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PLANMECA



Planmeca ProOne®

EN

installation manual

10016257_12

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

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

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

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1 INTRODUCTION

This manual contains the information required to install the Planmeca ProOne X-ray unit. Please read this manual carefully before installing the X-ray unit.

NOTE

Required software versions:

- **Planmeca ProOne software version 1.9.0.0.r or later**
- **Planmeca Romexis software version 4.4.1.r or later**
- **Didapi software version 5.5.0.r or later**

2 ASSOCIATED DOCUMENTATION

The X-ray unit is supplied with the following manuals:

- User's Manual, Original English publication: 10016256
- Installation Quick Guide, Original English publication: 10040577
- Installation Manual, Original English publication: 10016257
- Technical Manual, Original English publication: 10016258
- Planmeca Device Tool Manual, Original English publication: 10031558

These manuals are intended to be used in conjunction with the documentation for the Planmeca Romexis program. The program package contains the following manuals:

- User's Manual, Original English publication: 10014593
- Technical Manual, Original English publication: 10037884

NOTE

The User's Manuals are available on Planmeca's website.

- **For X-ray units, select Material bank > Manuals > Imaging**
- **For software products, select Material bank > Manuals > Software**

The other manuals are available on Planmeca's Dealer Support website. This website requires a password.

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3 PRE-INSTALLATION REQUIREMENTS

3.1 Safety precautions



WARNING

DO NOT CONNECT ITEMS WHICH ARE NOT SPECIFIED AS PART OF THE SYSTEM.



WARNING

THE X-RAY UNIT MUST BE CONNECTED TO A DEDICATED, PROTECTIVELY GROUNDED POWER LINE (NO OTHER DEVICES ARE CONNECTED TO THE SAME POWER LINE).



WARNING

DO NOT CONNECT A MULTIPLE PORTABLE SOCKET OUTLET (MPSO) OR EXTENSION CORD TO THE SYSTEM.



WARNING

TURNING OFF THE X-RAY UNIT FROM ITS OWN MAINS SWITCH DOES NOT CUT OFF THE MAINS VOLTAGE FROM THE MAINS TERMINAL.

NOTE

External equipment intended for connection to signal input, signal output or other connectors, shall comply with relevant IEC standard (e.g. IEC 60950 for IT equipment and the IEC 60601 series for medical electrical equipment). In addition, all such combinations - systems - shall comply with the standard IEC 60601-1 Cl. 16.1, Safety requirements for medical electrical systems. Equipment not complying to IEC 60601 shall be kept outside the patient area (more than 2m (79 in.) from the X-ray unit).
Any person who connects external equipment to signal input, signal output or other connectors has formed a system and is therefore responsible for the system to comply with the requirements of IEC 60601-1 Cl. 16.1.
If in doubt, contact your service technician or local representative for help.

NOTE

EMC requirements have to be considered, and the equipment must be installed and put into service according to the specific EMC information provided in the Technical manual, section “EMC INFORMATION”.

NOTE

Portable and mobile RF communications equipment can affect the X-ray unit. For minimum distance between portable and mobile RF communications equipment and the X-ray unit, see Technical manual, section “EMC INFORMATION”.

NOTE

FOR PERMANENTLY INSTALLED X-RAY UNITS
The X-ray unit can be disconnected from the mains power supply by turning the external mains switch to the off position.

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NOTE

FOR X-RAY UNITS WITH DETACHABLE POWER SUPPLY CORD
The X-ray unit can be disconnected from the mains power supply by unplugging the power cable.

NOTE

Never place or hang any objects on any part of the X-ray unit.

NOTE

Make sure that you cannot get caught or hooked up on any part of the X-ray unit. Keep loose items of clothing, hair and jewellery tucked away safely.

3.2 Environmental requirements

Transport

- Temperature -20°C - +60°C (-4°F - +140°F)
- Relative humidity 10 - 90% RH (non-condensing)
- Air pressure 700 - 1060 hPa

Storage

- Temperature -10°C - +50°C (+14°F - +122°F)
- Relative humidity 10 - 90% RH (non-condensing)
- Air pressure 700 - 1060 hPa

Operating

- Temperature +10°C - +40°C (+50°F - +104°F)
- Relative humidity 10 - 90% RH (non-condensing)
- Air pressure 800 - 1060 hPa
- Max. altitude 2000 m (1.25 miles)

NOTE

If the X-ray unit has been stored at temperatures below +10°C (+50°F) for more than a few hours, time must be allowed for the unit to reach room temperature before connecting it to the mains voltage.

3.3 Radiation protection

The room in which the X-ray unit is to be installed and the position from where the user is to operate the equipment must be correctly shielded from radiation. Since radiation safety requirements vary from country to country and state to state it is the responsibility of the installer to ensure that all safety regulations are met.



WARNING

FAILURE TO INSTALL THE X-RAY UNIT IN AN APPROVED LOCATION MAY BE DANGEROUS TO BOTH PATIENT AND OPERATOR.

Protect yourself from radiation when you check the radiation beam alignment.

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3.4 Wall strength

The X-ray unit must be attached to the wall prior use. Make sure that the wall will support the X-ray unit. The wall bracket installation must be able to resist a pull-out force of 2759 N (276 kg, 608 lb).

3.5 Electrical requirements

3.5.1 Mains voltage and frequency

Make sure that the power requirements of the X-ray unit are the same as the power that is to be used. The X-ray unit is designed to operate using 100-240V~ universal power supply. The power requirements are printed on the label located on the back of the moving column. If the voltage is likely to fluctuate below 90V or over 264V you will need to install a UPS (Uninterruptible Power Supply) for the X-ray unit and PC to ensure correct operation. The mains frequency can be either 50 or 60 Hz.

CAUTION

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

3.5.2 External mains switch (for permanently installed X-ray units only)

The mains voltage supply for the X-ray unit shall be equipped with a permanently installed mains switch according to the standard IEC 61058-1 (2000 + A1:2001 + A2:2007). The external mains switch must comply with the isolation distance requirements for 4 kV. The switch shall disconnect the mains power supply from both the live and neutral lines. It must be possible to lock the switch in the off position.

3.5.3 Grounding (for permanently installed X-ray units only)

In order to fulfill the safety directives, the X-ray unit must be connected to ground in the junction box.

3.6 Digital system requirements

The digital system consists of a Planmeca ProOne X-ray unit, Ethernet card, one or more PCs and an imaging software (Romexis) package.

The PC(s) connected to the system must be:

- approved by local authorities: e.g. IEC approved (CE marked), UL / CSA approved
- located outside the patient area (more than 2m (79 in.) from the X-ray unit)
- protectively grounded

To check the latest recommendations for the 2D digital system, go to:

http://www.planmeca.com/System-requirements

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3.7 Network architecture requirements

- The minimum requirement for the Ethernet cable is Category 6 (Cat 6). All cables delivered with the X-ray unit are Cat 6 cables.
- The Romexis PC hardware is not included in the X-ray unit delivery.
- Each image acquisition workstation (Romexis PC) in the network has to have a unique IP address.
- If the X-ray unit and Romexis PC(s) have to be connected to a common network, the network must be protected by a firewall.
- If a Romexis PC has to be connected to a common network, a second network card must be used.
- Connecting the X-ray system to a network that contains other devices, or making any changes to this network, could result in previously unidentified risks to patients, operators or third parties. These risks must be identified, analysed, evaluated and controlled by the responsible organisation.

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3.8 Space requirements

The following table lists the space requirements for the Planmeca ProOne X-ray unit.

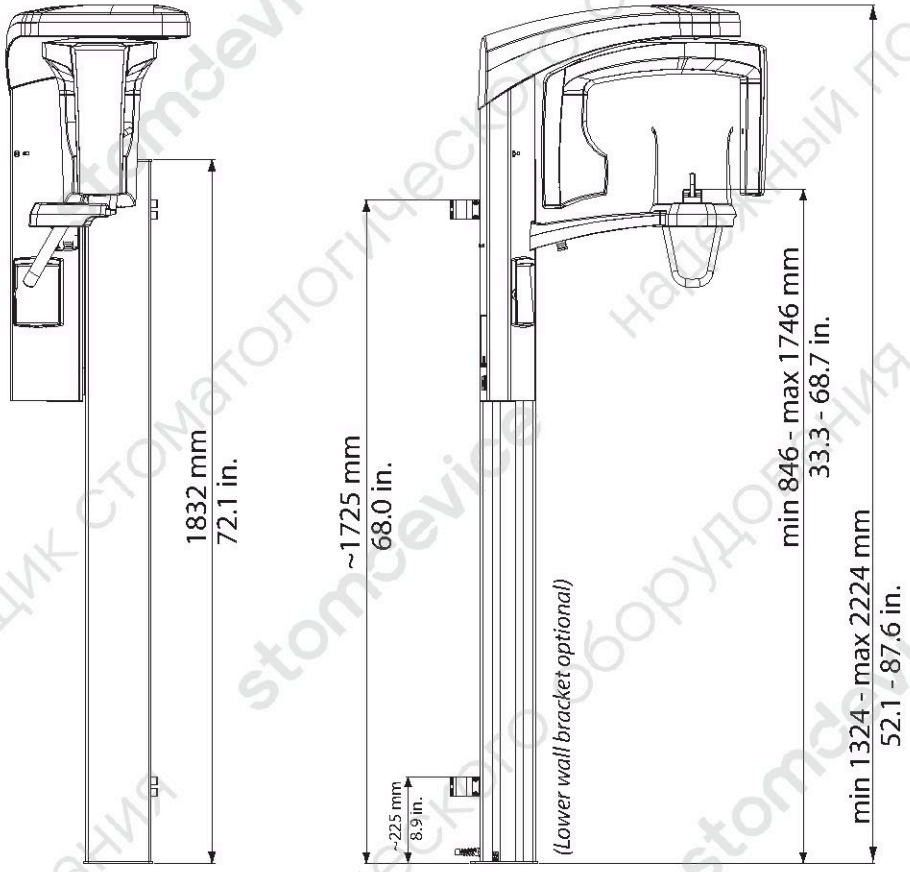
Unit dimensions	• 969 (W) x 1030* (D) x 2224 (H) mm • 38.1 (W) x 40.6 * (D) x 87.6 (H) in.
Minimum required space	• 1470 (W) x 1330* (D) x 2250 (H) mm • 57.9 (W) x 52.4* (D) x 89 (H) in.

* + 10 mm (0.4 in.) with optional extension plate

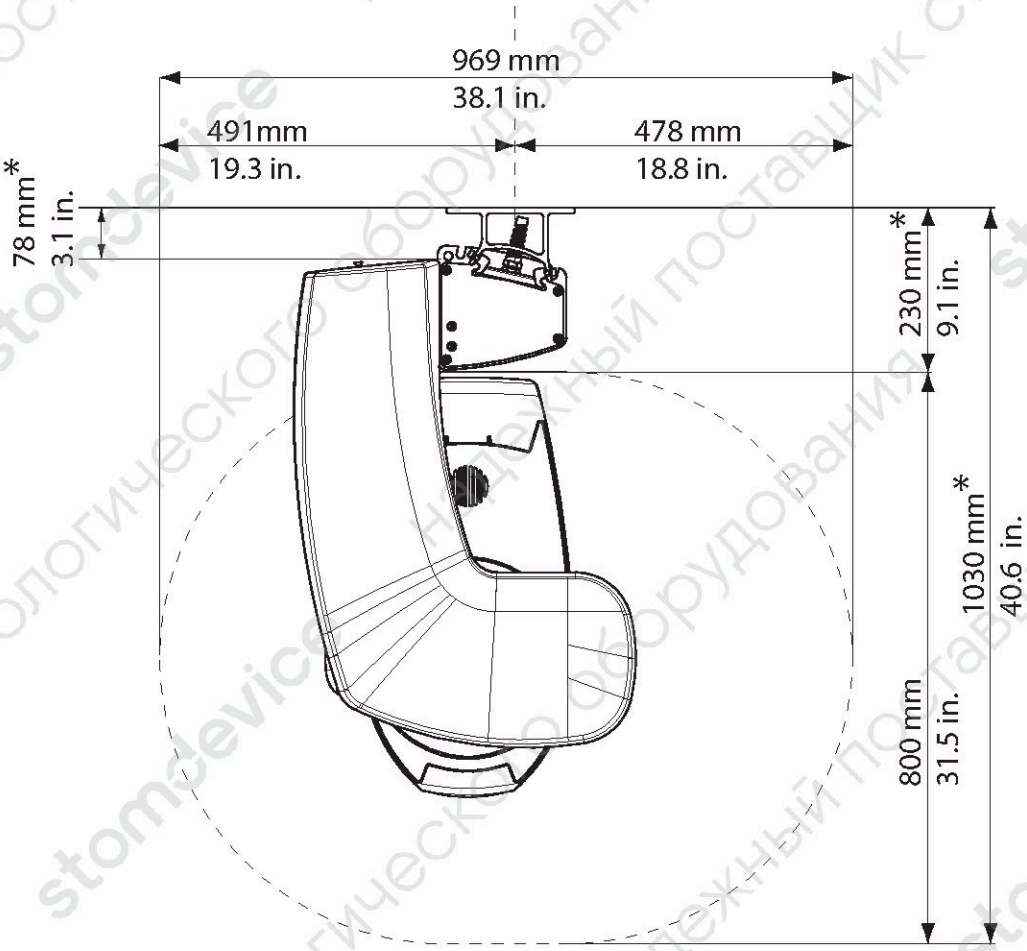
The following sections describe the unit dimensions and minimum space requirements in more detail.

3.8.1 Unit dimensions

The following figures give the **nominal, physical measurements** of the X-ray unit for installation and movement. The X-ray unit must be installed in a location where the user can freely monitor the patient during the whole imaging process. For more information on the **operating space requirements**, see section 3.8.2 "Minimum required space" on page 10.



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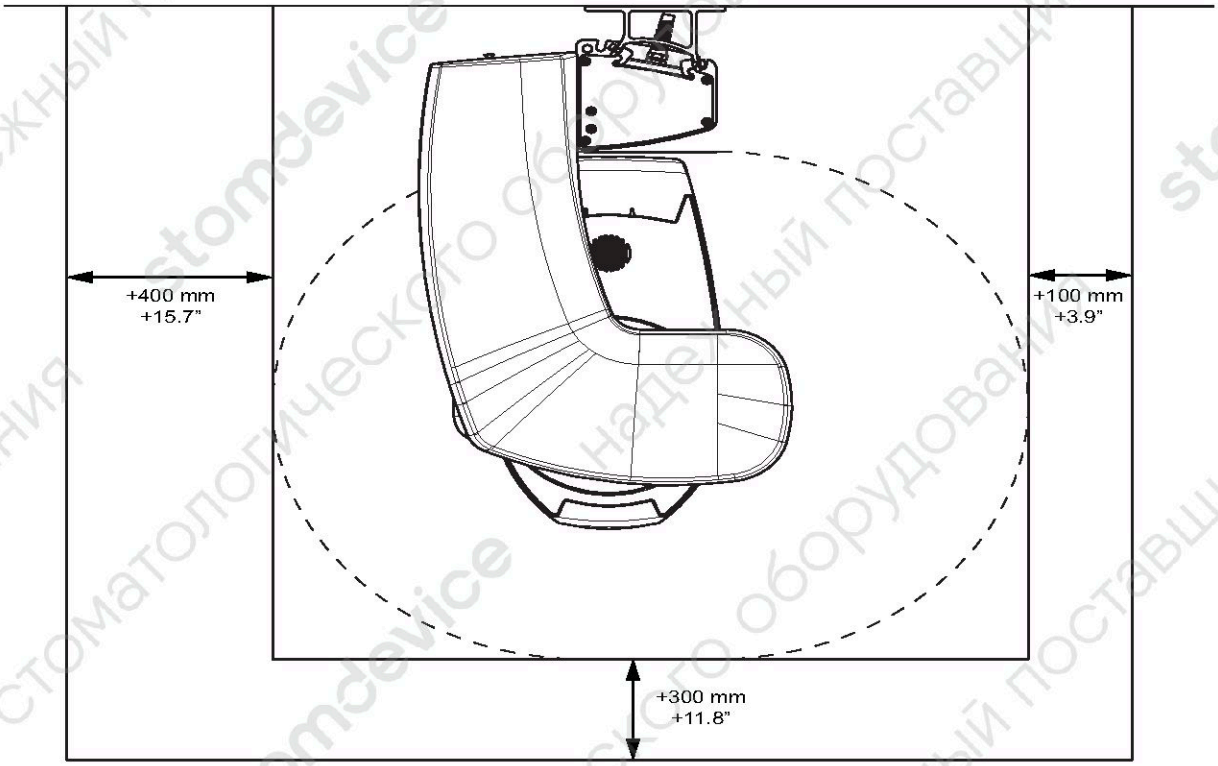
* = + 10 mm (0.4 in.) with optional extension plate

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3.8.2 Minimum required space

The following figure shows the **recommended practical operational space** requirements for the Planmeca ProOne X-ray unit.



* Distance from wall (depth) includes additional + 10 mm (0.4 in.) extension plate measured in nominal physical measurements

NOTE

The distances marked are distance added to the nominal installation and movement space requirements marked on the previous page.

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3.9 Dimensions for wall bracket and optional extension plate

Figure 1: Wall bracket

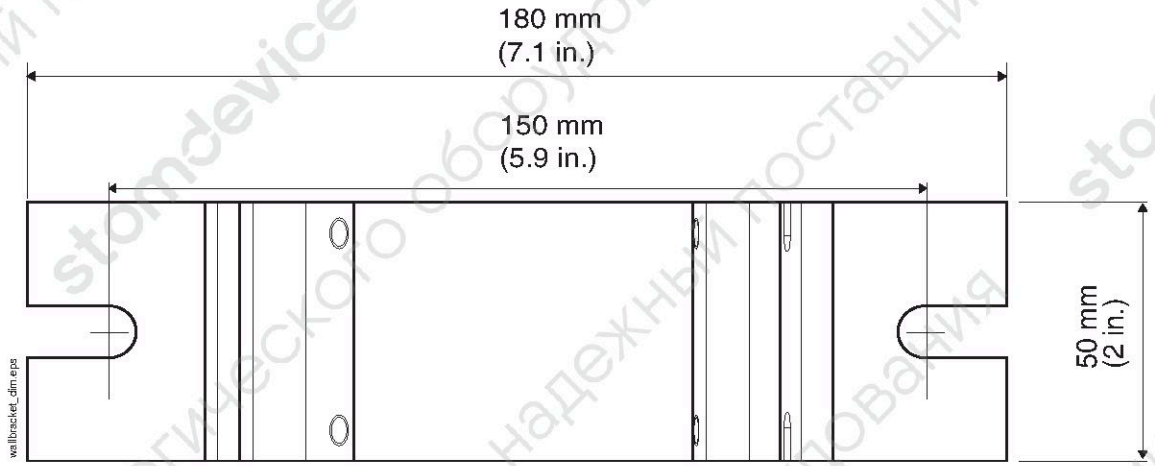
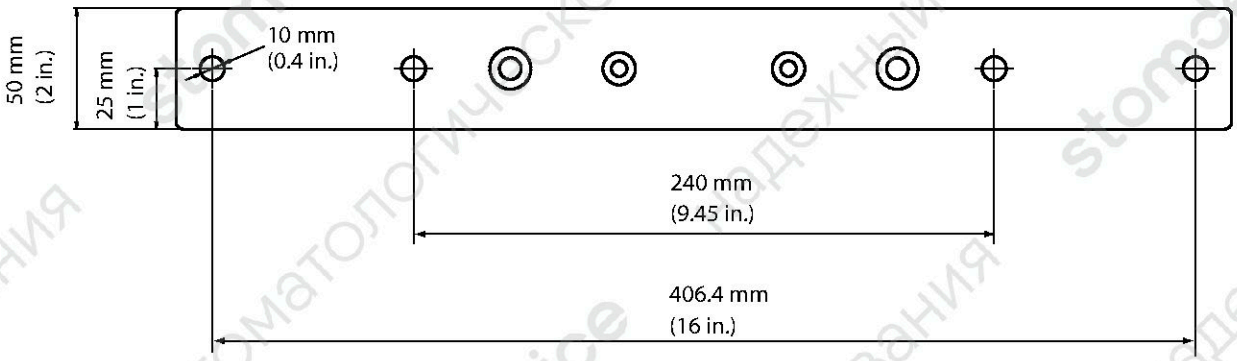


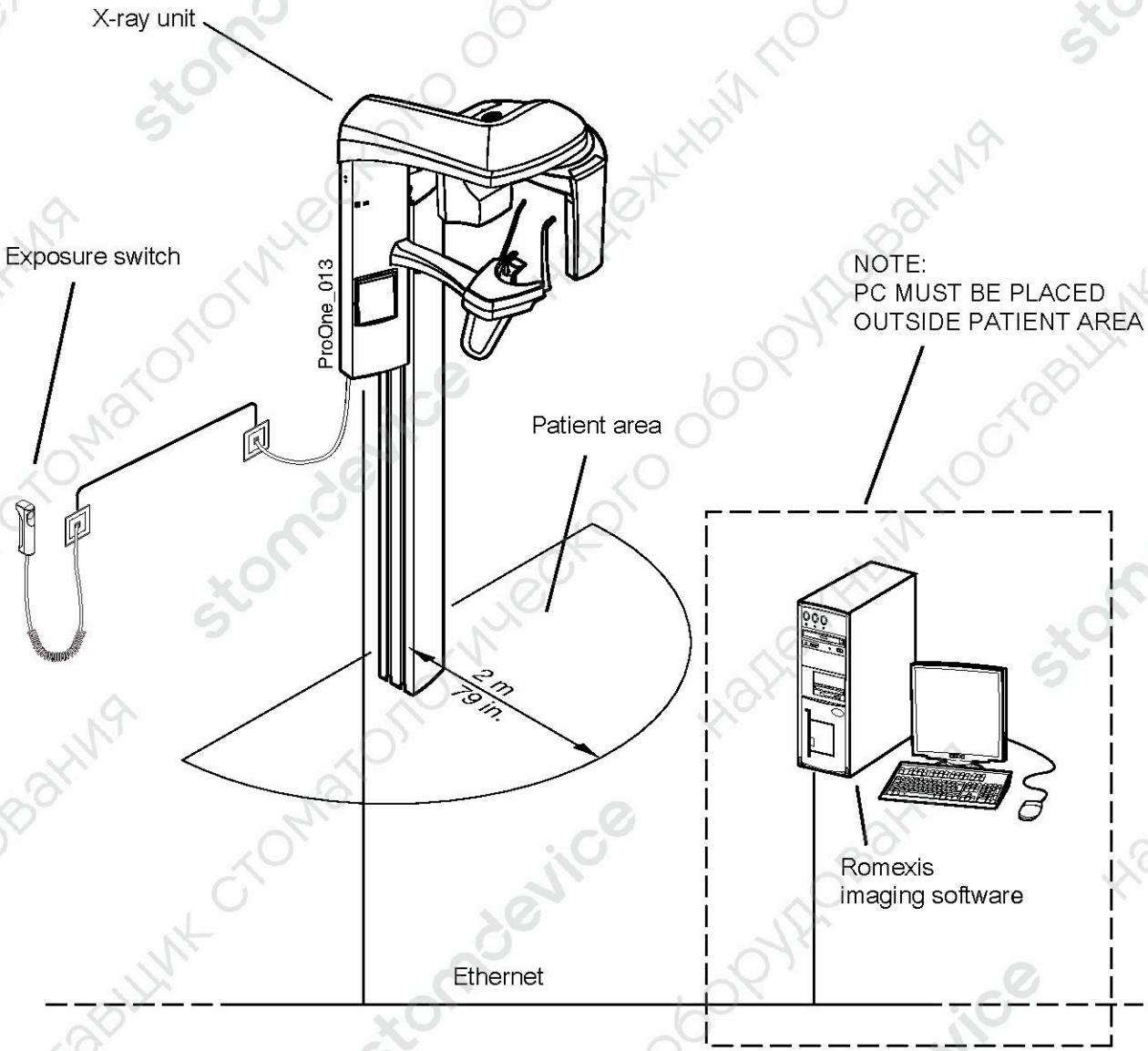
Figure 2: Extension plate for wall bracket (optional)



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4 MAIN PARTS

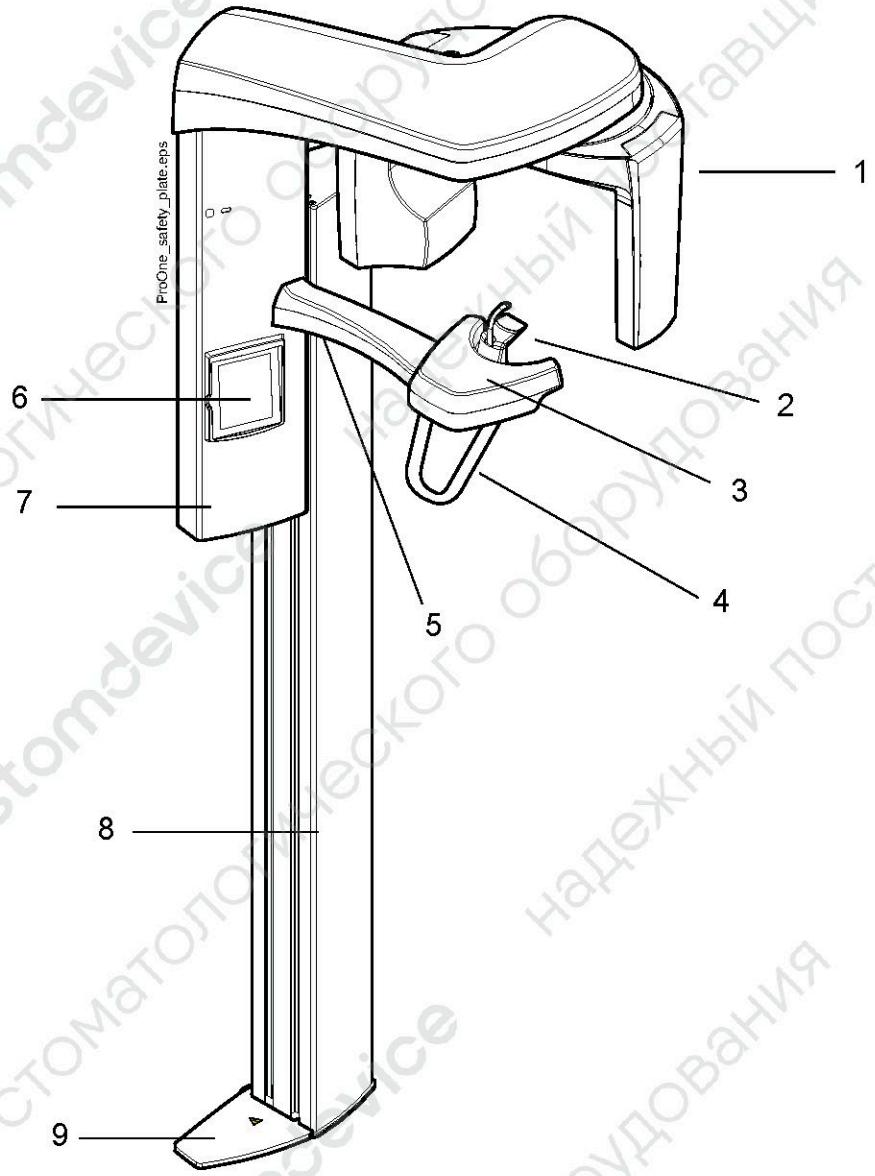
4.1 General view of the system



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4.2 General view of the X-ray unit

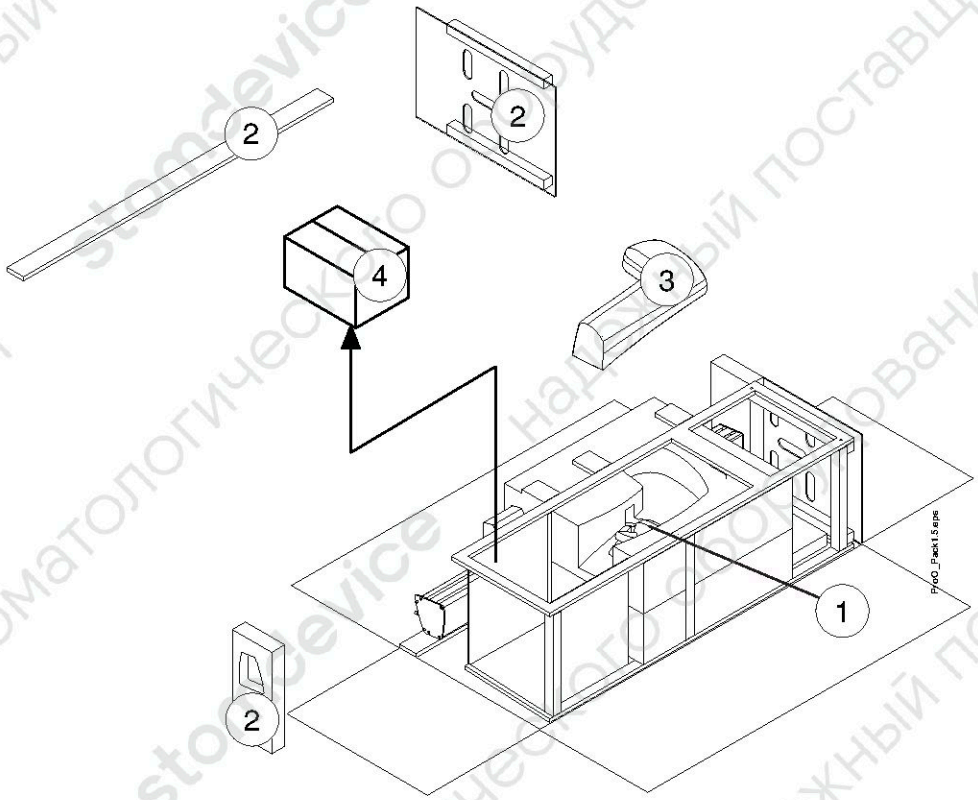


1 C-arm
2 Patient supports
3 Patient support table
4 Patient handles
5 Emergency stop button
6 Control panel
7 Moving column
8 Stationary column
9 Safety plate

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5 CONTENTS OF THE PACKING



1 Planmeca ProOne X-ray unit
2 Package protective parts
3 Upper arm cover
4 Accessories carton

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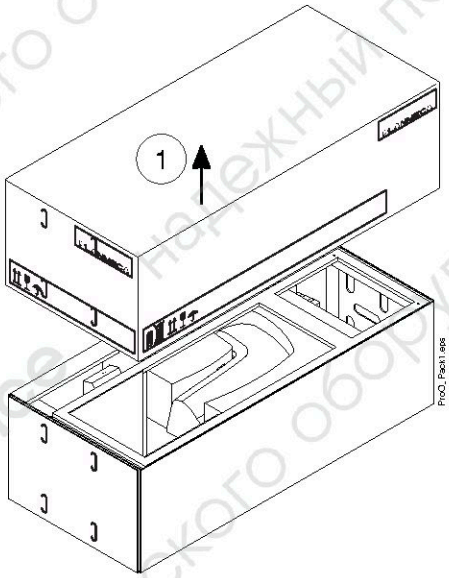
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6 UNPACKING THE X-RAY UNIT

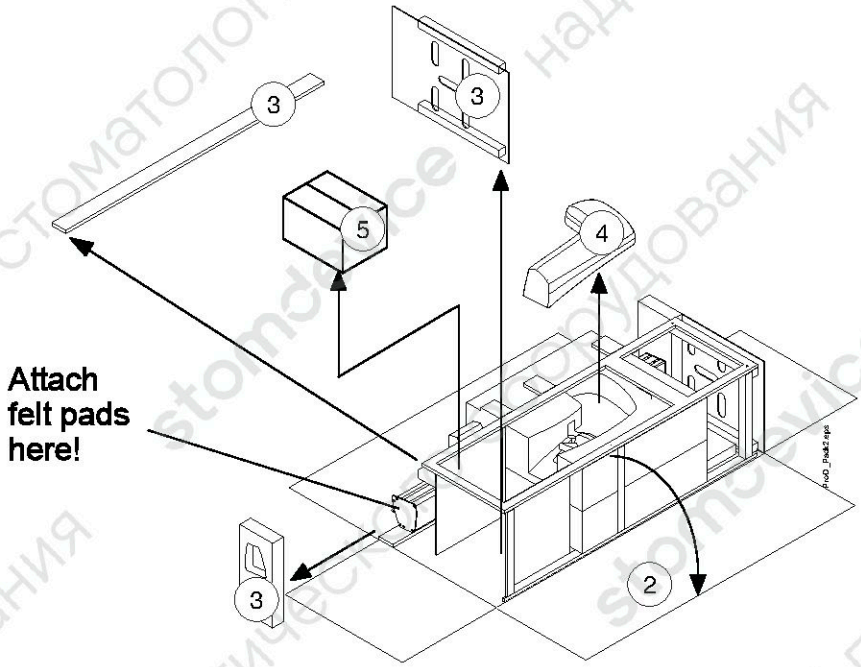
NOTE

The edges of the cardboard box may be sharp. Use gloves when handling the cardboard box.

1. Lift up the upper part of the package (1).



2. Fold down the side flaps (2) and remove the protective parts (3), upper arm cover (4) and accessories carton (5).



NOTE

Do not remove the support frame until the X-ray unit has been attached to the wall.

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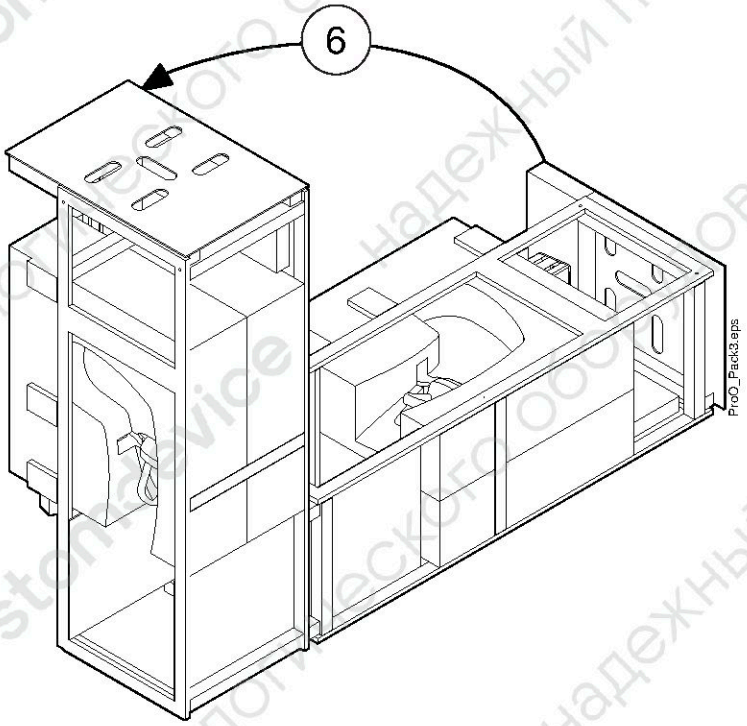
NOTE

Attach felt pads (included in the delivery) to the underside of the column base plate before you lift up the X-ray unit.

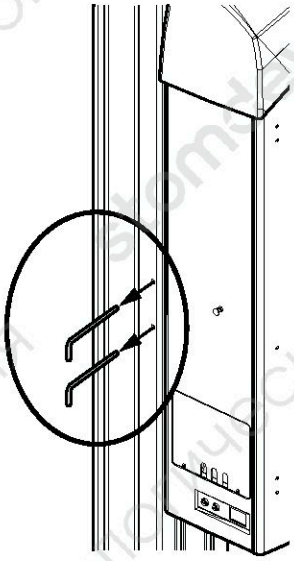
3. Lift up the X-ray unit and the support frame (6).

NOTE

Never lift the X-ray unit from the patient handles.



4. Remove the two transport locking pins from the back of the X-ray unit.



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7 INSTALLING THE X-RAY UNIT

NOTE

The X-ray unit must be installed in a location where the user can freely monitor the patient during the whole imaging process. For minimum operational space requirements, see section 3.8 "Space requirements" on page 8.

7.1 Attaching the X-ray unit to the wall

NOTE

The wall bracket installation must be able to resist a pull-out force of 2759 N (276 kg, 608 lb).

NOTE

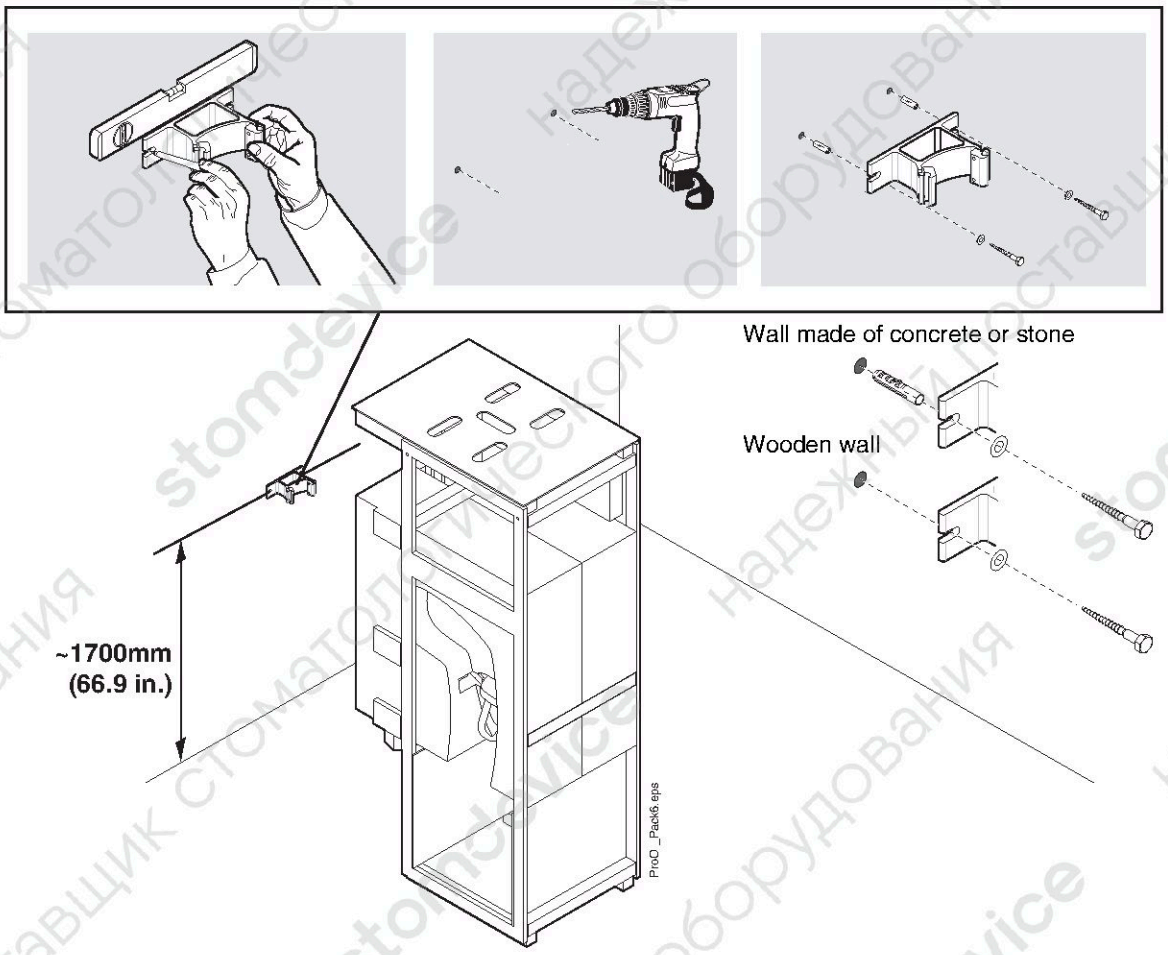
For dimensions of the wall bracket and the optional extension plate, see section 3.9 "Dimensions for wall bracket and optional extension plate" on page 11. For installation drawing, see section 11 "DIAGRAMS" on page 37.

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1. Use the wall bracket to mark the positions of the mounting screws. The wall bracket must be secured to the wall with two mounting screws. Position the wall bracket approximately 1700 mm (66.9 in.) from the floor. Use a spirit level to ensure that the wall bracket is level.
   - If the wall is made of concrete or brick, use the 10x70 DIN 571 lag screws and the 14x70 expansion anchors to secure the wall bracket / extension plate in position. Drill two securing holes (ø14mm (0.55 in.), 85 mm (3.3 in.) in depth) and insert the expansion anchors into the holes.
   - If the wall is made of wood, use the 10x70 DIN 571 lag screws. Do not use expansion anchors with wooden wall. Drill two securing holes (ø7 mm (0.3 in.), 70…75 mm (2.75...3 in.) in depth) for the mounting screws.

   If needed, place protective caps (included in the delivery) on the lag screws.

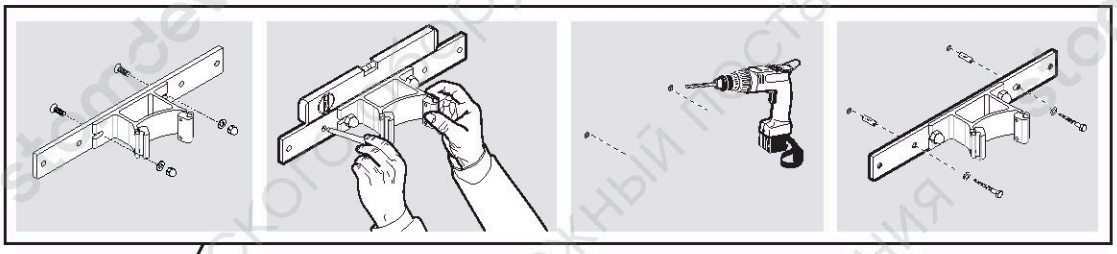


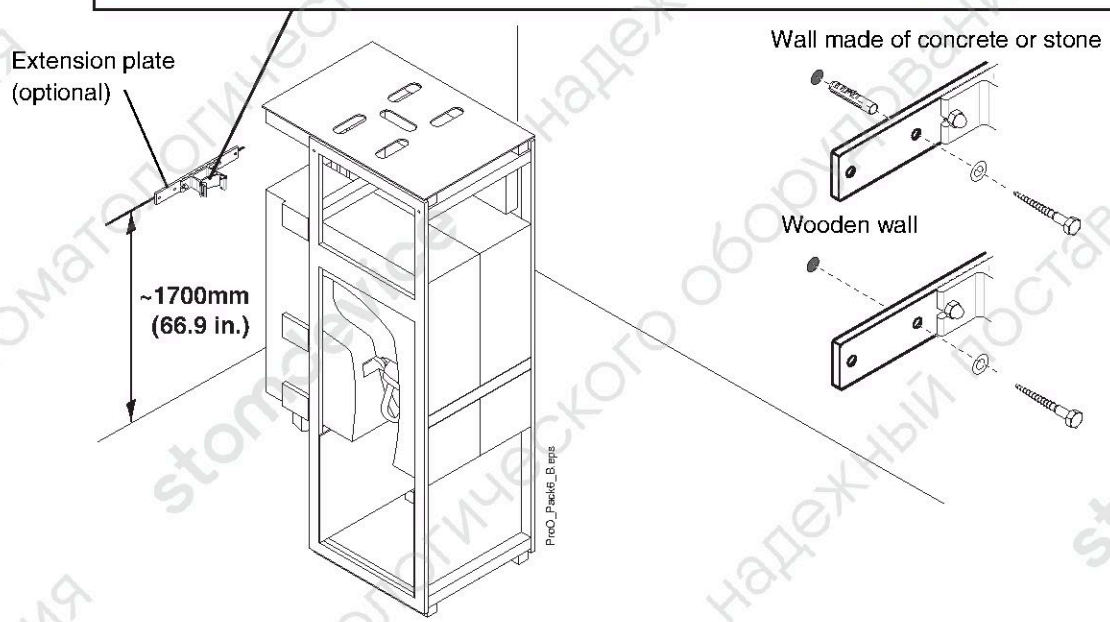
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NOTE

When using the optional extension plate, first attach the wall bracket to the extension plate by tightening the nuts on both sides of the wall bracket. Then use the extension plate to mark the position of the two mounting screws.
If needed, use cover plugs (included in the delivery) to close unneeded holes in the extension plate.



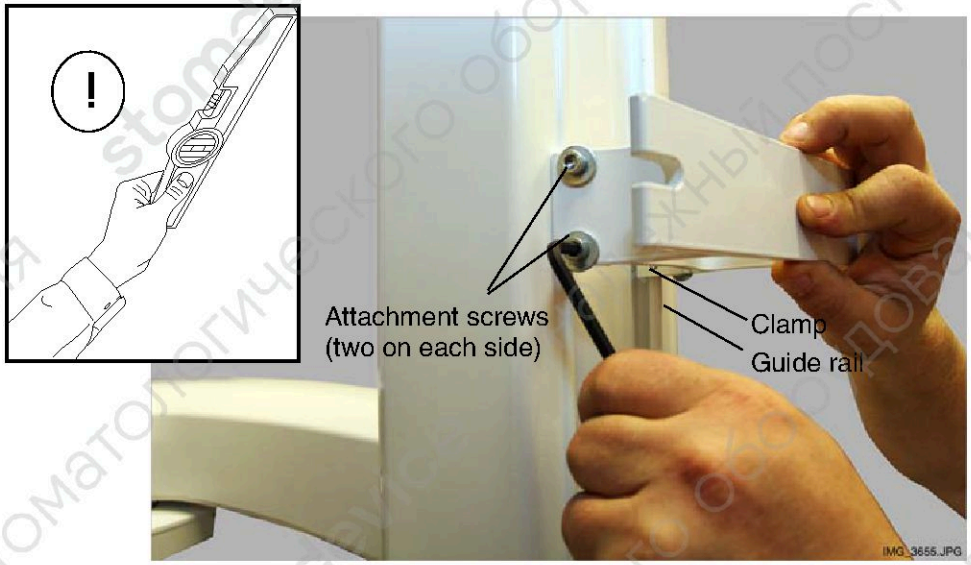


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2. Carefully move the X-ray unit against the wall bracket. Attach the wall bracket to the X-ray unit column by tightening the four attachment screws (two on each side). The wall bracket clamps must press firmly against the guide rails inside the column.

NOTE

Use a spirit level to ensure that the column is vertical.



(view as seen from the side of the wall)

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7.2 Attaching the X-ray unit to the floor

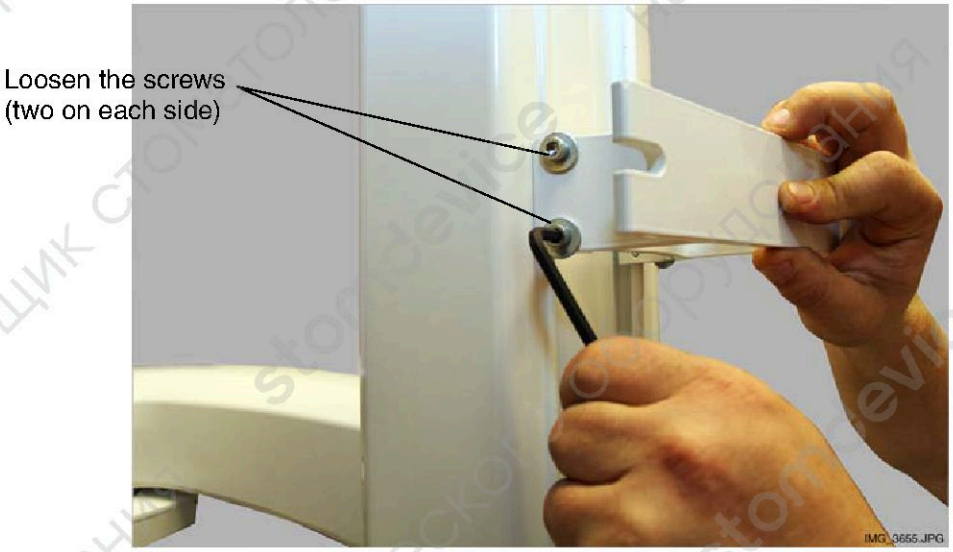
NOTE

The X-ray unit must be attached to the wall with at least one wall bracket. If only one wall bracket is used, the X-ray unit must be attached to the floor as well. If the X-ray unit is not attached to the floor, a second wall bracket must be used. For location of the second wall bracket, see installation drawing in section 11 "DIAGRAMS" on page 37.

1. Mark the position of the two mounting screws on the floor.



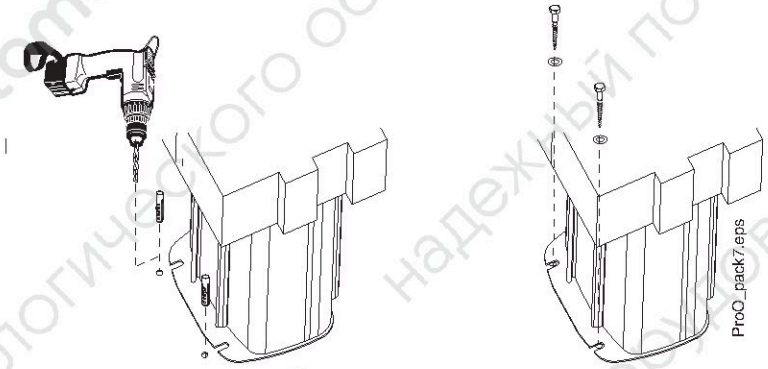
2. Loosen the four wall bracket attachment screws and carefully pull the X-ray unit away from the wall so that you can drill the floor holes.



(view as seen from the side of the wall)

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3. Drill two securing holes and insert the mounting screws into the holes.
   - If the floor is made of concrete or brick, use the 8x50 DIN 571 lag screws and 10x50 expansion anchors. Drill two securing holes (ø10 mm (0.4 in.), 45...50 mm (1.9 in.) in depth) and insert the expansion anchors into the holes.
   - If the floor is made of wood, use the 8x50 DIN 571 lag screws. Do not use expansion anchors with wooden floor. Drill two securing holes (ø5 mm (0.2 in.), 45…50 mm (1.9 in.) in depth) for the mounting screws.



Floor made of concrete or stone

4. Tighten the screws a couple of turns.



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5. Carefully push the X-ray unit back against the wall.

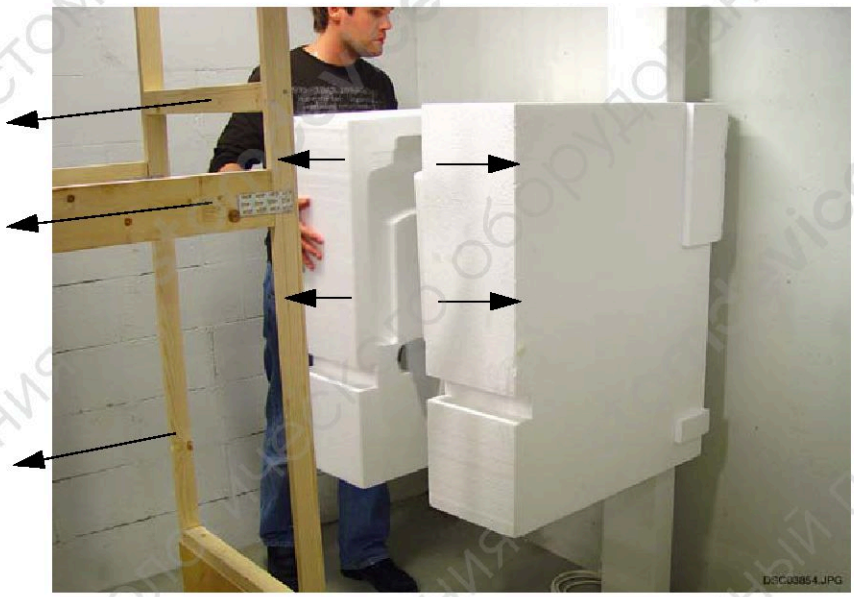


6. Secure the X-ray unit in position by tightening the four wall bracket attachment screws and the two floor mounting screws to full tightness.

NOTE

Use a spirit level to ensure that the column is vertical.

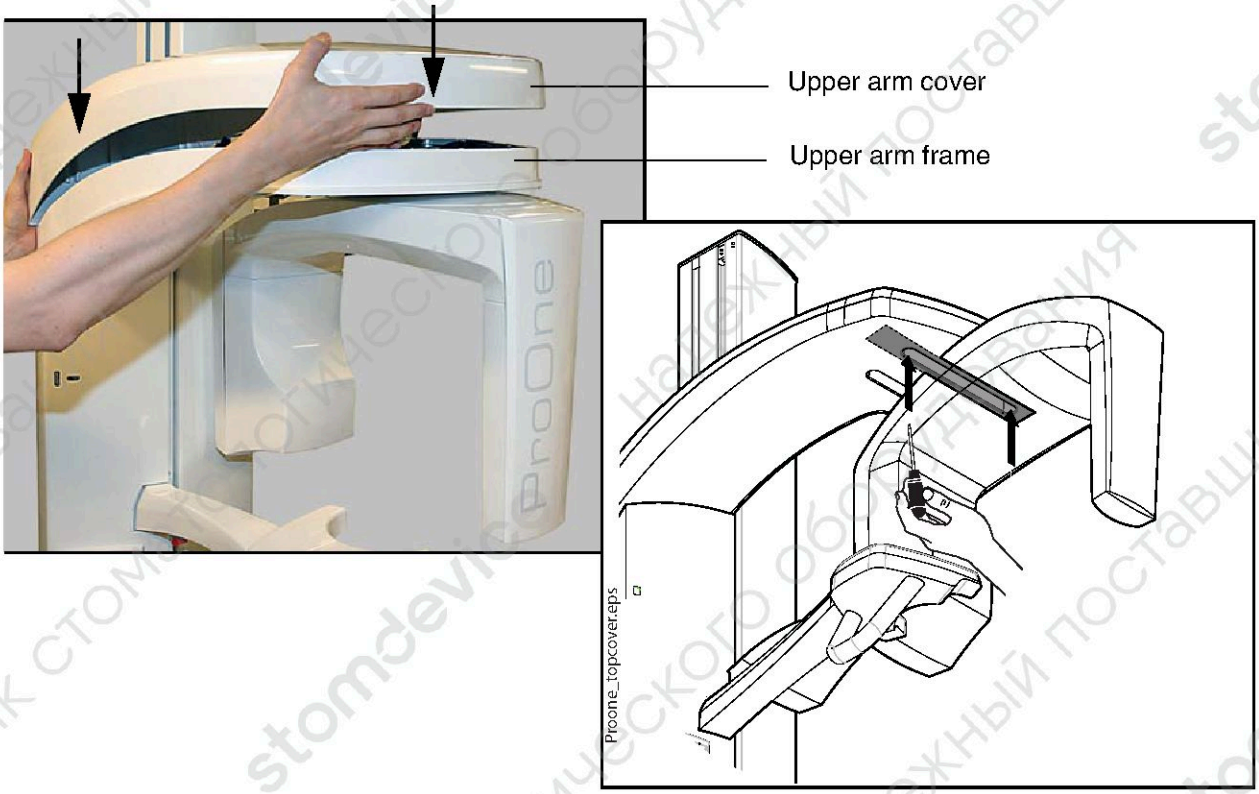
7. Remove the wooden support frame and the styrofoam packaging.



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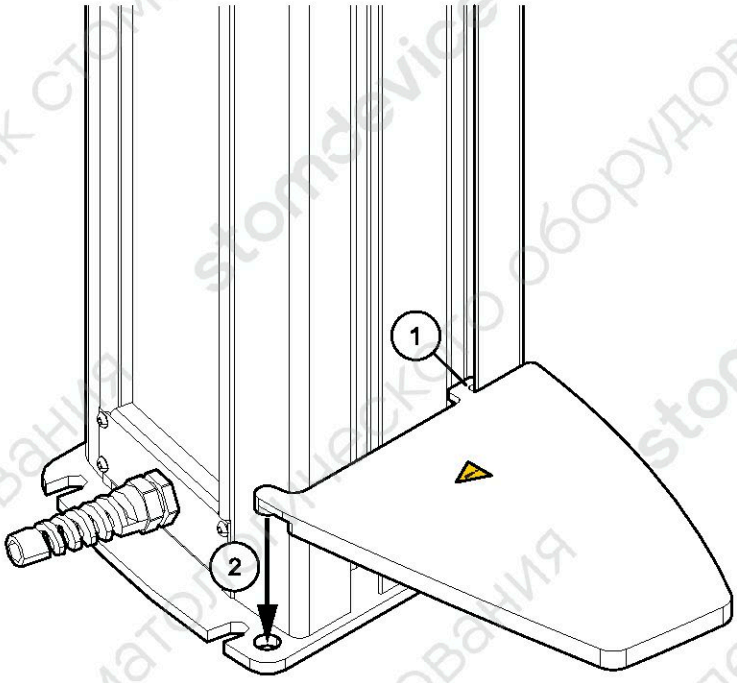
7.3 Attaching the upper arm cover

Place the upper arm cover in position. Use the two M4x6 DIN 7984 fastening screws to secure the cover to the frame as shown. Fasten one screw, then manually slide the C-arm to the other side so that you can fasten the other screw.



7.4 Attaching the safety plate

Place the safety plate in position.



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7.5 Connecting the power cable

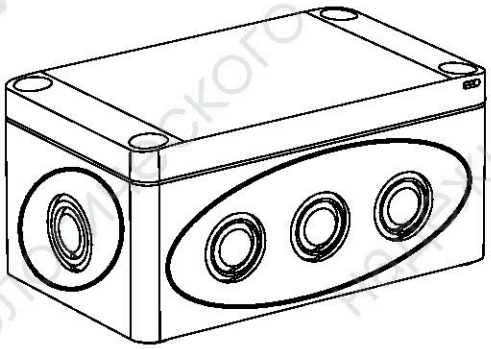
7.5.1 Permanently installed X-ray units (power cable without plug)



WARNING

Ensure that the wires in the wall opening are not connected to live voltage.

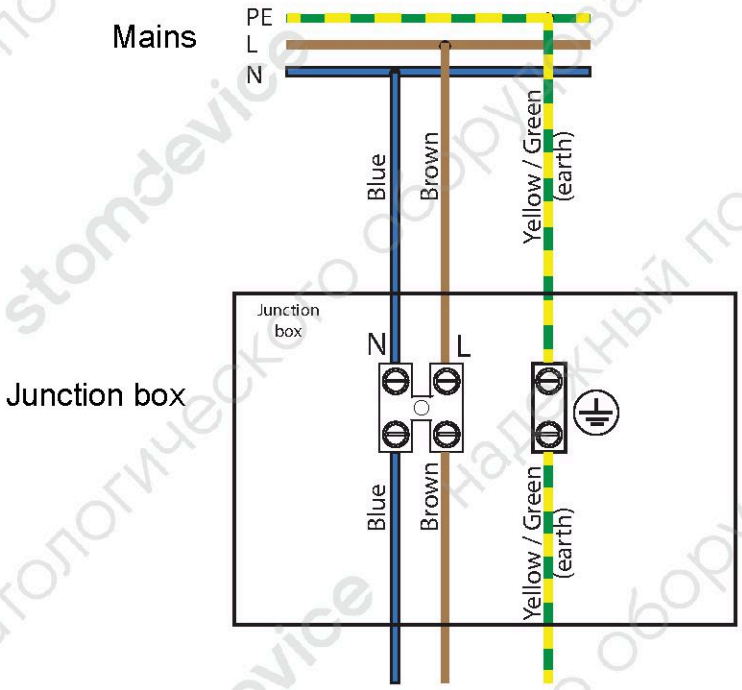
1. Remove a knockout in the junction box.



2. Attach the strain relief to the power cable.
3. If needed, shorten the length of the power cable.
4. Route the wires of the power cable into the junction box.
5. Attach the junction box to the wall according to the local regulations.

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6. Connect the wires of the power cable as shown below.



X-ray unit power cable

7. Attach the strain relief to the junction box.



8. Attach the cover plate to the junction box.

NOTE

If you need to connect an existing power cable directly to the X-ray unit, refer to the wiring diagram for an existing permanently installed power cable in section 11 "DIAGRAMS" on page 37.

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7.5.2 X-ray units with detachable power supply cord (power cable with plug)



Connect the plug to a wall socket with a suitable voltage rating.

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8 INSTALLING THE EXPOSURE SWITCH

NOTE

The exposure switch must be located in a position that satisfies the local radiation safety regulations with regards to operator safety and shielding of X-ray equipment. The exposure switch can be mounted on the wall, or it can be hung from the hook located on the back of the moving column if a protected area is within reach.

NOTE

The wiring options for a remote installation (European and US versions) are shown in section 11 "DIAGRAMS" on page 37.

CAUTION

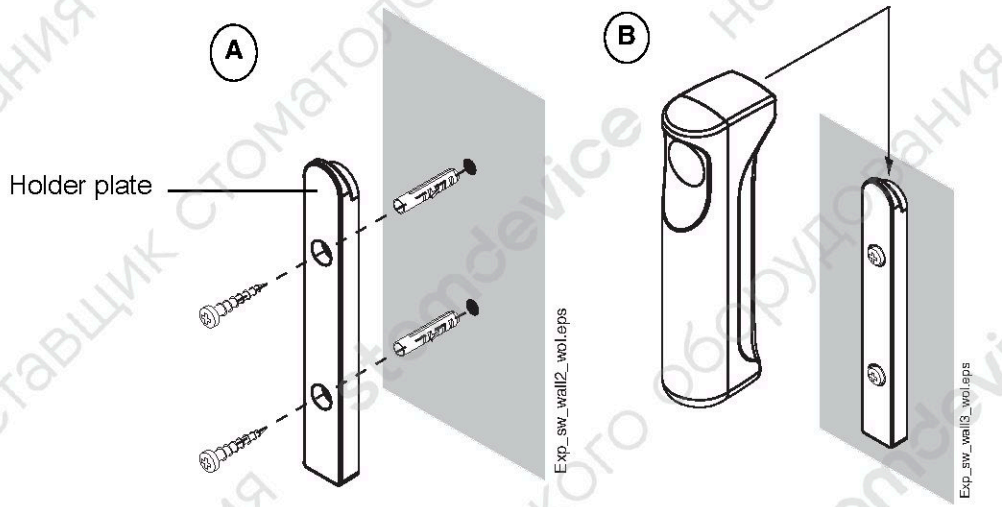
Only the Planmeca cross connection spiral cable (Planmeca part no. 10001193) can be used between the ProOne X-ray unit and the exposure switch. This cable can be lengthened with an RJ12 Coupler and a Modular extension cable (6wire with 2xRJ12).

8.1 Movable exposure switch

Use the holder plate to mark the position of the exposure switch.

- If the wall is made of concrete or brick, use the 4x30 screws and the 6x30 expansion anchors. Drill ø6mm (0.23 in.), 20 mm (0.8 in.) in depth, securing holes and place the expansion anchors onto the holes.
- If the wall is made of wood, use the 4x30 screws. Do not use the expansion anchors with wooden wall. Drill ø3 mm (0.11 in.), 20 mm (0.8 in.) in depth, holes for the attachment screws.

Attach the holder plate to the wall with the two attachment screws. The exposure switch can then be positioned on the holder plate.



Connect the exposure switch cable to the terminal on the back of the moving column. To do this, you will first have to remove the cover that protects the terminals. Remove the protective cover by unscrewing the two screws at the bottom and then unlatching the cover at the top.

First attach a ferrite bead (included in the delivery) to the exposure switch cable. Then connect the exposure switch cable to either of the two terminals in the middle (marked EXP).

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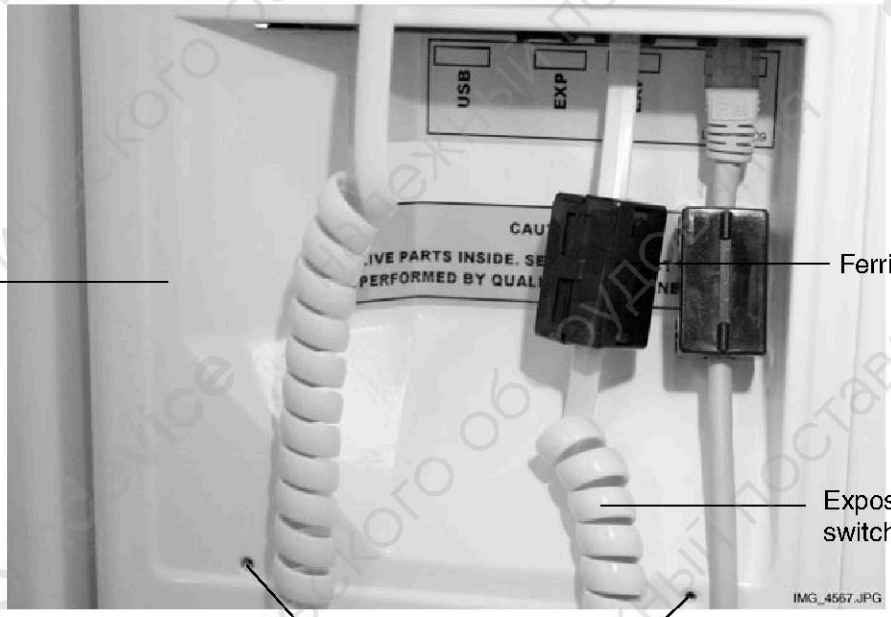
NOTE

Only the exposure switch cable can be connected to the terminals in the middle. Do not connect any other cables to these terminals.

NOTE

The left hand side terminal is a USB port and it is reserved for a USB memory stick. Do not plug any other USB devices into the USB port.

C



Back of moving column

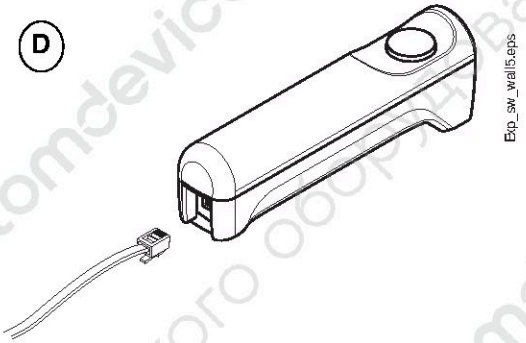
Ferrite bead

Exposure switch cable

Screws that hold the protective cover in position

Connect the other cable end to the exposure switch.

D



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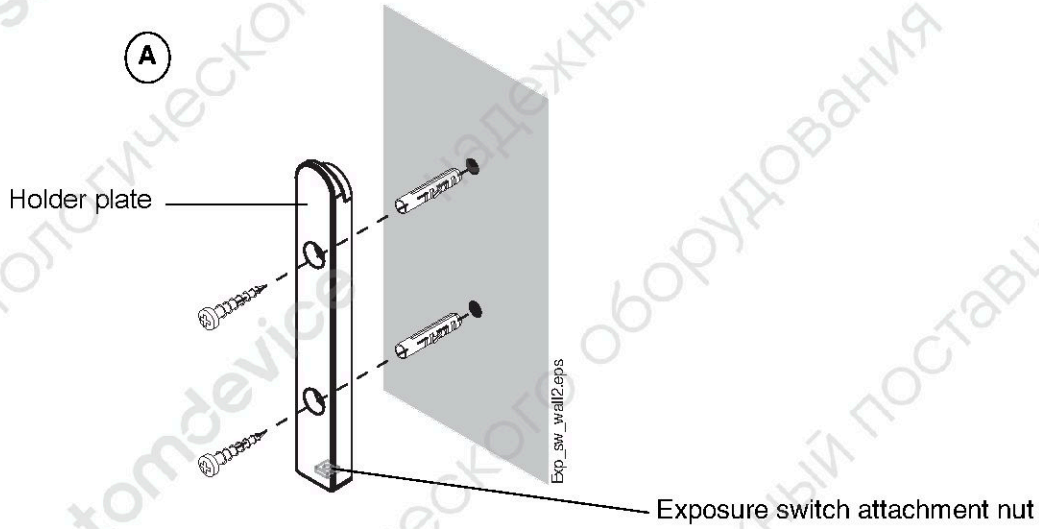
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8.2 Stationary exposure switch

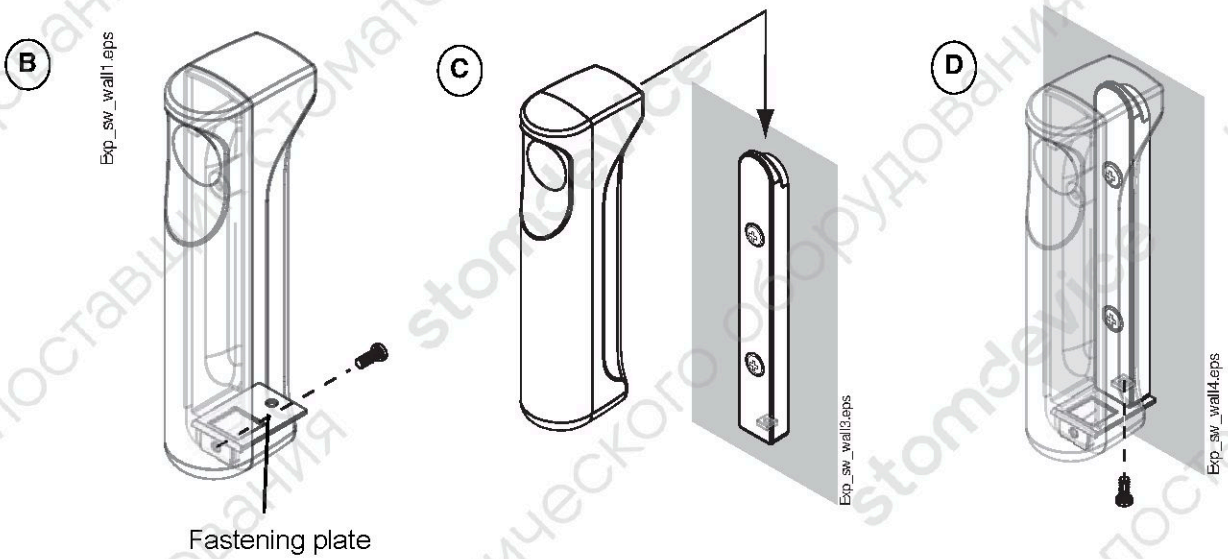
Use the holder plate to mark the position of the exposure switch.

- If the wall is made of concrete or brick, use the 4x30 screws and the 6x30 expansion anchors. Drill ø6mm (0.23 in.), 20 mm (0.8 in.) in depth, securing holes and place the expansion anchors onto the holes.
- If the wall is made of wood, use the 4x30 screws. Do not use the expansion anchors with wooden wall. Drill ø3 mm (0.11 in.), 20 mm (0.8 in.) in depth, holes for the attachment screws.

Make sure that the exposure switch attachment nut is in position at the lower end of the holder plate. Attach the holder plate to the wall with the two attachment screws.



Attach the fastening plate to the exposure switch with an EJOT PT 30x8 WN1451 screw. The exposure switch can now be positioned on the holder plate. Then attach the exposure switch to the holder plate with an M3x10 DIN 912 screw.



Connect the exposure switch cable to the terminal on the back of the moving column. To do this, you will first have to remove the cover that protects the terminals. Remove the protective cover by unscrewing the two screws at the bottom and then unlatching the cover at the top.

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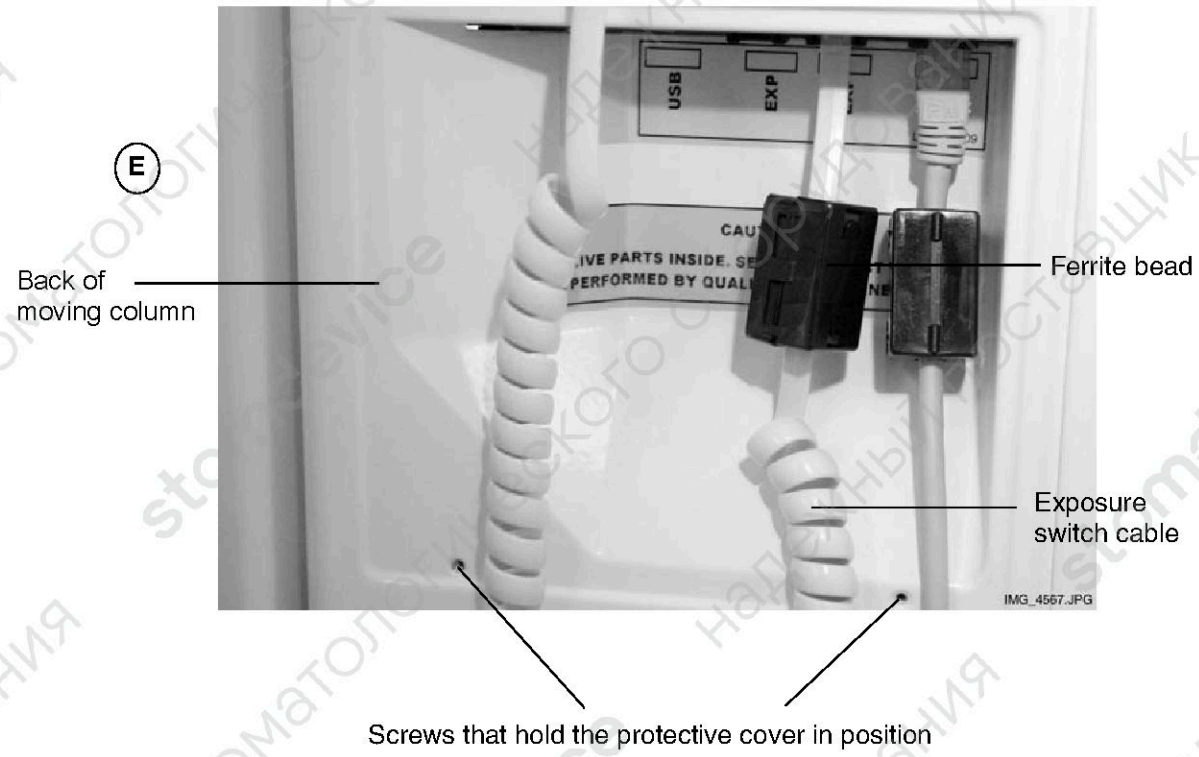
First attach a ferrite bead (included in the delivery) to the exposure switch cable. Then connect the exposure switch cable to either of the two terminals in the middle (marked EXP).

NOTE

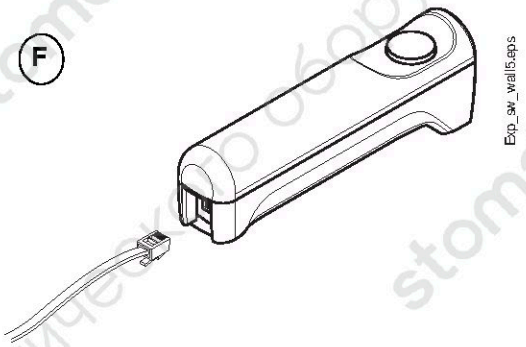
Only the exposure switch cable can be connected to the terminals in the middle. Do not connect any other cables to these terminals.

NOTE

The left hand side terminal is a USB port and it is reserved for a USB memory stick. Do not plug any other USB devices into the USB port.



Connect the other cable end to the exposure switch.



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9 INSTALLING THE DIGITAL SYSTEM

9.1 Connecting the Ethernet cable

The ProOne X-ray unit is connected to the local (10/100 Base) network and used from a PC with the Romexis imaging software. Use an Ethernet cable to connect the X-ray unit to the network.

Connect the Ethernet cable to the terminal on the back of the moving column. To do this, remove the cover that protects the terminals if it is not already off. Remove the protective cover by unscrewing the two screws at the bottom and then unlatching the cover at the top.

First attach a ferrite bead (included in the delivery) to the Ethernet cable. Then connect the cable to the right hand side terminal (marked ETH).

NOTE

Only the Ethernet cable can be connected to the right hand side terminal. Do not connect any other cables to this terminal.

NOTE

The left hand side terminal is a USB port and it is reserved for a USB memory stick. Do not plug any other USB devices into the USB port.



NOTE

Reattach the cover that protects the terminals by first latching the cover in place at the top and then fastening the two screws at the bottom.

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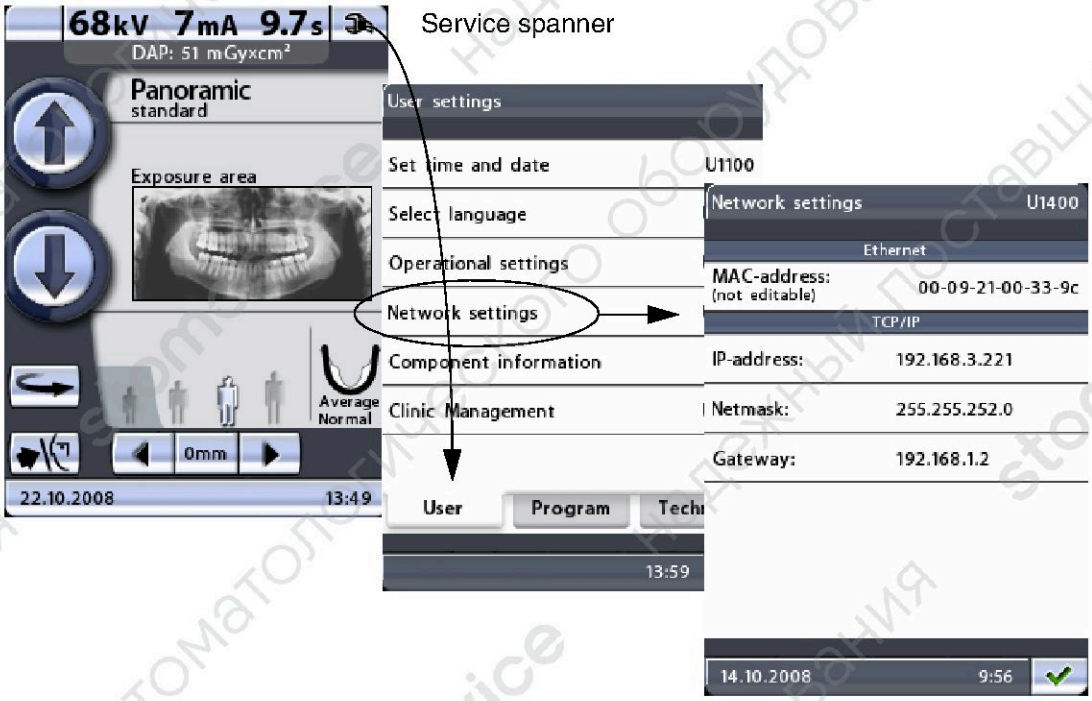
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9.2 Configuring the Ethernet link

To enable communication through Ethernet link:

1. The correct Ethernet link cable needs to be connected to the X-ray unit (see section 9.1 “Connecting the Ethernet cable” on page 32).
2. The Ethernet settings of the ProOne X-ray unit must be configured (see below).
3. The IP Address and IP Port (**5005**) must then be entered in the DIDAPI configuration program (Ethernet Interface settings). Refer to the Romexis Technical Manual for details.

The Ethernet settings of the X-ray unit are configured from the control panel. Start by touching the service spanner icon on the main display. The main display is the display that is shown when the X-ray unit is switched on. Select the option **Network settings (U1400)** on the **User settings** display. The **Network settings (U1400)** display will be shown.



On the **Network settings (U1400)** display you can change the default settings. Note that the settings shown above are just examples based on the network configuration of this X-ray unit. They are **NOT** the defaults for your installation.

- Ethernet

  MAC address: MAC (Media Access Control) address is unit specific and it cannot be changed.

- TCP/IP

  IP address: This field shows the Ethernet interface IP (Internet Protocol) address. The IP address is a unique number assigned to this X-ray unit.

  To change the IP address, touch the **IP address** field and enter the new address on the number keyboard that appears. Save the new IP address by touching the green check mark button, or exit the number display by touching the red cross button.

  Netmask: This field shows the subnet mask.

  To change the netmask, touch the **Netmask** field and enter the new netmask on the number keyboard that appears. Save the new netmask by touching the green check mark button, or exit the number display by touching the red cross button.

  Gateway: This field shows the gateway IP (Internet Protocol) address.

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To change the gateway IP address, touch the **Gateway** field and enter the new address on the number keyboard that appears. Save the new gateway IP address by touching the green check mark button, or exit the number display by touching the red cross button.

NOTE

The IP, Netmask and Gateway addresses have to be static and specified by the service technician/local administrator to be used only for this configuration.

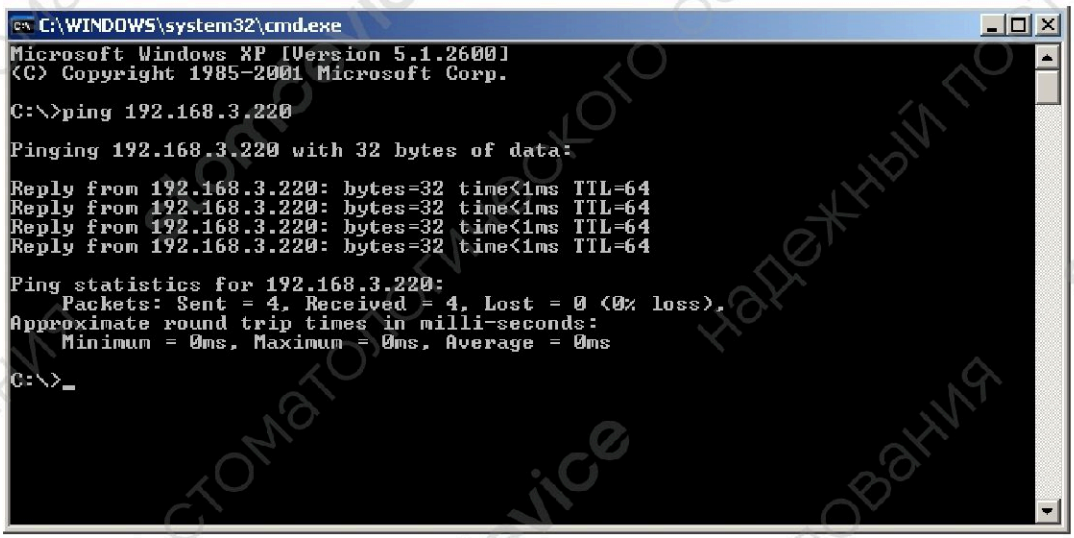
Exit the **Network settings (U1400)** display by touching the green check mark button in the bottom right corner of the display.

Then connect the other end of the Ethernet cable to the Ethernet network. Note that you may have to reboot the ProOne X-ray unit.

9.3 Checking the Ethernet link communication

The Ethernet link communication from the PC to the ProOne X-ray unit can be checked by opening the Command Prompt and executing the command "**ping <ProOne IP address>**", e.g. **ping 192.168.3.220.**

The ProOne X-ray unit will send a reply message (4 packets) if the Ethernet link is up and running.



NOTE

If you do not receive a reply message (e.g. Time-out signal) the Ethernet link is not working properly.

9.4 Installing the Romexis imaging software

Install the software according to the instructions given in the software technical manual.

9.5 Sensor calibration files

On Planmeca ProOne X-ray units, sensor calibration files are stored on the memory chip of the X-ray unit. You do not need to install sensor calibration files via DIDAPI Configuration.

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10 POST-INSTALLATION CHECK LIST

X-ray unit movements ☐

Check the C-arm and column movements.

X-ray beam ☐

Check the beam alignment. Refer to the X-ray unit's Technical Manual, section "Adjusting and calibrating X-ray beam".

If necessary, adjust the X-ray beam according to the instructions given in the Technical Manual.

Patient positioning lights ☐

Check the position of the patient positioning lights (midsagittal plane light, layer light and Frankfort plane light). Refer to the X-ray unit's Technical Manual, section "Adjusting the positioning lights".

If necessary, adjust the patient positioning lights according to the instructions given in the Technical Manual.

Taking a ball phantom exposure ☐

Take a ball phantom exposure according to the instructions given in the X-ray unit's Technical Manual, section "Taking a ball phantom exposure".

If necessary, adjust the position of the patient support table and C-arm according to the instructions given in the Technical Manual.

Emergency stop button ☐

Check the emergency stop button functionality.

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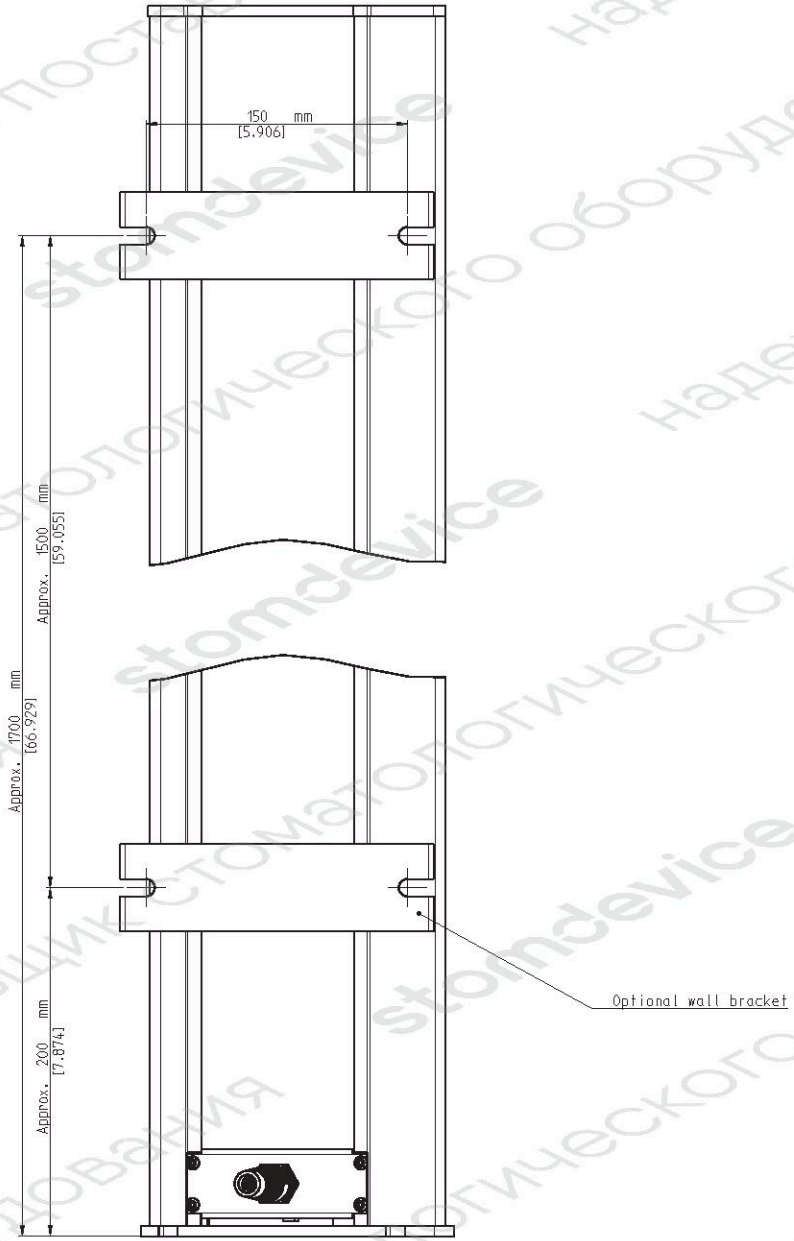
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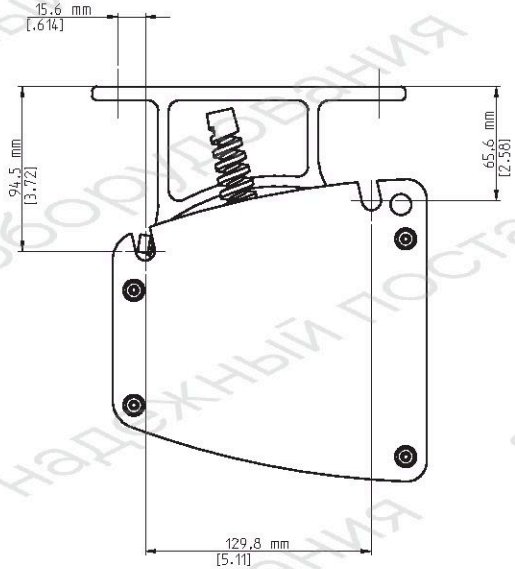
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11 DIAGRAMS

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For detailed information about installating the unit, see PLANMECA ProOne installation manual.

Dimensions: mm [inch]

Muutos Change	ECO numero ECO number	Muutoksen kuvaus Change description	Päiväys Date	Muuttaja Changed By

Arvioitu määrä Estimated pcs.	Nimitys ProOne SEINÄKIINNITYS	Aine	
	Name ProOne WALL ATTACHMENT	Material	
Yleistoleranssi ja luokka General tolerance			
Pintakäs.		Väri Colour	
Surf.finish		Edustava pinta Decorative surf.	----

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fax +358 20 7795 566
www.planmeca.com

Piirustusta vastaavan mallin nimi Model name corresponding to drawing	48141		
Suunn. Designer P. Pohjoispuro	Model ver. A	Model vers. 0+	Päiväys Date 06.06.07
Hyv. Appr. 07143	Tila Status Released		Koodi Code
Suhde Scale 1:2	Piir.nro 2-7005-4814I-A	Drawing no.	Versio Version 0+

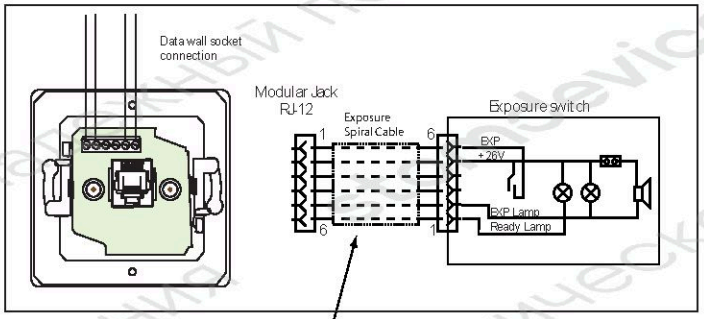
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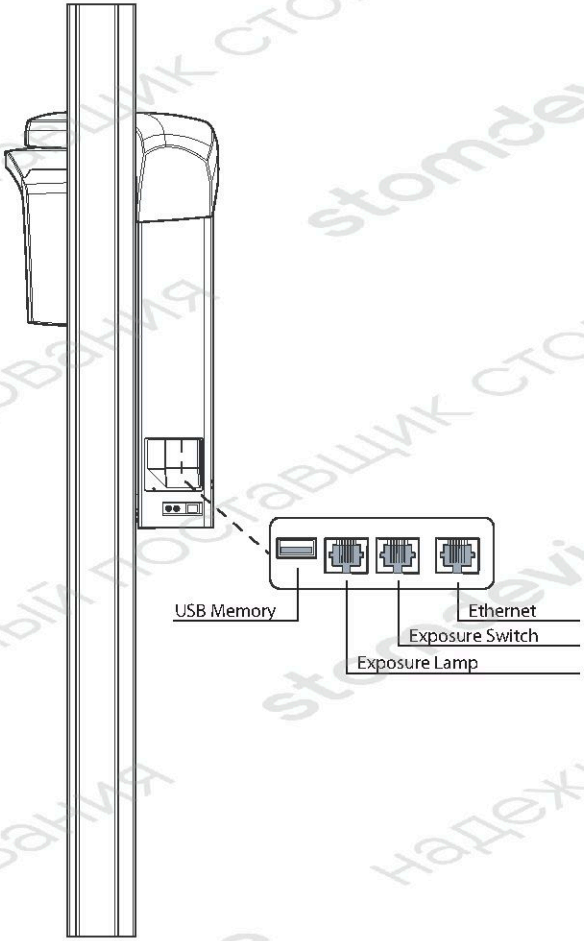
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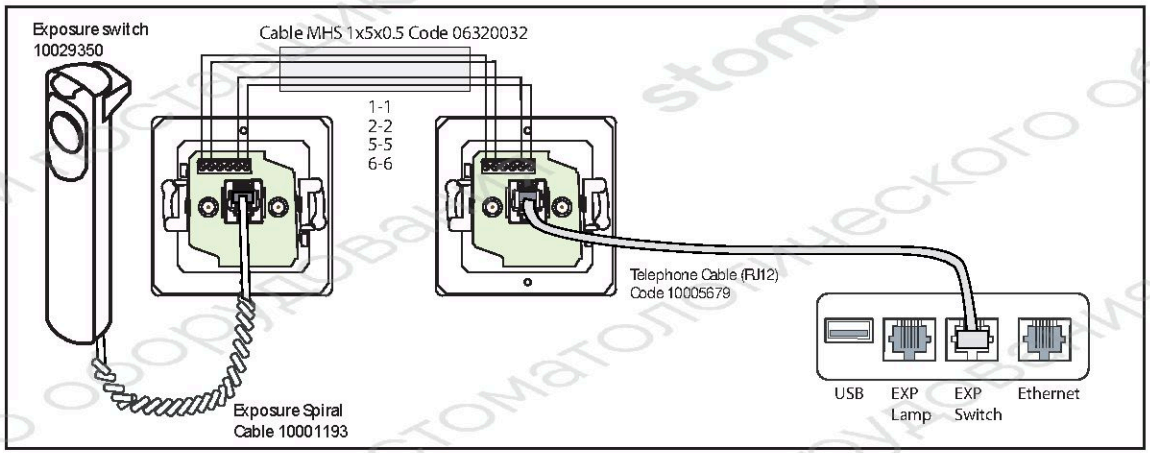
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Planmeca ProOne
Remote Button EU
06.03.2017 LY







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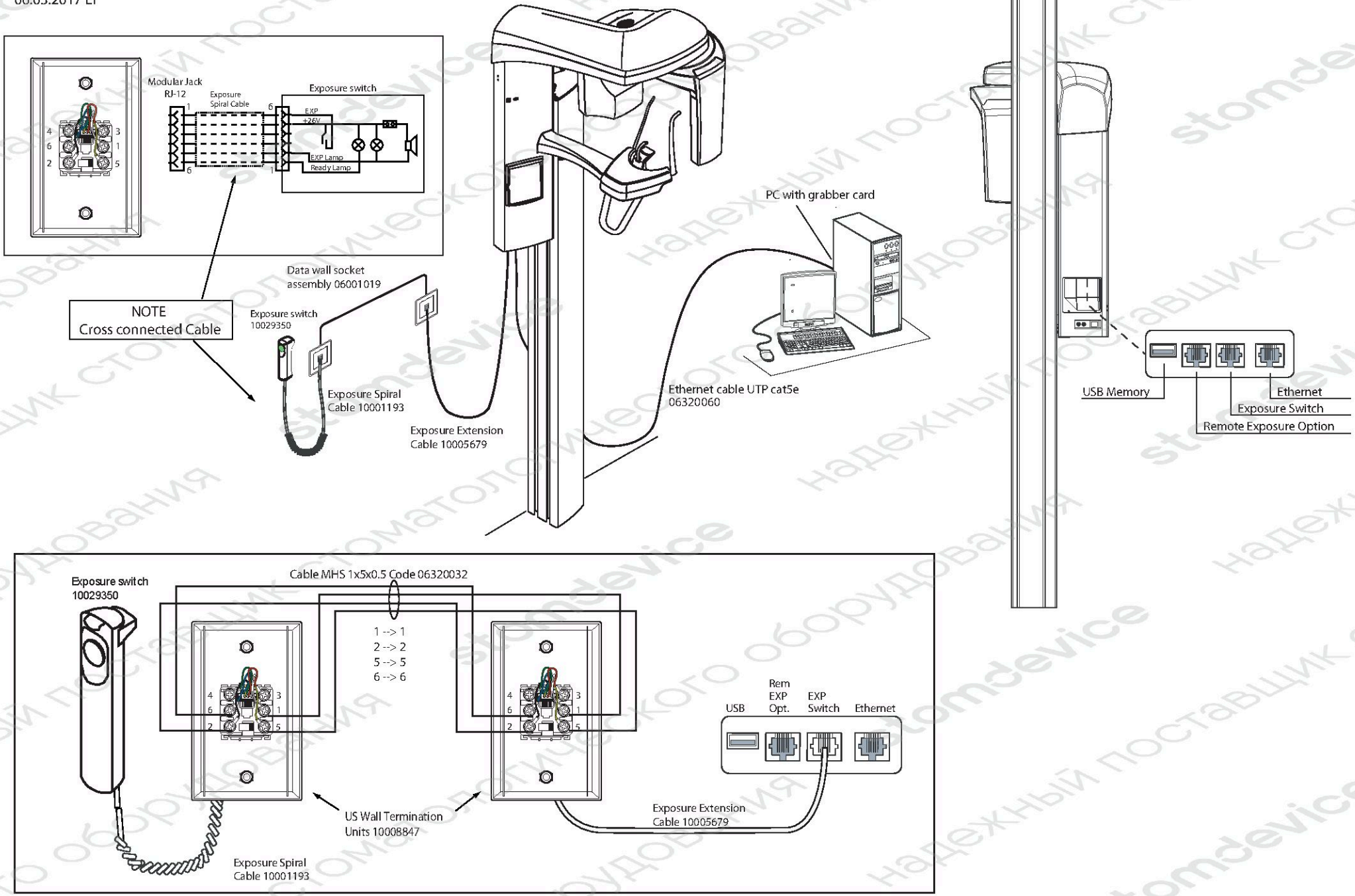
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Planmeca ProOne

Remote Button US

06.03.2017 LY



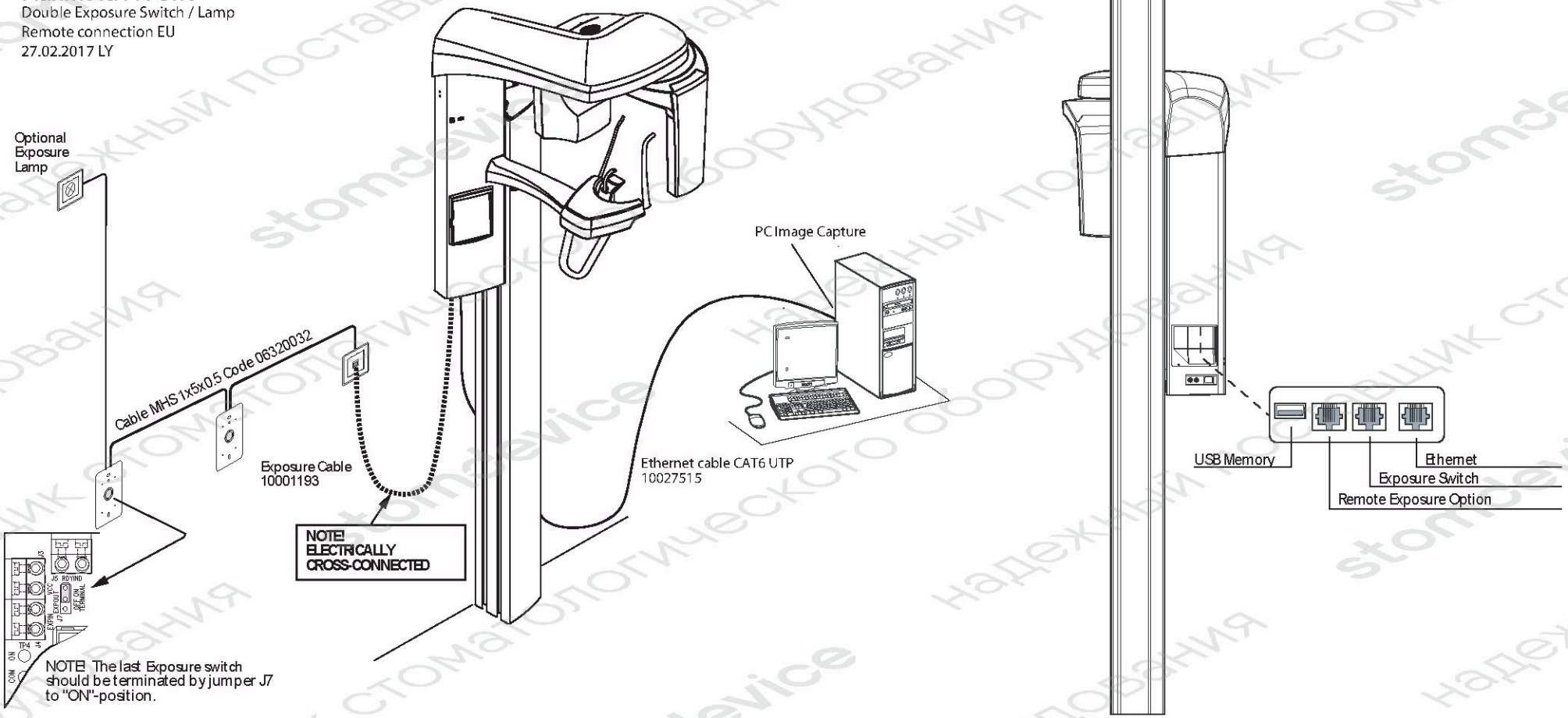
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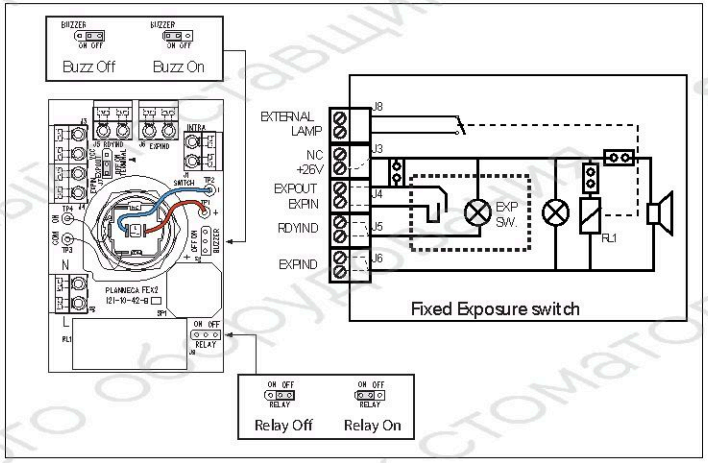
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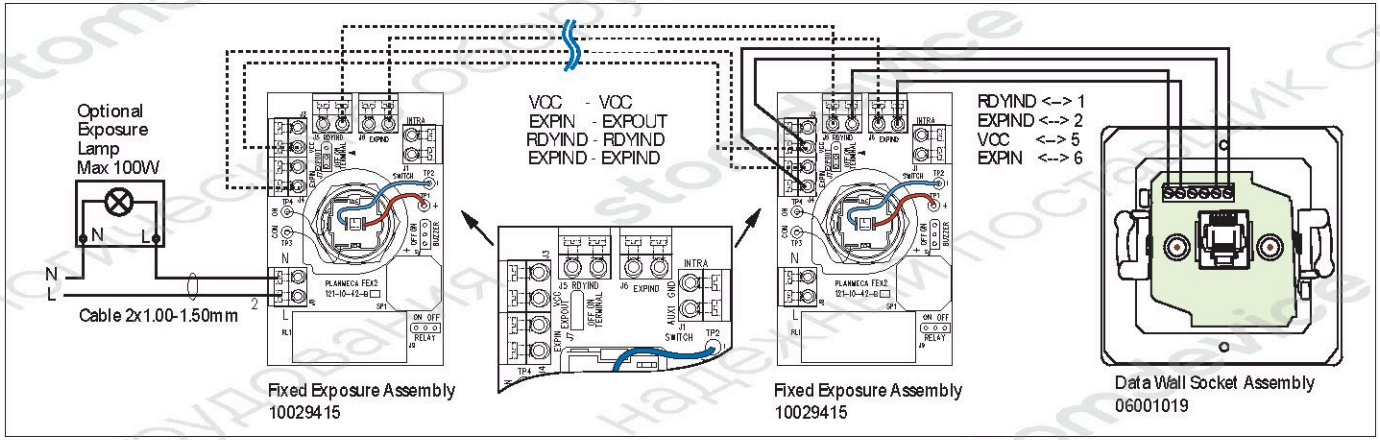
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Planmeca ProOne

Double Exposure Switch / Lamp
Remote connection EU
27.02.2017 LY







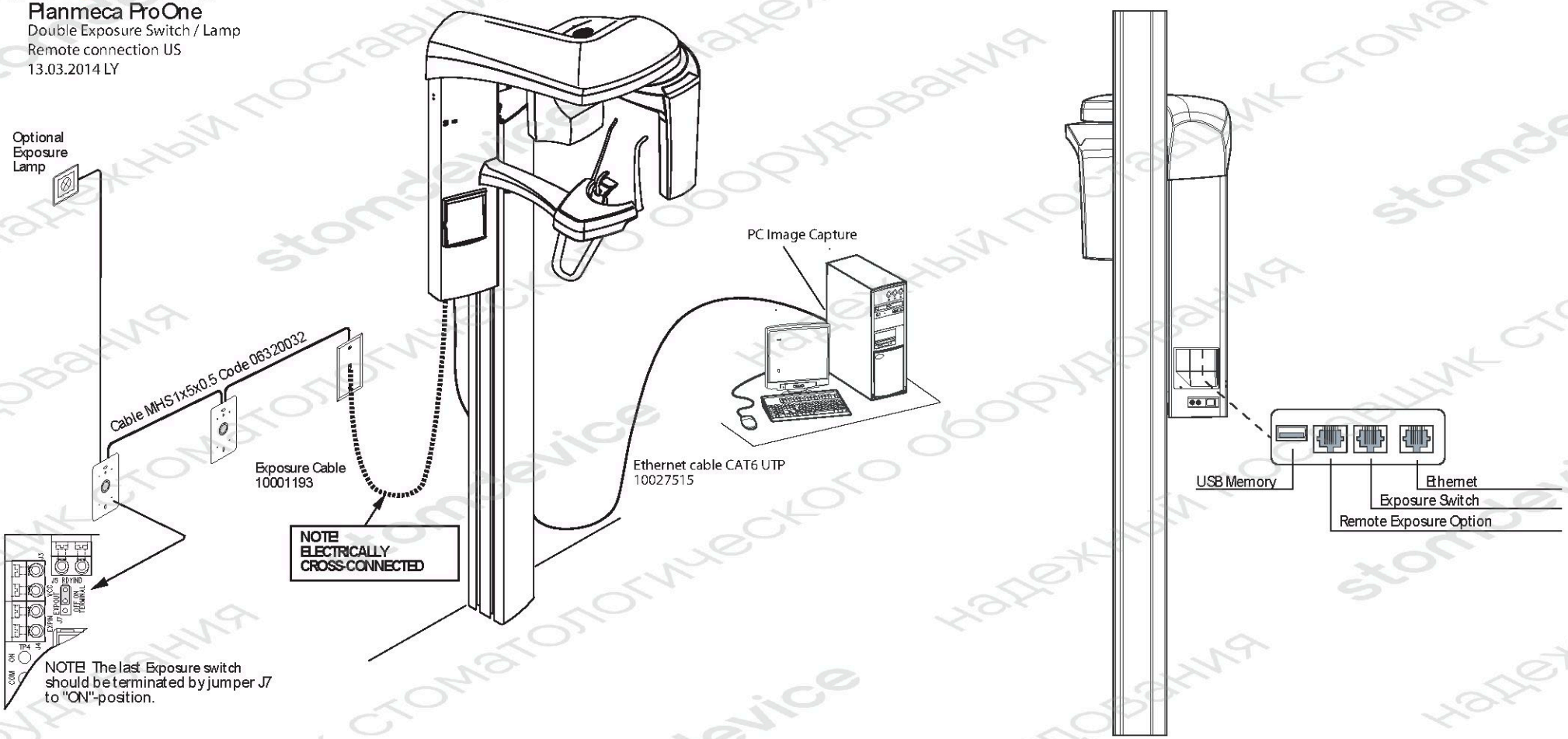
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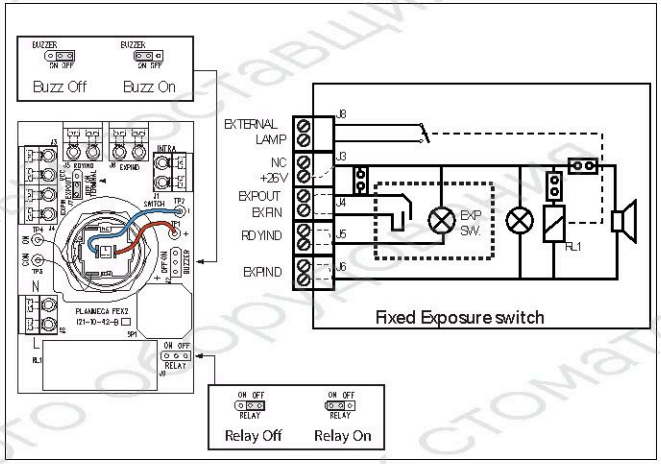
https://stomdevice.ru - стоматологическое и зуботехническое оборудование с доставкой по России и СНГ

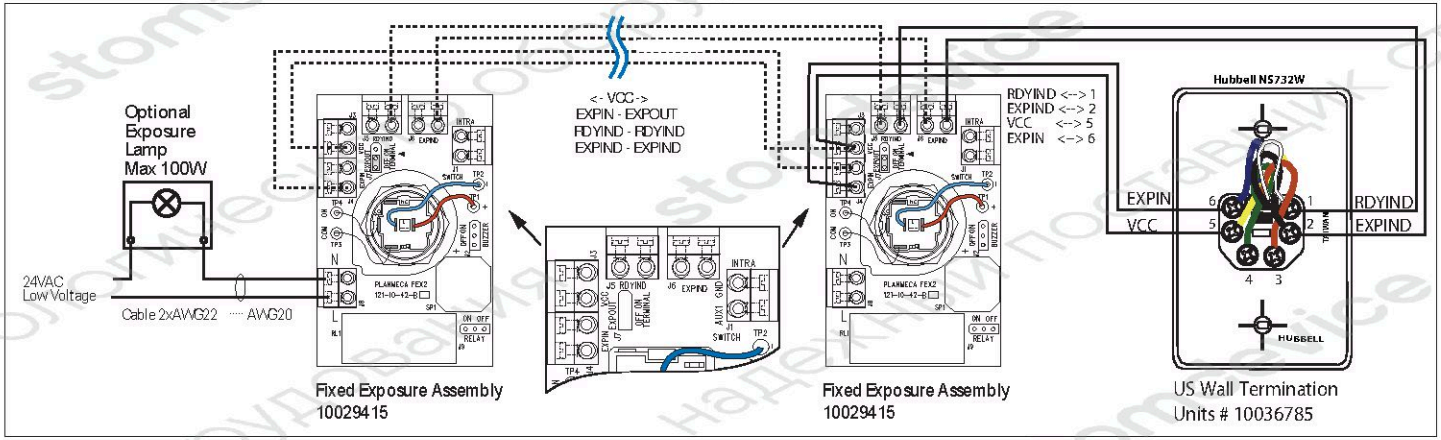
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Planmeca ProOne

Double Exposure Switch / Lamp
Remote connection US
13.03.2014 LY







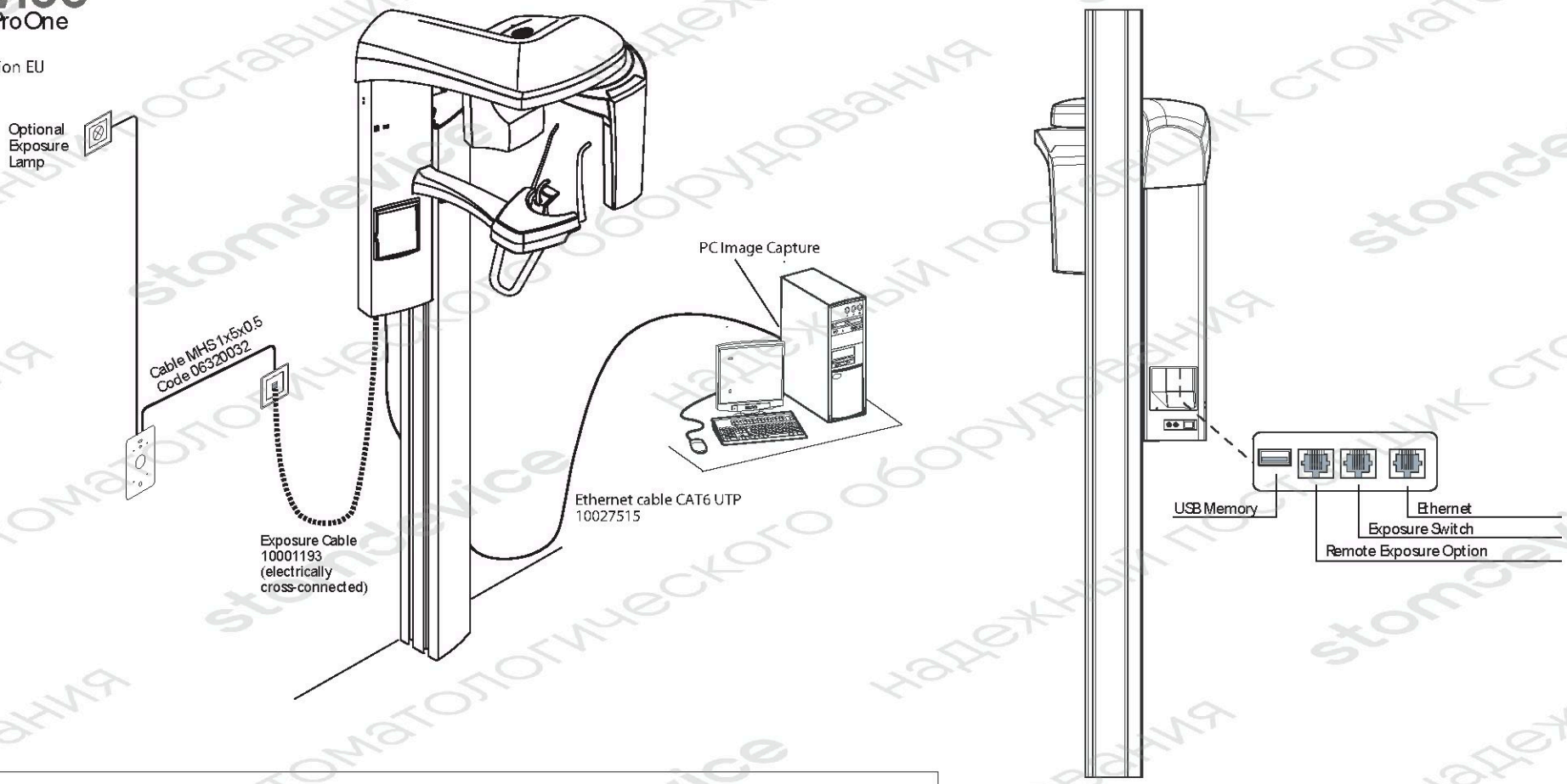
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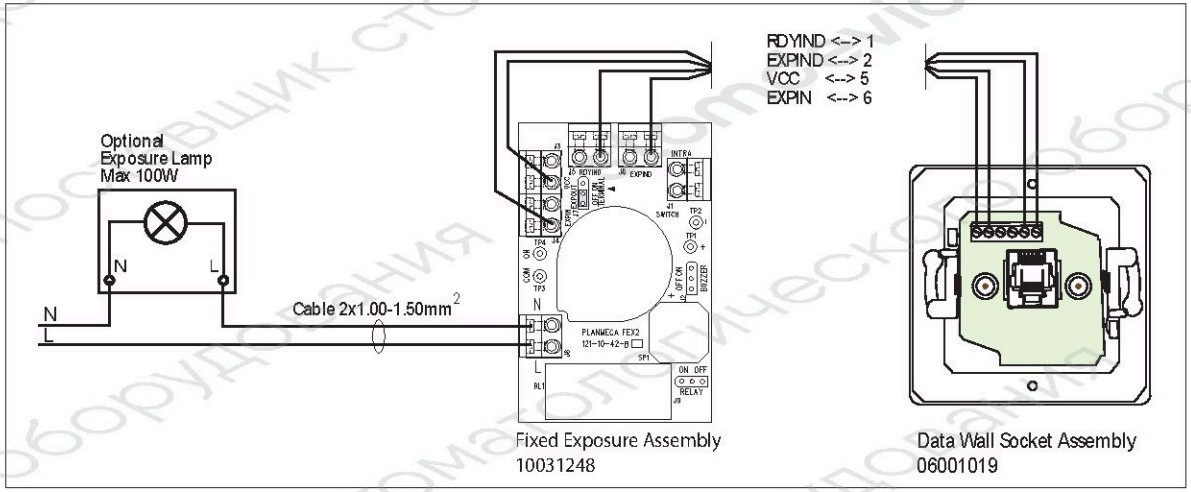
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Planmeca ProOne

Exposure Lamp
Remote connection EU
27.02.2017 LY





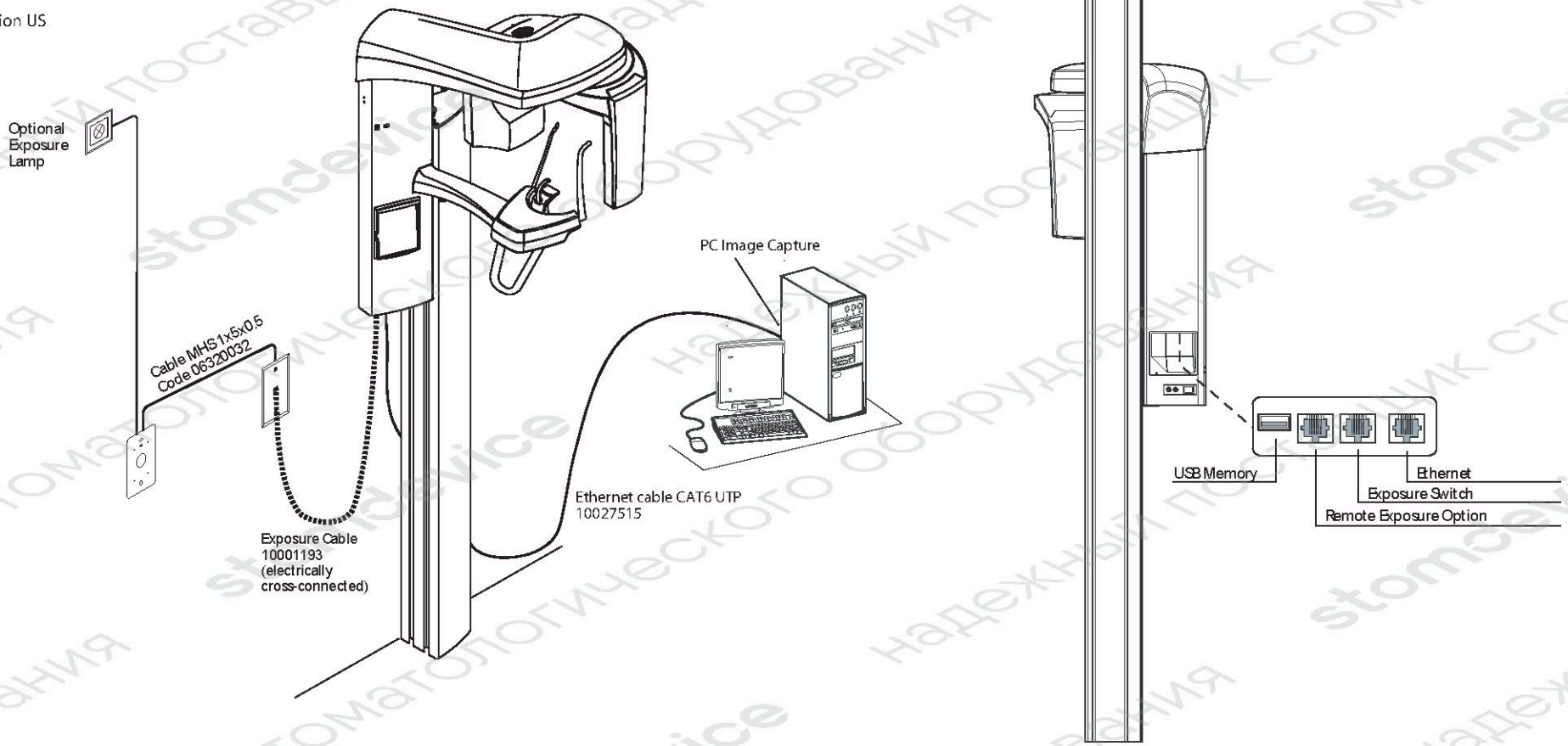
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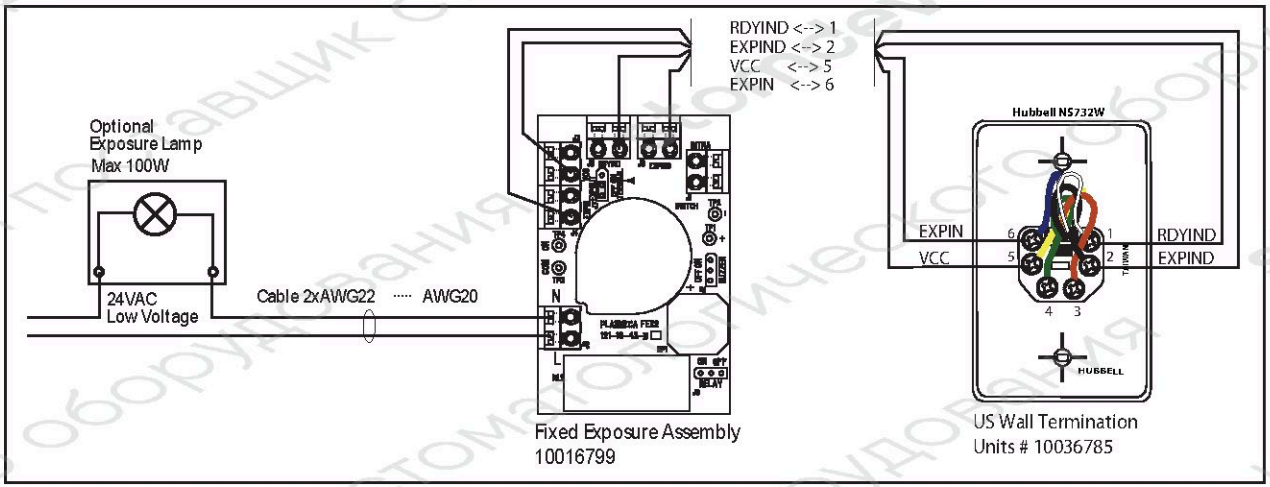
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Planmeca ProOne

Exposure Lamp
Remote connection US
12.06.2014 LY





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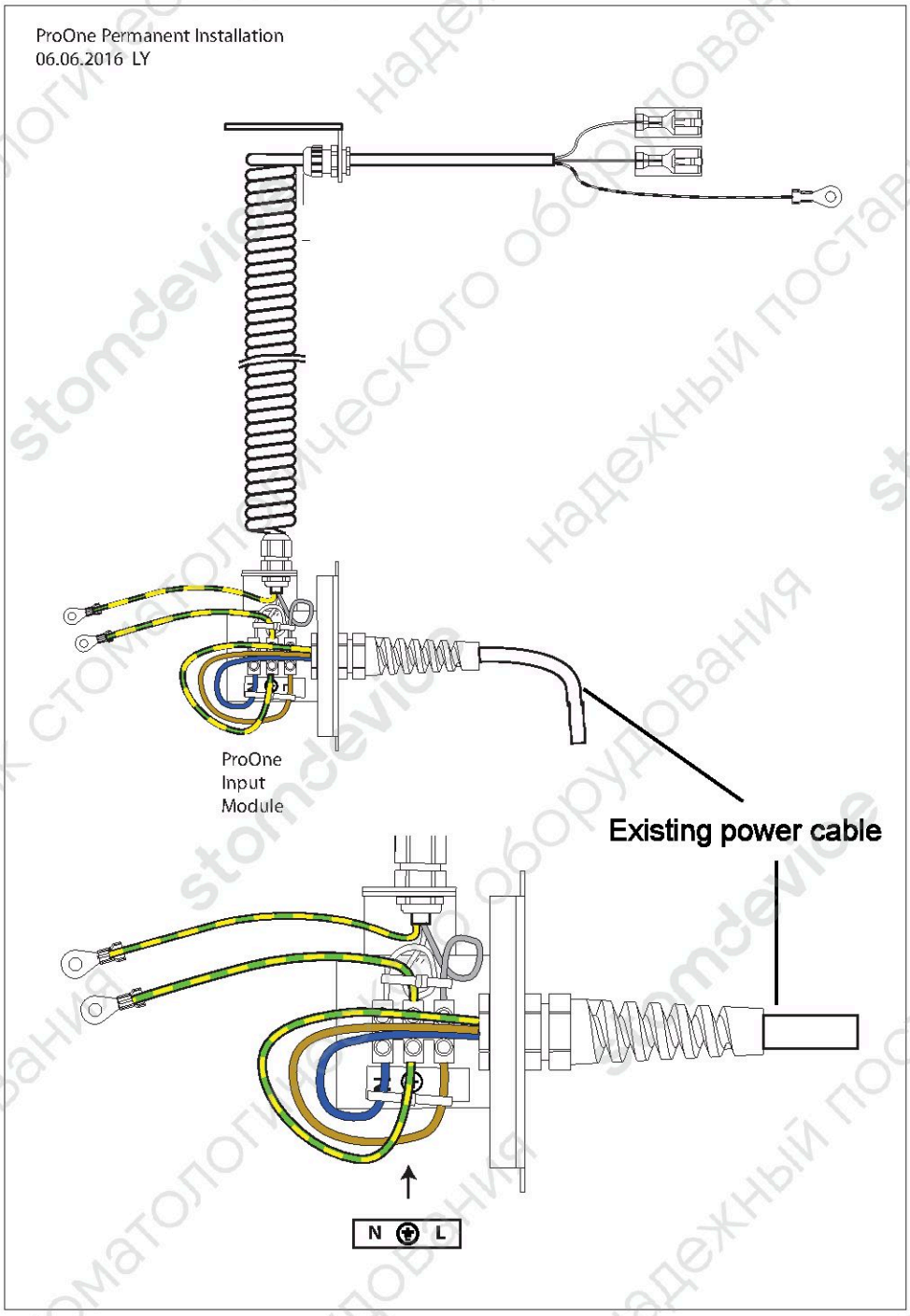
WIRING DIAGRAM FOR EXISTING PERMANENTLY INSTALLED POWER CABLE

WARNING

- Ensure that the power cable is not connected to live voltage.
- The X-ray unit main switch does not cut off the voltage in the mains terminal block.

NOTE

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



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