating light:** Route the operating light cable through the vertical arm and the vertical post of the delivery arm to the inside of the seat (1) and attach the cable end to the top of the vertical arm (2).

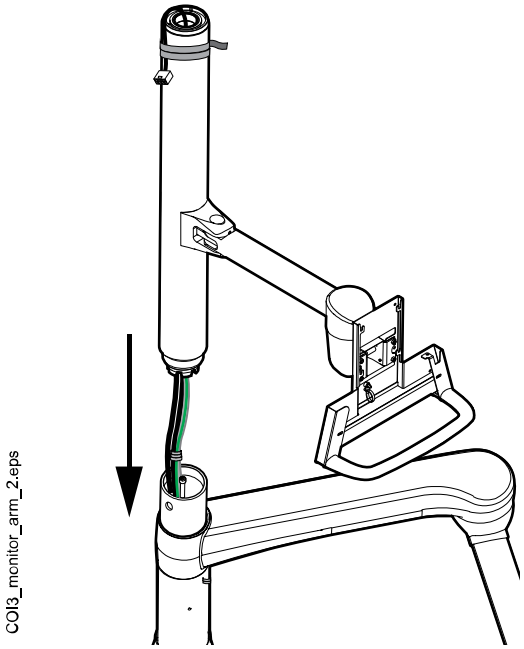
    NOTE

    The inside of the vertical post is divided into two. Route the cable through the side that is farther away from the horisontal delivery arm.

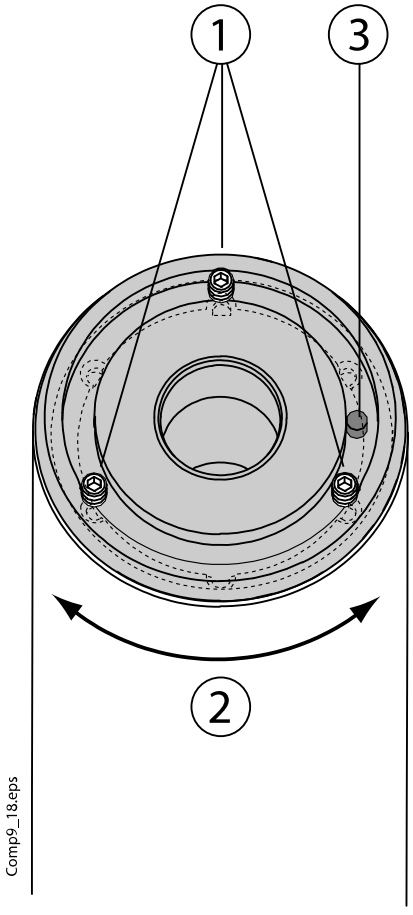


12. Attach the vertical arm to the adapter tube of the delivery arm.

    The monitor arm direction can be altered by rotating the vertical arm. The arm position can be adjusted at intervals of 60°. Lift the arm up and rotate it to the desired position.



Operating light: Note that also the rotation limiter pin of the operating light moves when the vertical arm is rotated. You can change the limiter pin position by first loosening the adapter ring attachment screws (1) and then rotating the ring (2) until the limiter pin (3) is in the correct position. Finally tighten the attachment screws.

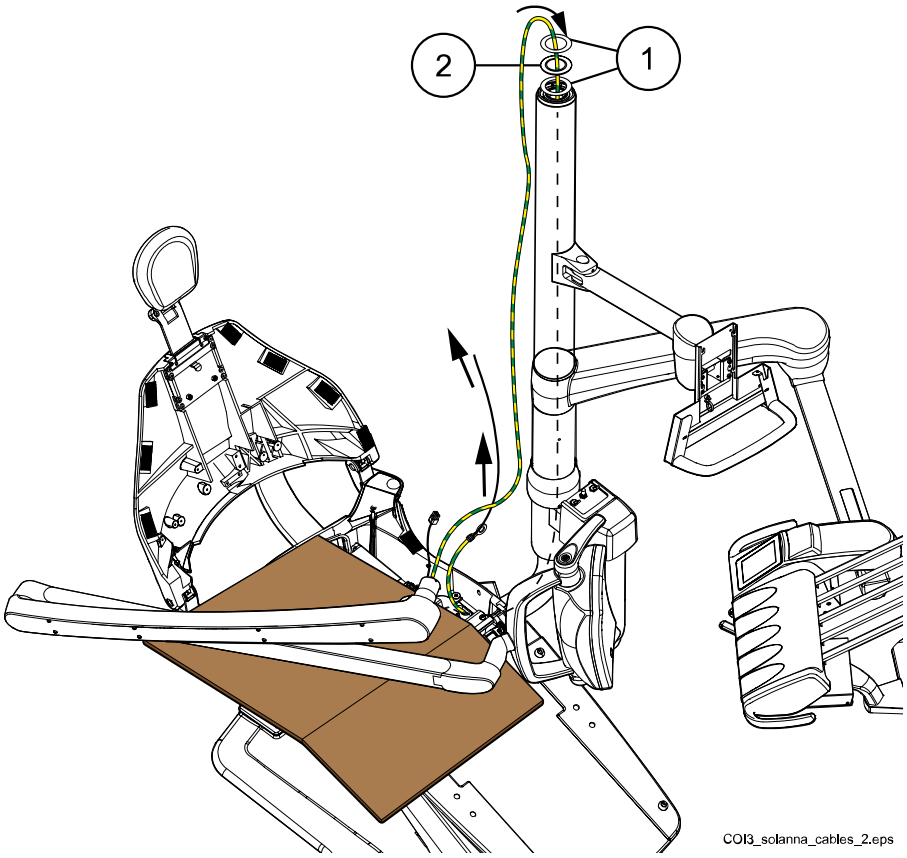


13. **Operating light:** Insert two sliding rings (1) and the bearing frame (2) to the top of the vertical arm. Route a cable guide from the inside of the seat through the vertical post of the delivery arm, the vertical arm and the rings. Attach the operating light ground cable to the cable guide.

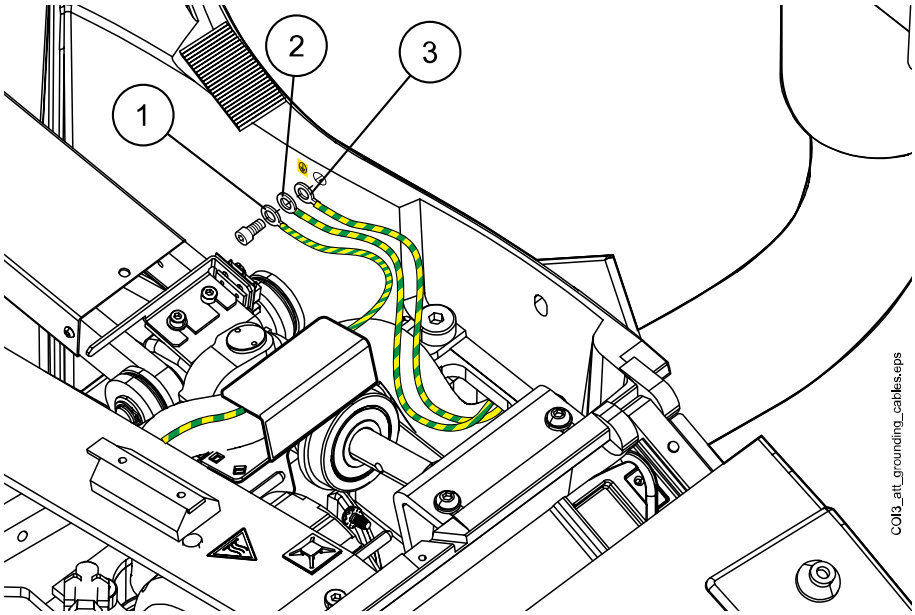
    NOTE

    The inside of the vertical post is divided into two. Route the cable guide through the side that is farther away from the horisontal delivery arm.

14. **Operating light:** Route the cable guide and the ground cable through the vertical arm and the vertical post of the delivery arm to the seat.

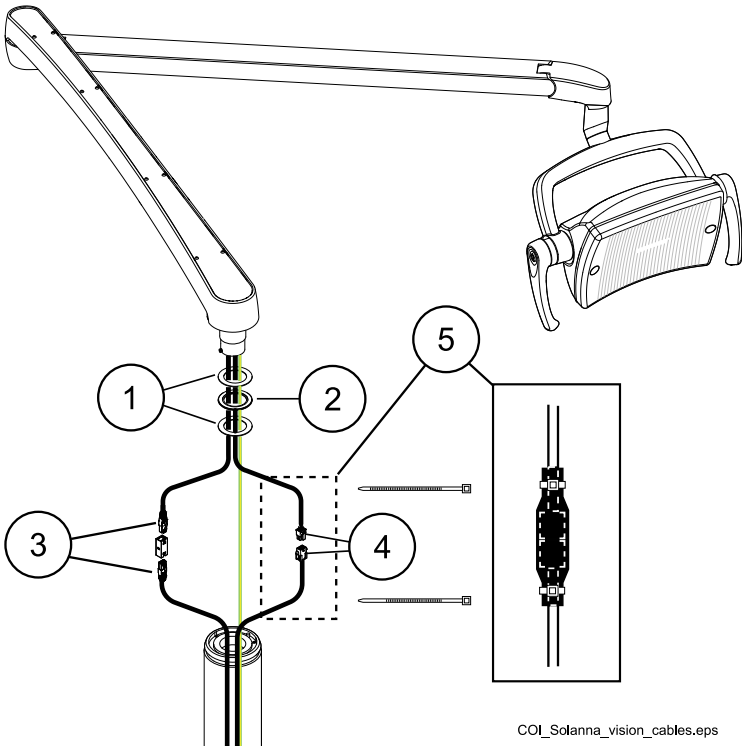


15. Attach the grounding cables to the grounding point inside of the seat.



1 OP delivery arm
2 Monitor
3 Operating light

16. Inside the seat, secure the cables coming from the vertical post of the delivery arm with two cable ties close to the position sensor.
17. **Operating light:** The sliding rings (1) and the bearing frame (2) must be located as shown below. **Planmeca Solanna Vision:** Connect the ethernet cables from the operating light and from the PC to the RJ45 coupler (**3**). Connect the cable from the operating light to the cable coming from the vertical arm (4), slide an insulator over the connectors and tighten both ends with cable ties. Then, mount the operating light to the vertical arm (5).

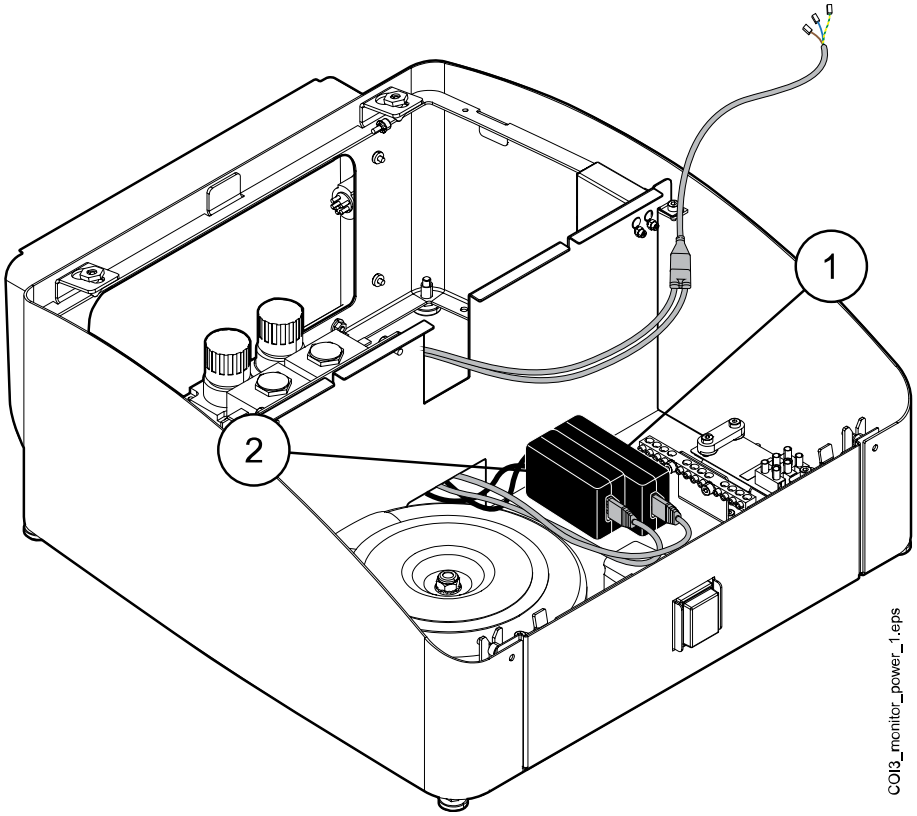


18. **Operating light:** Route the operating light cable from the seat along the lower cable duct in the lifting mechanism to the junction box. Connect the operating light cable to terminal P11 marked **Solanna** on the Main control PCB.

CAUTION

Take care when connecting the operating light cable. Connecting it incorrectly will not cause any damage because of an internal protection, but the light will not work.

19. **Monitor:** Connect the monitor power (1) and the Planmeca Emerald power (2).



20. **Monitor:** Route the monitor power cable from the junction box to the lifting mechanism and connect it to the power cable coming from the monitor.
21. **Monitor:** Route the monitor HDMI cable from the inside of the seat along the lower cable duct in the lifting mechanism to the junction box, and connect it to the outgoing HDMI cable.

10 Installing monitor

CAUTION

Do not connect items which are not specified as part of the system.

NOTE

The monitor is an optional feature.

NOTE

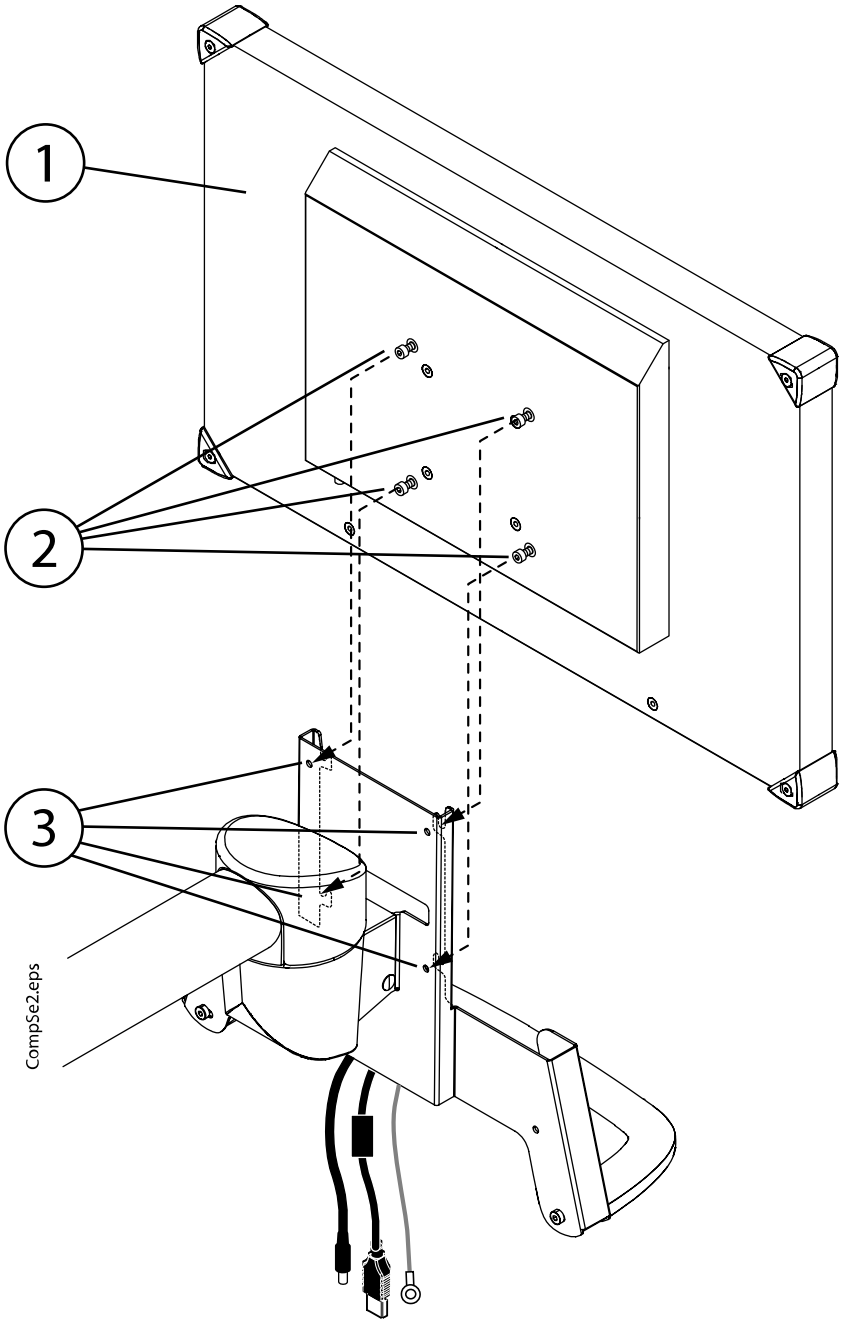
The PC connected to the monitor must be:

- IEC 60950 approved (CE marked)
- Located outside the patient area
- Protectively earthed

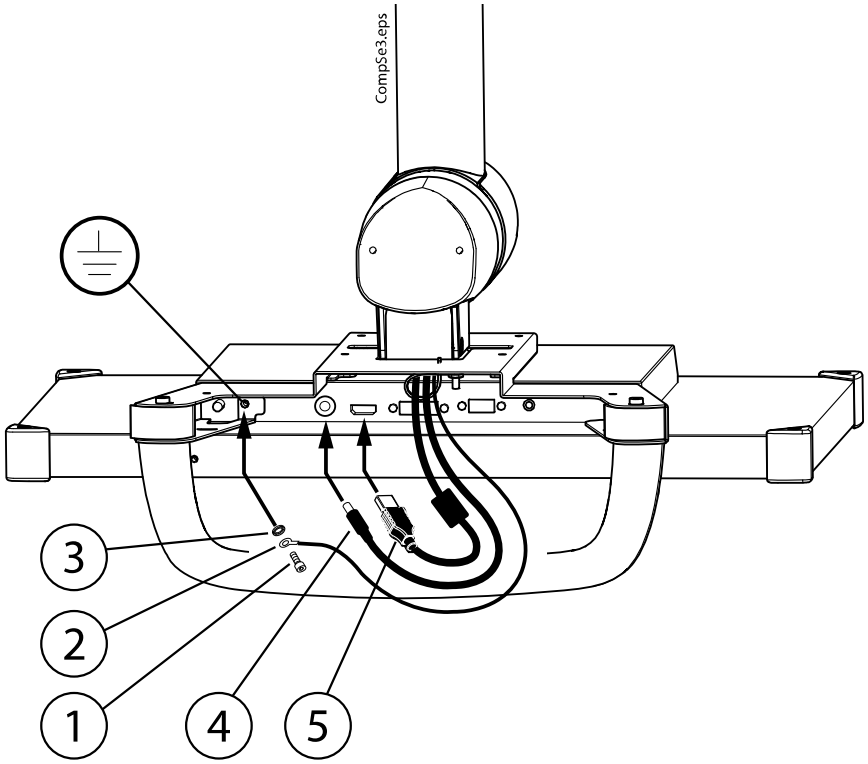
NOTE

Be careful not to scratch the screen.

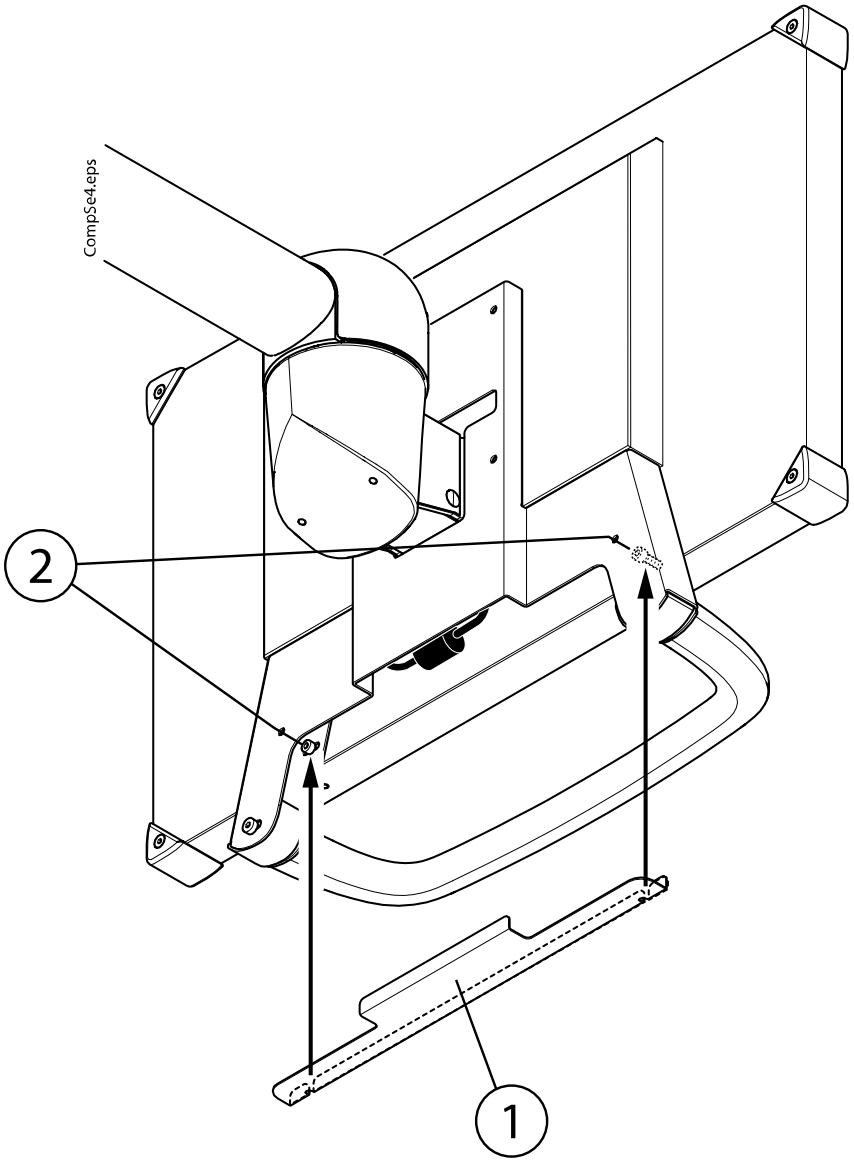
The monitor (**1**) is attached to the adapter with four attachment screws. Attach the monitor attachment screws (**2**) tentatively to the monitor using a 3 mm Allen key. Lift the monitor to its position and tighten the attachment screws (**3**).



Attach the grounding lead (**2**) to the monitor grounding point through the handle opening with a screw (**1**) and serrated washer (**3**) using a 3 mm Allen key. Connect the power cable to the monitor connector (**4**) Connect the HDMI cable to the monitor connector (**5**).



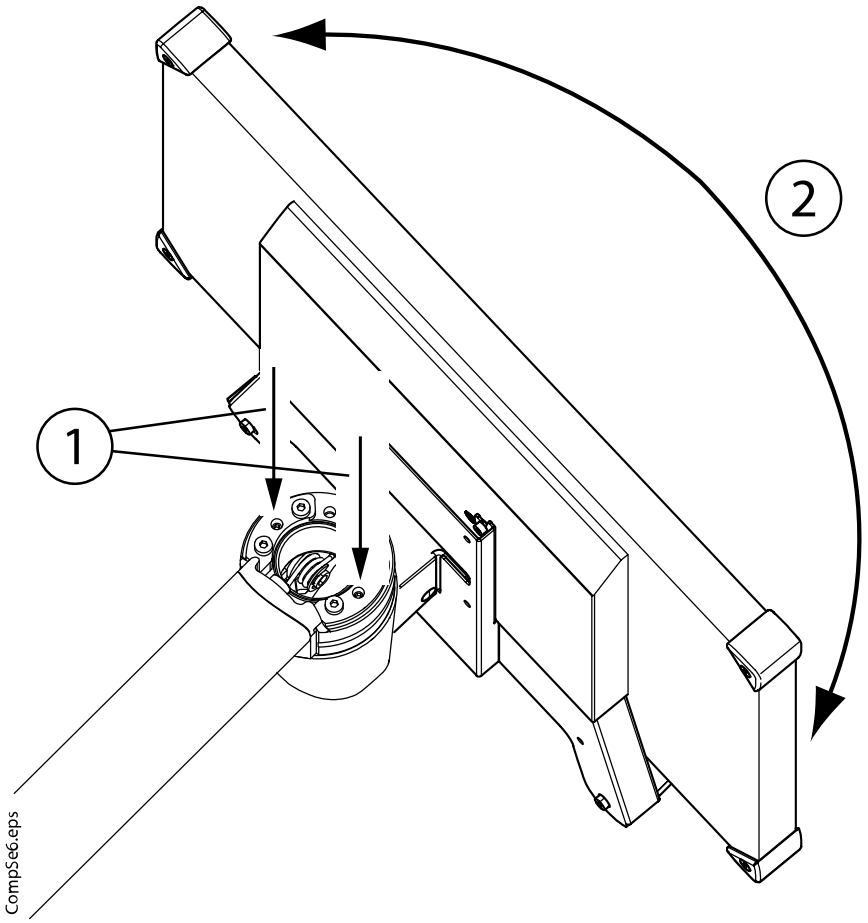
Push the cover plate (**1**) to its position and attach it with two attachment screws using a 3 mm Allen key (**2**).



10.1 Adjusting friction of monitor arm joint

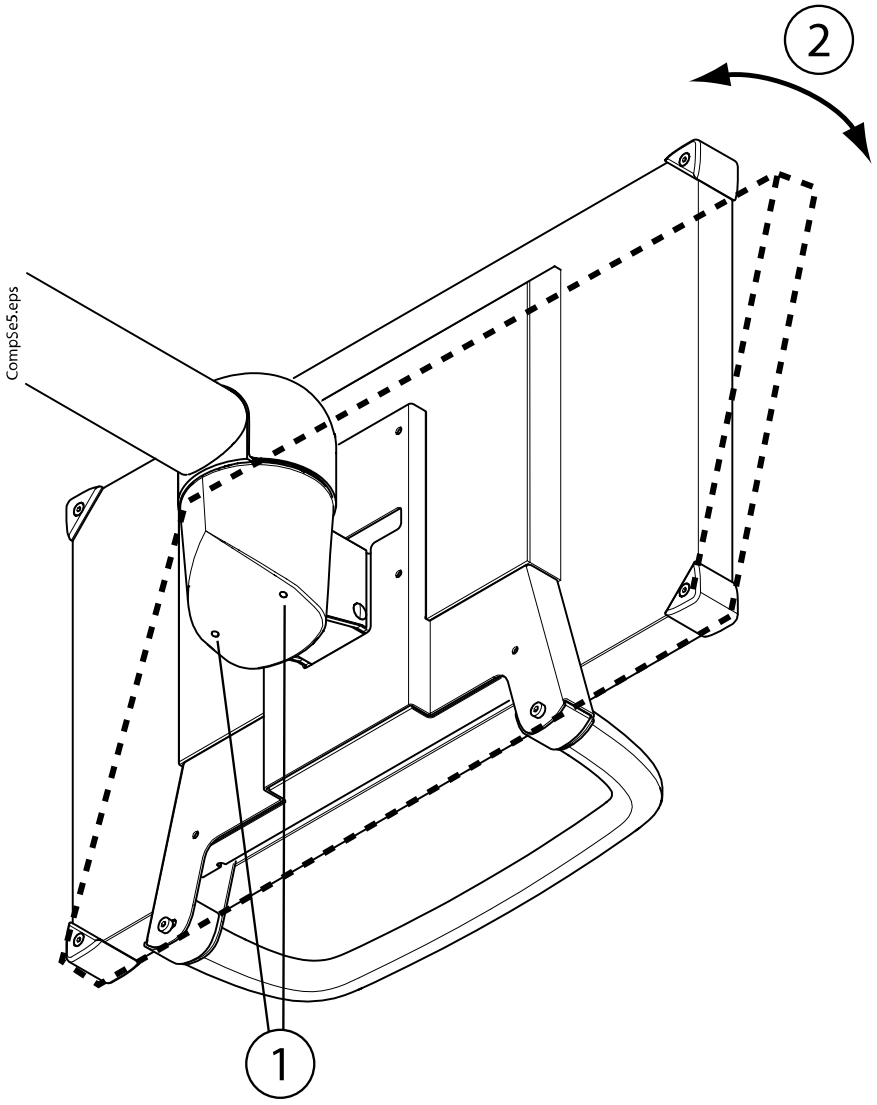
Rotational friction

If needed, you can adjust the rotational friction of the monitor arm joint as shown in the figure below. Adjust the friction of the joint with a 3 mm Allen key. Adjust the two screws equally (**1**). Loosening the screw increases the friction (**2**).



Friction of the monitor angle movement

If needed, you can adjust the friction of the monitor angle movement as shown in the figures below. Remove the upper cover of the monitor arm joint. Adjust the friction with a 2.5 mm Allen key. Adjust the two screws equally (**1**). Tightening the screw increases the friction (**2**).



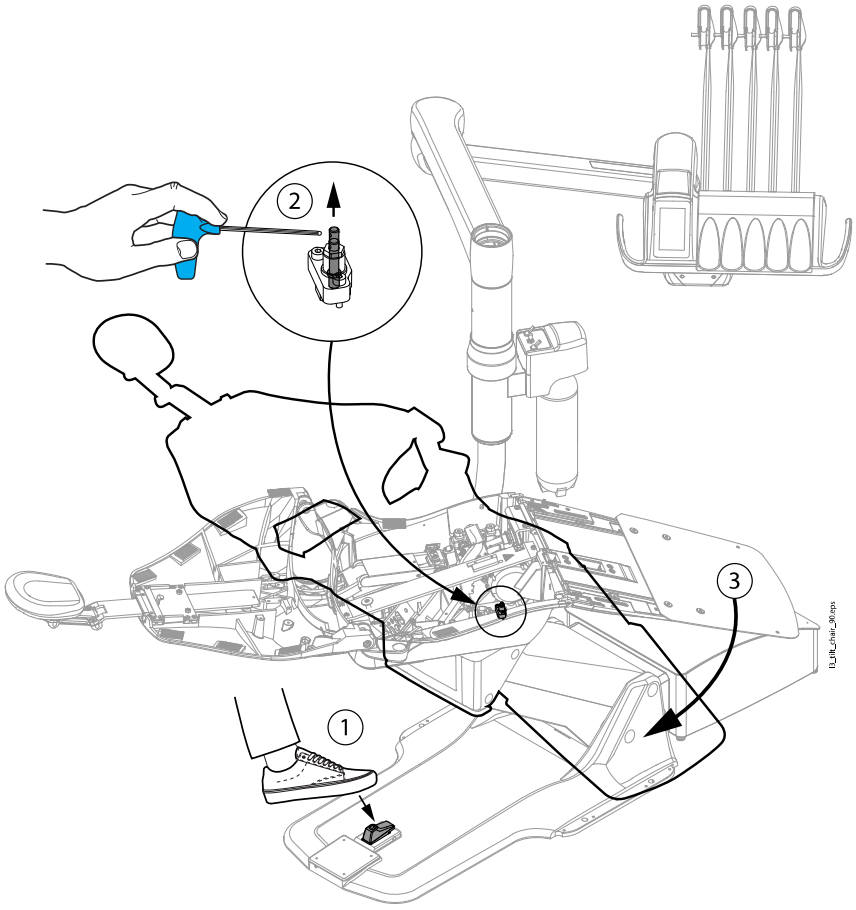
11 Chair swivel

About this task

In normal operation mode the seat can be swivelled up to 30° to the right or left in steps of 5°. In service mode the chair can be swivelled to 90° position.

Steps

1. Release the locking mechanism by pressing the foot switch located on the chair base and rotate the seat to 30° limit.
2. Lift the rotation limiter pin upwards with e.g. an Allen key.
3. Turn the seat to 90° limit.



4. To move the seat back to normal movement range lift the rotation limiter pin upwards and move the seat to 30° limit. Then release the locking mechanism by pressing the foot switch and move the seat to desired position.

12 Installing suction element

Before you begin

Swivel the chair to a 90° position so that the vertical arm is facing towards the junction box. For instructions, see section "Chair swivel" on page 59.

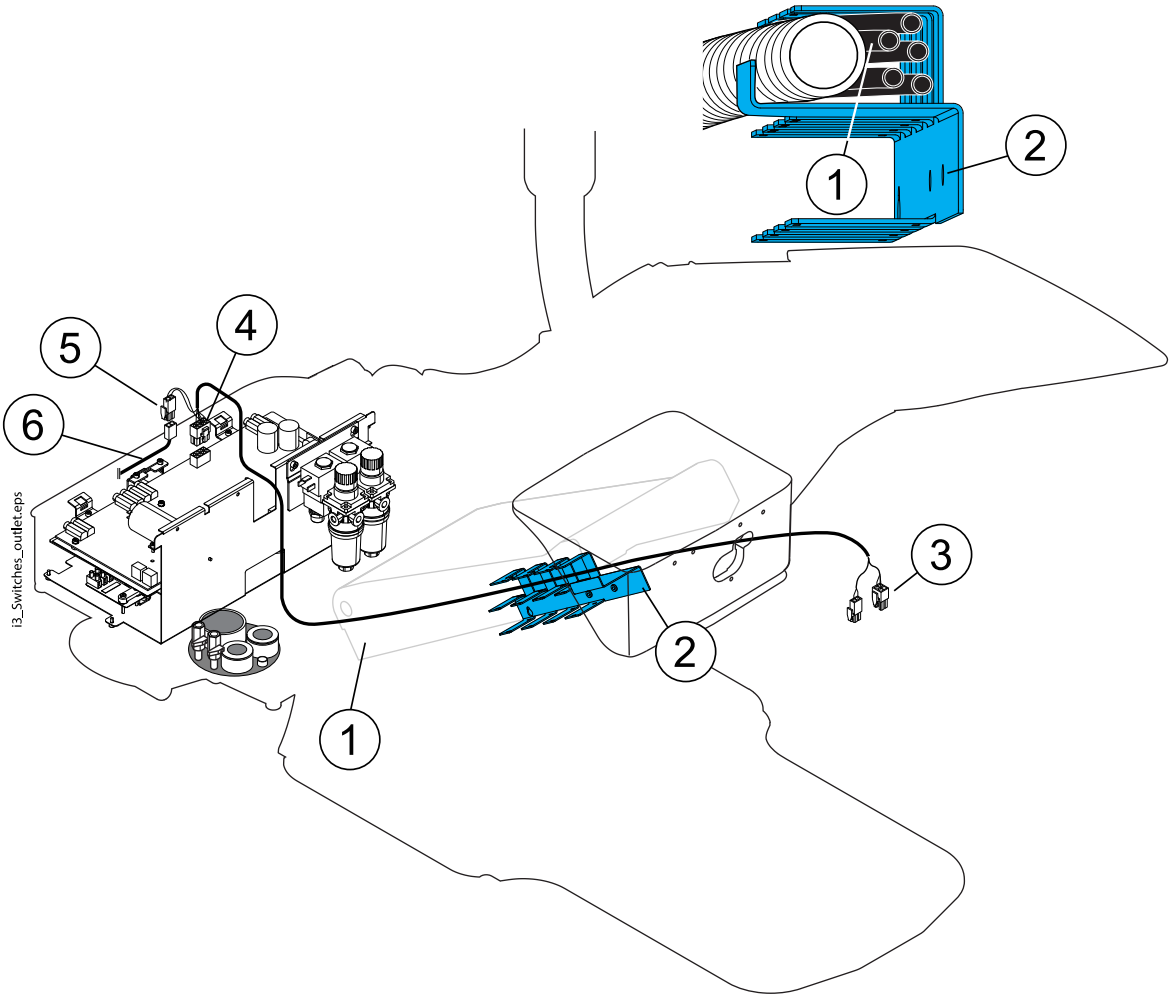
About this task

NOTE

The suction element is an optional feature.

Steps

1. Check that the suction arm and safety extension cable is installed to the lifting mechanism (1-6).



2. Install the Planmeca Emerald USB cables.

NOTE

The Planmeca Emerald intraoral scanner is an optional feature.

2.a. Route a cable guide through the lifting mechanism.

2.b. Attach the Planmeca Emerald active repeater and power cables (1 and 2) to the cable guide on the junction box side and route the

cable guide and cables through the lifting mechanism to the suction element.

In the lifting mechanism, the cables are placed on the upper cable duct (3).

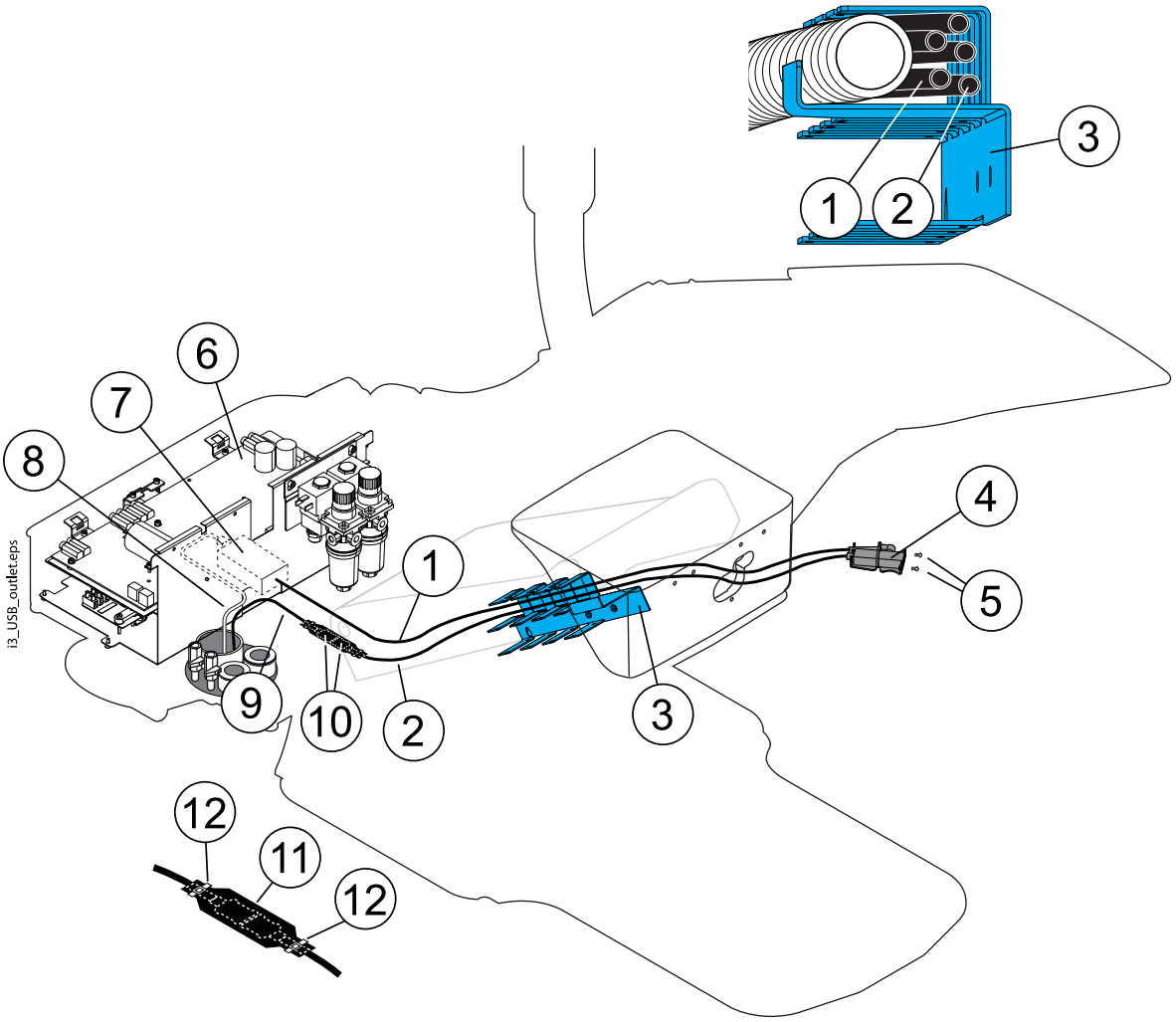
The suction element end of the cables (4) will later be attached to the USB opening in the suction element with two attachment screws (5), see step 5e.

2.c. Lift the Main control PCB up from its position (6) and place the Emerald power supply in the junction box (7).

2.d. Connect the Emerald power cable (1) to the power supply.

2.e. Connect (10) the USB cable coming from the PC (9) to the active repeater cable (2).

2.f. Shield the connection (11 and 12).



3. Install the suction tube.

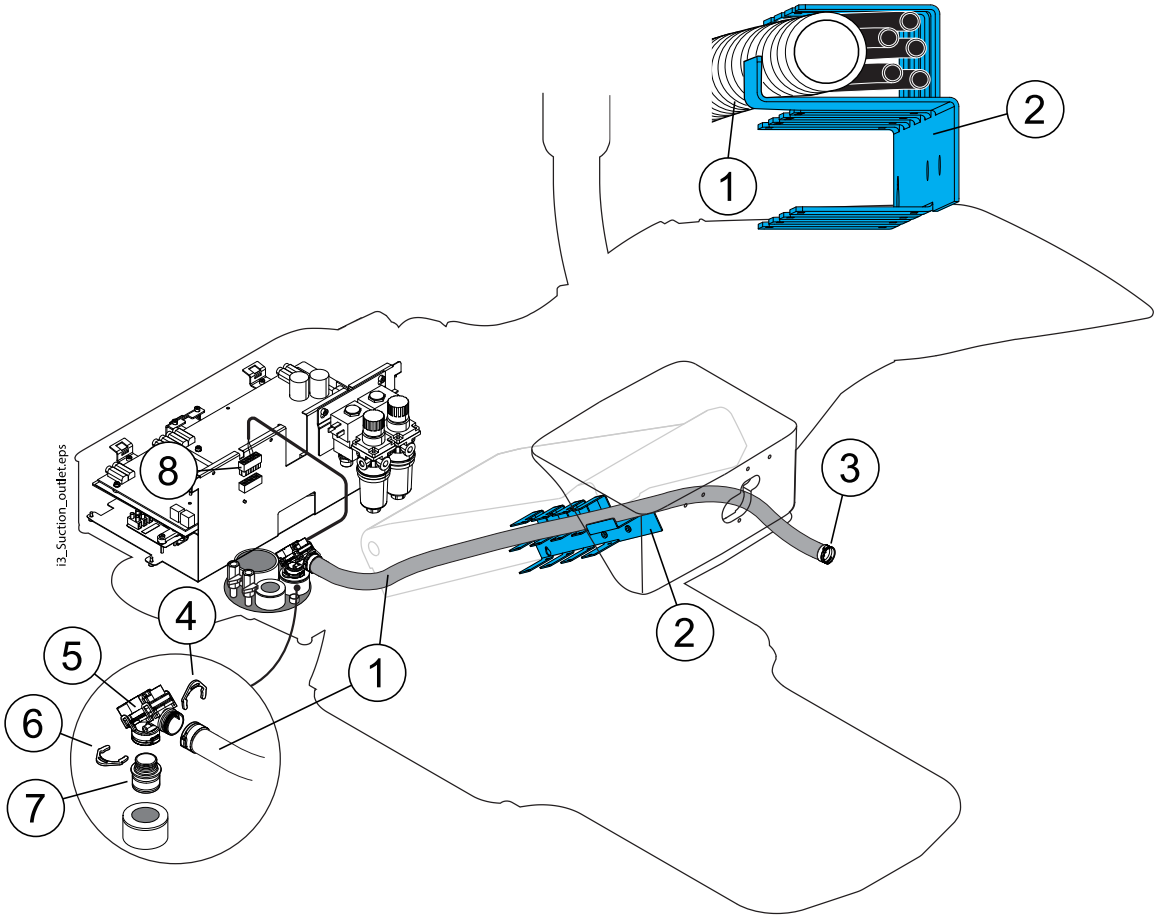
3.a. Attach a draw cord to the suction tube.

3.b. With the help of the draw cord, route the suction tube (1) through the lifting mechanism from the opening for the suction element to the junction box.

In the lifting mechanism, the suction tube is placed on the upper cable duct (2).

3.c. Attach the Dürr contact to the suction element end of the suction tube (3).

3.d. Attach the suction valve to the suction tube (5) and attach the suction tube to the corresponding tube coming from the floor (7). Secure the tubes into place with securing rings (4 and 6).



4. Install the assistant's syringe.

NOTE

The assistant's syringe is an optional feature.

4.a. Route the assistant syringe cable (1) and the assistant syringe water and air tubes (2) from the opening for the suction element through the lifting mechanism to the junction box.

In the lifting mechanism, the suction tube is placed on the upper cable duct (2).

The assistant syringe quick-connector (4) will later be attached to the suction element with two attachment screws (5), see step 5d.

4.b. Connect the assistant syringe cable to the Main control PCB (6).

4.c. Connect the assistant syringe air tube (2) to the air filter/regulator.

4.d. Connect the assistant syringe water tube (2) to the assistant syringe valve.

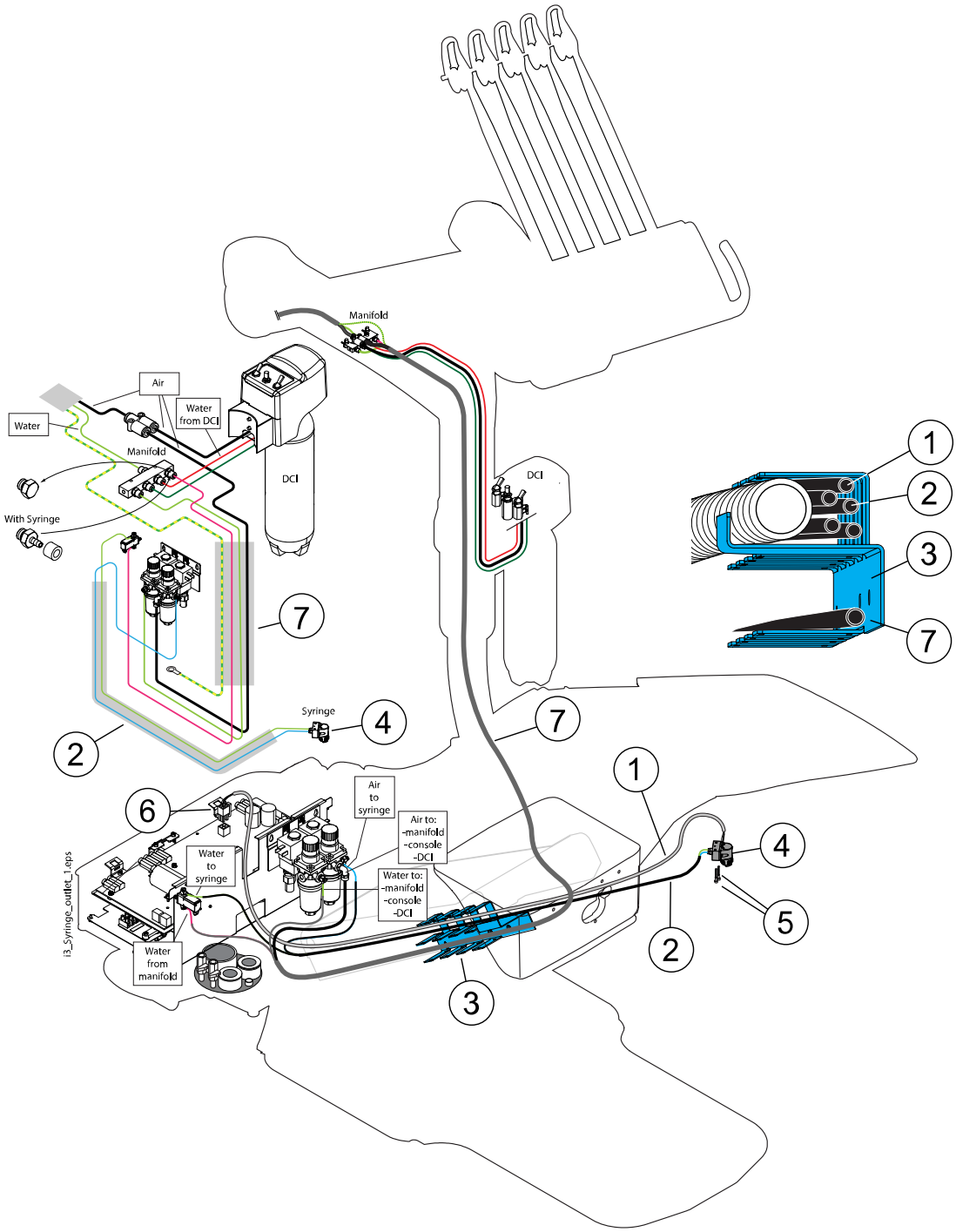
4.e. Connect the assistant syringe water tube to the manifold.

Remove the plug and replace it with the manifold nipple. Attach the assistant syringe water tube and manifold bush to the nipple. Secure the tube into place with the bush.

4.f. Connect the assistant syringe water tube that comes from the manifold (7) to the assistant syringe valve.

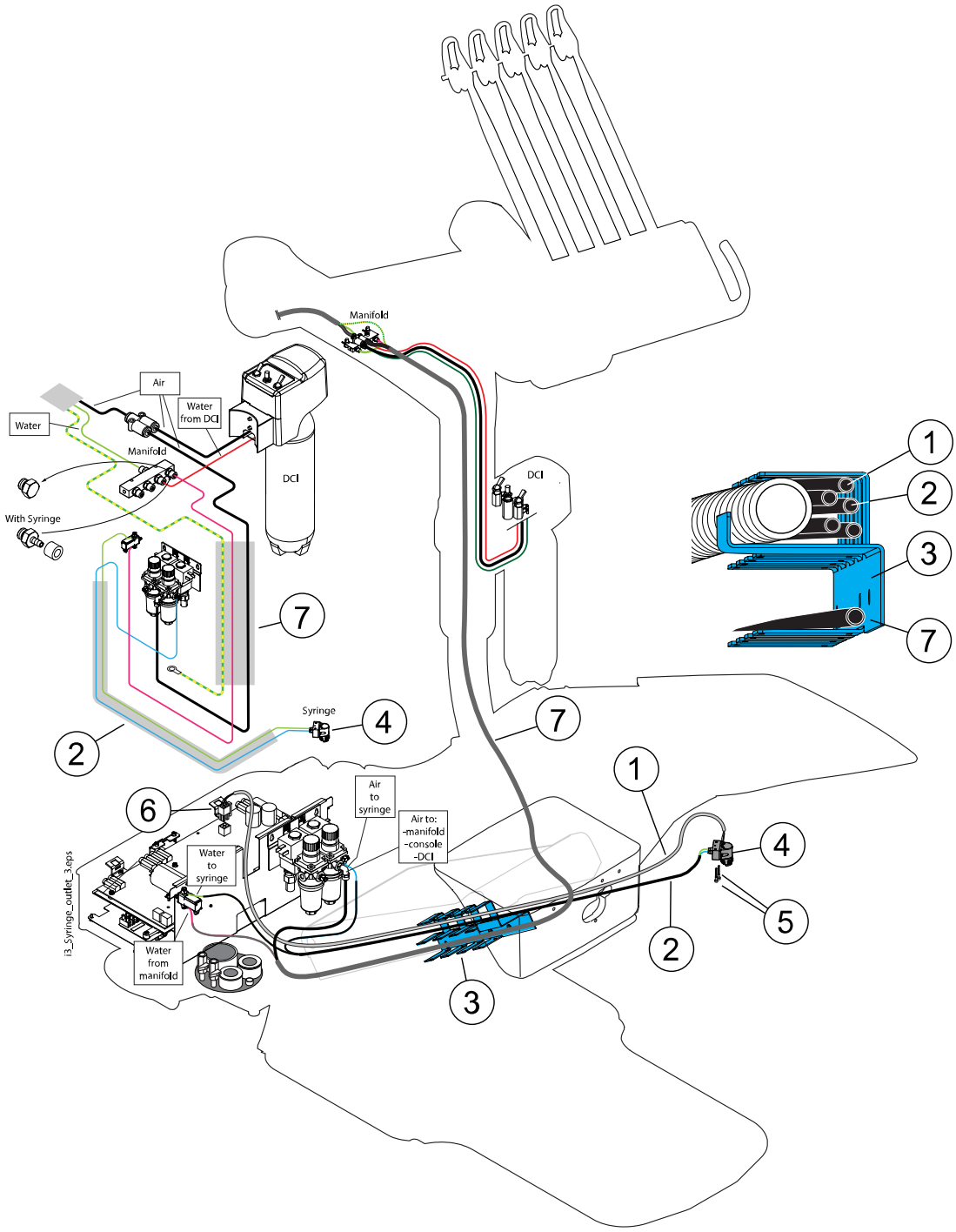
4.g. Connect the water tube that goes to the manifold, instrument console and clean-water bottle (DCI) (7) to the water filter/regulator.

4.h. Connect the air tube that goes to the manifold, instrument console and clean-water bottle (DCI) (7) to the air filter/regulator.

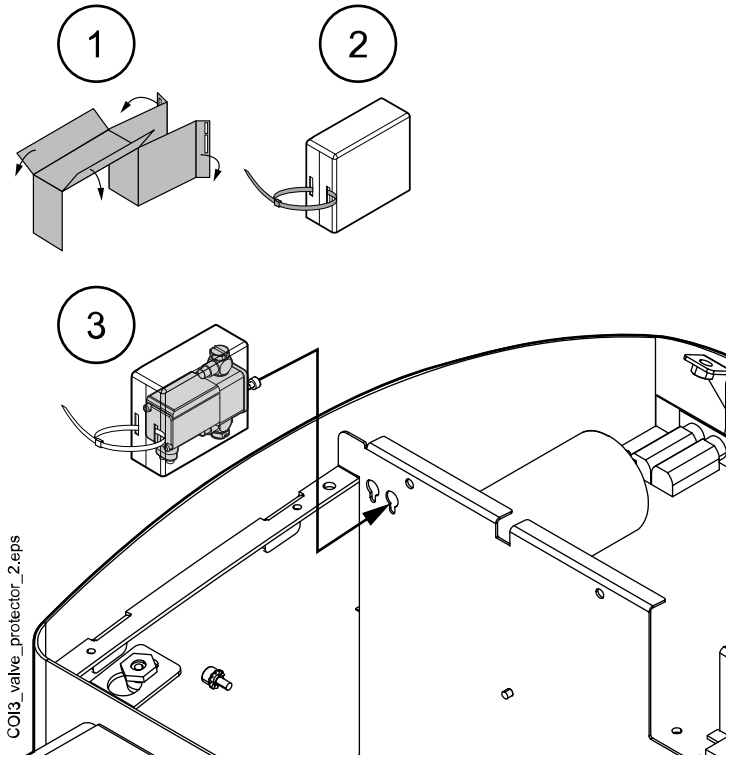

Manifold
Air
Water
Water from DCI
Manifold
With Syringe
DCI
DCI
Syringe
Air to syringe
Air to: -manifold -console -DCI
Water to syringe
Water to: -manifold -console -DCI
Water from manifold
i3_Syringe_outlet_1.eps
1
2
3
4
5
6
7

NOTE

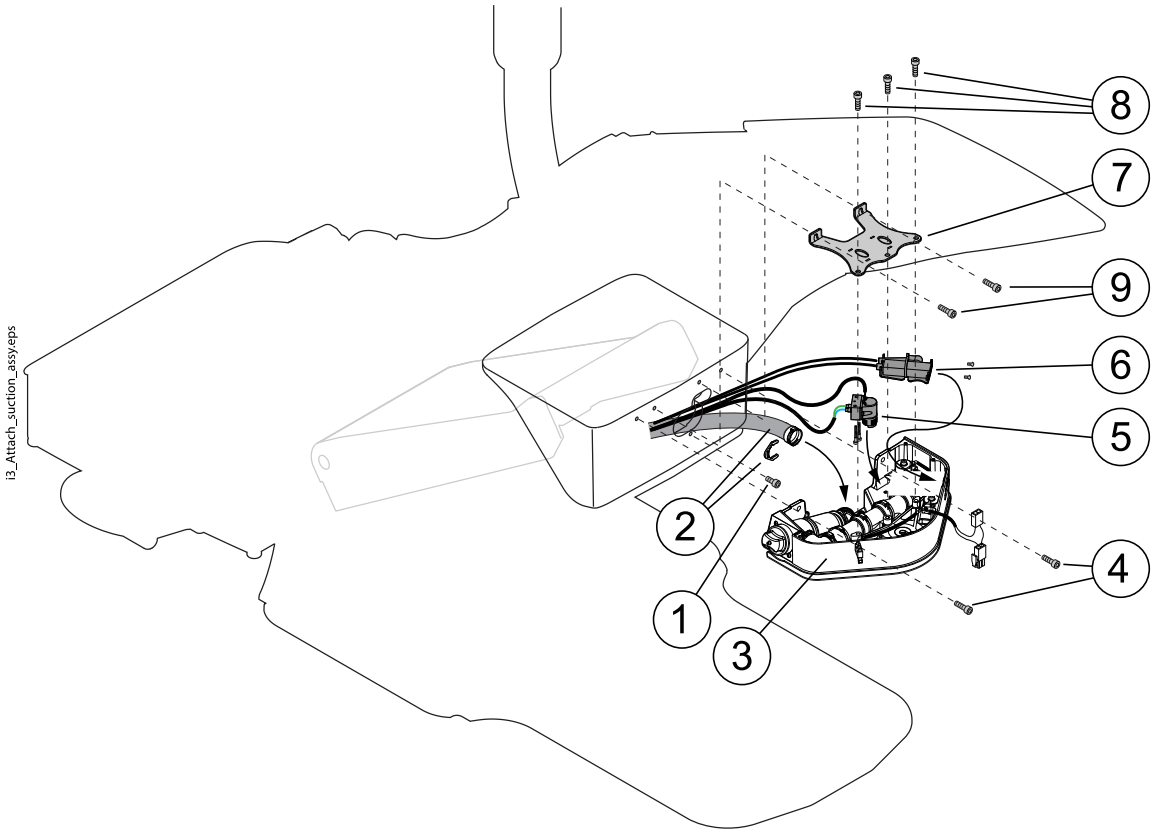
Dental units without city water: Connect the tubes according to the figure below.



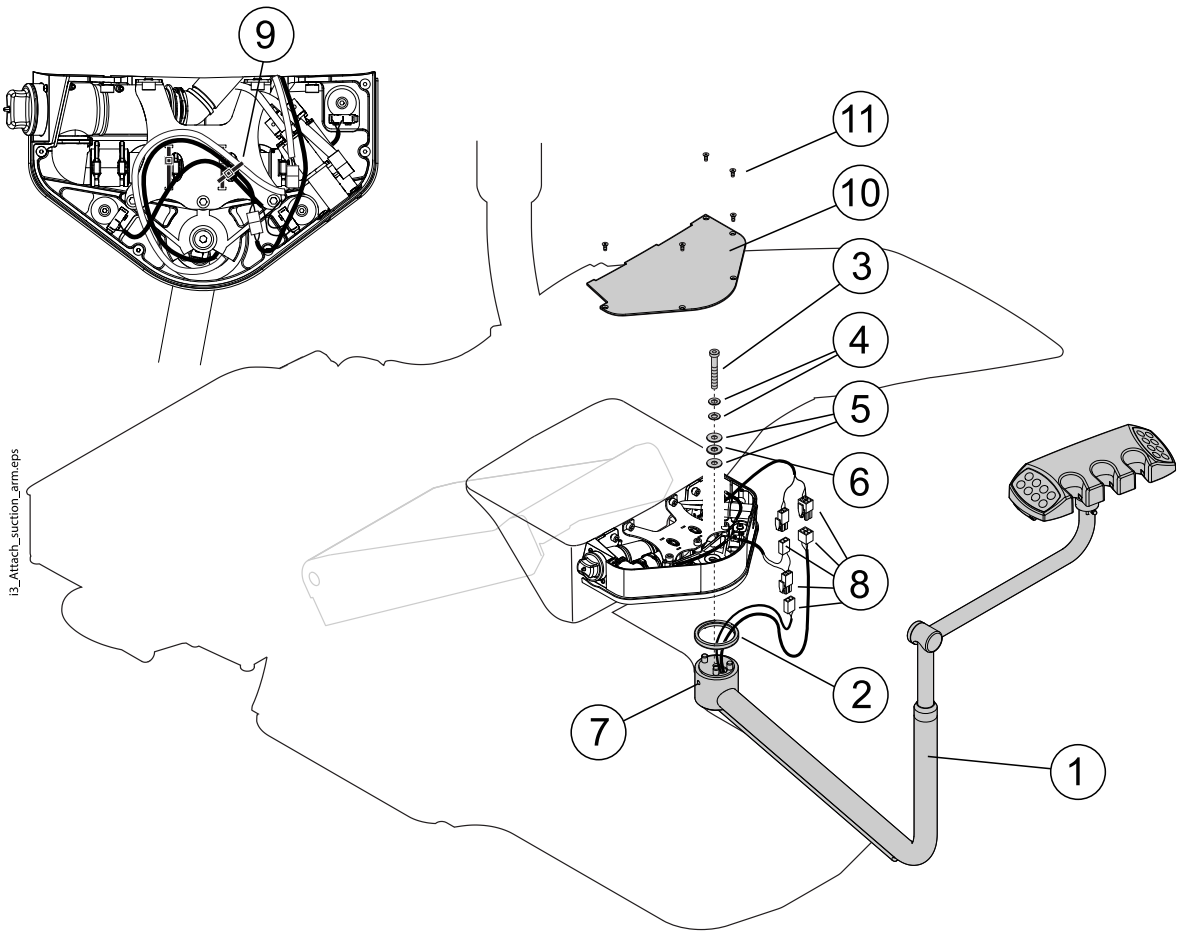
5. Cover the assistant syringe valve with a splash protector.



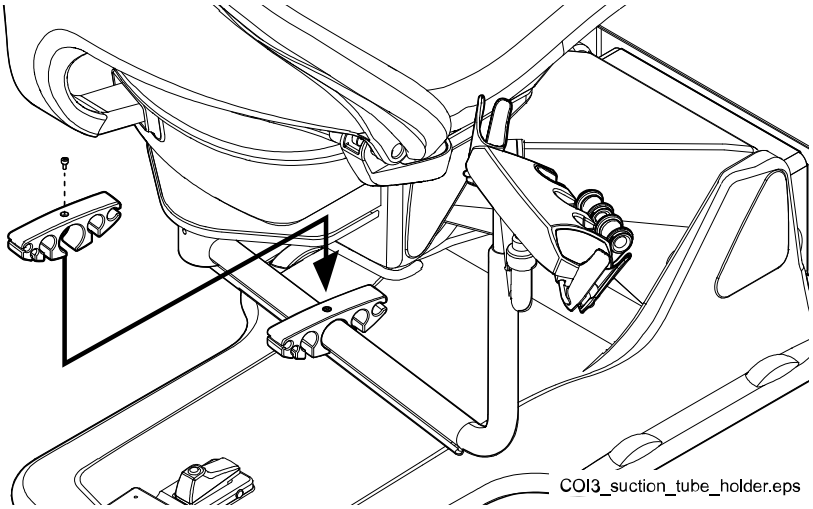
6. Install the suction element.
   6.a. Attach the suction element attachment screw M6x20 DIN912 (1) to the seat base using a 5 mm Allen key. Do not tighten the screw.
   6.b. Attach the suction tube to the suction element assembly and secure it into place with a securing ring (2).
   6.c. Lift the suction element (3) to its position so that it is attached to the seat base with screw M6x20 DIN912. Tighten the screw.
   6.d. Attach the suction element to the seat base with two M6x20 DIN912 screws (4) using a 5 mm Allen key.
   6.e. Bring the assistant syringe quick-connector into position and attach it with two M3x6 DIN 912 screws using a 2.5 mm Allen key (5).
   6.f. Secure the Planmeca Emerald active repeater to the repeater holder with a cable tie. Attach it to the USB opening with two attachment screws (6).
   6.g. Attach the suction arm to its position (see step 6) before attaching the support plate (7) with five M6x20 DIN912 screws (8 and 9) using a 5 mm Allen key.



7. Install the suction arm.
   - 7.a. Bring the suction arm (1) to the suction element and place the slide bearing (2) between the suction arm and the suction element.
   - 7.b. Route the suction arm cables through the opening in the suction element.
   - 7.c. Attach the suction arm from inside the suction element with one M8x55 DIN7984 screw (3) (using an 8 mm Allen key), two washers (4), two bearing plates (5) and one bearing (6).
   - 7.d. Attach the suction arm with one M6x8 DIN916 screw using a 5 mm Allen key (7).
   - 7.e. Connect the suction arm cables (8).
   - 7.f. Attach the support plate as described in step 5f.
   - 7.g. Secure the suction connectors to the support plate with cable ties.
   - 7.h. Secure the cables coming from the suction arm with a cable tie (9). Make sure that the safety plate can move freely.
   - 7.i. Attach the suction element cover (10) with four M4x10 DIN7991 screws using a 3 mm Allen key (11).



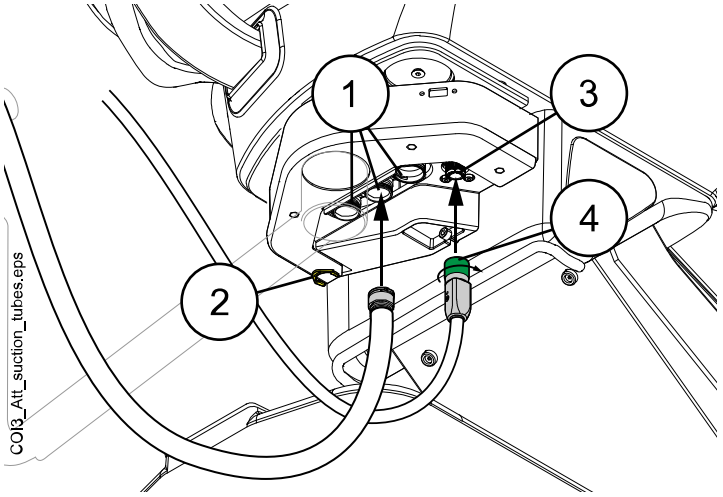
8. Attach the tube holder to the suction arm with a DIN912 M4x8 screw.



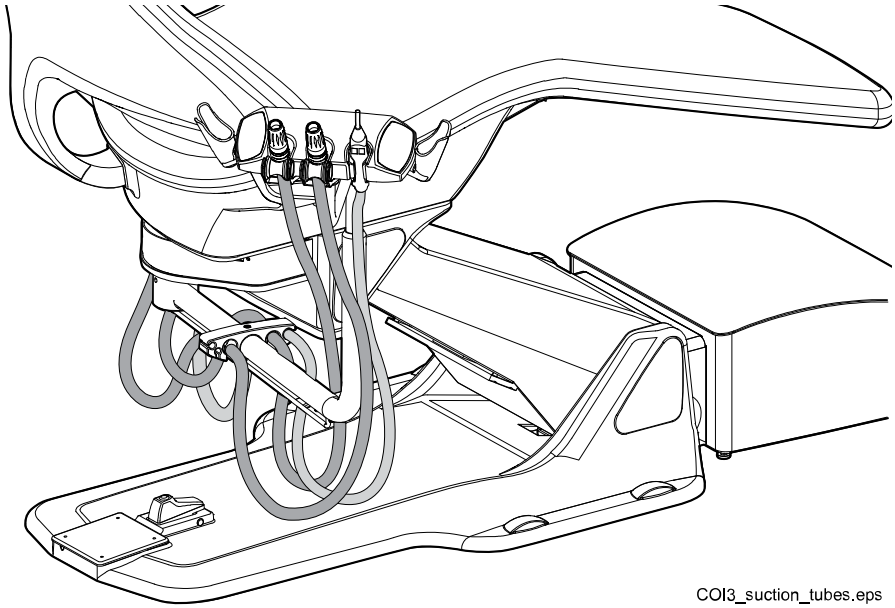
13 Attaching suction tubes and assistant's syringe

Steps

1. Attach the suction tube to the suction tube connector on the underside of the suction element (1).
2. Secure it into position with the securing ring (2).
3. Attach the assistant's syringe (4) to the quick-connector on the underside of the suction element (3).



4. Attach the suction tubes and the tube for the assistant's syringe to the holder on the suction arm.



14 Attaching chair upholsteries

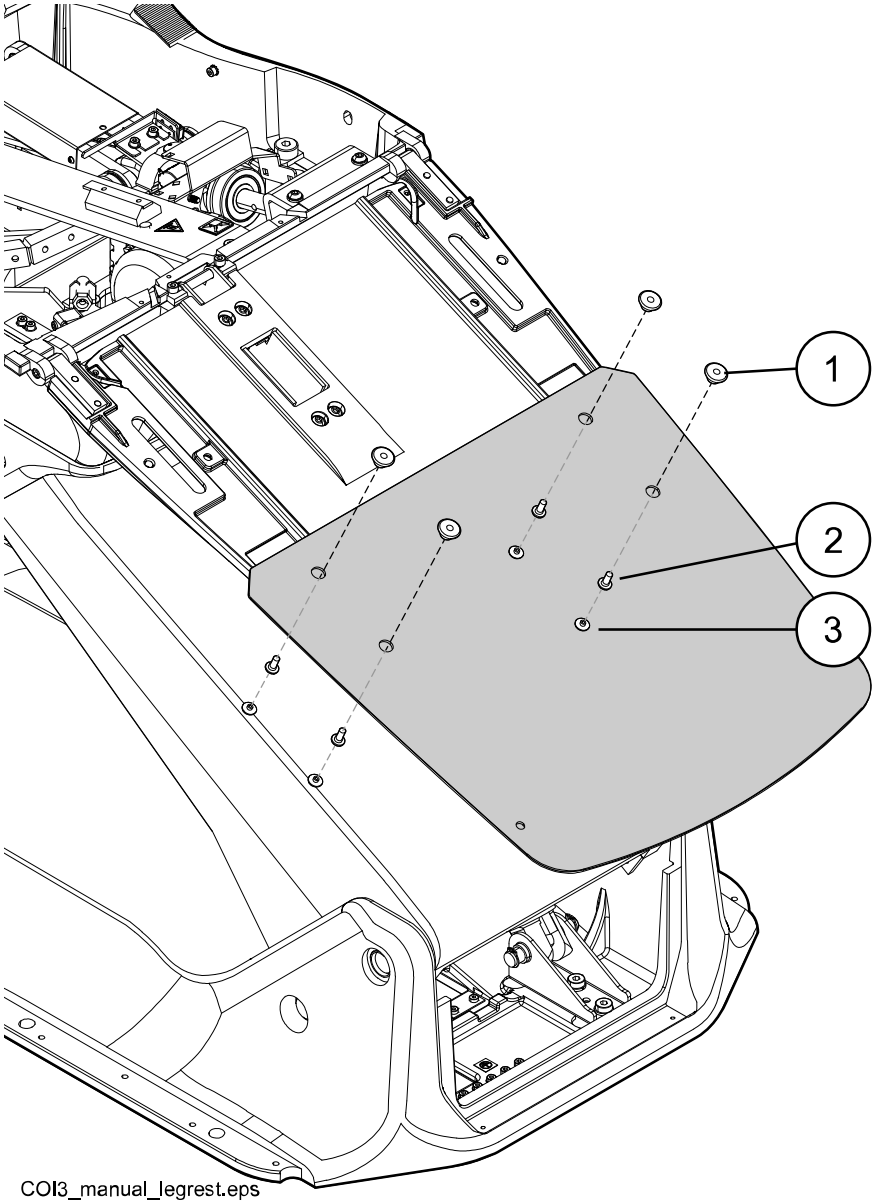
NOTE

The pictures in this section are taken from other Planmeca Compact i dental unit model, but the instructions apply also to Planmeca Compact i3.

14.1 Attaching upholstery support plate

Steps

1. Attach the upholstery support plate to the legrest with four sets of sliding part (1), screw ISO7380-1 M6x12 (2) and protective cap (3).



14.2 Attaching seat upholstery

About this task

NOTE

Screws must be used to secure the seat upholstery.

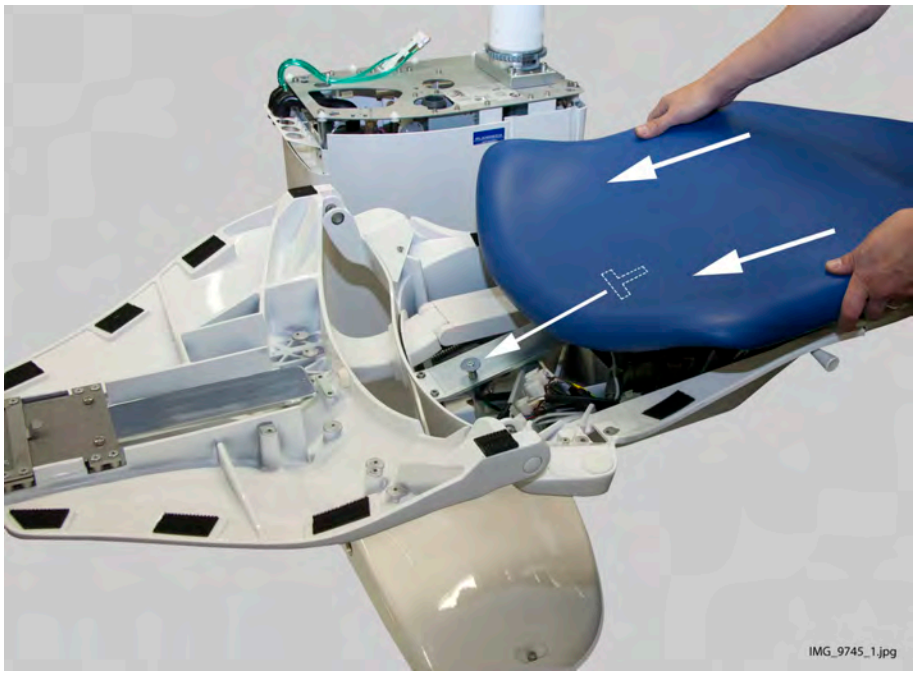
Steps

1. Slide the attachment plates to their positions at the seat upholstery backplate, **short end first**.

2. Slide the seat upholstery towards the backrest casting in a way that the attachment screw goes into the groove of the upholstery's backplate.

NOTE

You can bend the seat upholstery carefully from its sides to make the attachment easier. If the attachment screw does not go into the groove, the screw can be slightly opened by turning it clockwise. Make sure that you have slid the upholstery as far as it goes.

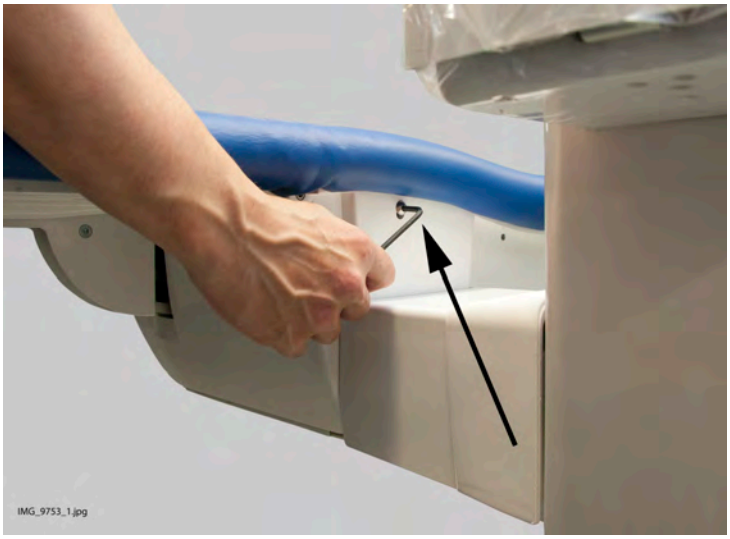


3. Tighten the attachment screw by turning it counterclockwise.

4. Place the installation plate (white arrow) and the upholstery screw hole cover plate (black arrow) to the seat hole as shown in the figure below.

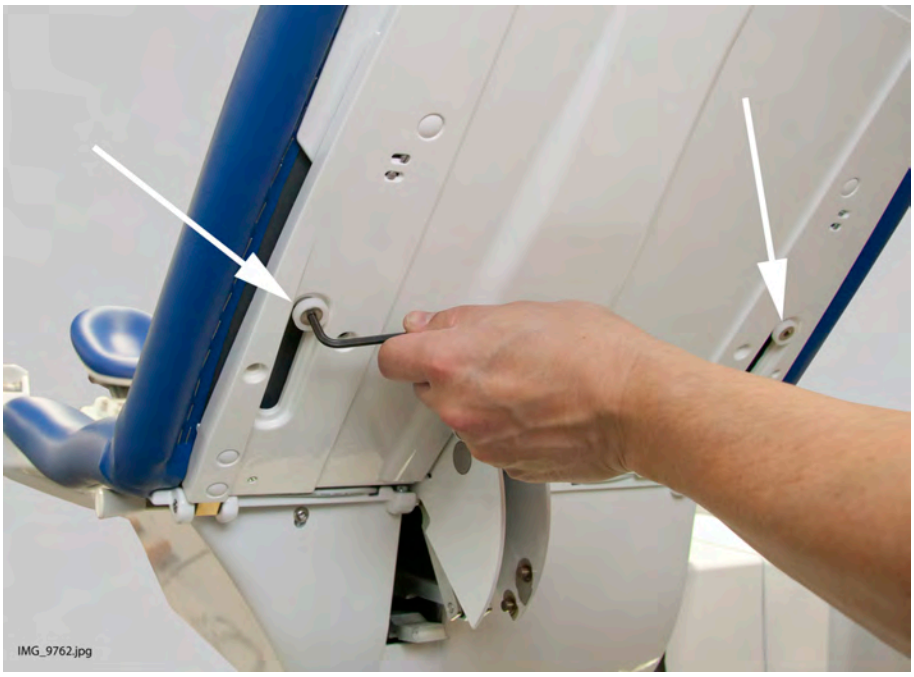
5. Attach the cover plate to its position with an attachment screw using a 2 mm Allen key.

6. Secure the seat upholstery attachment plates in position with two screws.



7. Attach the upholstery to the upholstery support plate. Cover the screw-heads with the cover caps.

8. Attach the upholstery to the legrest with two sliding parts and screws.

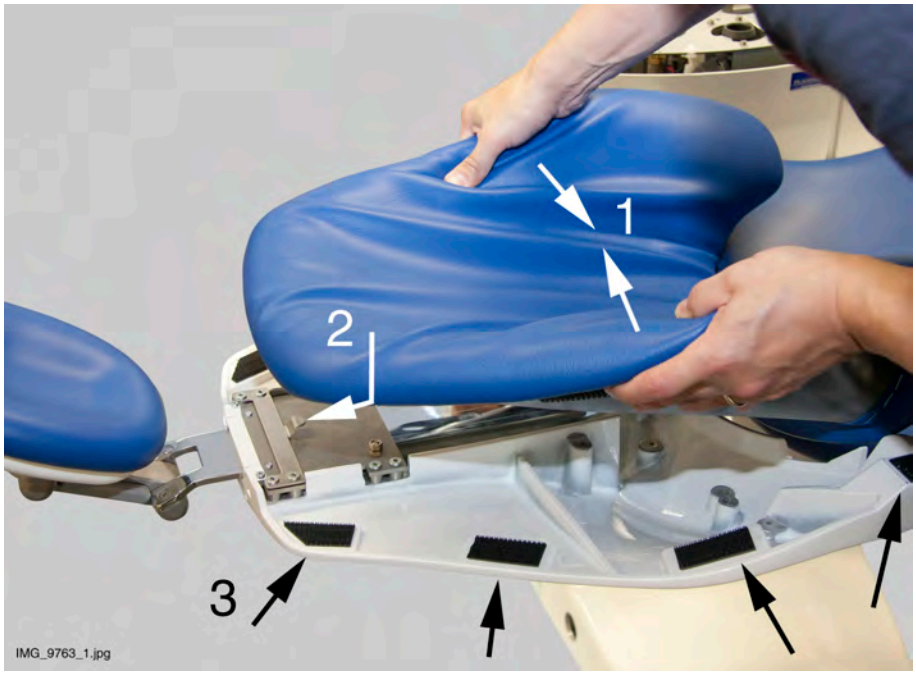


14.3 Attaching backrest upholstery

Steps

1. Bend the upper part of the backrest upholstery firmly from its sides (**1**) and slide the backrest upholstery upwards so the attachment hook goes

into the groove of the upholstery's backplate (**2**). Press the upholstery against the velcro tape counterparts (**3**).



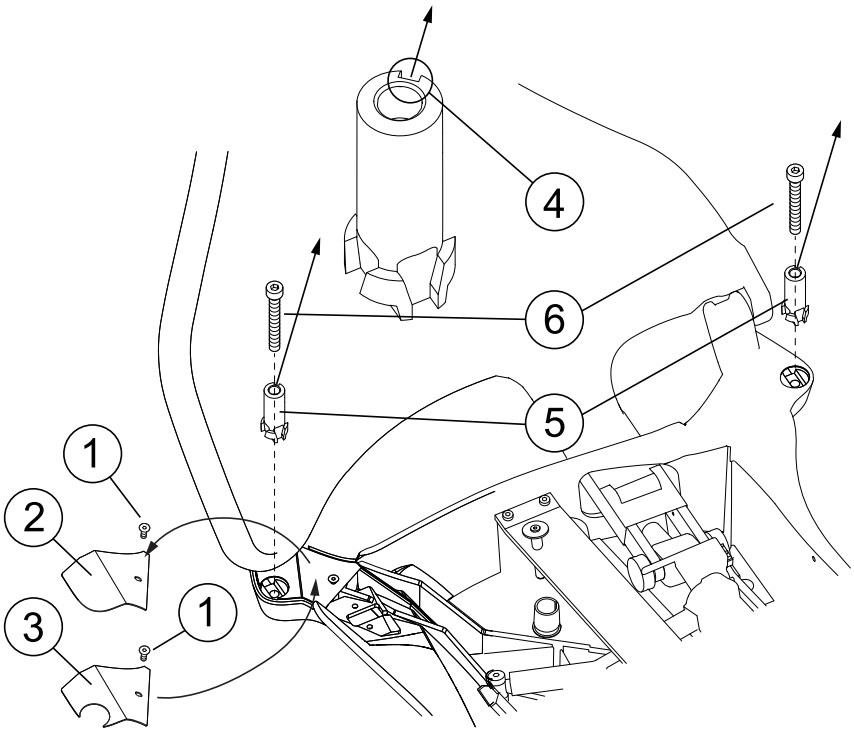
2. Firmly press the upholstery outer edges.

14.4 Attaching armrests

Steps

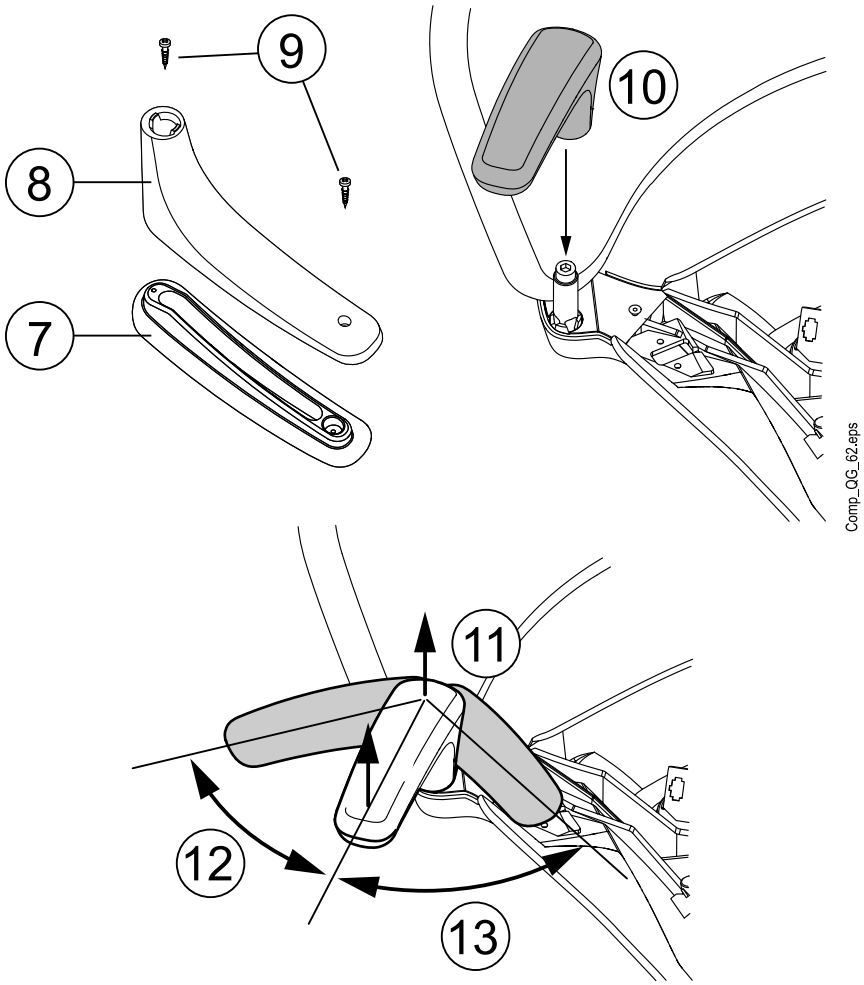
1. Unscrew the armrest plate attachment screw (1) and remove the plate (2). Attach the armrest plate with an opening (3) to the seat. Place the armrest attachment pin to the opening on the seat in a position shown in

the figure below (4). Attach the pin (5) to the seat with an attachment screw (6). Tighten the attachment screw with 45 Nm force.



2. Attach the armrest upholstery (7) to the armrest casting (8) with two 2x50 torx screws (9) using TX 25 key. Grease the armrest inner surfaces with non-toxic vaseline before attaching it to the adapter. Push the armrest to

the adapter at a 45° angle (12, 13) to the seat and then rotate it to the correct direction.



14.5 Attaching headrest

Steps

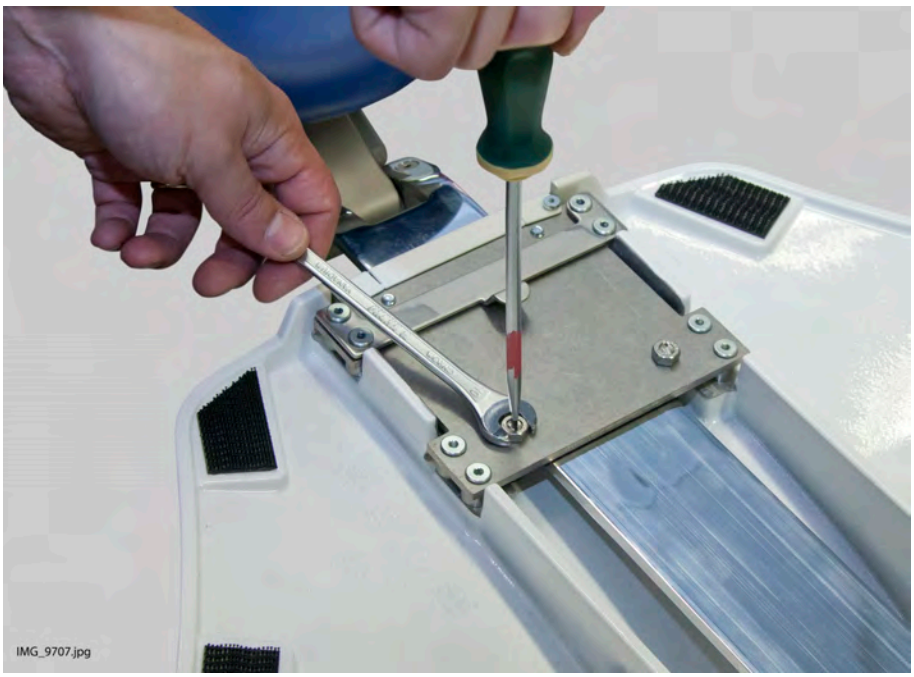
1. Remove the transportation plate from the backrest opening.

2. Place the headrest upholstery on the headrest casting. Secure it into position by tightening the screw on the back of the headrest casting.

3. Slide the headrest arm inside the backrest.

   The headrest sliding friction is adjusted at the factory. If you want to change the friction, it can be done as follows.

   1. Loosen the two holding nuts using the 10 mm fork spanner.
   2. Adjust the sliding friction by turning the attachment screws using a screwdriver. Turning the screw counter-clockwise increases the friction.
   3. Lock the screw into position with the holding nut.

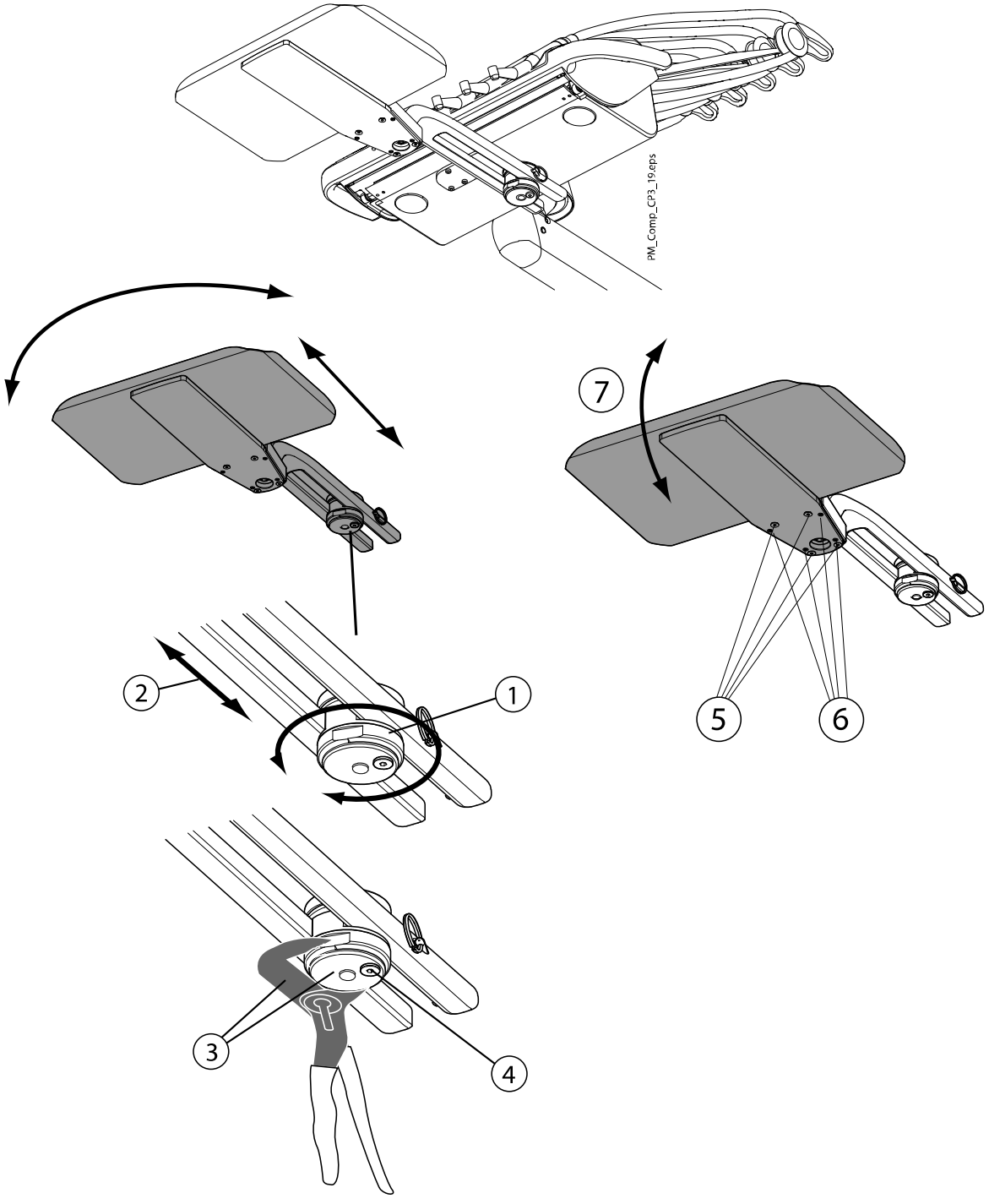


15 Attaching tray table assembly to OP delivery arm balanced arm instrument console

The mounting arm is attached to the instrument console by pushing it to its position.

The friction of the tray arm movements can be adjusted. Loosen the joint attachment screw using a 3 mm Allen key (**1**). Rotate the plate manually and move the tray arm (**2**). Hold the plate in position with pliers (**3**) and tighten the attachment screw (**4**).

The angle of the tray table can be adjusted as follows. Loosen the securing screws (**5**) and adjust the angle (**7**) with four adjustment screws (**6**). Tighten the securing screws.



16 Installing instruments

The positions of the instruments are completely user dependent. The only instrument, which has fixed position is the syringe. The syringe must be positioned next to the control panel i.e. to the leftmost position.

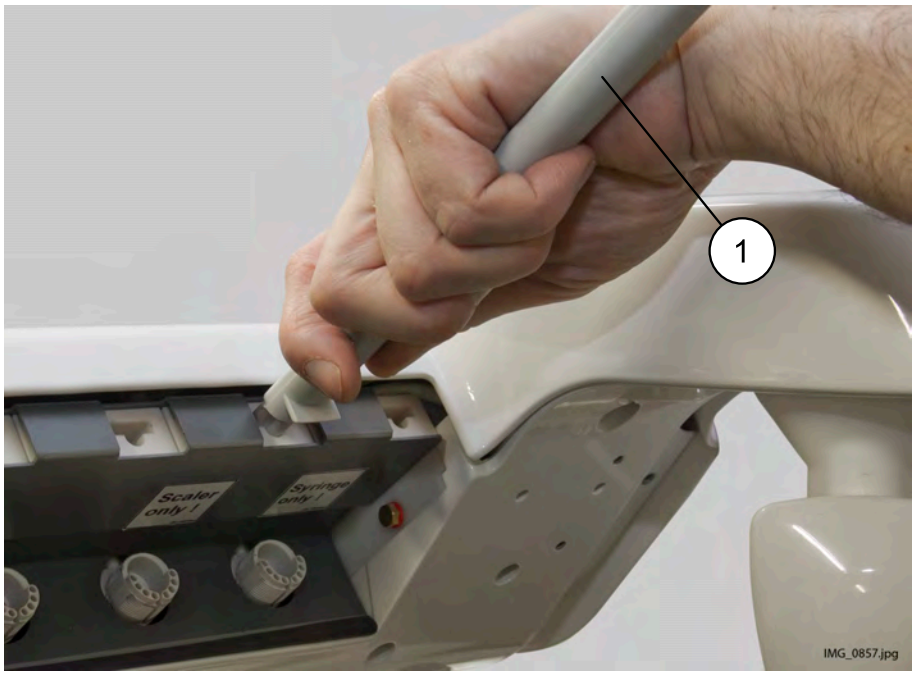
The microprocessor control logic automatically identifies the instrument hose in each position. This enables the instrument positions to be rearranged afterwards without any reprogramming.

NOTE

Please note that you don't have to attach instrument hoses (or instrument arms/holders) to all positions.

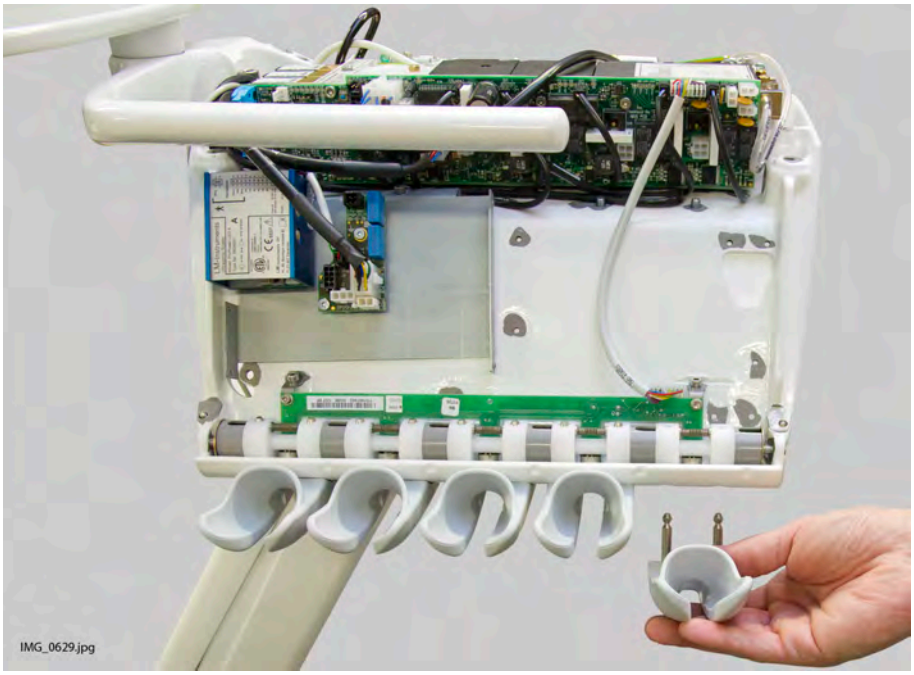
16.1 Attaching balanced instrument arms

Attach the instrument arms (**1**) to the back side of the instrument console by pushing them firmly into position.

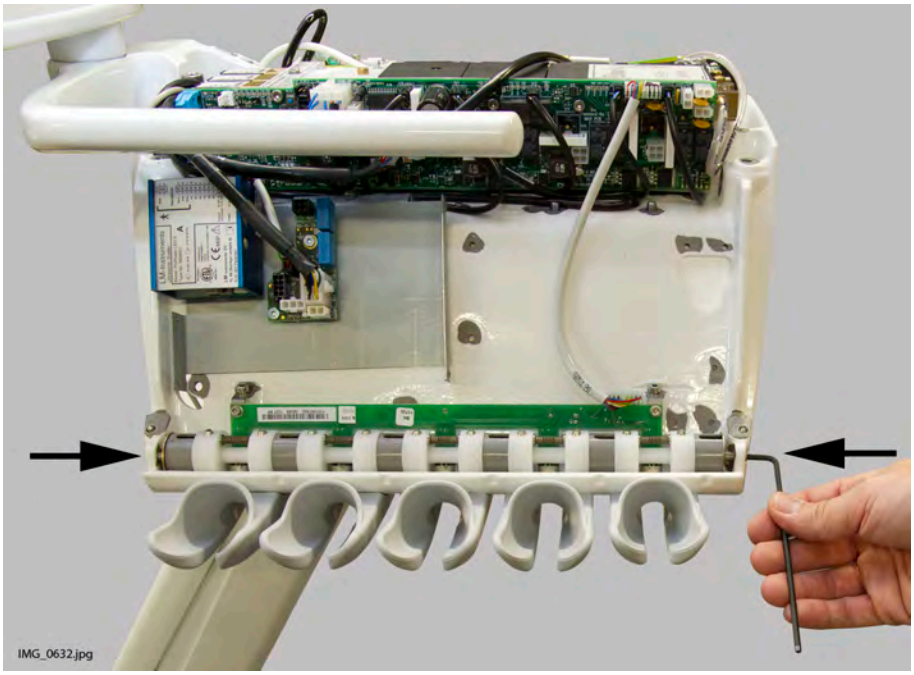


16.2 Attaching hanging tube instrument holders

Attach the instrument holders to the underside of the instrument console by pushing them firmly into position.



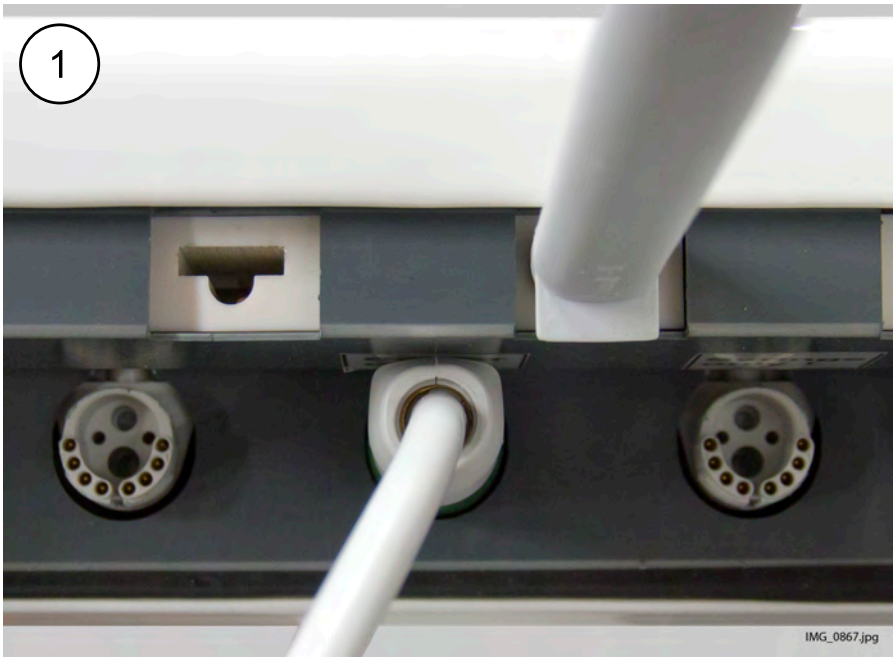
The friction of the holders can be adjusted as follows. Remove the console cover and turn the screws on both sides of the console evenly.

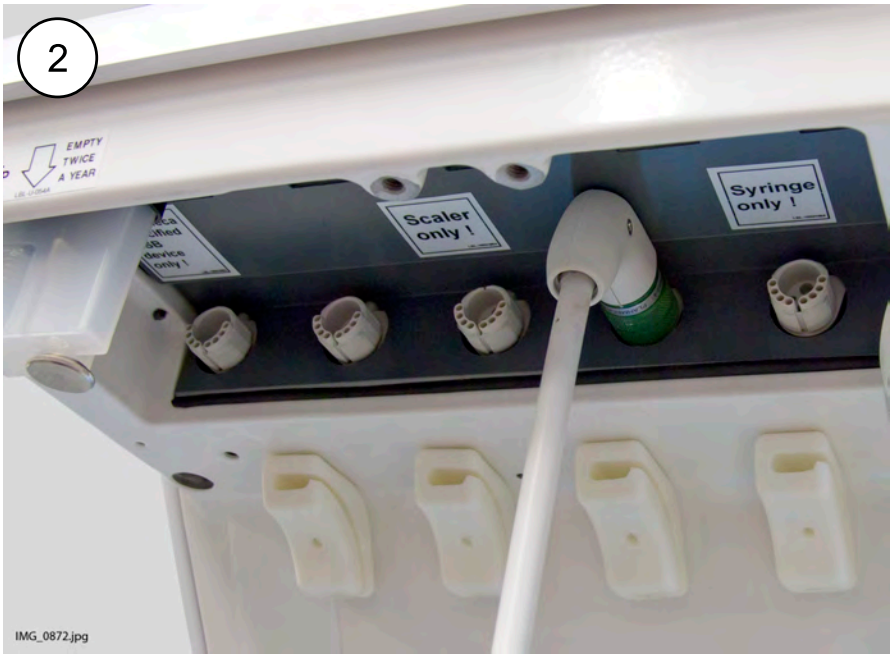


16.3 Attaching instrument hoses

NOTE

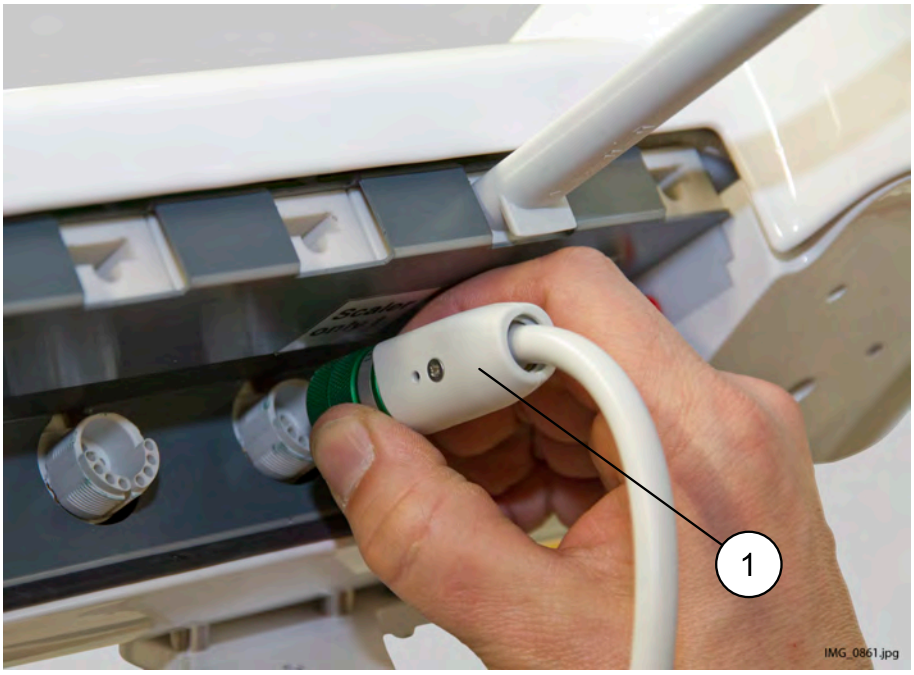
Please note that the quick connectors are polarised (not symmetrical) and should be attached with the flat side upwards.





1 Instrument console with balanced instrument arms
2 Instrument console with hanging-tube instruments

Attach the quick connector instrument hoses (**1**) to the instrument console by pushing them firmly into position and turning the locking ring clockwise.



Attach the syringe instrument into position next to the control panel i.e. to the leftmost position.

CAUTION

Remember to verify that all the instrument hoses are properly connected and the locking rings properly tightened to avoid any leakage.

Instrument console with balanced instrument arms: Route the instrument hoses through the hose guide by carefully bending the hose guide hook and passing the hose over the roller. Connect the instruments to the corresponding hoses and place them into their positions over the instrument console.

Instrument console with hanging-tube instruments: Connect the instruments to the corresponding hoses and place them into their instrument holders. Adjust the holders to the desired angles.

16.4 Installing apex locator assembly

NOTE

The apex locator is not available for Planmeca Compact i Classic.

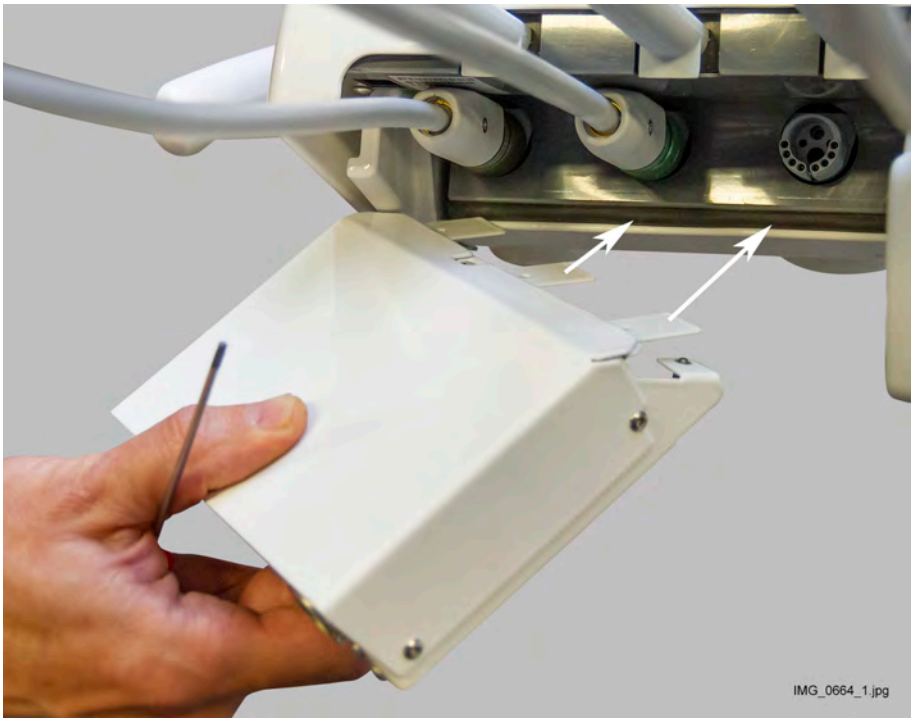
16.4.1 Instrument console with balanced instrument arms

Steps

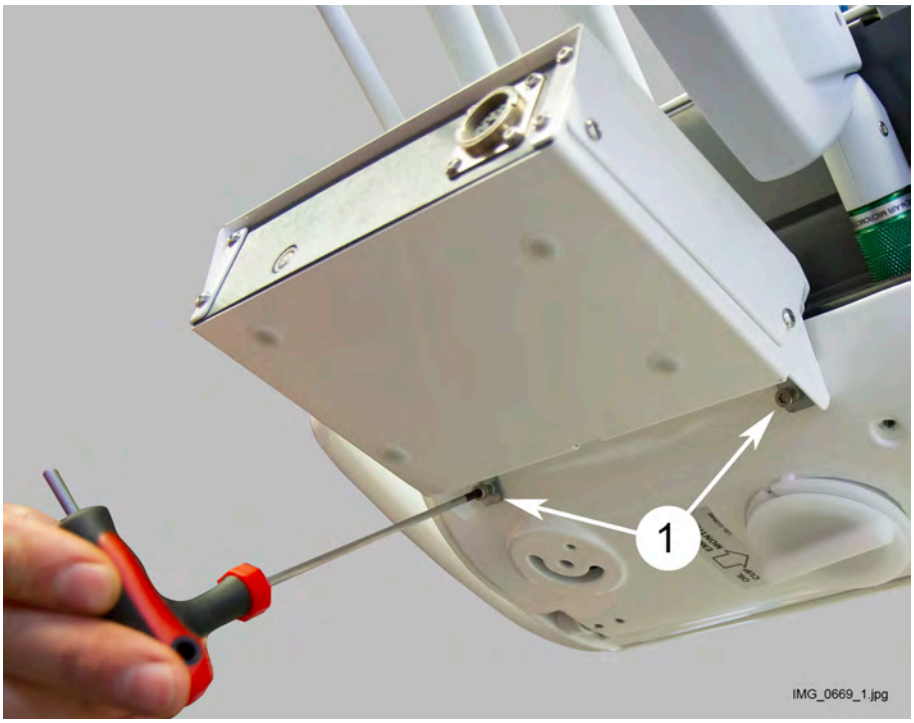
1. Check that the two DIN912 M3x4 screws on the apex locator housing assembly are loosened before installing.

   The screws are tightened in step 3.

2. Slide the apex locator housing assembly into the back of the instrument console.



3. Attach the apex locator housing assembly to the instrument console with two attachment screws DIN912 M3x4 (1) using a 2.5 mm Allen key.

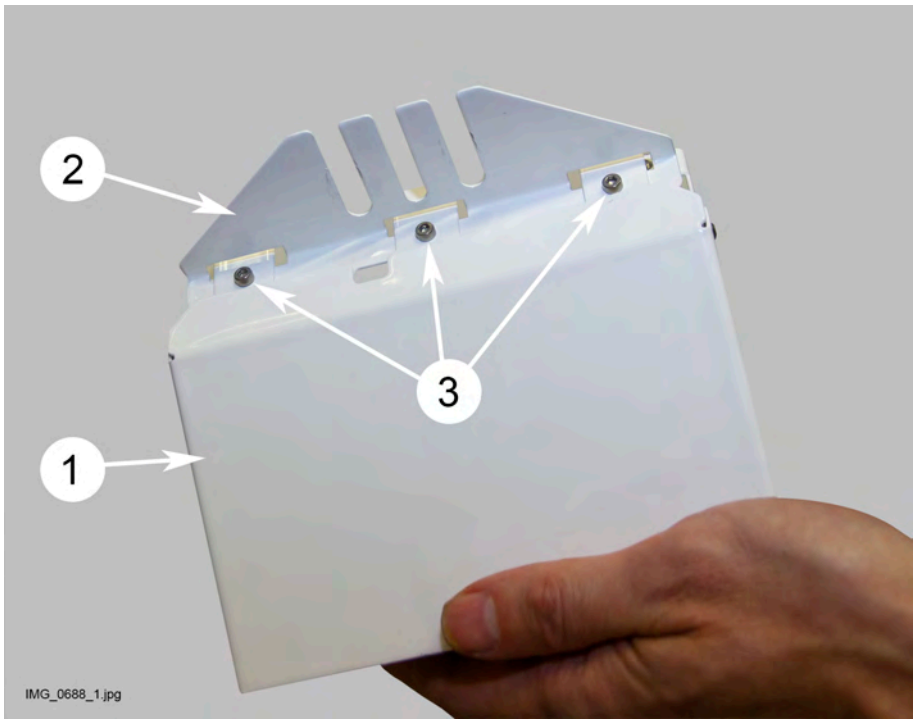


4. Connect the Morita micromotor hose to the apex locator housing assembly and the instrument console, and then connect the micromotor.
5. Test the apex locator function as described in section "Testing apex locator function" on page 87.

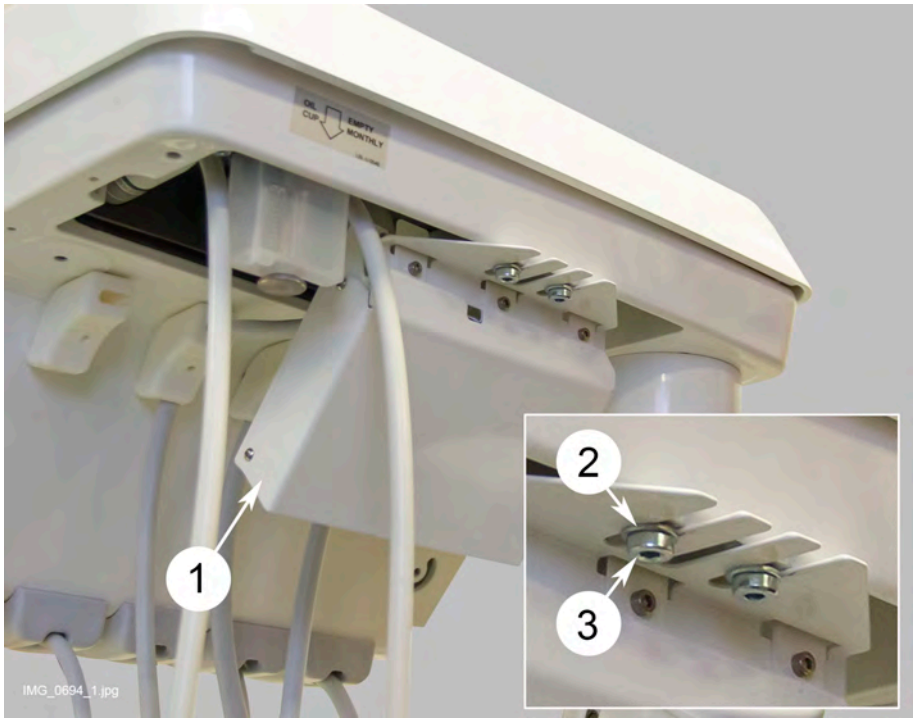
16.4.2 Instrument console with hanging-tube instruments

Steps

1. If not already attached, attach the apex locator housing assembly (1) to the adapter plate (2) with three screws DIN912 M3x4 (3).



2. Loosely attach two washers (2) and screws DIN7984 M6x12 (3) to the instrument console. Hang the apex locator housing assembly (1) on these screws before tightening the screws.



3. Connect the Morita micromotor hose to the apex locator housing assembly (1) and the instrument console, and then connect the micromotor.

4. Test the apex locator function as described in section "Testing apex locator function" on page 87.

16.4.3 Testing apex locator function

About this task

The apex locator function must be tested weekly.

NOTE

While the test is going on, the dental unit's control panel is locked.

Steps

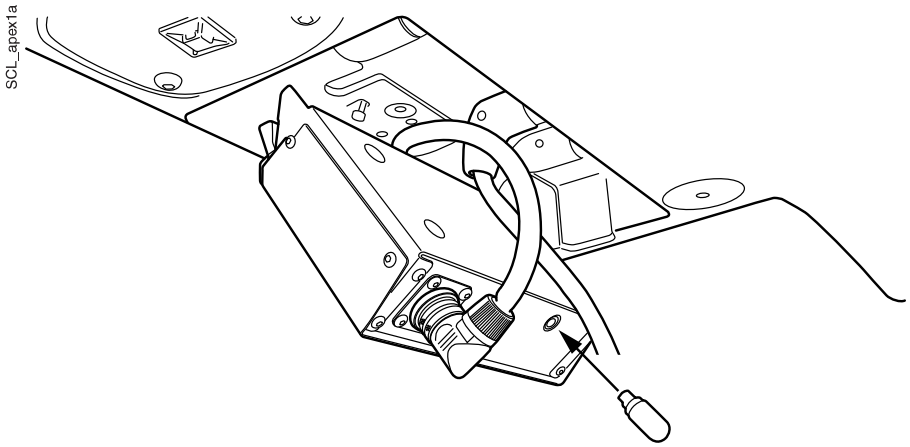
1. Open the *Apex locator* window on the control panel either by pressing the **Apex locator** button or by activating the Morita micromotor and selecting one of the apex presets (a1 - a3).

NOTE

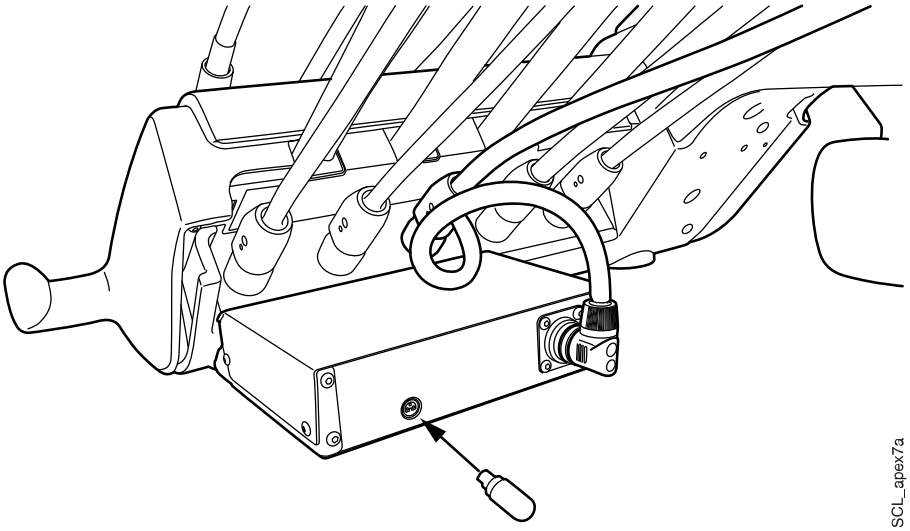
If the Apex locator button is not visible in your control panel's swipe menu, you must add it. For instructions, see your Planmeca dental unit's user's manual, section *Organising items on control panel*.

2. Insert the tester into the jack on the back of the instrument console.

   Compact i dental unit with hanging-tube instruments



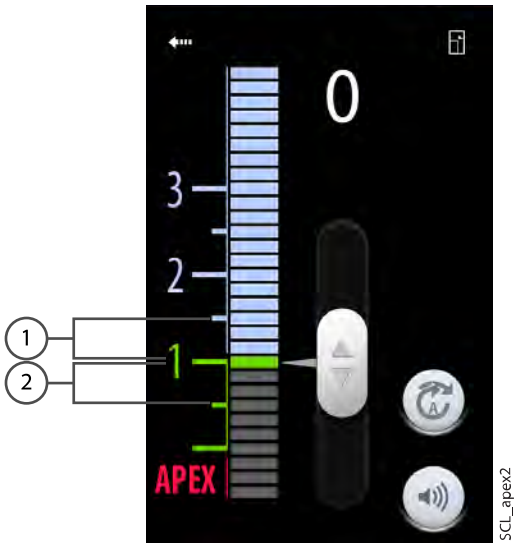
   Compact i dental unit with balanced instrument arms



3. Check that the meter indicates within 3 bars above or below 1.

   The meter may jump when the tester is inserted. If it does, wait for about one second until the meter stabilises and then check the reading.

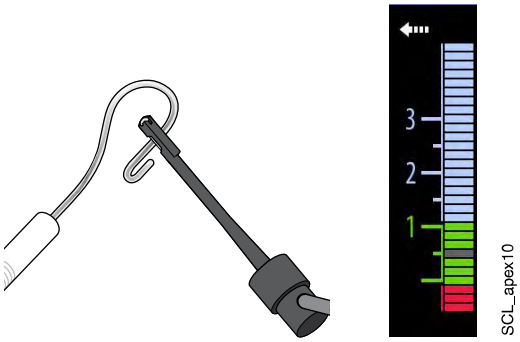
   If the reading is 4 or more bars away from 1, the unit will not make an accurate measurement. Contact Planmeca After Sales.



1 3 bars above 1

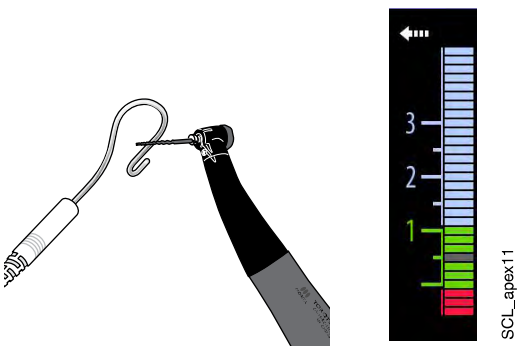
2 3 bars below 1

4. Check that the file holder and contrary electrode are properly connected to the probe cord.
5. If you are using a hand file with the apex locator, touch the metal part of the file holder with the contrary electrode. Check that all the meter indicator bars in the *Apex locator* window light up.



If the indicator bars do not appear normally, stop using the device and contact Planmeca After Sales.

6. If you are using the Morita TORX micromotor and the CA-10RC-ENDO 10:1 handpiece with the apex locator, touch the file with the contrary electrode. Check that all the meter indicator bars in the *Apex locator* window light up.



If the indicator bars do not appear normally, stop using the device and contact Planmeca After Sales.

16.5 Bleeding spray water system

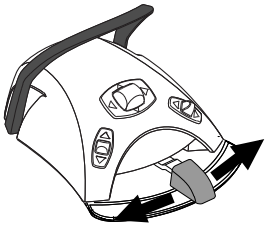
About this task

After unit installation air must be removed from the spray water system.

Steps

1. Open the instrument console cover.
2. Activate the turbine or micromotor by picking it up from the instrument console.
3. Press the instrument spray button to turn on the spray water.

4. Operate the activated instrument with the foot control.



5. While operating the instrument, loosen the bleeding screw until the water flows out.

   NOTE

   If the water is not bleeding out properly, loosen the two flange nuts a little. When the bleeding is done, tighten the nuts again.

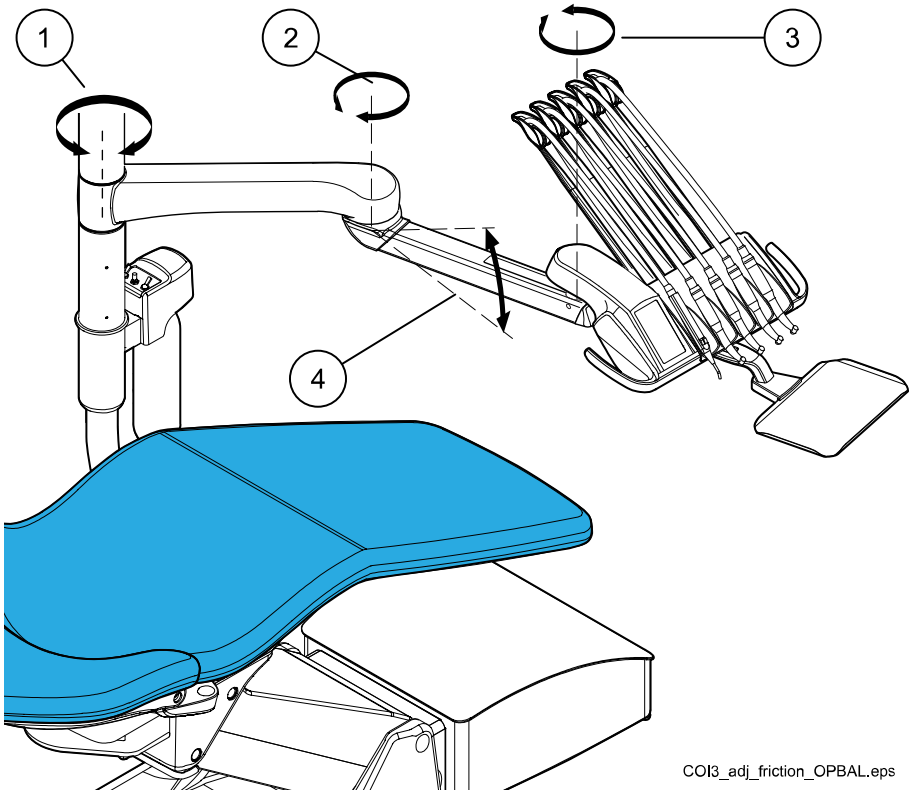
6. Tighten the screw so that the water flow stops.
7. Release the foot control pedal and return the instrument to its place in the instrument console.
8. Remove the label attached to the console and attach the console cover.

17 Final adjustments

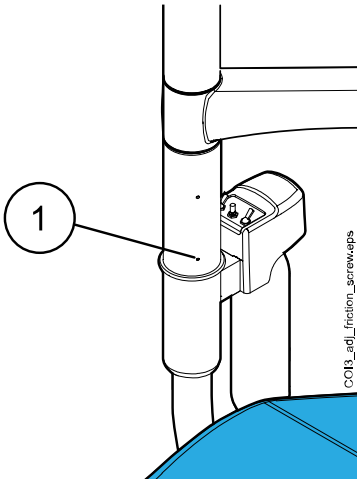
17.1 Adjusting friction of OP delivery arm joints

The following frictions can be adjusted:

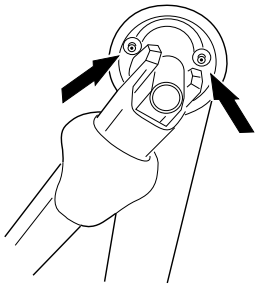
1. Rotational friction of console arm column
2. Rotational friction of console arm
3. Rotational friction of instrument console
4. Lifting friction of console arm



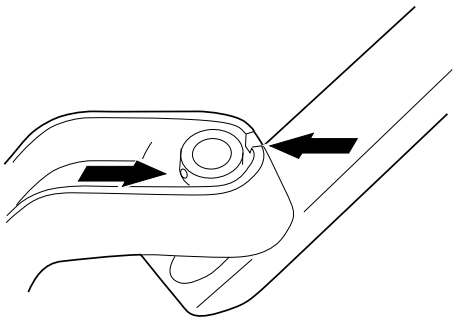
Adjust the rotational friction of the console arm column with the adjustment screw (1) located on the column.



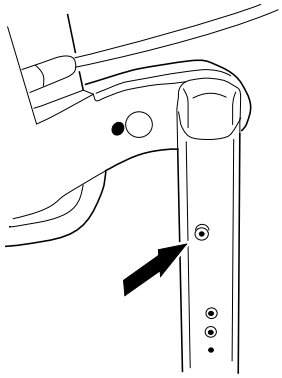
Adjust the rotational friction of the console arm with the 4 mm Allen key. Adjust the two screws equally to avoid wearing. Tightening the screws increases the friction.



Adjust the rotational friction of the instrument console with the 4 mm Allen key. Adjust the two screws equally to avoid wearing. Tightening the screws increases the friction.



Adjust the lifting friction of the console arm with the 4 mm Allen key. Tightening the screw increases the friction.



18 Switching on dental unit

First, press the on/off switch located at the rear of the unit base to turn the unit on. Then, sign in to the dental unit either with a PlanID card or by selecting a user from the control panel.

For instructions, see the Planmeca dental unit's user's manual.

19 Adding service contact details

About this task

Before handing over the dental unit to the customer, you can add service contact details to the dental unit so that the customer knows whom to contact when they need technical assistance.

Steps

1. Press **Program**.

2. Press **About this unit**.
3. Press **Service**.
4. Press **Service contact details**.
5. Fill in the service contact details.

   The following details must be filled in:

   - First name
   - Last name
   - Phone
   - E-mail

Edit the contact details by pressing the **Edit** button next to each item. Enter the PIN-code 1701 when prompted.

A new window with an alphanumeric keyboard opens where you can edit the contact detail.

Use the arrows in the top row to move to the left and right in the text.

The symbols below the arrows in the top row can be used as they are, or as a shortcut to letters containing that symbol. For example, when you press **^** for about one second, letters with the symbol ^ are displayed. You will automatically return to the normal view when you enter one of the letters. To return to the normal view without entering a letter, press the symbol again.

To display special characters, press **Alt**. Press **Alt** again to return to the normal view.

To save the edited contact detail, press **OK**. To exit the window without changing the name, press **Close**.

6. Press **OK** to close the *Service contact details* window.

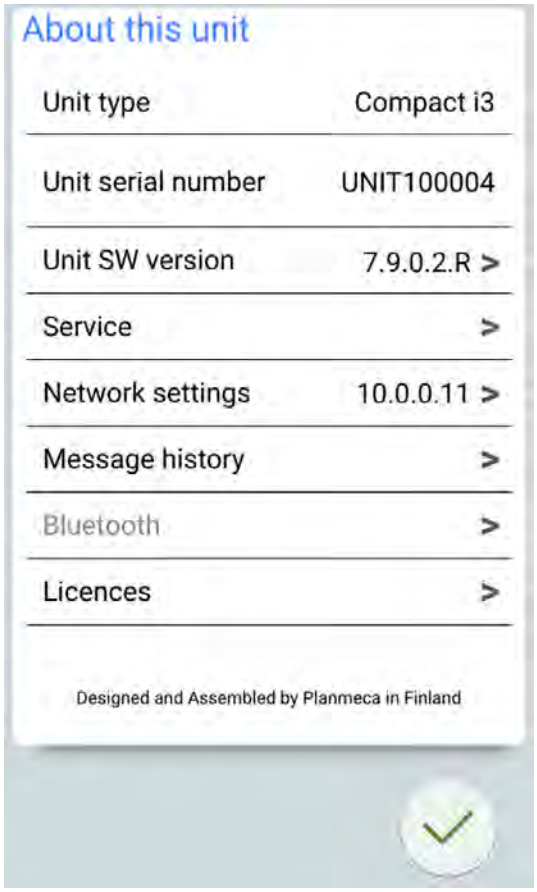
20 Resetting yearly maintenance counter

You must reset the yearly maintenance counter after dental unit installation.

A help message will remind the user about the yearly maintenance in advance. The factory default is 30 days but you can change the number of days in service mode 400.

Press the **Program** button and the **About this unit** button.

The *About this unit* window appears.



Press **>** next to *Service* to open the *Service* window with information for service situations. In the *Service* window, press **>** next to *Yearly Maintenance* to access the following information:

- When the yearly maintenance was last performed
- How many days are left until the next yearly maintenance

The last item, *Confirm yearly maintenance*, is for confirming that you have successfully completed the yearly maintenance. Press **>** to display the *Confirm yearly maintenance* window and enter the PIN-code 1701 when prompted. Press **OK** to reset the yearly maintenance counter.

21 PlanID reader settings

If the dental unit is equipped with PlanID reader, the reader must be enabled after installation.

Enter the service mode **600**. In this service mode you can select the area of operation:

- OFF = NFC and UHF radio disabled (default)
- EU = European union 3
- US = North America 3
- CA = Canada
- Cn = China
- In = India
- Kr = Korea
- AU = Australia
- nZ = New Zealand

NOTE

Do not use PlanID reader outside supported regions.

Enter the service mode **602**. In this service mode you can enable the PlanID reader.

22 Post-installation checklist

After installing the unit, carry out all relevant checking and calibration tasks defined in the following checklist.

NOTE

The relevant checking and calibration tasks vary depending on the optional equipment and features included in the delivery.

For information on how to carry out the checking and calibration tasks, see the technical manual.

Customer	
Installation location	
Software version	
Serial number	
Installation date	

Junction box

☐ Check the main air and water connections

☐ Check the drain and suction line connections

☐ Check the mains voltage cable and grounding connections

Voltage jumper setting (connector P21): _____VAC.

☐ Check the additional electrical connections

Suction motor control, assistant call etc.

☐ Check the connections for optional features

Ethernet, USB cable, etc.

Perform the needed settings. Refer to dental unit and Planmeca Romexis technical manuals.

IP address: _____

Subnet mask: _____

☐ Adjust the internal air and water pressures

In the service mode 38 (air 5.0...5.5 bar, water 2.5…2.8 bar).

☐ Check the operation of the suction system

Suction system type: _____

☐ Check the operation of the foot control

Calibrate, if needed.

☐ Check the operation of the suction arm

☐ Check the operation of the safety switches

Delivery arm

☐ Check the friction of the delivery arm joints

Adjust, if needed.

☐ Check the balance of the delivery arm

Adjust, if needed.

☐ Check the instrument hoses and quick connectors

☐ Check the function of the control panel

☐ Check the operation of the syringe

Adjust air/water flow from the syringe multiplexer block, if needed.

☐ Check the operation of the turbine

Pressure: _____bar.

☐ Check the operation of the micromotor

☐ Check the operation of the polymerisation light

☐ Check the operation of the ultrasonic scaler

If with LED, check that service mode 39 is set to maximum.

Patient chair

☐ Visually check the condition of the chair and upholsteries

☐ Check the calibration of motors in service modes 79 & 80

Recalibrate, if necessary.

☐ Check the programming function and general operation

☐ Check the operation of the emergency switches

Backrest, seat and lifting arm.

☐ Check the operation of the headrest locking mechanism

Solanna operating light

☐ Check the mechanical installation

☐ Check the electrical installation

☐ Check the operation of the on/off switch

☐ Check the operation of infrared light sensor (dimming)

For more information, refer to the Solanna operating light installation manual.

Mechanical stability

☐ Floor attachment screws

Electrical safety

☐ Check the mains voltage cable and grounding connections

☐ Perform the electrical safety measurement according to the local requirements

Refer to instructions *Planmeca Compact i3 Electrical safety measurements according to IEC 62353*.

Technician's signature		Date	
Customer's signature		Date	

PLANMECA

Planmeca Oy | Asentajankatu 6 | 00880 Helsinki | Finland

tel. +358 20 7795 500 | fax +358 20 7795 555 | sales@planmeca.com | www.planmeca.com