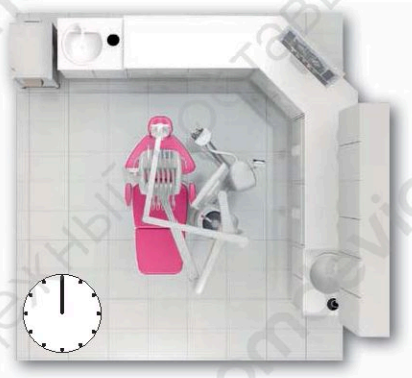
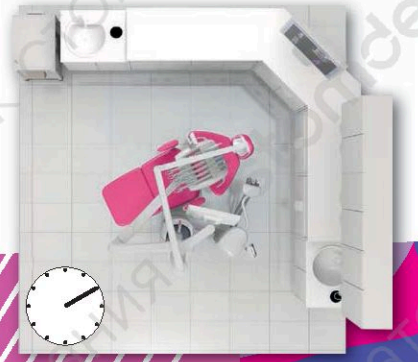
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Planmeca Sovereign™

EN

installation manual

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1 INTRODUCTION 1

2 CONTENTS OF THE PACKING 2

2.1 Associated documentation 3

3 PRE-INSTALLATION REQUIREMENTS 4

3.1 Arm movements 4
3.2 Basement 5
3.3 Environmental requirements 5
3.4 Plumbing requirements 6
3.5 Electrical requirements 7
3.6 Patient area 8
3.7 Fire stopping of the installation site 9

4 UNIT CONFIGURATION 10

4.1 Planmeca Sovereign with OP delivery arm and hanging tube instrument holders 11
4.2 Planmeca Sovereign with side delivery arm 12

5 OPERATIONS PRIOR TO THE CUSPIDOR ATTACHMENT 14

5.1 Using the support for floor tubing 16
5.2 Attaching the installation plate to the floor 18

6 INSTALLING THE CUSPIDOR 20

6.1 Attaching the cuspidor to the floor 20
6.2 Dental units with fixed base: Changing the cuspidor installation position (right-handed/left-handed) 24
6.3 Removing the transport handle and wheels 31
6.4 Checking the vertical position of the cuspidor 32
6.5 Connecting the service tubes 34
6.6 Connecting the cables 37

7 INSTALLING THE SEPARATE CONNECTION CASE (OPTIONAL) 42

8 INSTALLING THE PYLON AND ARMS 48

8.1 Installing the pylon 48
8.2 Installing the rotating OP delivery arm 53
8.3 Installing the fixed OP delivery arm 65
8.4 Installing the balanced arm instrument console 74
8.5 Installing the HT instrument console 78
8.6 Attaching the OP delivery arm covers 81
8.7 Attaching/detaching the graphic user interface (GUI) 85

9 INSTALLING THE PYLON AND ARM ACCESSORIES 87

9.1 Attaching tray to the balanced arm instrument console 87
9.2 Attaching rotating tray to the HT instrument console 90
9.3 Installing the monitor to the pylon 93
9.4 Installing the Planmeca white monitor to the HT console 103
9.5 Installing the Sterile water system to the instrument console 108
9.6 Installing the Planmeca SingLED operating light 110
9.7 Installing Zeiss OPMI pico microscope 111
9.8 Installing the bracket for additional equipment 119

10 ATTACHING THE PYLON COVERS 122

11 INSTALLING THE ASSISTANT ELEMENT 123

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11.1 Attaching the assistant element to the cuspidor 123
11.2 Attaching the suction tubes 128
11.3 Attaching the assistant element's instruments 128

12 INSTALLING THE PATIENT CHAIR 129
12.1 Attaching the chair to the cuspidor 129
12.2 Attaching the seat bottom plate 135
12.3 Attaching the upholsteries 136
12.4 Attaching the armrests 139

13 INSTALLING THE SIDE DELIVERY ARM 140

14 CONNECTING THE FOOT CONTROL 150

15 ATTACHING THE COVERS 151
15.1 Cuspidor bottom plate 151
15.2 Cuspidor side and front covers 152
15.3 Base cover 156
15.4 Base footing strips 157
15.5 Chair adapter cover 158

16 INSTALLING THE INSTRUMENTS 159

17 FINAL ADJUSTMENTS 160
17.1 Adjusting the OP delivery arm 160
17.2 Adjusting the side delivery arm 168
17.3 Assistant element adjustments 172

18 CONNECTIONS 177

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 and authorized personnel

- electrical installations are carried out according to the appropriate requirements such as IEC364

- 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.

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1 INTRODUCTION

This manual contains all the information required to install and set up the **Planmeca Sovereign** family dental units. Please read this manual carefully before installing the unit.

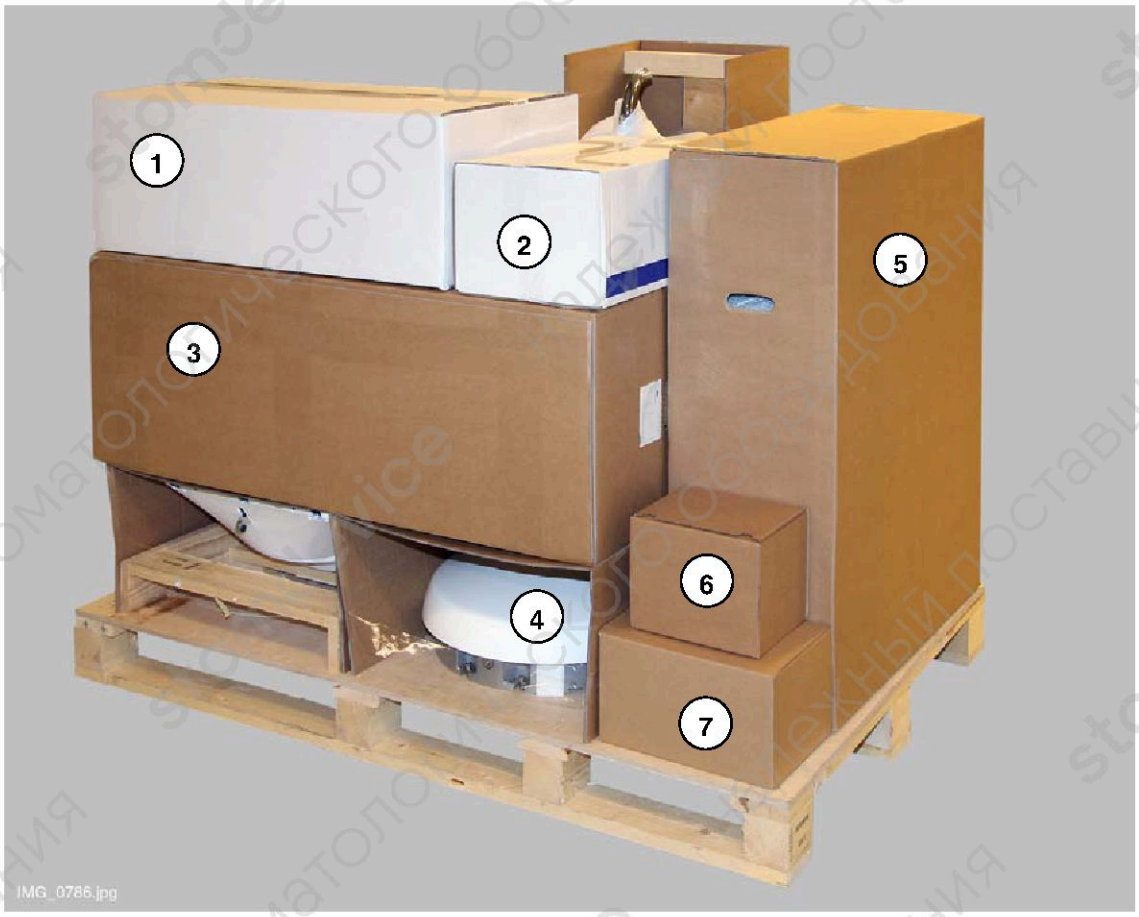
NOTE **The information given in this manual should be taken as a general guide for proper installation of the Planmeca Sovereign dental unit. However, in the cases that this information is contradictory to any local or national building regulations, the building regulations must always override this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

CAUTION ***The whole package (approx. 320 kg) as well as the cuspidor assembly (approx. 90 kg) must be moved with appropriate transport device (refer to 2 "CONTENTS OF THE PACKING" on page 2). Special care and caution must be exercised during installation. Two persons are needed for the installation.***

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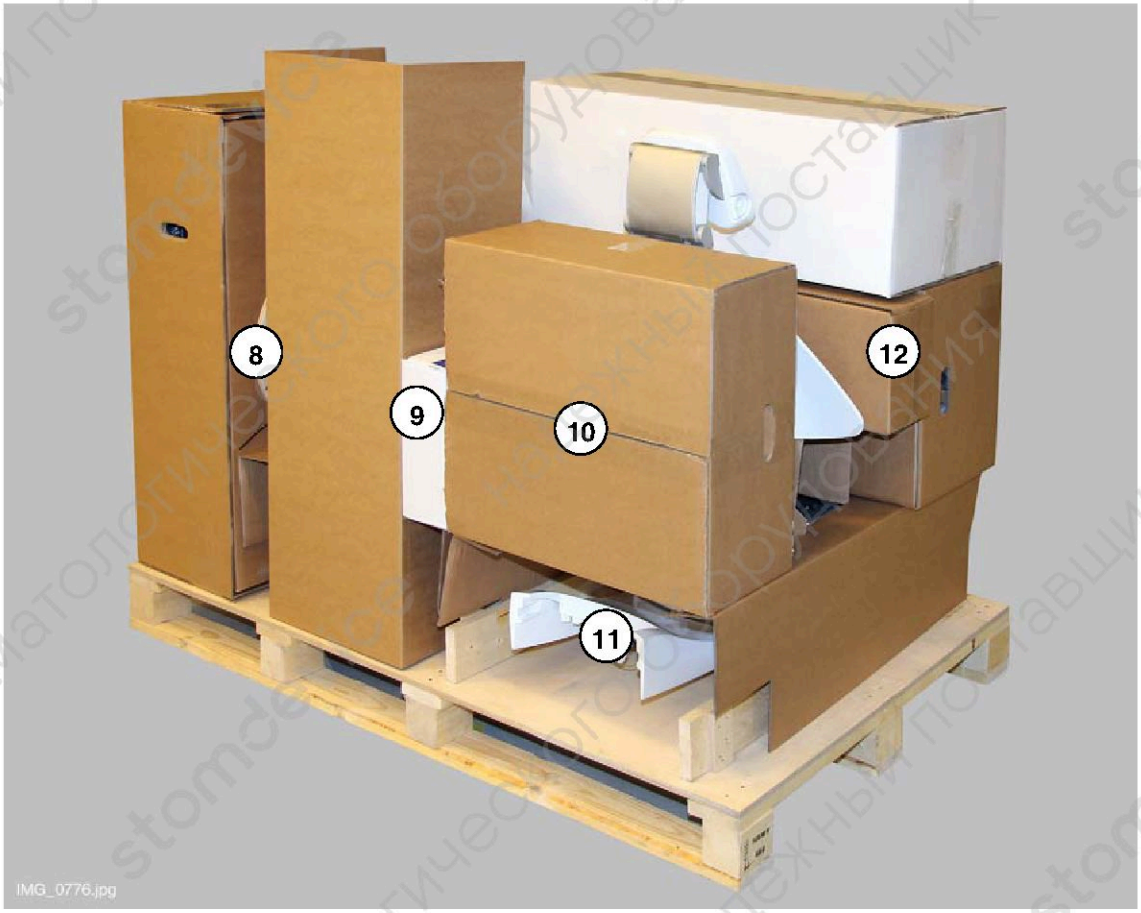
2 CONTENTS OF THE PACKING



1. Cuspidor covers, cuspidor bottom plate, legrest, seat adapter bottom plate, tray table.
2. Monitor arm
3. Delivery arm
4. Cuspidor
5. Assistant element
6. Graphical user interface
7. Foot control

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8. Plywood template and anchors
9. Bowl
10. Instrument console, balanced arms, hygiene membrane, instruments
11. Patient chair
12. Pylon

2.1 Associated documentation

You will need the installation pattern as a template to position the unit correctly. Install the unit in position according to the instructions given in this manual. Verify the operation of the installed unit according to the User's manual.

You will also need the Planmeca Sovereign wiring diagram (publication number D0001057) during the installation.

All the documentation listed above is supplied with the unit. The operating light has also its own installation manual. In the case that the operating light is installed to the unit, that manual is not needed since the installation is described in this manual.

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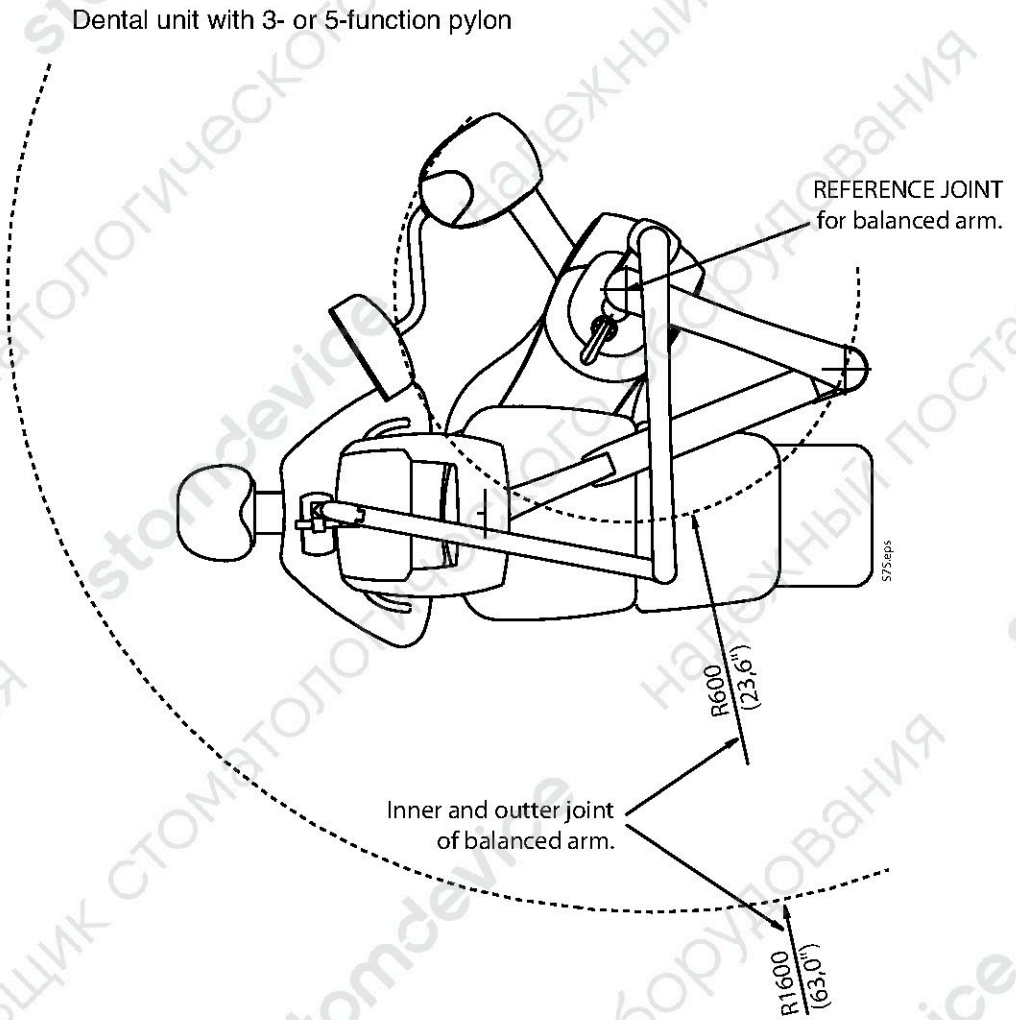
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3 PRE-INSTALLATION REQUIREMENTS

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.

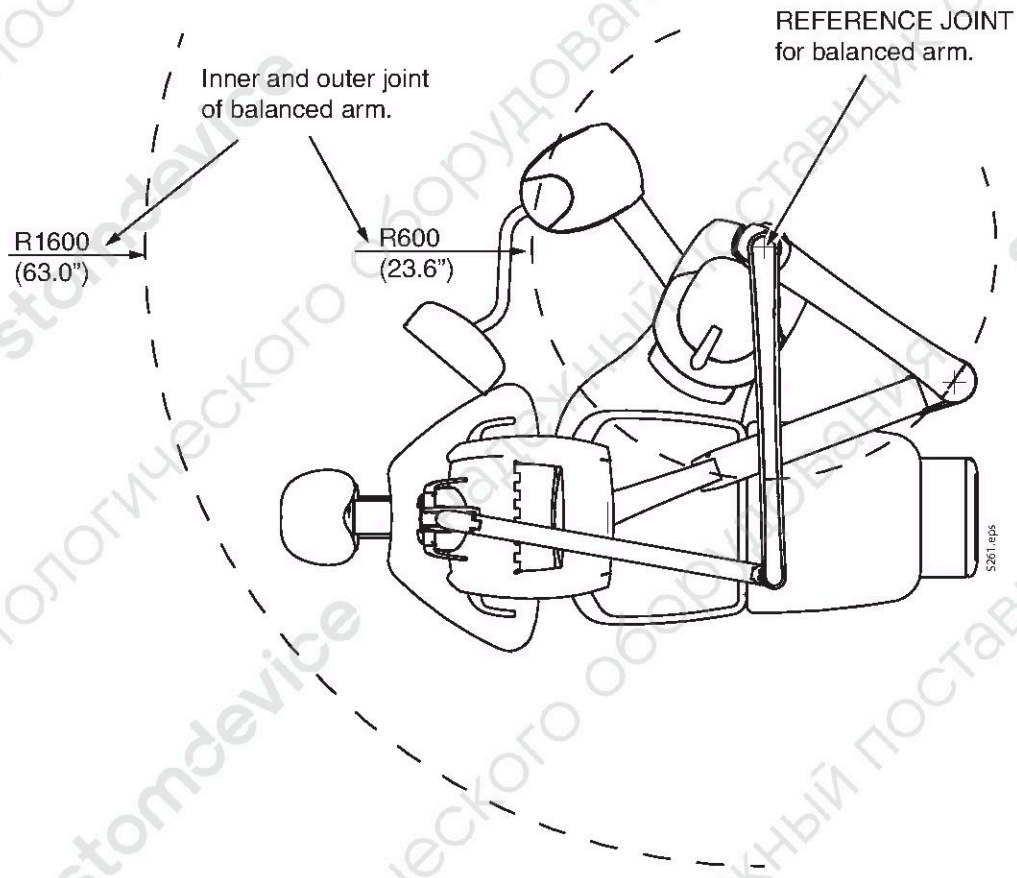
3.1 Arm movements



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Unit with 3- or 5-function pylon with rotating joint



3.2 Basement

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

The floor must be straight within 1%.

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

Antistatic floor materials should be preferred.

3.3 Environmental requirements

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)

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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.**

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)

3.4 Plumbing requirements

Air supply

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. A compressor with an air dryer must be used to ensure that the air is clean, dry and oil free.

Both air and water supply lines must be supplied with manual valves which close the air supply according to the dental unit.

Water supply

The water pressure used must be between 300-900 kPa (3 - 9 bar) (45 - 130 psi) with a flow of at least 3 l/min. The water must be drinking quality and free of all particles larger than 5µm that could block the small tubes in the dental unit.
If the water supply contains particles larger than 5µm an accessible filter (5 micron) must be fitted to the water inlet pipe.
If the water has hardness greater than 8 °dH (1 °dH = 20 mg calcium/3 l water) a water conditioner must be fitted to the water inlet pipe. Hard water can very quickly ruin a dental unit.

NOTE **The water supply line must be equipped with back flow prevention valve according to local requirements. Refer to the installation pattern.**

Suction

The produced static vacuum prior to the suction calibrating valve 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.
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.

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Drain

The drain line must have a continuous fall of at least 1% and be able to handle a flow of at least 10 l/min.
The drain line must be free from sharp bends and any other conditions that might create back pressure. Do not use the same drain line with other dental equipment or wash basins.

3.5 Electrical requirements

Mains voltage

The possible voltage settings are 100 V~ - 240 V~.

Mains frequency

The mains frequency is 50 or 60 Hz.

External mains fuse recommendation

The recommendation for the external fuses are:

- F 16A H 250V

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.

External mains switch

Mains voltage supply for the dental unit shall be equipped with a separate fixed assembled mains switch according to standard IEC 60947-3 or IEC 61058-1 complying with isolation distances for 4 kV requirements. This switch shall disconnect the mains power supply from both the mains and the neutral lines.

Grounding

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

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).

Power consumption

The idle (instruments in holders) power consumption is 100 W. Maximum power consumption is 1000 W.

Residual-current device

The dental unit must be equipped with a residual-current device (RCD), which is also known as ground fault interrupter (GFI).

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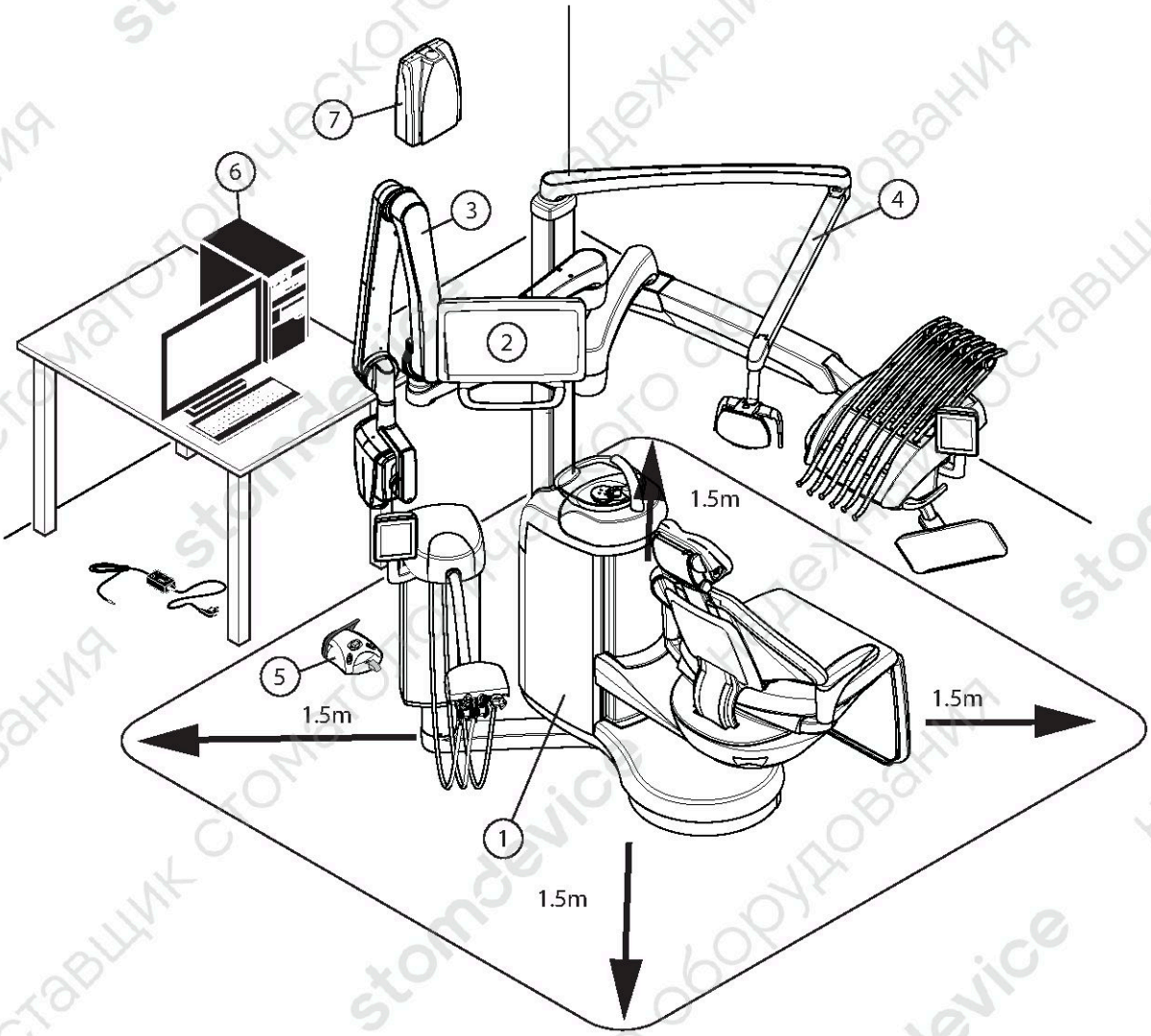
3.6 Patient area

NOTE **The external PC connected to the system must be:**
- IEC 60950 -approved (CE marked)
- located outside the patient area (1.5 m in each direction, see figure below) and
- protectively earthed.

NOTE **The monitor installed to the system must fulfil IEC 60950 requirements.**

NOTE **Keyboard and mouse connected to external PC as well as Planmeca ProSensor's power supply and Planmeca ProX generator assembly must be located outside the patient area.**

NOTE **Connect only Planmeca specified devices.**



Inside patient area:

1. Dental unit
2. Planmeca monitor
3. Planmeca ProX X-ray tube head and arm assembly
4. Planmeca SingLED operating light
5. Foot control. Use only IEC 60601-1 approved power source supplied by Planmeca

Outside patient area:

6. External PC
7. Planmeca ProX generator assembly

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3.7 Fire stopping of the 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 on 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).

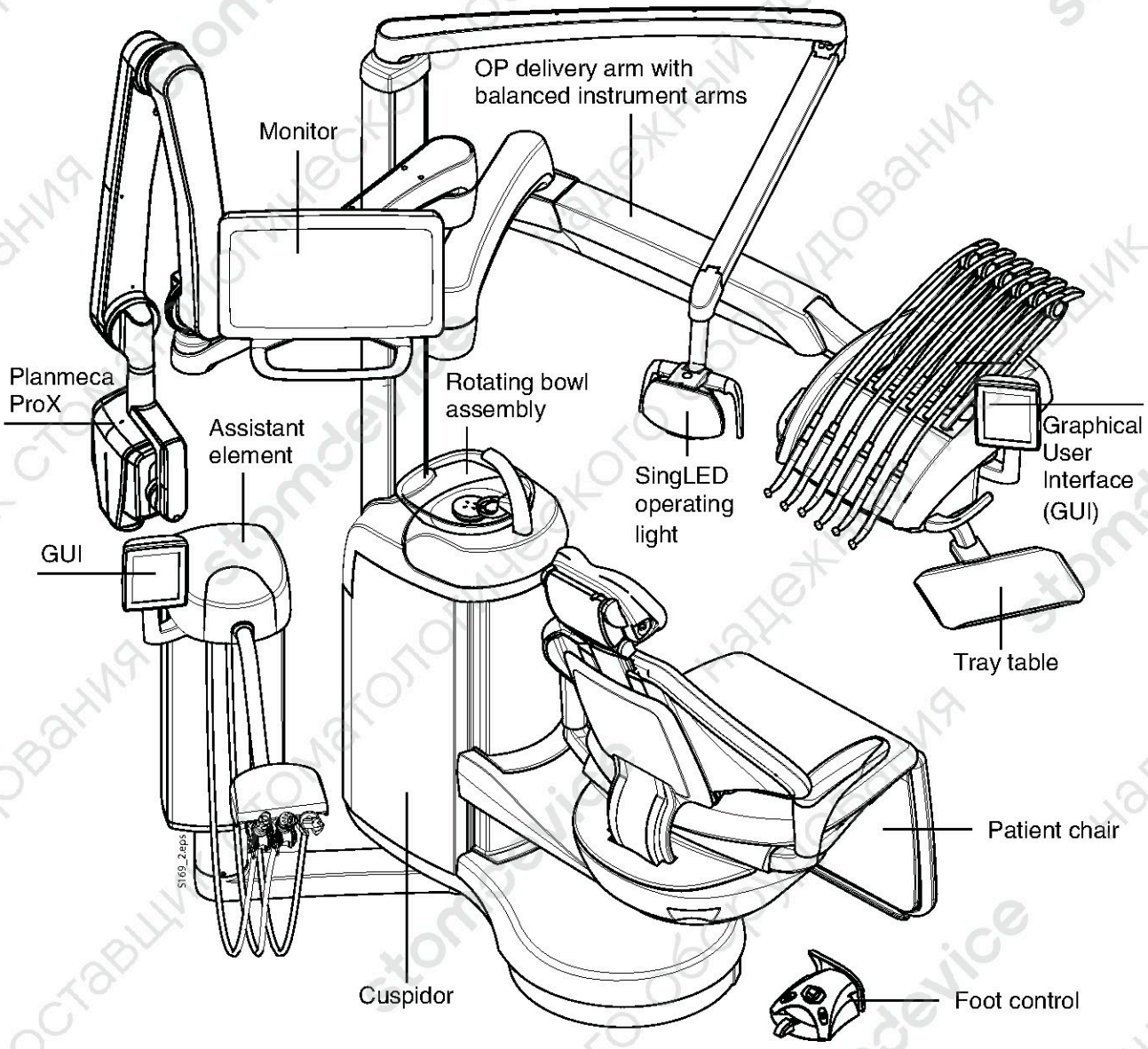


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4 UNIT CONFIGURATION

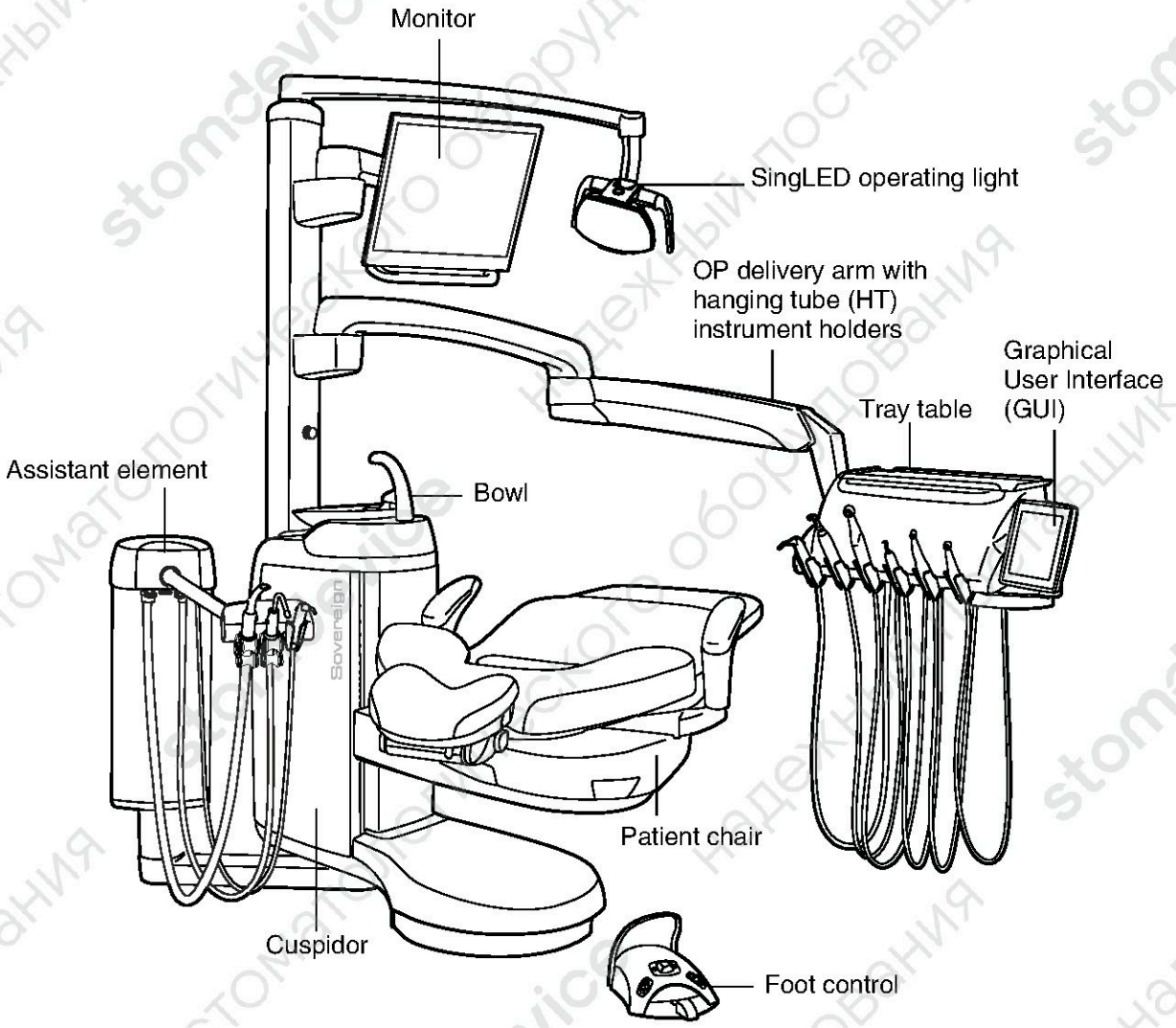
Planmeca Sovereign with OP delivery arm and balanced instrument arms



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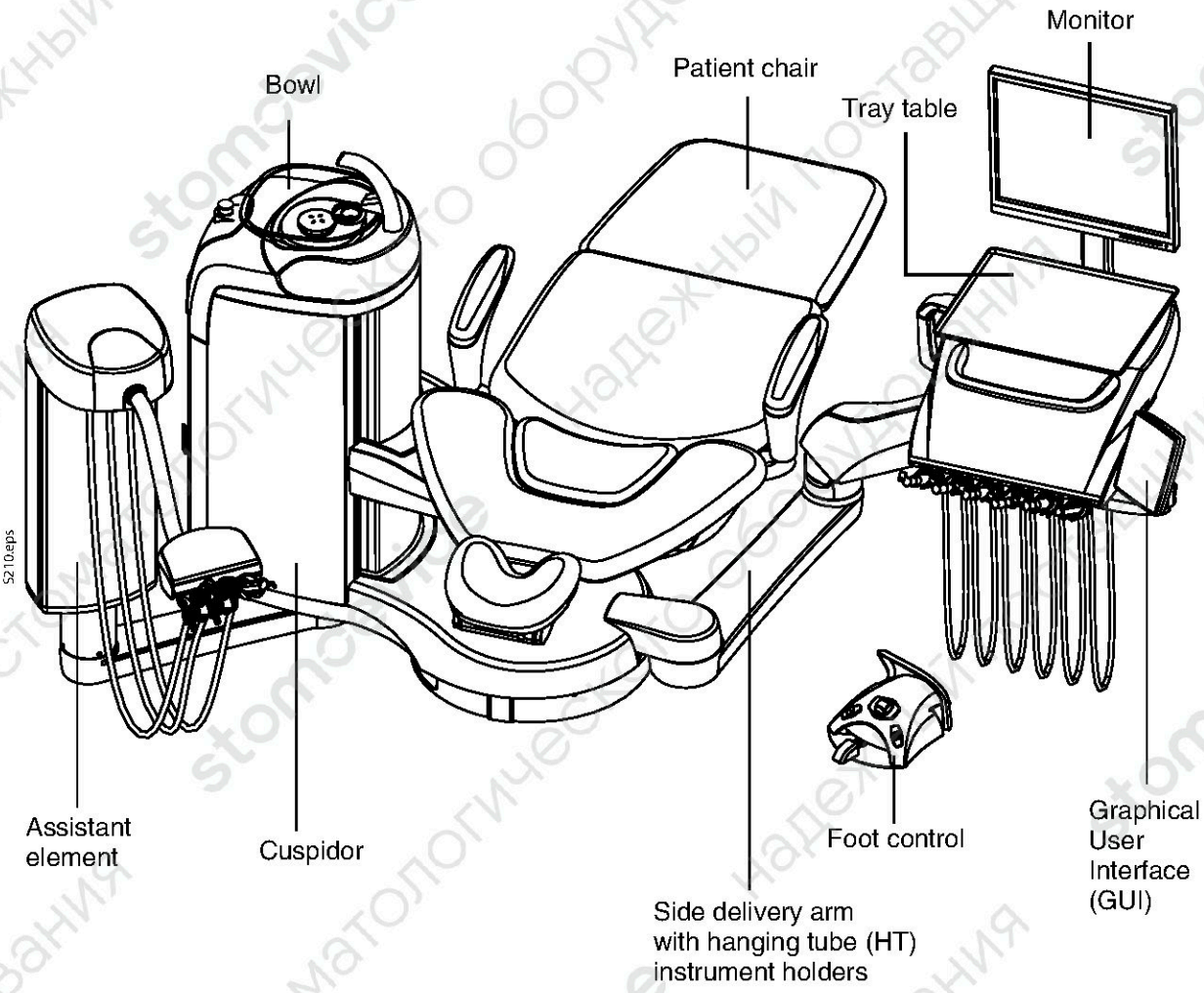
4.1 Planmeca Sovereign with OP delivery arm and hanging tube instrument holders



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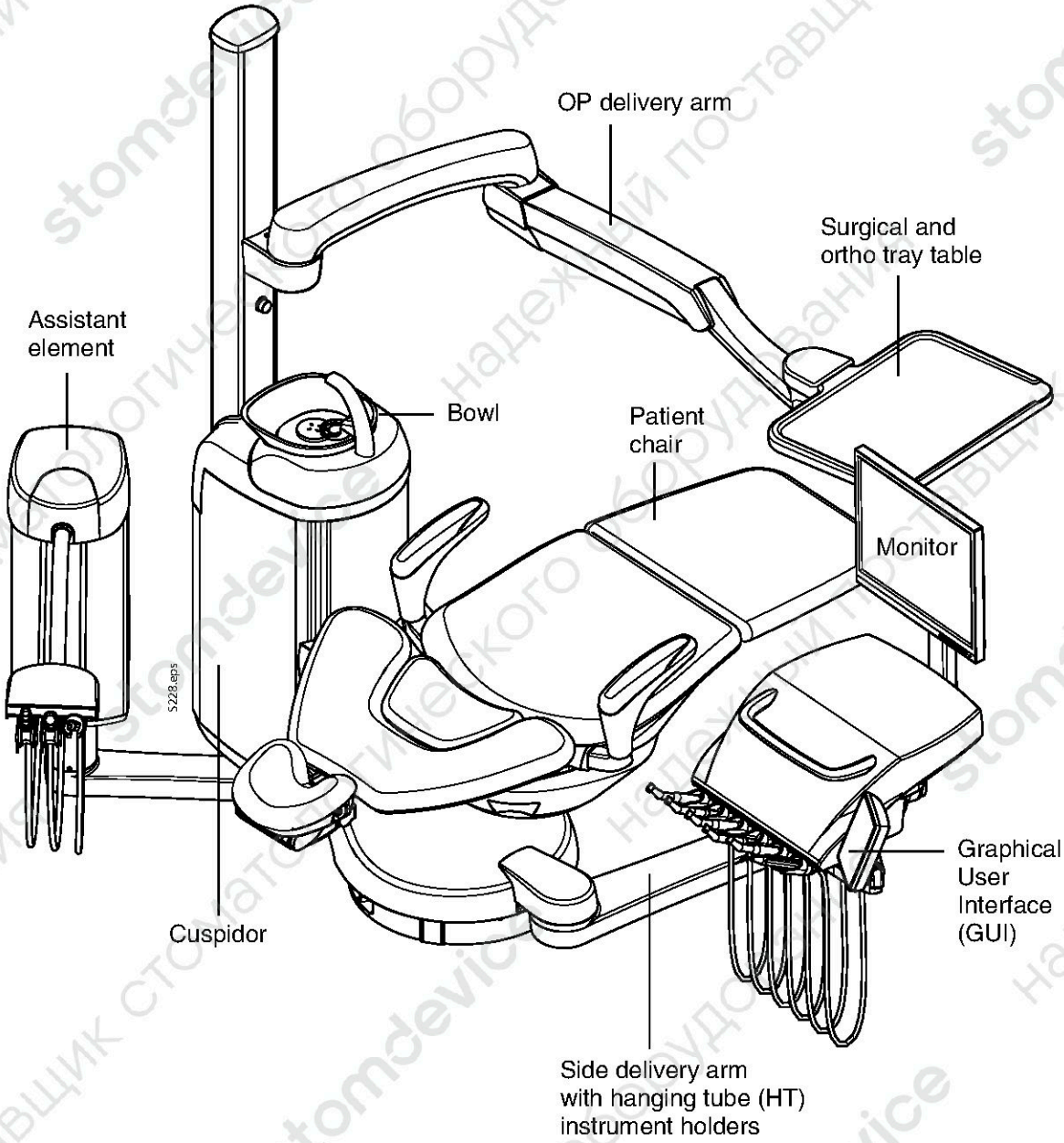
4.2 Planmeca Sovereign with side delivery arm



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The following picture presents the Planmeca Sovereign with side delivery arm and equipped with the optional surgical and ortho tray table.



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5 OPERATIONS PRIOR TO THE CUSPIDOR ATTACHMENT

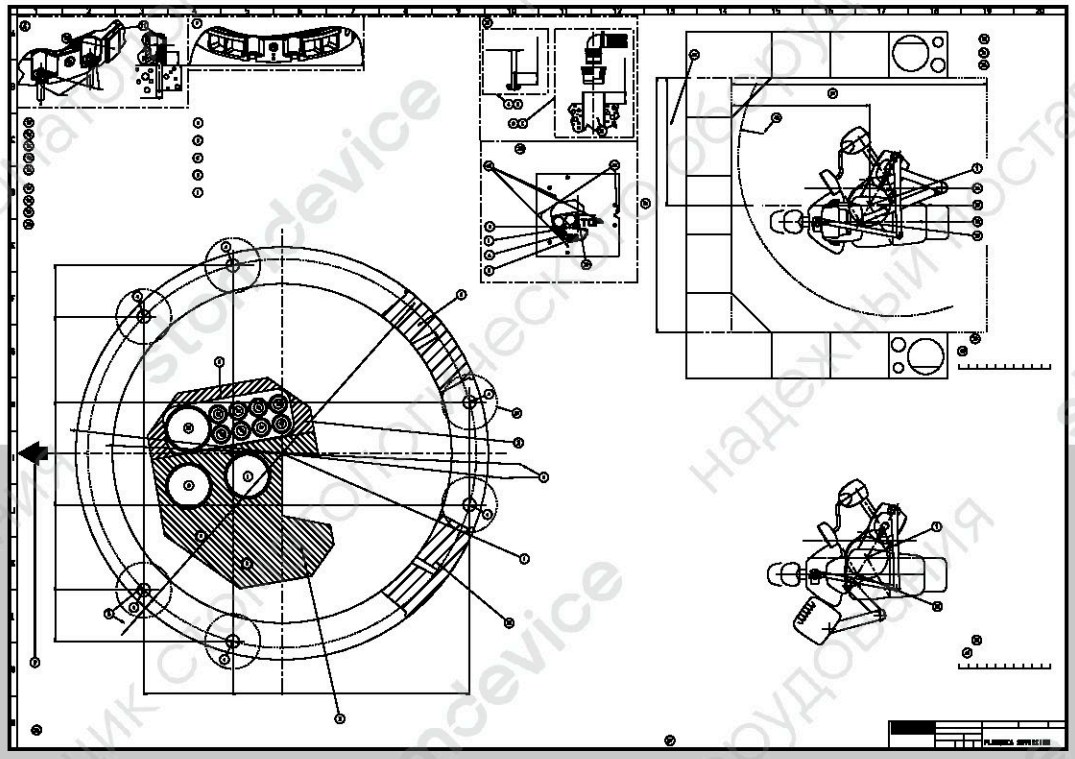
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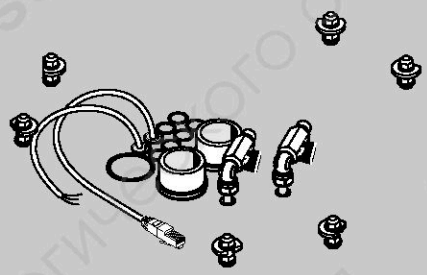
The unit must be secured to the floor with the screws prior to operation.

NOTE **If the floor is not finished yet, but will be cast before unit installation, it is recommended to use a support for floor tubing when routing the cables and tubes. See section 5.1 "Using the support for floor tubing" on page 16.**

NOTE **The concrete or stone floor must be 50 mm (2 in.) thick. The concrete strength must be type C20/25-C50/60 (According standard EN 206-1:2000), non-cracked concrete. Otherwise the installation plate must be used. The installation plate must also be used with wooden floor or similar. Refer to section 5.2 "Attaching the installation plate to the floor" on page 18.**

The dental unit will be positioned according to the instructions given in installation pattern supplied with the dental unit.





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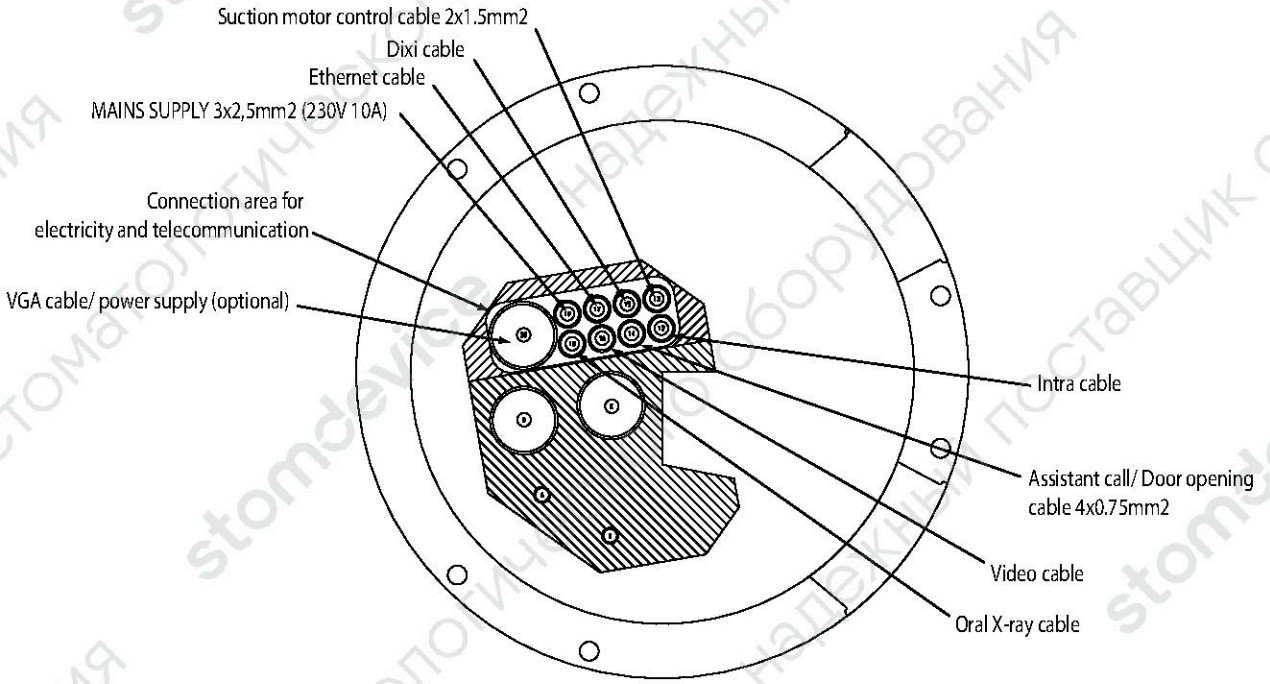
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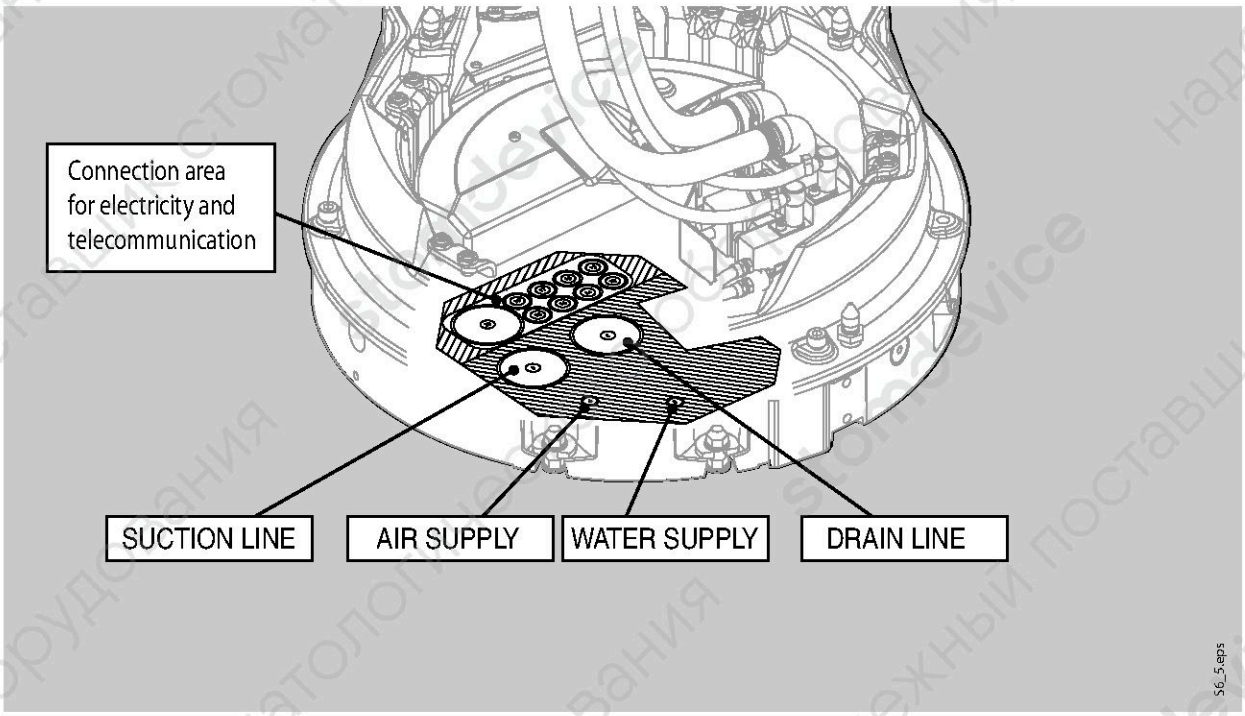
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In the case that the optional separate connection case is used, the unit must be positioned so that the case covers the service tubes coming from the floor into the unit. Attach the cuspidor to the floor before installing the connection case. For installing the optional connection case refer to section 7 “INSTALLING THE SEPARATE CONNECTION CASE (OPTIONAL)”.

Cut the water/air and suction/drain tubes that come from the floor so that they extend 25…50 mm (1…2 in.) from the floor. Connect the water/air angle nipples delivered with the unit to the water and air tubes. Either thread the tubes and screw the angle nipples to the tubes or solder the angle nipples directly to the tubes. If you screw the angle nipples to the tubes wrap sealing tape round the threads.

The cables must be located on the electricity and telecommunication area. The drain/suction tubes as well as air and water tubes must be on the areas marked to the figure shown below.



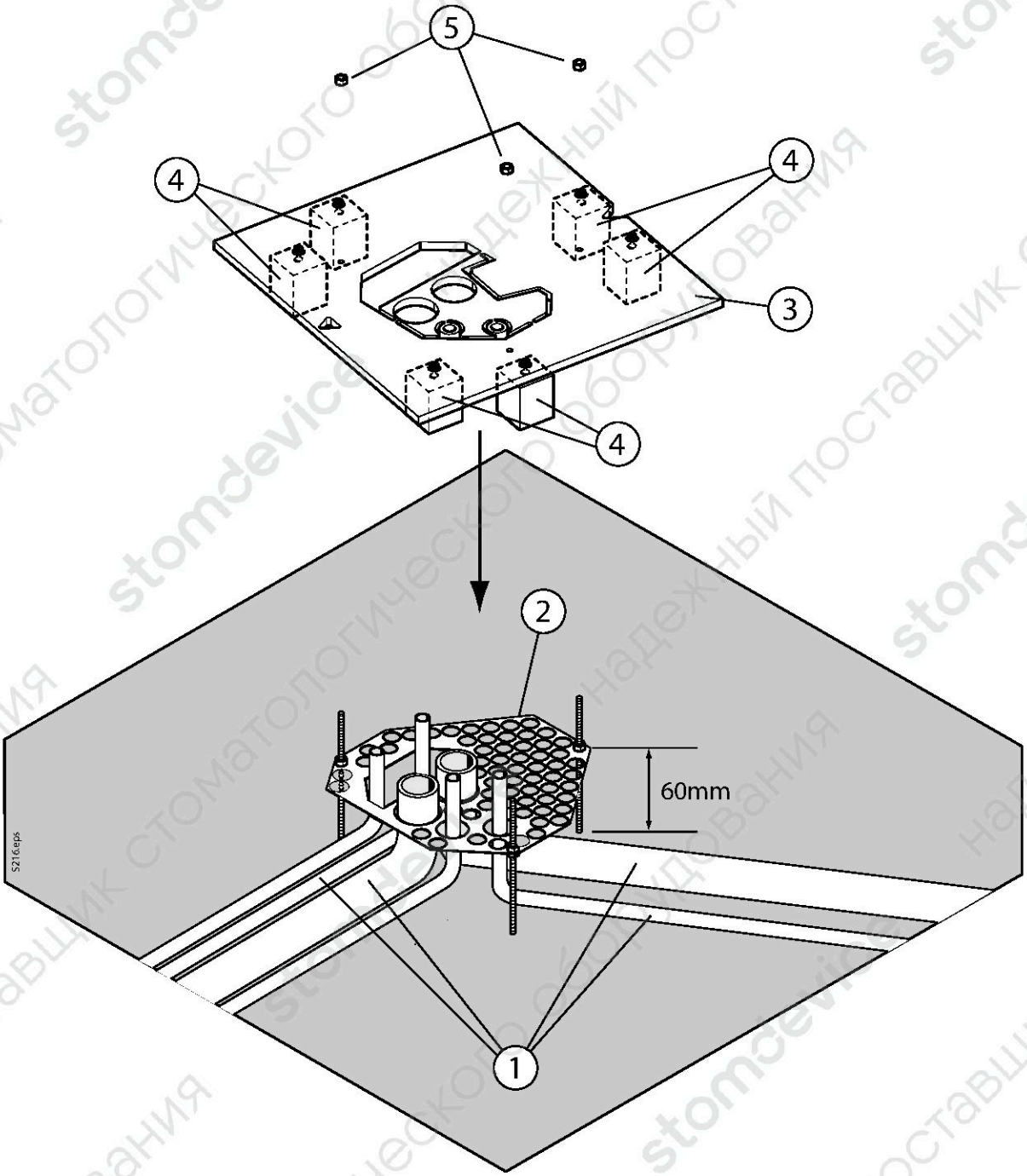


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5.1 Using the support for floor tubing

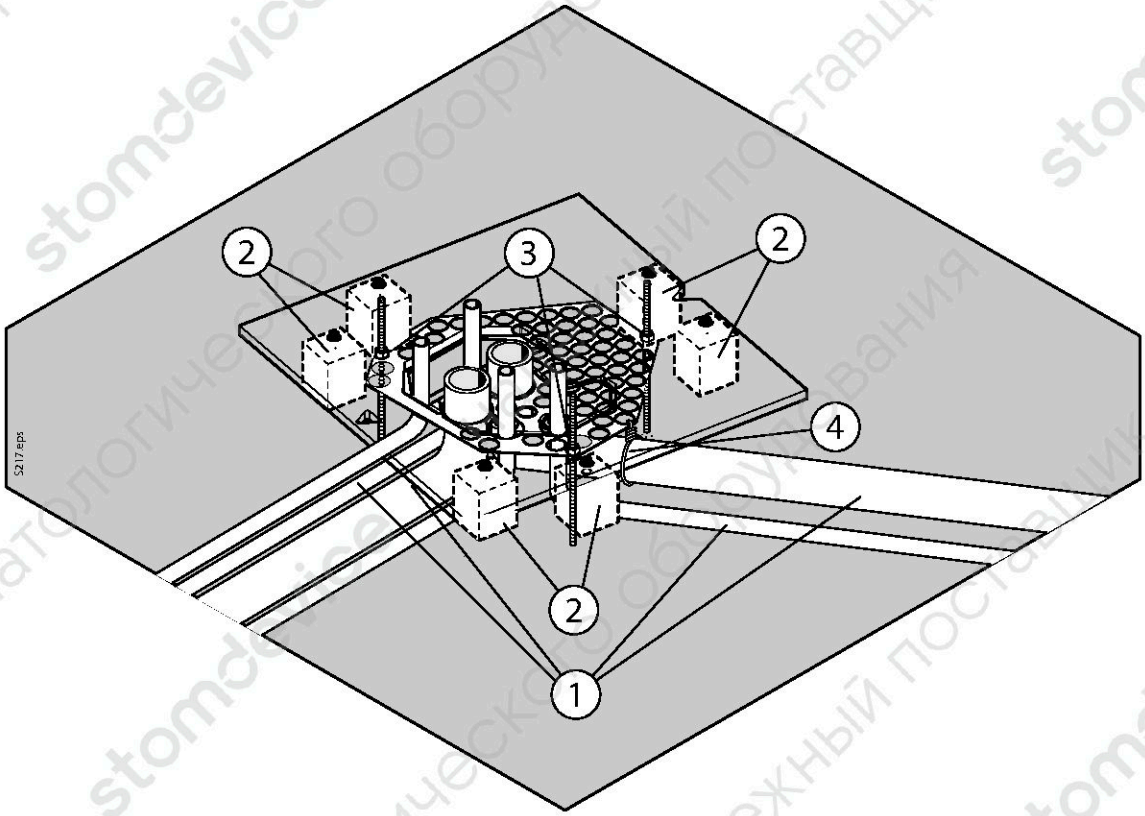
Arrange the dental unit tubes and cables coming from the floor (1). Position the support plate over the tubes/cables so that the tubes/cables are routed through the holes of the support plate assembly (2). Place the plywood template assembly over the tube support (3). Make sure that the wood blocks that shows the security area do not hit the tubes/cables (4). Attach the plywood assembly to the support plate screws with attachment nuts (5).



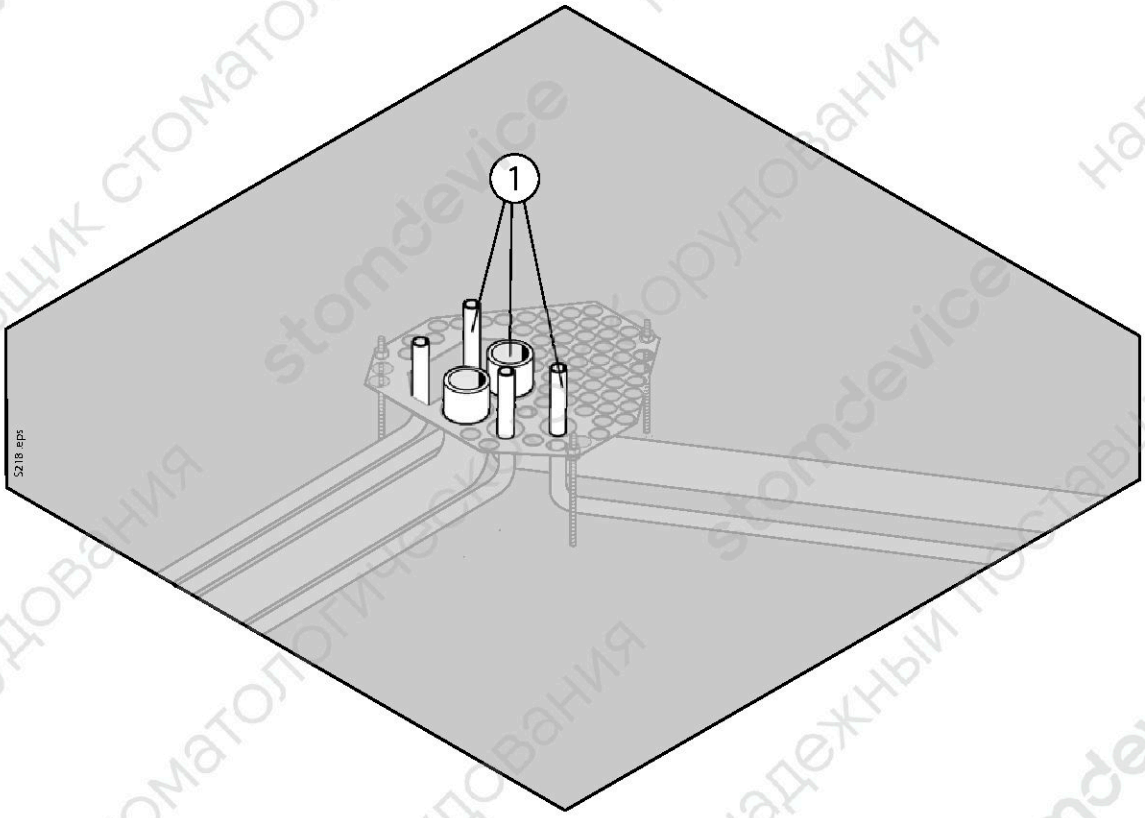
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Make sure that the tubes/cables are not in the base attachment area (1), i.e. the wood blocks do not hit the tubes/cables (2). Remove the plywood template assembly. Cut the support plate screws so that they do not reach above the floor casting that will be made (80 mm, 3.1 in.) (3). Attach the tubes/cables to the support plate with e.g, wire (4).



Cast the 80 mm (3.1 in.) thick floor casting. Cut the tubes that come from the floor so that they extend 25…50 mm (1…2 in.) from the floor (1).



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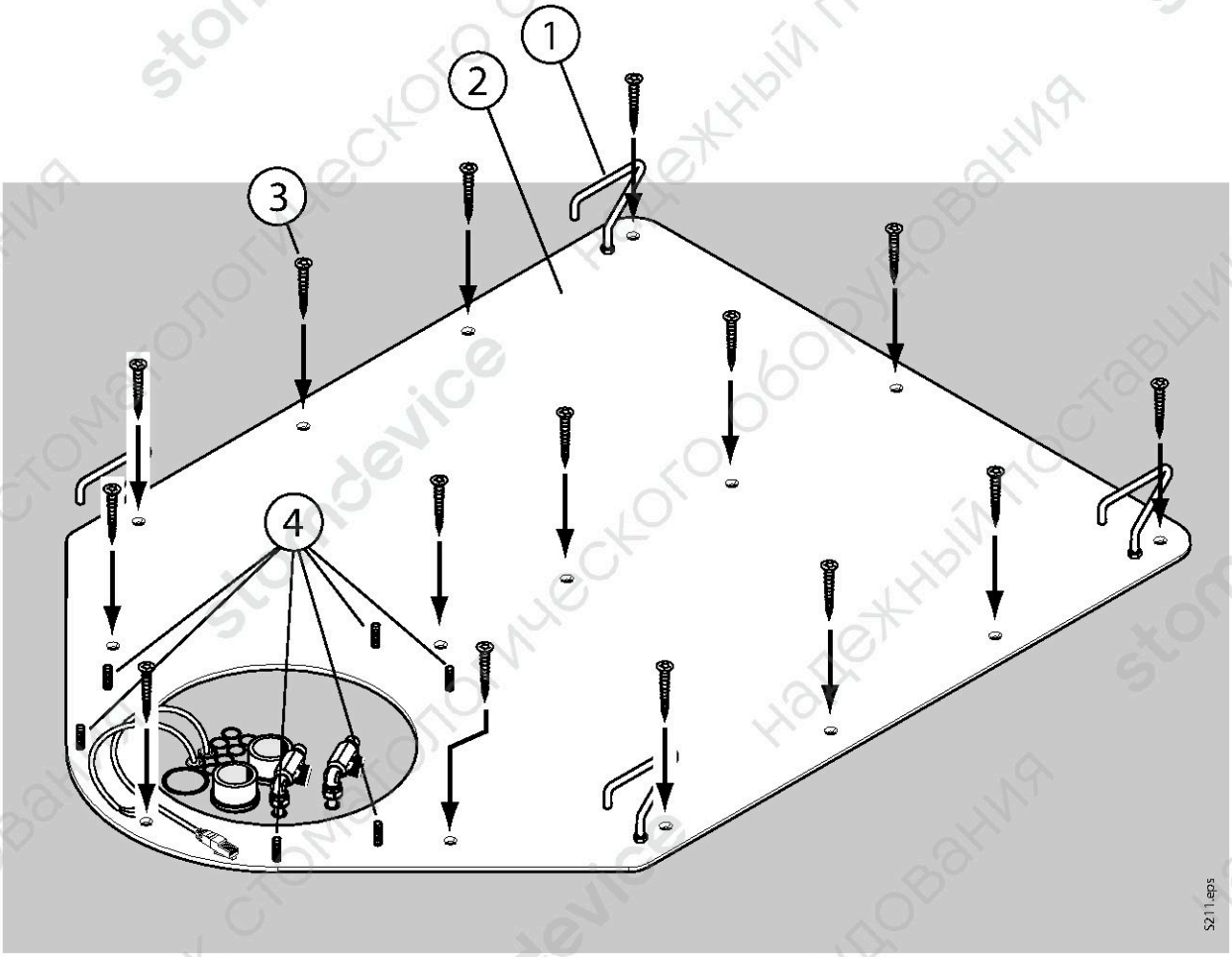
5.2 Attaching the installation plate to the floor

Installation plate

Attach the handles (1) to the installation plate (2) and move the plate to the installation place.

Attach the plate to the floor with 6x40 torx screws (3).

Attach the base attachment screws to the installation plate (4). Install the cuspidor to the plate according to the instructions given in section 6 “INSTALLING THE CUSPIDOR”.



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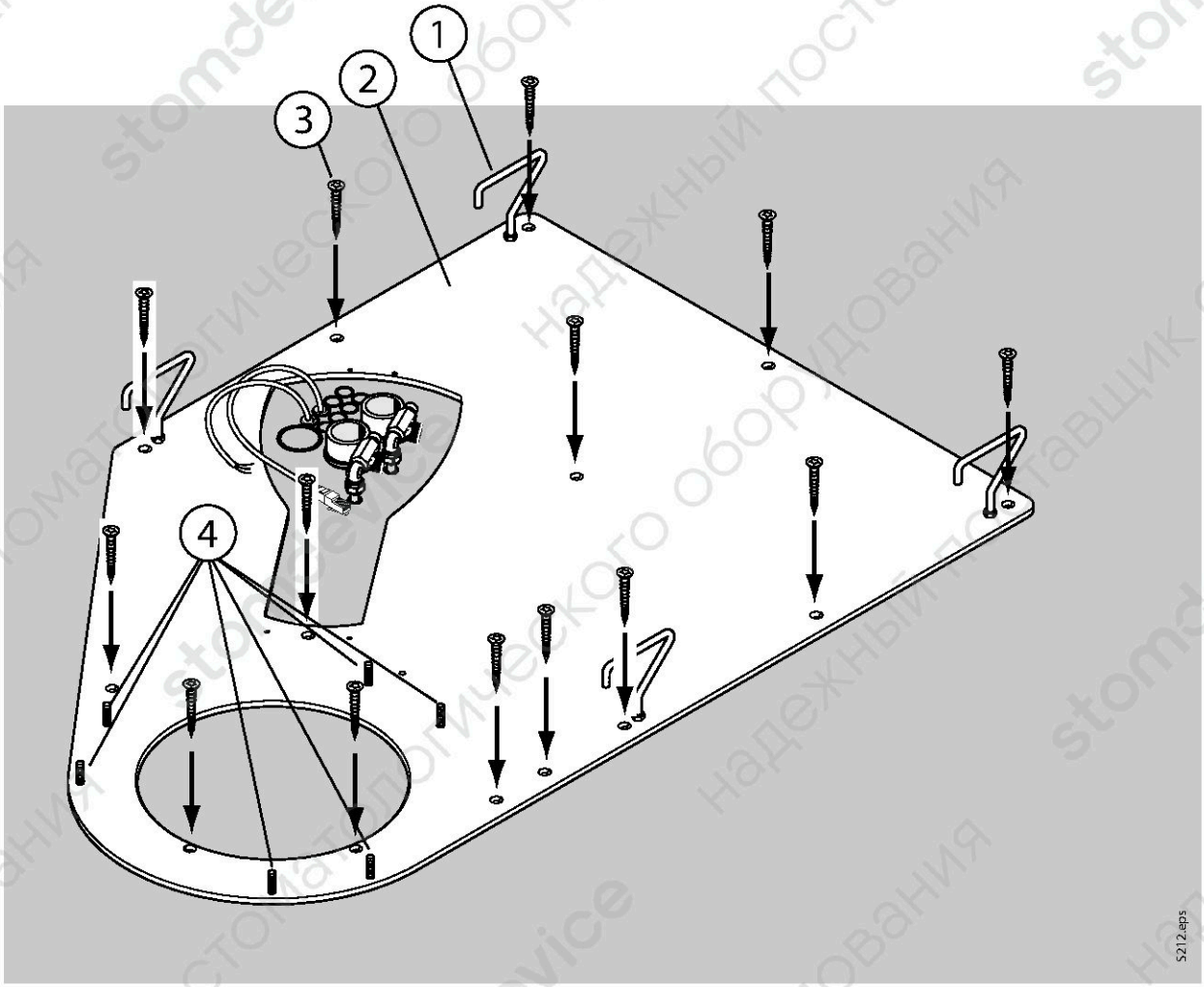
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Installation plate with separate connection case

Attach the handles (1) to the installation plate (2) and move the plate to the installation place.

Attach the plate to the floor with 6x40 torx screws (3).

Attach the base attachment screws to the installation plate (4). Install the cuspidor to the plate according to the instructions given in section 6 “INSTALLING THE CUSPIDOR”.



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6 INSTALLING THE CUSPIDOR

6.1 Attaching the cuspidor to the floor

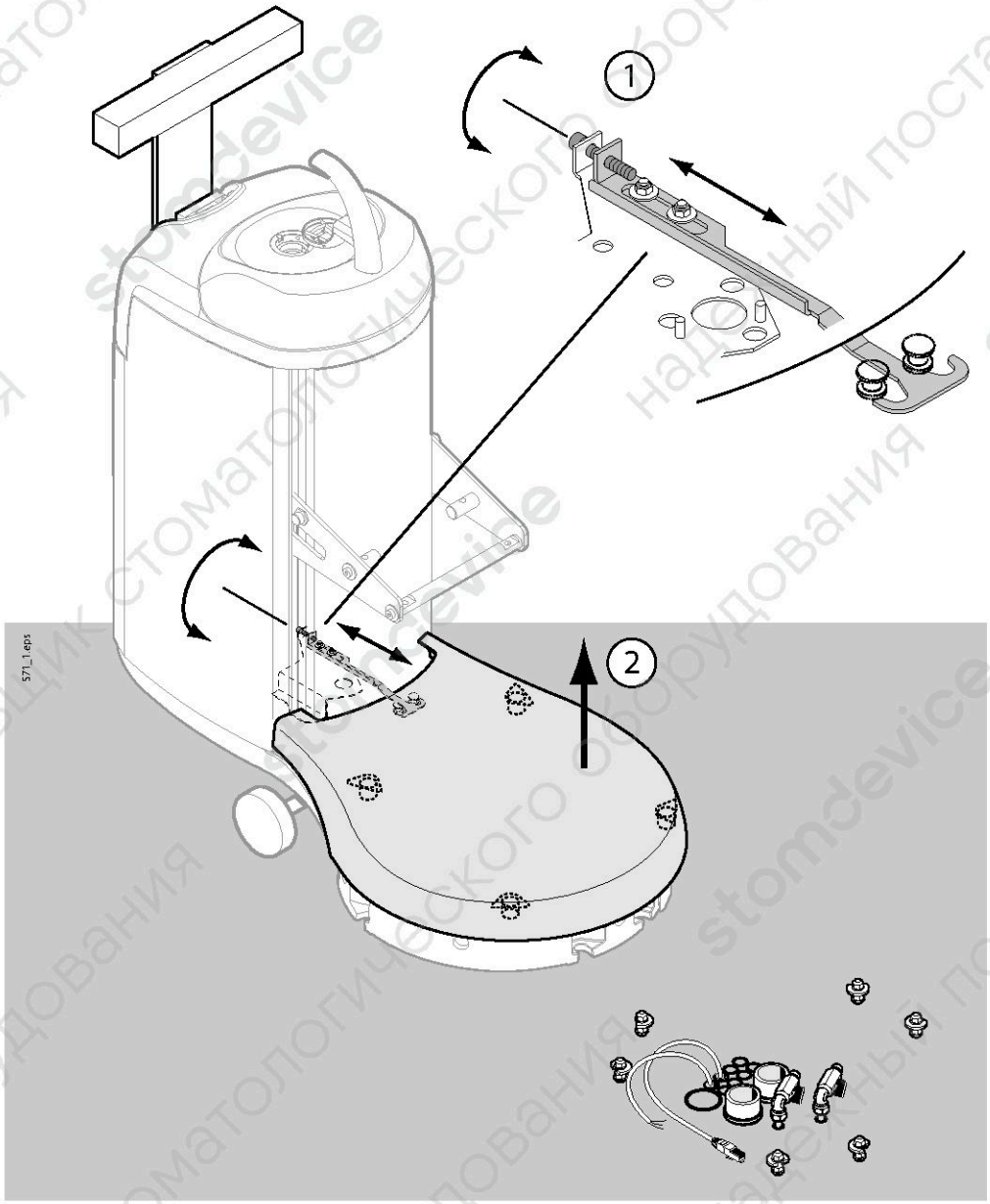
NOTE **The cuspidor must be attached to the floor using Sormat SB 8-20 anchors supplied with the dental unit. Do not use any other anchors. Follow the anchor manufacturer's instructions on how to attachment the anchors.**

CAUTION ***The cuspidor assembly is heavy and must be moved with appropriate transport device. Special care and caution must be exercised during cuspidor installation.***

Unpack the cuspidor from its package.

Slide the dental unit carefully to the rear by pulling from the handle. Carefully let the unit wheels touch the floor and wheel the dental unit near the installation place.

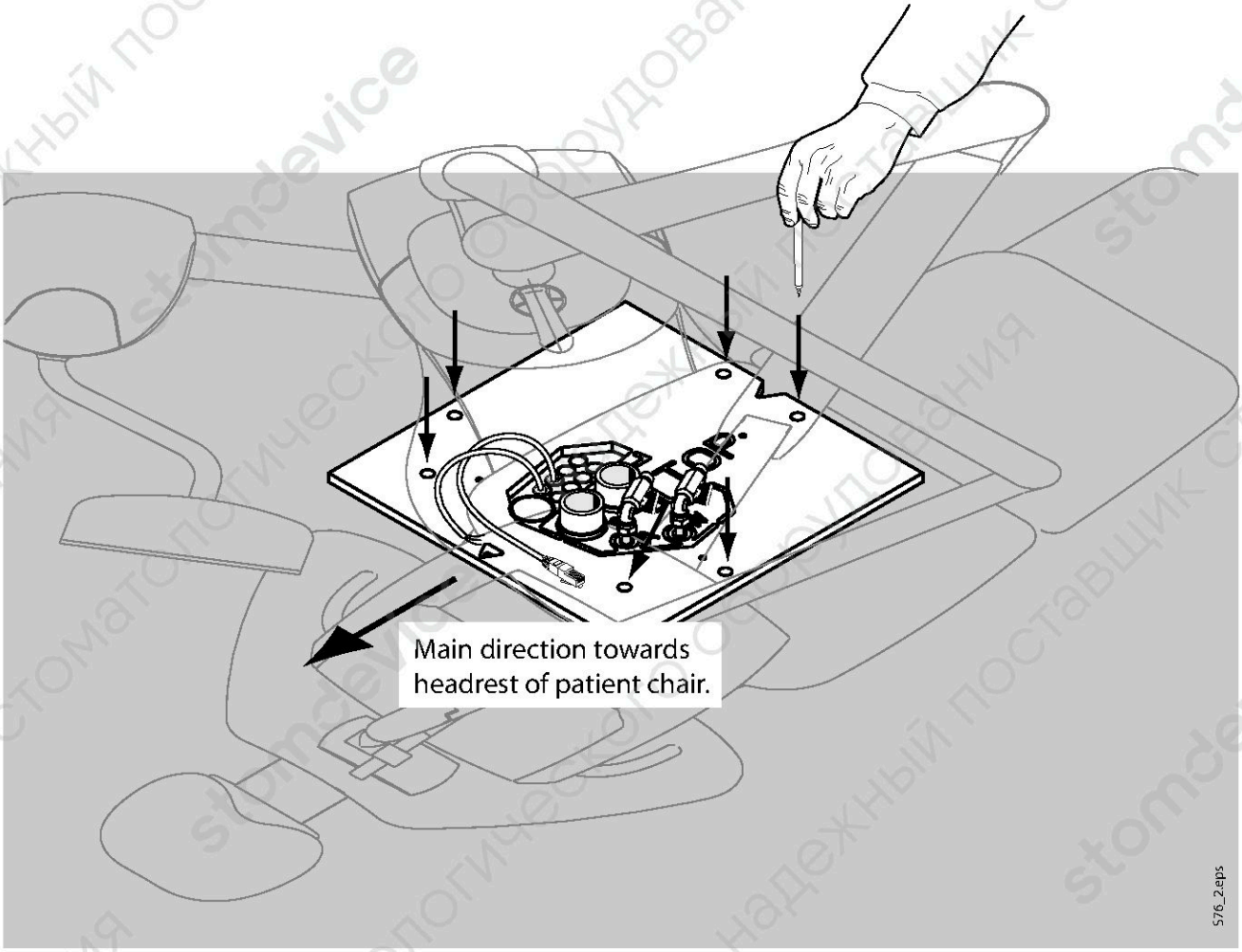
The base cover attachment mechanism is located inside the cuspidor. Rotate the mechanism screw using a 6 mm Allen key to move the mechanism arm and to release the cover attachment (1). Pull the cover away from its position (2).



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Use the installation pattern or plywood template and mark the positions of the attachment holes.



NOTE **When determining the dental unit's position notice that the openings on the base frame point to patient chair legrest. The direction of the cuspidor is not important during the installation, only the base direction.**

NOTE **Dental unit with fixed base: the cuspidor installation position (right-handed/left-handed) can be changed after the base is attached to the floor. Pay attention to this when determining the positions of the attachment holes. The cuspidor position change is described in section 6.2 "Dental units with fixed base: Changing the cuspidor installation position (right-handed/left-handed)".**

Drill 14 mm (0.55 in.) holes until the required depth of 55 mm (2.2 in.).

Clean the dust caused by the drilling from the holes with a vacuum cleaner or with pressure air.

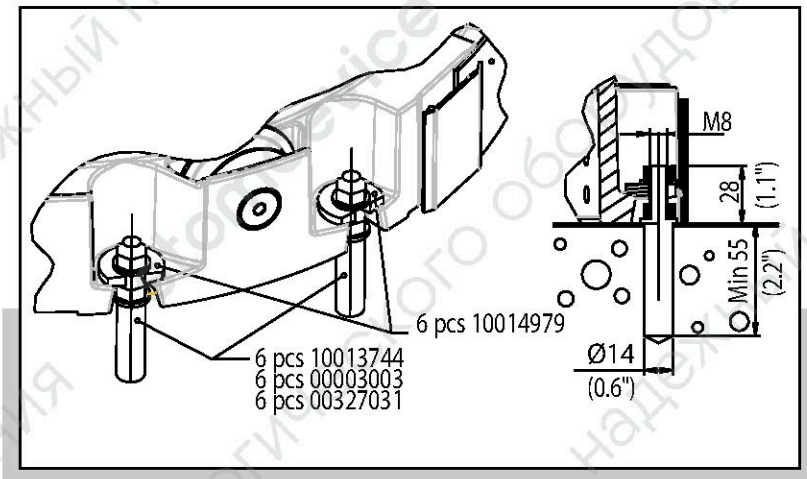
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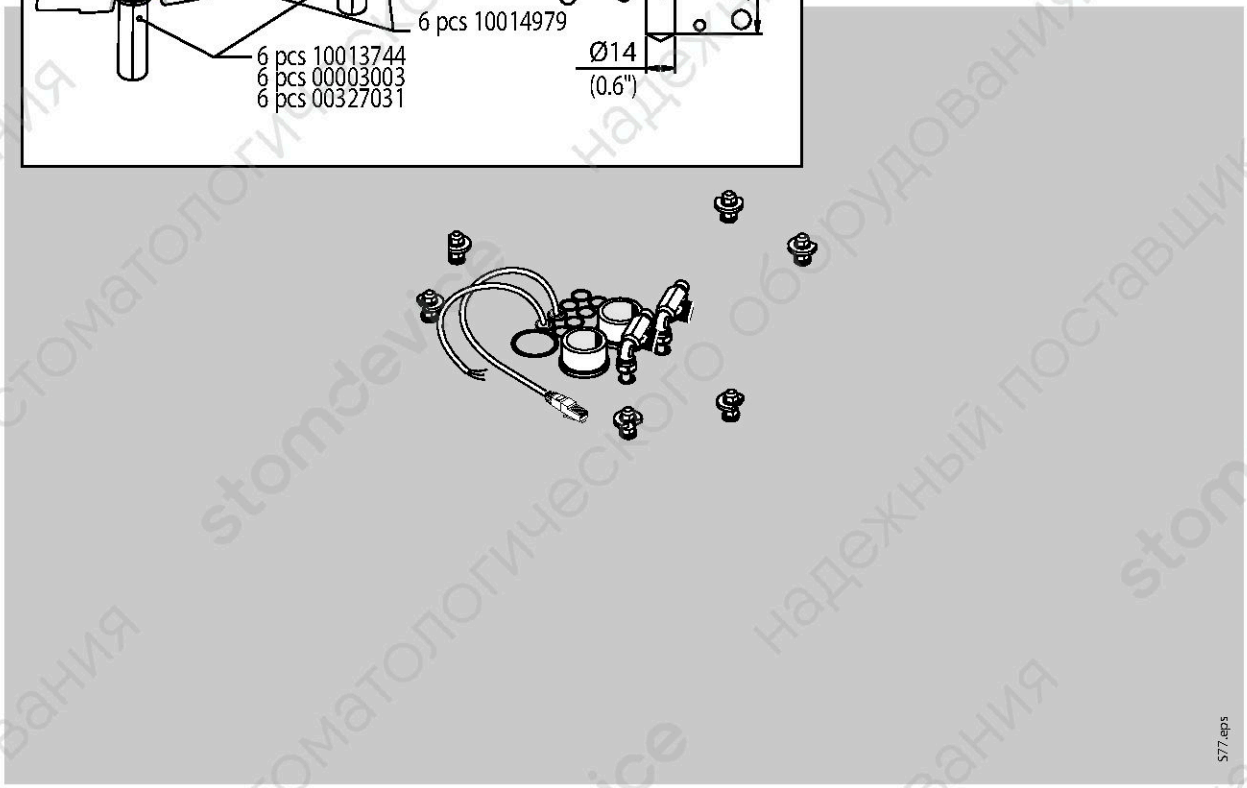
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INSTALLING THE CUSPIDOR

Attach the anchors according to the manufacturer's instructions.

CAUTION IMPORTANT: Tighten the anchors to torque 14 Nm with the torque wrench.



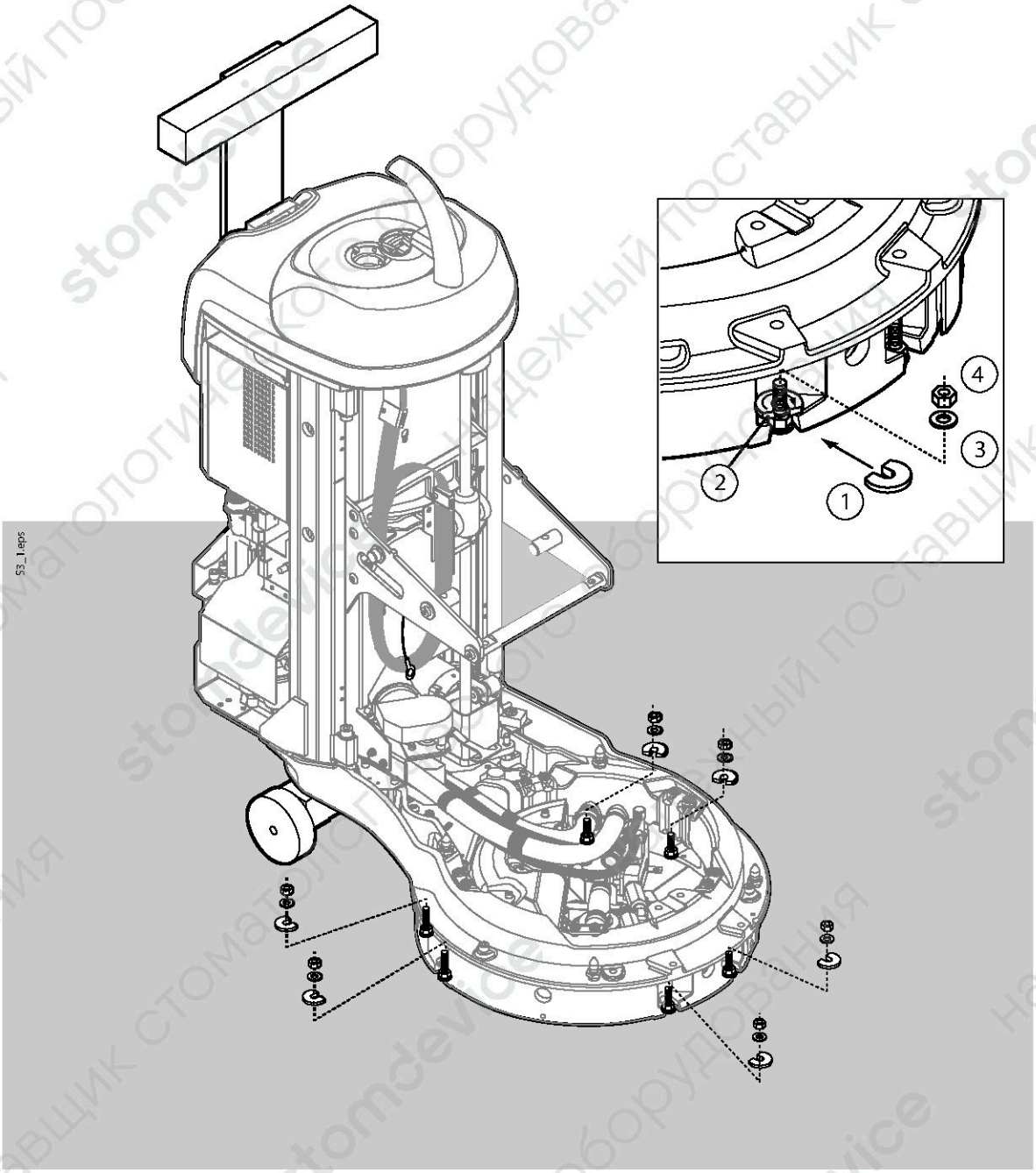


Move the cuspidor to its place. Position the dental unit according to the instructions given in installation pattern supplied with the dental unit. Note, that the openings on the base are in the direction of the chair legrest.

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Insert the lock washers to the anchors (1) and rotate them to the position shown on the figure below (2). Insert the washers (3) and nuts (4).



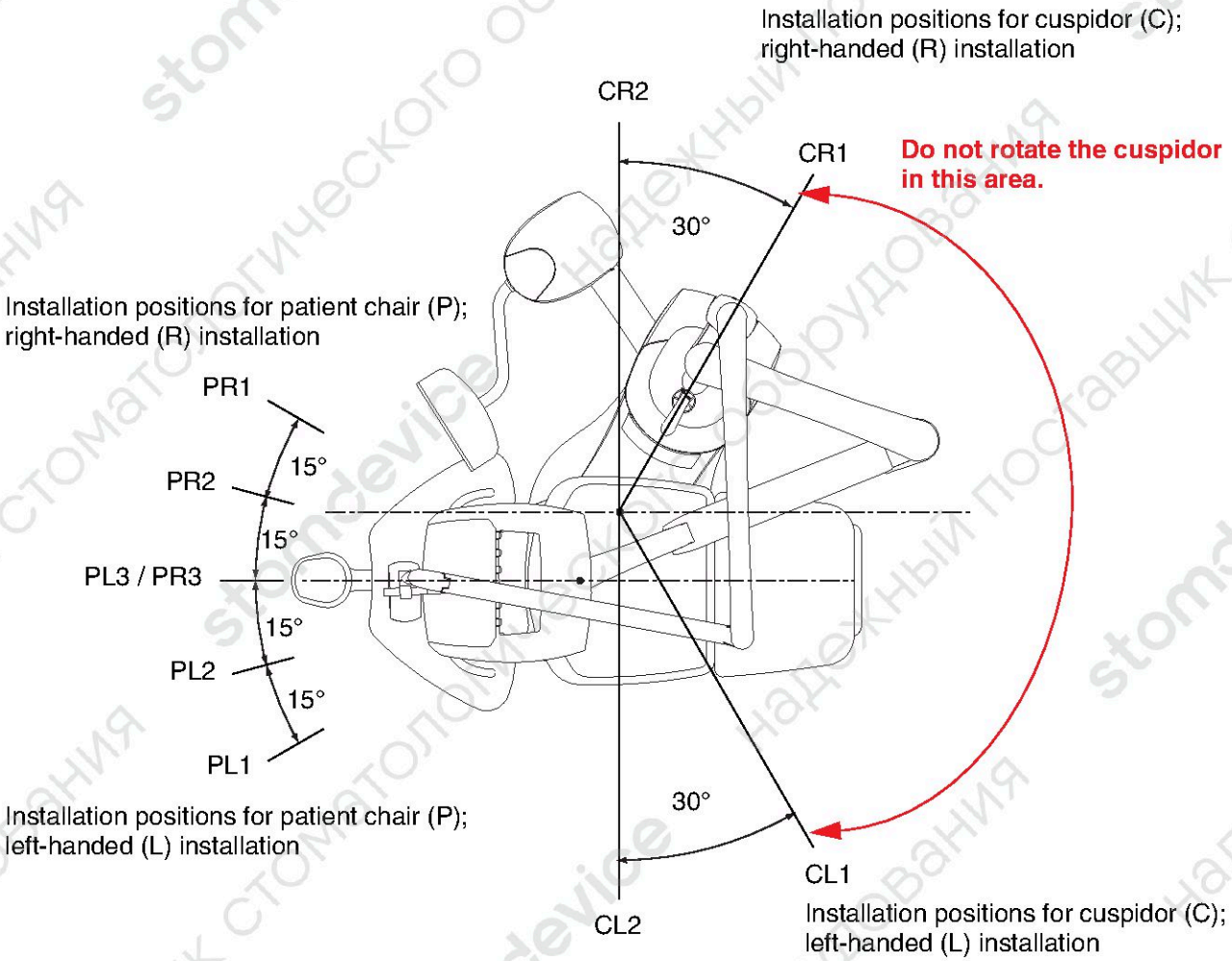
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6.2 Dental units with fixed base: Changing the cuspidor installation position (right-handed/left-handed)

The dental unit is fully symmetrical enabling either right-handed or left-handed installation. The angle of the cuspidor can be chosen from four predetermined positions, and the angle of the patient chair can be chosen from six predetermined positions (3 positions / handedness). All positions are locked during installation and can not be changed during operation.

The dental unit installation positions are presented below:



NOTE **The cuspidor is in CR1 position in the transport packing.**

NOTE **Change the cuspidor position before removing the transport handles.**

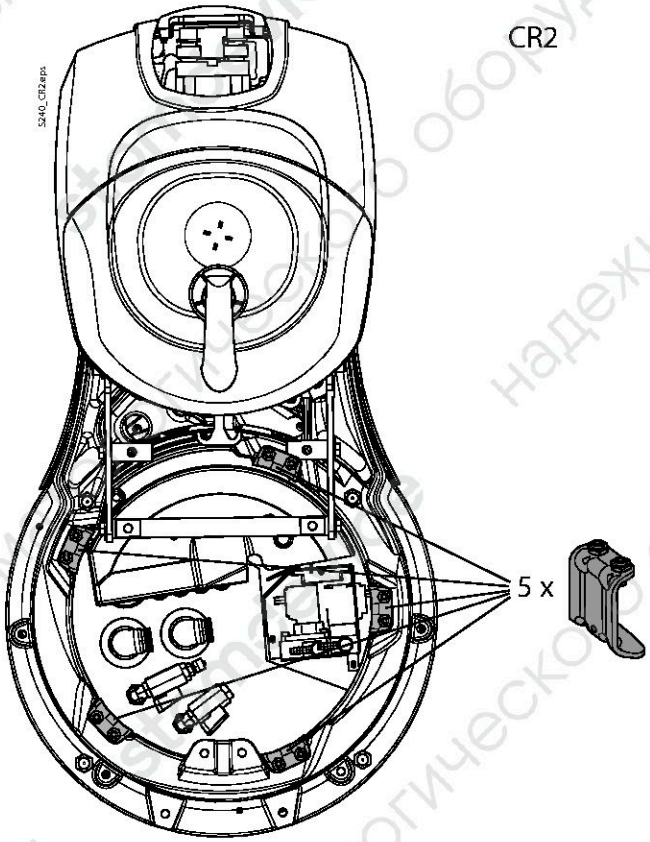
CAUTION ***Aways rotate the cuspidor from right-handed to left-handed position COUNTERCLOCKWISE and vice versa. DO NOT ROTATE THE CUSPIDOR IN AREA MARKED TO THE FIGURE ABOVE. Rotate the cuspidor up 240°.***

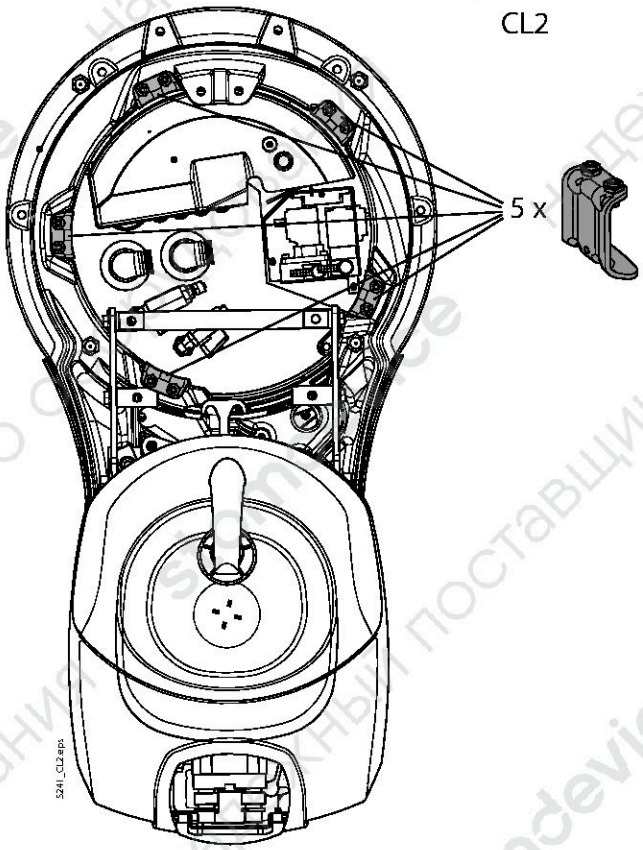
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Cuspidor

In the positions CR2 and CL2 the cuspidor is attached to the base with five metal hooks and ten attachment screws.

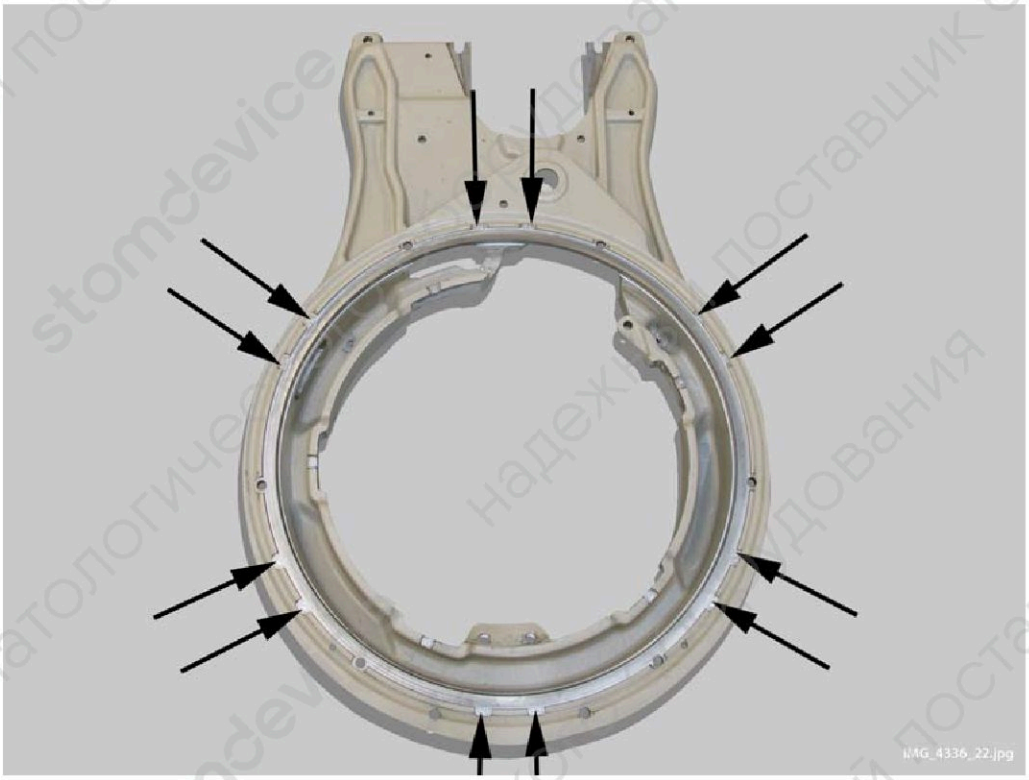




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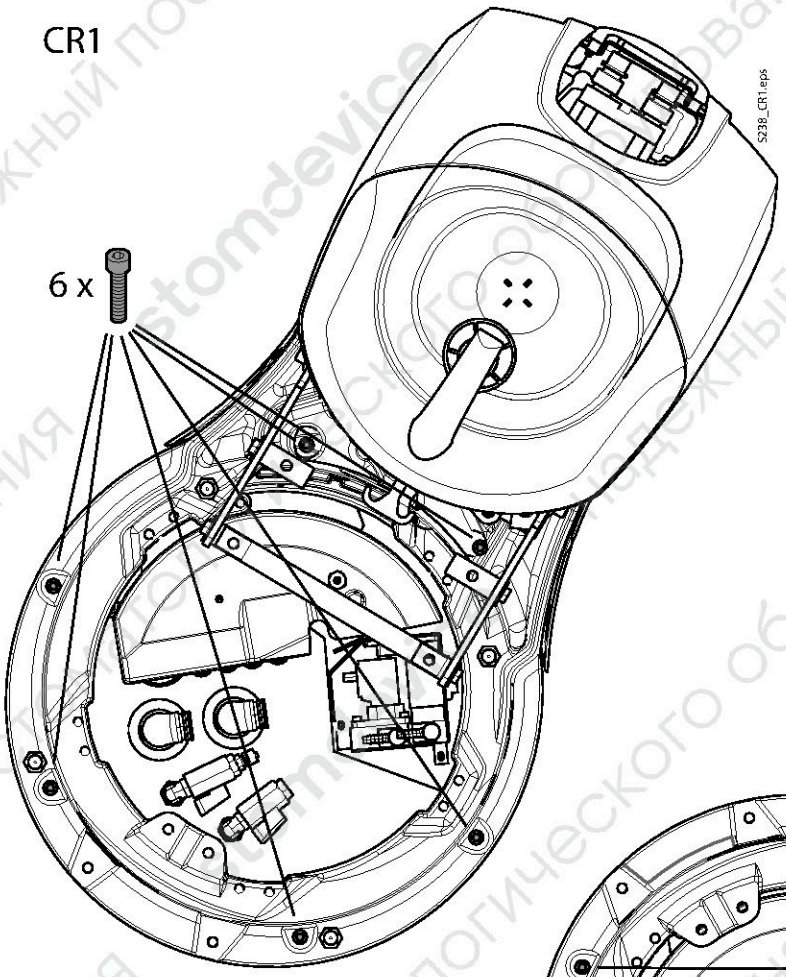
In the figure below the base is shown from below. The arrows indicate the positions of the metal hooks.

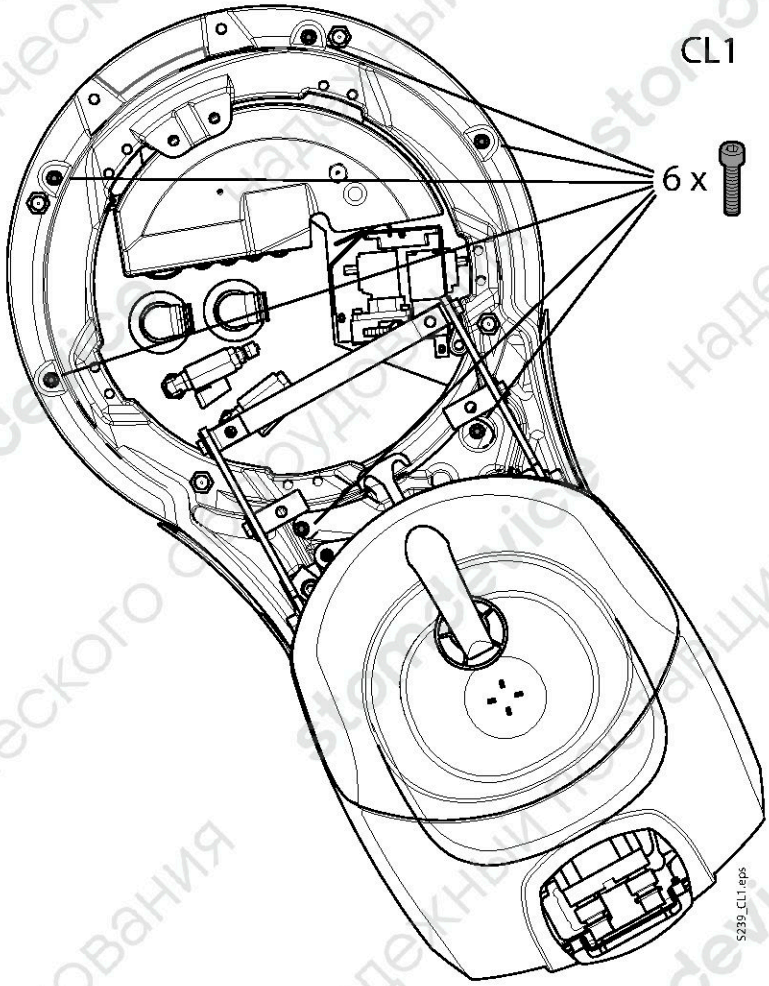


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1. In positions CR1 and CL1 six screws attach the cuspidor to the base (four on the frame and two beside the cuspidor).



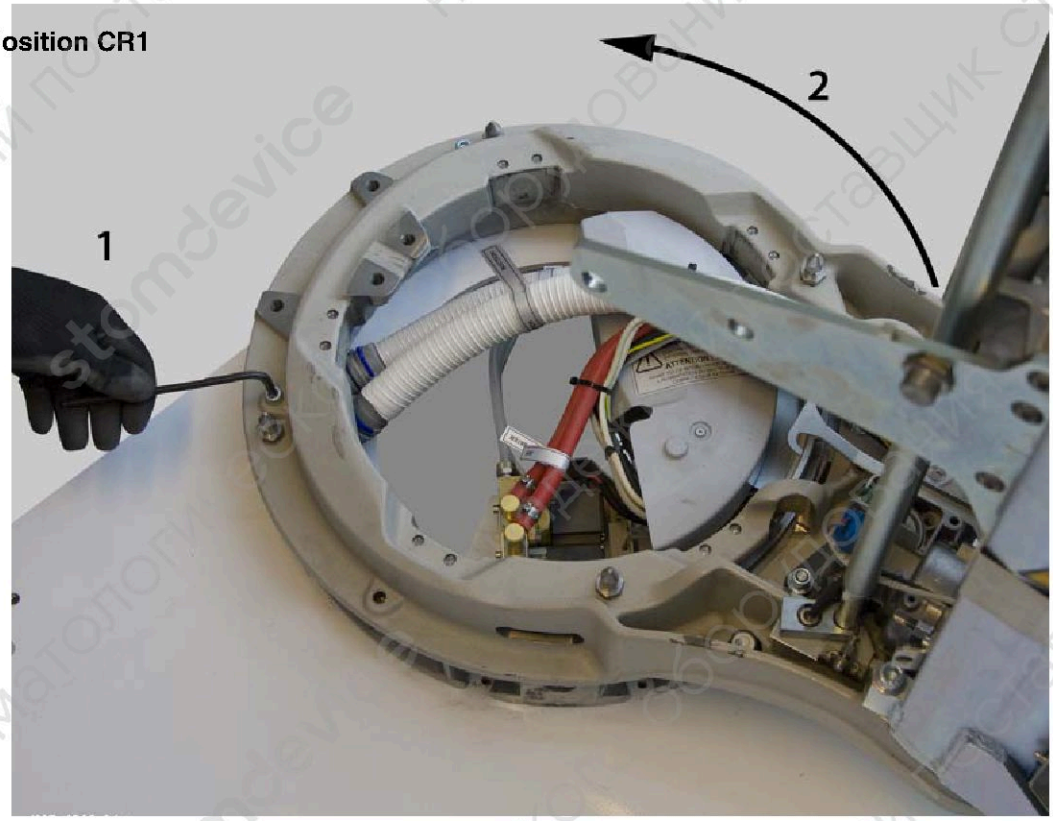


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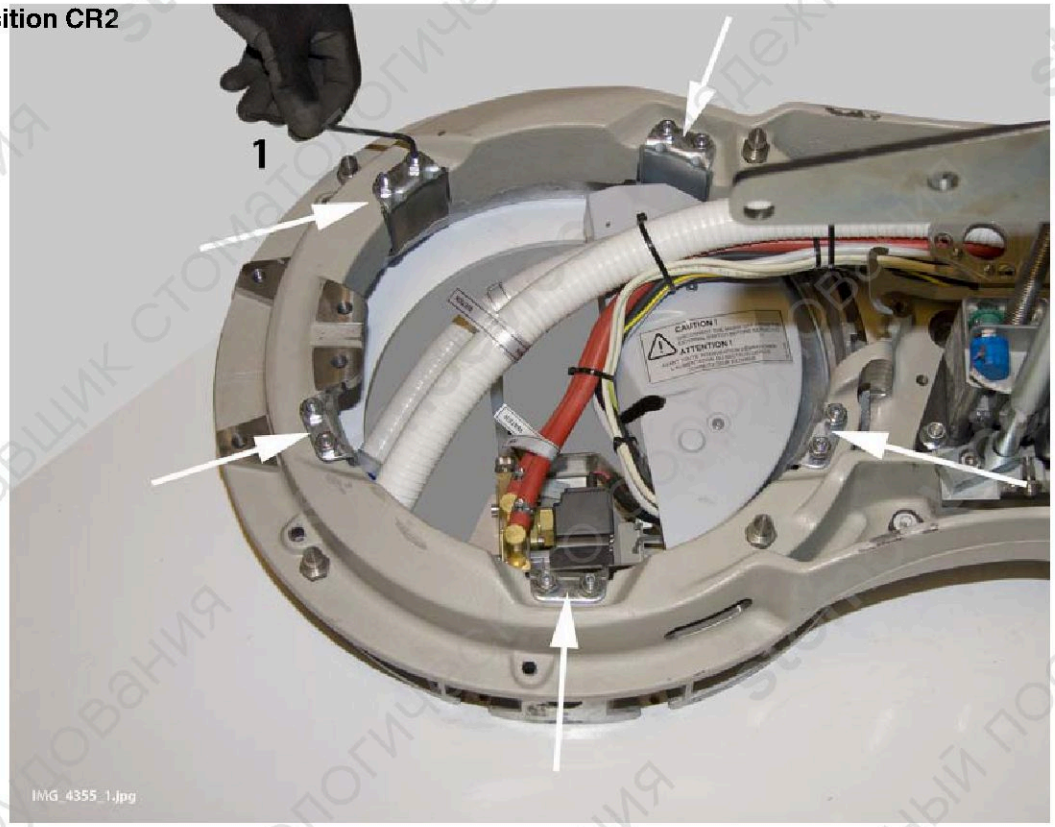
2. Unscrew the screws using a 4 mm Allen key (1) and rotate the cuspidor (2).

Position CR1



3. In CR2 position attach the cuspidor to the base with metal hooks and attachment screws (1).

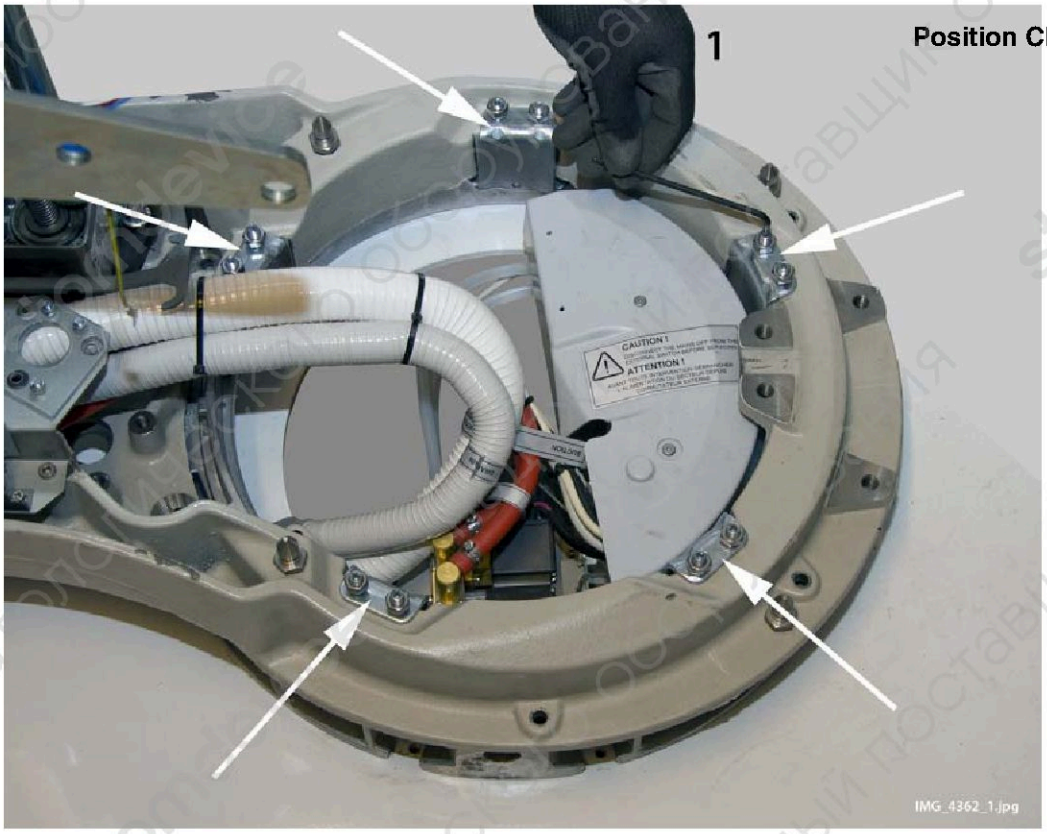
Position CR2



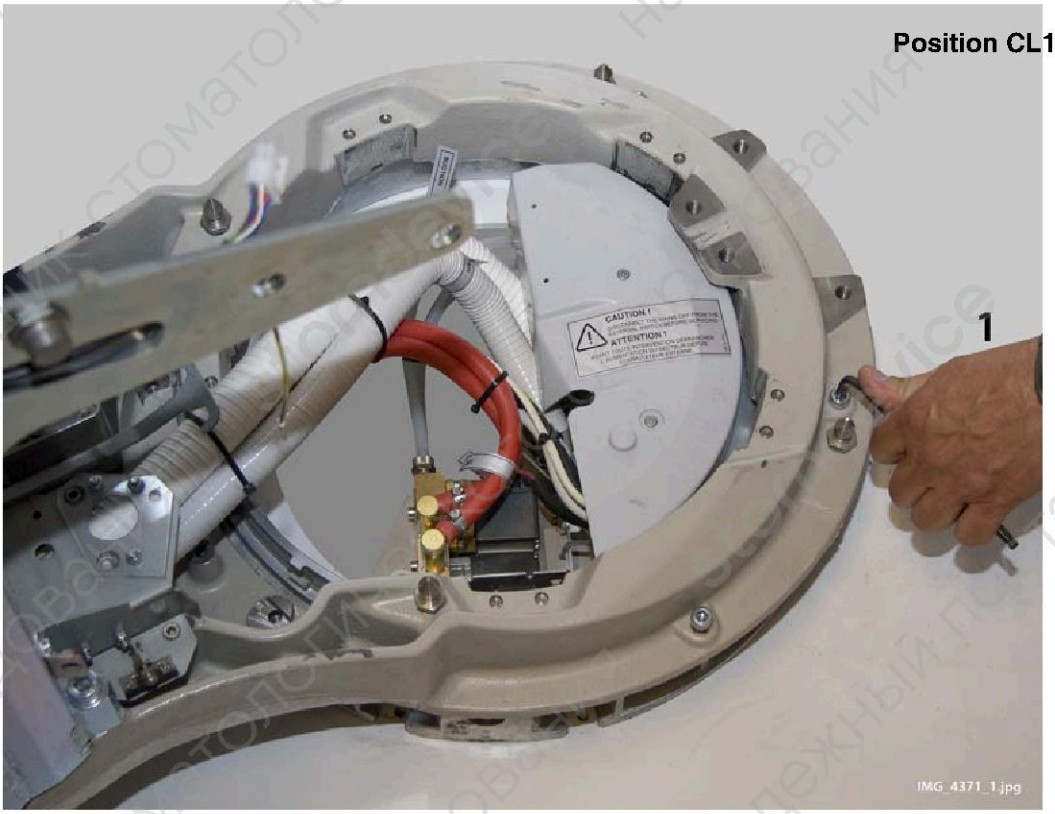
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4. In CR2 position attach the cuspidor to the base with metal hooks and attachment screws (1).



5. In position CL1 attach the cuspidor to the base with six attachment screws (four on the frame and two beside the cuspidor).



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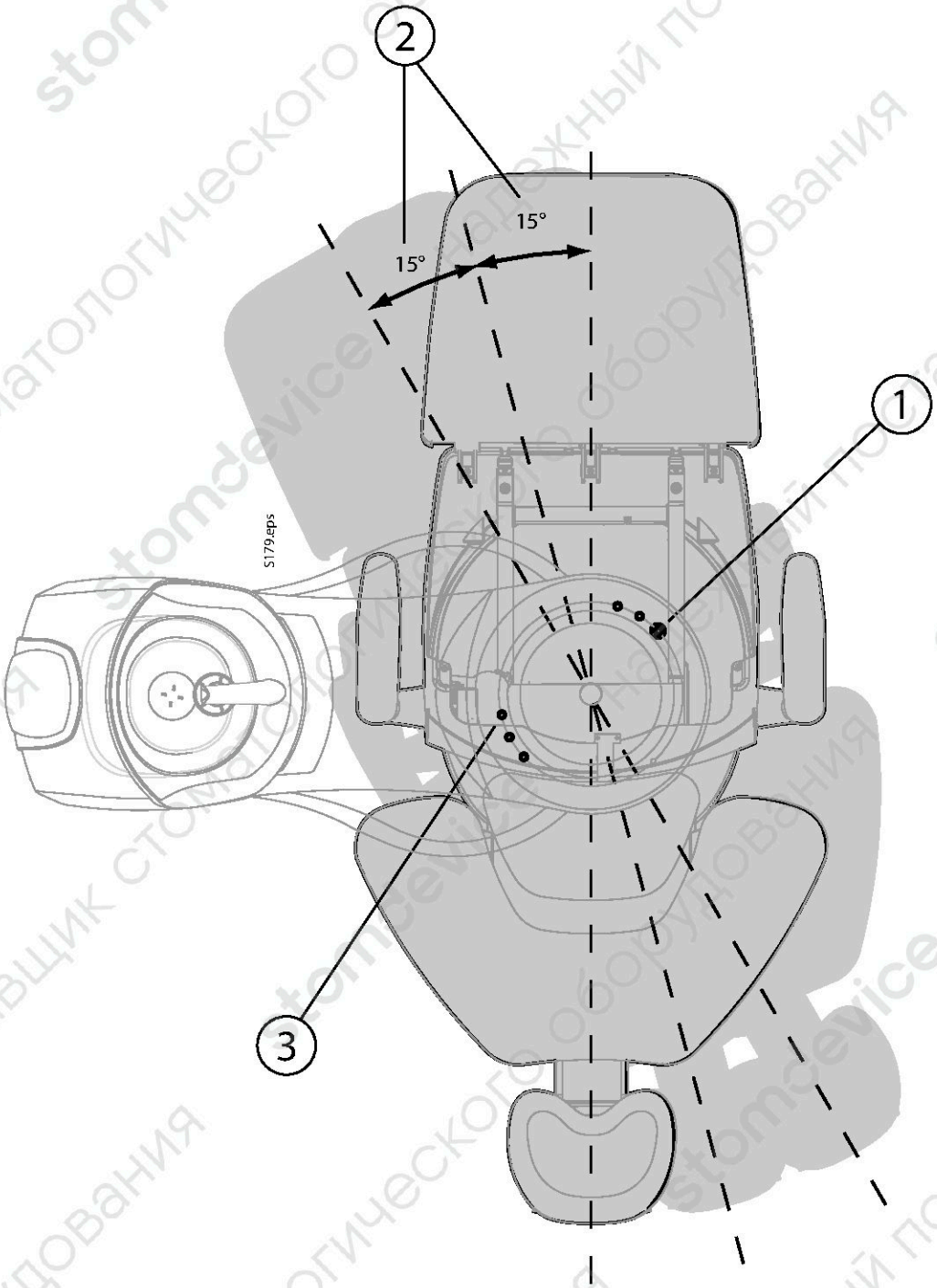
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Patient chair

The angle of the patient chair can be chosen from six predetermined positions (3 positions / handedness). You can change the patient chair position as follows.

Unscrew the seat rotation locking screw (1). Turn the seat to the desired position (2). Attach the rotation locking screw (1).

After changing the cuspidor installation position you also have to change the patient chair position 180° (±15°) (3).



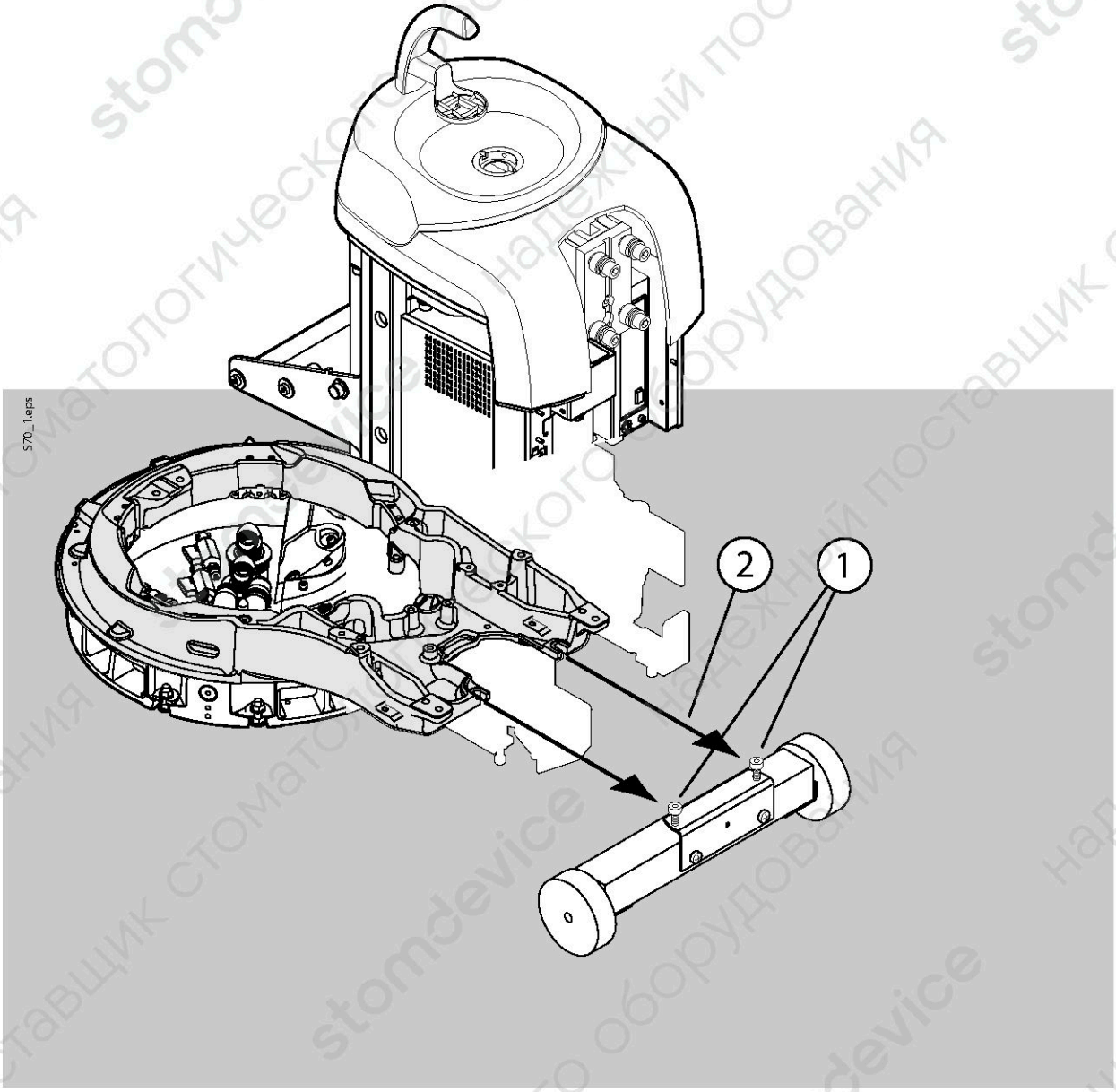
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6.3 Removing the transport handle and wheels

Loosen the transport handle attachment screws and remove the handle. **Do not loosen the screws too much, otherwise the attachment nuts will drop into the cuspidor.**

Loosen the attachment screws of the wheels (1) and detach them from below the cuspidor (2).



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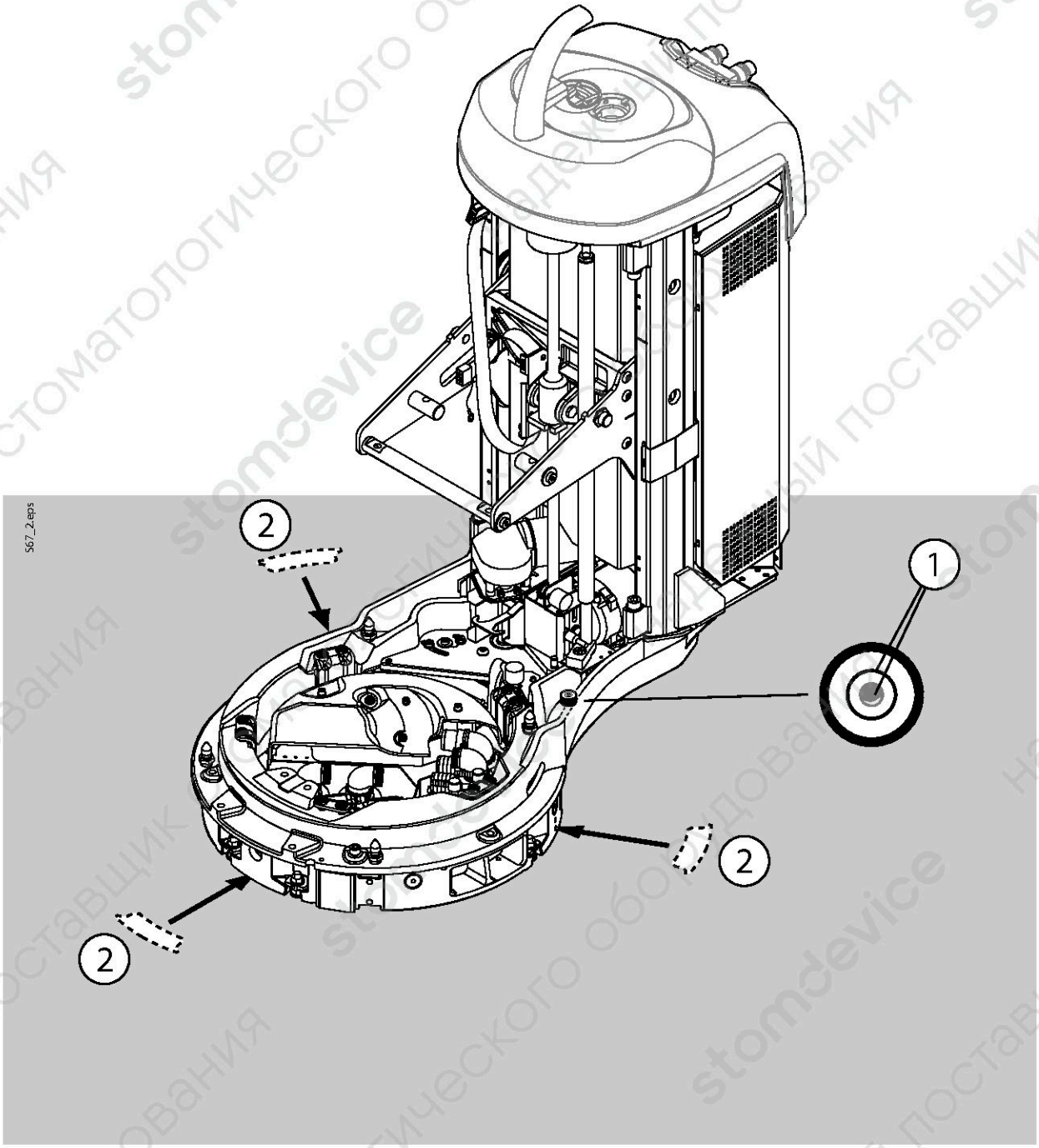
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6.4 Checking the vertical position of the cuspidor

Check the vertical position of the cuspidor with the small round spirit level attached to the base. The air bubble must be inside the black circle (1).

Adjust the cuspidor position as described below, if needed.

The vertical position of the cuspidor is adjusted with adjustment plates supplied with the unit (2). Loosen the adjustment nuts and place the plate(s) between the cuspidor base and floor until the cuspidor is vertical. Re-check the cuspidor position and add more plate(s), if needed.



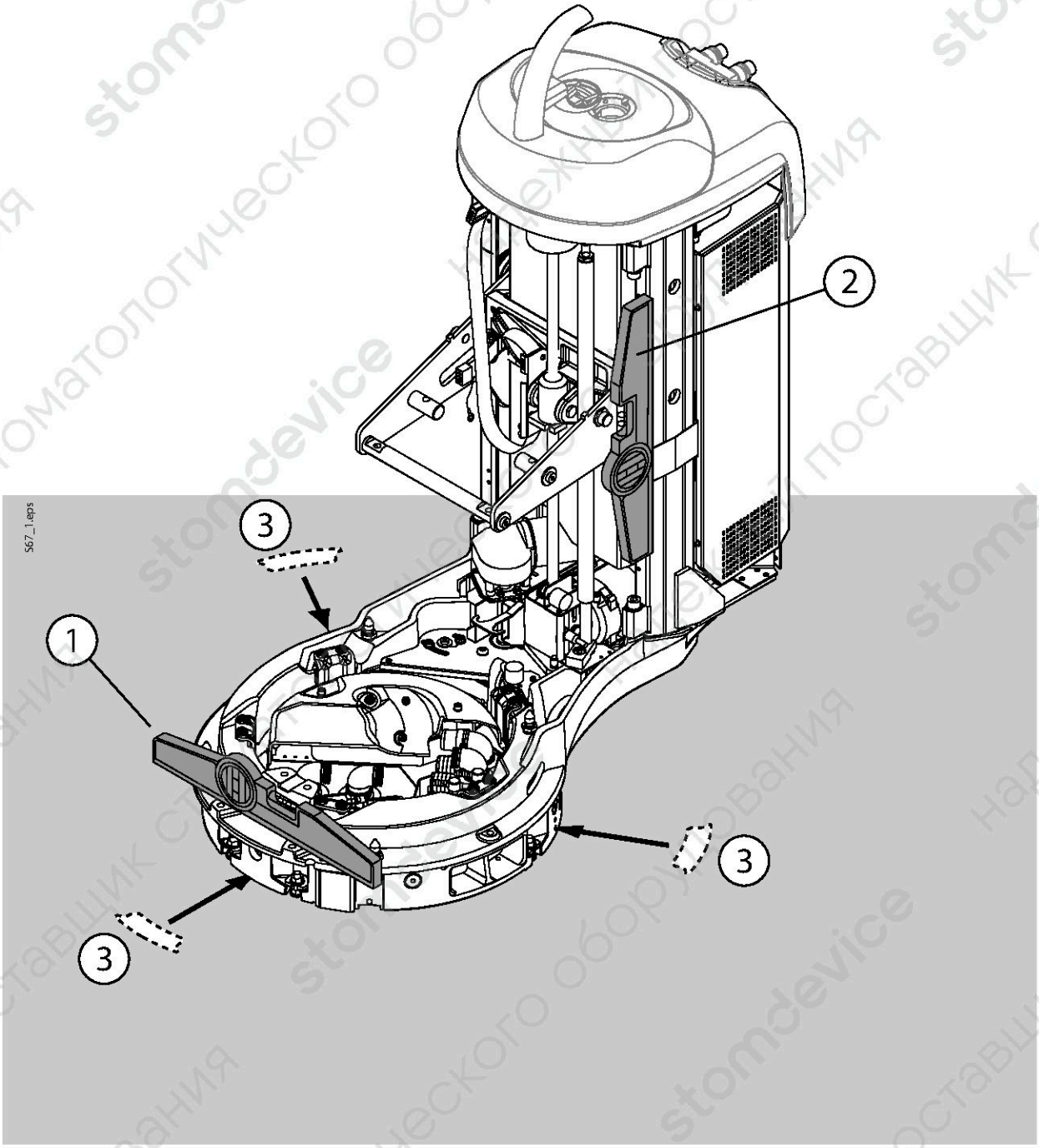
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You can also check the vertical position as follows: Check the vertical position of the cuspidor using a spirit level. Place the spirit level onto the base footing (1) and to the lifting column (2) as shown on the figure below.

Adjust the cuspidor position as described below, if needed.

The vertical position of the cuspidor is adjusted with adjustment plates supplied with the unit (3). Loosen the adjustment nuts and place the plate(s) between the cuspidor base and floor until the cuspidor is vertical. Re-check the cuspidor position and add more plate(s), if needed.



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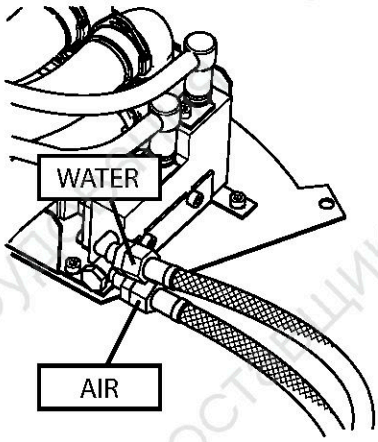
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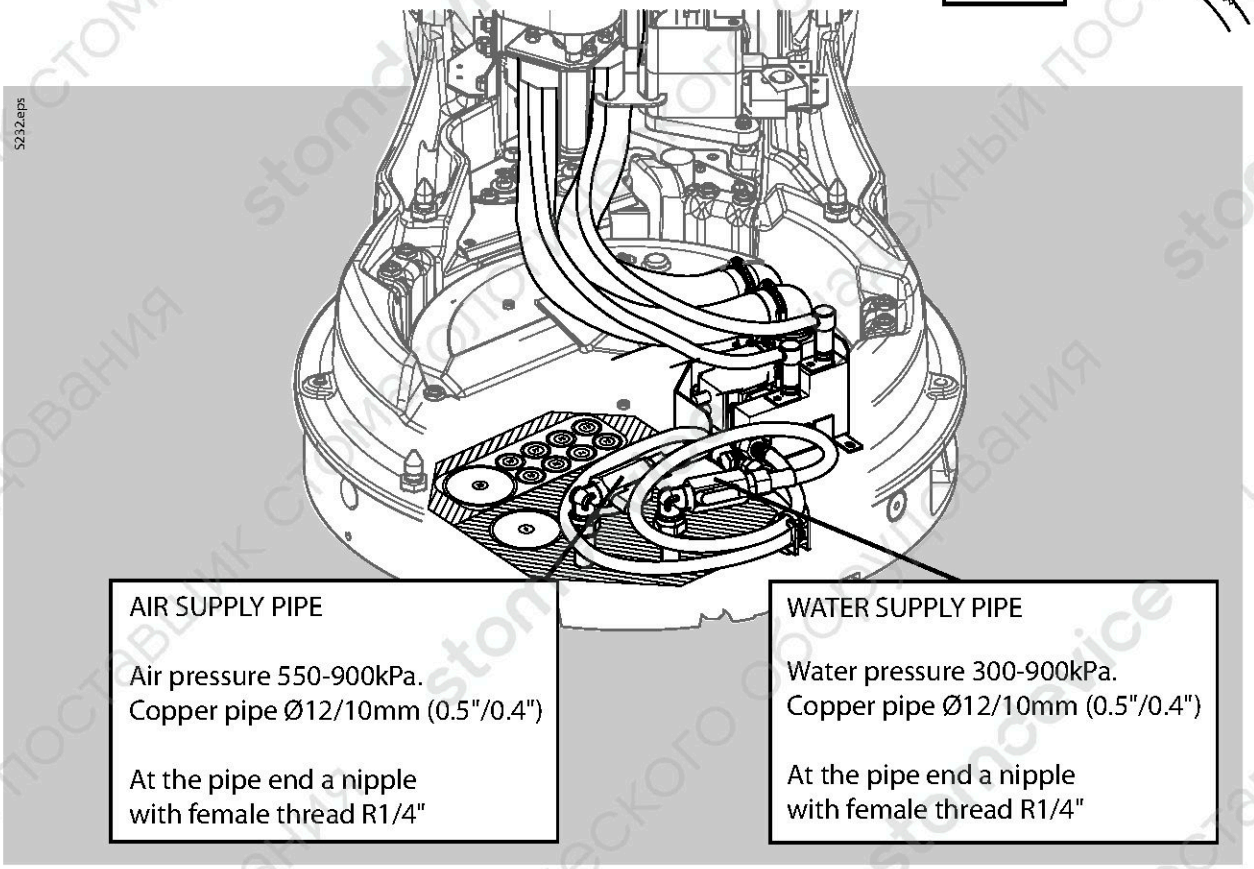
6.5 Connecting the service tubes

When connecting the service tubes observe local and national plumbing regulations as well as the instructions given in section 3 “PRE-INSTALLATION REQUIREMENTS” on page 4.

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.

The main water and air valves are located in the cuspidor base. Connect the water and air inlet tubes to the corresponding angle nipples on the floor.





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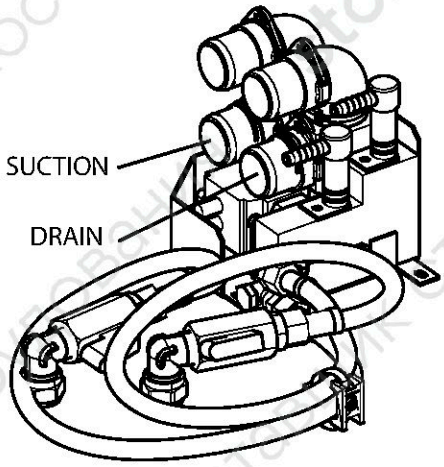
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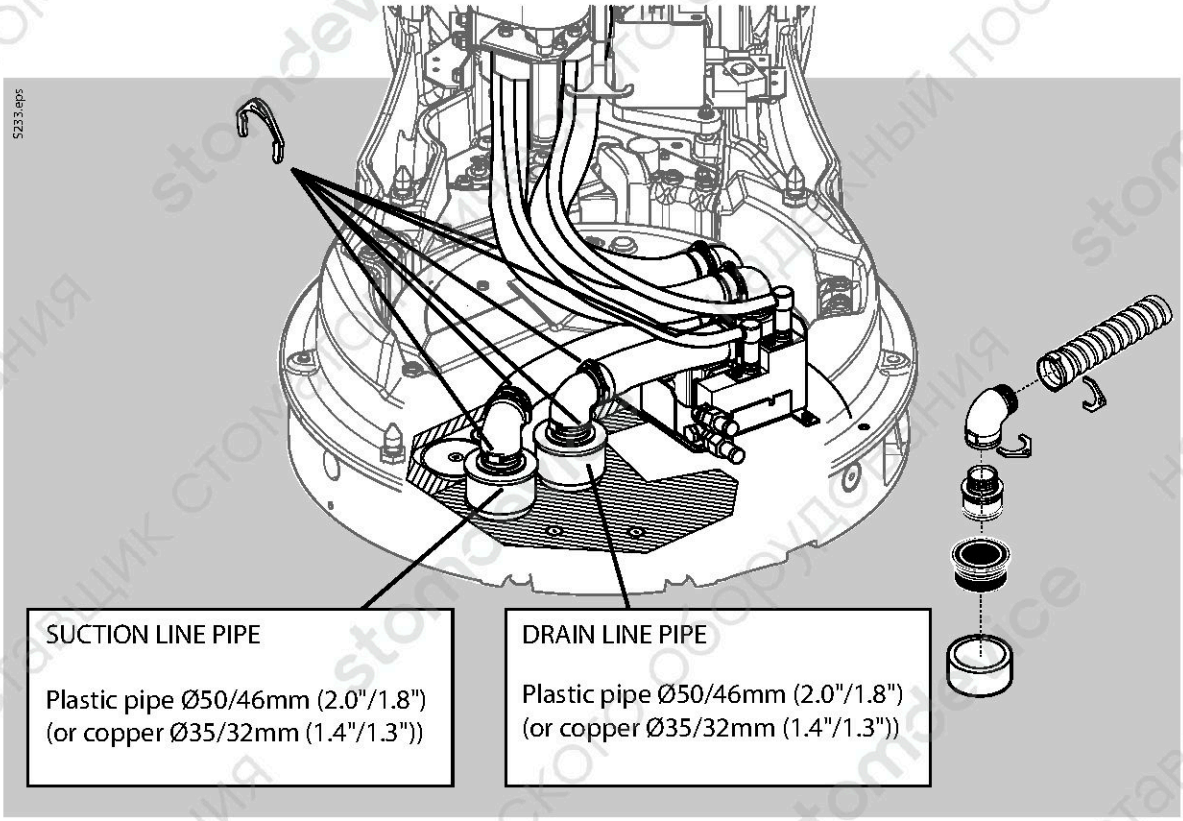
NOTE **Notice that there is no need to make an additional drain trap to the drain tube.**

NOTE **Connect the drain and suction tubes in a way that the connections do not cause any pull-out force to the ends of the tubes.**

Disconnect the suction and drain tubes coming from inside the cuspidor to make the floor tube connection easier.

Shorten the tubes if necessary. Connect the drain/suction tubes to the suction and drain nipples inside the cuspidor base. Secure the tubes with attachment rings.



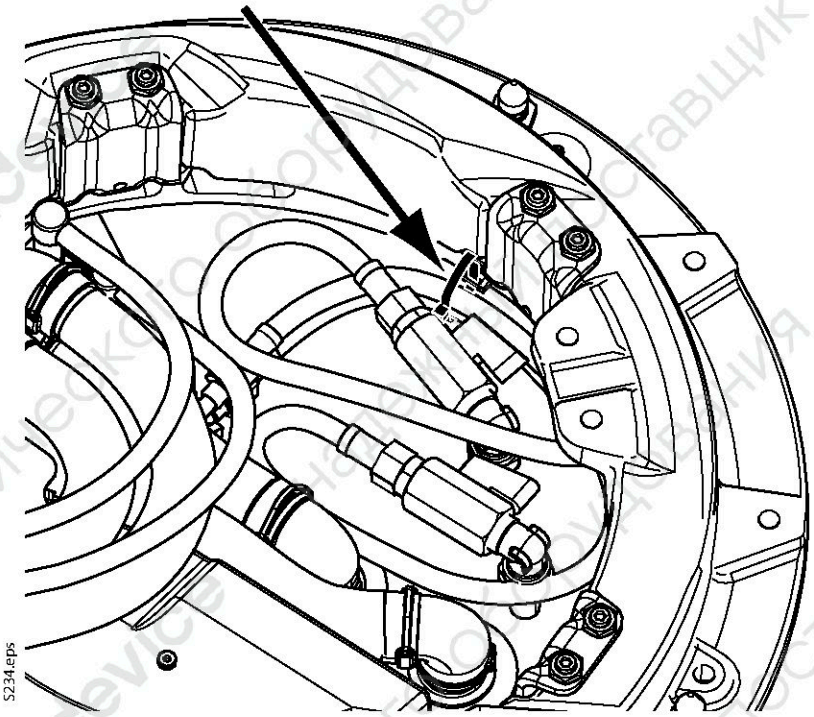


Re-attach the suction and drain tubes coming from the cuspidor.

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Secure the water and air tubes to the base with a cable tie and cable tie holder.



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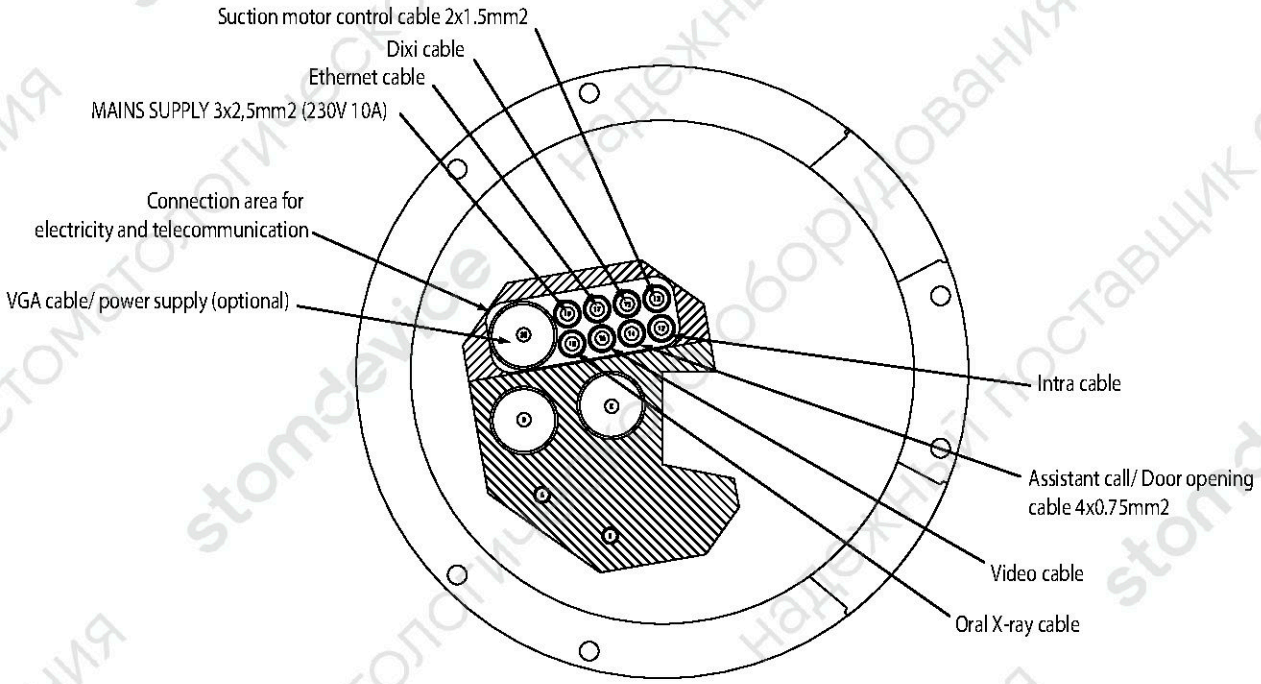
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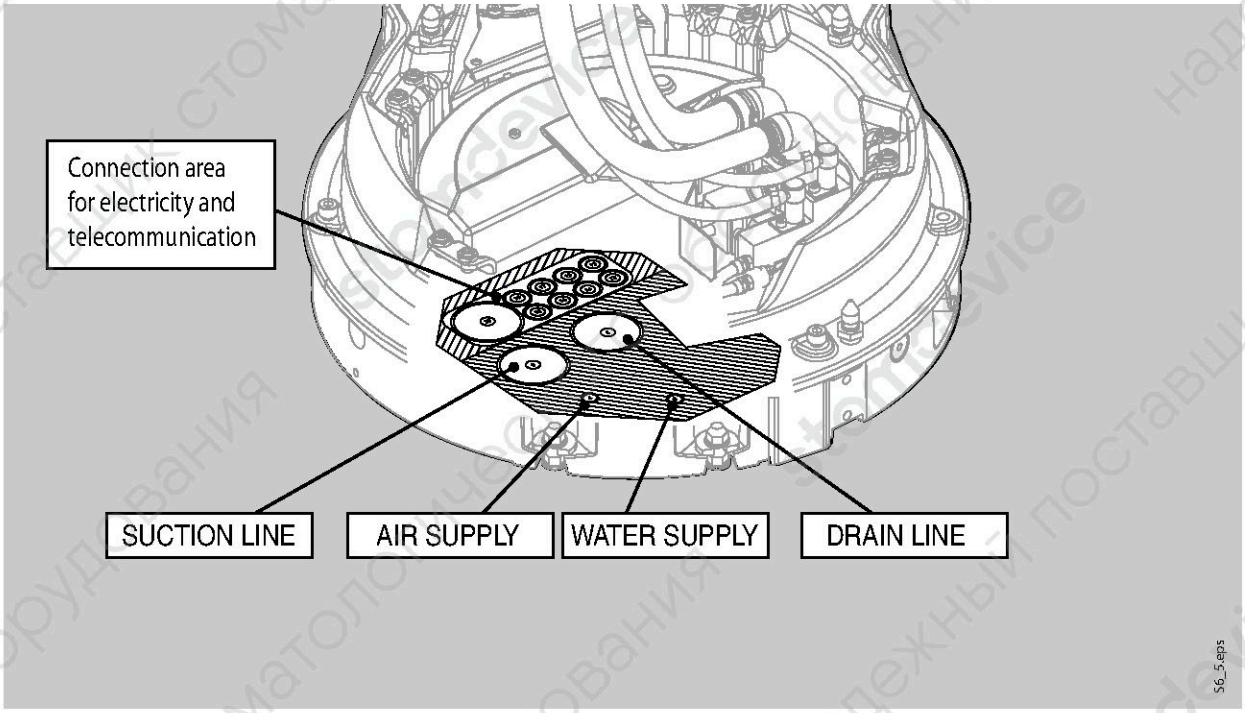
6.6 Connecting the cables

WARNING

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

Route all the cables that come from the floor into the cuspidor base.

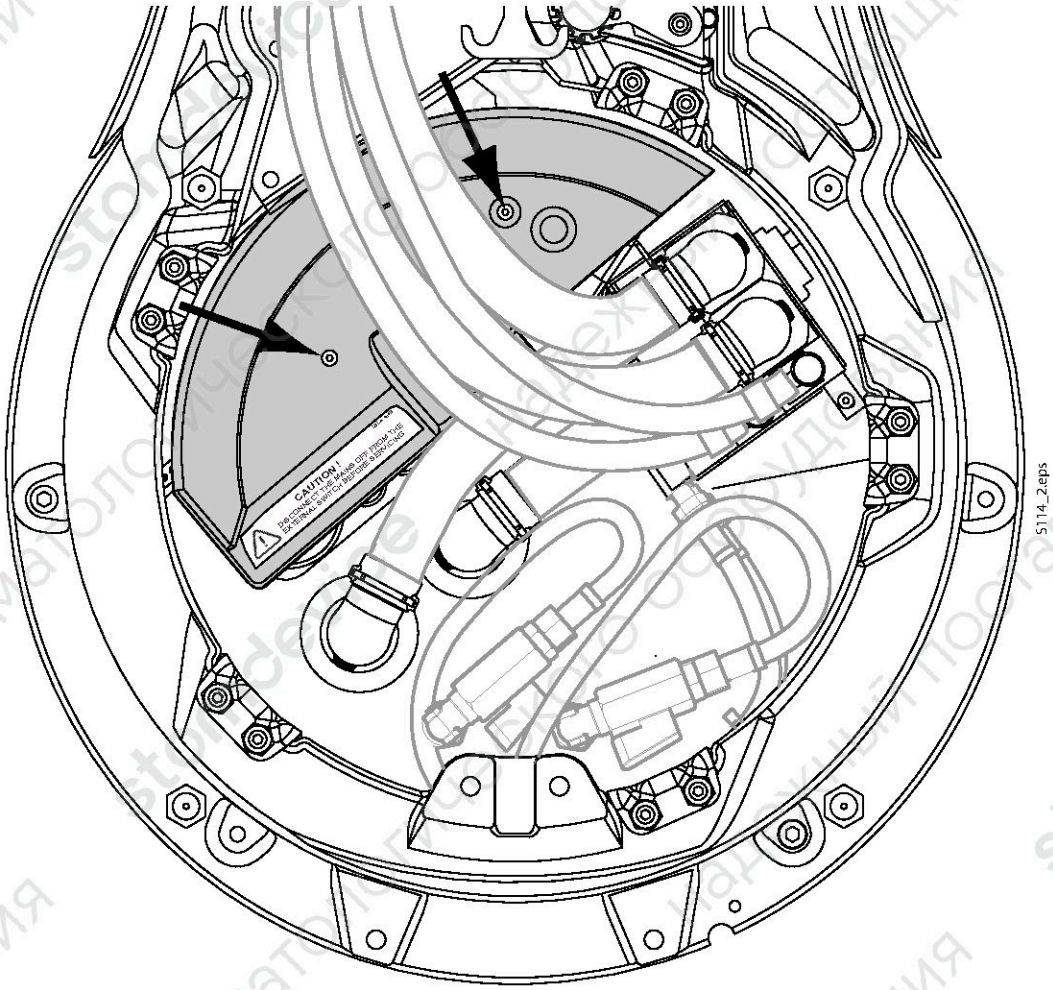




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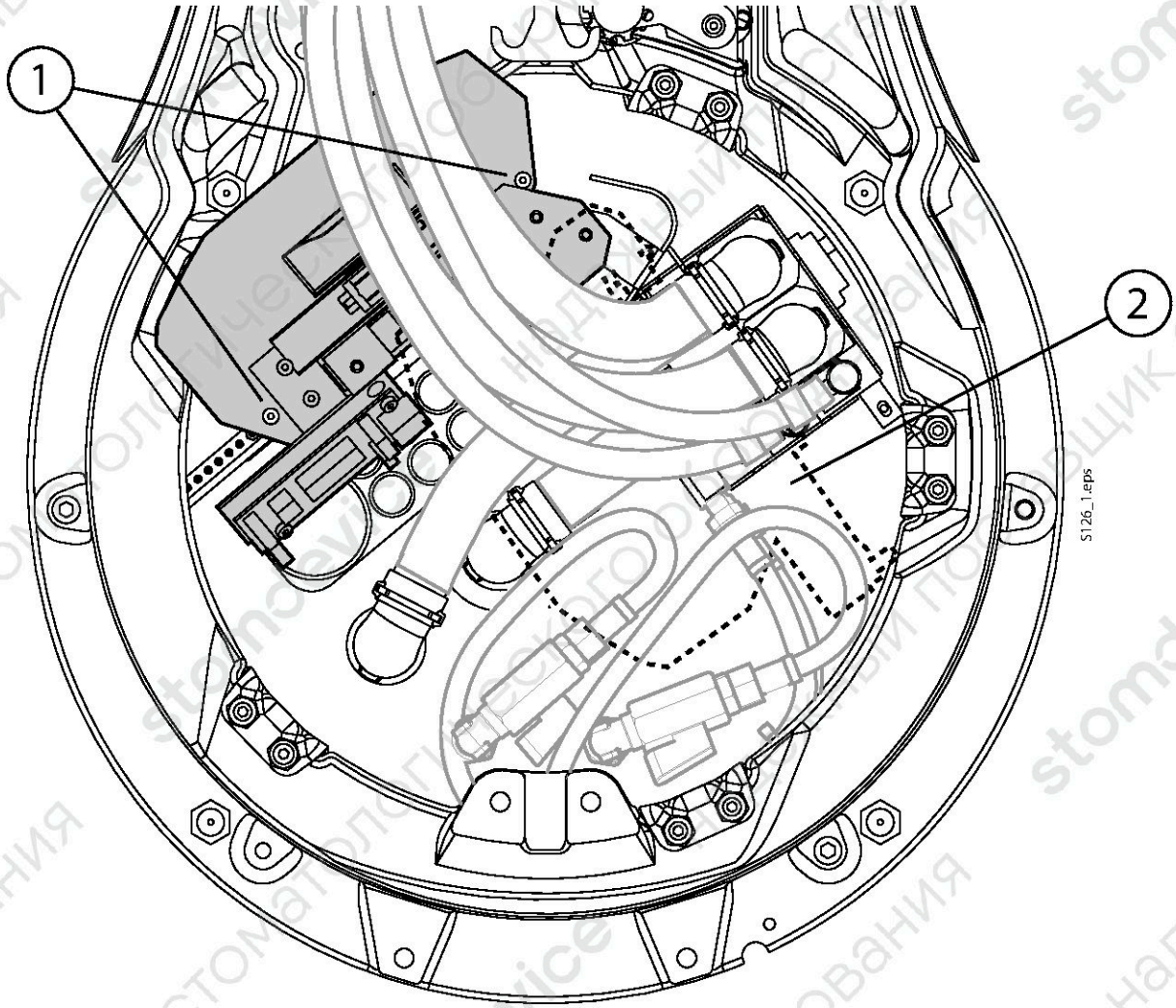
Unscrew two mains terminal cover attachment screws using 2 mm Allen key and remove the cover.



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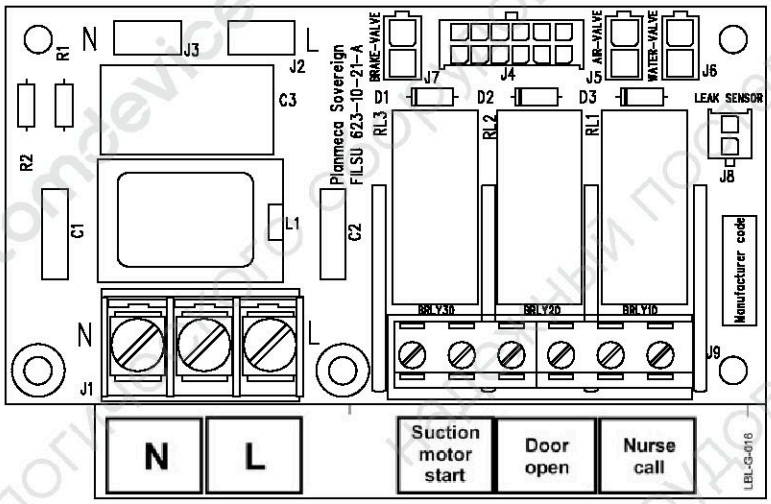
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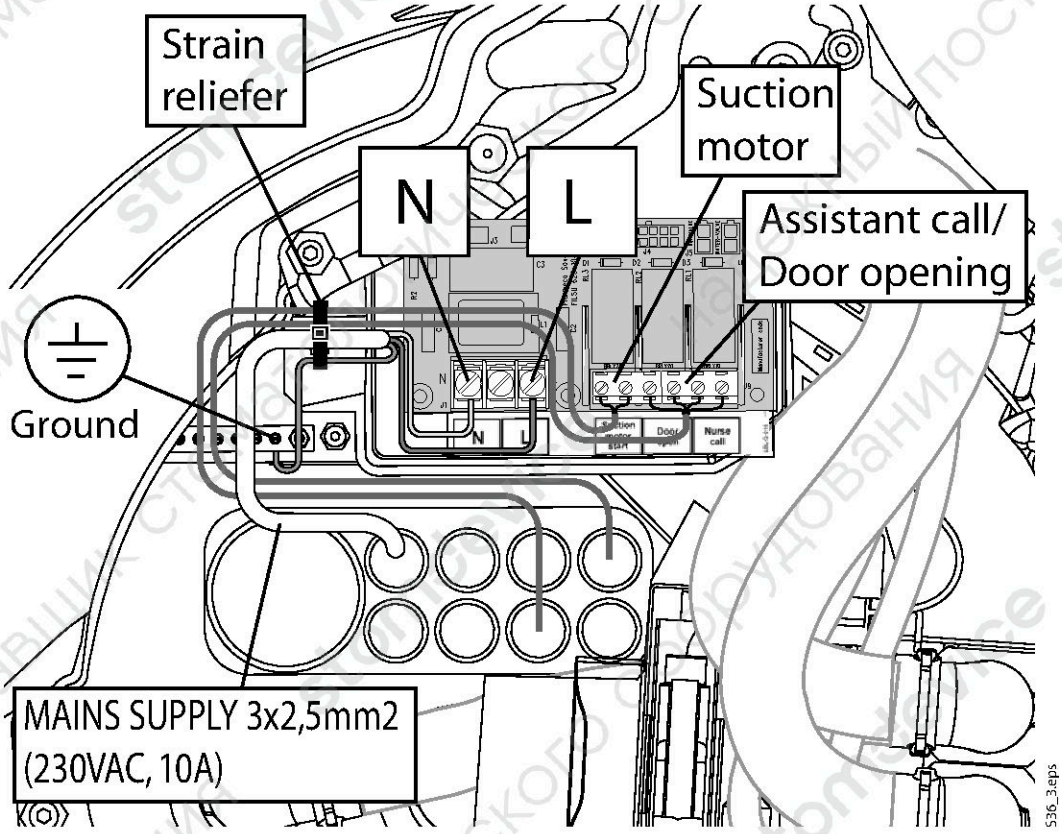
Unscrew the two attachment screws of the mains terminal shield (1) and turn the shield away from above the mains terminal (2).



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Connect the grounding lead to the brass grounding point. Connect the neutral lead of the power supply cable to the terminal marked MAINS N on the terminal block. Connect the line lead of the cable to the terminal marked MAINS L. Attach the strain reliefers. Stranded conductors must not be soldered.





WARNING

Notice that the mains voltage is always present at the mains terminal even, if the unit is switched off from its own mains switch.

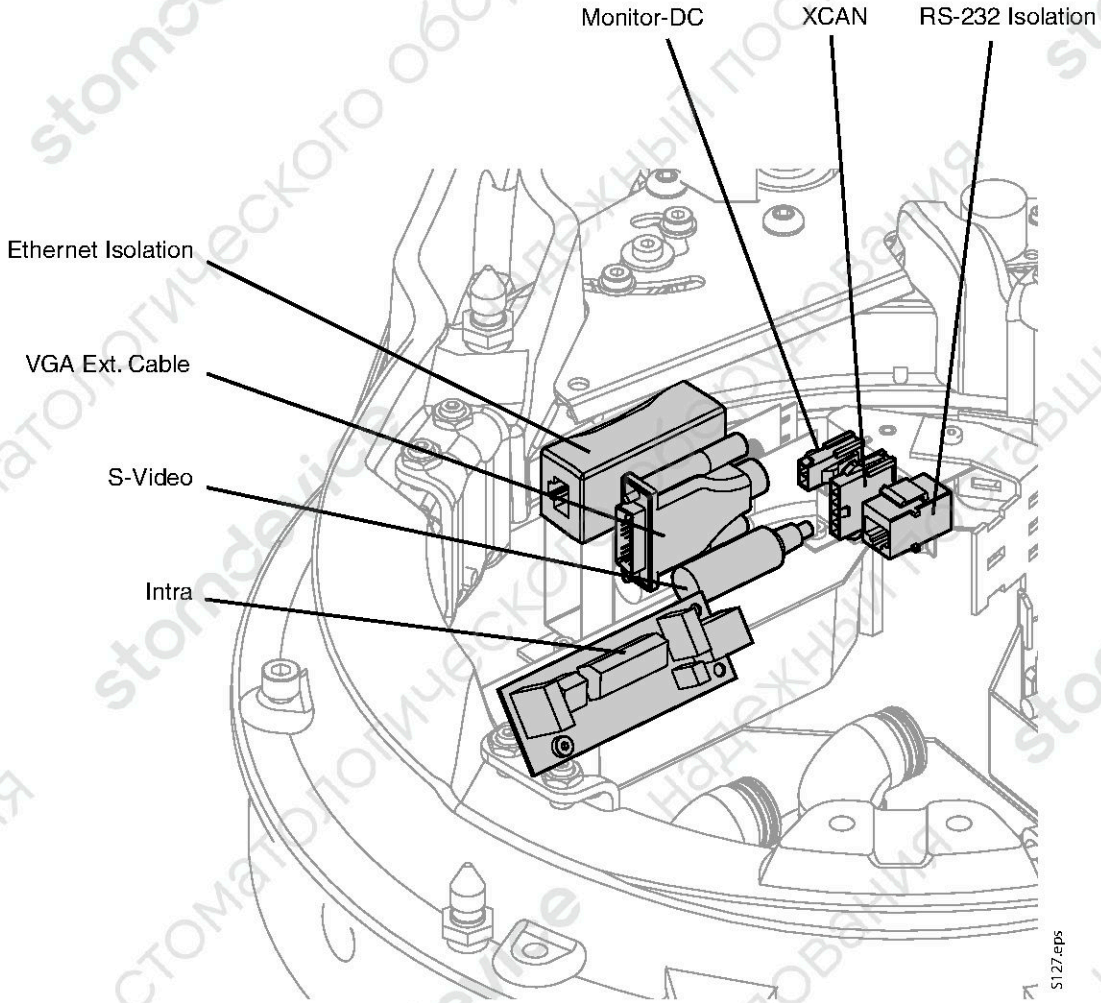
If required, connect the suction motor, door open and assistant call cables to the respective terminals. Shorten the cable if necessary.

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NOTE **These leads must not operate the suction motor, nurse call or door opening equipment. They serve as control leads with a relay on the Filsu PCB acting as an on/off switch. The maximum rating of the relay is 240V~/10A. The equipment to be controlled must be supplied with operating power from another source.**

Turn the shield back above the mains terminal and attach the two attachment screw. Connect the cables of optional equipment to respective connectors.



NOTE **See also figure on section 19 “CONNECTIONS” on page 181.**

Place the mains terminal cover to its position and tighten two attachment screws.

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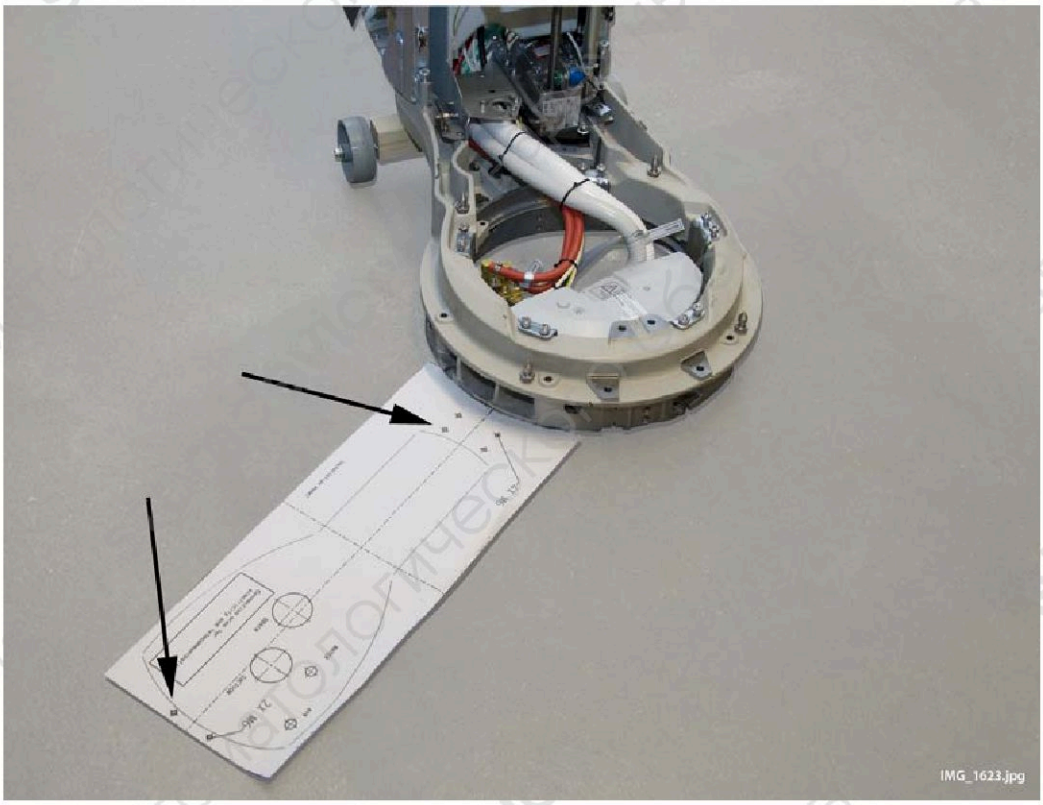
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7 INSTALLING THE SEPARATE CONNECTION CASE (OPTIONAL)

NOTE **The separate connection case cannot be used with motorised base.**

NOTE **The connection case must be in touch with the base. The case can be shortened.**

Use the installation pattern as a template to position the connection case over the cables, the water/air inlets and the suction/drain tubes that come from the floor. Mark the positions of the case attachment screws to the floor.

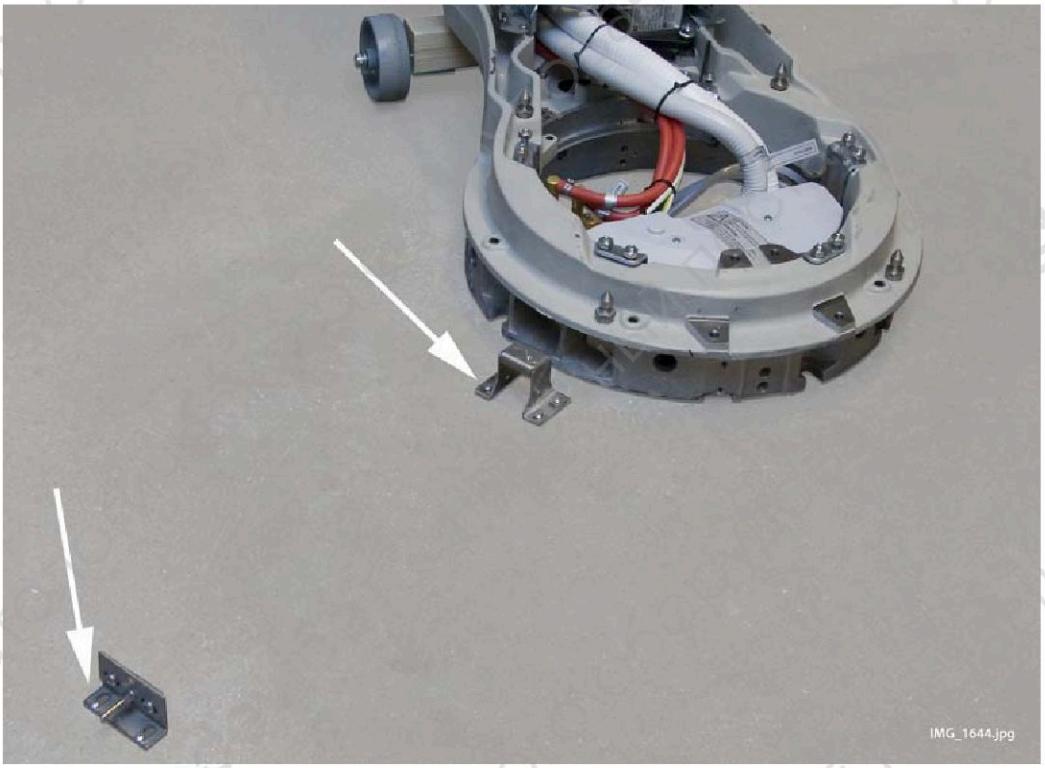


If the floor is made of wood or similar, use the installation plate (refer to section “Installation plate with separate connection case”.

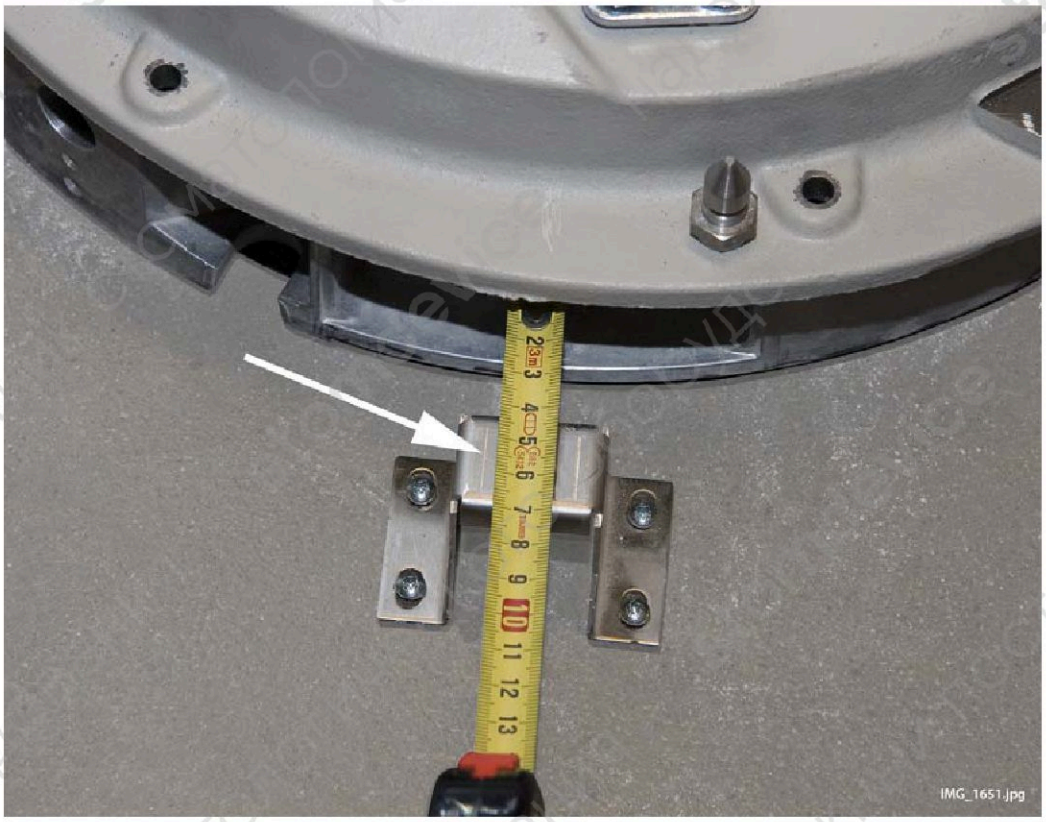
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Drill attachment holes and attach the case attachment plates to the floor.



Measure the distance between the base outer edge and case cover attachment screw opening located on the plate.



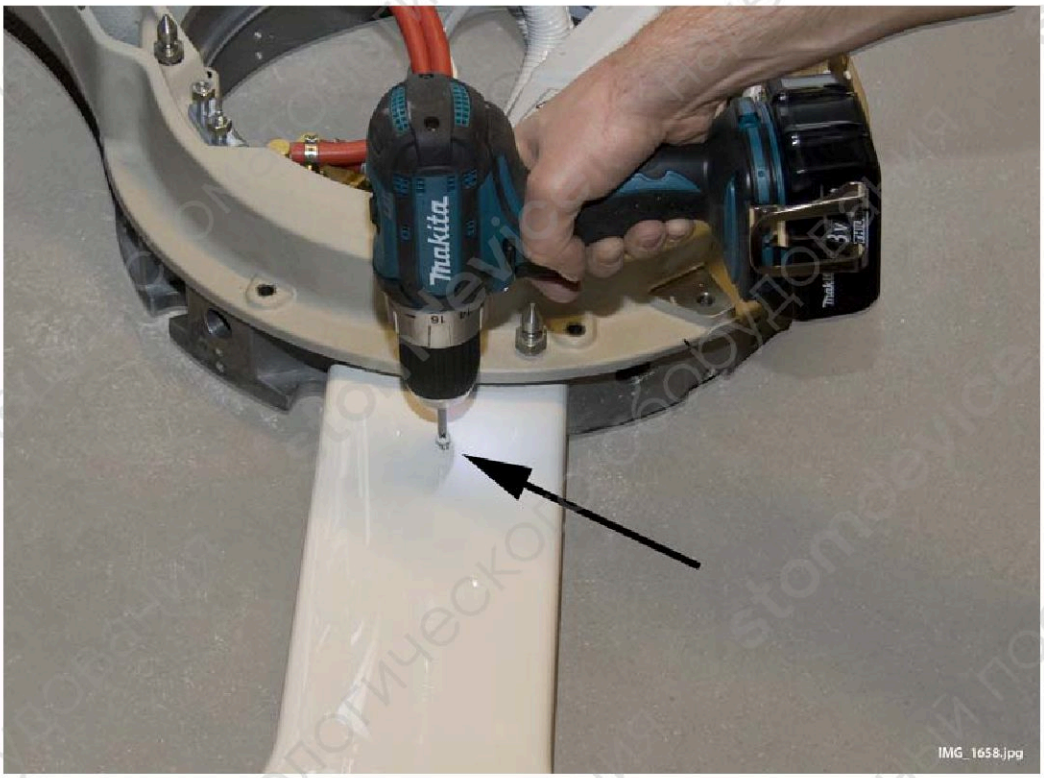
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Mark the attachment screw position to the case cover.



Attach the case cover to its position with the self drilling screw.



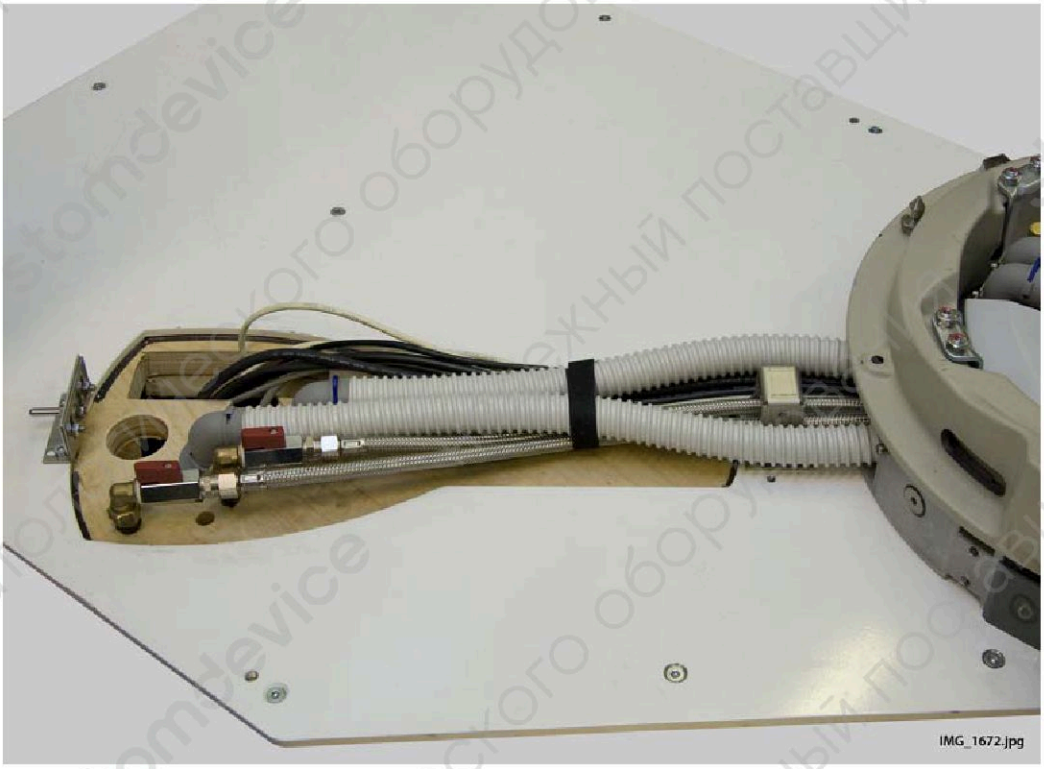
Detach the cover.

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For cutting the tubes that come from the floor and connecting the water/air angle nipples refer to section 5 “OPERATIONS PRIOR TO THE CUSPIDOR ATTACHMENT” on page 14.

Route the cables and tubes into the unit. Secure the cables and tubes with attachment strip.



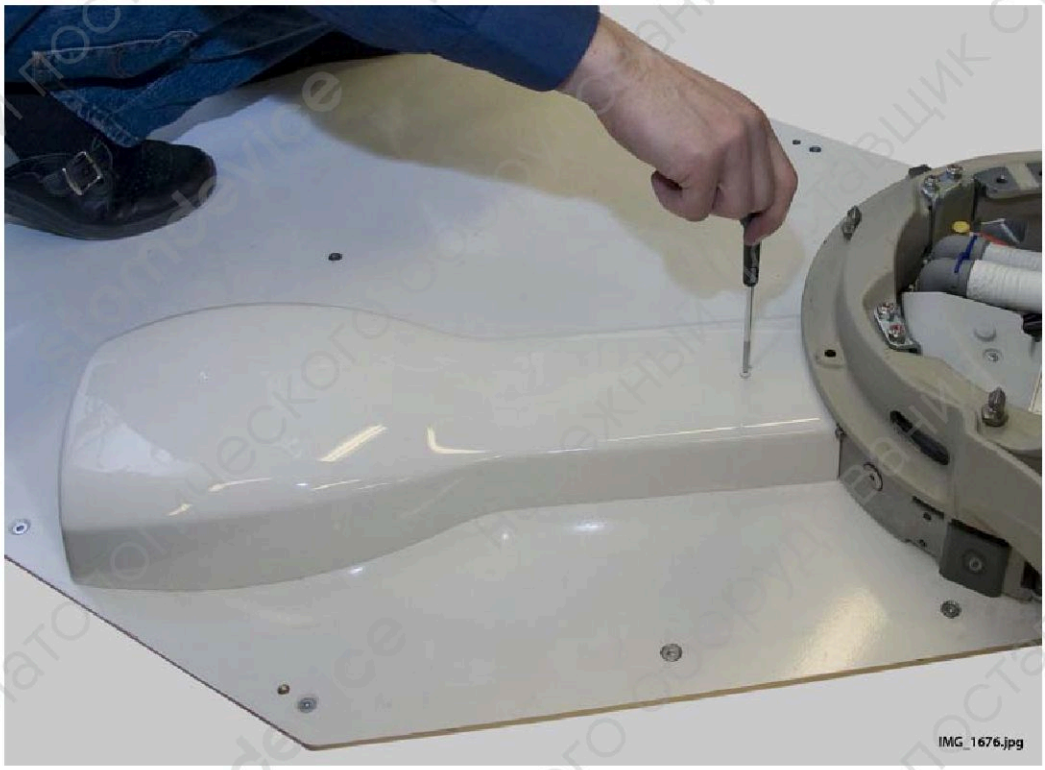
Route the water and air tubes from below the attachment plate.



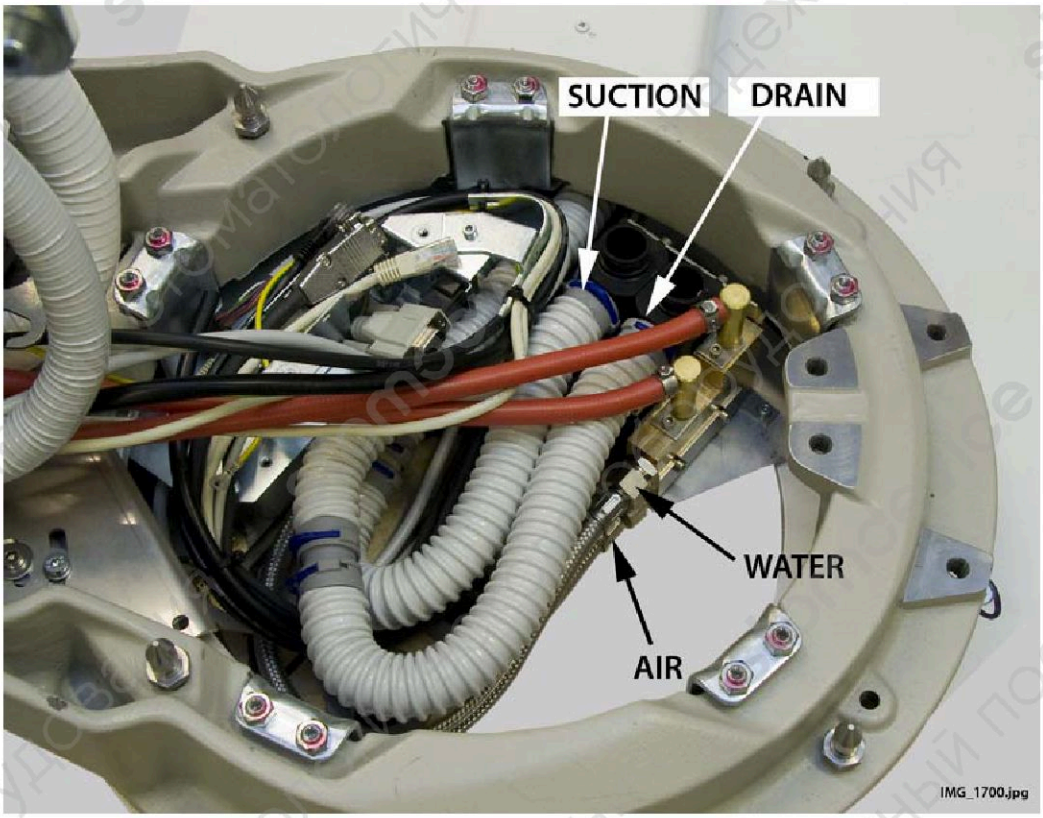
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Attach the case cover to its position.



Connect the tubes according to the instructions given in section 6.5 “Connecting the service tubes” on page 34.

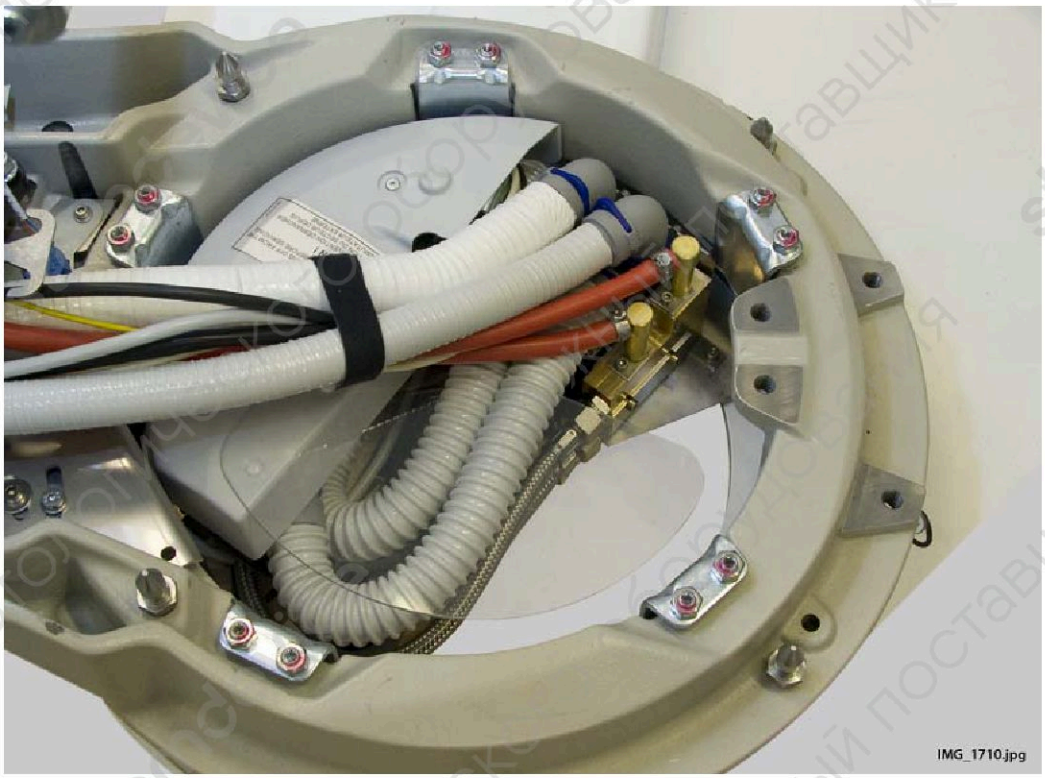


Connect the cables according to the instructions given in section 6.6 “Connecting the cables” on page 37.

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Connect all the cables and attach the mains terminal cover and the plastic shield. Attach the suction and drain tubes coming from the cuspidor and secure them with attachment strip.



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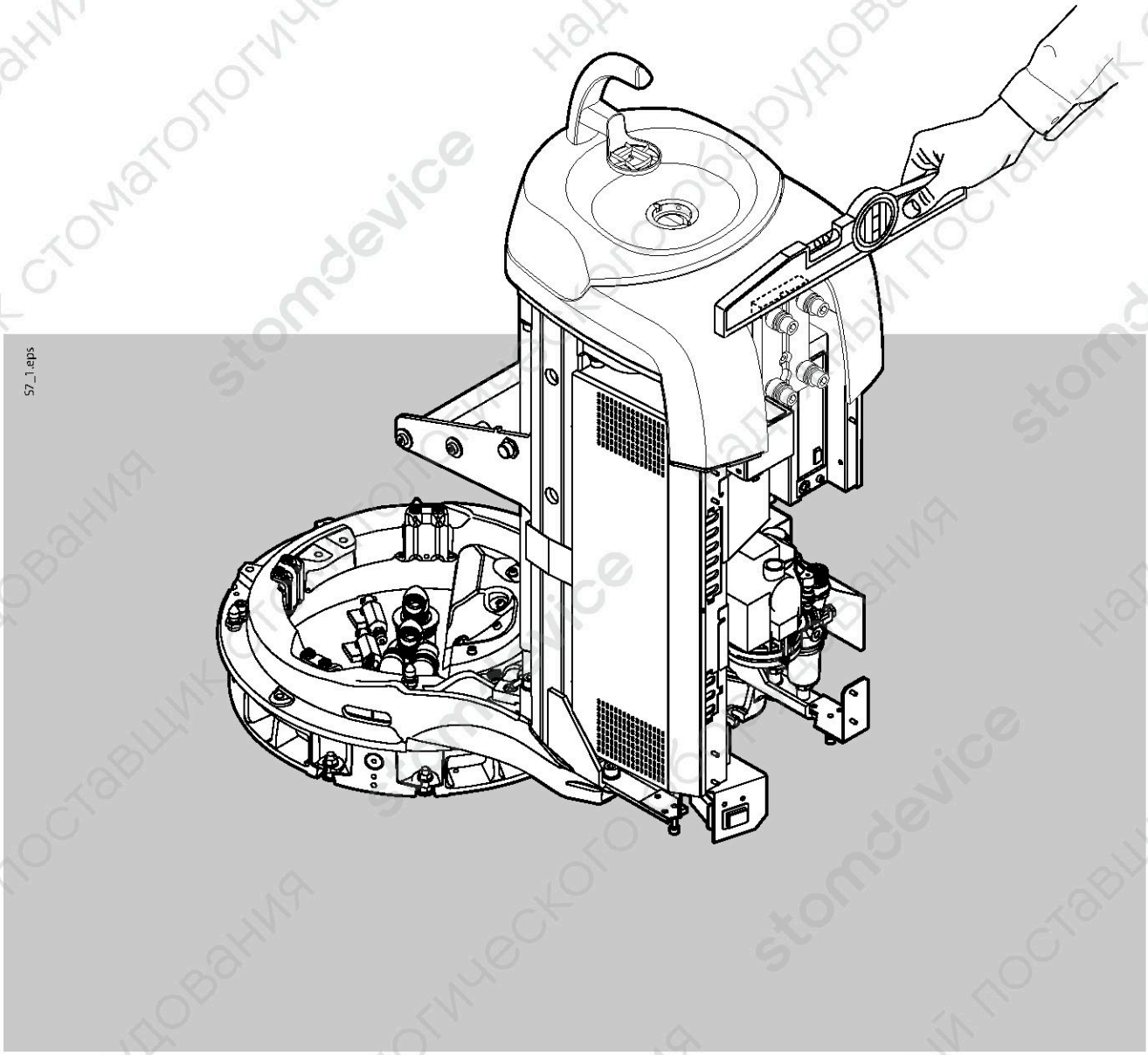
8 INSTALLING THE PYLON AND ARMS

8.1 Installing the pylon

NOTE **Both the pylon for the fixed OP delivery arm and the lower pylon part for rotating OP delivery arm are installed according to the instructions given in this section. The figures shown are from longer pylon.**

The cuspidor position must be adjusted before checking the pylon attachment plate position. Refer to the section 6.4 “Checking the vertical position of the cuspidor” on page 32. The pylon adjustment cannot be corrected with the pylon attachment plate adjustment.

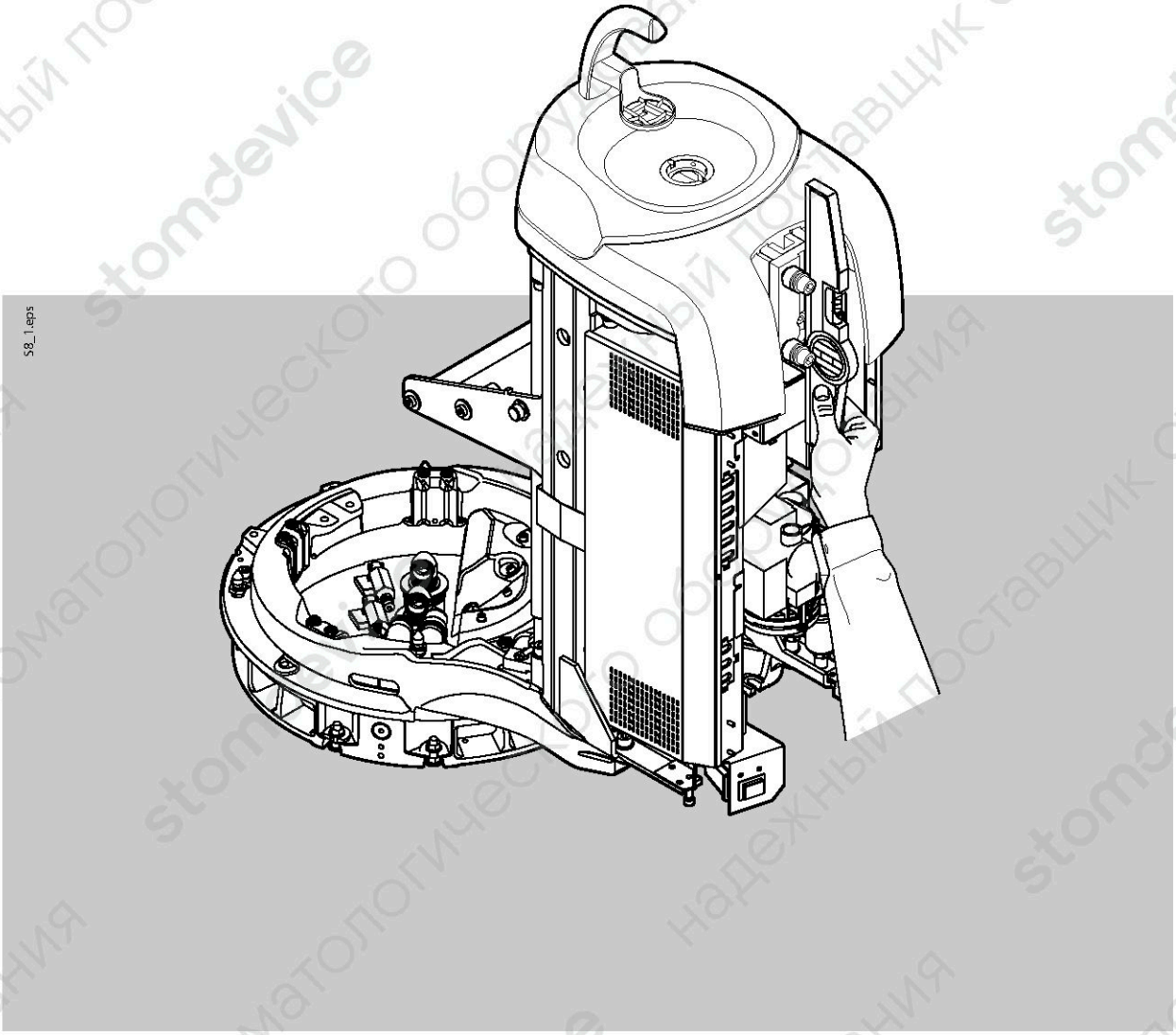
Check the sideways position of the pylon attachment plate using a spirit level.



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Check the position of the pylon attachment plate in depth with a spirit level.



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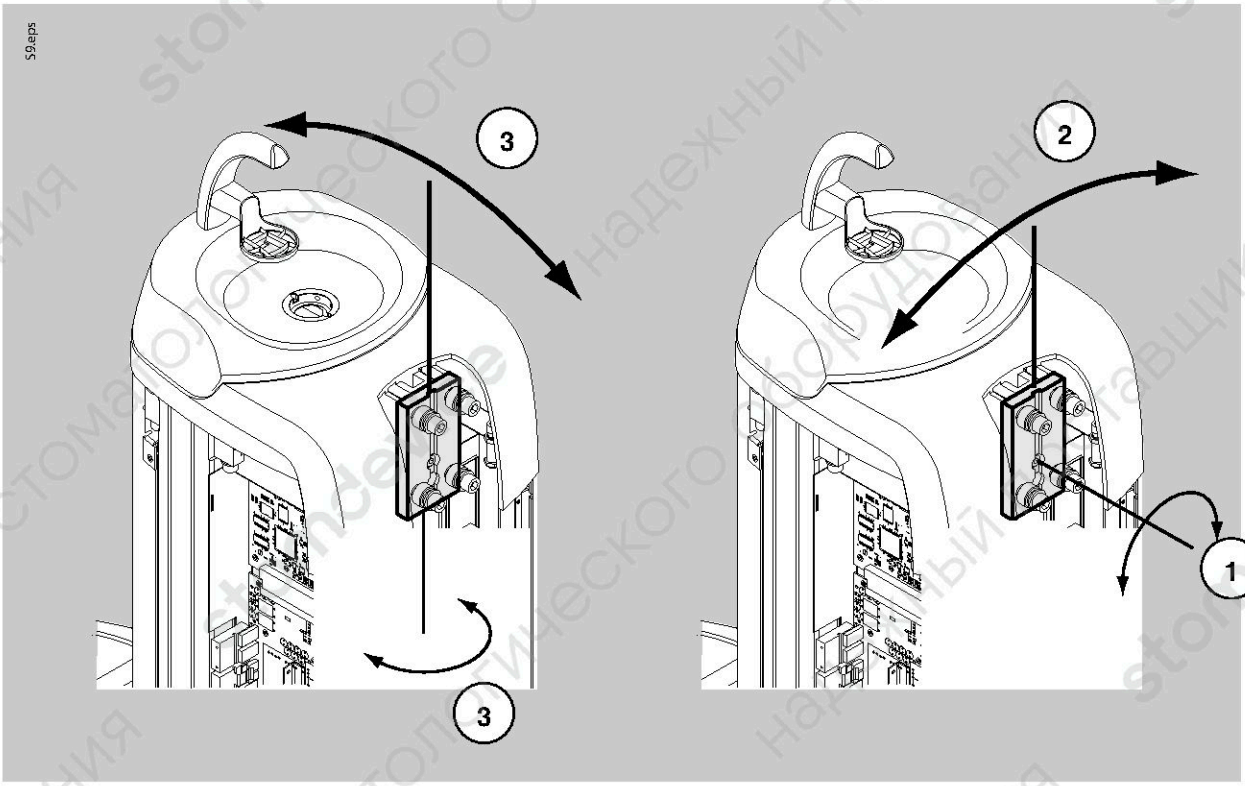
Adjust the pylon attachment plate position as follows, if needed.

Loosen the attachment plate locking screw using a 10 mm Allen key (1).

The sideways position of the pylon attachment plate is adjusted by turning the plate manually (2).

The pylon position in depth is adjusted with a screw located behind the attachment plate (use 5 mm Allen key). You can reach the screw from behind the lower edge of the plate (3).

After adjustment tighten the locking screw.

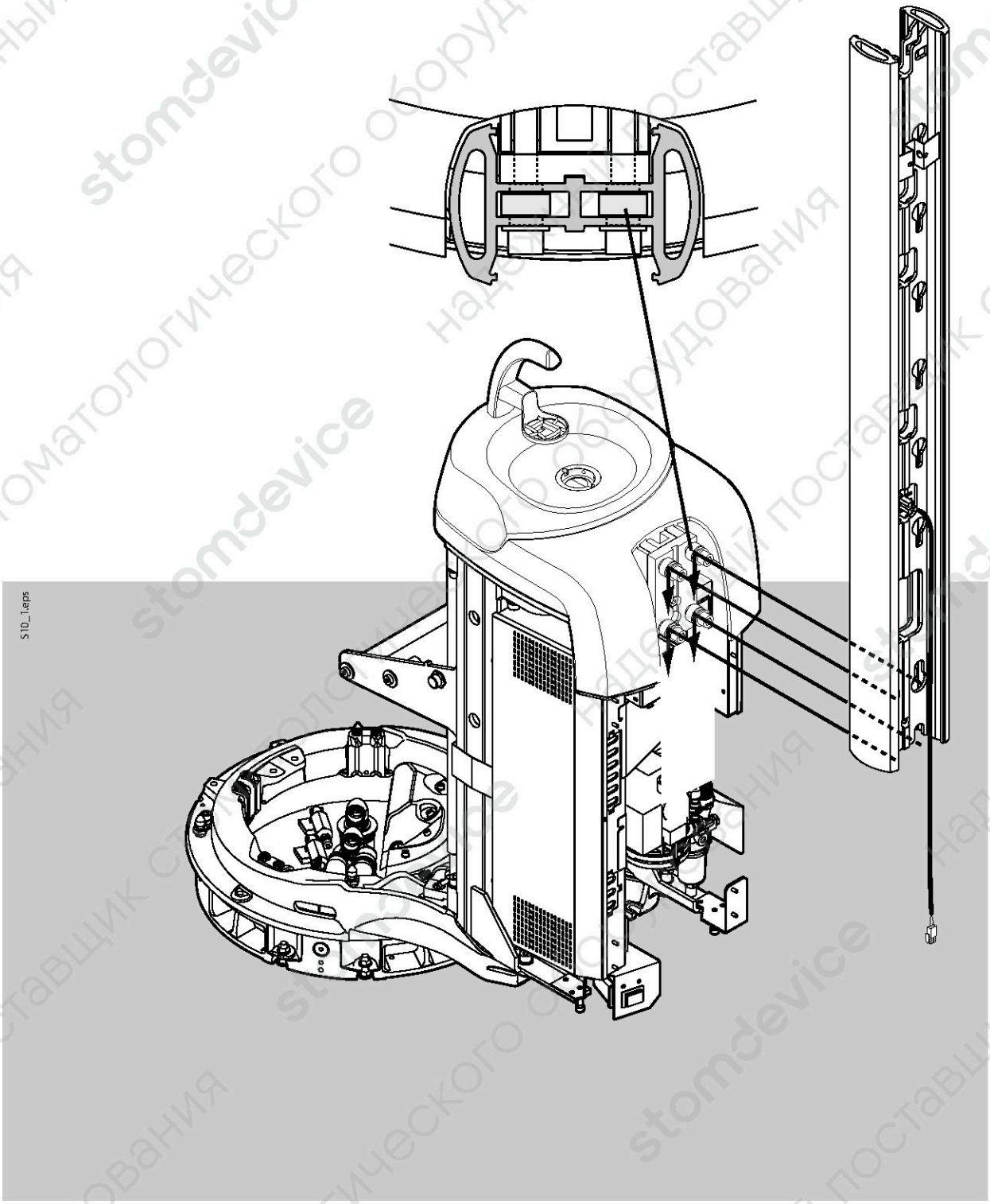


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Make sure that the attachment screws are loosened so that the they go into the openings on the pylon. **Do not loosen the screws too much, otherwise the attachment nuts will drop into the cuspidor.**

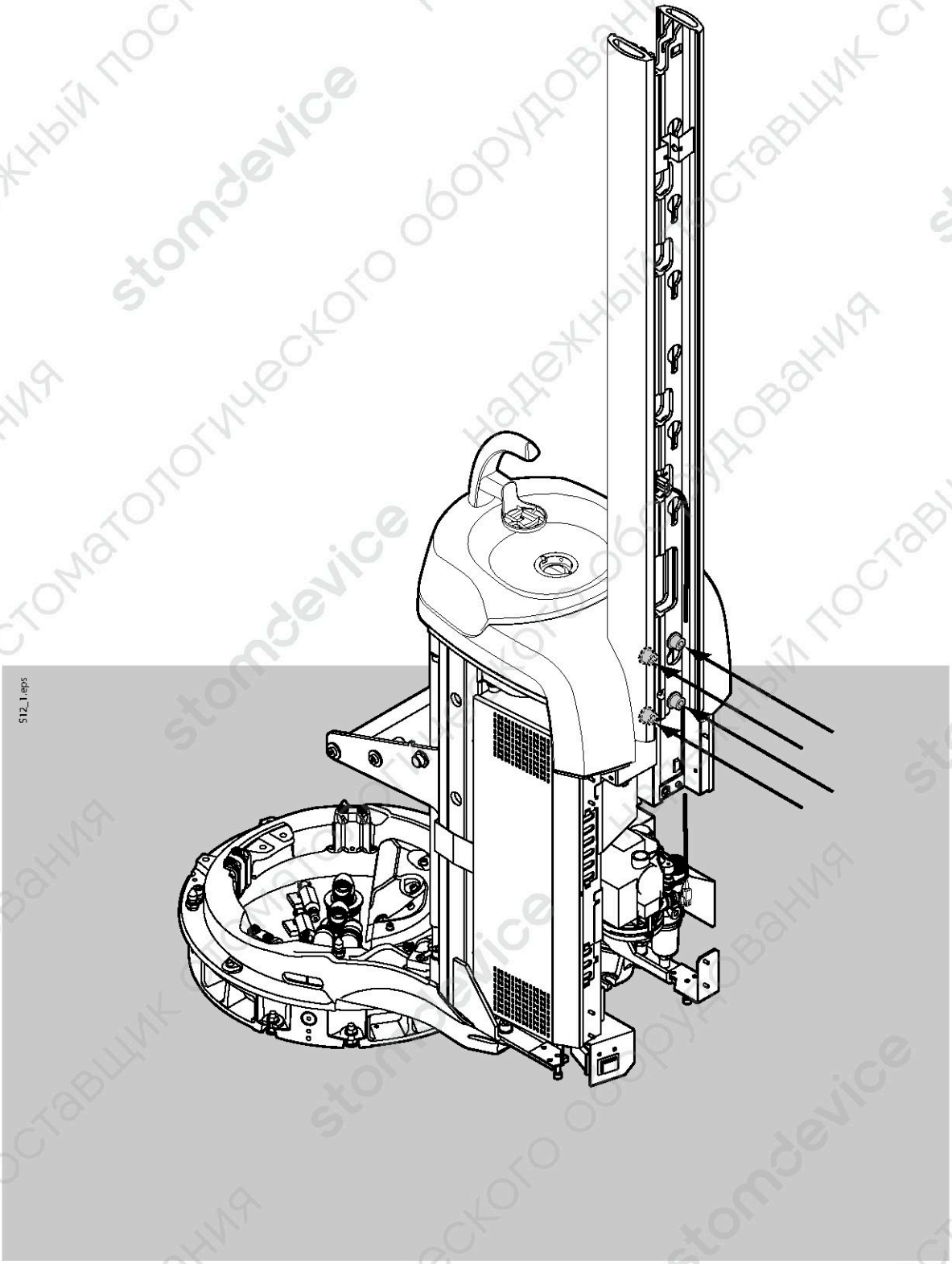
Lift the pylon to its position as shown on the figure below.



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Tighten the four pylon attachment screws using a 10 mm Allen key.



Check the sideways position of the pylon as well as the position of the pylon in depth using a spirit level. Adjust the pylon attachment plate position, if needed.

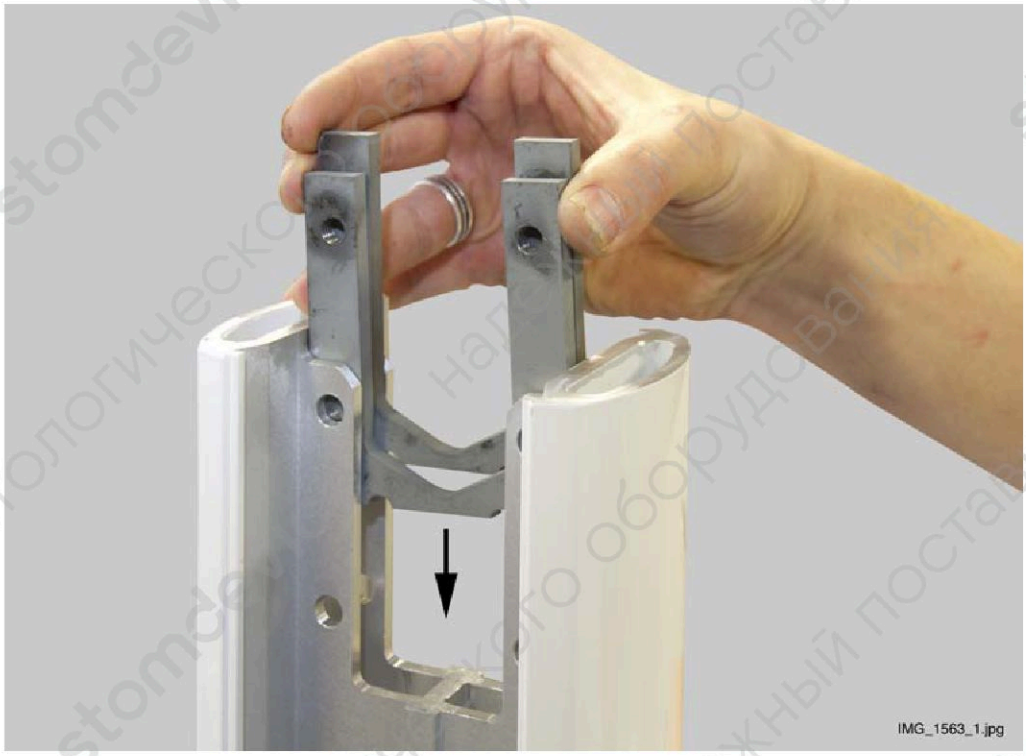
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8.2 Installing the rotating OP delivery arm

Attach the lower pylon according to the instructions given in section 8.1 “Installing the pylon” on page 48.

Slide the joint support plate to the pylon.



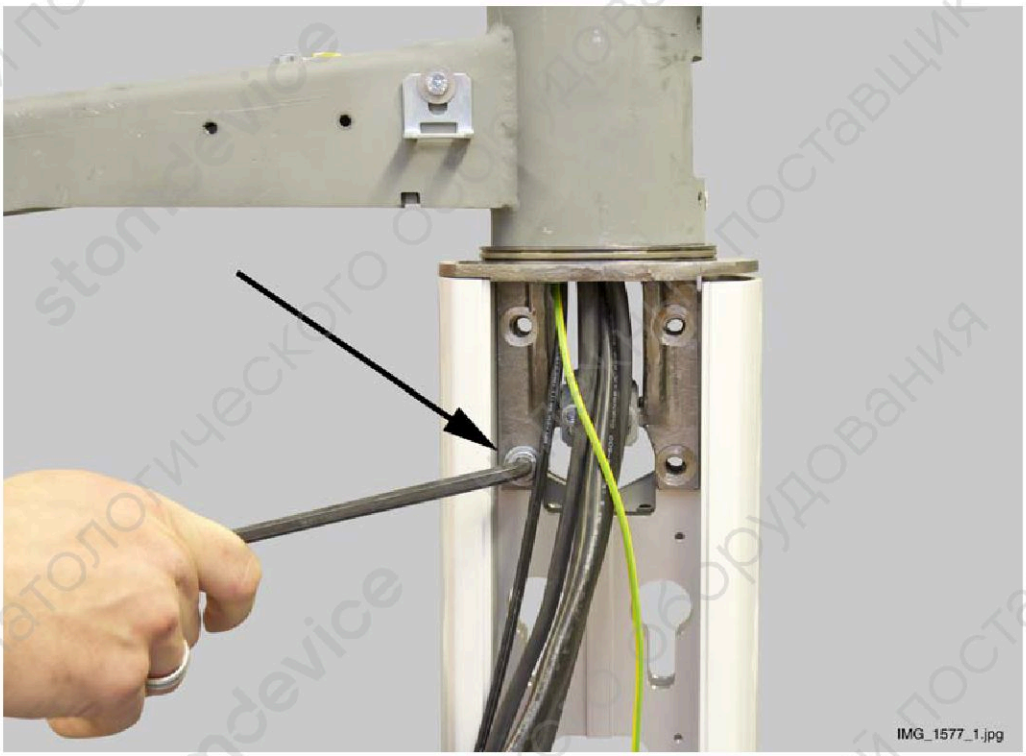
Push the OP delivery arm to its position.



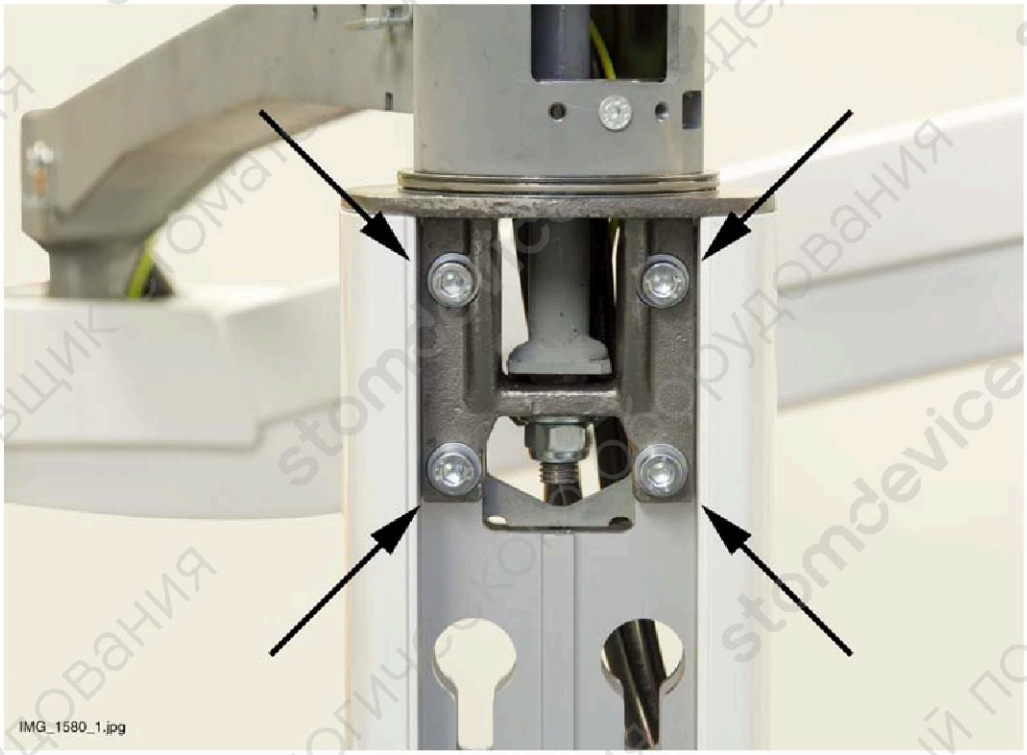
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The OP delivery arm is attached to the pylon with eight attachment screws and washers (four on both sides). Attach the screws to the both sides using a 6 mm Allen key.



After attaching the screws tighten them all.



Remove the OP delivery arm transport plate and the OP delivery arm middle joint transport plate as described in section 8.3 “Installing the fixed OP delivery arm” on page 65.

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Slide the joint support plate to the upper pylon.



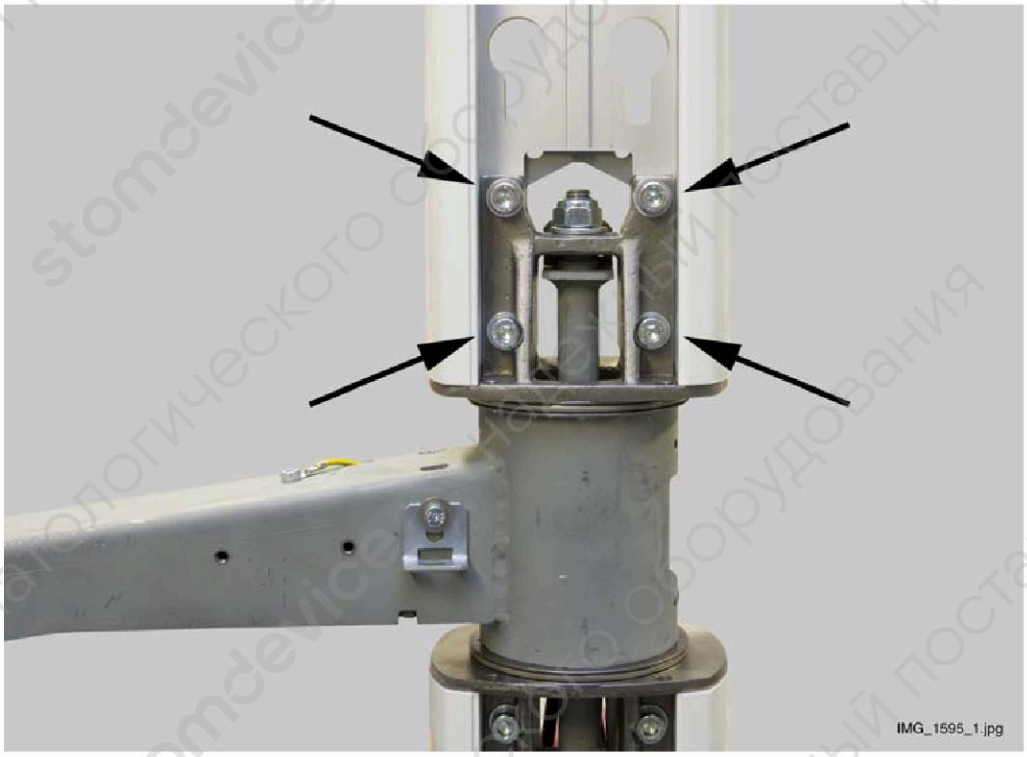
Place the upper pylon to the OP delivery arm joint so that the stopper arch (black arrow) is towards patient chair.

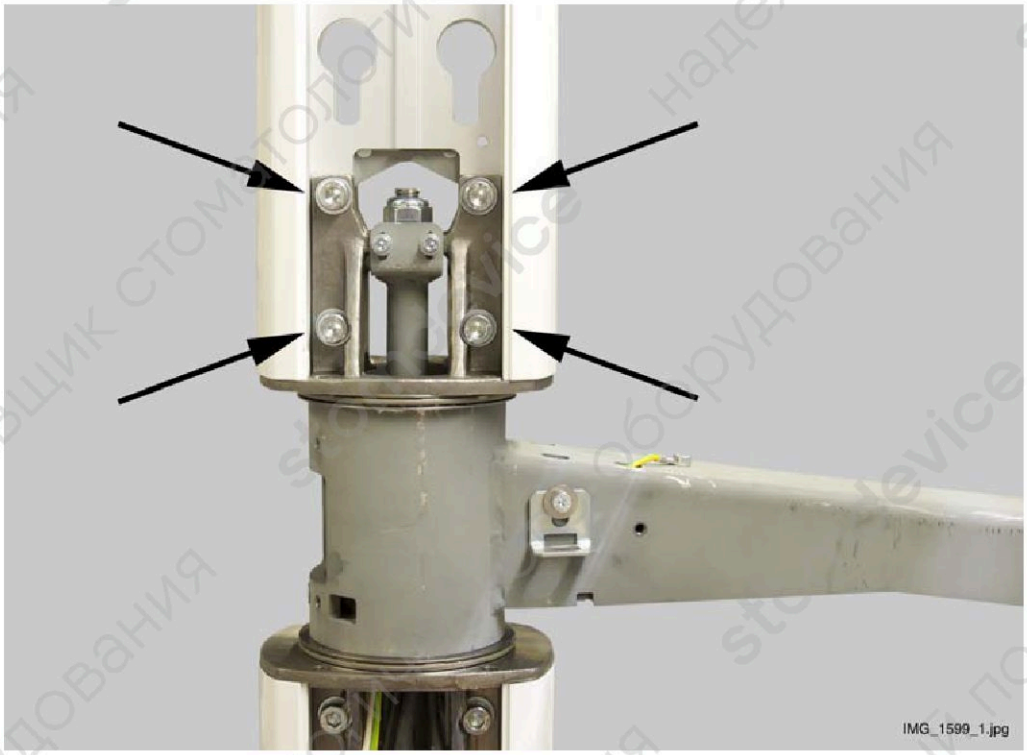


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The pylon is attached to the OP delivery arm with eight attachment screws and washers (four on both sides). Attach the screws to the both sides using a 6 mm Allen key. Tighten all screws.

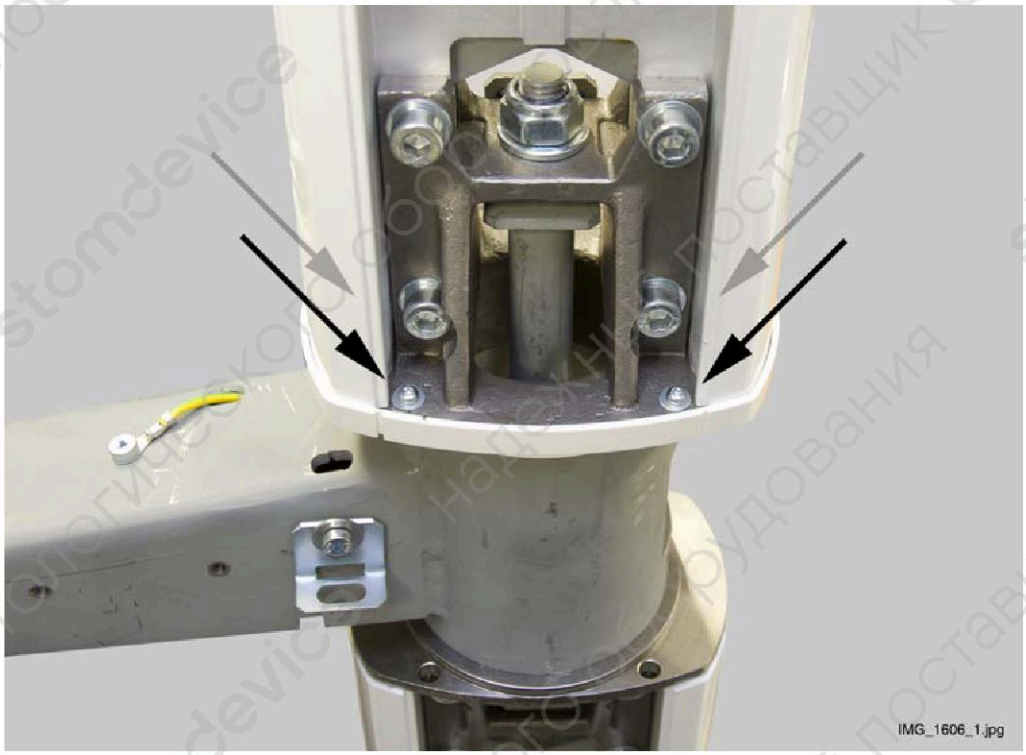




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Attach the upper pylon cover with four attachment screws using a 10 Torx key.



Install the Planmeca SingLED operating light at this stage. Refer to the section 9.6 “Installing the Planmeca SingLED operating light” on page 110.

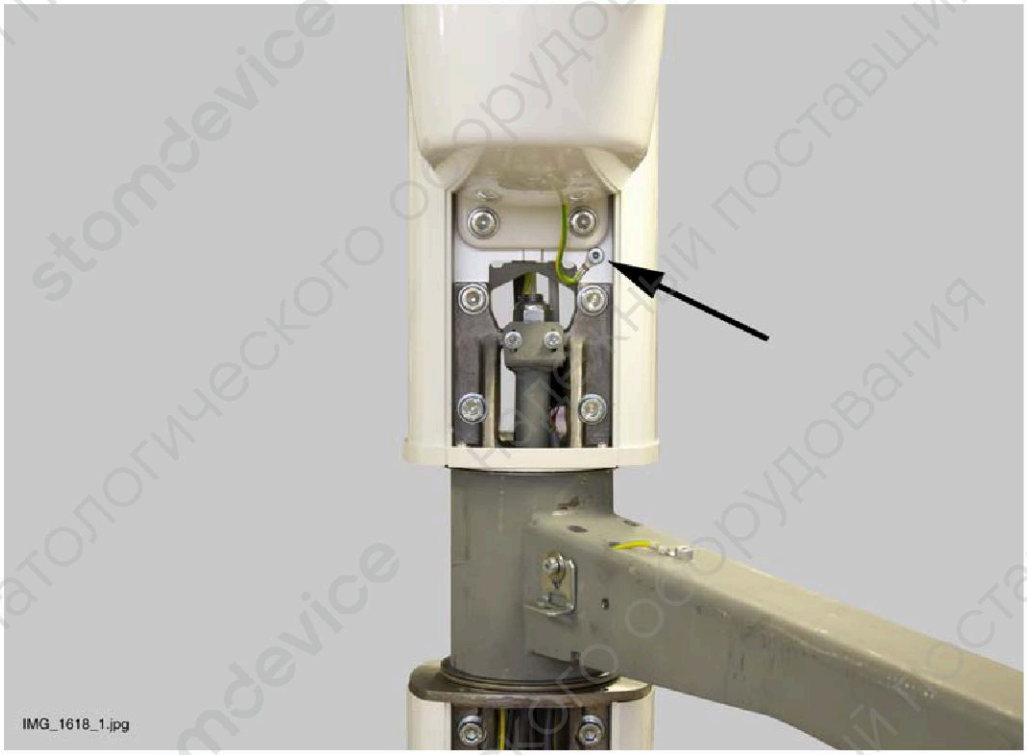


NOTE **Make sure that the light cable connectors are not in the OP delivery arm joint but secured to the upper pylon with a cable tie.**

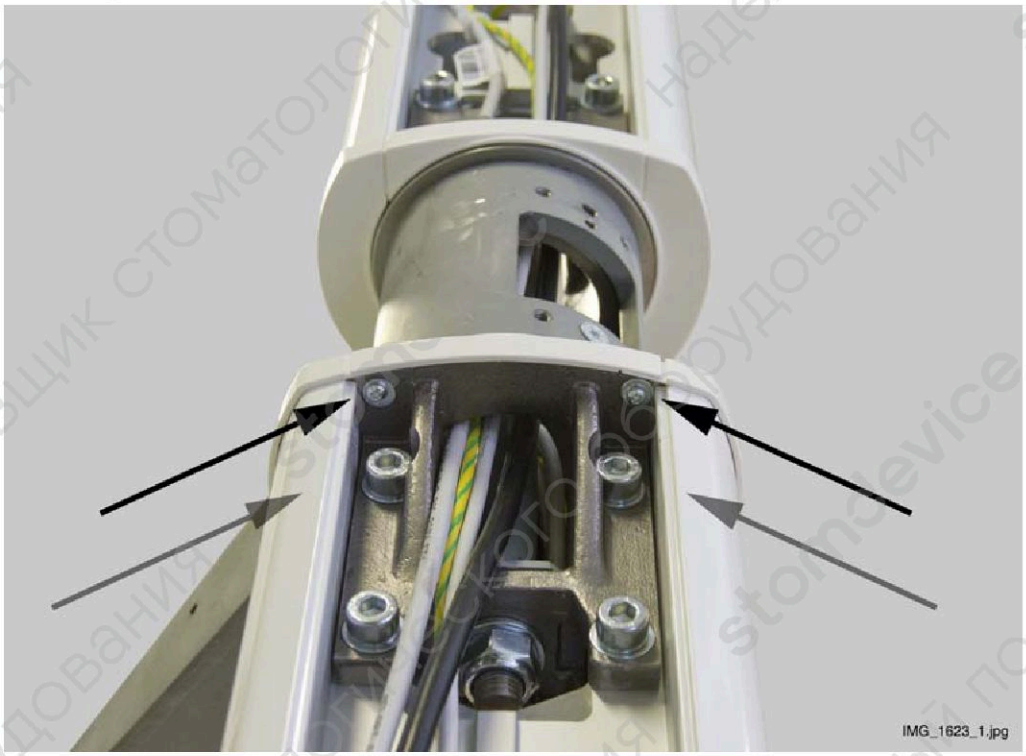
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Install the monitor arm to the pylon at this stage. Refer to the section 9.3 “Installing the monitor to the pylon” on page 93. **NOTE: route the monitor cables through the OP delivery arm joint.**



Attach the lower pylon cover with four attachment screws using a 10 Torx key



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Attach the lower bracket arm cover to its position with four attachment screws. Do NOT tighten the screws yet.



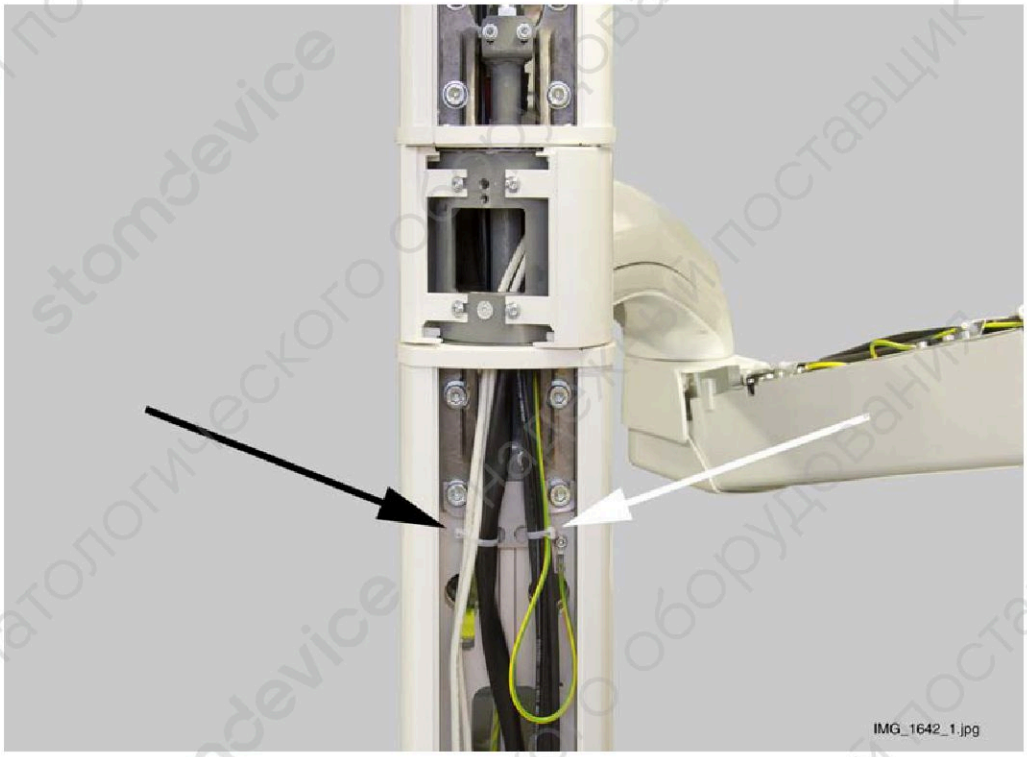
Attach the arm joint side covers to their positions. The covers are attached with three screws: to the joint with two screws (white arrows) and to the arm with one screw. Use a 3 mm Allen key.



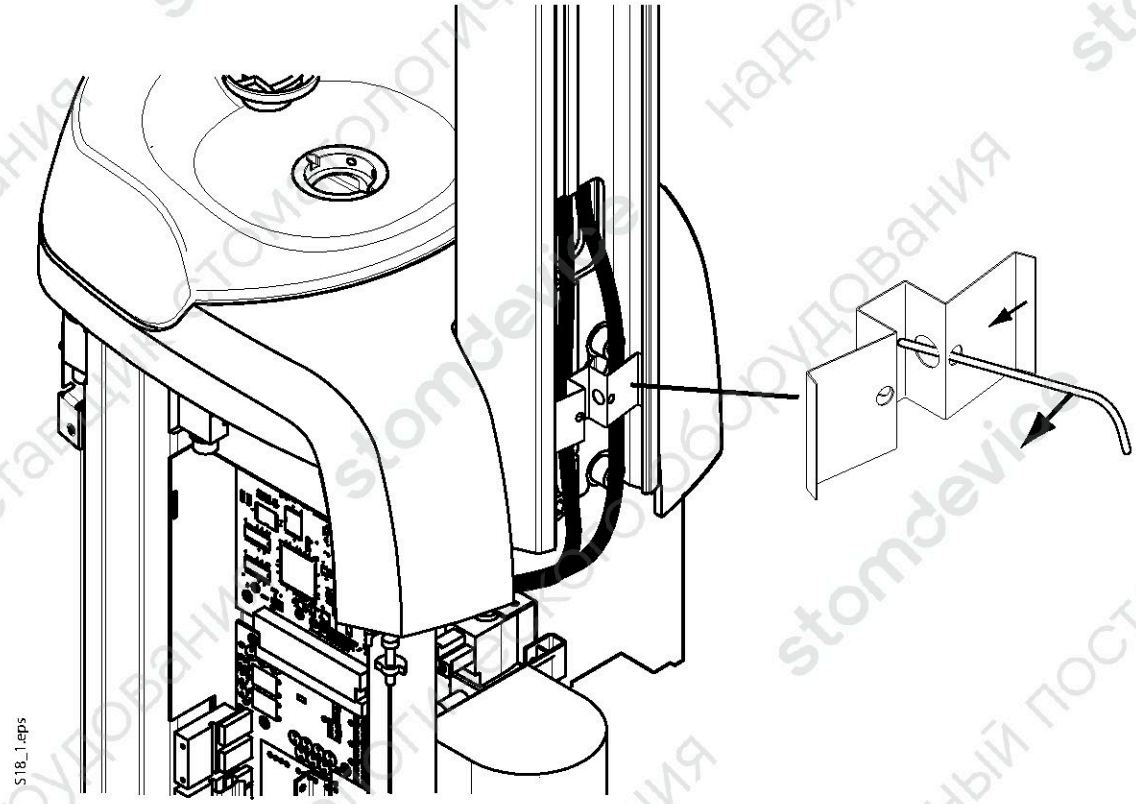
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Rotate the OP delivery arm to its extreme position. Lift the OP delivery arm cables slightly upwards and attach them to the pylon with cable ties (black and white arrow).



Route the arm cables into the cuspidor. Secure the cables with a cable support as follows. Bend the support lugs inside with e.g. Allen key and press the support to its position.

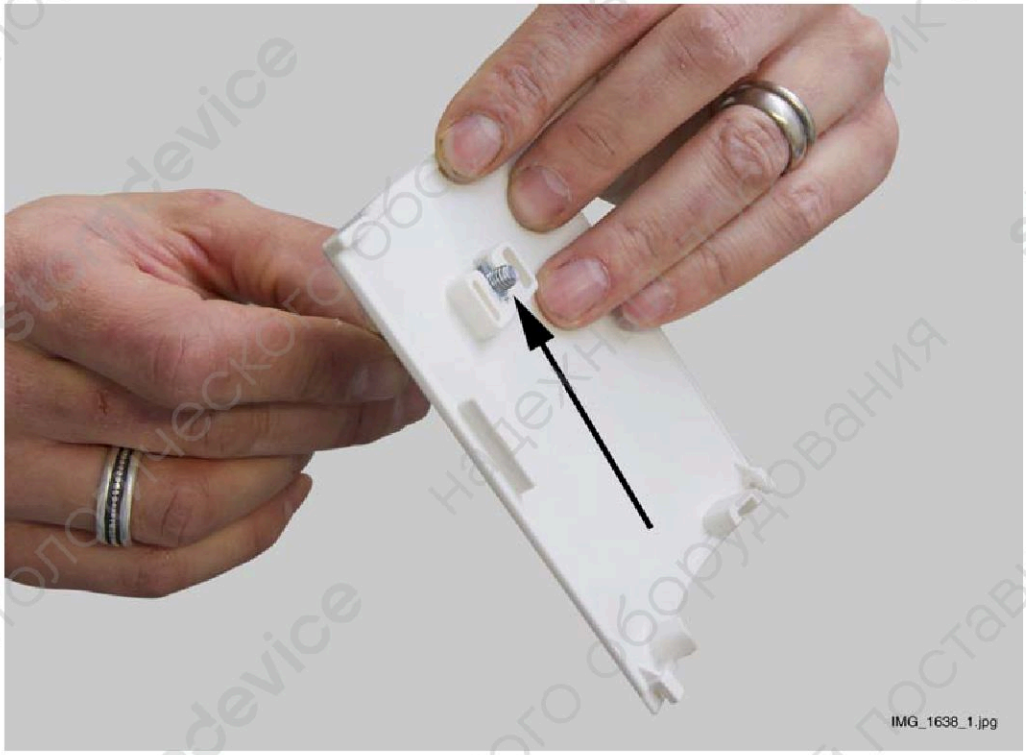


Connect the arm cables and tubes according to the instructions given in section “Connecting the OP delivery arm cables and tubes” on page 70.

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Push the back cover attachment screw through the cover opening into the groove as shown on the figure below.



Attach the back cover to its position.



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Place the bracket arm upper cover to its position. Check that the cover (black arrow) is below the joint step (white arrow) and that the covers fit to each other.



If needed, remove the upper cover and adjust the lower cover position so that the cover fit to each other. Adjust the vertical position as follows. Loosen four screws which attach the angle plate on the arm side using a 3 mm Allen key and move the cover. Tighten the screws.



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Adjust the sideways position as follows. Loosen four cover screws using a 3 mm Allen key and move the cover. Tighten the screws



Attach the upper cover to its position with four screws using a 3 mm Allen key.



Check that there is approx. 3 mm gap between the lower cover and middle joint upper cover.

Attach the other OP delivery arm covers according to the instructions given in section 8.6 “Attaching the OP delivery arm covers” on page 81.

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Attach the pylon covers according to the instructions given in section 10 “ATTACHING THE PYLON COVERS” on page 122.



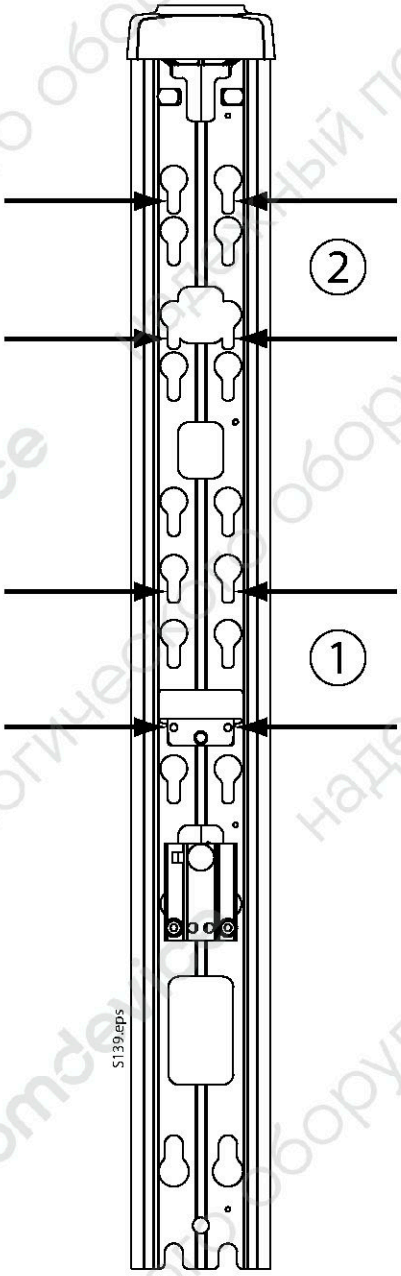
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8.3 Installing the fixed OP delivery arm

Attaching the OP delivery arm

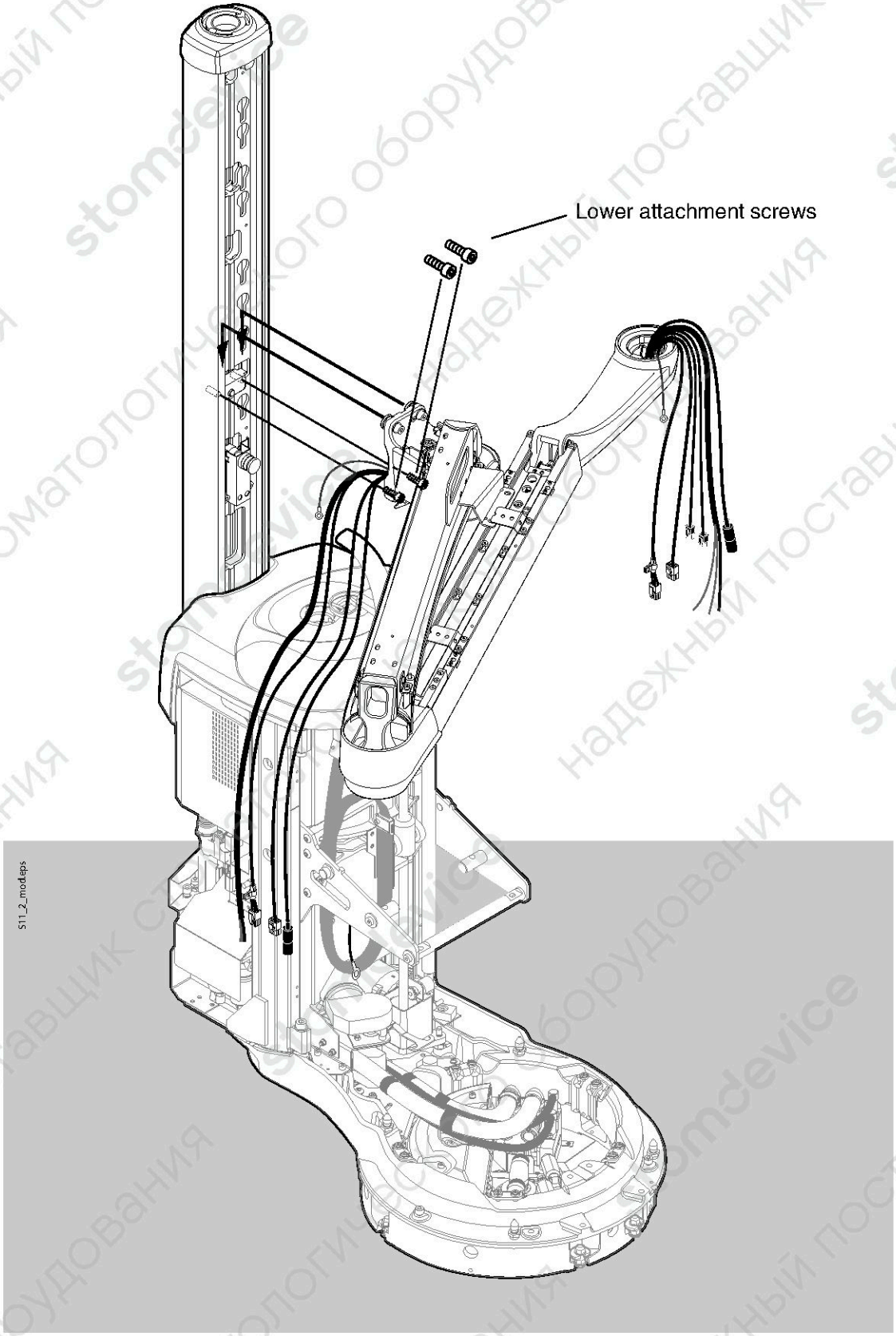
The OP delivery arm is attached to the pylon openings marked with lower arrows (1). The monitor arm is attached to openings marked with upper arrows (2).



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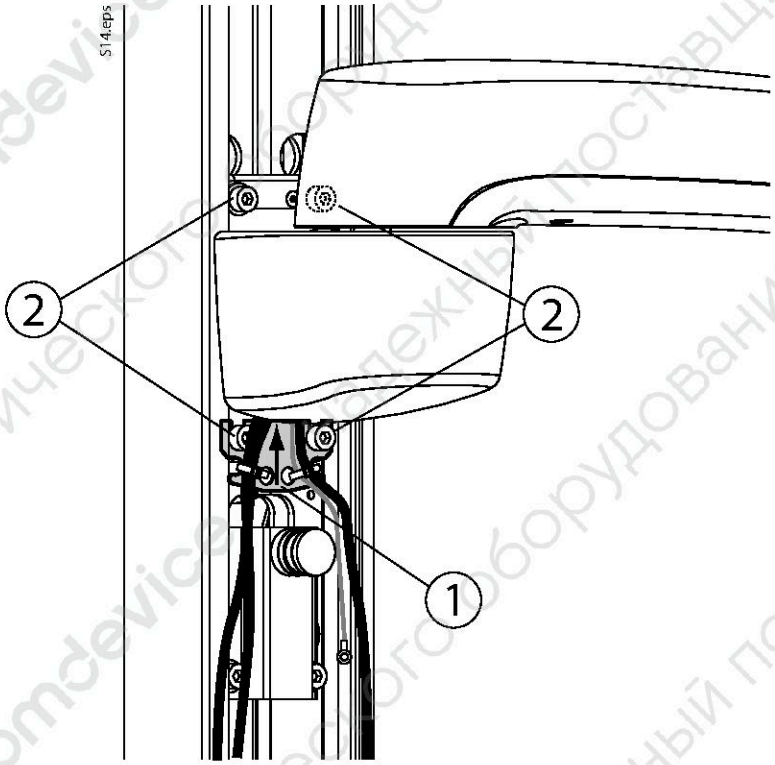
Lift the OP delivery arm to its position. The arm attachment screws must go into the openings on the pylon as shown on the figure below. Make sure that the attachment screws are loosened so that the they go into the openings on the pylon.



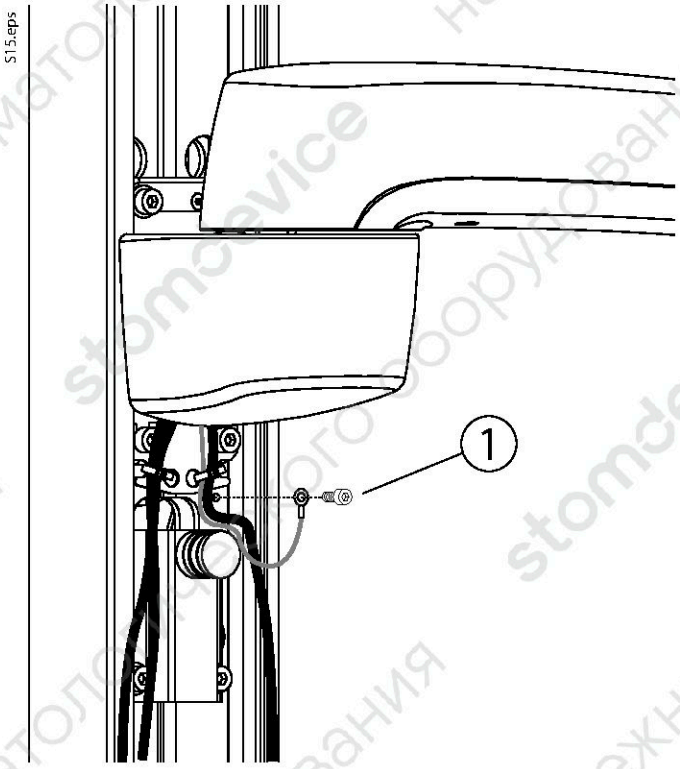
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Attach the OP delivery arm to its position. First attach the lower attachment screws and slide the cable support plate under the screws (1). Tighten the attachment screws using a 6 mm Allen key (2). Make sure that the arm cables are secured with cable ties.



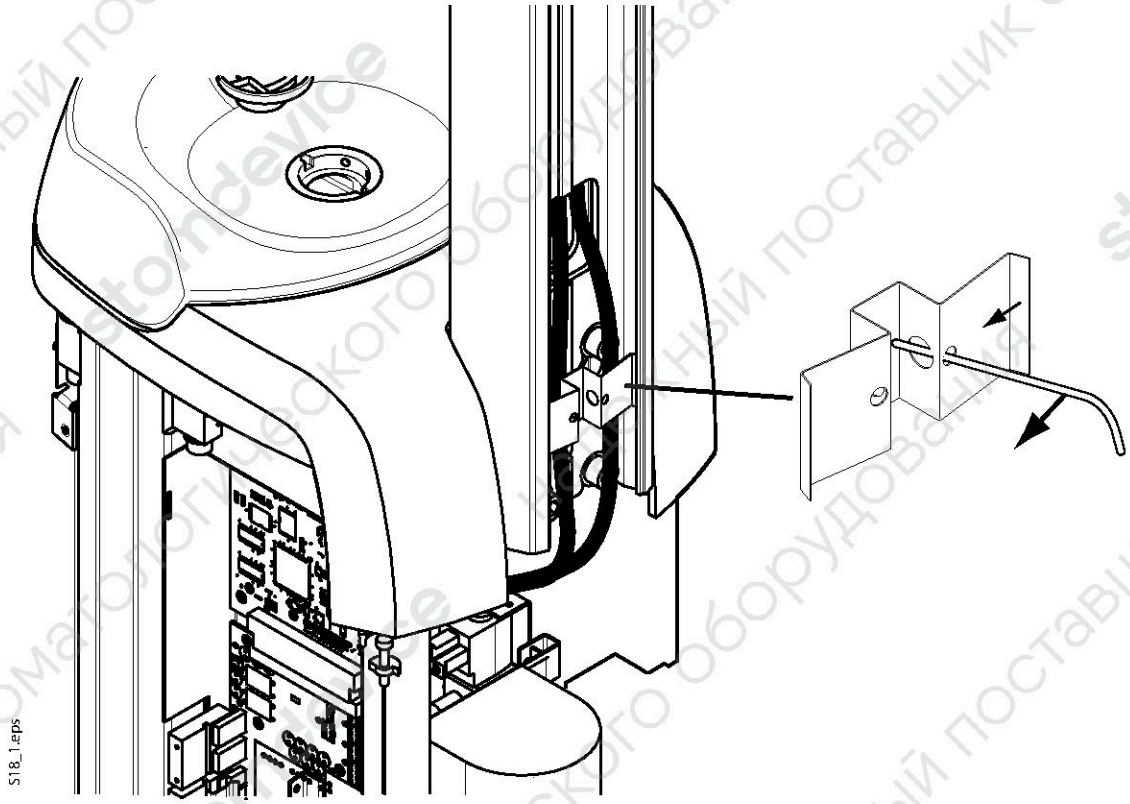
Attach the OP delivery arm grounding cable to the pylon using a 3 mm Allen key (1).



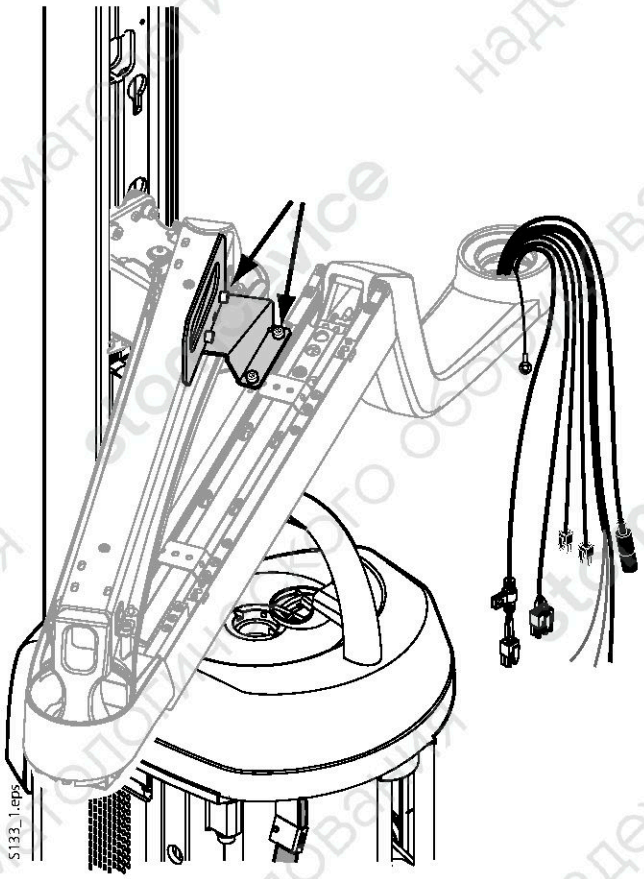
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Route the arm cables into the cuspidor. Secure the cables with a cable support as follows. Bend the support lugs inside with e.g. Allen key and press the support to its position.



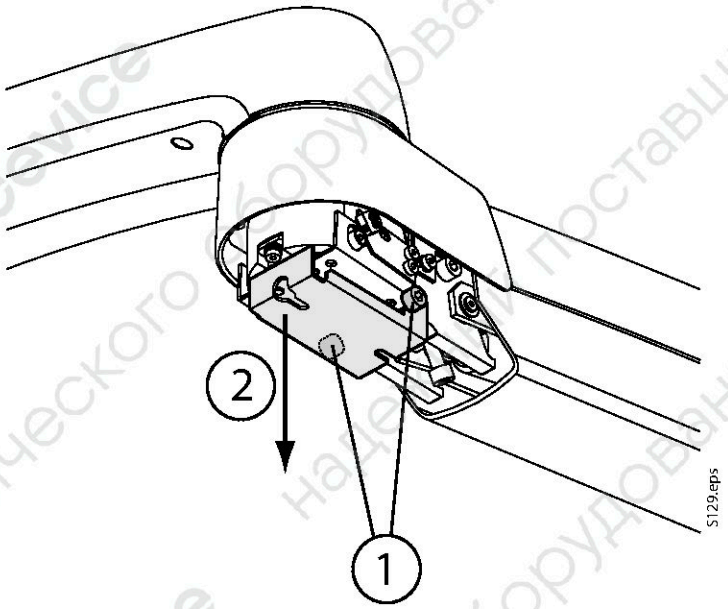
Unscrew the OP delivery arm transport plate attachment screws (first the lower two, then the upper two) and remove the transport plate.



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Loosen the OP delivery arm middle joint transport plate attachment screws (1) and remove the transport plate (2).

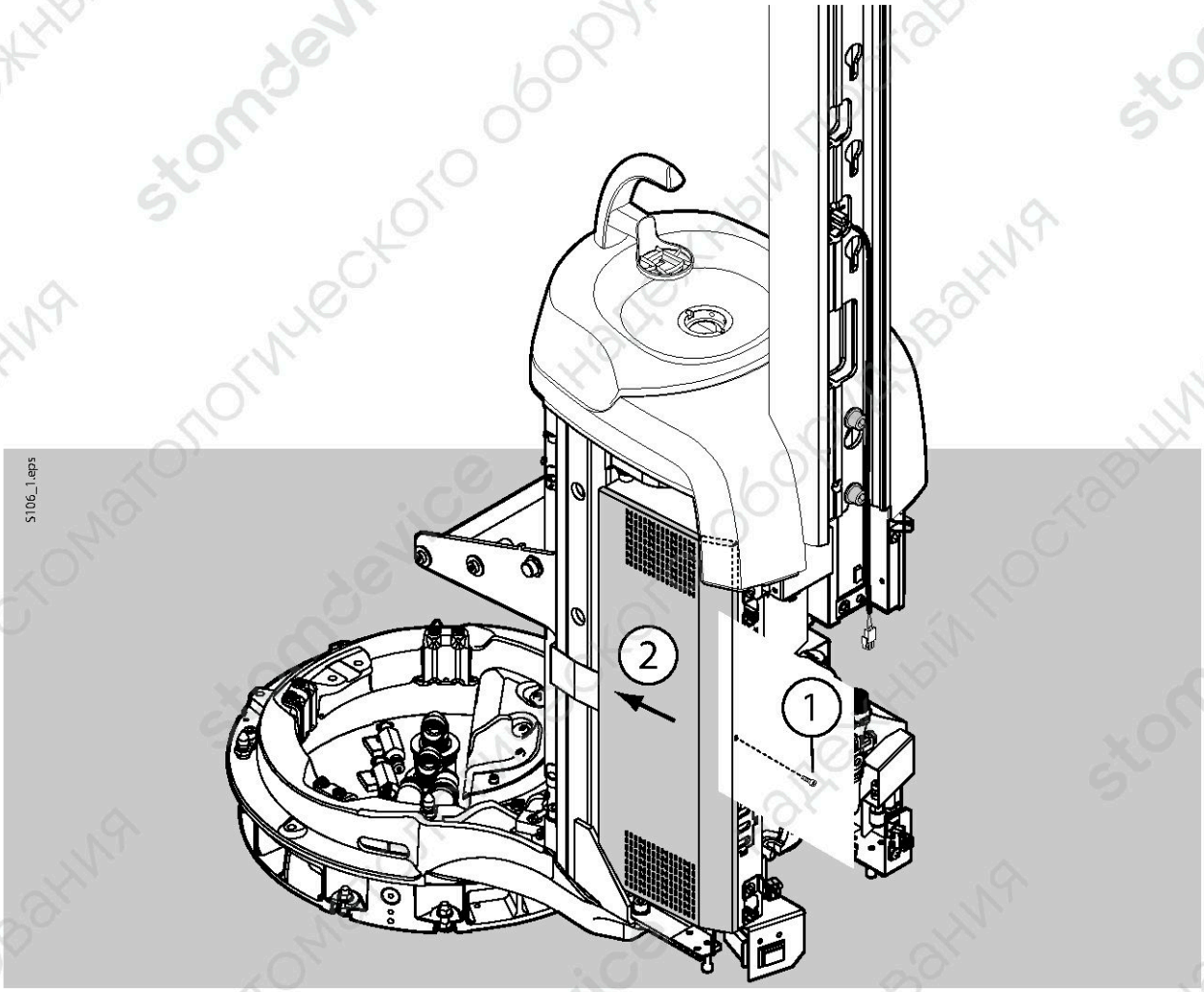


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Connecting the OP delivery arm cables and tubes

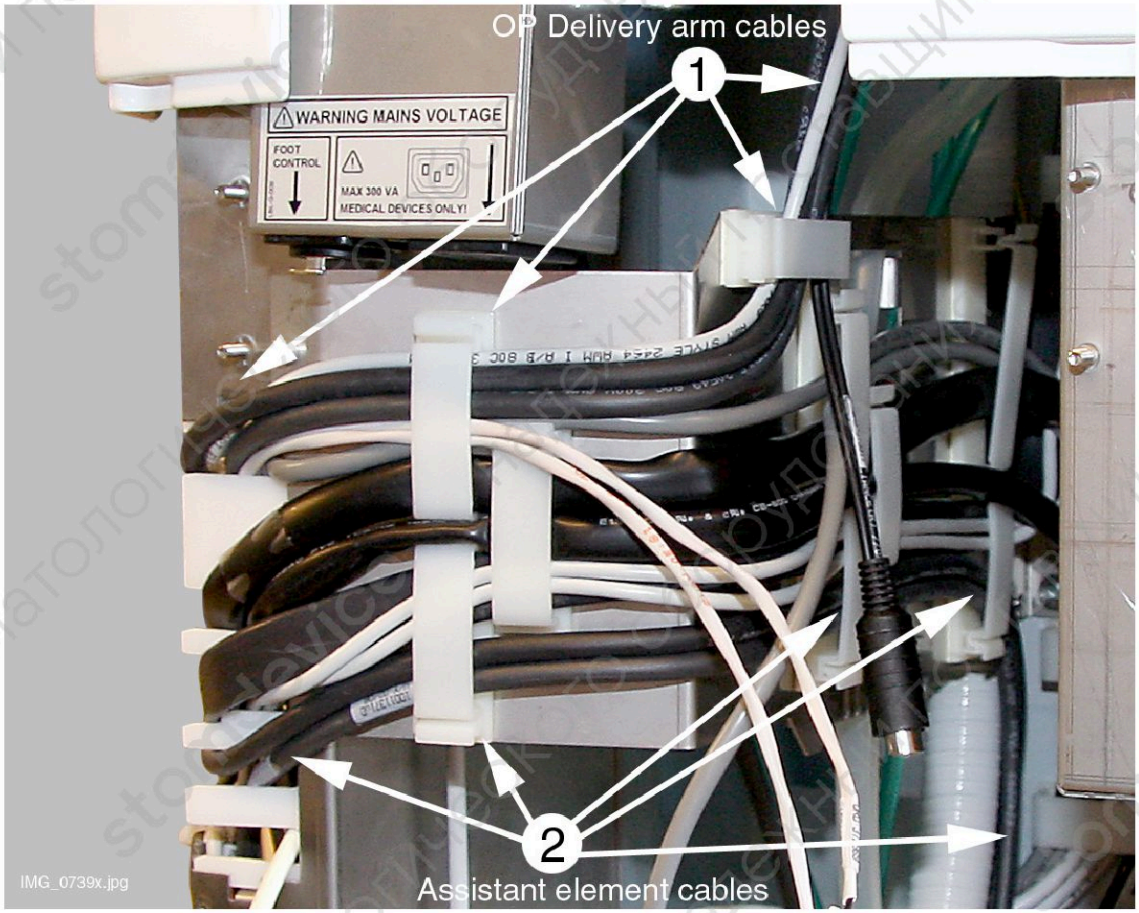
Unscrew the attachment screw using a 2.5 mm Allen key (1) and remove the electronics control box cover (2).



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Route the OP delivery arm cables to the electronics control box and secure them with cable clamps as shown on the figure below.

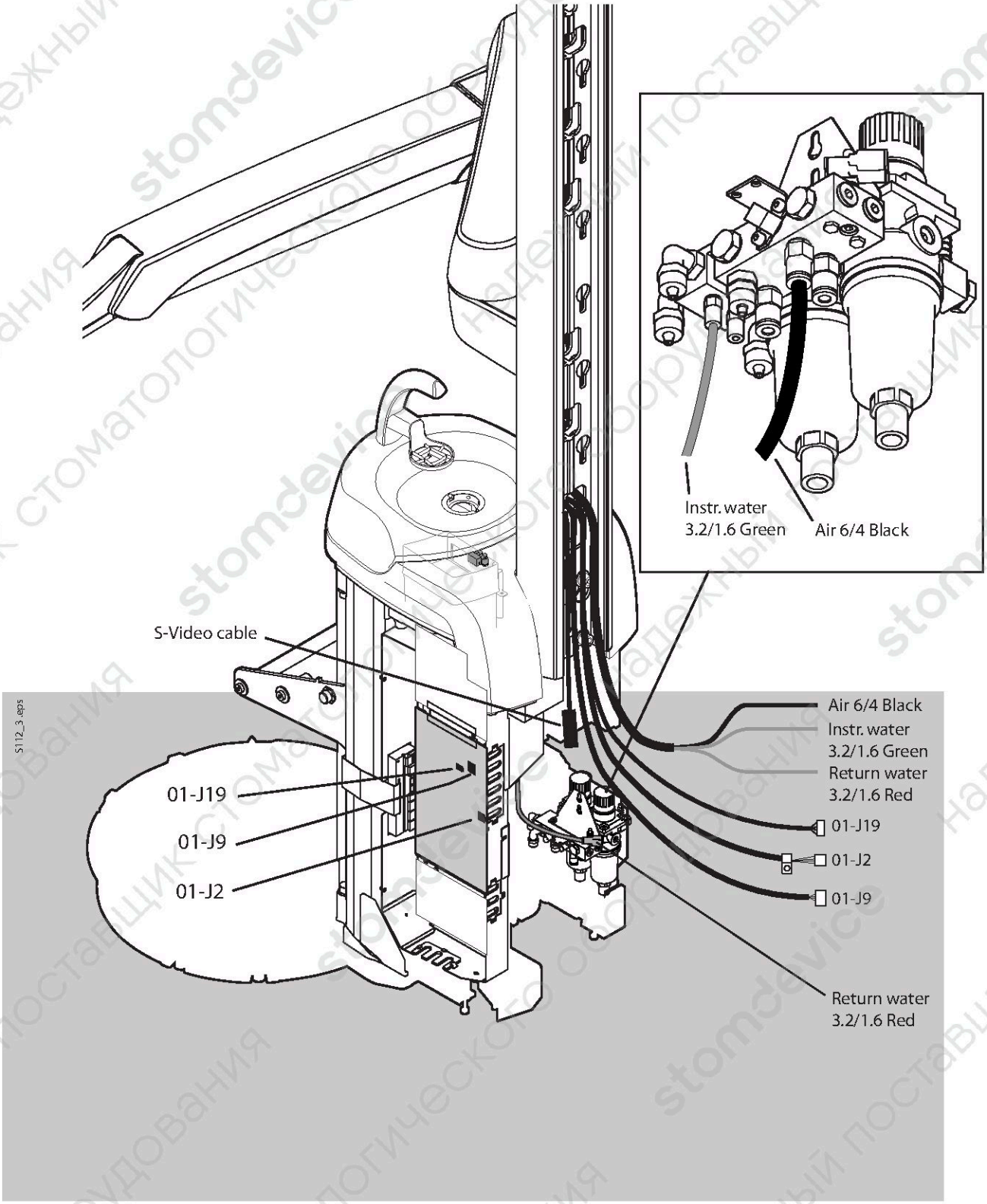


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Connect the cables to connectors on the UPSU PCB as shown on the figure below (refer also to the Sovereign wiring diagram).

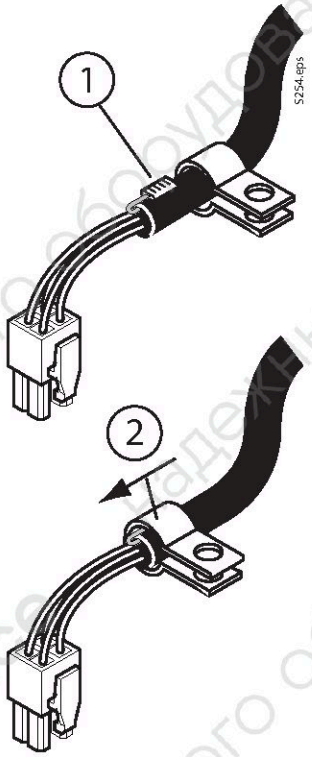
Route the arm tubes into the cuspidor and behind the suction system attachment plate to the block. Connect them as shown on the figure below.



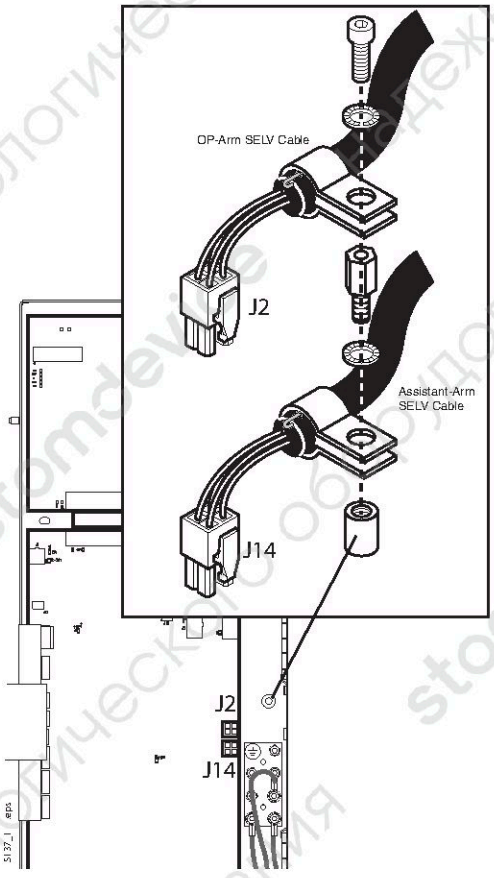
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Check that the ground clip is correctly positioned (1) and slide the grounding collar over the clip (2).



Secure the Selv cable connected to connector J2 as shown on the figure below.



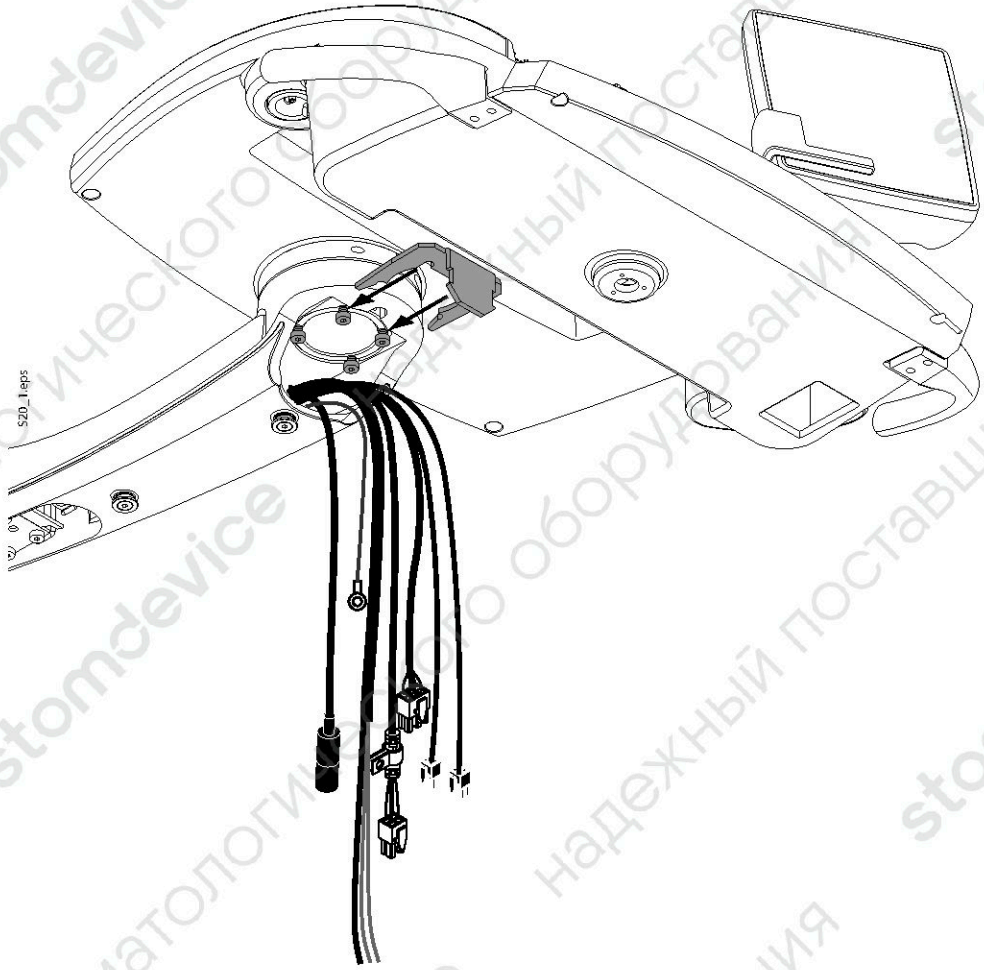
If instrument console is equipped with Intraoral video camera, connect the S-video cable according to the instructions given in section 9.3 “Installing the monitor to the pylon” on page 83,

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8.4 Installing the balanced arm instrument console

Attach the instrument console to the console bracket using the support plate. Tighten the attachment screws using a 3 mm Allen key.

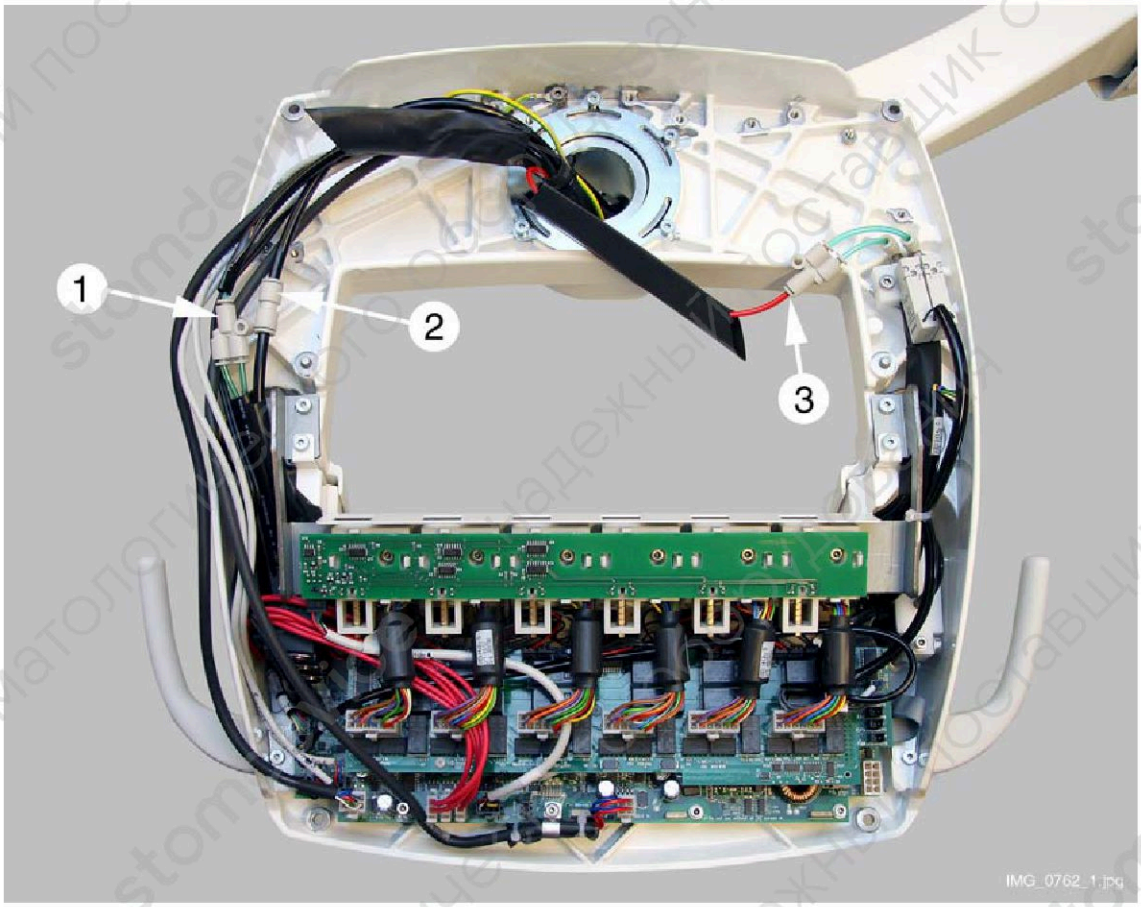


Route the arm cables and tubes to the instrument console.

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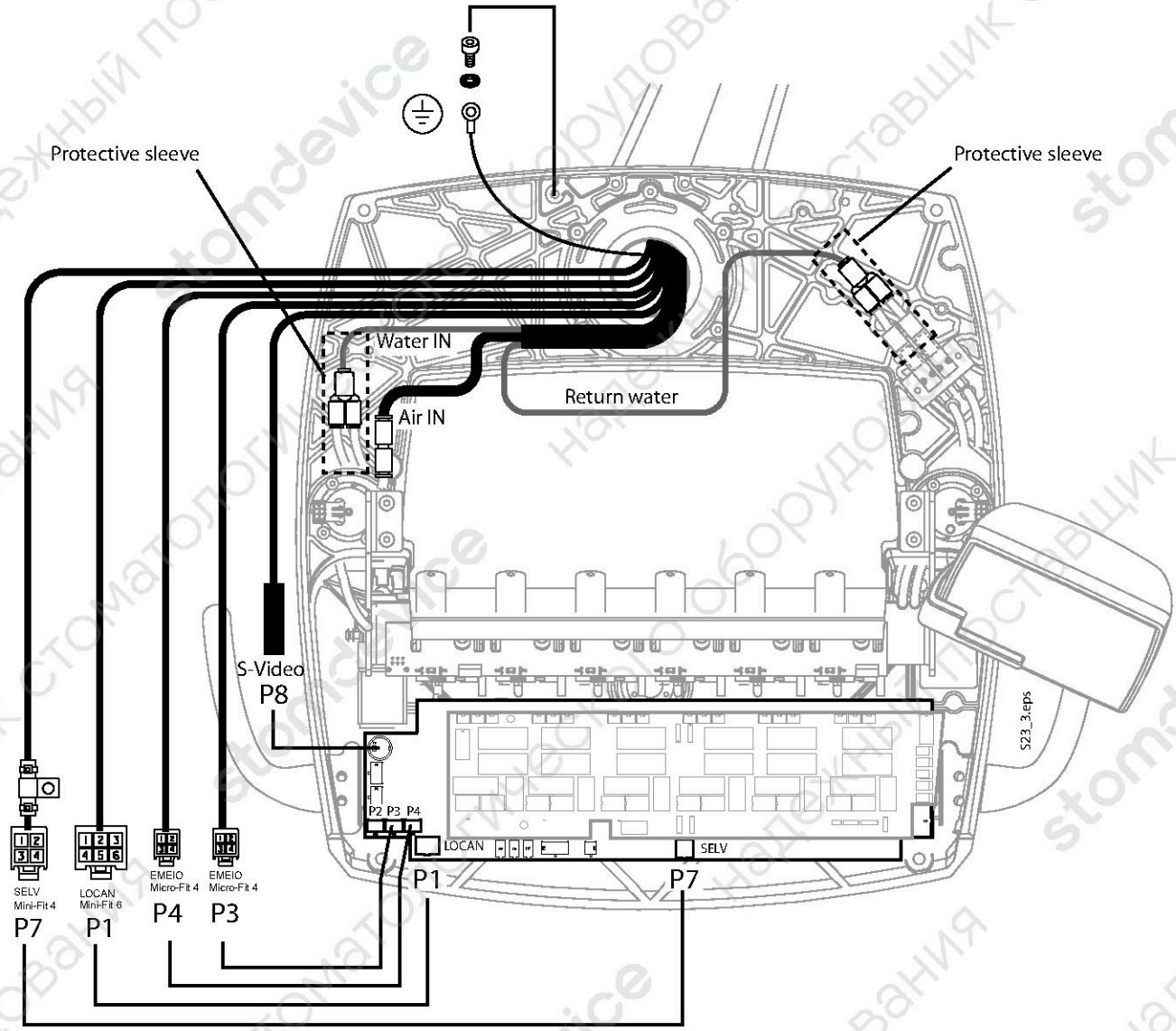
Connect the arm water (1), air (2) and return water (3) tubes as shown on the figure below.



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Connect the cables as shown on the figure below.



Cover the water tube connections with protective sleeves as shown on the figure above.

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Secure the cables with cable ties (1). Secure the Selv cable connected to connector P7 with one attachment screw (2). Make sure that the Selv cable leans on the screw located on the ICON PCB (3).

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8.5 Installing the HT instrument console

Cut the cable tie that binds the arm cables and tubes. Route the cables and tubes through the arm opening as shown on the figure below.

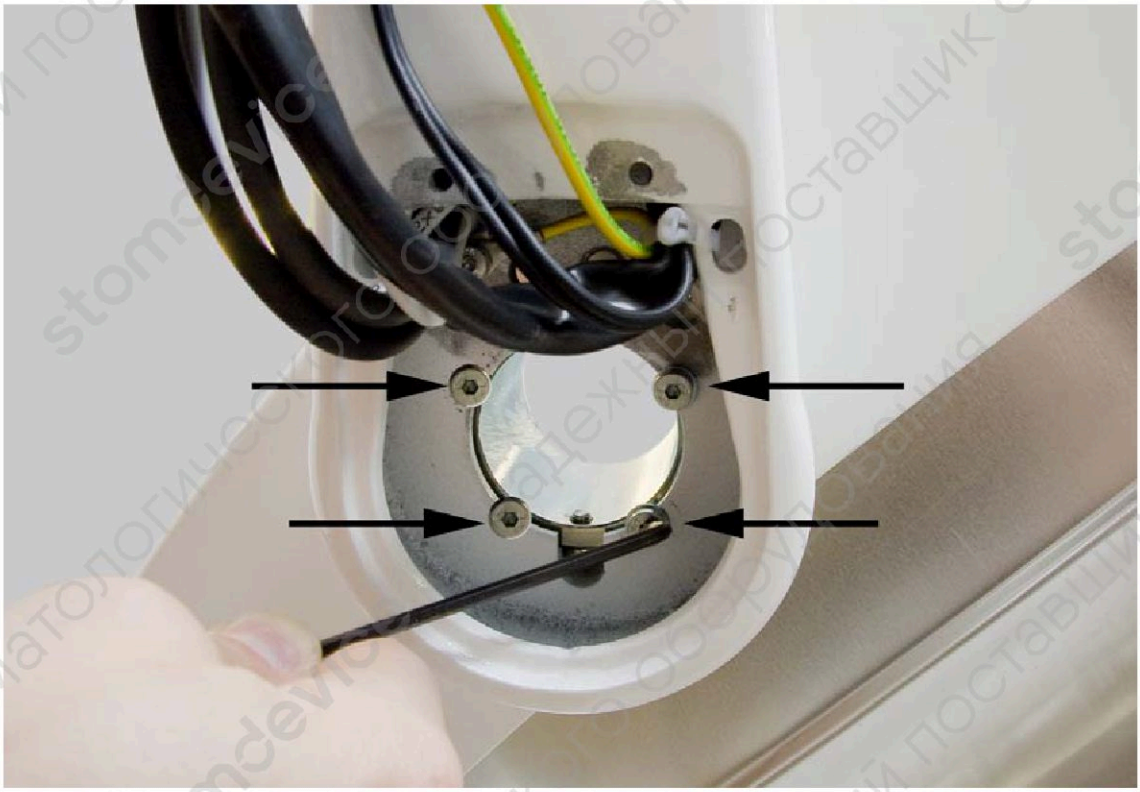
Lift the instrument console to its position so that the pin on the console goes into the arm groove (arrow on the figure below).



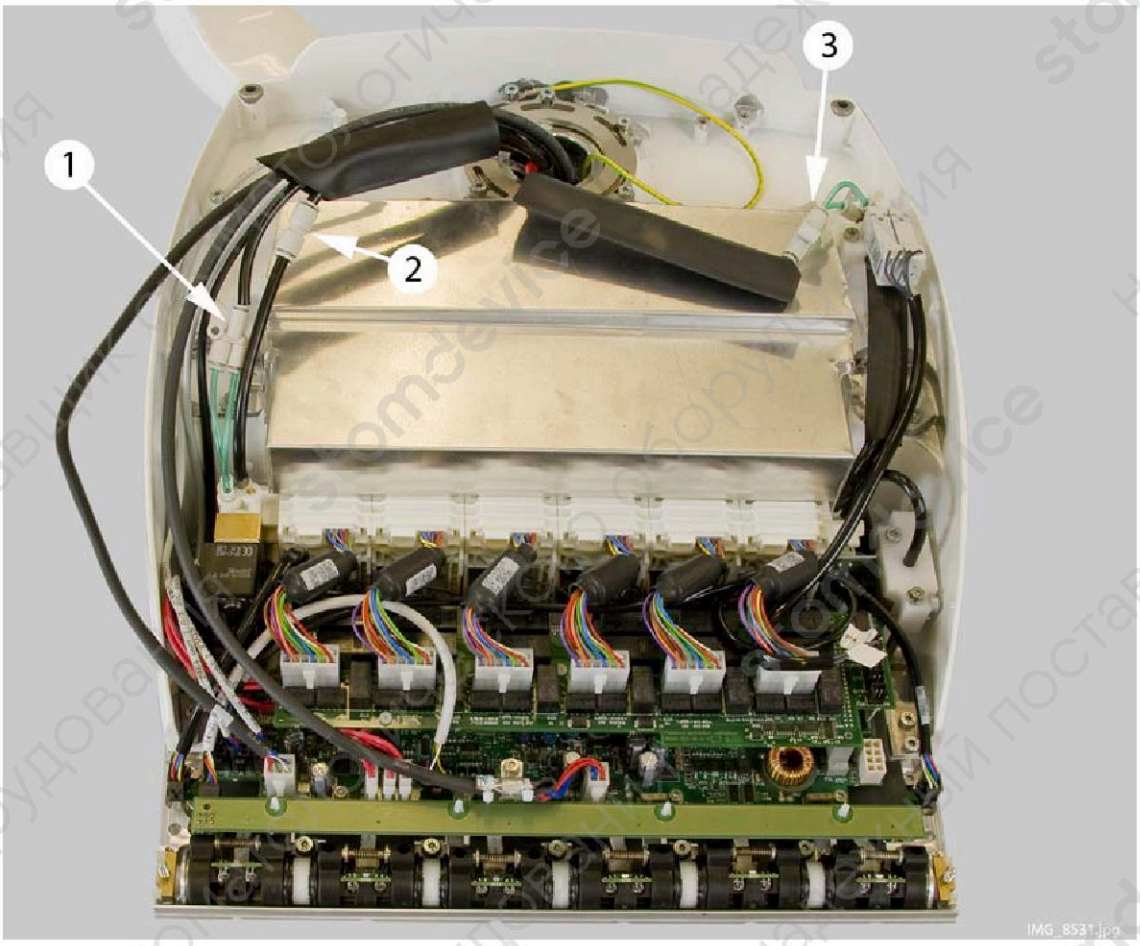
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Attach the instrument console to the console arm with four attachment screws using a 3 mm Allen key.



Route the arm cables and tubes to the instrument console. Connect the arm water (1), air (2) and return water (3) tubes as shown on the figure below.



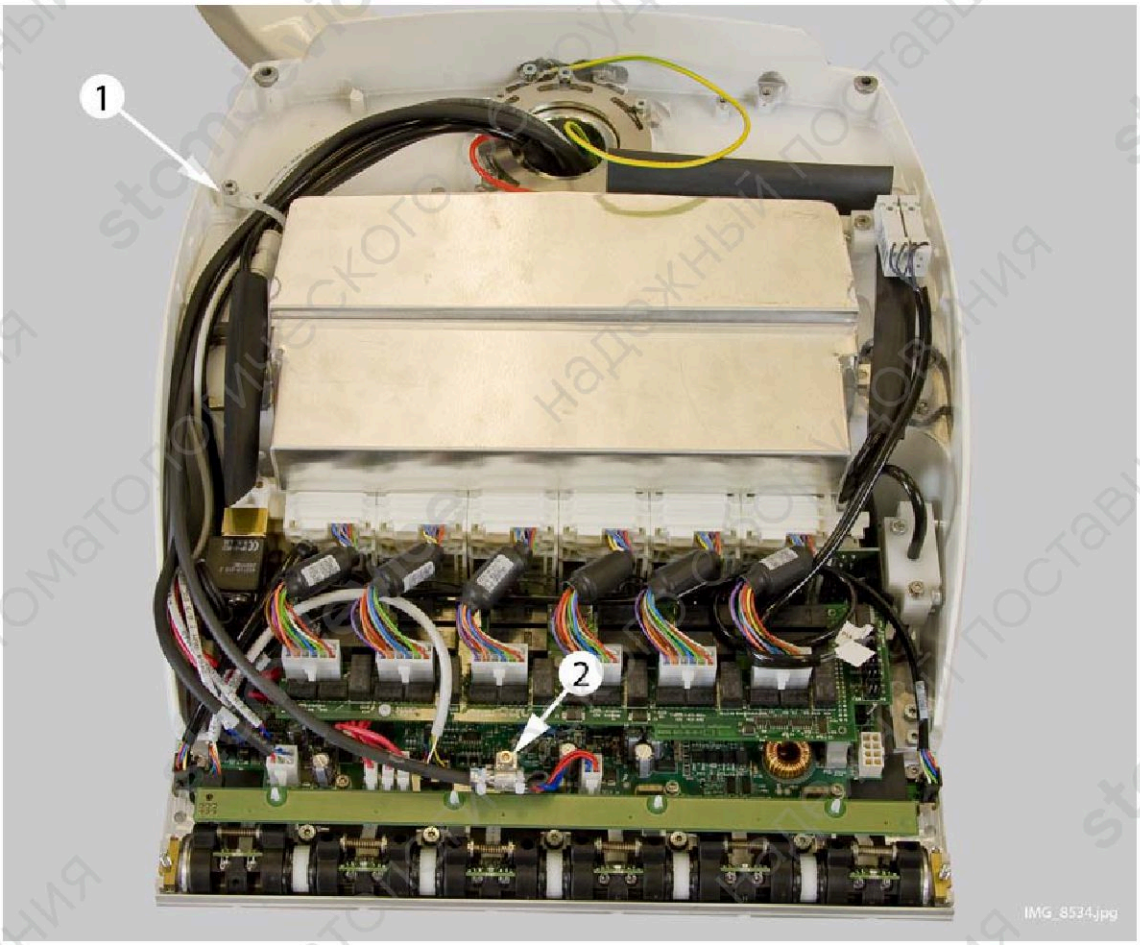
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Connect the cables as shown on the figure below.

Cover the water tube connections with protective sleeves.

Secure the cables with cable ties (1). Secure the Selv cable connected to connector P7 with one attachment screw (2).

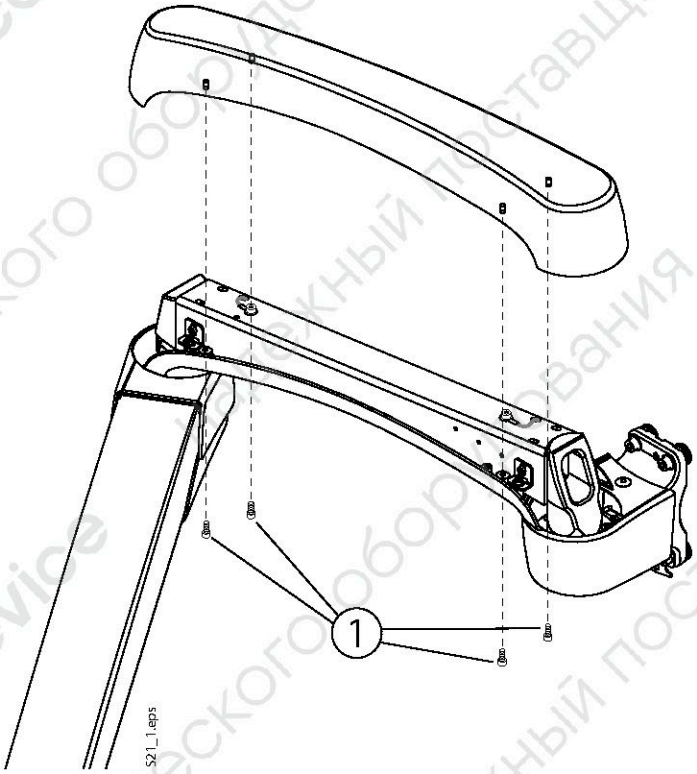


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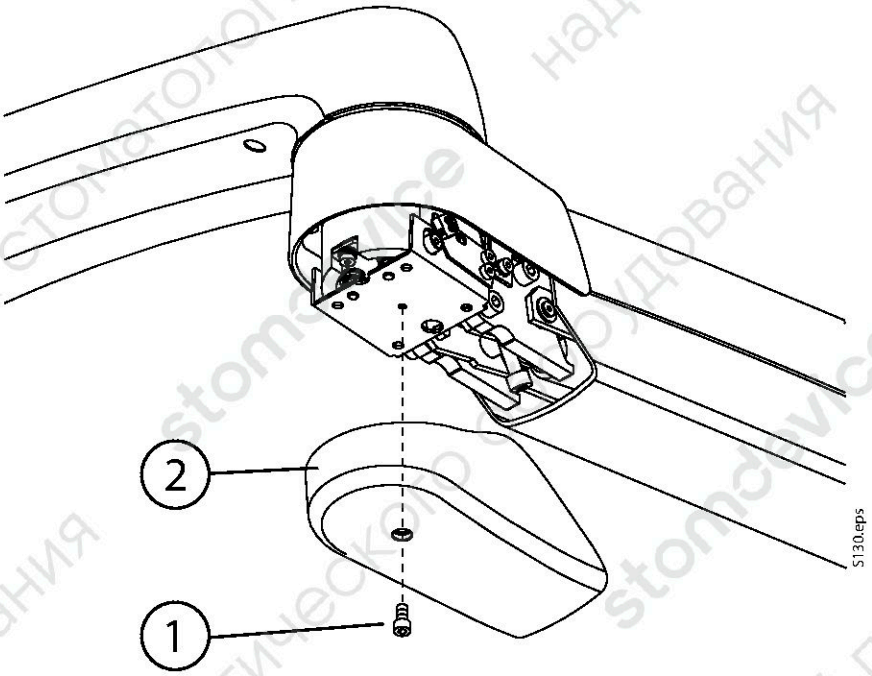
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8.6 Attaching the OP delivery arm covers

Fixed OP delivery arm: Attach the console bracket cover to its position with four attachment screws (1).



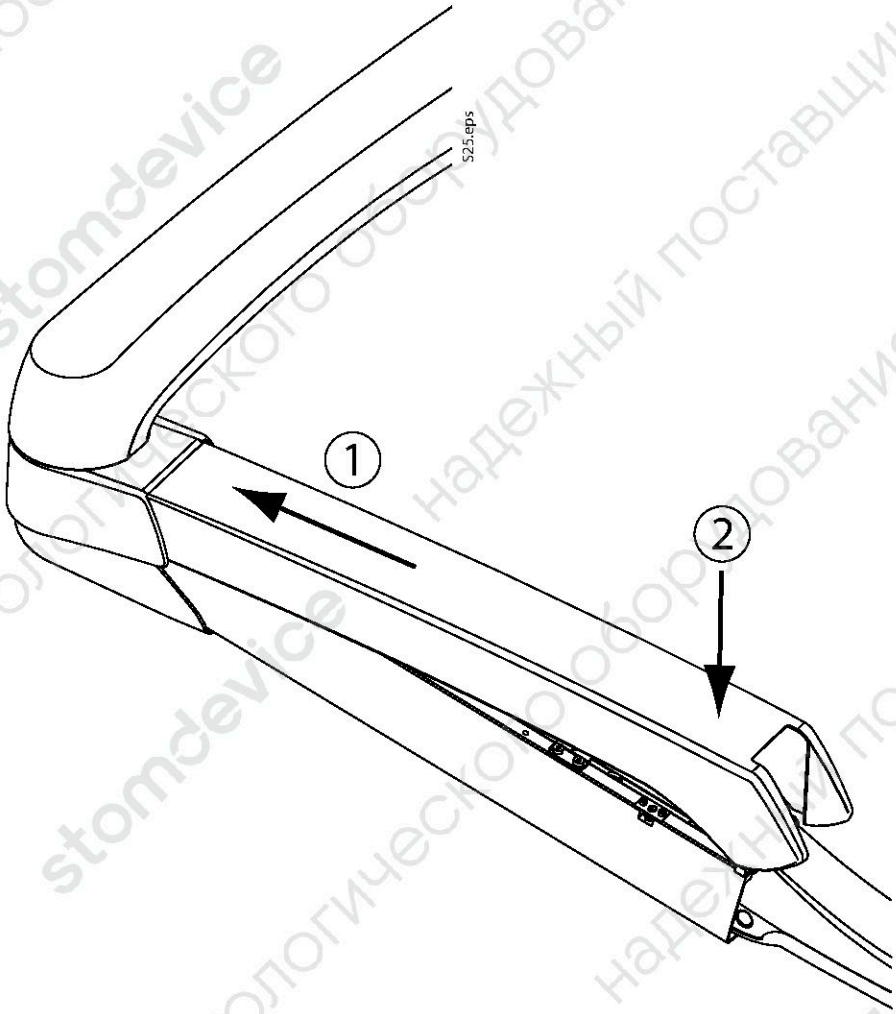
Attach the OP-delivery arm middle joint cover (2) with one attachment screw (1).



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Press the OP delivery arm to its lowest position and slide the cover to below the joint cover (1) and press the cover to its position (2).

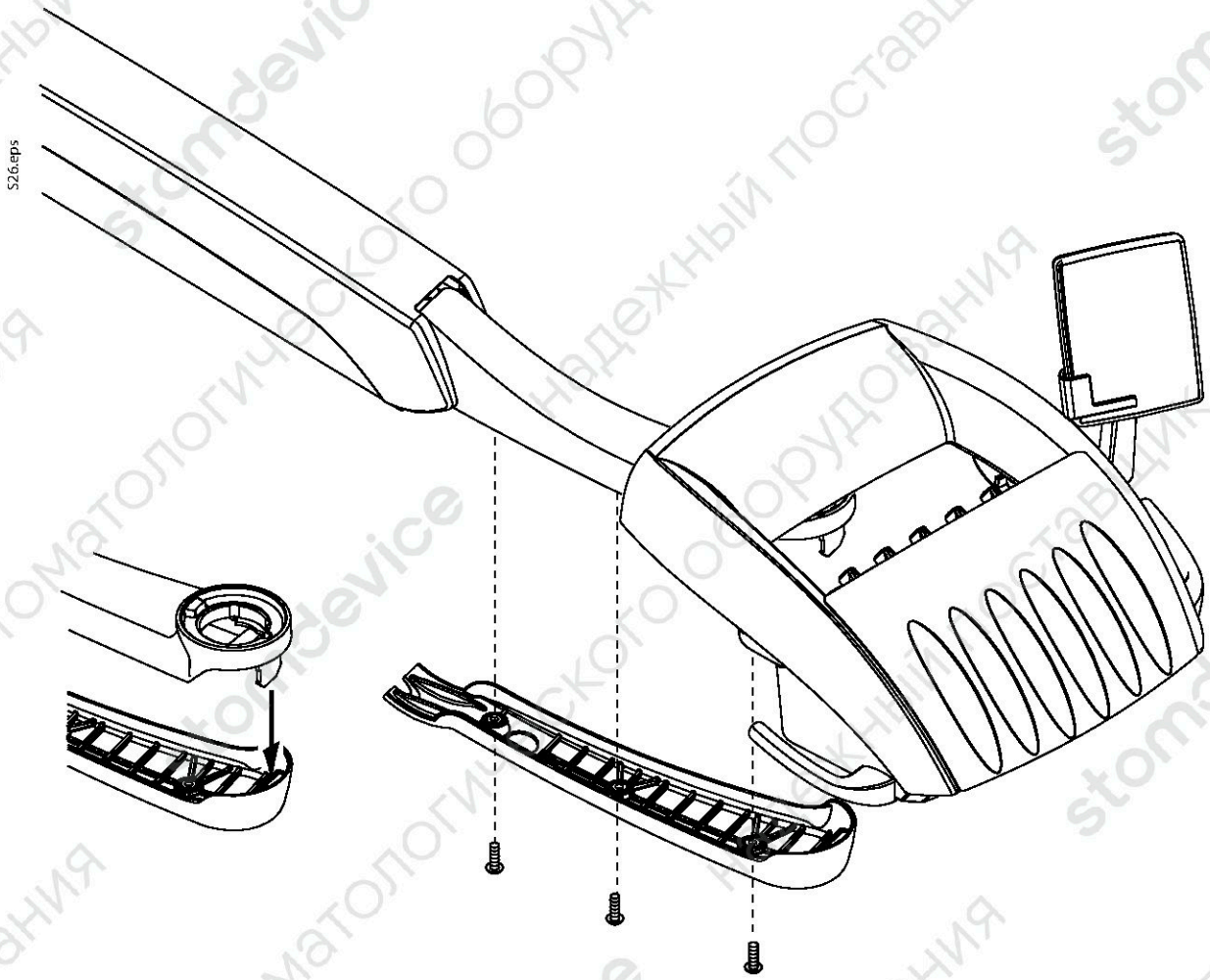


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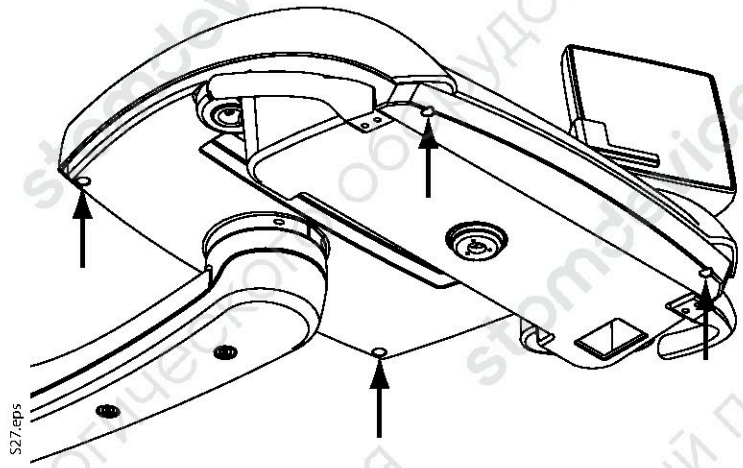
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Balanced arm instrument console covers

Attach the console bracket lower cover as follows. Place the cover to its position so that the lug on the arm goes into the cover groove. Attach the arm with three screws using a 3 mm Allen key.



Attach the instrument console upper cover using a 3 mm Allen key.



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HT instrument console covers

Attach the console joint cover with two attachment screws using a 3mm Allen key.



Attach the instrument console upper cover using a 3 mm Allen key



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8.7 Attaching/detaching the graphic user interface (GUI)

The graphic user interface can be attached to either side of the instrument console or to the patient chair.

Attaching the GUI to the right side of the instrument console

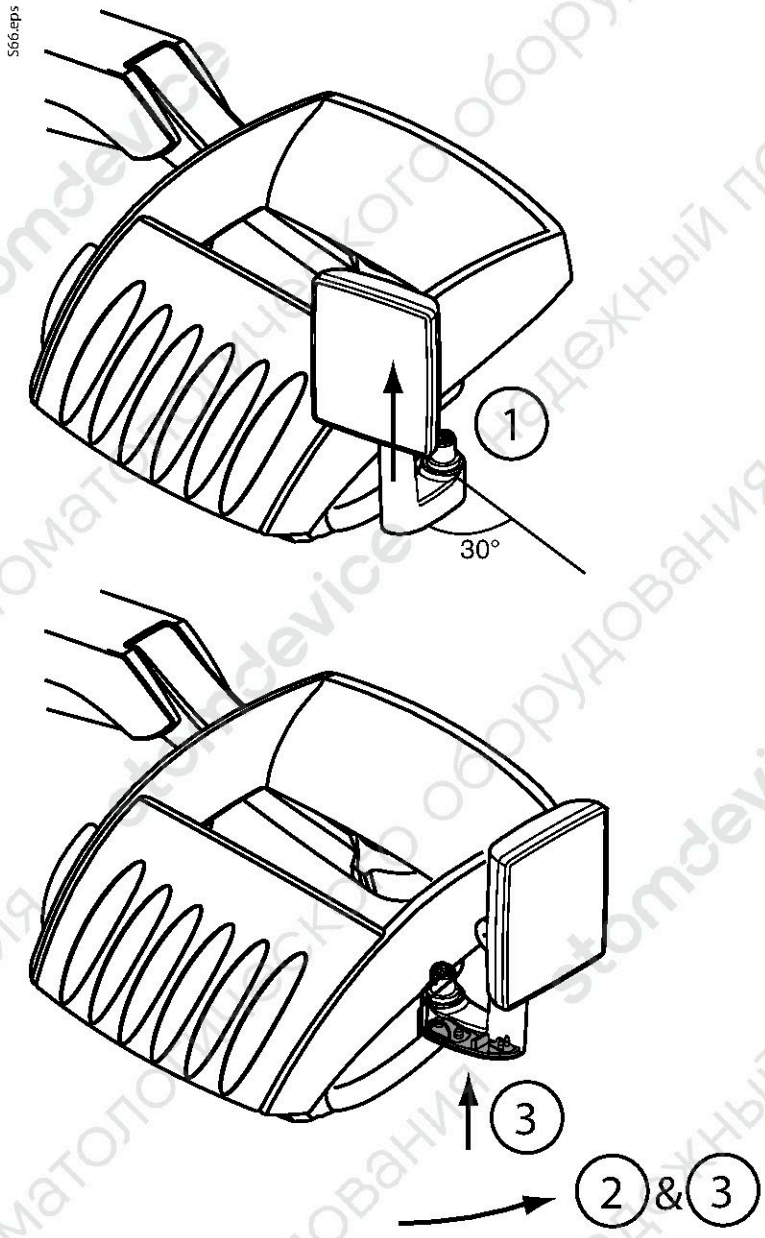
To make the attachment easier turn the GUI screen away from the GUI arm.

Push the GUI arm into the attachment opening in position where the GUI arm is rotated approx. 30° forwards as shown on the figure below (1). Attach the GUI to the console by rotating the GUI arm counterclockwise until you hear a click sound (2 & 3).

Attaching the GUI to the left side of the instrument console

To make the attachment easier turn the GUI screen away from the GUI arm.

Push the GUI arm into the attachment opening in position where the GUI arm is rotated approx. 30° forwards as shown on the figure below. Attach the GUI to the console by rotating the GUI arm clockwise until you hear a click sound.



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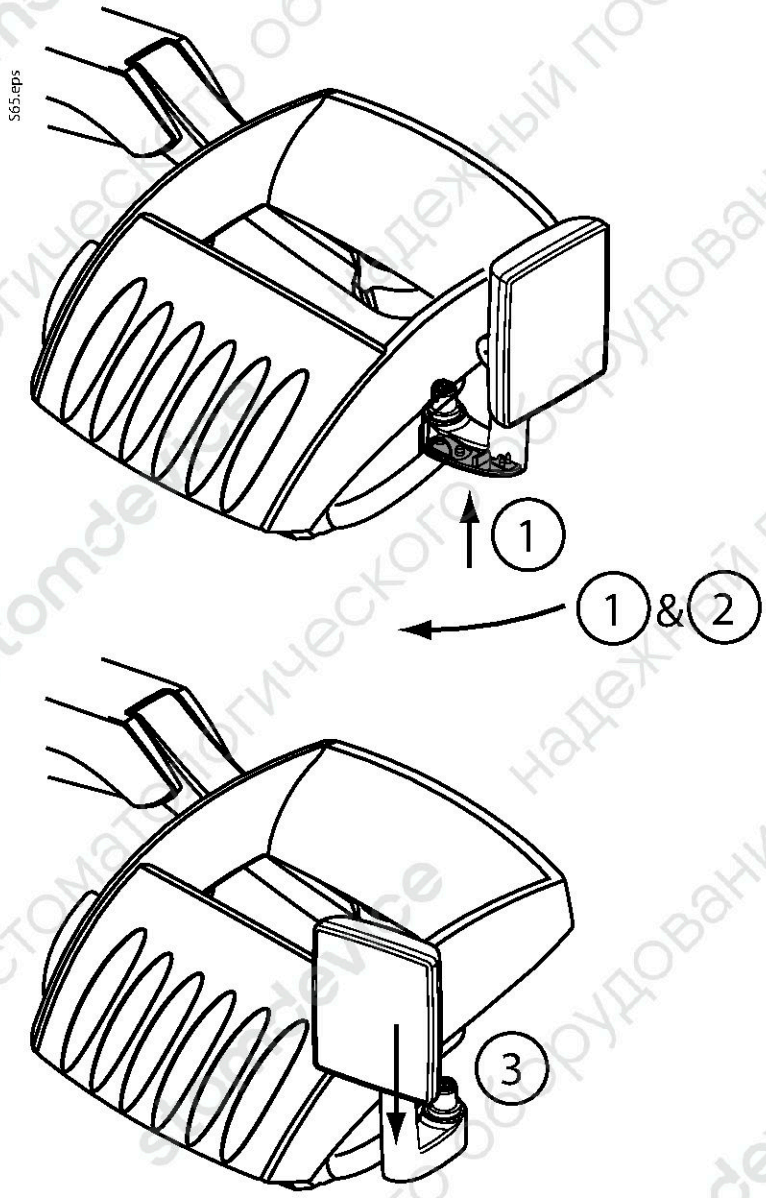
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Detaching the GUI from the instrument console

To make the detachment easier turn the GUI screen outwards (see figure below).

Press the locking button located underside the GUI arm (1) and turn the GUI arm approx. approx. 30° clockwise (right side) (2) or counterclockwise (left side).

Detach the GUI by pulling the arm out from the instrument console (3).



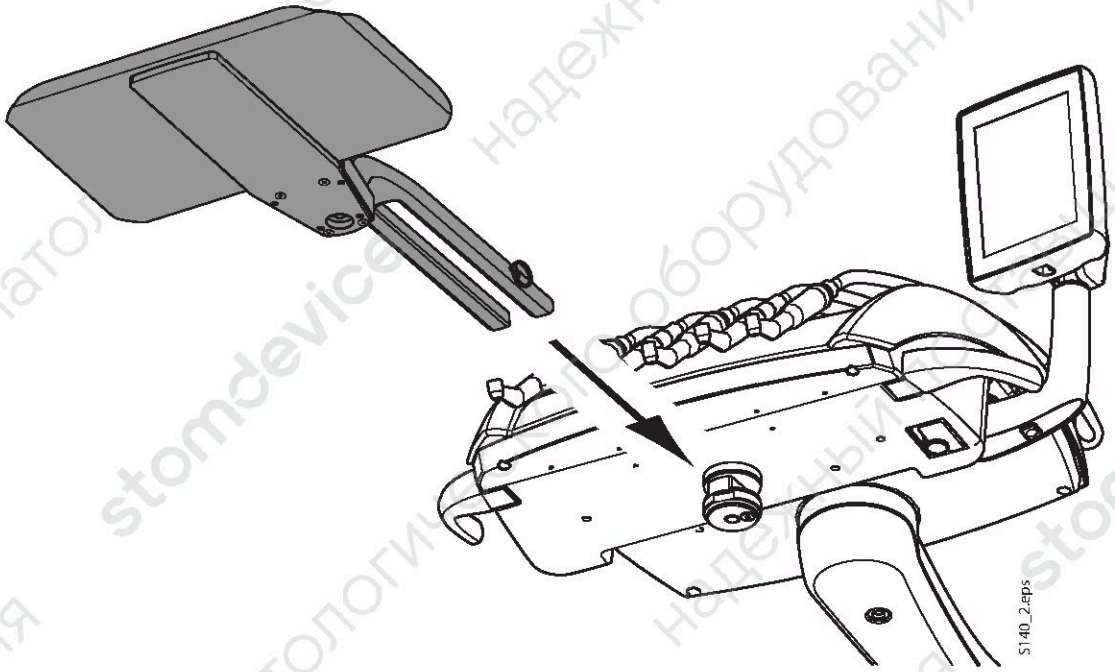
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9 INSTALLING THE PYLON AND ARM ACCESSORIES

9.1 Attaching tray to the balanced arm instrument console

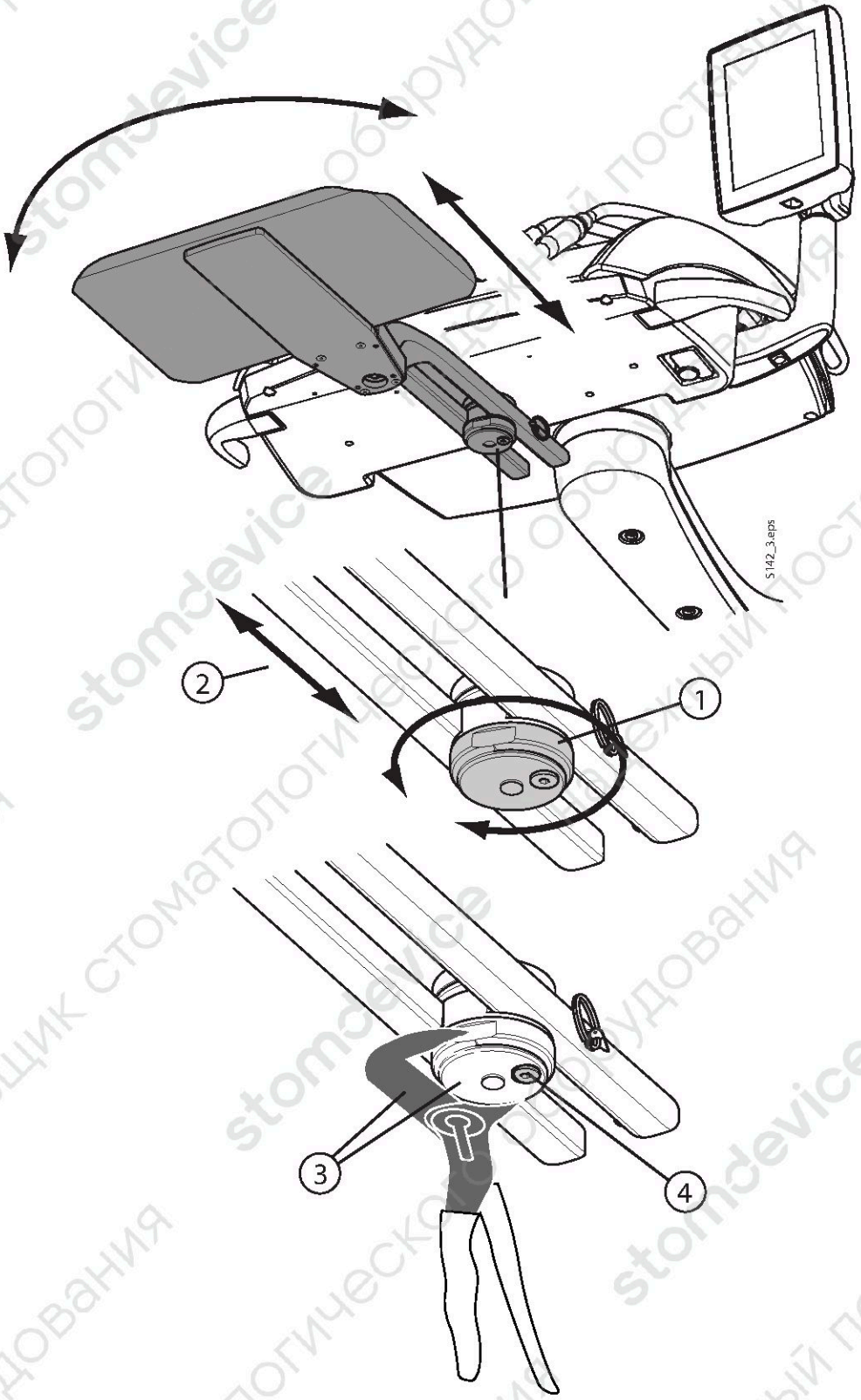
The mounting arm is attached to the instrument console by pushing it to its position.



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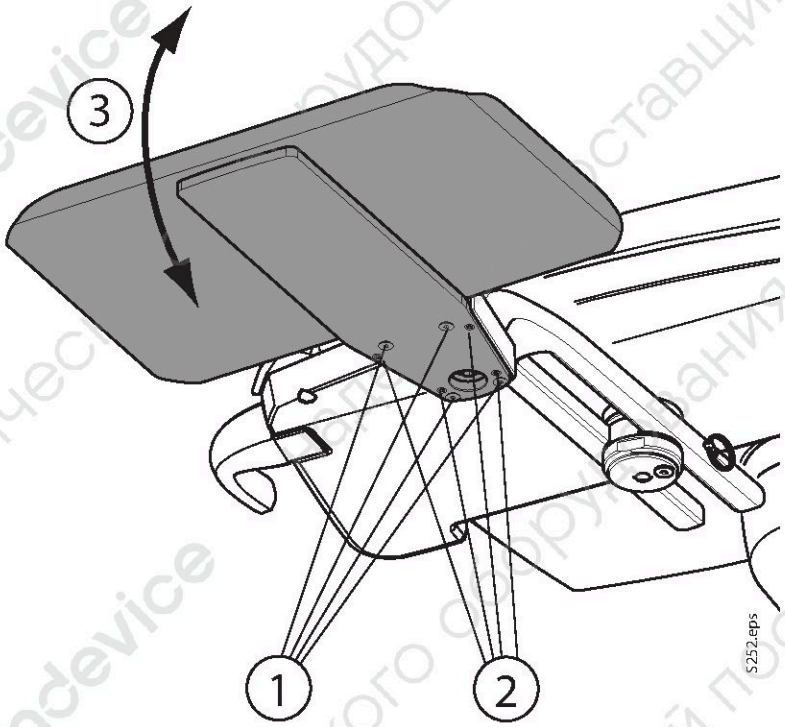
The friction of the tray arm movements can be adjusted. Loosen the joint attachment screw using a 3 mm Allen key (1). Rotate the plate manually and move the tray arm (2). Hold the plate in position with pliers (3) and tighten the attachment screw (4).



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The angle of the tray table can be adjusted as follows. Loosen the securing screws (1) and adjust the angle (3) with four adjustment screws (2). Tighten the securing screws.

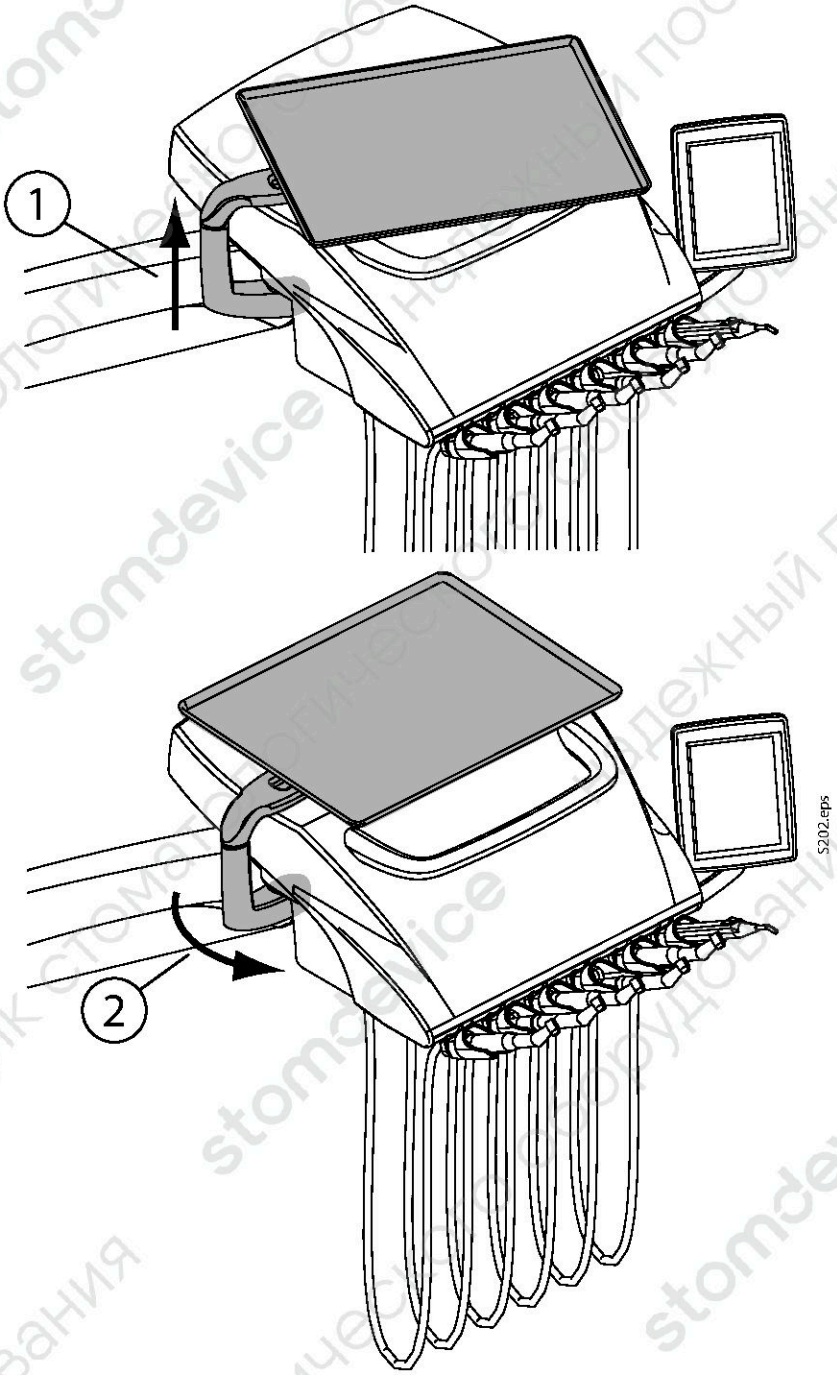


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9.2 Attaching rotating tray to the HT instrument console

To attach the tray table, push the tray mounting arm into the attachment opening in a position where the tray mounting arm is rotated approx. 30° backward as shown in the figure (1). Attach the tray mounting arm to the instrument console by rotating the tray mounting arm counterclockwise (when the tray table is placed on the left side of the console) or clockwise (when the tray table is placed on the right side of the console) (2).

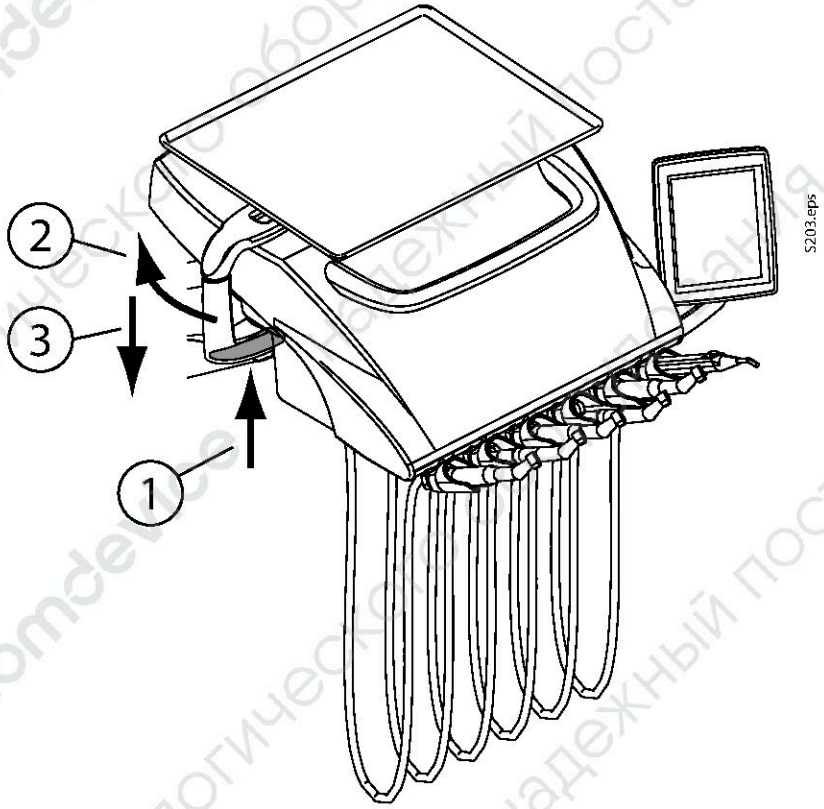


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To detach the tray table, press the locking button located underneath the tray mounting arm (1) and turn the tray mounting arm approximately 30° clockwise (2) (when the tray table is placed on the left side of the console) or counterclockwise (when the tray table is placed on the right side of the console).

Detach the tray by pulling the arm out from the instrument console (3).

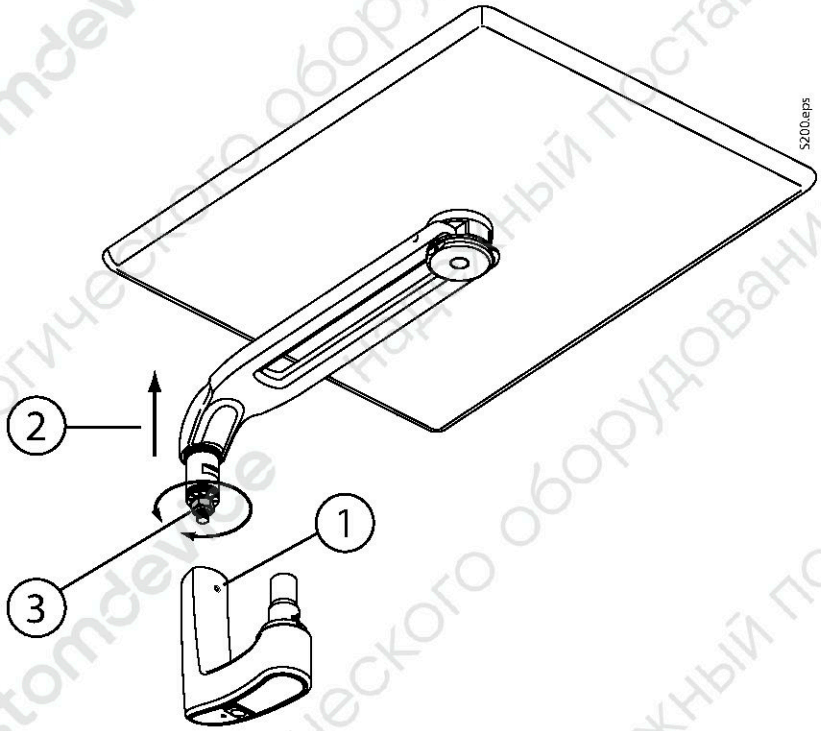


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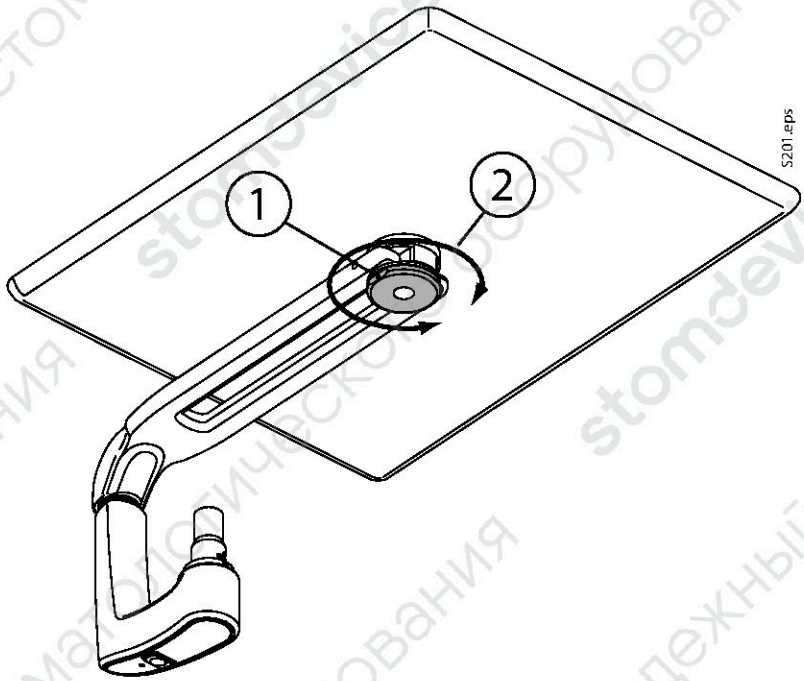
Adjusting rotational friction of the tray arm

Loosen the tray handle locking screw using a 3 mm Allen key (1). Detach the tray assembly from the handle by lifting it up (2). Adjust the rotational friction of tray arm by tightening/loosening the adjustment nut with a 13 mm fork spanner (3). Tightening the nut increases the friction. Attach the handle and tighten the locking screw.



Rotational friction of the tray table

Loosen the tray joint locking screw using a 1.5 mm Allen key (1). Adjust the rotational friction of tray table by turning the attachment plate with pliers (2). Turning the plate clockwise increases the friction. Tighten the locking screw.



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9.3 Installing the monitor to the pylon

NOTE **This section applies to both Planmeca white (HFN17F) and Planmeca Vision monitors. Any installation methods differentiating from each other are specified in text.**

NOTE **The PC connected to the monitor must be:**
- IEC-approved (CE marked)
- located outside the patient area and
- protectively earthed.

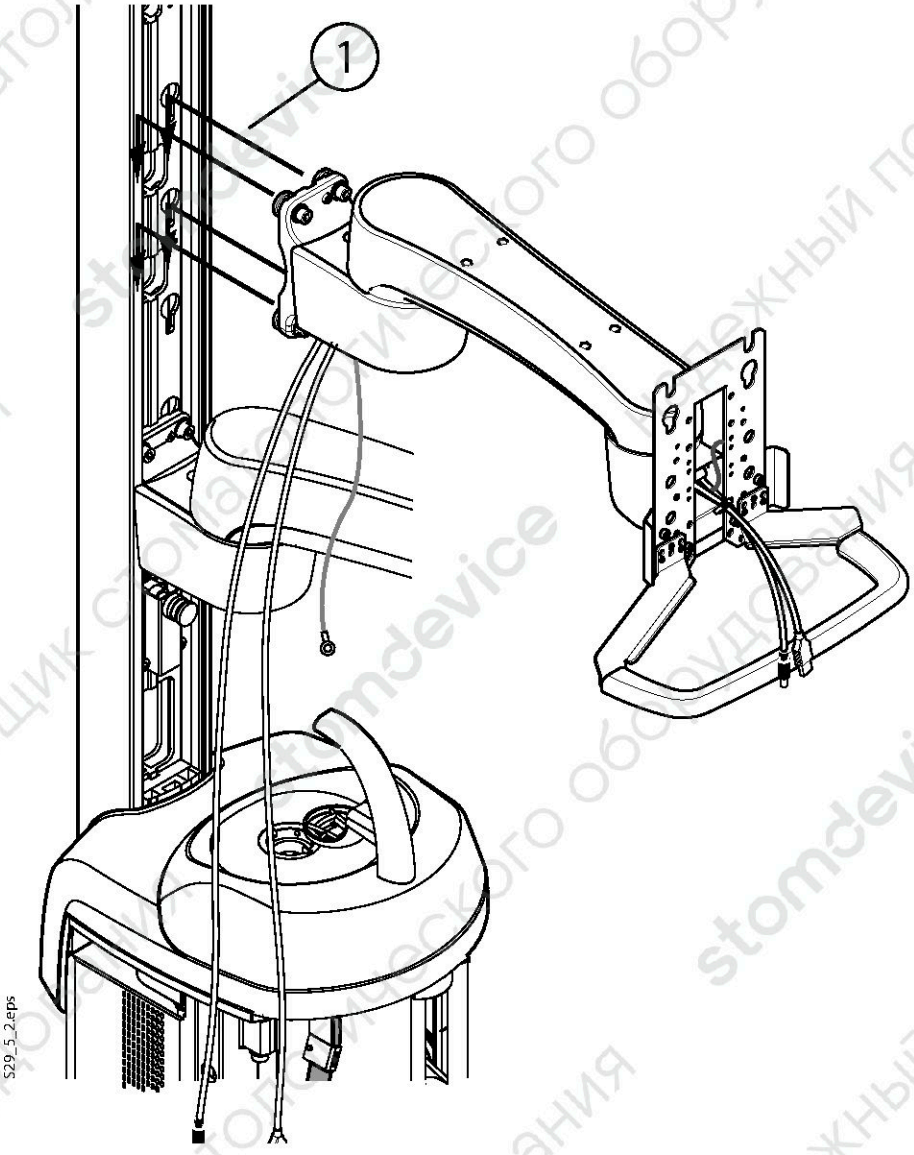
CAUTION ***Do not connect items which are not specified as part of the system.***

NOTE **Be careful not to scratch the screen.**

Installing the monitor arm

NOTE **Install the monitor arm before installing the operating light.**

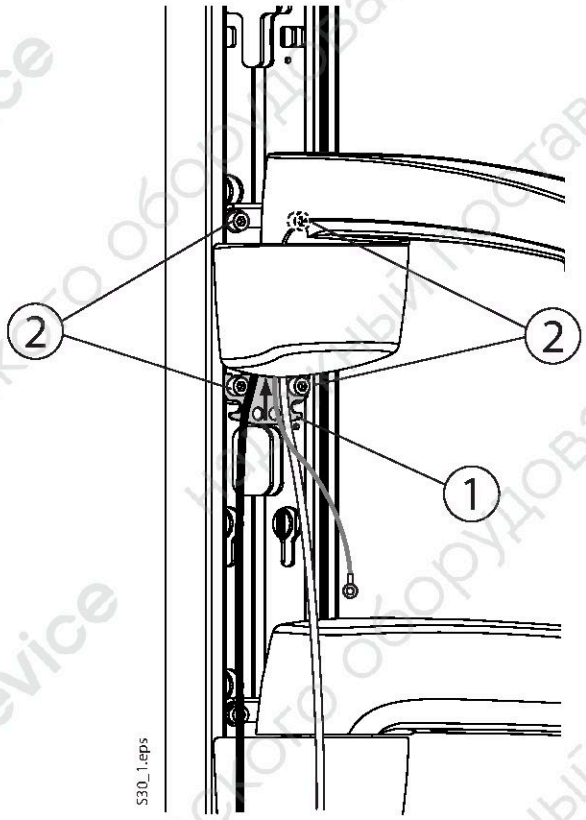
Lift the monitor arm to its position. The arm attachment screws must go into the openings on the pylon as shown on the figure below (1). Make sure that the attachment screws are loosened so that the they go into the openings on the pylon.



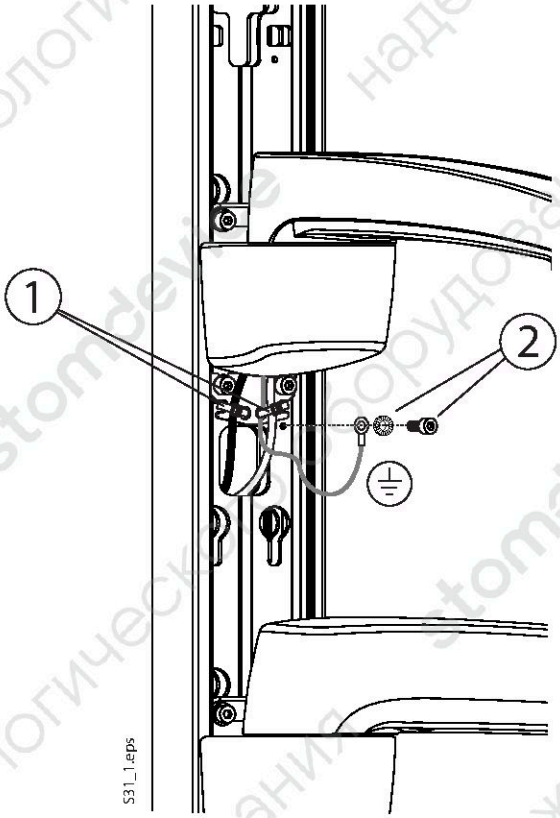
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Attach the monitor arm to its position. First slide the cable support plate under the lower attachment screws (1). Tighten the attachment screws (2).



Secure the cables with cable ties (1). Attach the grounding cable to the pylon (2).



The monitor cables are attached to the monitor arm at the factory with a cable tie. Cut the cable tie.

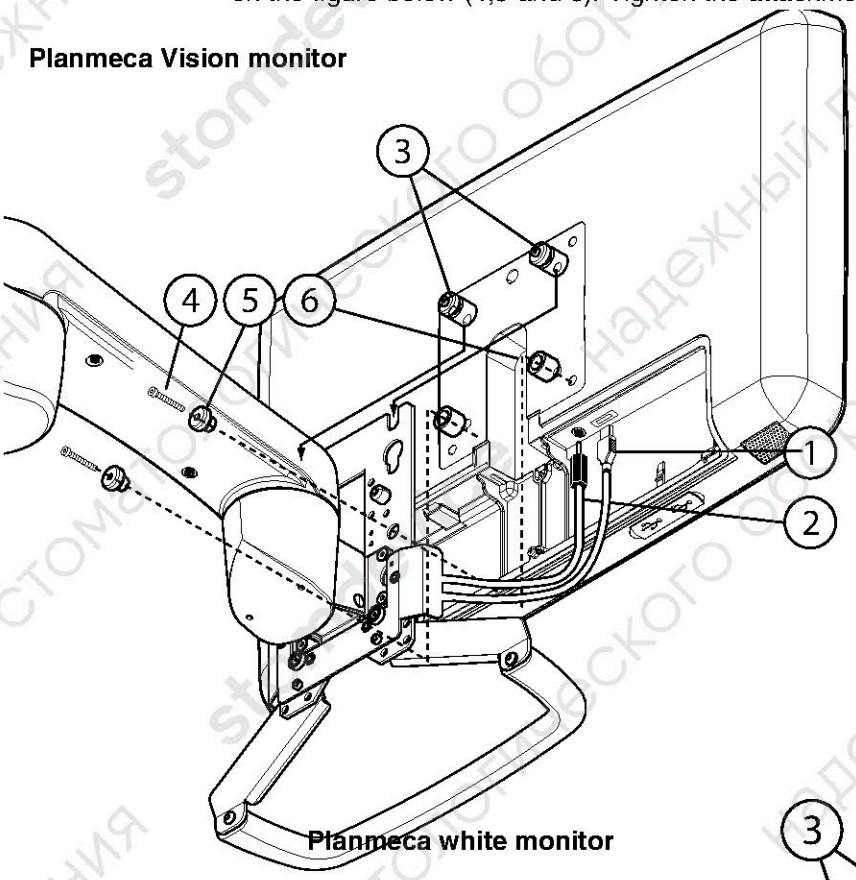
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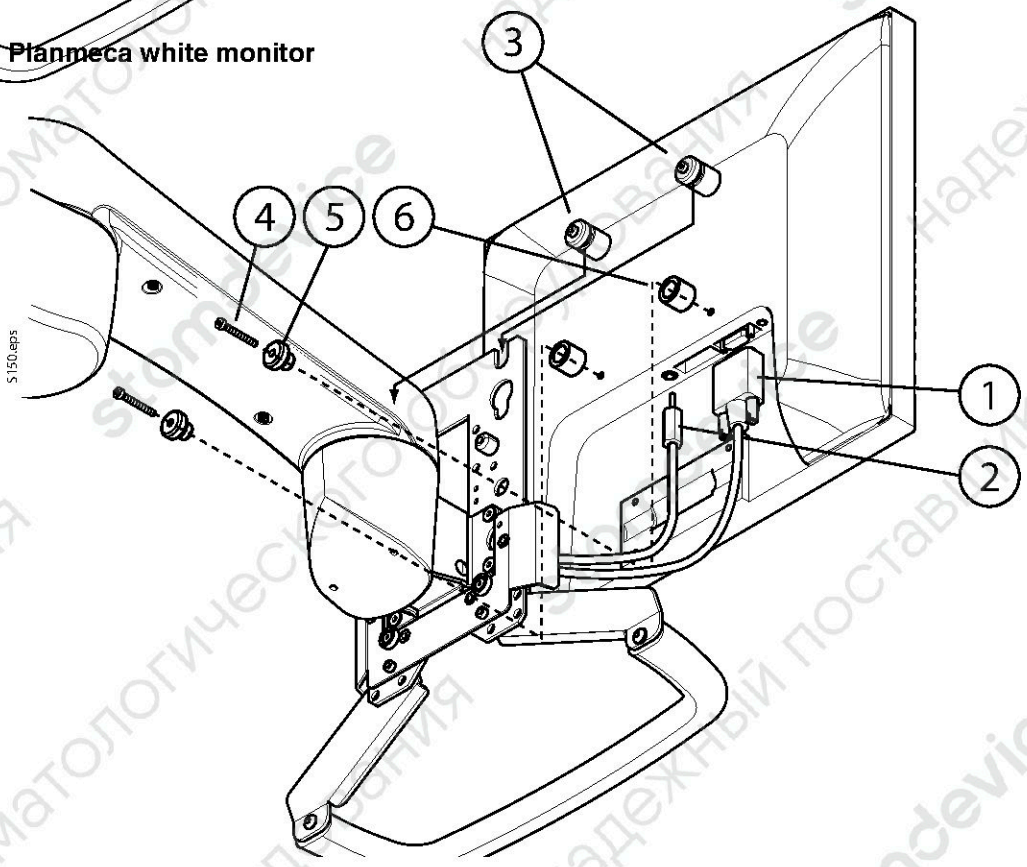
Bring the monitor near to the monitor arm and connect the monitor cables. Connect the VGA / DisplayPort cable to the monitor connector (1). Connect the power adapter cable to the arm power cable. Connect the power adapter cable to the monitor connector (2).

Attach the upper monitor attachment bushings tentatively to the monitor using a 3 mm Allen key. Lift the monitor to its position so that the upper attachment bushings go into the attachment plate grooves (3). Attach the lower attachment bushings to the monitor as shown on the figure below (4,5 and 6). Tighten the attachment screws of the upper bushings.

Planmeca Vision monitor



Planmeca white monitor

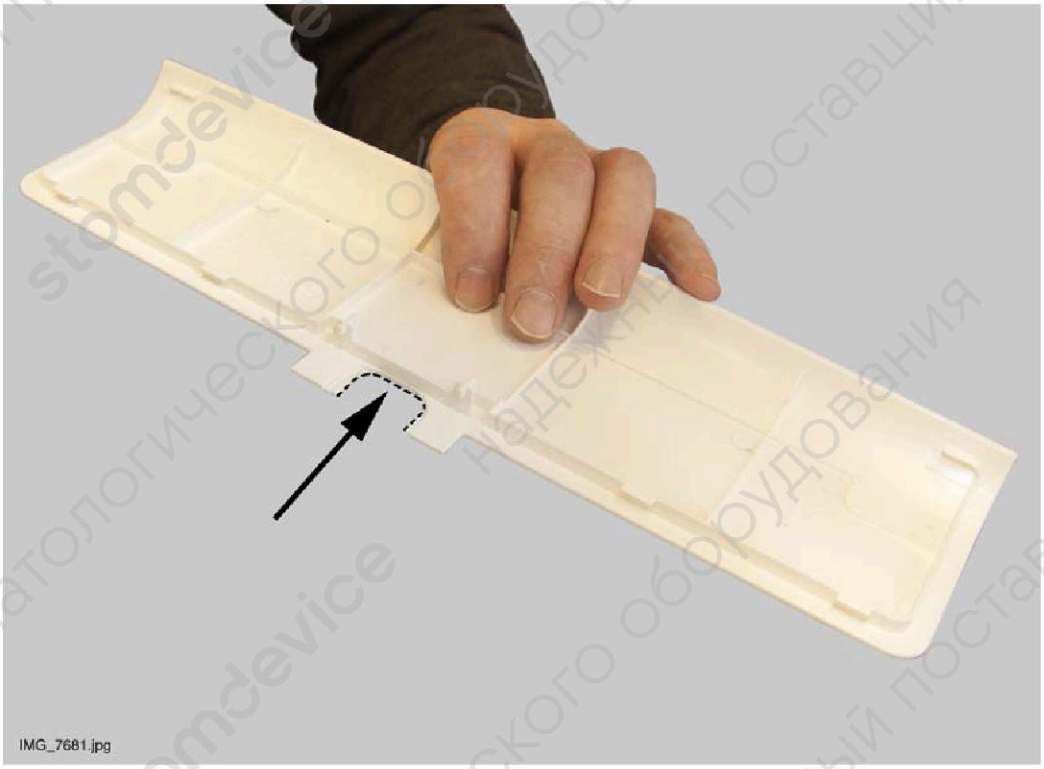


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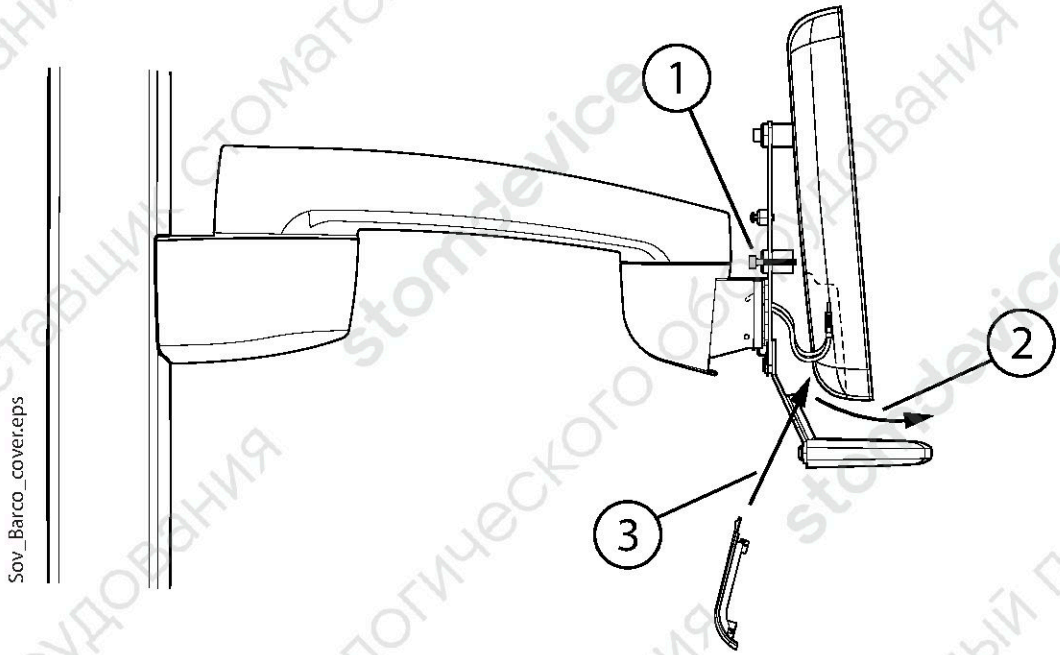
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Planmeca Vision monitor: attaching the covers and connecting the cables

Cut an opening to the monitor back cover as shown on the figure below.



Attach the monitor back cover to its position as follows. Loosen the lower attachment screws (1) and turn the monitor slightly upwards (2). Attach the cover plate to its position with one attachment screw.



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Attach the lower cover support piece to the attachment plate.



Place the upper cover to its position and secure tentatively it with two attachment screws using a 3 mm Allen key.



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Place the lower attachment cover to its position and secure it with two attachment screws using a 3 mm Allen key. Fit the covers to their positions and tighten the four attachment screws



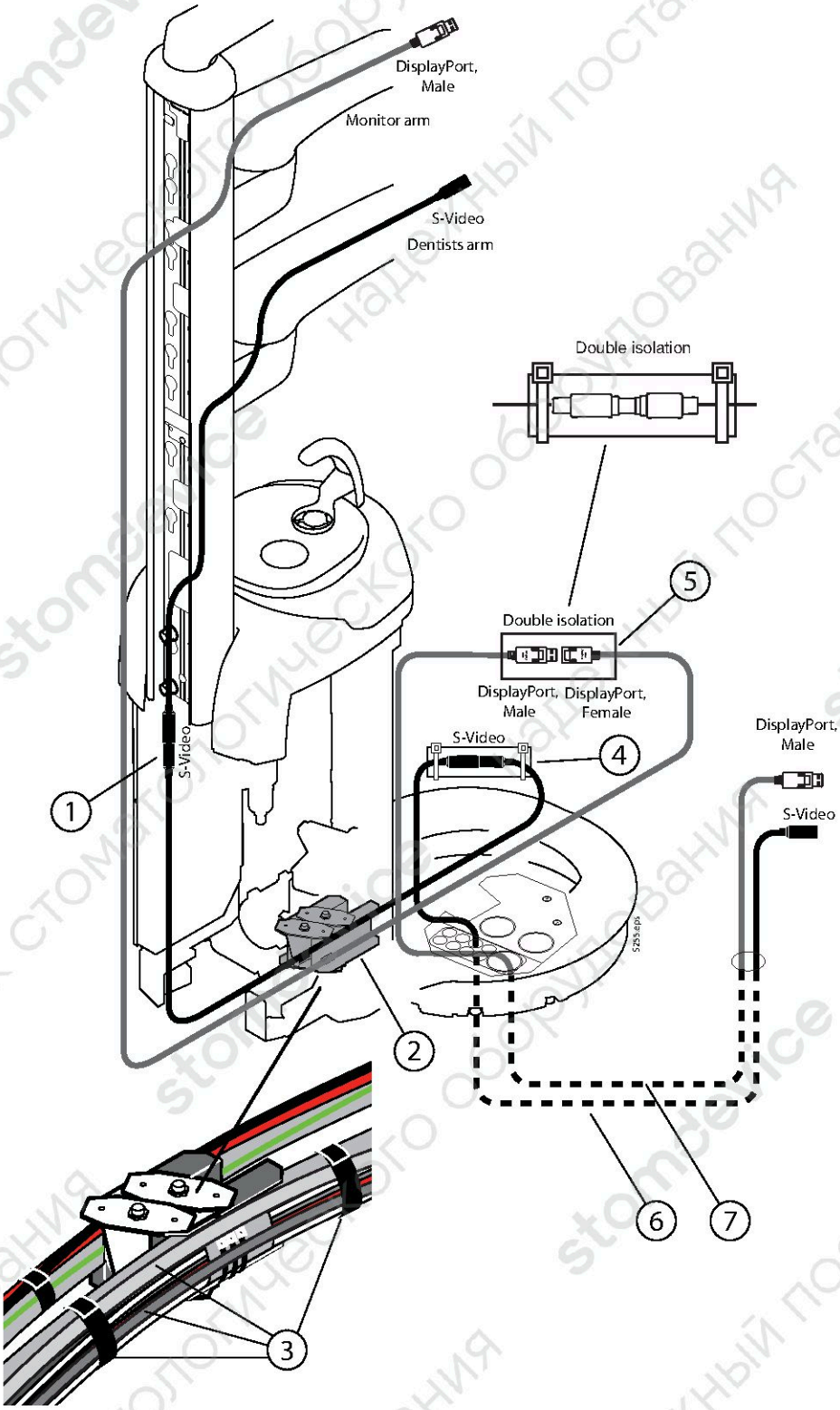
Route the cables into the cuspidor.

Connect the power cable to the cable coming from the UPSU PCB.

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Route the DisplayPort cable into the base. Connect the S-video cable coming from the instrument console to the S-video extension cable (1) and route also the extension cable into the base. The cables are routed through the cable guide as shown on the figure below (2, 3). Secure the cables to other cables/tubes with attachment strips (3). Connect the DisplayPort cable to the extension cable (5). Isolate all connections (4 and 5). Route the cables out from the base and attach the S-video (6) and DisplayPort (7) extension cables to the computer.



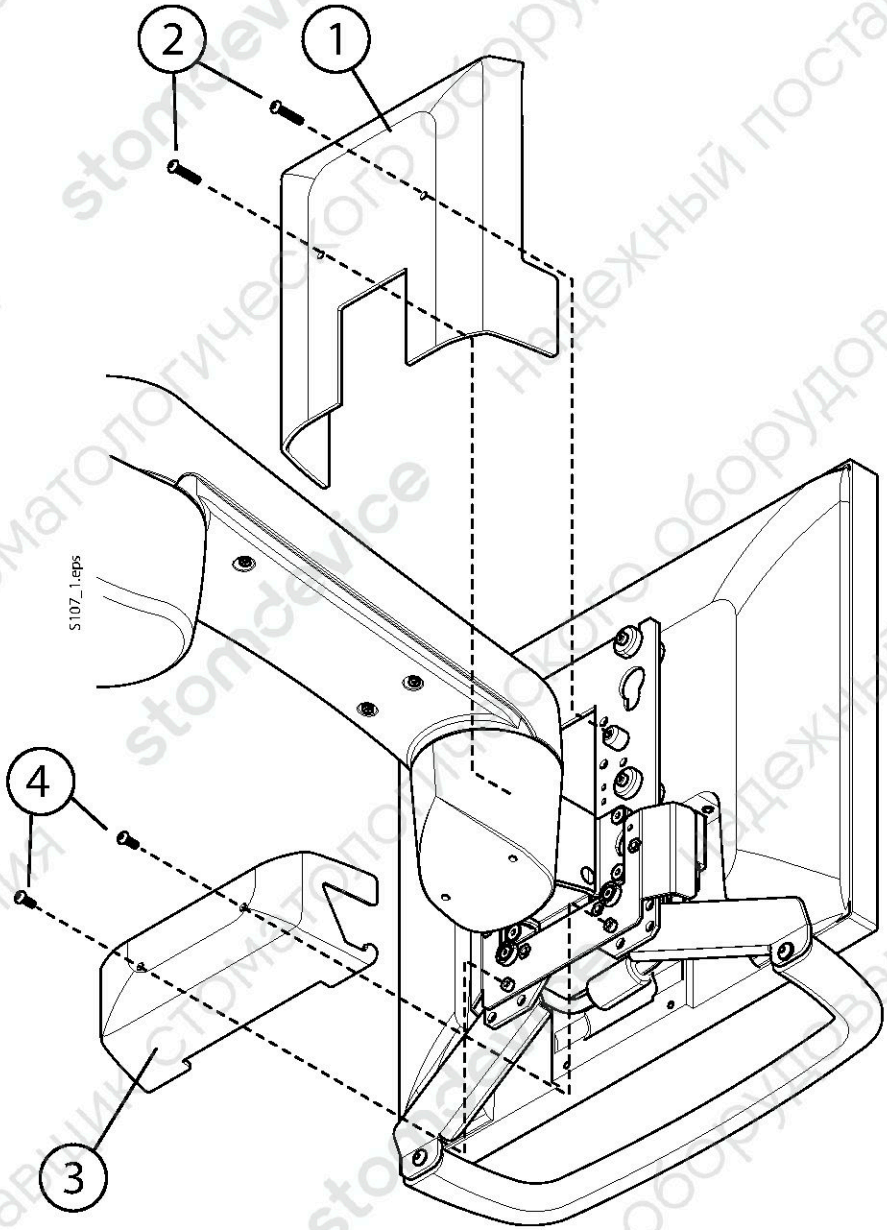
NOTE **See also figure on section 19 “CONNECTIONS” on page 181.**

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Planmeca white monitor: attaching the covers and connecting the cables

Place the upper cover to its position (1) and secure tentatively it with two attachment screws (2) using a 3 mm Allen key. Place the lower attachment cover (3) to its position and secure it with two attachment screws using a 3 mm Allen key (4). Fit the covers to their positions and tighten the four attachment screws.



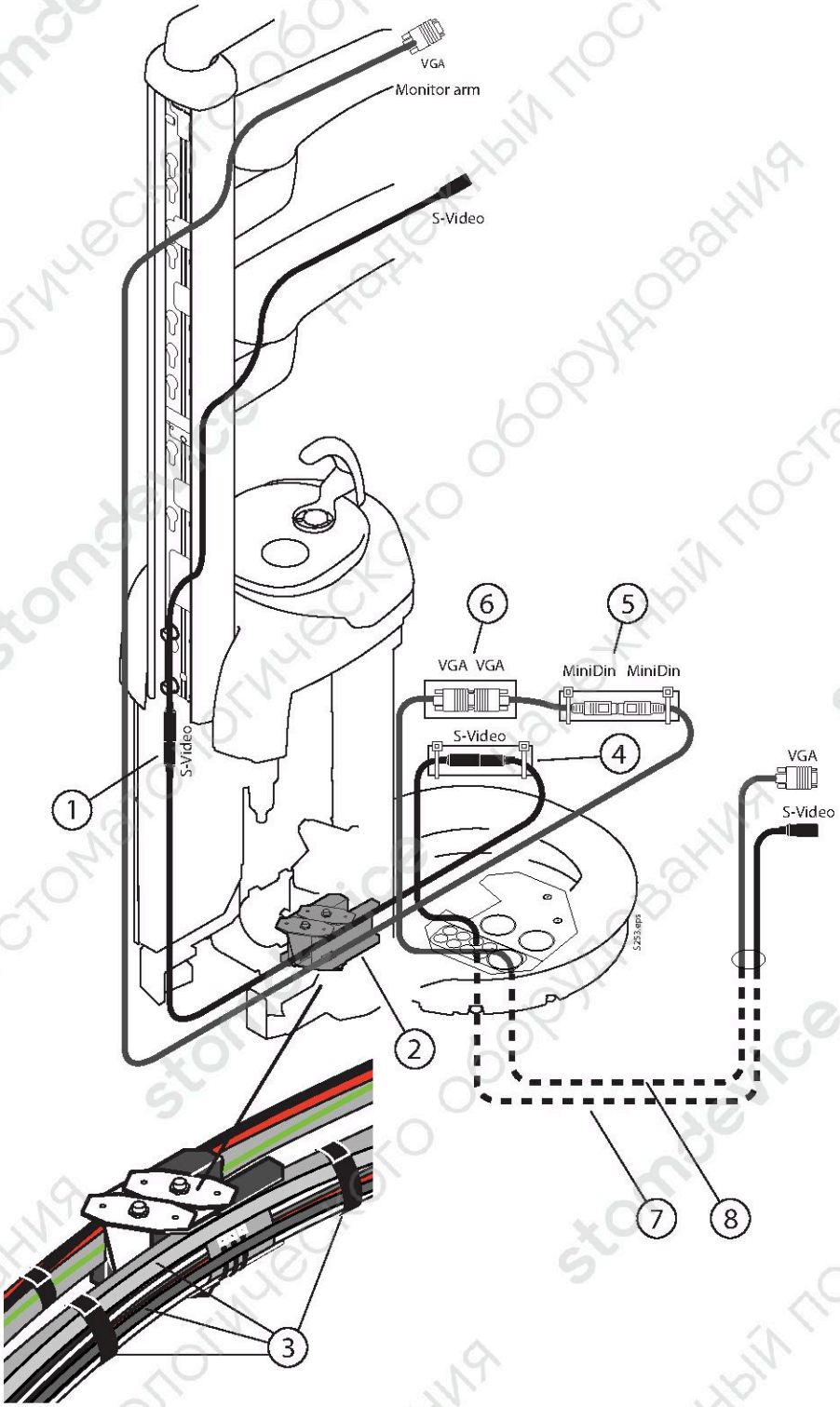
Route the cables into the cuspidor.

Connect the power cable to the cable coming from the UPSU PCB.

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Route the VGA cable into the base. Connect the S-video cable coming from the instrument console to the S-video extension cable (1) and route also the extension cable into the base. The cables are routed through the cable guide as shown on the figure below (2, 3). Secure the cables to other cables/tubes with attachment strips (3). Connect the VGA cable to the MiniDin/VGA cable (5) and the MiniDin/VGA cable to the VGA extension cable 6). Isolate all connections (4, 5, 6). Route the cables out from the base and attach the S-video (7) and VGA (8) extension cables to the computer.



NOTE **See also figure on section 19 “CONNECTIONS” on page 181.**

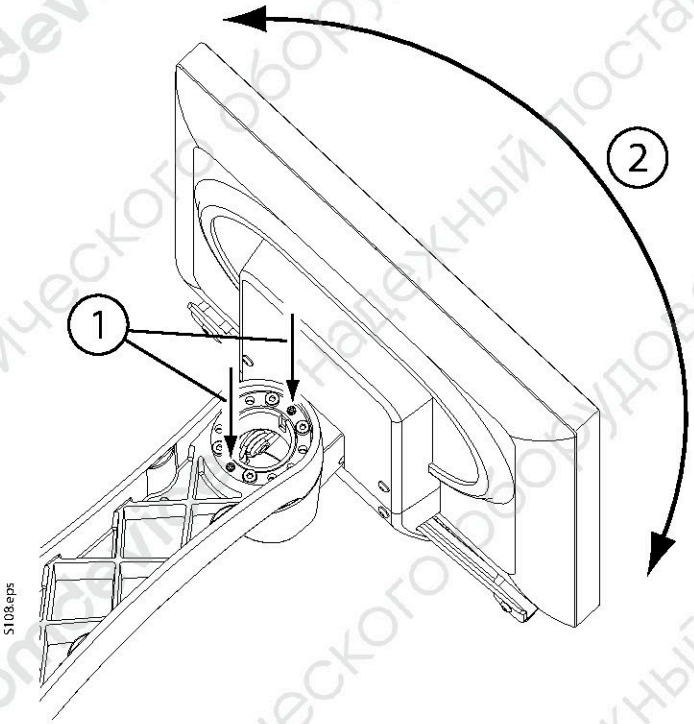
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Adjusting the friction of monitor arm joint

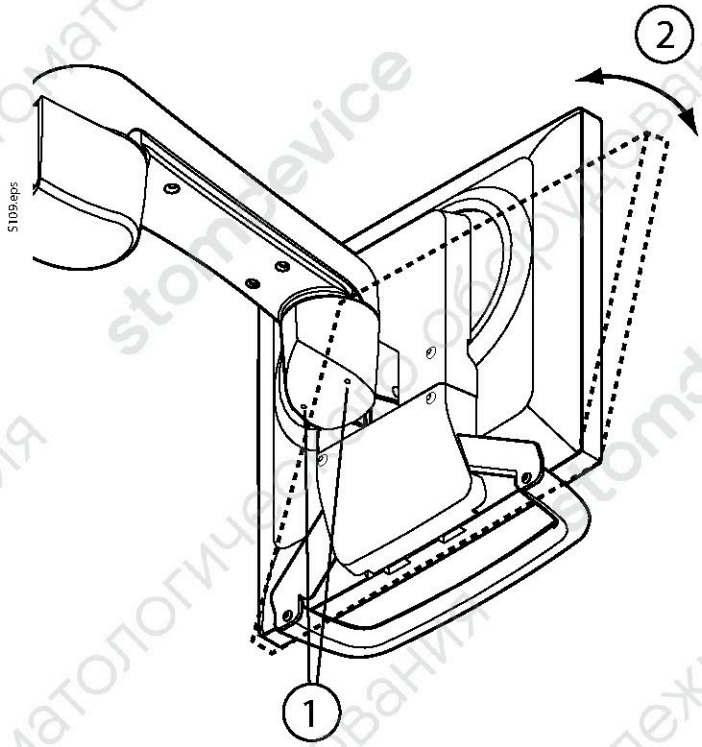
Rotational friction:

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



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9.4 Installing the Planmeca white monitor to the HT console

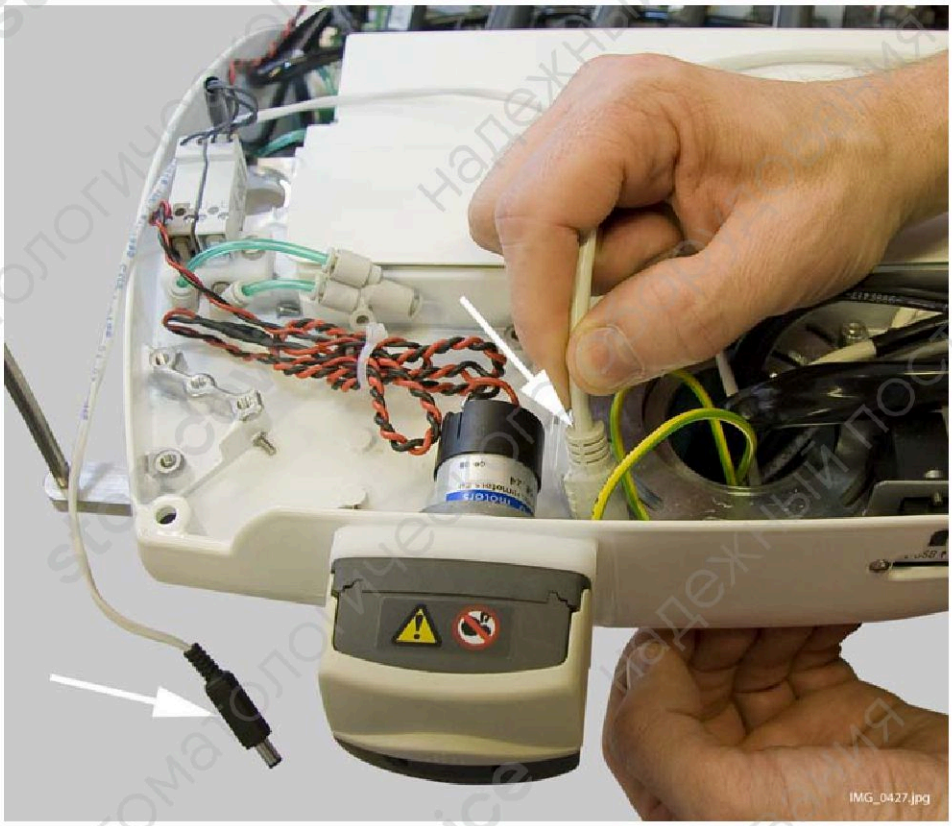
NOTE **The PC connected to the monitor must be:**
- IEC-approved (CE marked)
- located outside the patient area and
- protectively earthed.

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

NOTE **Be careful not to scratch the screen.**

Remove the console cover, if needed.

Route the monitor cables through the console opening.



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Attach the power cable to the VGA cable with tape as shown on the figure below.



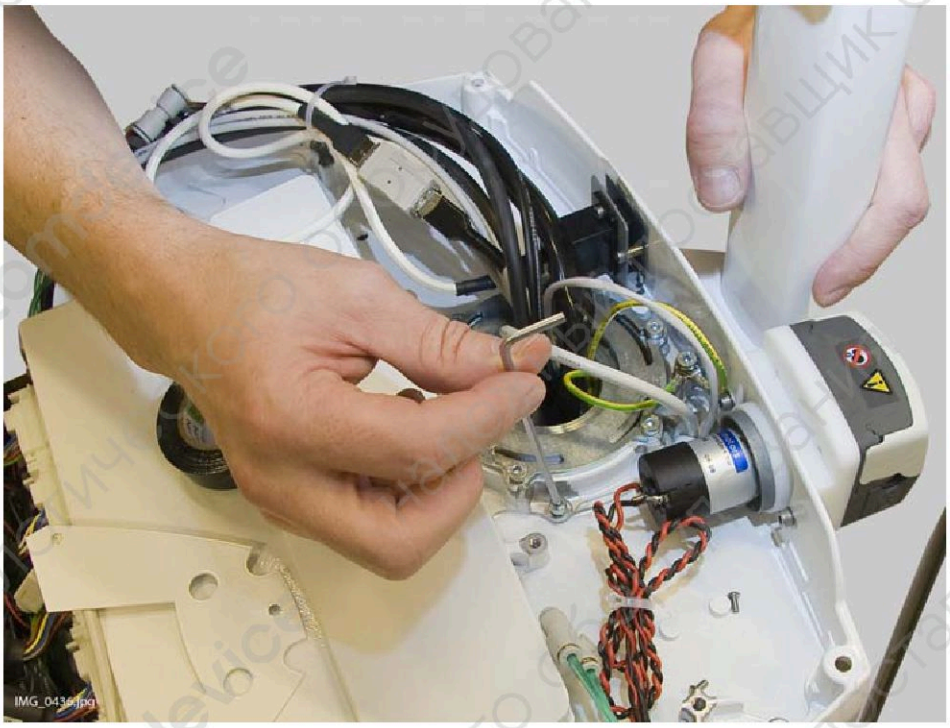
Route the cables through the monitor arm.



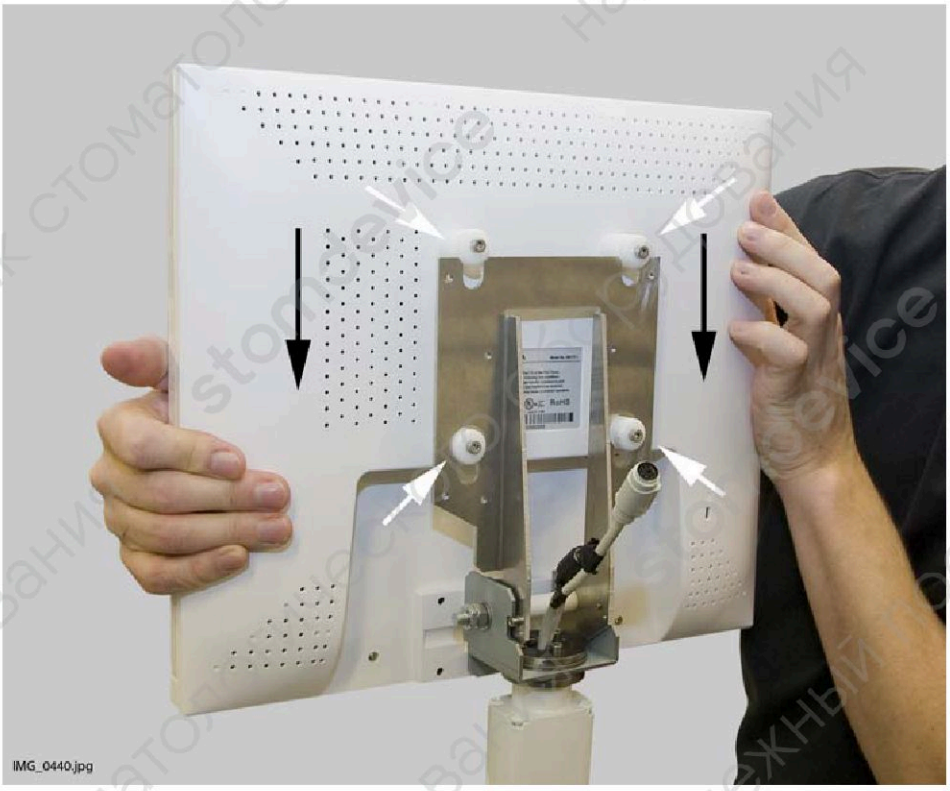
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Attach the monitor arm to the console with four attachment screws using a 3 mm Allen key.



Attach the upper monitor attachment bushings tentatively to the monitor using a 3 mm Allen key. Lift the monitor to its position so that the upper attachment bushings go into the attachment plate grooves. Attach the lower attachment bushings as shown on the figure below. Tighten the attachment screws of the upper bushings.



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Connect the VGA adapter cable to the arm VGA cable. Connect the VGA adapter cable to the monitor connector. Connect the power cable to the monitor connector.



Pull the excess monitor cables into the console. Carefully place the cables into the arm adapter groove. Attach the adapter bottom plate with three attachment screws.



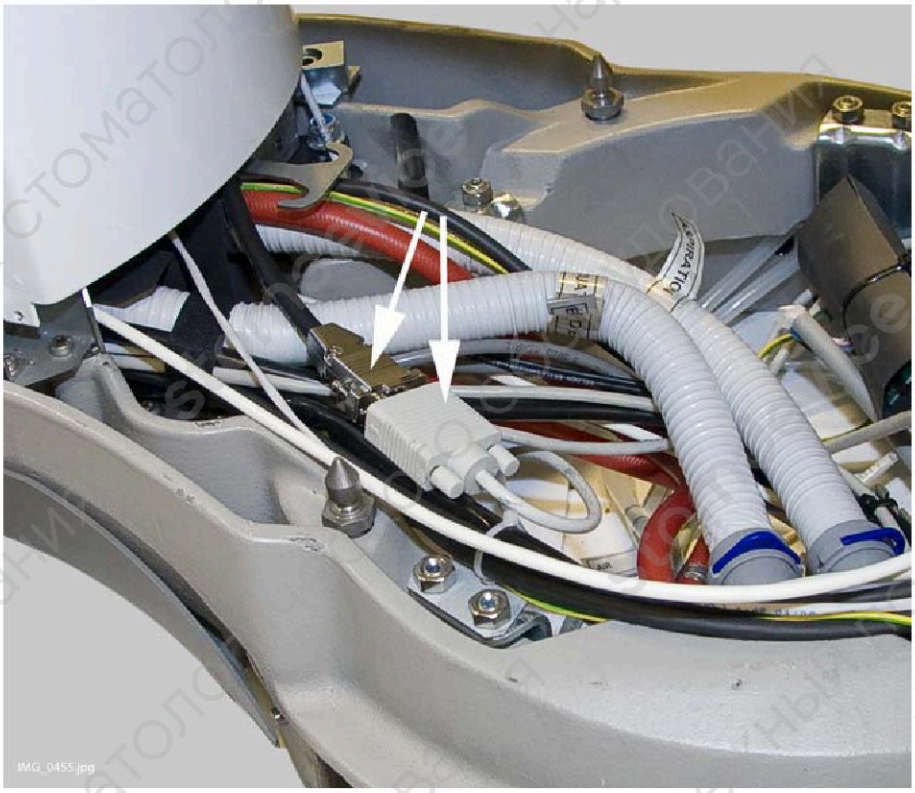
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Place the cover to its position and secure it with four attachment screws using a 2.5 mm Allen key.



Route the cables into the cuspidor. Connect the power cable to the cable coming from the UPSU PCB. Route the VGA cable into the base and connect it to the VGA extension cable. Isolate the connection and place the excess VGA arm cable into the insulator. Attach the VGA extension cable to the computer.



Attach the console cover.

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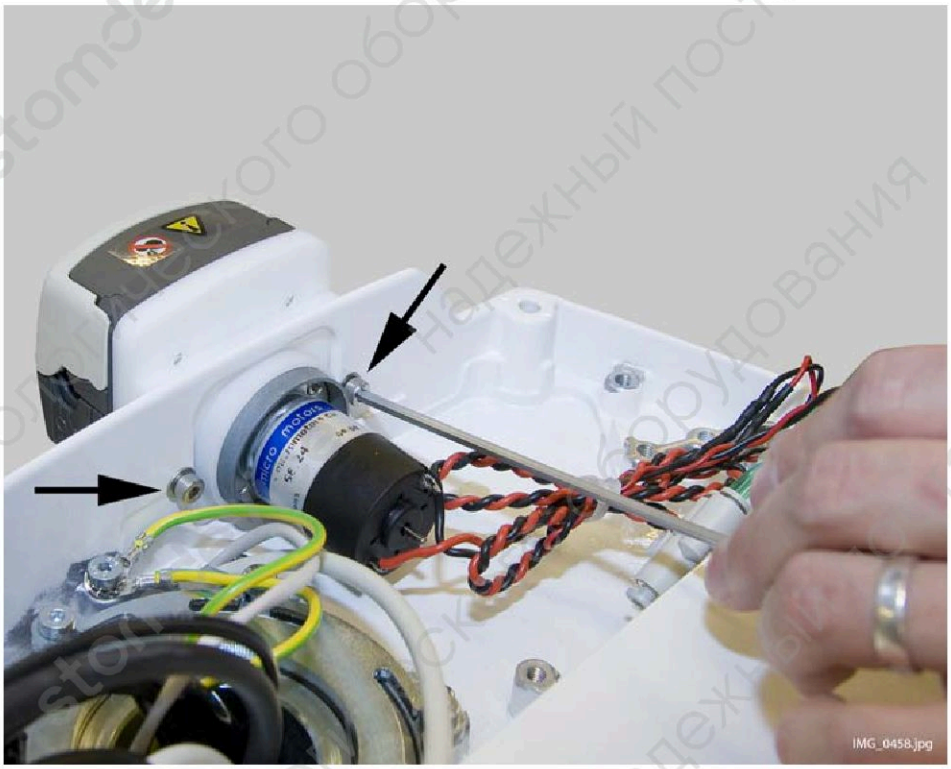
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9.5 Installing the Sterile water system to the instrument console

NOTE **The Sterile water system cannot be installed to the OP delivery arm with HT console if also the LCD monitor is installed.**

Remove the console cover.

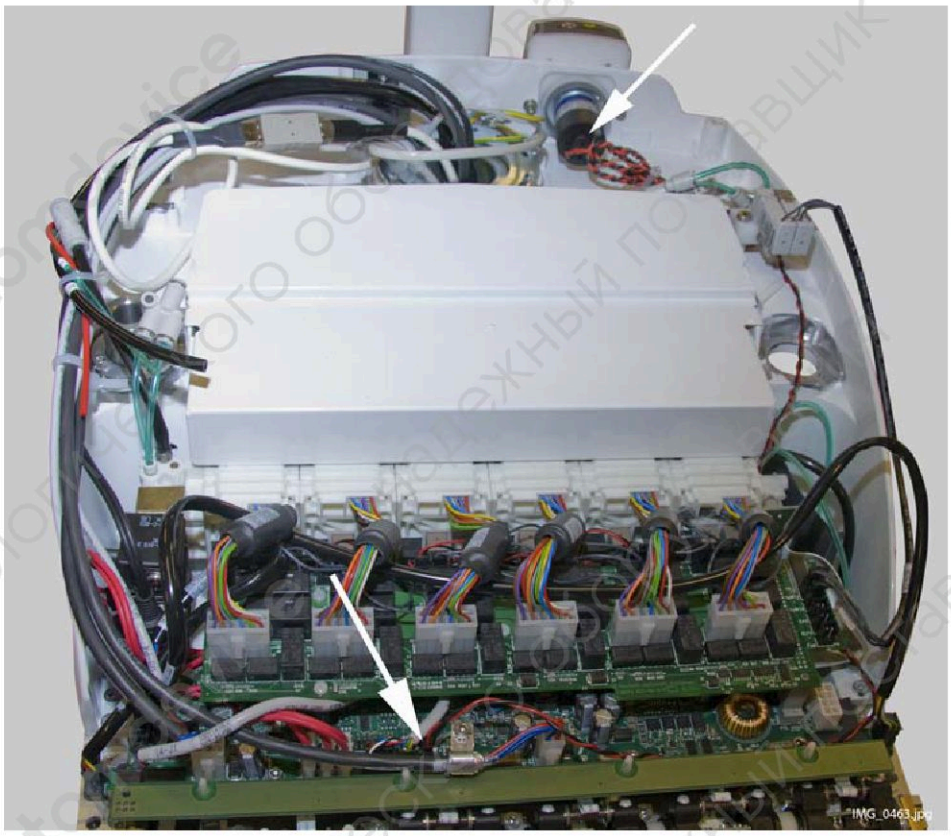
Attach the pump to the console with 2 attachment screws using a 3 mm Allen key.



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Make sure that the pump motor cable is connected to the ICON PCB connector P14 (S-pump motor). Connect the cable to the pump.



Attach the water bag holder to below the instrument console with one attachment screw using a 3 mm Allen key.



Attach the console cover.

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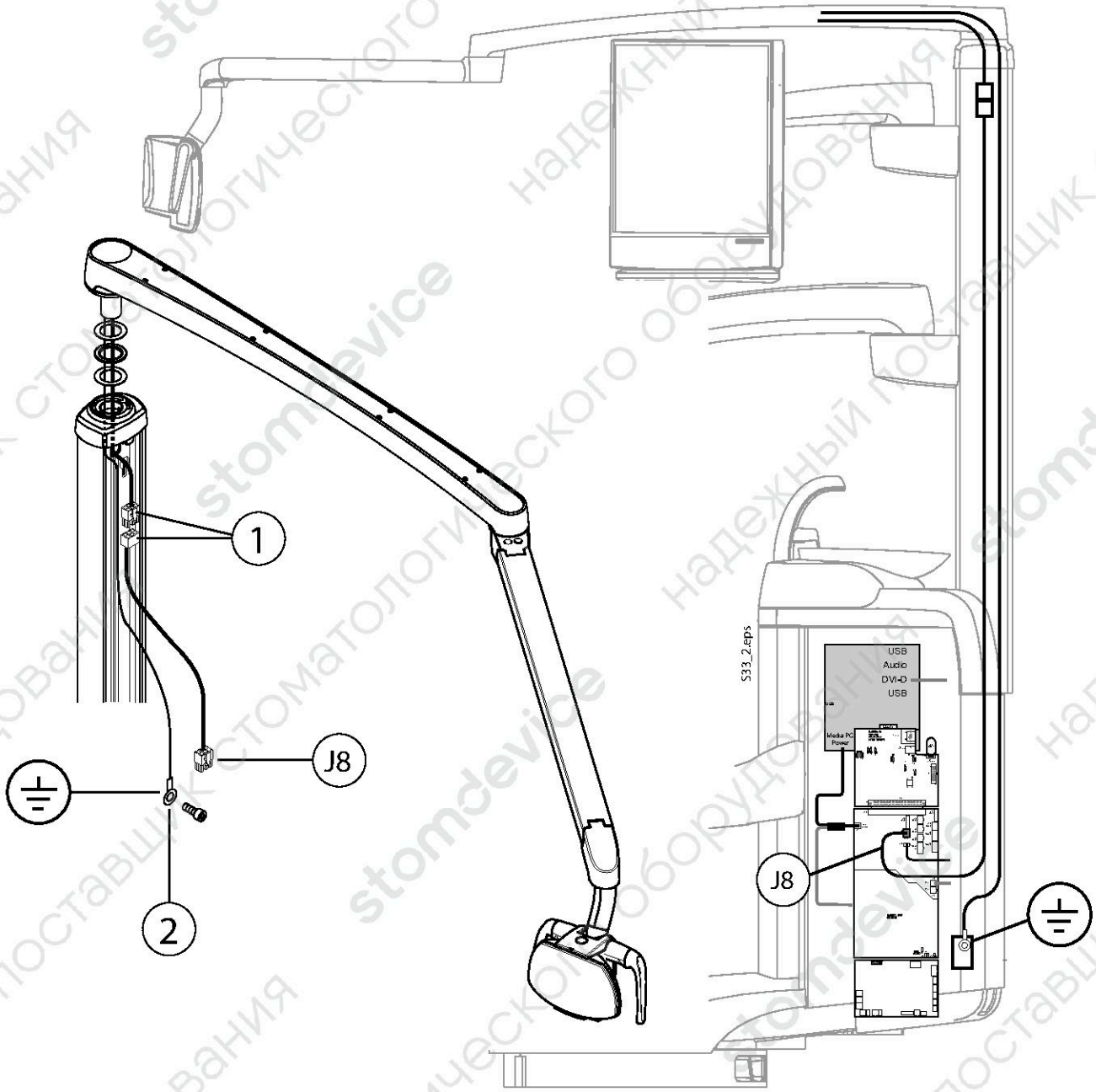
9.6 Installing the Planmeca SingLED operating light

NOTE **Install the monitor arm before installing the operating light.**

Route the light cable through the pylon top bracket to outer side of the pylon. Insert the three washers to the operating light arm shaft and push the arm to the bracket opening.

Connect the operating light cable to the cable coming from connector J8 on the UPSU PCB (1).

Attach the grounding lead to the grounding point located on the cuspidor (2).

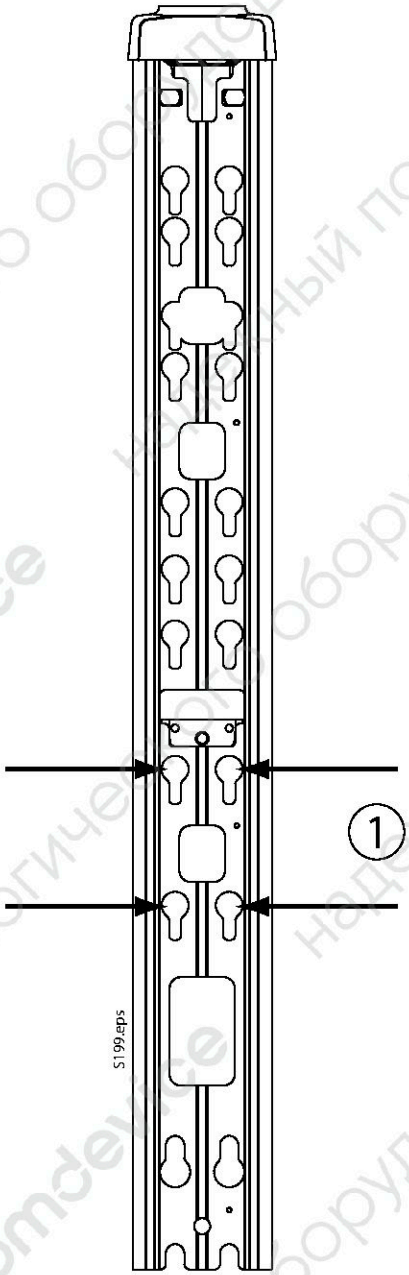


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9.7 Installing Zeiss OPMI pico microscope

The microscope arm is attached to the pylon openings marked with arrows (1).



Lift the microscope arm to its position. Make sure that the attachment screws are loosened so that the they go into the openings on the pylon.

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Attach the microscope arm to its position. First slide the cable support plate under the lower attachment screws. Tighten the attachment screws.



Secure the cables with cable ties.

Assemble the microscope according to the manufacturer's instructions.

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Route the cables through the stand arm opening and place the stand arm on the microscope arm shaft.



Secure the stand arm in its position with washer and two c-clips. Be careful not to overstretch the c-clips when mounting them.



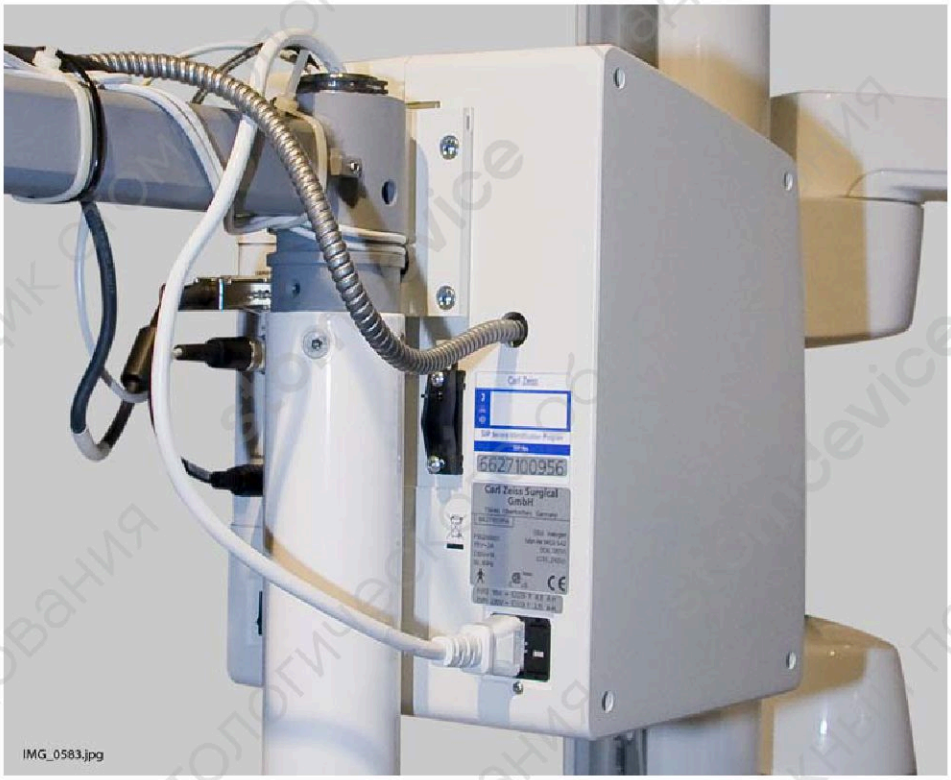
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Connect the S-video cables (from arm and microscope) (if provided) and the remote (for foot switch) cables to the lamp housing.



Insert the light guide and plug the mains cable to the sockets on the lamp housing.

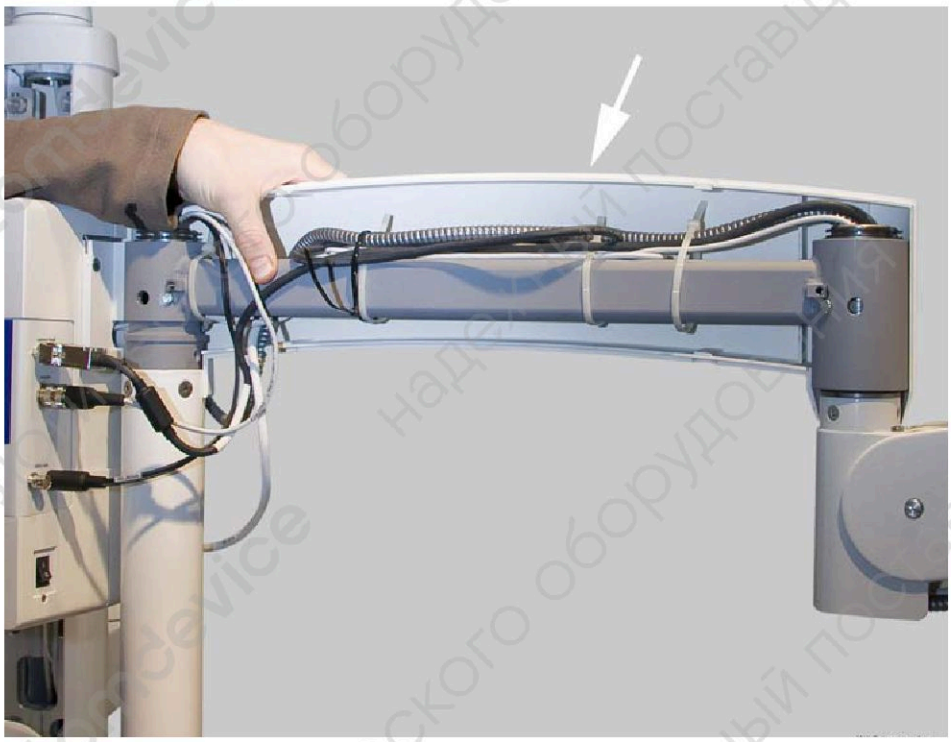


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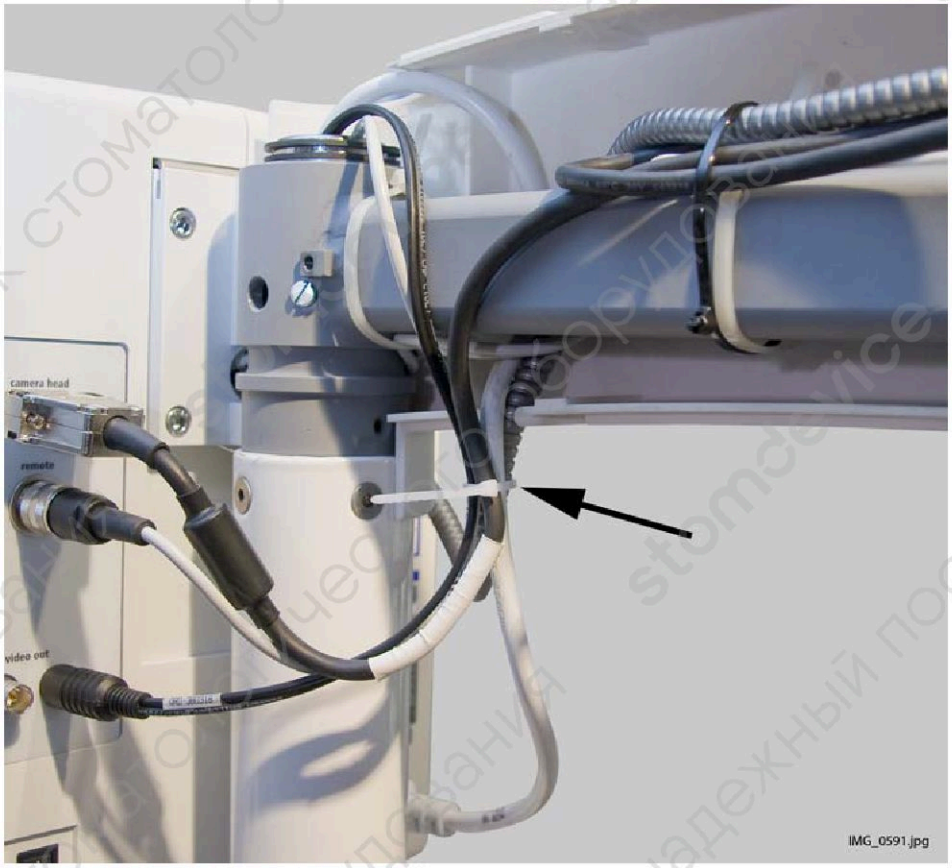
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Route the light guide and cables along the arm as shown on the figure below. Place the excess cables and cables that are not used into loops and secure them above the arm. Place one cover to its position.

CAUTION Make sure that the cables are not squeezed.



Make sure that the cables and light guide go through the covers' opening and bunch them with cable tie as shown on the figure below. Place the power cable to the middle of the cable bunch.



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Carefully attach the covers with four attachment screws.

CAUTION Make sure that the cables and light guide are not squeezed.



Check the cable routing through the cover's opening and remove the cable tie.



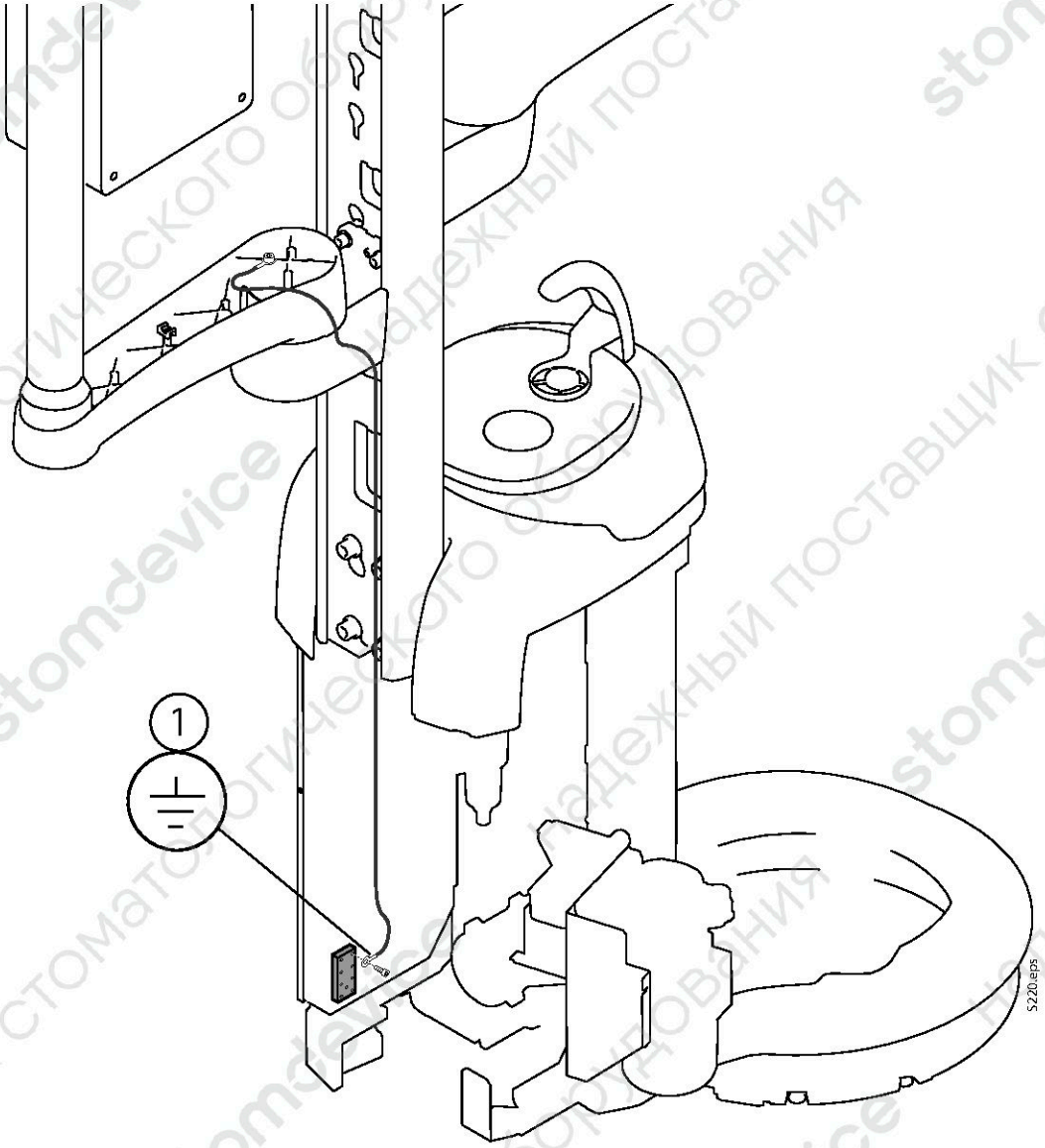
Attach the locking screws.

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Route the power cable and S-video cable (if used) into the cuspidor. Plug the power cable to the socket located in the cuspidor.

Attach the grounding lead to the grounding point located on the cuspidor. Connect the foot switch cable to the remote cable.



Route the S-video cable through the cable guide into the base. Secure the cable to other cables/tubes with attachment strips.

In the base secure the cable with cable ties and make sure that the cables fit under the mains terminal cover. Attach the cover to its position with two attachment screws. The extension of S-video cable is routed out from the base either as concealed wiring or on the floor.

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Adjust the rotational friction of the bracket joint after attaching the microscope to the arm. Remove the cover plug from above the bracket arm attachment screw and unscrew the attachment screw using a 3 mm Allen key.

Adjust the rotational friction of the bracket joint with a 3 mm allen key. Tightening the screw increases the friction.



Attach the removed covers.

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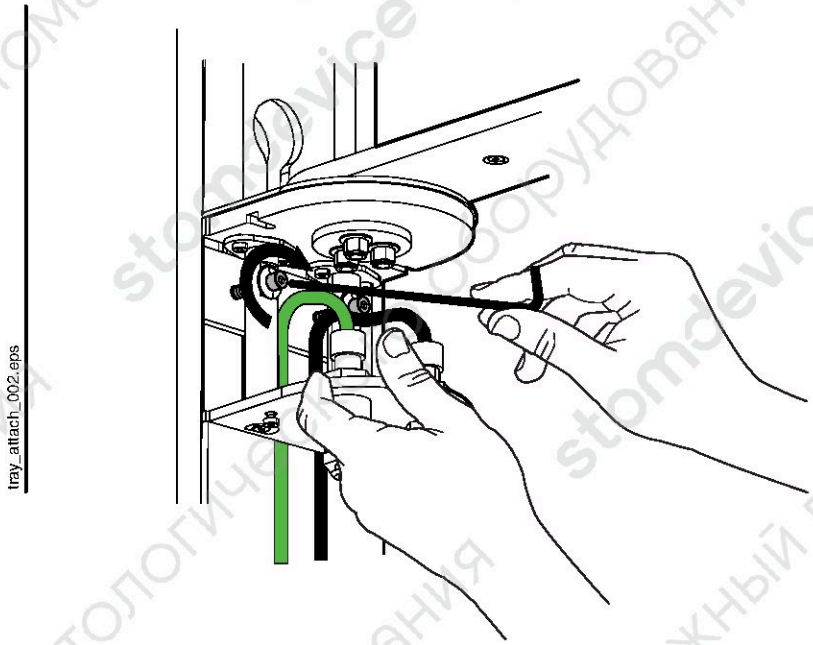
9.8 Installing the bracket for additional equipment

Find the correct installation position of the bracket by attaching first the upper pylon cover to its position. This way you can find the correct height of the upper level of the bracket.

Turn the bracket assembly slightly and place it to the pylon groove. Slide the bracket assembly to correct height and turn it horizontal position.



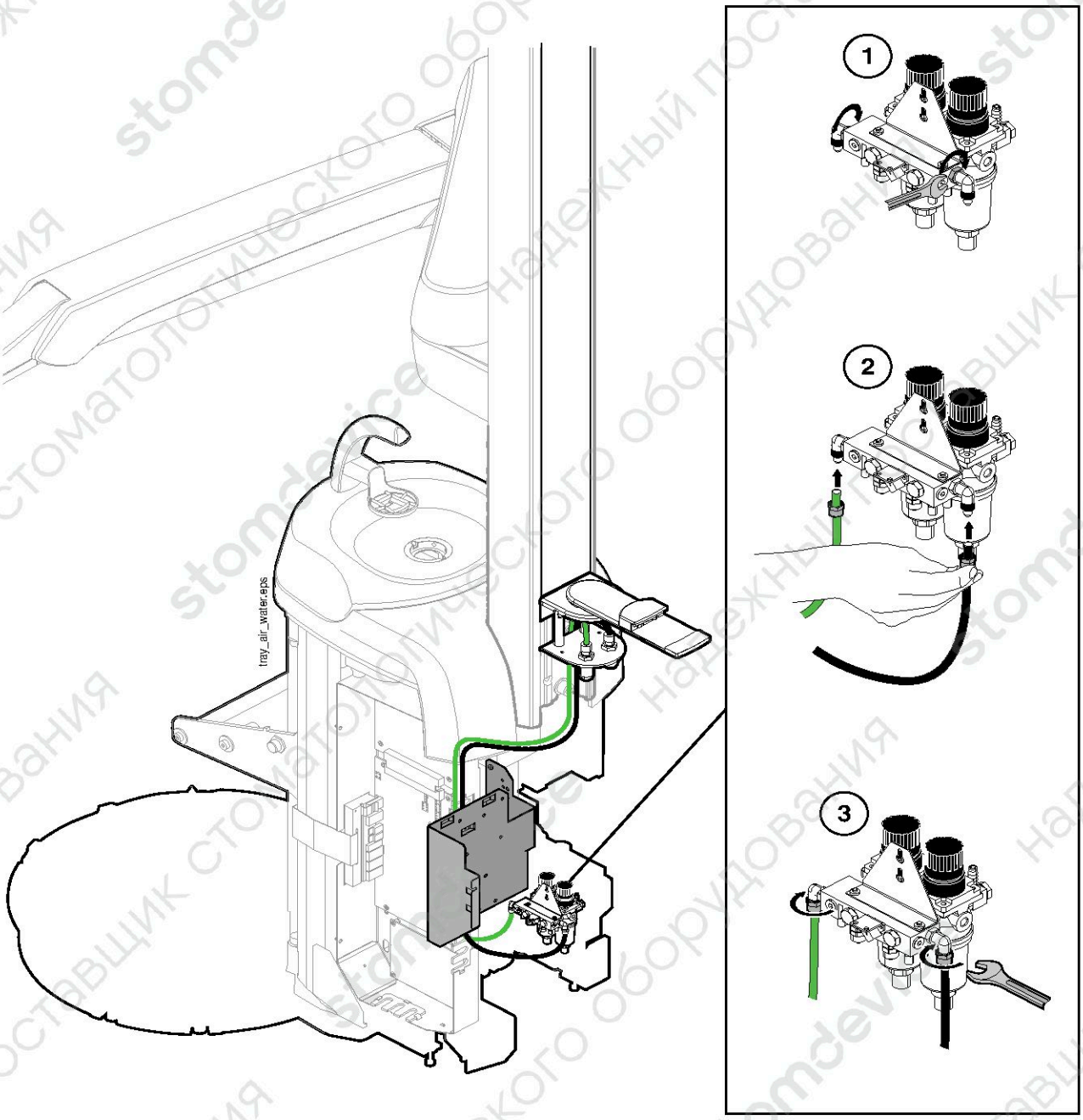
Tighten the attachment screws using a 5 mm Allen key.



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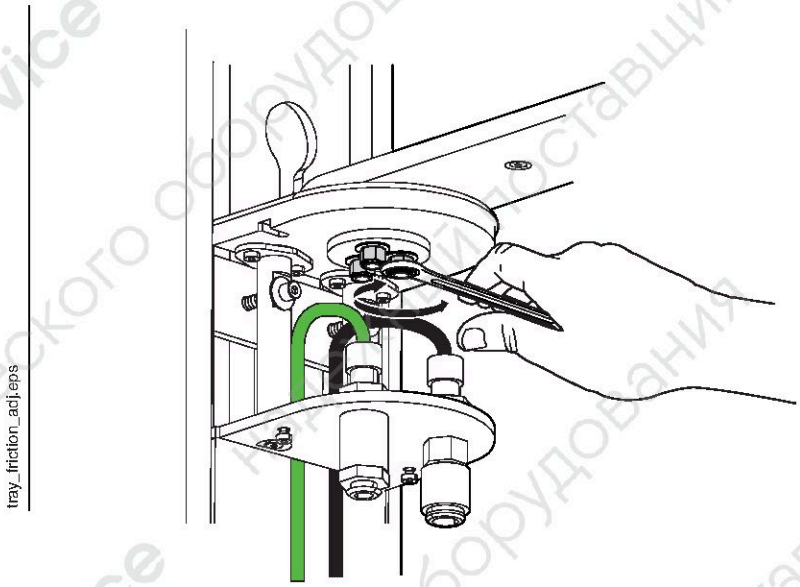
If the bracket assembly is equipped with air and water quick connectors, route the tubes to the pressure regulator assembly as shown on the figure below. Attach the nipples to the assembly using 12 mm fork spanner (1). Attach the tubes to the nipples, green water tube (with additional shielding) to the rear and black air tube to the front of the assembly (2). Tighten the tube attachment nuts using a 12 mm fork spanner (3).



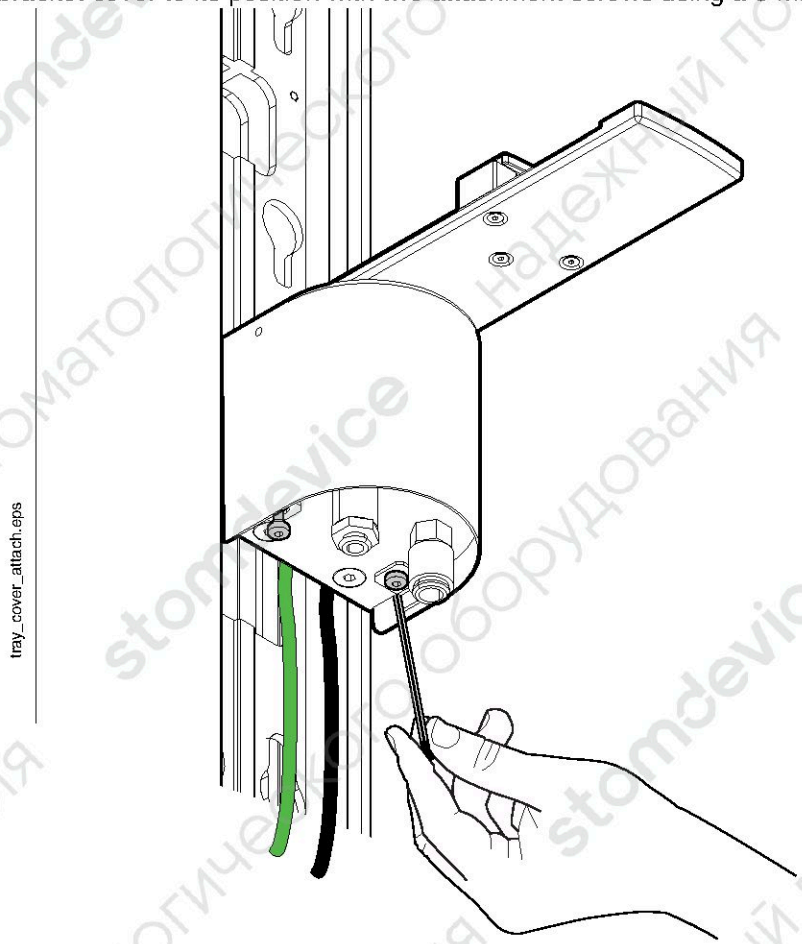
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If needed, adjust the rotational friction of tray arm by tightening/loosening the adjustment nuts with a 8 mm fork spanner. Adjust the three nuts equally. Tightening the nut increases the friction.



Attach the bracket cover to its position with two attachment screws using a 3 mm Allen key.



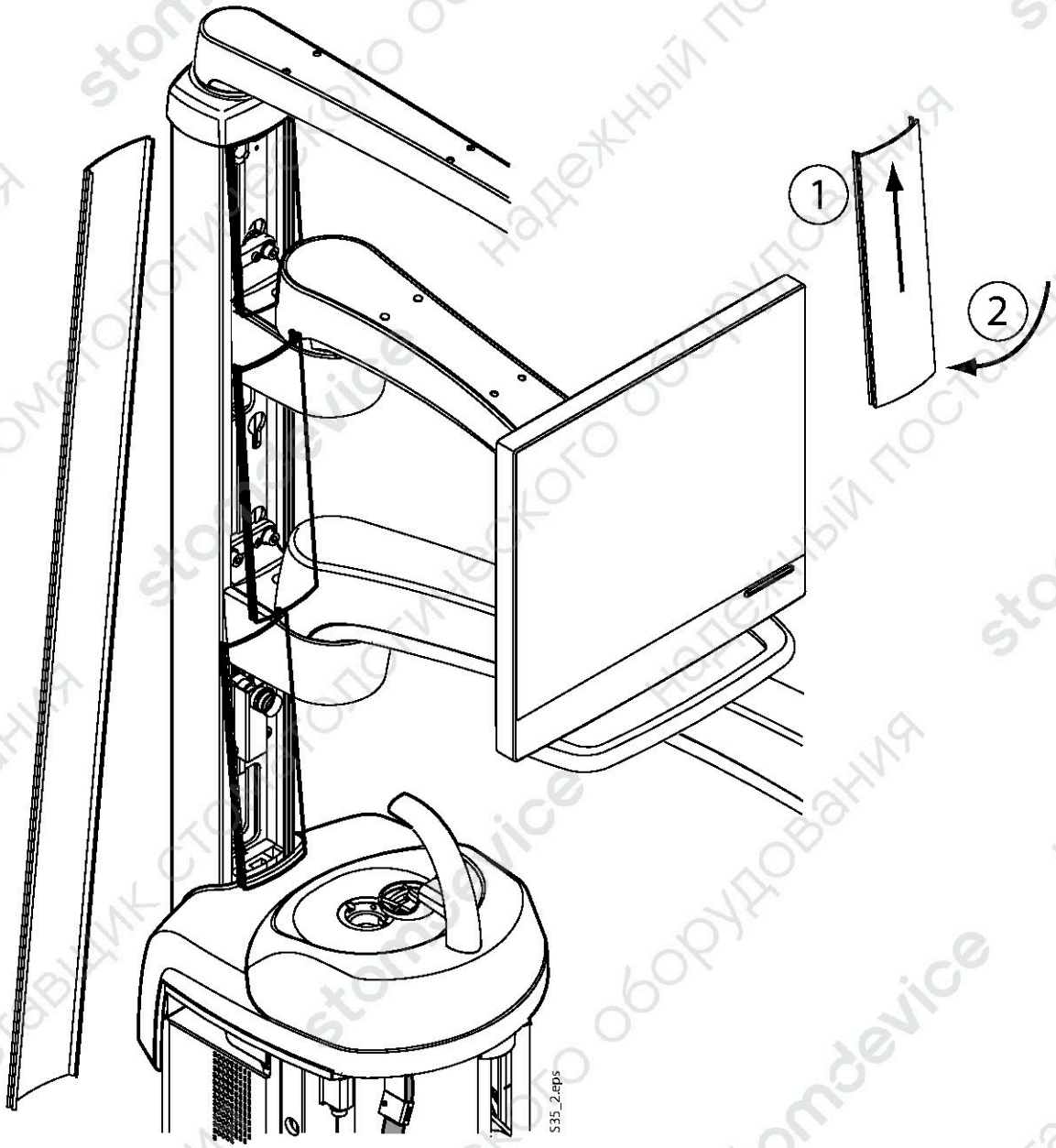
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10 ATTACHING THE PYLON COVERS

First slide the pylon side panel upper edge below the bracket (1) and then press the panel to its position (2).

Slide the pylon back panel edge below the top bracket and press it to its position.



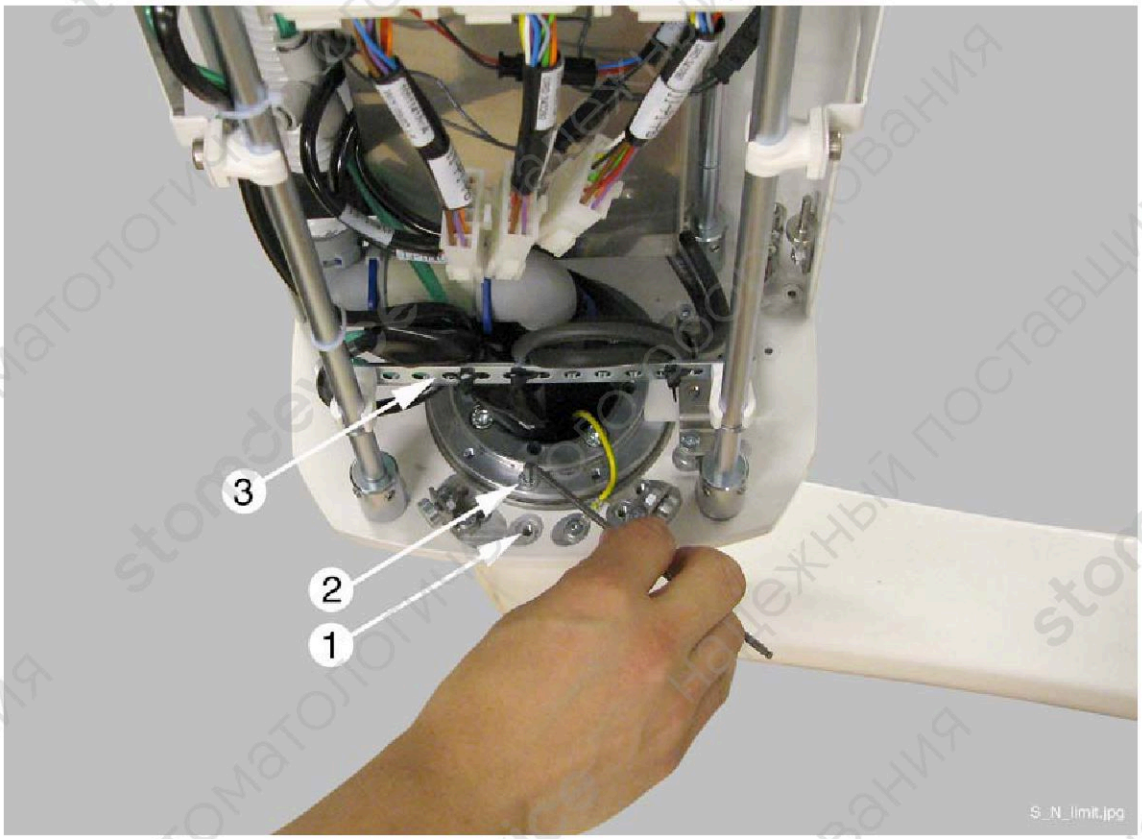
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11 INSTALLING THE ASSISTANT ELEMENT

11.1 Attaching the assistant element to the cuspidor

The assistant element rotation limiter screw is attached to the bottom plate during transport (1). Unscrew the limiter screw from the bottom plate and attach it to its position (2). Attach the support strip to the side bars (3).

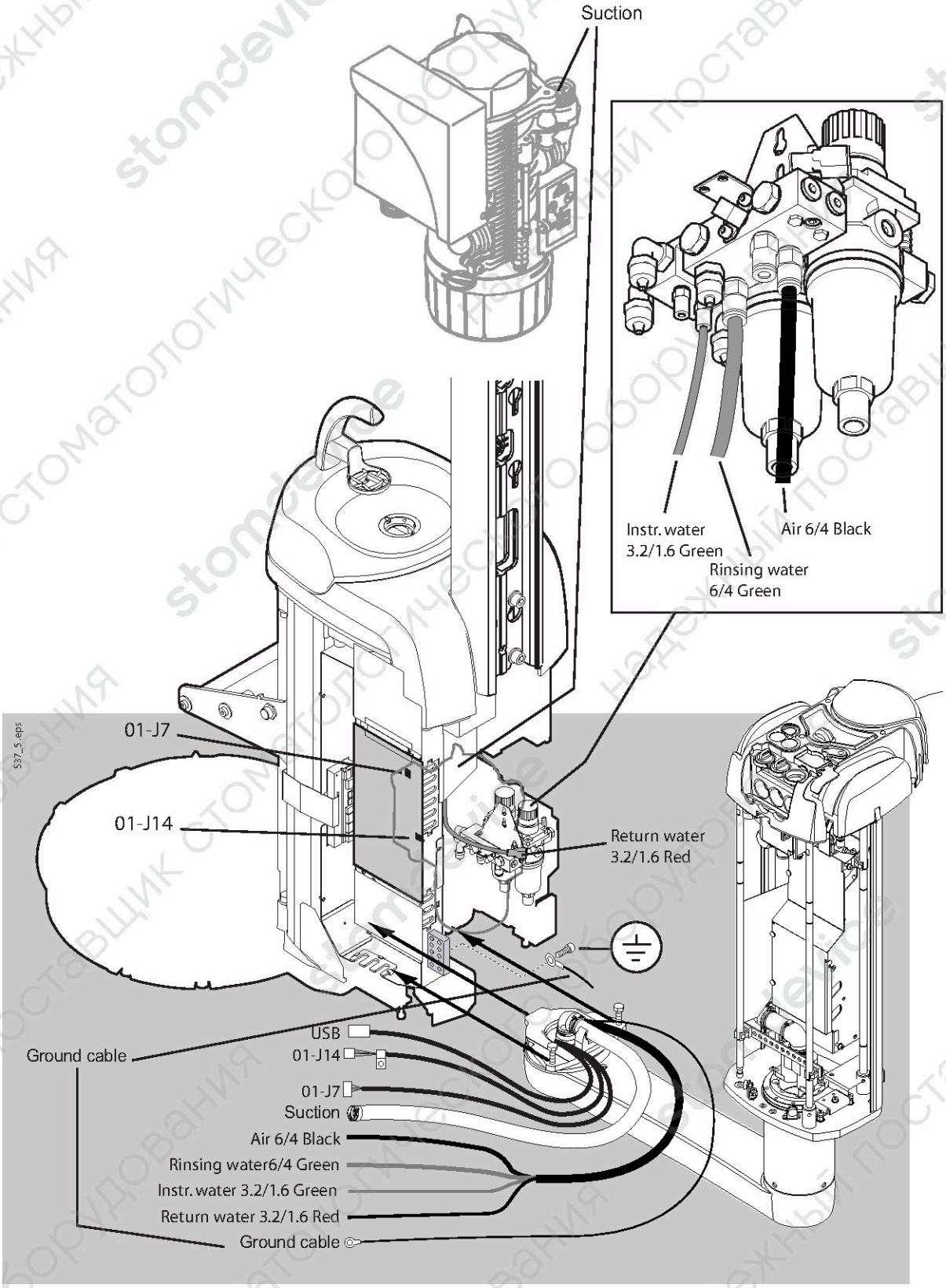


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Carefully lift the assistant element to its position. Make sure that the attachment plate is positioned narrower end foremost. Tighten the two attachment nuts using a 13 mm fork spanner.

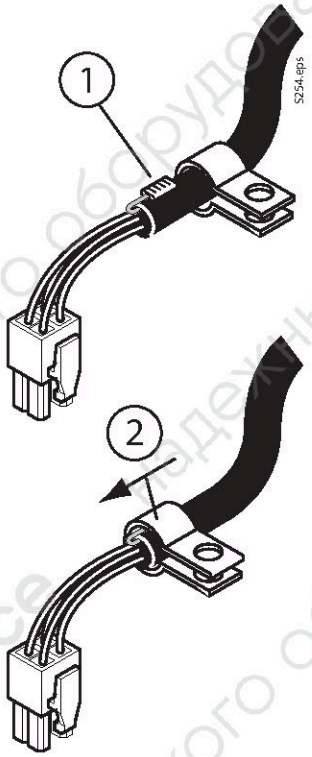
Route the cables and tubes into the cuspidor base and connect them as shown on the figure below.



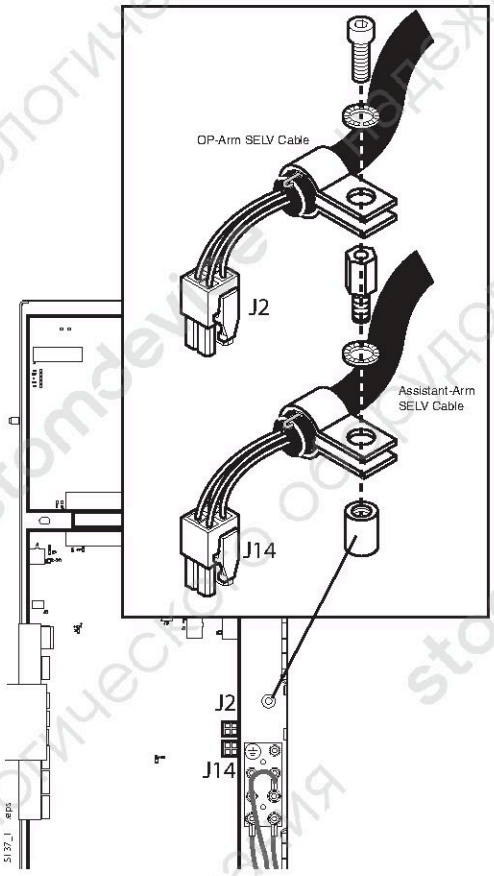
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Check that the ground clip is correctly positioned (1) and slide the grounding collar over the clip (2).



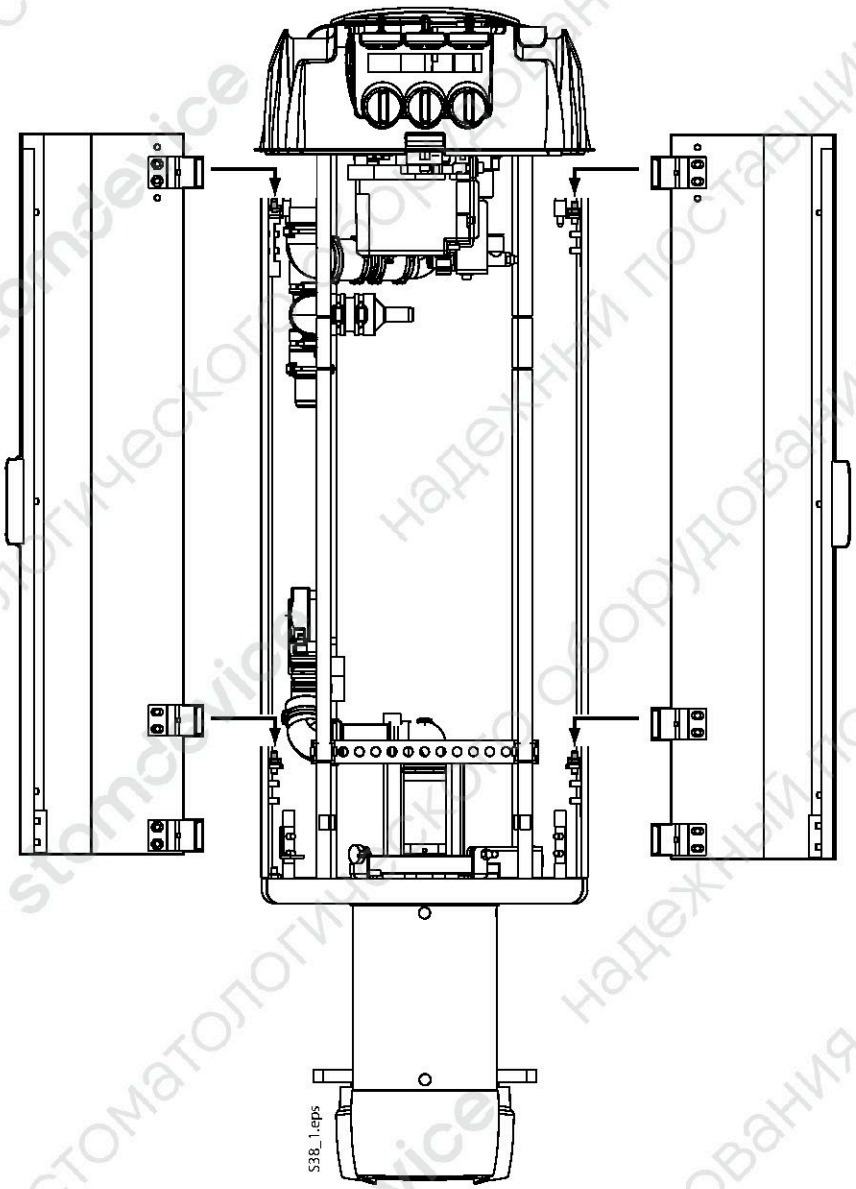
Secure the Selv cable connected to connector J2 as shown on the figure below.



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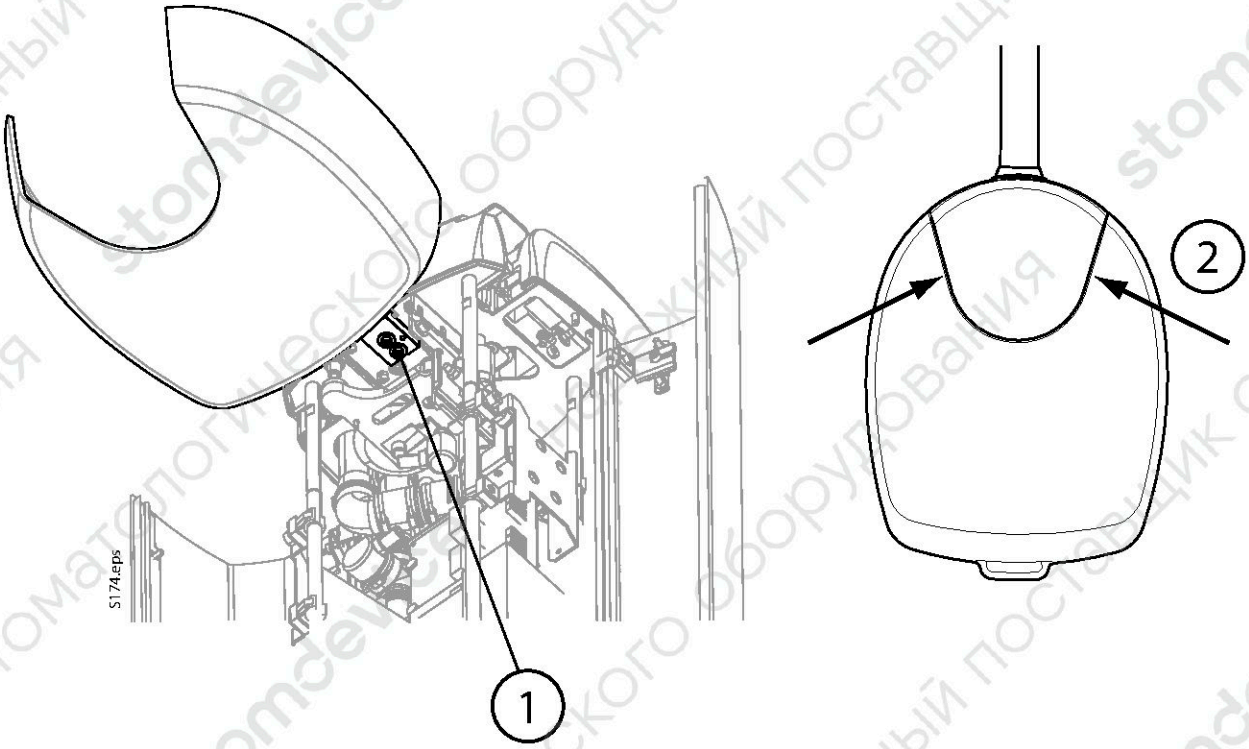
Lift the assistant element doors to their positions.



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Attach the assistant element top cover. Loosen the two attachment screws (1). Place the cover to its position and adjust the position so that the gap between the covers is even (2). Tighten the adjustment screws (1).

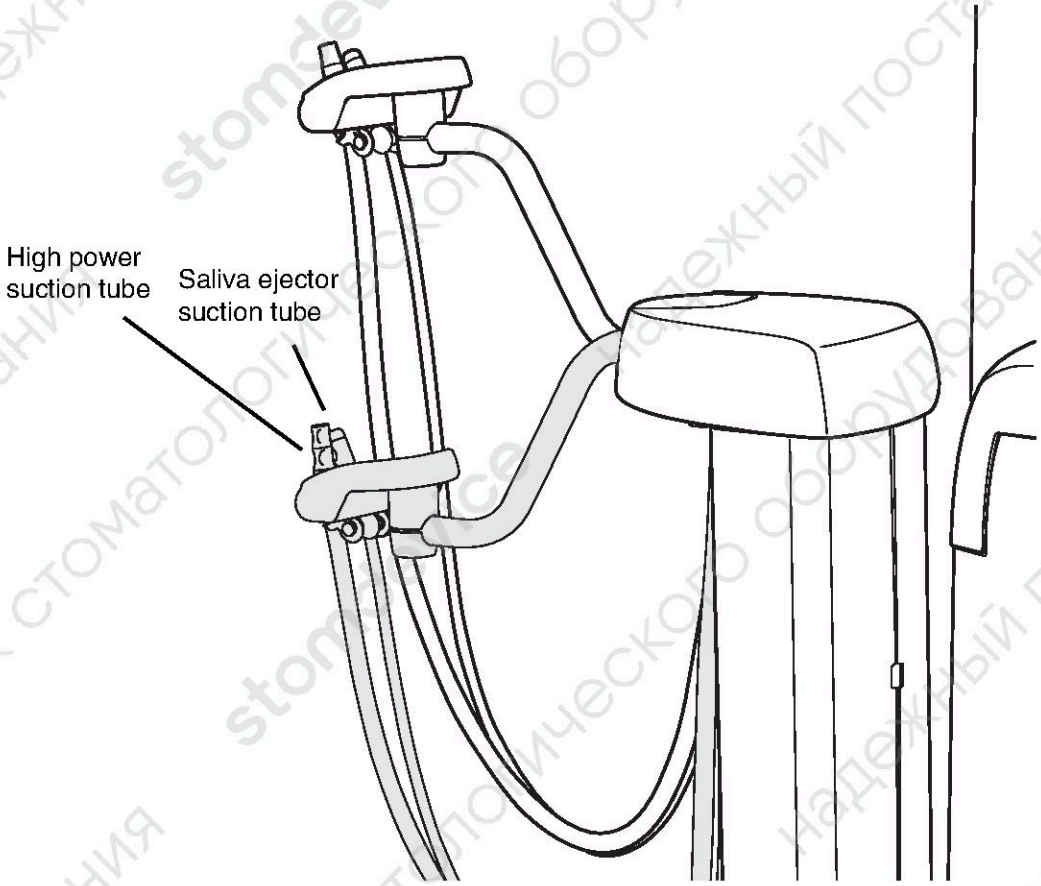


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11.2 Attaching the suction tubes

Attach the suction tubes to the suction tube connectors on the cuspidor side. Secure them in position with the securing rings. It is of no importance in which order you connect the suction tubes.



Route the suction tubes along the side of the cuspidor to the suction arm. Place the suction handpieces into to suction tube holders in a way that the tubes do not cross each other.

11.3 Attaching the assistant element's instruments

If the assistant element is equipped with a 3 position holder, a syringe, scaler or LED polymerization light can be attached to the assistant element.

If the assistant element is equipped with instrument multiplexer and with 5 position holder, you can attach also rotating instruments to assistant element.

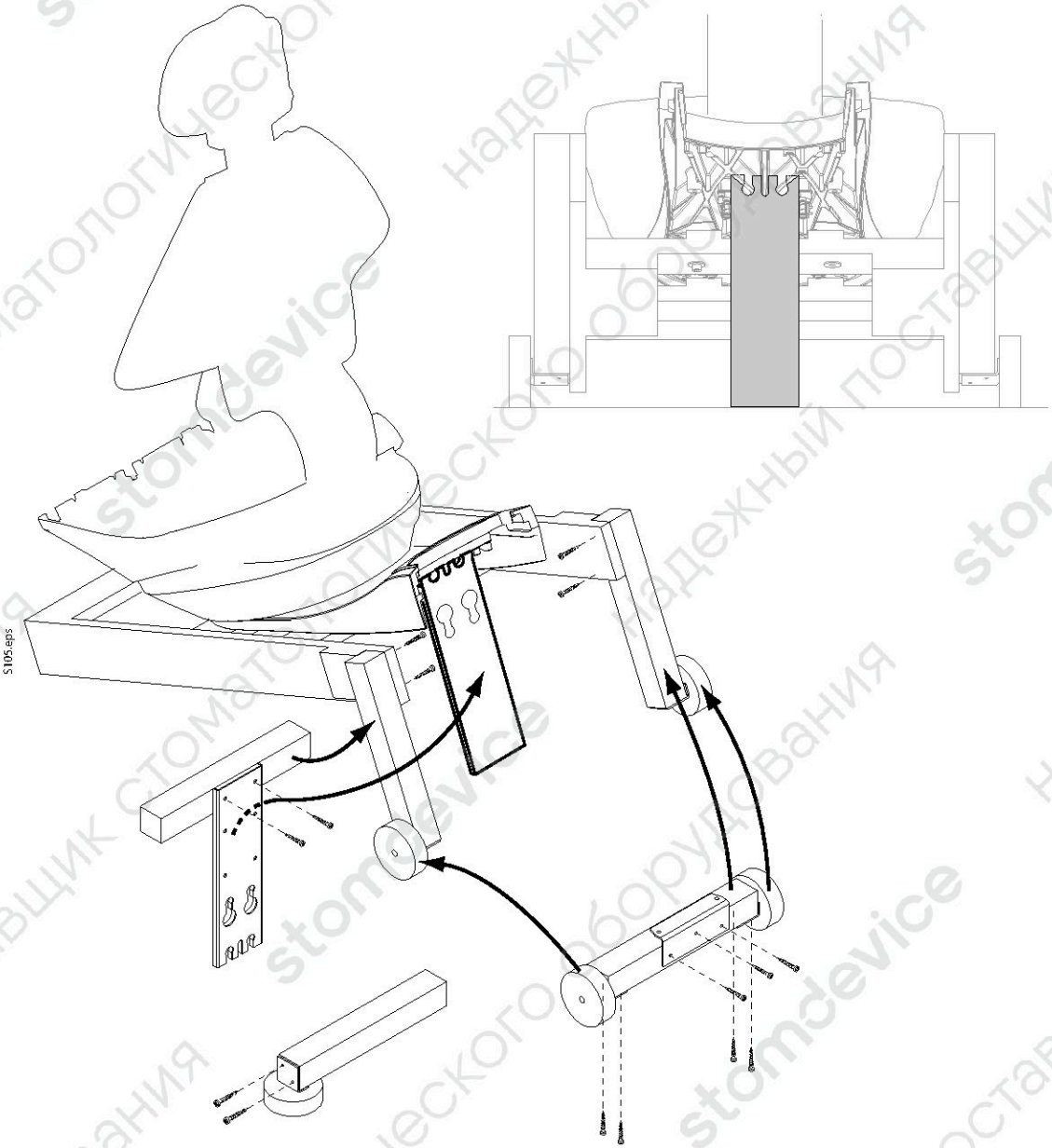
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12 INSTALLING THE PATIENT CHAIR

12.1 Attaching the chair to the cuspidor

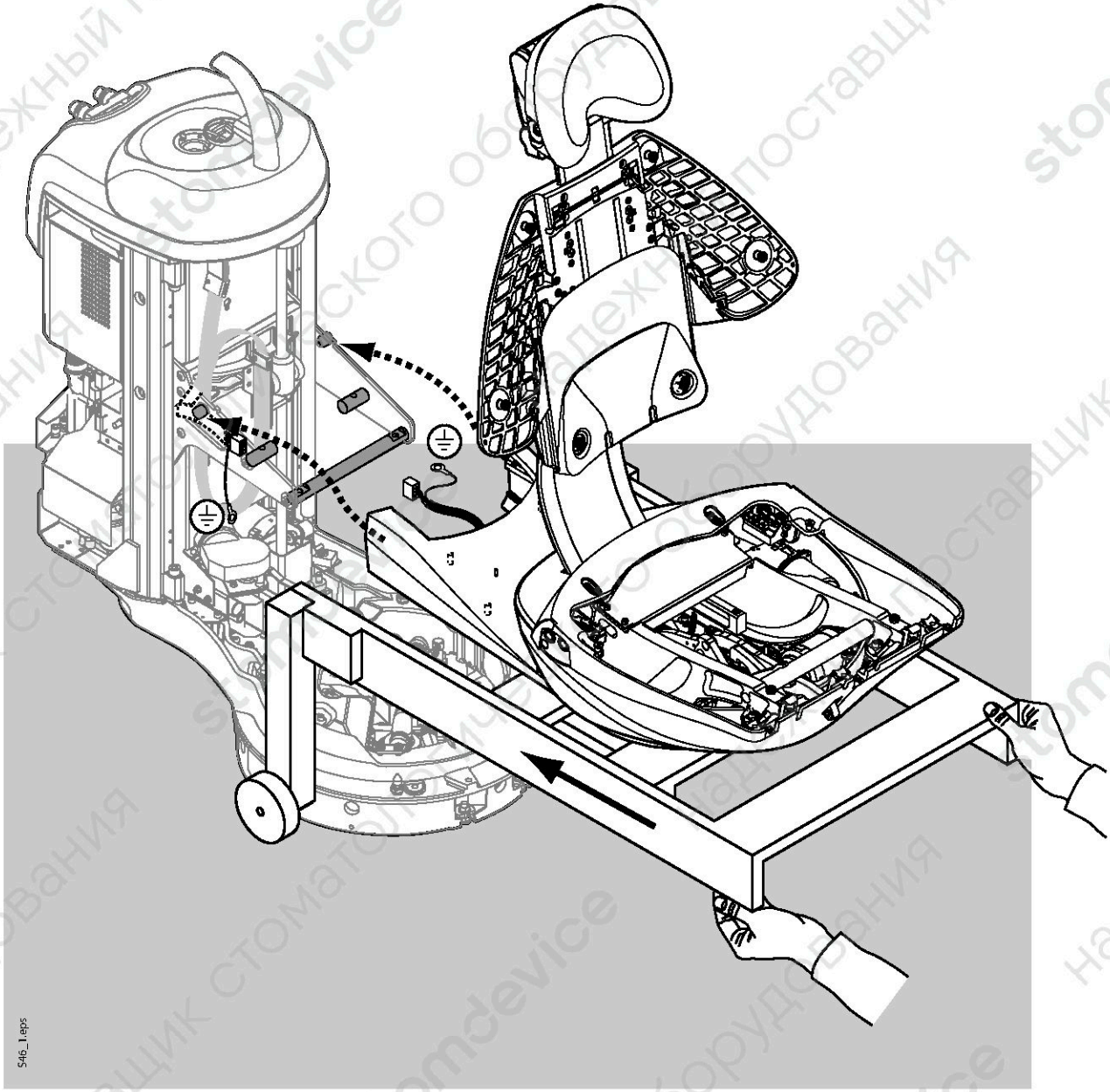
The patient chair is attached to the wooden frame that is used as an auxiliary device when attaching the chair to the lifting adapter in the cuspidor. Remove the attachment plate from the block of wood and support the frame with the attachment plate. Detach the wheels from the block of wood and attach the wheels to the blocks as shown on the figure below.



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Slide the patient chair into the lifting adapter of the cuspidor. Place the chair in a way that the patient chair supports that are attached to the lifting adapter go to the grooves of the chair adapter.



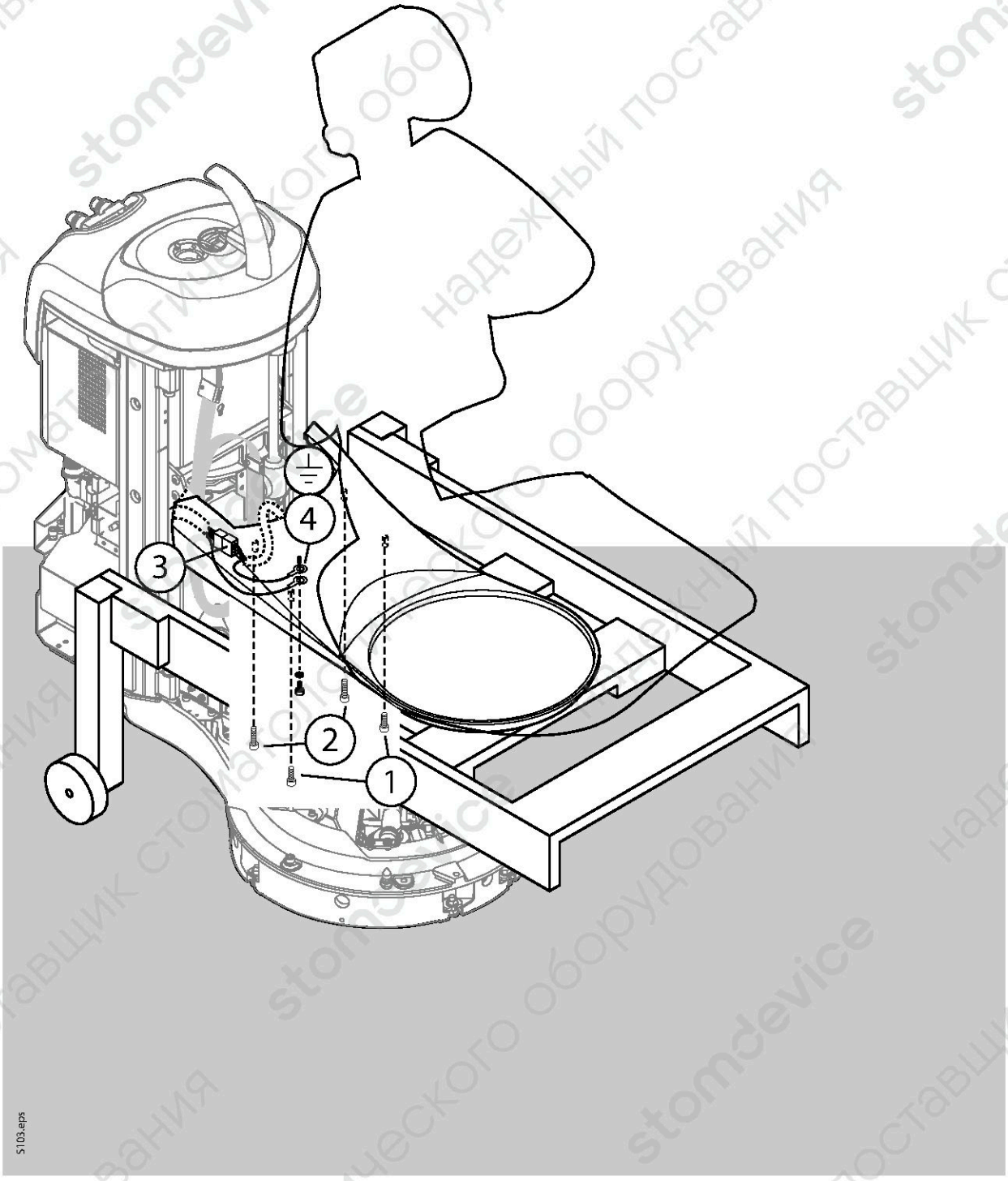
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Secure the chair into position with the four attachment screws (shorter screws (1) farther from cuspidor, longer screws (2) closer).

Connect the chair cable connector to the cable coming from the cuspidor (3).

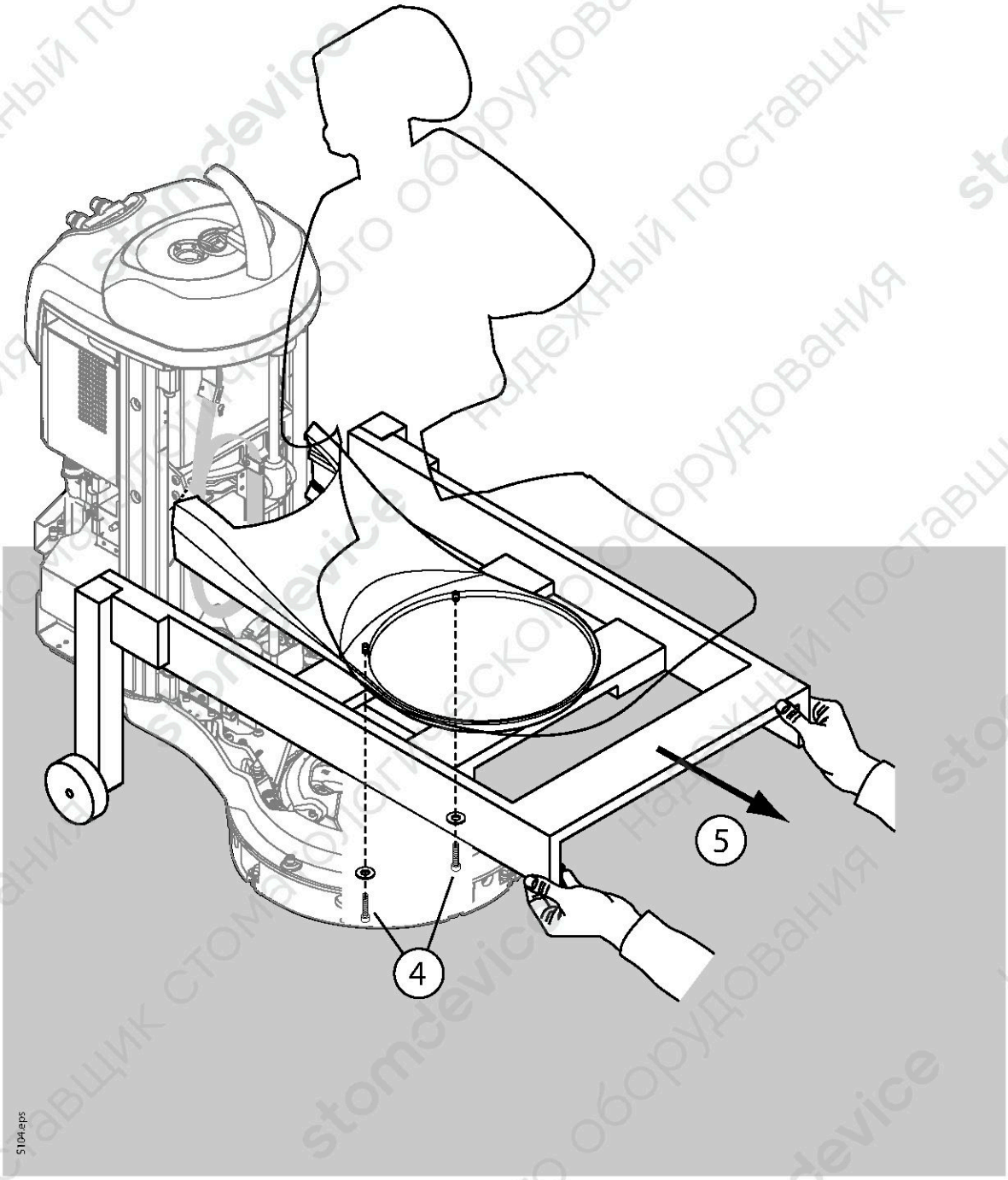
Attach the grounding cables to the grounding point located on the chair support plate (4).



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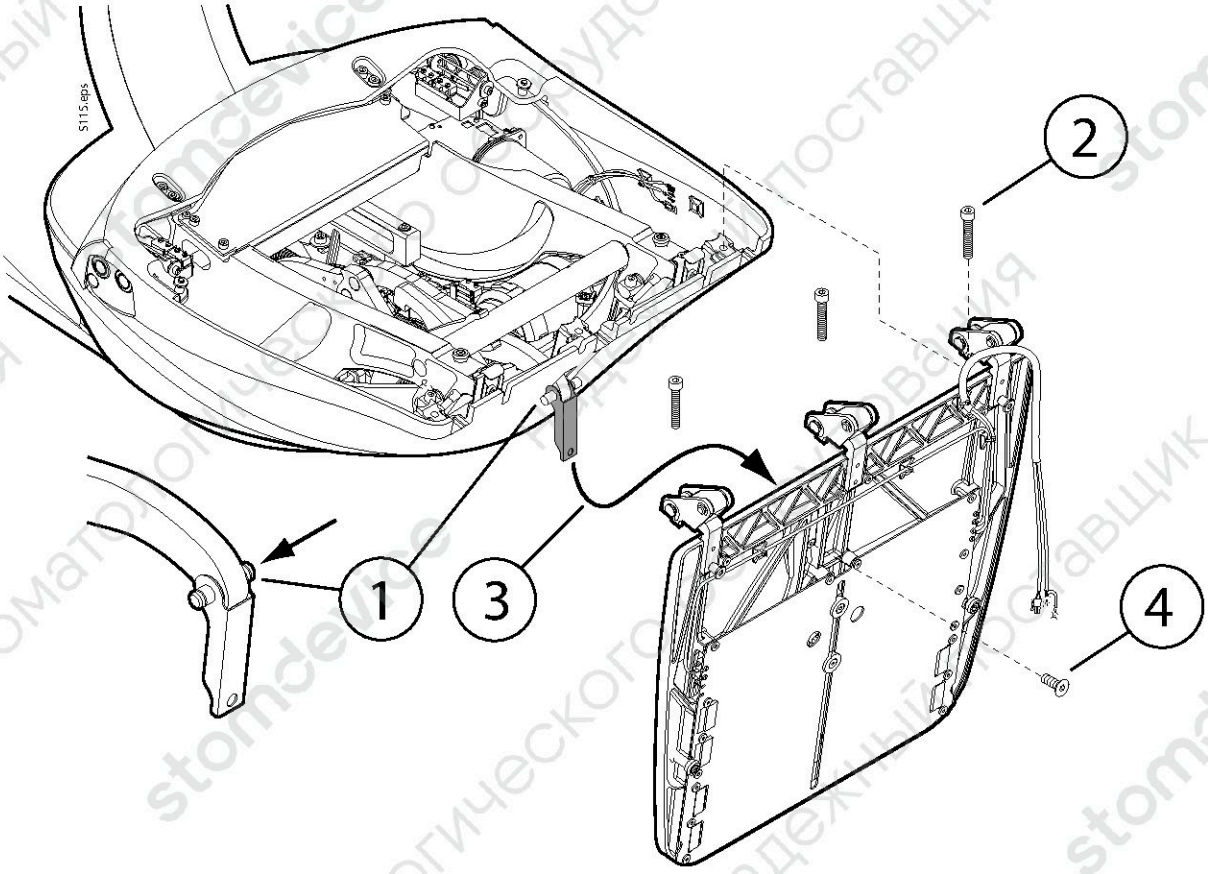
Unscrew the wooden frame attachment screws using a 6 mm Allen key (4) and remove the frame (5).



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Attach the legrest to the seat as follows. Attach the legrest support to the legrest fork with a pivot (1). Attach the legrest to the seat casting with three attachment screws using a 6 mm Allen key (2). Slide the legrest support to other side of the legrest (3) and secure it with one attachment screw using a 3 mm Allen key (4).

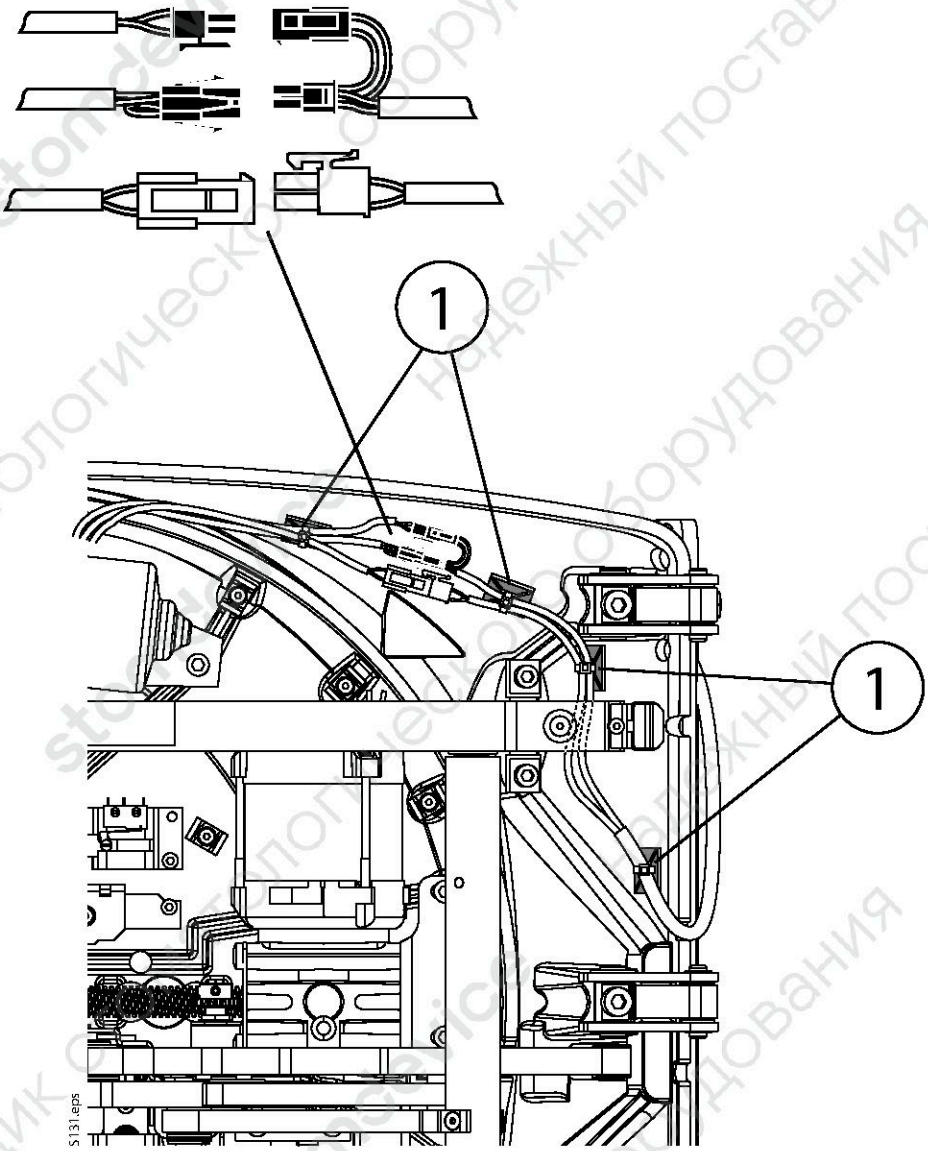


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Route the legrest cables into the seat casting. Connect the legrest cables to the cables located on the casting as shown on the figure below.

Attach the legrest upholstery to its position and lift the legrest up. Adjust the legrest cable positions so that the cables do not tighten in upper position. Secure the cables with cable ties (1).

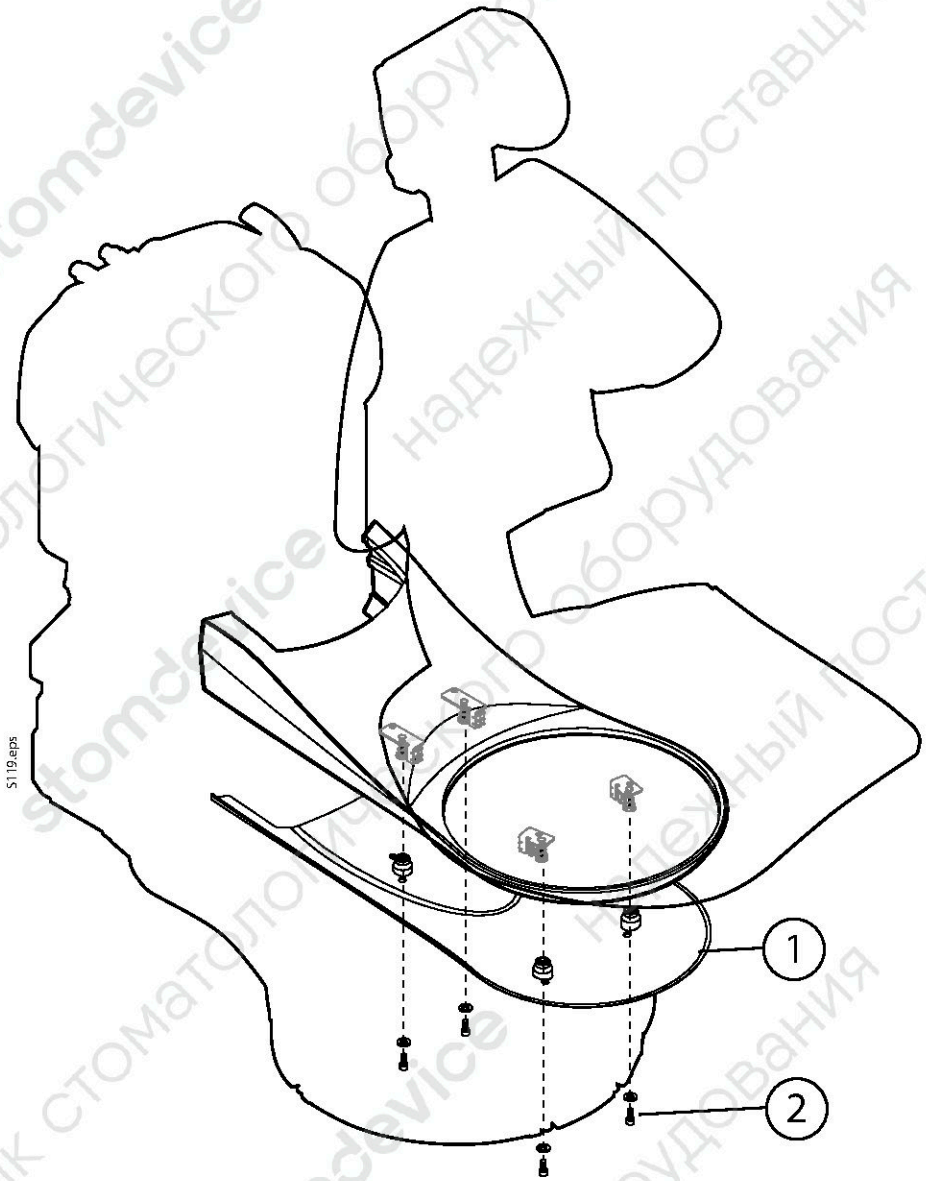


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12.2 Attaching the seat bottom plate

Attach the seat bottom plate (1) to its position with four attachment screws and washers (2).



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12.3 Attaching the upholsteries

12.3.1 Headrest upholstery

Drive the headrest to the position where you can reach the attachment screws. Switch off the dental unit. Place the headrest upholstery to the headrest assembly and tighten the screws at the back of the headrest assembly.



12.3.2 Backrest upholsteries

The backrest upholsteries are attached to the backrest casting with attachment pins.

Press the backrest upholsteries to their positions so that the attachment pins go into the openings on the upholstery.



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12.3.3 Legrest upholstery

The legrest upholstery is attached to the legrest with four attachment pins located on the legrest. The upper attachment pins go into the grooves located on the legrest upholstery and the lower pins are attached to their counterparts.



Slide the legrest upholstery downwards so that the attachment pins go into the grooves of the upholstery's backplate (1). Attach the lower edge of the backrest upholstery by pressing it towards the legrest (2).



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12.3.4 Seat upholstery

Slide the seat upholstery towards the legrest so that the attachment pins go into the grooves of the upholstery's backplate (1)

Pull the edge of the seat upholstery towards the seat (2).

Press the legrest down and tighten the two attachment screws located on the front edge of the seat casting.

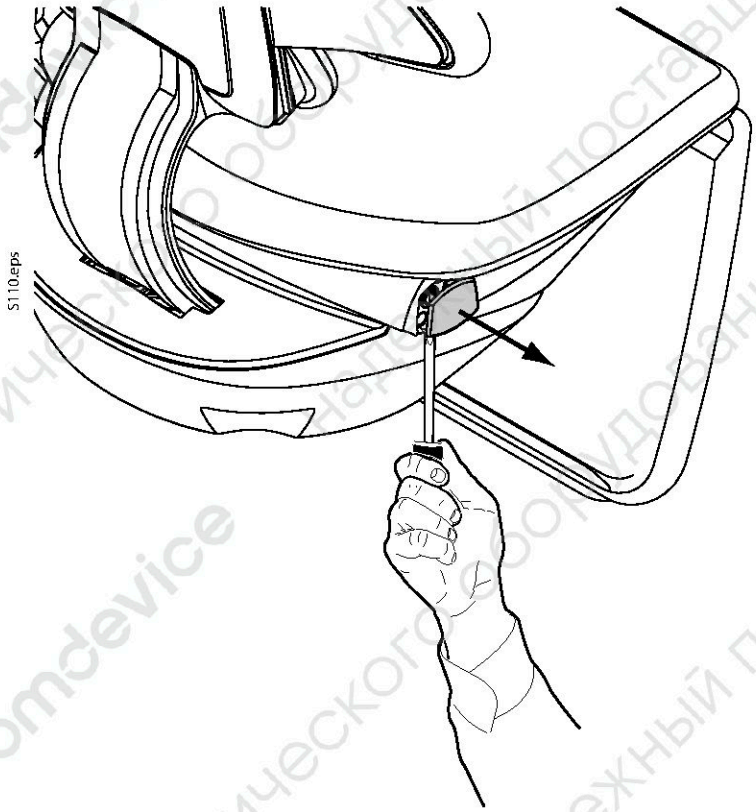


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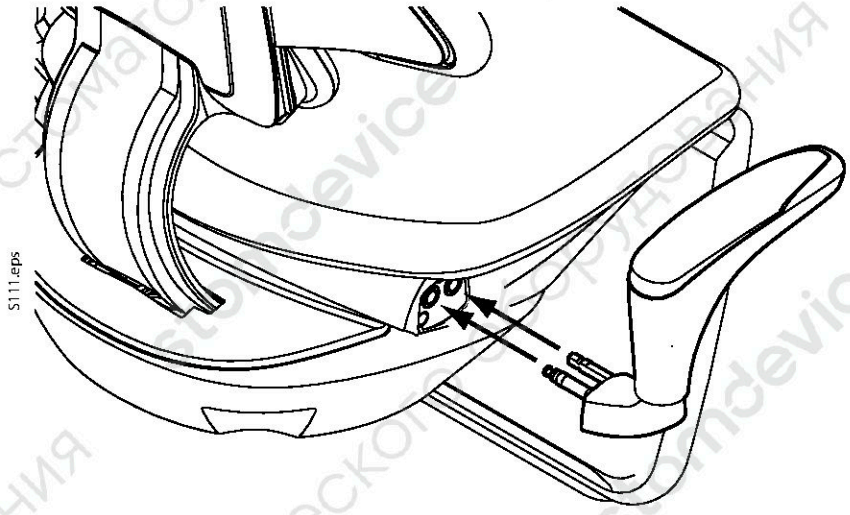
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12.4 Attaching the armrests

If the armrest opening cover is attached to the seat, remove it with a e.g. flat-head screwdriver.



Push the armrest firmly to the seat openings until it locks to its position.



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13 INSTALLING THE SIDE DELIVERY ARM

When removing the arm from the package do not remove the support cardboard from below the arm. This support will lift the arm to correct height during the installation.

WARNING

The arm is attached to the transport position with a cable tie. The force of the arm gas spring will lift up the arm fast when the cable tie is cut. EXTREME CAUTION MUST BE EXERCISED WHEN CUTTING THE CABLE TIE.

Press the arm down with your whole weight when cutting the cable tie (see figure below). Then slowly allow the arm to rise up.

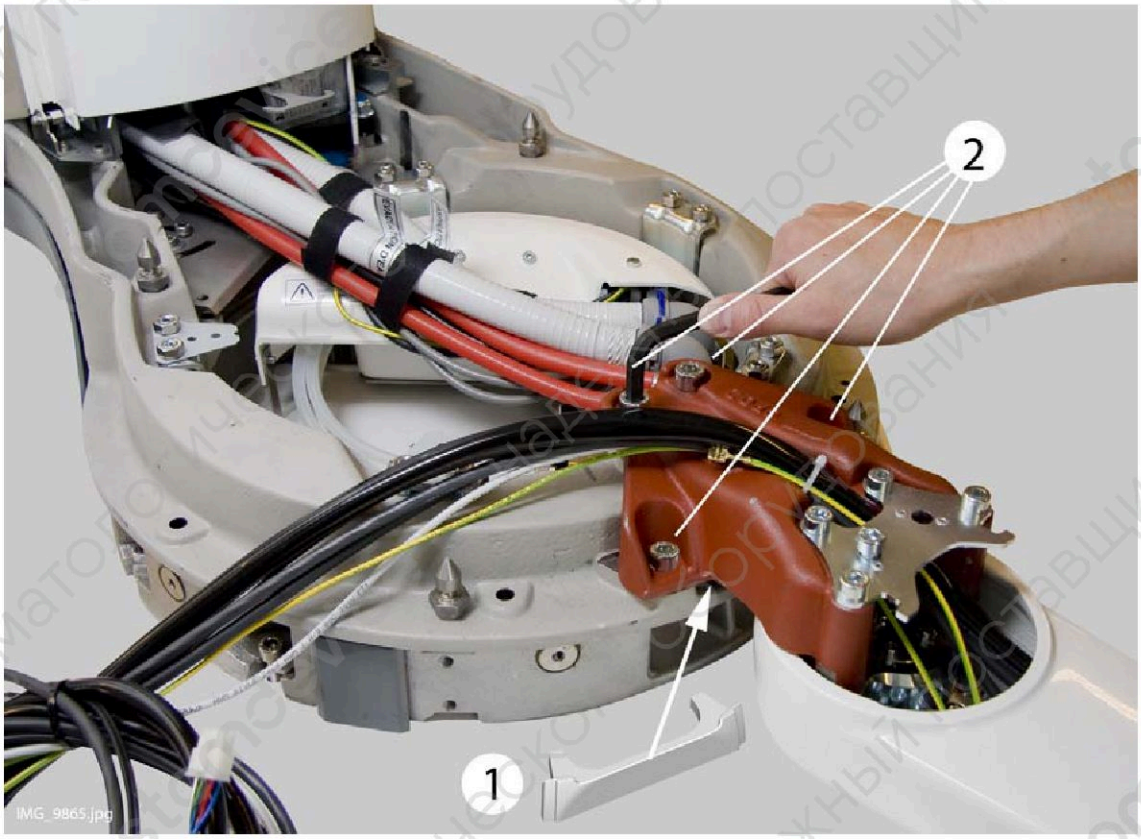


Turn the level arm 180 degrees.

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Place the silicone cover between the arm attachment bracket and base (1) and attach the arm to the base with four attachment screws (2) using a 8 mm Allen key. Tighten the screws firmly.



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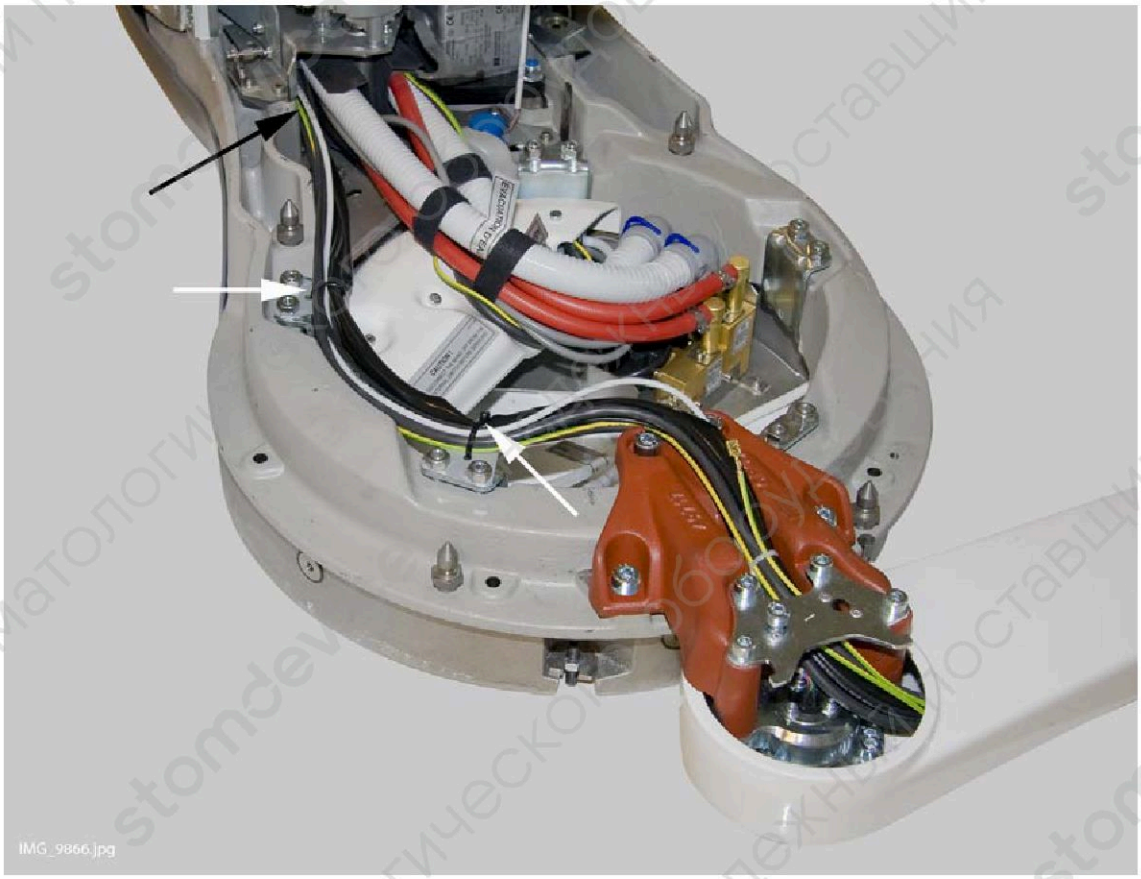
Cut the cable ties that attach the support cardboard to the arm and slide the support away from the arm.



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Cut the cable ties that bunch the arm cables and tubes. Route the cables and tubes into the cuspidor from below the lifting motor. Turn the arm counterclockwise to extreme position and attach the cables and tubes to the base casting so that they are a bit loose (see figure below).



Connect the arm cables and tubes according to the instructions given in section 8.3 “Installing the fixed OP delivery arm” on page 65. Connect the side delivery arm potentiometer cable to the connector P5 on the Mamco PCB located on the cuspidor electronic box. Attach the arm grounding lead to the grounding point located on the cuspidor.

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Push the limiter o-ring and plastic bushing downwards onto the arm axle.



Rotate the locking nut down.



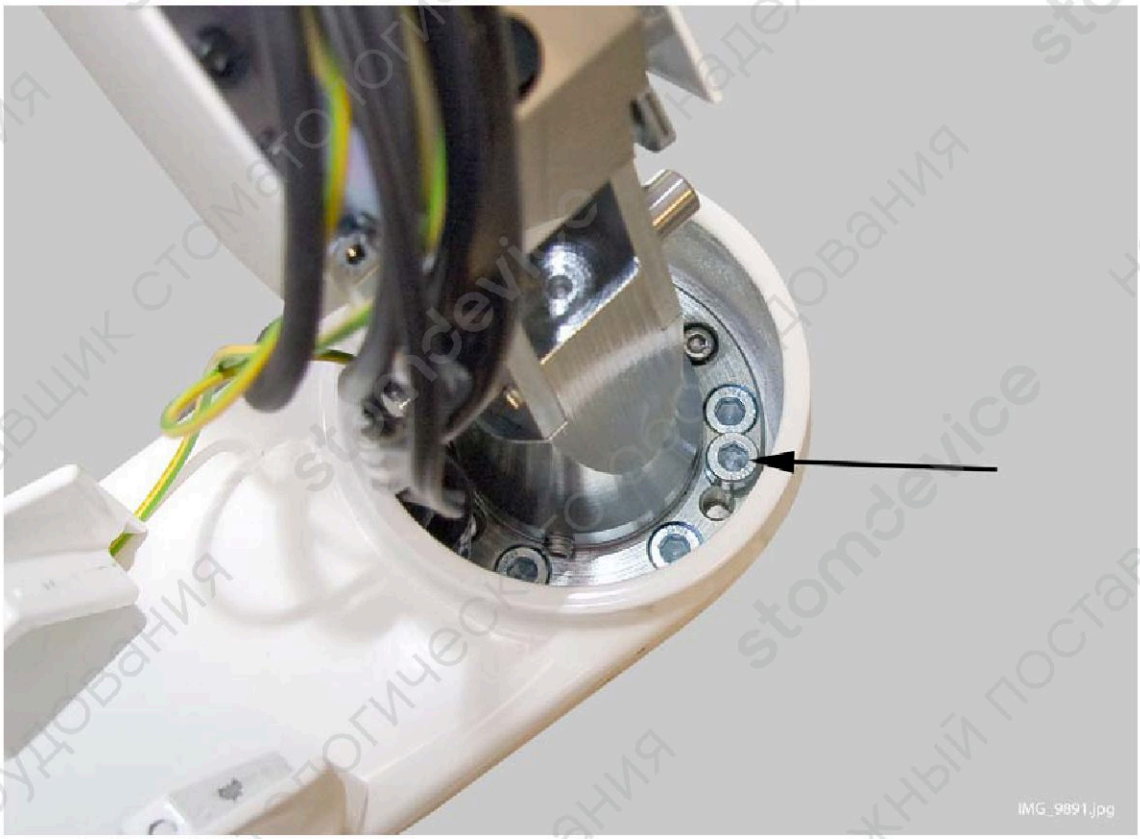
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Remove the level arm lower joint cover.



Attach the rotation limiter to its position (see figure below) using a 6 mm Allen key.



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Attach the cover back to its position and secure the cables and tubes with two cable ties.



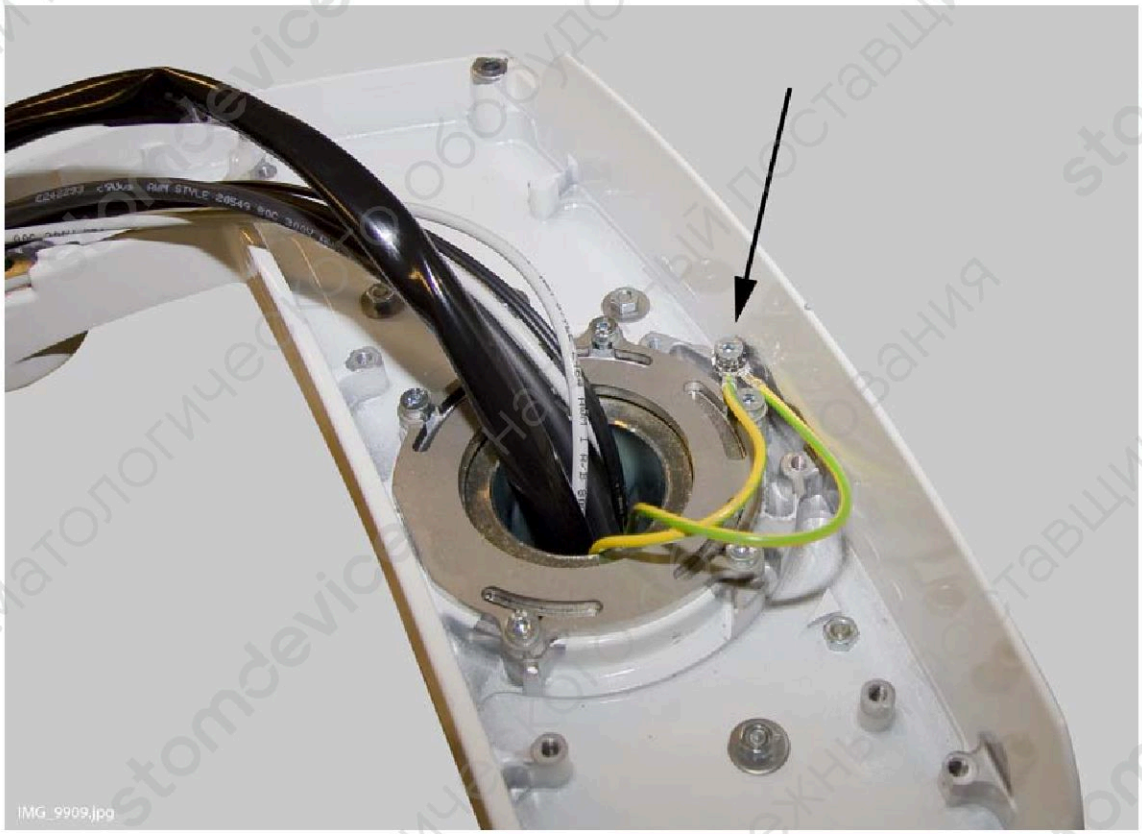
Attach the instrument console to the console bracket using the support plate. Tighten the attachment screws using a 3 mm Allen key.



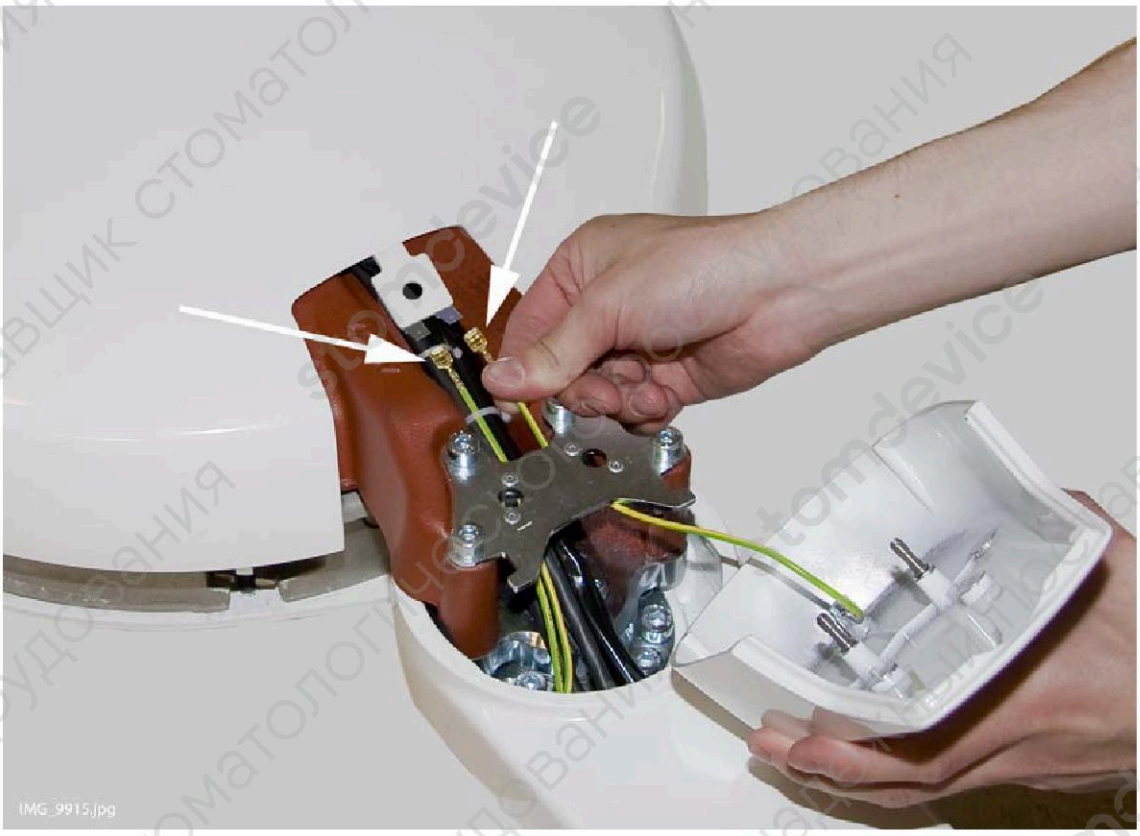
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Route the arm cables and tubes to the instrument console. Connect the cables and tubes according to the instructions given in section 8.5 “Installing the HT instrument console” on page 78. Note, that **two** grounding leads coming from the arm must be attached to the console grounding point. Attach the instrument console cover.



Attach the cuspidor and base covers. Attach the arm and joint cover grounding leads to the base grounding points and press the base joint cover to its position.



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Attach the level arm lower joint cover to its position. Pull first the upper part into the arm, then place the lower part to its position.



Attach the console arm cover to its position with one attachment screw using a 3 mm Allen key.



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The rotational and lifting frictions of the side delivery arm can be adjusted, if needed. Perform these adjustments before attaching the level arm cover. Refer to section 18.2 “Adjusting the side delivery arm” on page 172.

Attach the level arm cover grounding lead to the arm grounding point.



Press the level arm to its position.



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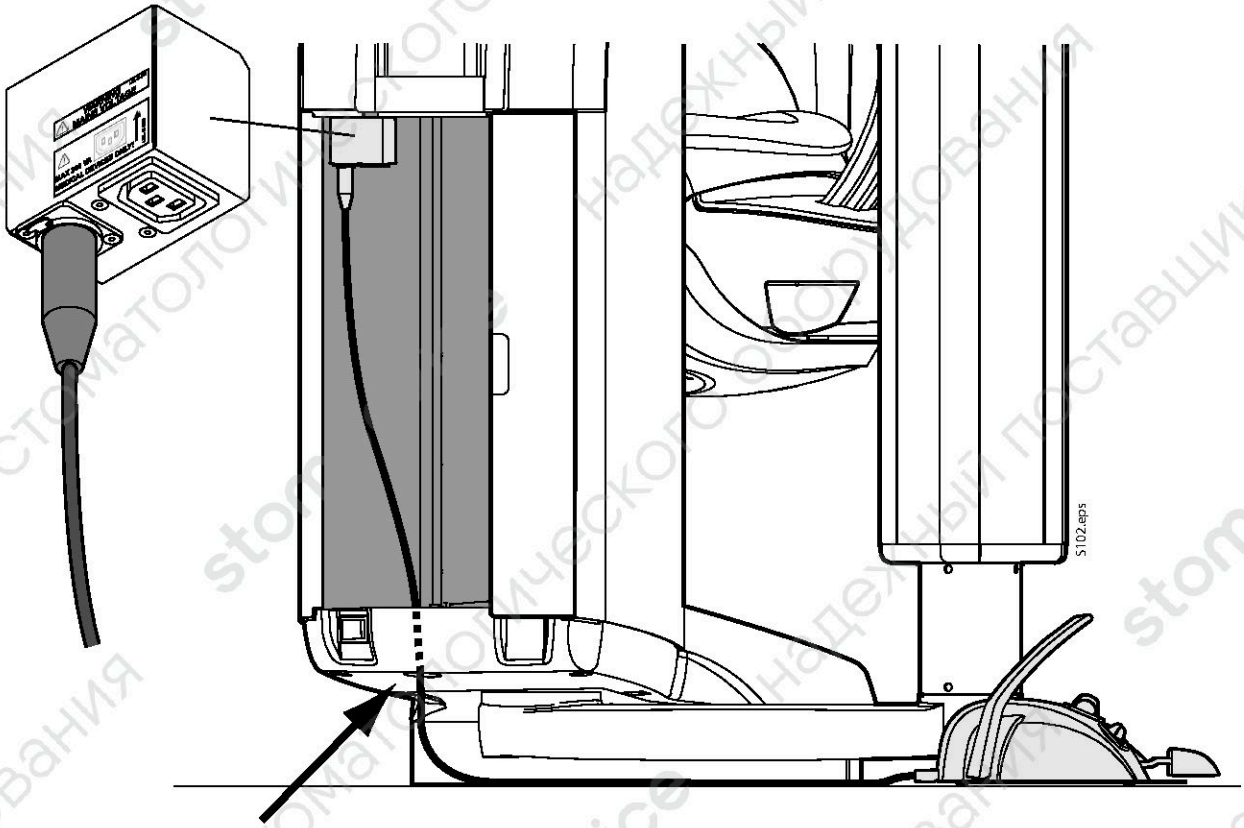
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14 CONNECTING THE FOOT CONTROL

Route the foot control cable through the cuspidor bottom plate opening to inside the cuspidor.

Open the cuspidor back door. Connect the foot control cable to the connector located at the right side of the electronics control box by pushing it into position.

Shut the cuspidor back door.



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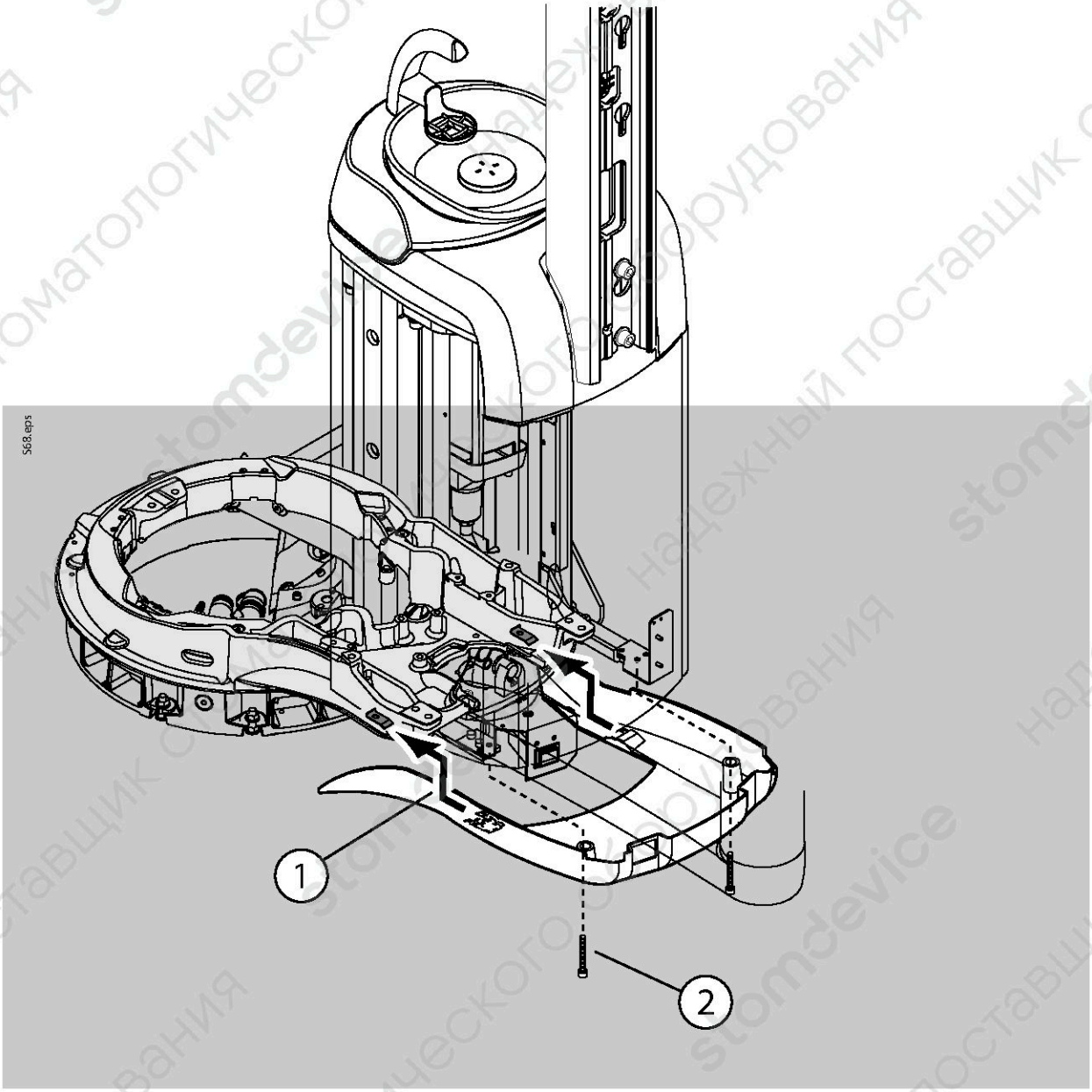
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15 ATTACHING THE COVERS

15.1 Cuspidor bottom plate

Slide the cuspidor bottom plate to its position from behind the cuspidor as shown on the figure below (1).

Secure the bottom plate to its position with two attachment screws (2).



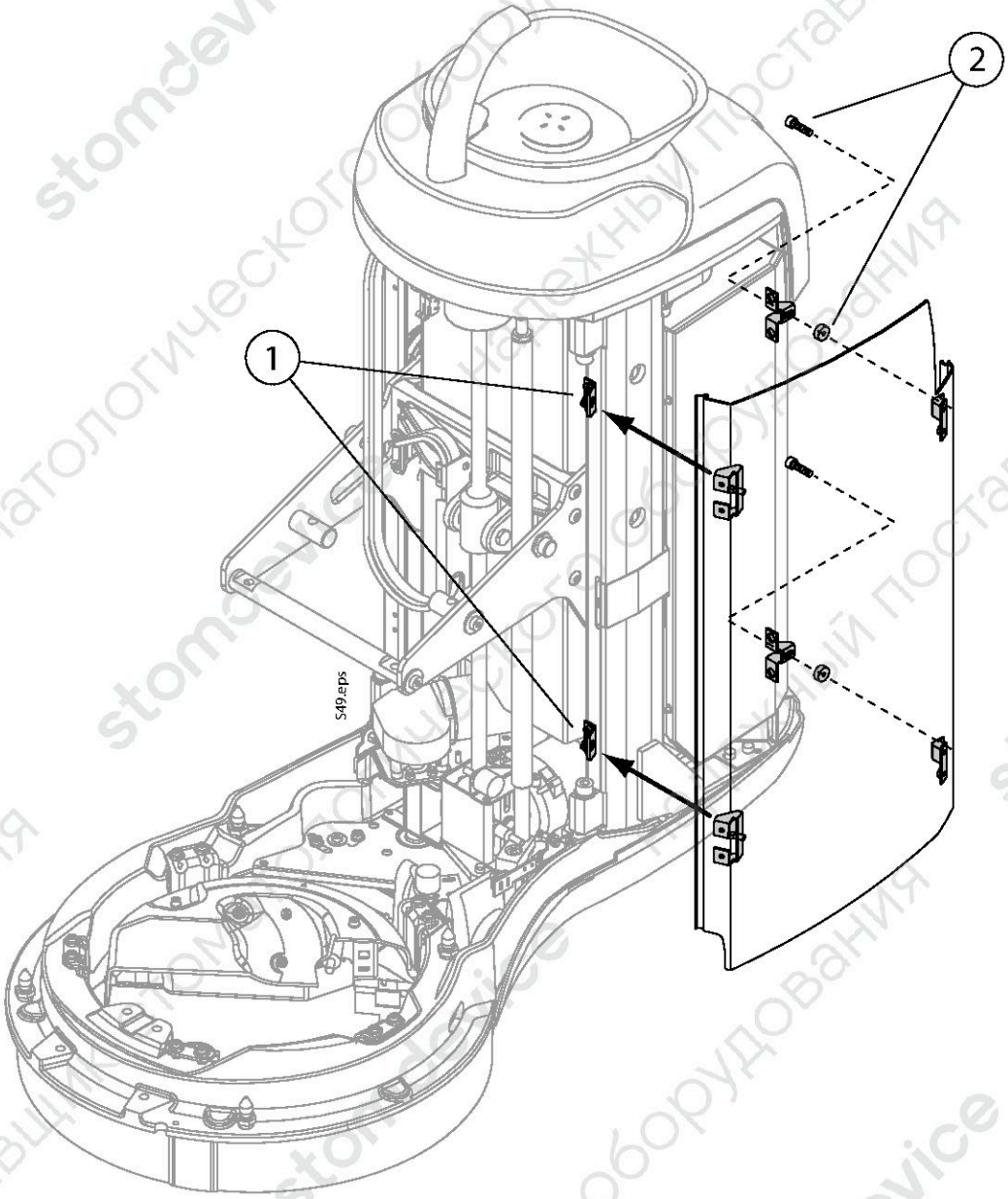
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15.2 Cuspidor side and front covers

Attach the cuspidor side and front panels as follows.

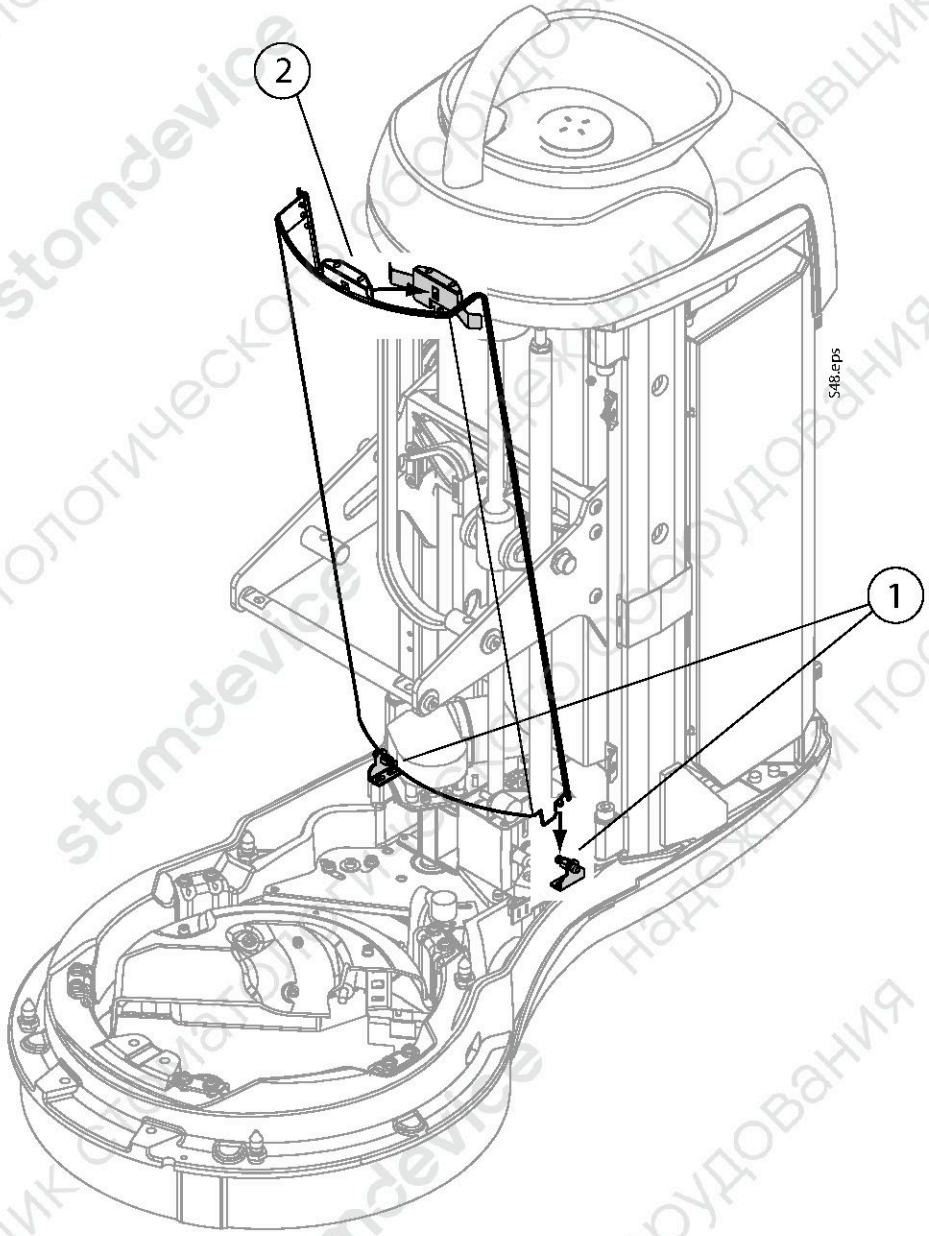
Push the side panel to its position (1). Attach the two attachment screws (2) of the panel.



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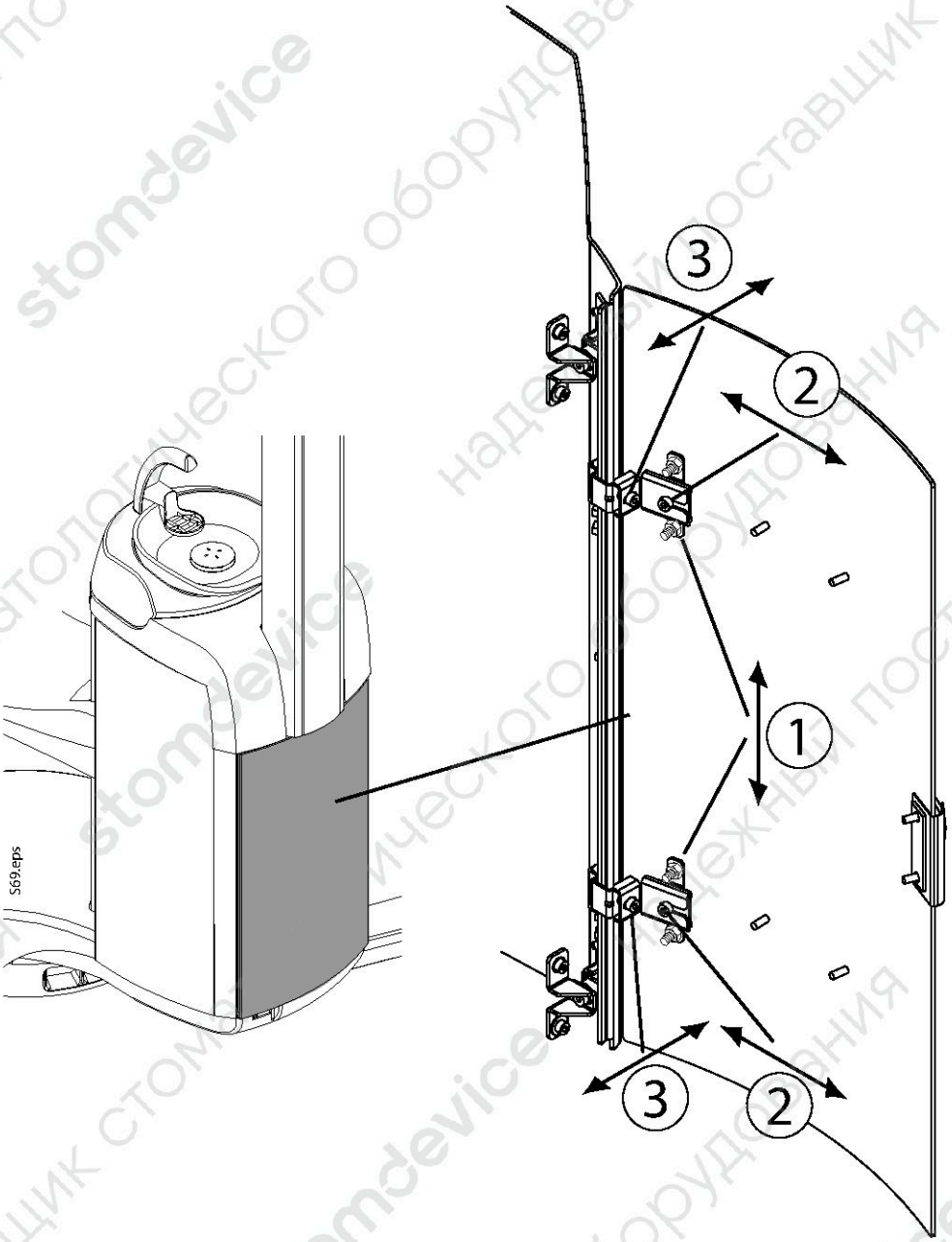
Push the lower edge of the front panel to the attachment clips (1) and attach the panel upper edge to locking piece (2).



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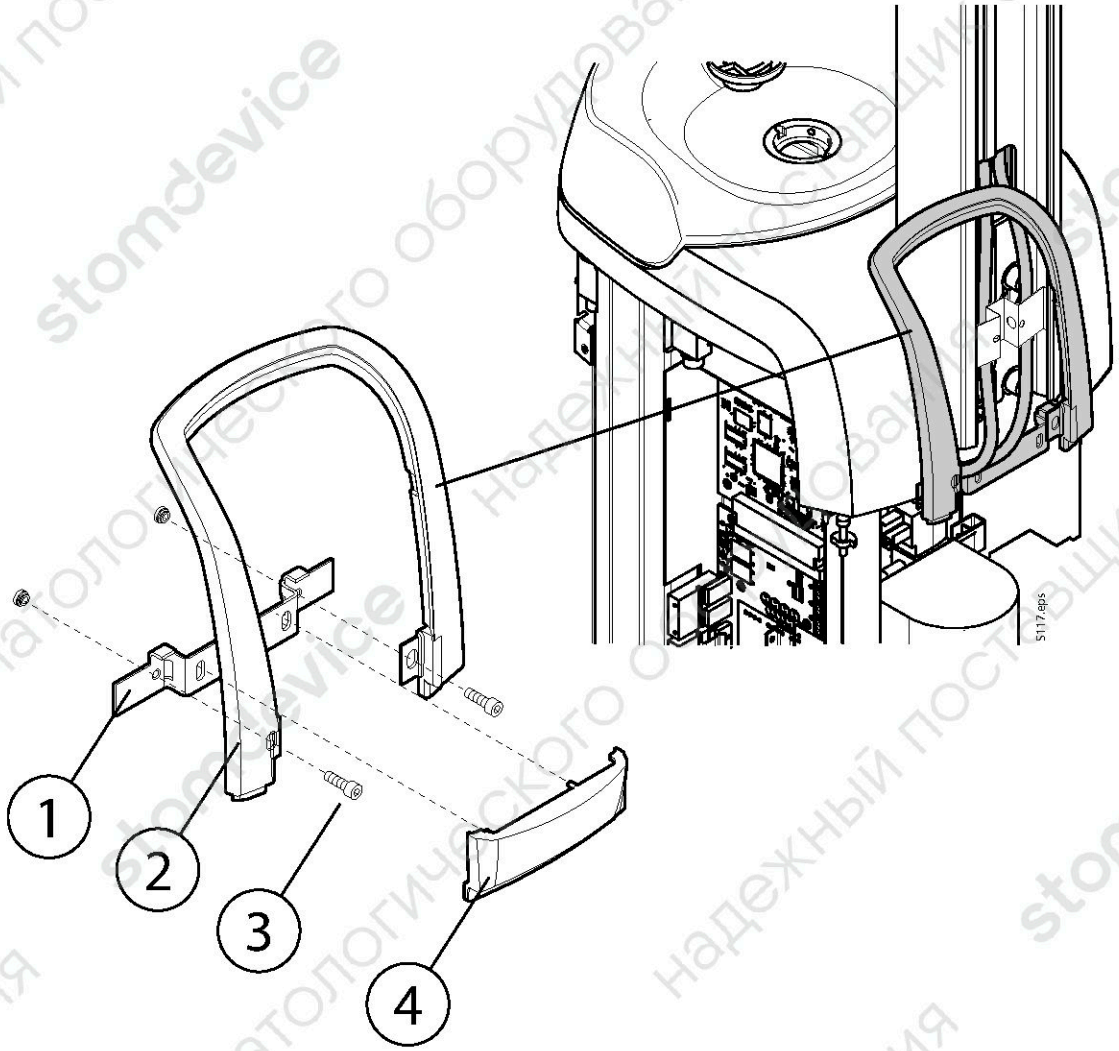
Attach the cuspidor door to its position. Adjust the hinge positions (1, 2 and 3) so that the door closes properly.



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Attach the pylon collar (2) to its position with the attachment plate (1) and two screws (2). Attach the cover plate (4).

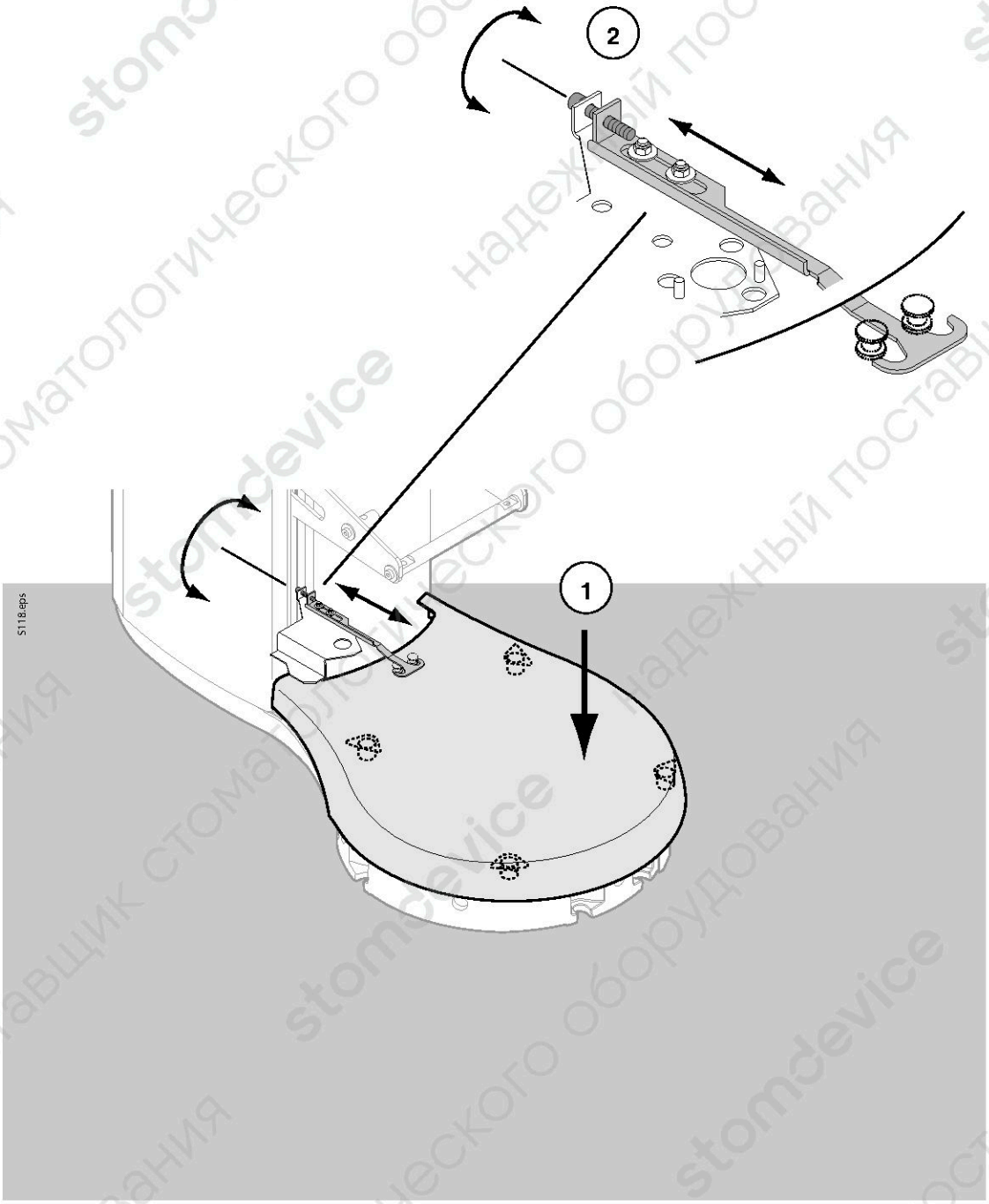


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15.3 Base cover

Push the base cover to its position (1). The base cover attachment mechanism is located inside the cuspidor. Rotate the mechanism screw using a 6 mm Allen key to move the mechanism arm and to lock the cover attachment (2).

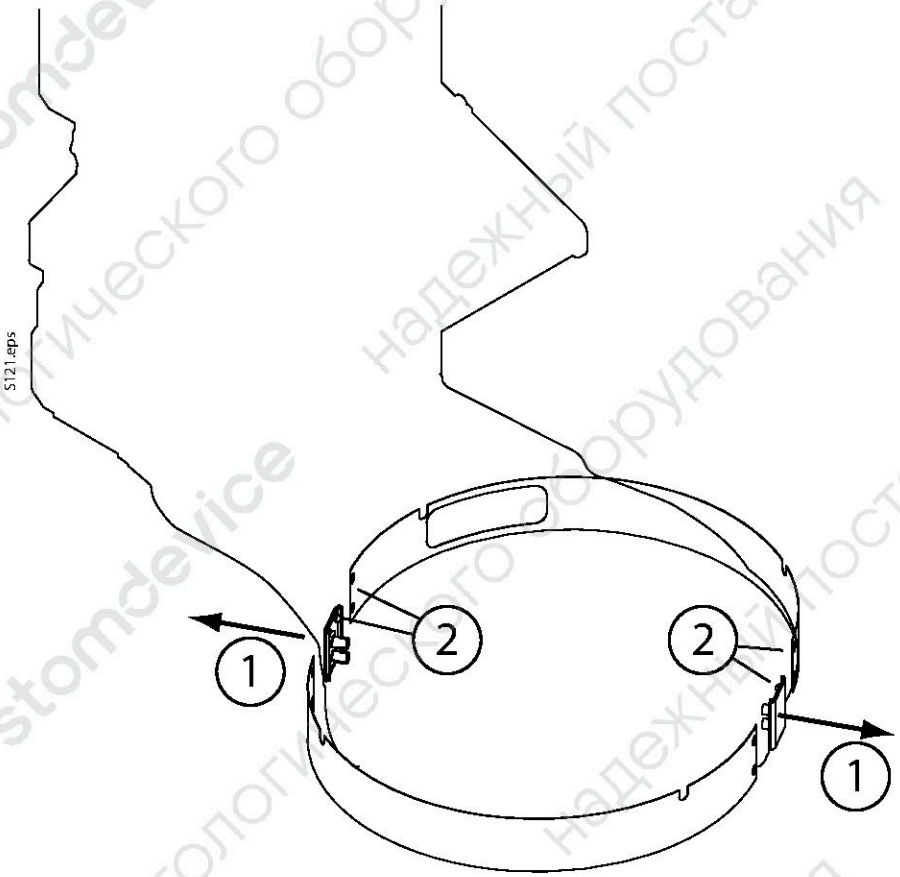


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15.4 Base footing strips

Pull the locking pieces (1) outwards and place the footing strips under them (2). Release the locking pieces.

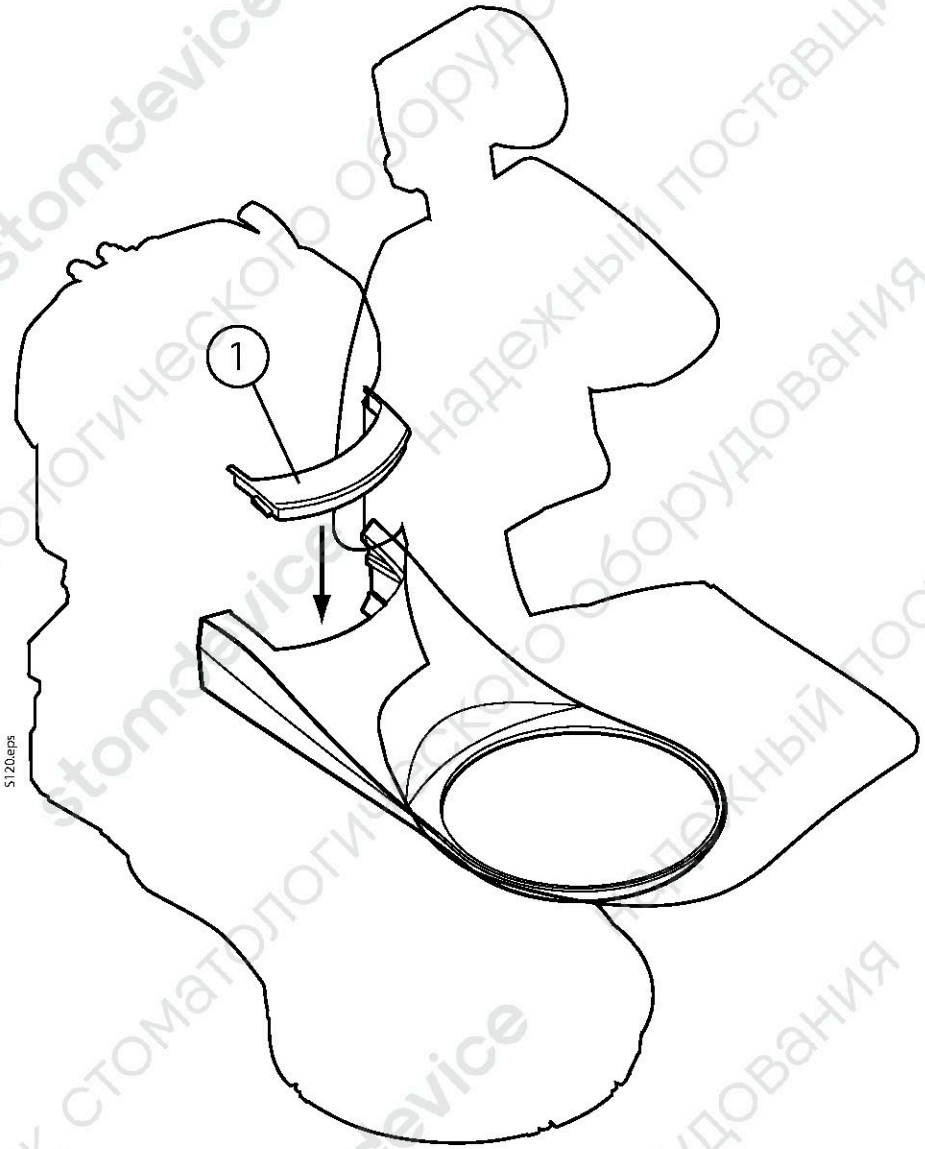


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15.5 Chair adapter cover

Carefully bend the chair adapter cover (1) and push it to its position.



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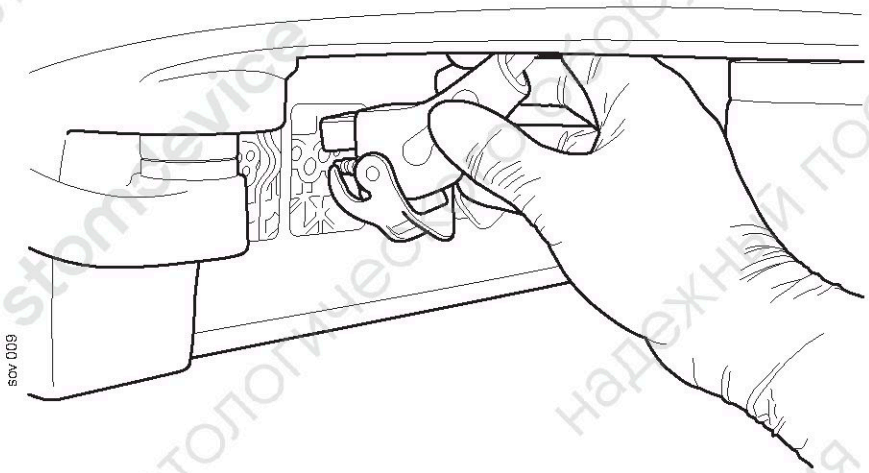
16 INSTALLING THE INSTRUMENTS

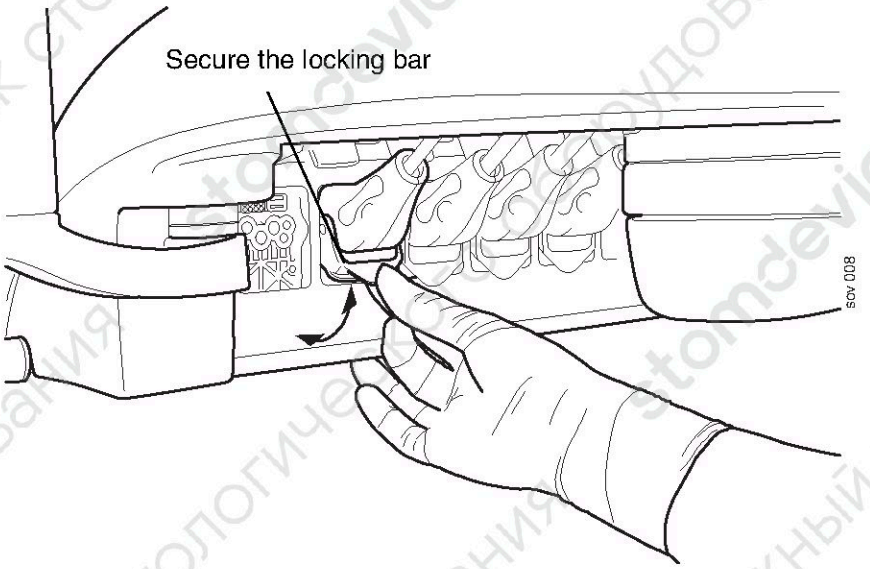
The instruments are equipped with quick connector hoses to be connected to the instrument console. Insert the hose to its place so that the locking mechanism is facing down, and pull down the locking bar.

The instrument location can be changed simply by removing the instrument with its hose and reconnecting it to the new place. The old instrument settings will remain the same despite the new location of the instrument hose.

The instrument selection can also be interchanged. The settings of the eight last used instruments are stored in the memory, and are recalled when the instrument is reconnected.

Note that the length of the instrument hose can be adjusted by routing the hoses through the instrument hose holders. When you use the holders you can easily shorten or lengthen the hoses, thus move the instrument console to different positions without the hoses hindering the console movements.





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17 FINAL ADJUSTMENTS

17.1 Adjusting the OP delivery arm

Adjusting balance of the OP delivery arm

NOTE **The balance of the OP delivery arm should be adjusted when the arm is carrying a normal load, i.e. all the instruments, tray load et.c.**

Before adjusting the tension of the gas spring remove the lifting friction of the balanced arm with a screwdriver. Loosening the screws decreases the friction.



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Unscrew the attachment screw of the middle joint cover using a 3 mm Allen key. Remove the cover.



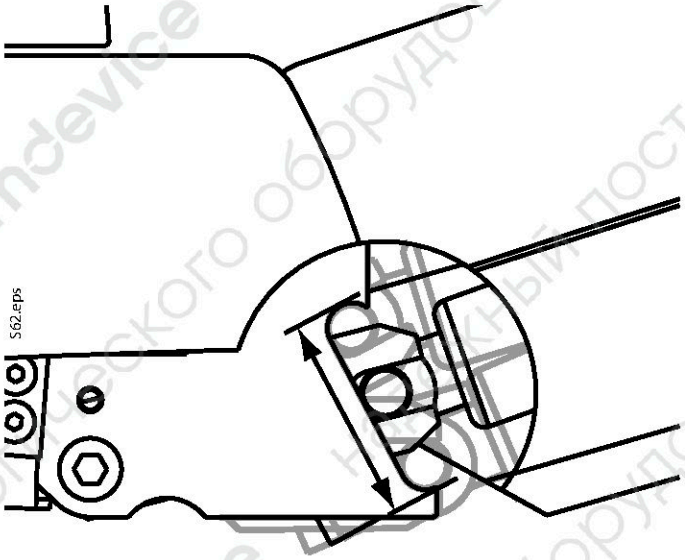
Lift and hold the balanced arm to its upmost position. Adjust the tension of the gas spring by rotating the adjustment screw with a 6 mm Allen key as shown on the figure below. Turning the screw clockwise will increase the tension, i.e, the weight-carrying capacity.



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The gas spring adjustment range is limited and the adjustment has mechanical limits. **Do not loosen or tighten the screw too much (to the extreme position). If the screw is loose, you have adjusted the screw too much and must be adjusted backwards.**



Adjust the balanced arm so that the arm does not move upwards (or downwards) by itself. Check the whole movement area.

Attach the joint cover. Add the lifting friction of the balanced arm slightly so that the arm moves smoothly.



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Adjusting friction of the delivery arm middle joint

Unscrew the attachment screw of the middle joint cover using a 3 mm Allen key. Remove the cover.



Adjust the rotational friction of the middle joint with a 3 mm Allen key. Adjust the two screws of the friction block equally. Tightening the screws increases the friction.



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Adjusting the instrument console rotational friction

Adjust the rotational friction of the instrument console with the adjustment screw located below the instrument console using a 3 mm Allen key. Tightening the screw increases the friction.



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Adjusting the rotational friction of the bracket arm joint (fixed OP delivery arm)

Unscrew the four attachment screws of the horizontal arm lower cover using a 3 mm Allen key. Detach the grounding cable from the cover and remove the cover.



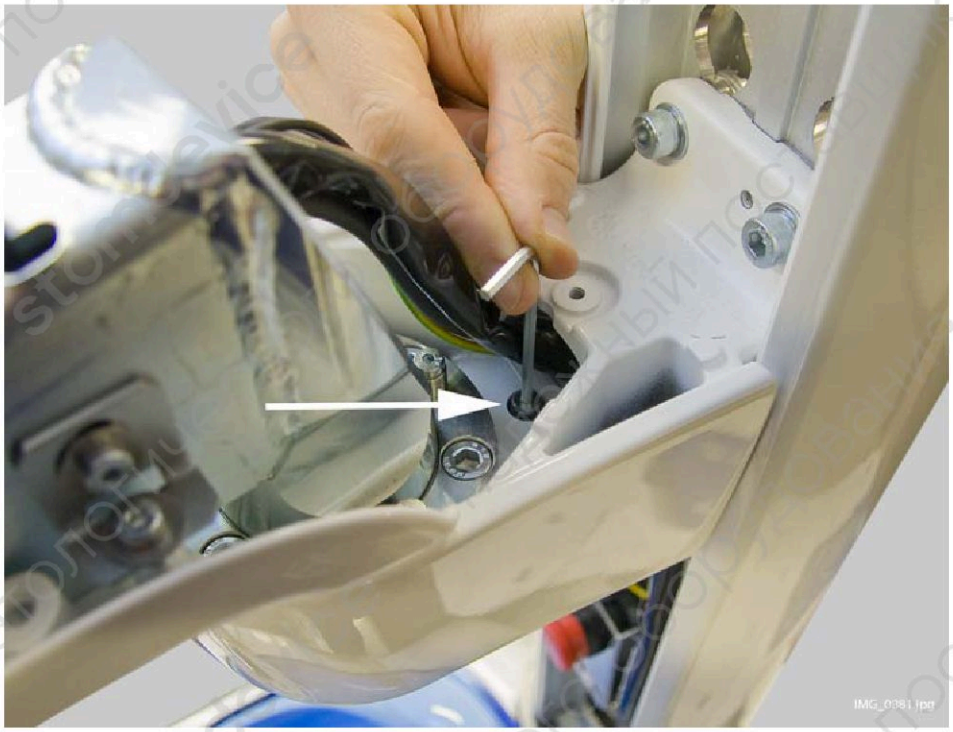
Remove the cover plug from above the bracket arm attachment screw and unscrew the attachment screw using a 3 mm Allen key.



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Adjust the rotational friction of the bracket joint with a 3 mm allen key. Tightening the screw increases the friction.



Attach the removed covers.

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Adjusting rotational friction of the rotating OP delivery arm

Remove the joint back cover.



Adjust the rotational friction of the OP delivery arm with the adjustment screw located inside the joint using a 3 mm Allen key. Tightening the screw increases the friction



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17.2 Adjusting the side delivery arm

Adjusting balance of the side delivery arm

NOTE **The balance of the side delivery arm should be adjusted when the arm is carrying a normal load, i.e. all the instruments, tray load et.c. You can use the level arm cover as a weight when adjusting the balance.**

Remove the level arm cover.

Before adjusting the tension of the gas spring remove the lifting friction of the balanced arm with a 4 mm Allen key. Loosening the screws decreases the friction.



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Push and hold the level arm to its down most position. Adjust the tension of the gas spring by rotating the adjustment screw with a 6 mm Allen key as shown on the figure below. Turning the screw clockwise will increase the tension, i.e, the weight-carrying capacity.



Add the lifting friction of the level arm slightly so that the arm moves smoothly.

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Adjusting friction of the level arm lower joint

Remove the joint cover.

Adjust the rotational friction of the joint with a 4 mm Allen key. Adjust the two screws of the friction block equally. Tightening the screws increases the friction.





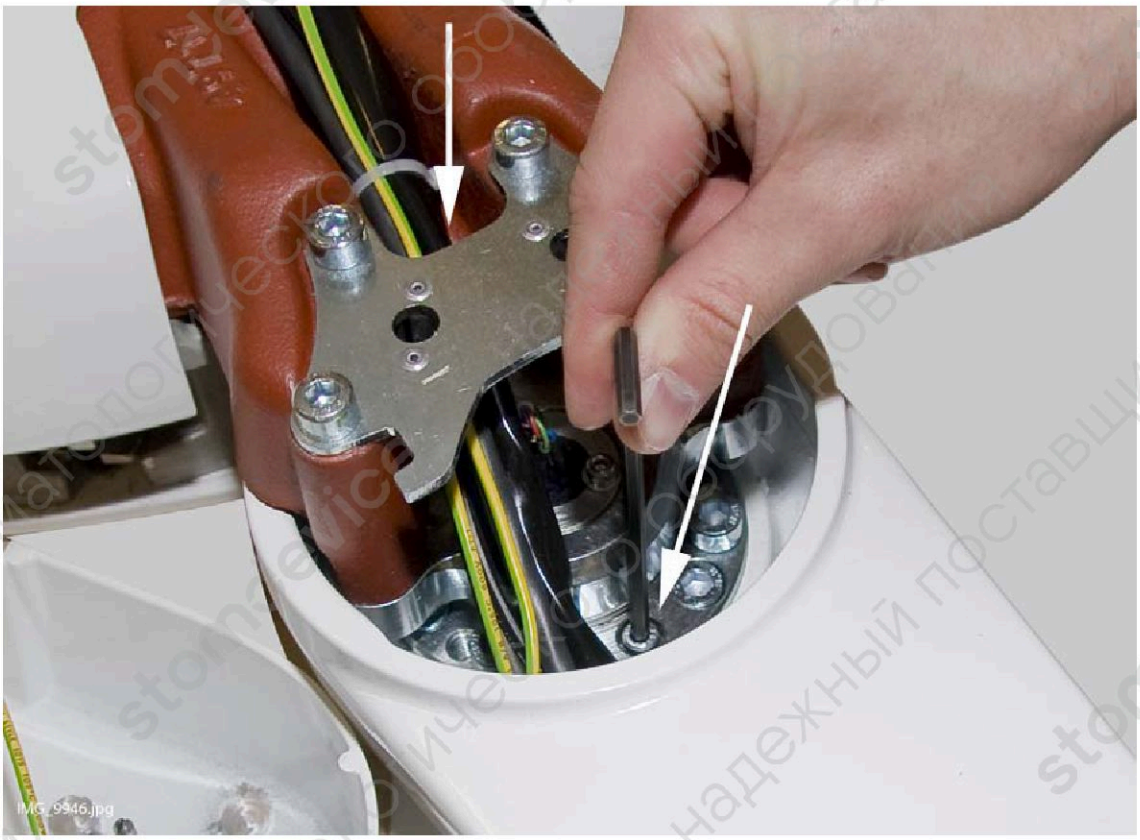
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Adjusting the rotational friction of the base joint

Remove the joint cover.

Adjust the rotational friction of the joint with a 4 mm Allen key. Adjust the two screws of the friction block equally. Tightening the screws increases the friction.



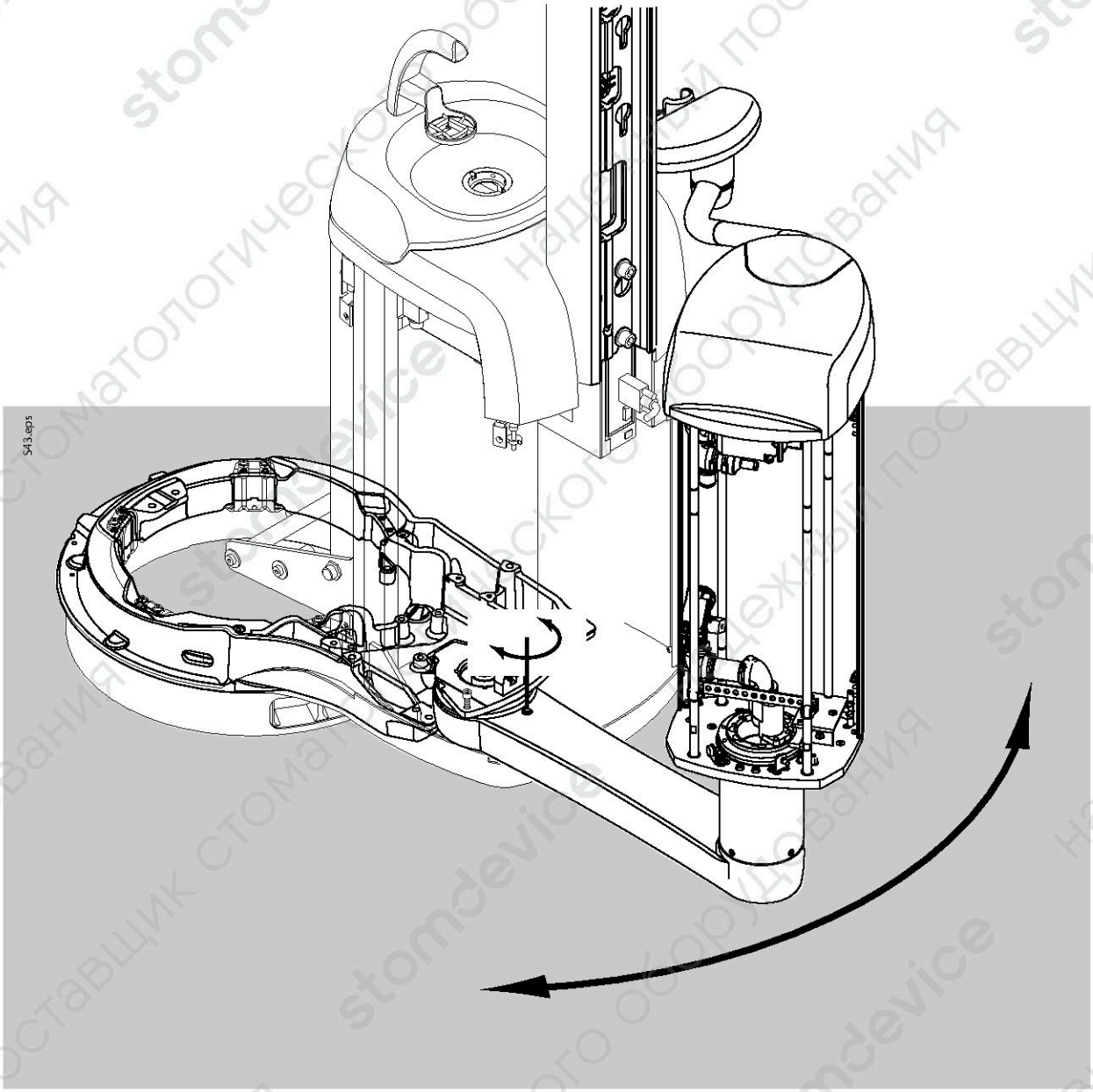
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17.3 Assistant element adjustments

Assistant element arm

Adjust the rotational friction of the assistant element arm with a 3 mm Allen key. Tightening the screw increases the friction.

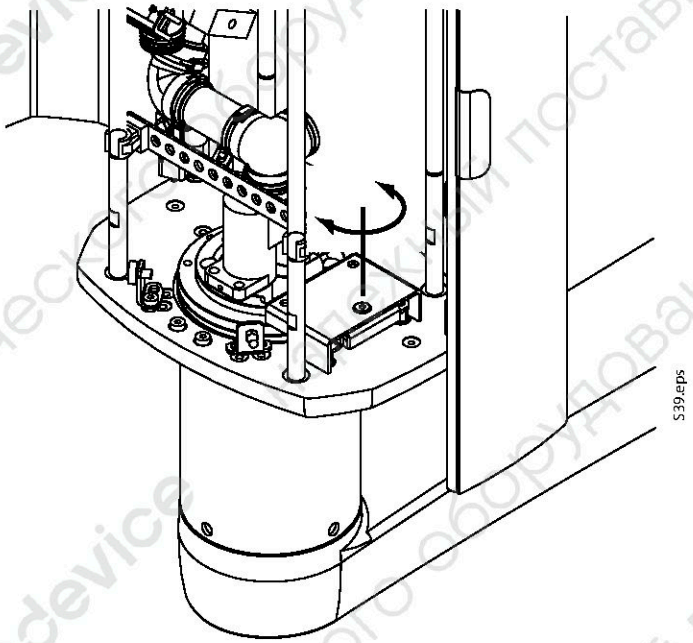


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Assistant element

Adjust the rotational friction of the assistant element with a 3 mm Allen key. Tightening the screw increases the friction.

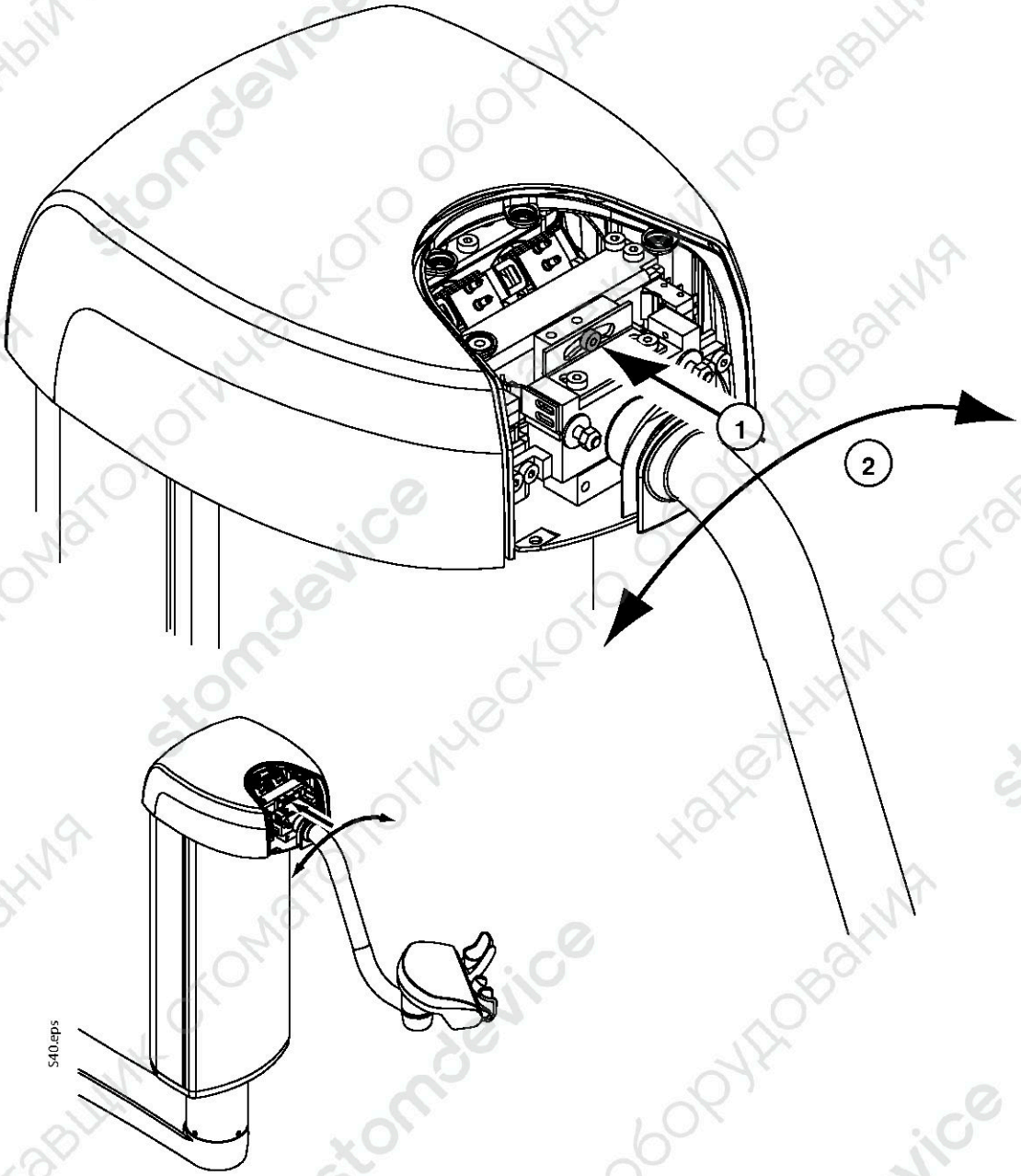


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Suction holder arm

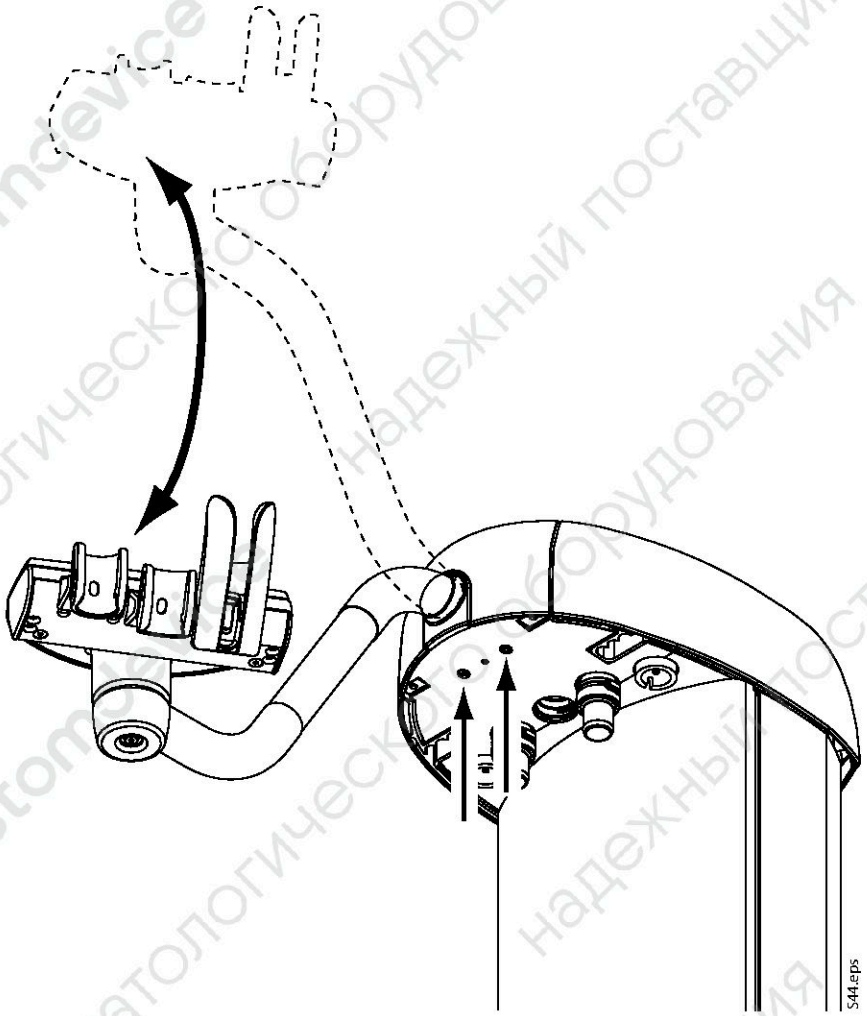
The angle of the suction holder arm can be adjusted so that the suction holder is straight. Loosen the adjustment screw (1) and adjust the arm by rotating it (2). Tighten the screw.



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Adjust the rotational friction of the suction holder arm with a 3 mm Allen key. Note, that there are two screws: one is fully tighten and cannot be rotated and the other is for the friction adjustment.

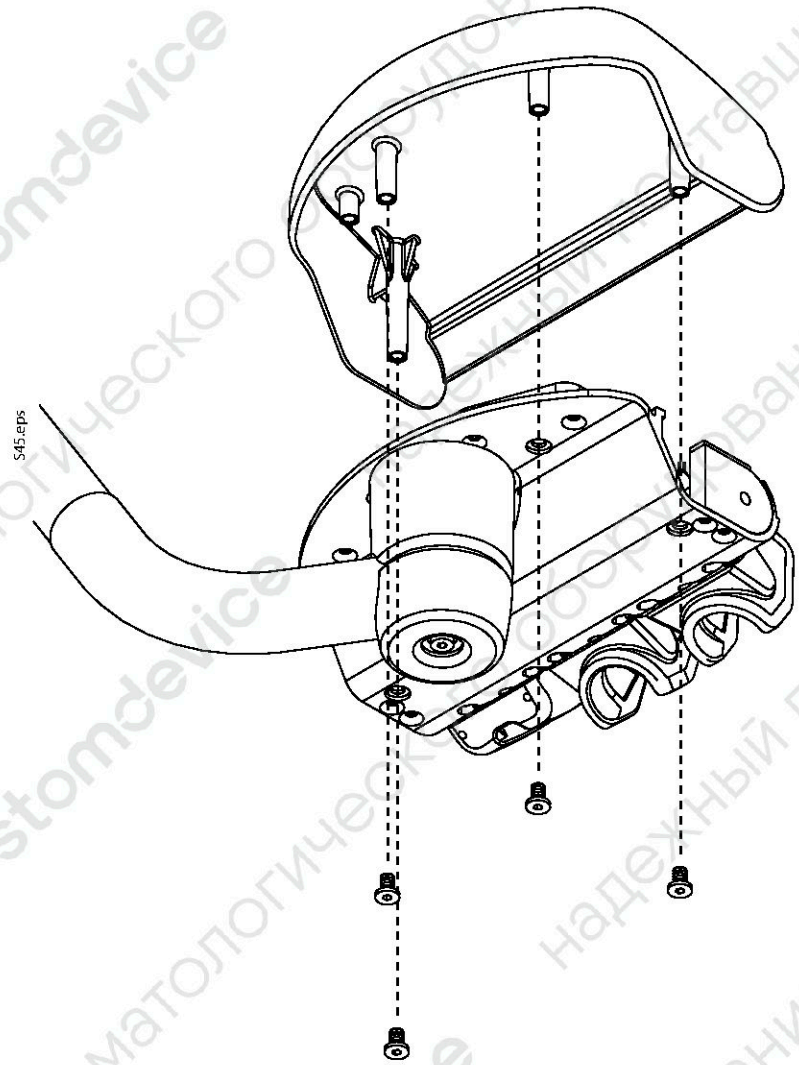


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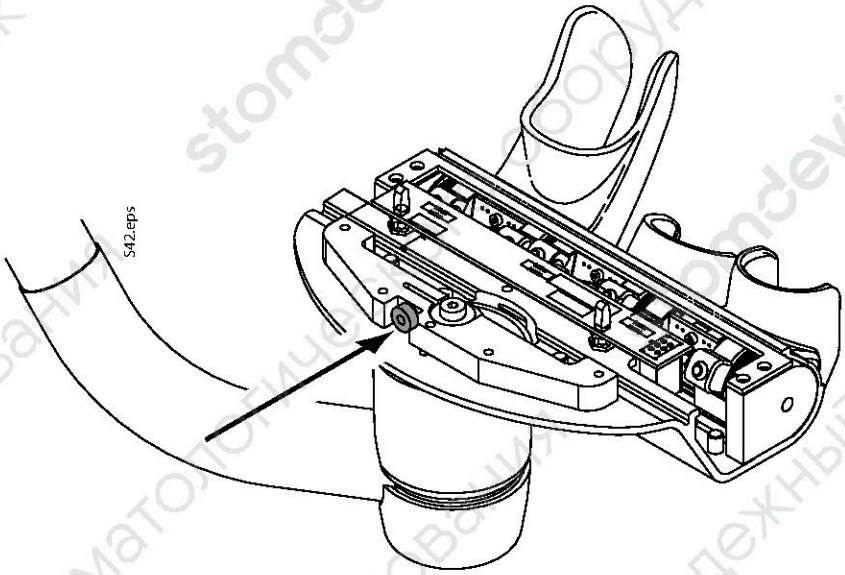
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Suction holder

Unscrew the four attachment screws of the holder cover and remove the cover.



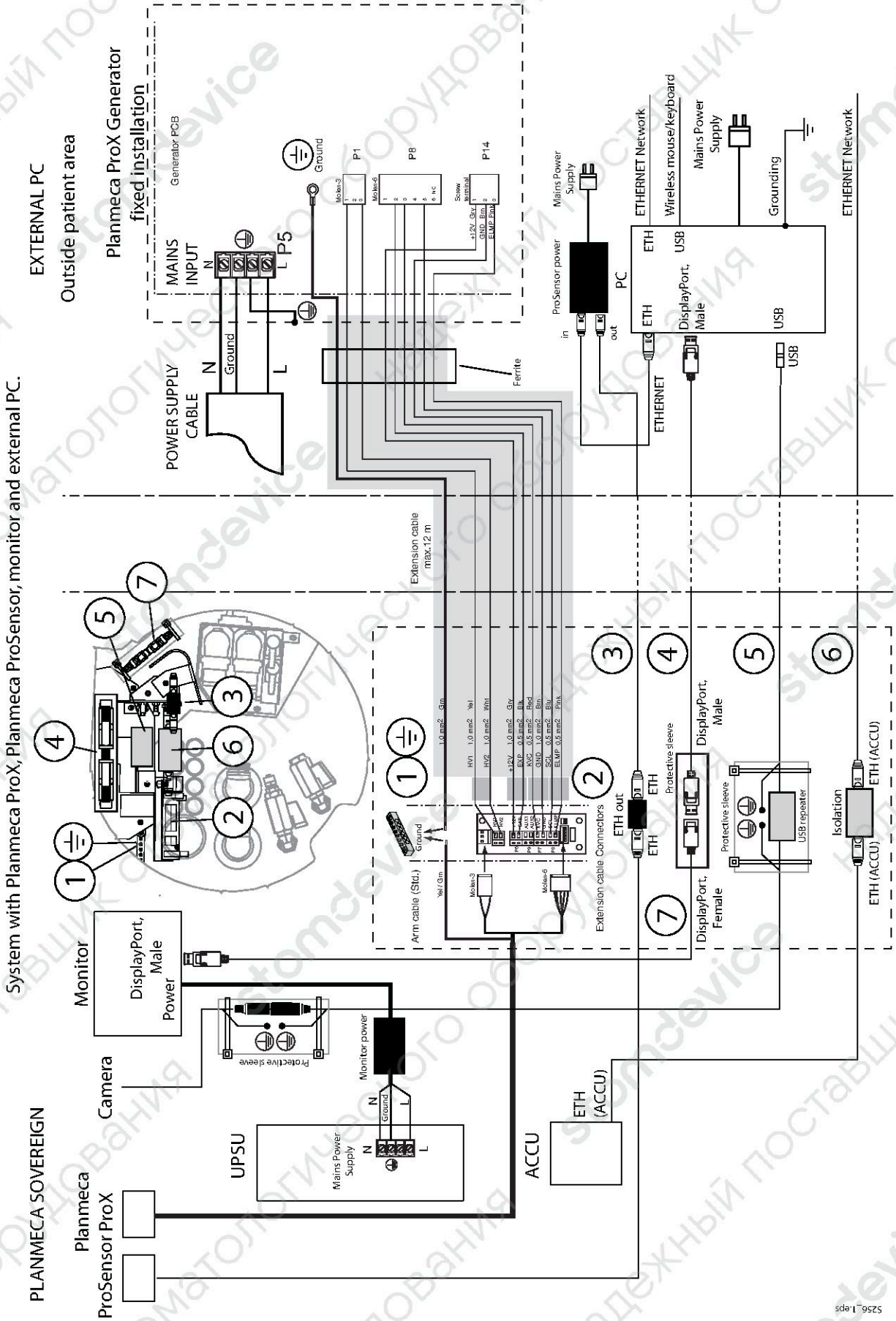
Adjust the rotational friction of the suction holder with the adjustment screw located behind the holder. Tightening the screw increases the friction.



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18 CONNECTIONS



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