TECHNIMOUNT
EMS®

XTENSION PRO® ASSISTANT – CCT/ECMO

USER MANUAL

SAE J3043 TESTED 26G TECHNIMOUNT ENGINEERING

SAFETY AND FLEXIBILITY
WHERE IT MATTERS MOST

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For any issues with your Technimount product, its components, or for any technical questions during the installation, operation, or maintenance, please contact Technical Support at techsupport@technimount.com.

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1. General Mentions and Considerations

The Xtension Pro Assistant – CCT/ECMO user manual includes detailed product information, standards and guidelines to assist the administrator/manager/supervisor and biomedical technician (or equivalent) with the unpacking, assembling (when indicated) and maintenance of the Technimount product. It also includes specific user-related information to assist trained EMS and clinical personnel with effectively operating the mounting system.

Please read the user manual thoroughly to fully assess, comprehend, then relay its content to EMS and clinical personnel during training, to warn them of any potential danger of its abuse, how to safely use the product and provide a safe environment for patients as well as themselves. Your established internal protocols should be updated to include the Technimount product(s) standards, guidelines, requirements and safety recommendations included within this documentation. The user manual should remain available to users when needed and relayed if the product is subsequently sold.

NOTE : Technimount continually seeks advancements in product design and quality. While the user manual contains the most updated product information available at the time of printing, it may contain minor differences from the current version, including image references. For more information, please contact Technical Support at techsupport@technimount.com.

NOTE : Technimount reserves the right to change part numbers and products without notice. Please contact Customer Service at customerservice@technimount.com to ensure product options and availability.

1.1. Intended Use

The Xtension Pro Assistant – CCT/ECMO is designed to aid trained EMS and clinical personnel secure and move the medical devices that are essential to patients receiving Extracorporeal Membrane Oxygenation treatment (hereinafter referred to as "ECMO"), exclusively during ground EMS and critical care transport on a Stryker Power-PRO XT stretcher.

1.2. User Competency

To safely operate the mounting system, EMS and clinical personnel must have the required skill level. Training should be given to EMS and clinical personnel, taking in account the skill level that is necessary to comply with their function and level of interaction with the Xtension Pro Assistant – CCT/ECMO:

- **Proficient (trained EMS and clinical personnel):** Has received the required training, is sufficiently knowledgeable to safely operate the product and have passed the skills assessment (refer to the « Skills Assessment of the Clinical Staff » section on page 29).

  NOTE : Any member of the EMS and clinical personnel who has not received the required training and lacks the knowledge needed to safely operate the mounting system must not use the product.

- **Expert (administrator/manager/supervisor):** Has in-depth knowledge and product comprehension, and is familiar with standards and guidelines. Skilled to train EMS and clinical personnel on how to safely use the product.

- **Advanced (biomedical technician or equivalent):** Has extensive mechanical experience. Skilled to perform the unpacking, assembly, safety checks and condition-based maintenance procedures as detailed herein, or the basic troubleshooting, upgrade and/or replacement procedures if applicable.

1.3. Warranties

1.3.1. Warranty Policy

This statement constitutes Technimount's entire warranty policy with regards to Technimount products. Technimount makes no other warranty or representation, neither expressed nor implied, except as stated herein. There is no warranty of merchantability or warranty of fitness for any particular purpose. Under no circumstances will Technimount be held liable hereunder for incidental or consequential damages, arising from or in any manner, related to sales or use of any such product.

Technimount E.M.S. Holding Inc. guarantees to the original "Purchaser" of the "Product" with which this "Limited warranty" is included, that the product will be free from "Defects" in workmanship and materials under normal use for a "Warranty period" of one (1) year from the product purchase date by the purchaser. During the warranty period, the product will be repaired or replaced according to the "Limited warranty" without charge to the purchaser for parts or labor. The parts and product may be repaired or replaced with new or refurbished parts or products. Herein this Limited Warranty, "Refurbished" means parts and products which have been returned to the factory, specifically. If the product is repaired or replaced within the warranty period, the greater of the remaining warranty period will apply, or three (3) months from the date of repair or replacement. If the product is repaired or replaced after the warranty period has expired, the warranty period for the repair or replacement will expire three (3) months after the repair or replacement date.

1.3.2. Limited Warranty

Technimount products are intended to retain in place medical devices in the case of a single crash impact. Technimount products must not be reused if involved in a single crash impact and must thereafter be replaced. If the end user uses a Technimount product following a single crash impact, it is at the end user's own risk and Technimount will not be held liable.

The limited warranty does not apply to normal wear that could result from normal use. It does not apply when the product or any of its components have been disassembled or repaired by someone not authorized by "Technimount". It does not cover repair or the replacement of any product or part thereof damaged by neglect, misuse, moisture, liquids, exposure to heat, accidents, abuse, and non-compliance with the instructions for installation and use provided with the product. It does not cover physical damage to the surface of the product. The decision to repair, replace or refuse the coverage is final and at the sole discretion of Technimount, without any compensation or obligation from Technimount. The product defined as a "mounting system" used to secure and move medical devices during ground EMS and critical care transport on a Stryker Power-PRO XT stretcher, is specifically designed to fill this requirement. Any other use will void the warranty and Technimount shall not be held liable on any claim if the product has been modified or adapted for use.

1.3.3. International Warranty Clause

This warranty abides by the Canadian domestic policy. Warranty outside Canada may vary by country. Please contact Customer Service at customerservice@technimount.com for more information.

1.3.4. User Liability

The purchaser and administrator are responsible to validate regulations and standards for safety in their region, to comply with applicable safety regulations. Technimount is not responsible to inform the purchaser or the administrator of any applicable legislation for safety in their area.

The administrator is responsible for providing proper training to any personnel who will install, operate and perform maintenance on Technimount products.

1.4. Claims

1.4.1. Damaged or Defective Merchandise

ICC Regulations require that claims for damaged merchandise must be made with the carrier within fifteen (15) days of the reception date. **Do not** accept damaged merchandise unless such damage is noted on the delivery receipt at the time of reception. Upon prompt notification, Technimount will file a freight claim with the appropriate carrier for damages incurred. Claims are limited in amount to the actual replacement cost. If the claim has not been received by Technimount within the fifteen (15) day period following the date of delivery, or the damage was not noted on the delivery receipt at the time of receipt, the customer will be responsible for the full payment of the original invoice.

Claims for any short or broken merchandise must be made within thirty (30) days of invoicing. For details, refer to the claim process or contact Customer Service at customerservice@technimount.com.

1.4.2. Return Policy

Technimount products may be returned up to sixty (60) days from the reception date, if:

- The received product does not match what was originally ordered.
- The product does not meet the Technimount technical sheet specifications.
- The product is not compatible with the system on which it was intended to be installed on.

To return a Technimount product,

- A Return of Merchandise Authorized (RMA) must be requested and approved by Technimount prior to returning the product.
- Products must be returned undamaged and in its original packaging, appropriately identified with the approved RMA number. Returns will not be approved on a modified or damaged item.
- Charges may apply if the package received is damaged or items are missing.
- Purchaser is responsible for a restocking fee (refer to Table 1 on page 8).

Table 1: Restocking fees

RESTOCKING FEES	
Prior to thirty (30) days	10%
Prior to forty-five (45) days	25%
Prior to sixty (60) days	30%

For any manufacturing defect, refer to the conditions within the warranty policy or contact Customer Service at customerservice@technimount.com for additional information.

1.4.3. Return of Material Authorization (RMA)

The Technimount Customer Service department is responsible for all merchandise returns and will provide a Return of Merchandise Authorization (RMA) number, upon approval. The RMA must be printed and placed on the returned merchandise. Technimount reserves the right to charge shipping and restocking fees (refer to Table 1) for the returned items. Special, modified, or discontinued items are not subject to returns.

1.4.4. Claim Process

Upon reception of the returned merchandise, a thorough inspection will be performed. If the merchandise is compliant with the return policy or it is found that the product is defective, Technimount will take corrective actions and close the claim. If, however, it is found that the product is not defective, but rather misused or abused, the product will not be covered by the warranty. Details of our findings and conclusions will be provided shortly thereafter. To submit a claim, contact Customer Service at customerservice@technimount.com to obtain a Return of Material Authorization (RMA) form and return instructions.

2. General Safety Guidelines

Always read and abide by all the safety guidelines identified within this document. Pictograms, safety symbols and labels are used to alert the user to a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury to the patients or EMS and clinical personnel, or damage to the product. This includes the special care necessary for the safe and effective use of the Technimount product to avoid damage that may occur from use or misuse. The terms "Warning" and "Caution" herein carry special meaning and should be carefully reviewed.

WARNING – Indicates a hazardous situation that, if not avoided, could result in death or serious injury.

CAUTION – Indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.

2.1. Symbols and Definitions

CAUTION – Transport in a Low Position

Call for action. Alerts the reader to a carrying technique recommended by the stretcher manufacturer.

WARNING – Hand Crush/Pinch Point

Indicates an area where mechanical components could move toward each other and might result in a potential crush/pinch hazard.

WARNING – Risk of Injury

Indicates when a misuse of the Technimount product could result in injuries to the patients or EMS and clinical personnel, or damage to the product.

CAUTION – Safe Handling and Operation

Alerts the reader to pay special attention to the recommendations for safe use of the product, and of potentially hazardous situations that could result in minor injuries to the patients or EMS and clinical personnel. This includes the special care necessary for the safe and effective use of the product to avoid damage that may occur from use or misuse.

CAUTION – Safe Practice

Alerts the reader to pay special attention to the recommendations and methods outlining how to safely operate the product to minimize risks to the patients, EMS and clinical personnel and the product.

CAUTION – Safe Working Load (SWL)/Load Balance

Indicates the total maximum charge for the safe use of the product.

CAUTION – Two (2) Person Lift

Heavy load. Alerts the reader to a two (2) person lift carrying technique recommendation based on the weight and/or size of the product.

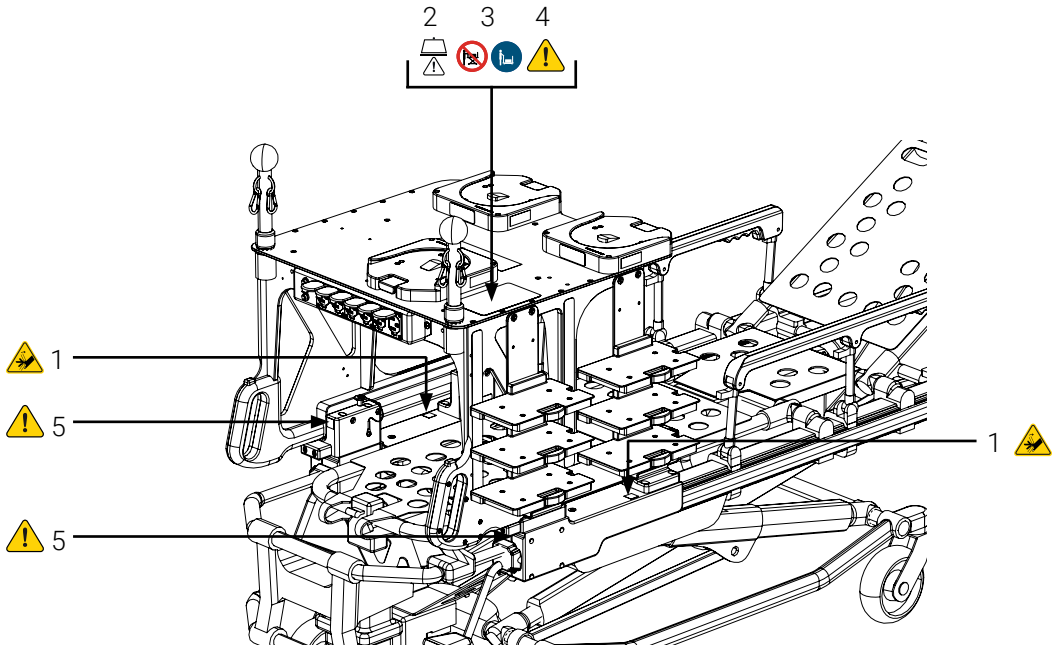
CAUTION – Follow Instructions for Use

Call for action. Reminds the reader to consult the user manual for information.

2.2. Labels

Labelling on the surface of the Technimount product, quickly identify potential risks and provides information to the user. Warning labels (Figure 1) and a manufacturing label, including the serial number (Figure 2), can be seen on the Technimount product.

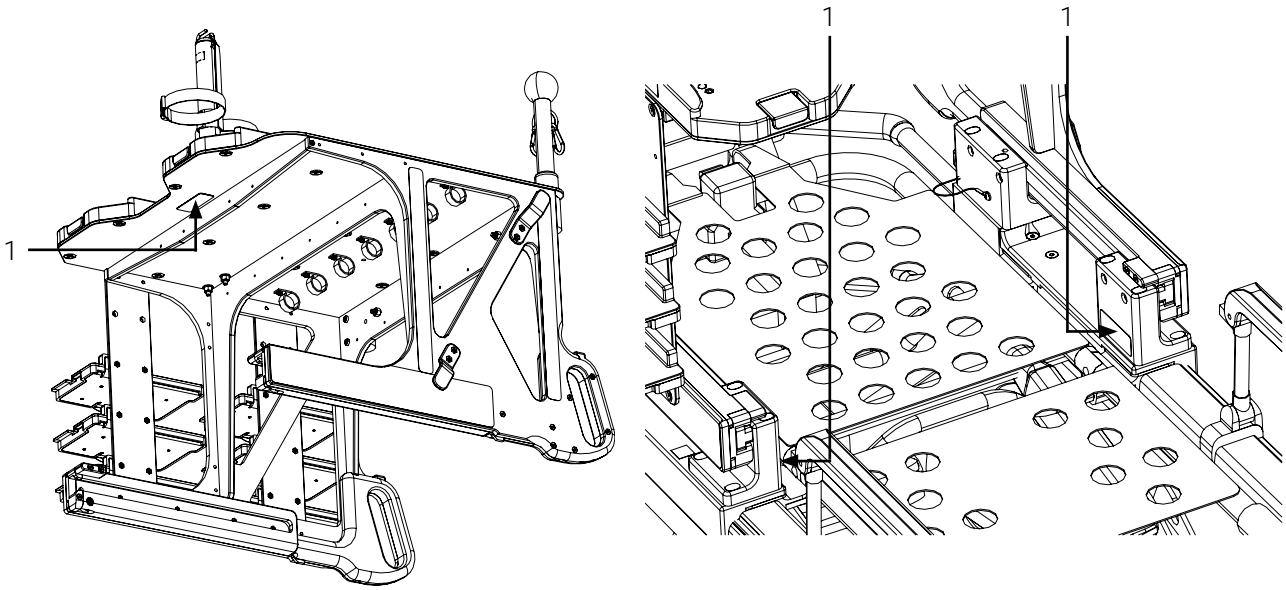
2.2.1. Safety Labels



1. Hand crush/Pinch point label (2X)
2. Safe Working Load (SWL)
3. Transport in a Low Position
4. Follow Instructions for Use
5. Risk of Injury (2X)

Figure 1: Location of the warning labels

2.2.2. Manufacturing Labels



1. Manufacturing label (3X)

Figure 2: Location of the manufacturing labels

2.3. Safety Measures

Carefully read all the safety measures herein before operating the Technimount product, relay to EMS and clinical personnel during training, and include in your established internal protocols.

More specific safety measures intended for biomedical technicians (or equivalent) relating to the safety checks and conditioned-based maintenance can be found in the « Maintenance » section on page 59.

CAUTION – Transport in a Low Position

The stretcher manufacturer recommends transporting the stretcher at the lowest possible height to avoid back injuries or tipping incidents. Refer to the manufacturer's user documentation and to your established internal protocols for safety guidelines and safe use of the stretcher.

WARNING – Hand Crush/Pinch Point

Always keep hands and fingers away from the XTPA-PPXT Rail System during the installation and the removal of the mobile structure, and/or away from the braking system when adjusting the height of the stretcher and/or moving the mounting system to avoid injury.

WARNING – Risk of Injury

- **Do not** move the stretcher when the mobile structure is in the extended position, to prevent undue risk to the device, patients, and EMS and clinical personnel.
- Always use the Xtension Pro Assistant – CCT/ECMO as it was intended, using only the compatible mounting brackets and medical devices. Improper use of the Technimount product may cause unpredictable functioning resulting injury to the patients or EMS and clinical personnel. Refer to the « Technical Specifications » section on page 14 for compatibilities.
- If any serious incident occurs with the mounting system, immediately stop using the product, report this incident to Technical Support at technicalsupport@technimount.com and the applicable regulatory agency.

CAUTION – Safe Practice

- Always pay close attention to the condition of the safety mechanisms, to prevent undue risk to the device, patients, and EMS and clinical personnel. Follow the recommended maintenance plan and its guidelines, as described in the user manual.
- Practice safely operating the mounting system until the manipulations have been perfected, before use with patients. Improper use of a Technimount product may damage it or cause injury to the patients or EMS and clinical personnel.
- Regulations and standards for safety are the sole responsibility of the end user. Ensure that the installation specifications meet the local and regional compliance requirements before use.
- Refer to your established internal protocols and the user documentation provided with each specific medical device for the safety guidelines and safe use.

CAUTION – Safe Handling and Operation

- Always ensure that the Xtension Pro Assistant – CCT/ECMO is secured in the XTPA-PPXT Rail System before moving the stretcher and during transport.
- Always ensure that the lock pins are installed before moving the stretcher and during transport. The lock pins should only be removed to insert and remove the mobile structure.
- Always ensure that the medical devices are secured in the mounting brackets and that the locking mechanisms are properly engaged before moving the stretcher and during transport.
- Always use the push bars and/or integrated handle (depending on your configuration) to move the mounting system.
- Always pay close attention not to wedge the power cords or tubing during the installation or the removal of the medical devices and/or accessories, and the installation and removal of the infusion pumps. Refer to your established internal protocols for the safety guidelines and safe use with the mounting system.

CAUTION – Safe Working Load (SWL)/Load Balance

Do not overload the mounting system to avoid tipping incidents or risks of collapsing. The total Safe Working Load (SWL) is 103 lb (46.8 kg). Refer to the « Technical Specifications » section on page 14 for the SWL of the mounting system components.

CAUTION – Two (2) Person Lift

Trained EMS and clinical personnel are required to safely lift the Technimount product.

CAUTION – Follow the Instruction for Use

- Always read and abide by all the safety guidelines identified, as well as follow all of the instructions provided with the user documentation of the Xtension Pro Assistant – CCT/ECMO.
- The Xtension Pro Assistant – CCT/ECMO may contain optional medical equipment and accessories. Refer to their specific user documentation for the safety guidelines and safe use.

3. Technical Specifications

Product Name	Xtension Pro Assistant – CCT/ECMO
Description	Mounting system designed to aid trained EMS and clinical personnel secure and move the medical devices needed for Extracorporeal Membrane Oxygenation treatment (ECMO), during transport on a Stryker Power-PRO XT stretcher
Product Code	1650-00-PFXT-EC
Operating Environment	EMS/CCT (ground)
Compliance	Tested in compliance with SAE J3043 and AMD-028
Expected Service Life	5 years
Compatible Stretcher	Stryker Power-PRO XT
Compatible Mounting System	XTPA-PPXT Rail System
Compatible Medical Devices/ Accessories	- Hamilton Medical, Hamilton-T1 ventilator - ZOLL Medical Corporation, ZOLL X Series monitor/defibrillator - Maquet Getinge Group, Cardiohelp System portable ECMO device - B. Braun, Infusomat Space and Perfusor Space infusion pumps - Baxter, Spectrum infusion pump - Technimount, Standard Surface Base - Technimount, Techni-IV pole and harness approved for ambulance transport - Technimount, Bracket Pro Serie 25 for the ZOLL X Series monitor/ defibrillator - Technimount, Bracket Pro Serie 60 – SD for the Hamilton-T1 ventilator - Technimount, Bracket Pro Serie 112 for the Cardiohelp System compact cardiopulmonary support system - Fixed, 3-pump bracket for the B. Braun, Infusomat Space and Perfusor Space infusion pumps - Fixed, 3-pump bracket for the Baxter, Spectrum infusion pumps - 13 in. (34 cm) and 32 in. (81 cm) push bars with carabiners for fluid bags - (6) outlet, medical grade power bar with surge protection, 7 ft cord and cable management

Dimensions (W X D X H)	- Mobile structure (w/o pump brackets and XTPA-PPXT Rail System) : 25.3 in. X 33.3 in. X 22.5 in. (64.3 cm X 84.6 cm X 57.2 cm) - XTPA-PPXT Rail System: 3.2 in. X 7.6 in. X 17.2 in. (8.1 cm X 19.3 cm X 43.7 cm) - Techni-IV pole (with harness): 3 in. X 16 in. X 3 in. (7.6 cm X 40.6 cm X 7.6 cm) - Fixed, 3-pump bracket for the B. Braun, Infusomat Space and Perfusor Space infusion pumps: 8 in. X 15 in. X 5.4 in. (20.3 cm X 38.1 cm X 13.7 cm) - Fixed, 3-pump bracket for the Baxter, Spectrum infusion pump: 18.6 in. X 8.1 in. X 4.3 in. (47.2 cm X 20.6 cm X 10.9 cm) - 32 in. (81 cm) push bar and XTPA-PPXT Push bar clamp block: 1.9 in. X 31.7 in. X 2.5 in. (4.8 cm X 80.5 cm X 6.4 cm) - 13 in. (34 cm) push bar: 1 in. X 13.2 in. X 1 in. (2.5 cm X 33.5 cm X 2.5 cm)
Weight	- Mobile structure (w/o pump brackets and XTPA-PPXT Rail System): 45.2 lb (20.5 kg) - XTPA-PPXT Rail System (XTPA-PPXT Clamp blocs and XTPA-PPXT Rails): 26.9 lb (12.3 kg) - XTPA-PPXT Rail clamp block: 13.3 lb (6 kg) - Techni-IV pole (w/o harness): 1.2 lb (0.5 kg) - Harness for the Techni-IV pole: 0.06 lb (0.03 kg) - Fixed, 3-pump bracket for the B. Braun, Infusomat Space and Perfusor Space infusion pumps: 4.8 lb (2.2 kg) - Fixed, 3-pump bracket for the Baxter, Spectrum infusion pump: 3.1 lb (1.4 kg) - 32 in. (81 cm) push bar and XTPA-PPXT Push bar clamp bloc: 4.27 lb (1.94 kg) - 13 in. (34 cm) push bar: 1.2 lb (0.5 kg)
Composition	- Mobile structure: aluminum, stainless steel and plastic - XTPA-PPXT Rail System: aluminum and stainless steel - XTPA-PPXT Rail clamp block: aluminum - 13 in. (34 cm) and 32 in. (81 cm) push bars: aluminum, plastic and stainless steel

Total Safe Working Load (SWL)	- Mobile structure: 103 lb (46.8 kg)
	  - Techni-IV pole and harness (approved for ambulance transport): 1.5 L or 1.5 kg (50 fl oz or 3.3 lb)
	  - 32 in. (81 cm) push bar: 2 L or 2 kg (67.63 fl oz or 4.4 lb)
	  - 13 in. (34 cm) push bar: 1 L or 1 kg (33.81 fl oz or 2.2 lb)

Operating Temperature	- 31° F to 113° F (- 35° C to 45° C)
Tested and Approved Cleaning Solutions	- Lavo 12, 10 000 ppm Sodium Hypochlorite - TNT-100, 5% Quaternary Ammonium Compound - Spectro-Sept, 5% Ethyl Alcohol - Spectrol, 5% EDTA salt

Options	- Technimount, Techni-IV pole and harness approved for ambulance transport - Additional, (6) outlet, medical grade power bar with surge protection, 7 ft cord and cable management (2 power bars total)

4. Xtension Pro Assistant – CCT/ECMO Orientation Diagrams

NOTE : The orientations referenced herein are from the stretcher standpoint.

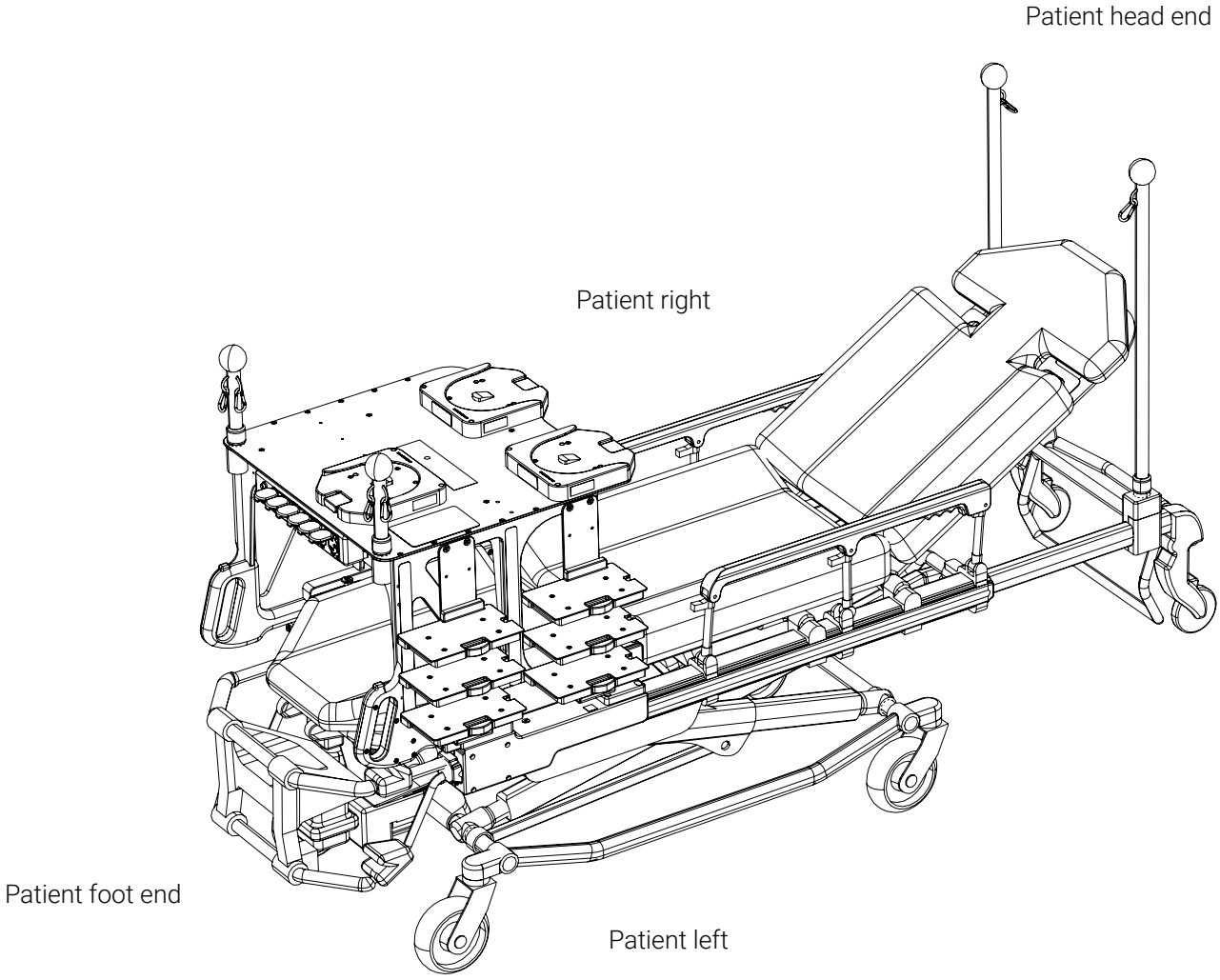
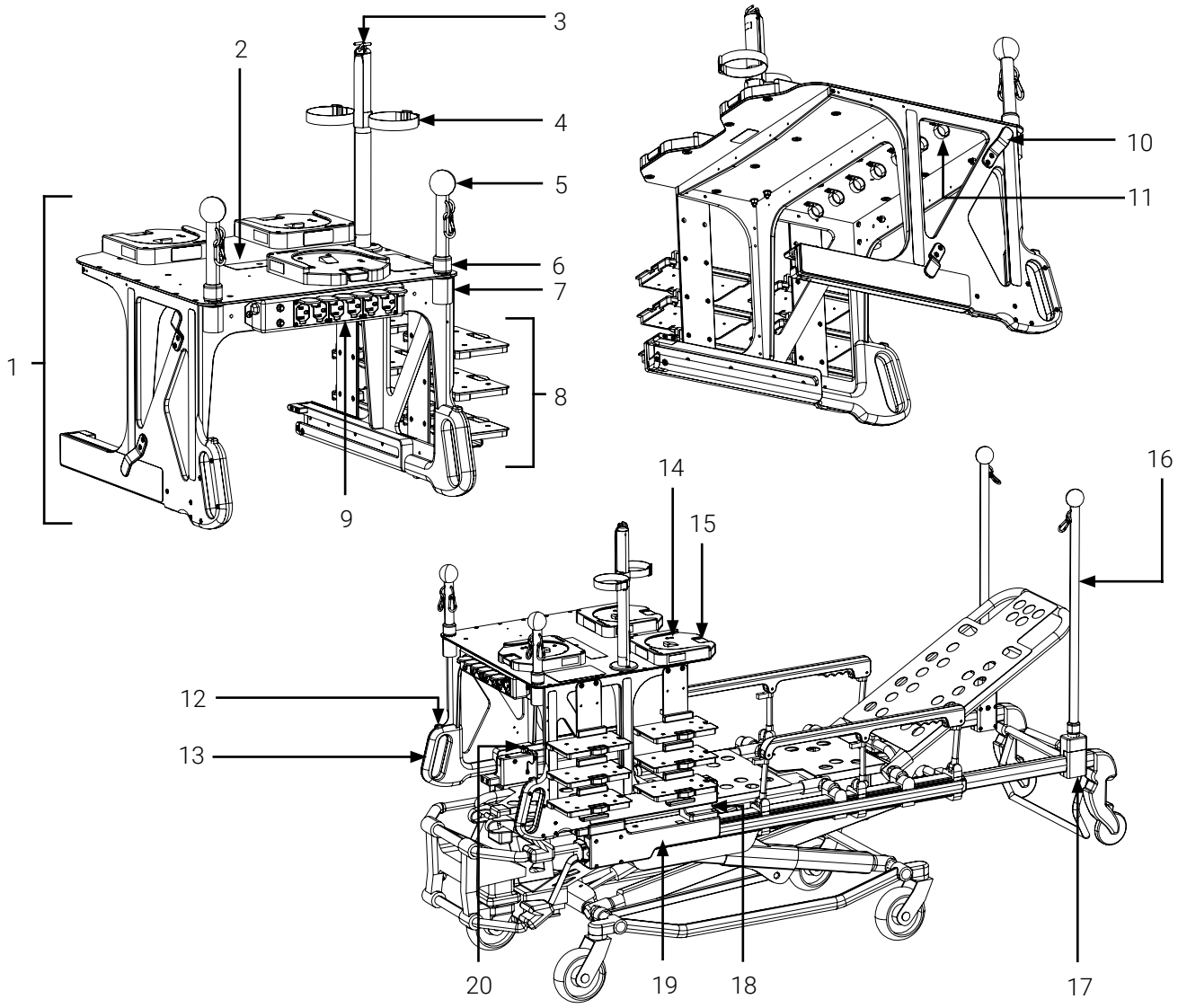


Figure 3: Orientation diagram of the Xtension Pro Assistant – CCT/ECMO

5. Xtension Pro Assistant – CCT/ECMO Illustrated Parts



1. Mobile structure	11. Cable management system
2. Top plate	12. Quick release button (handles; 2X)
3. Techni-IV pole	13. Handle (2X)
4. Harness	14. Standard Surface Base (3X)
5. 13 in. (34 cm) push bar with carabiner for fluid bags (2X)	15. Quick release button (bases; 3X)
6. Collar (4X)	16. 32 in. (81 cm) push bar with carabiner for fluid bags (2X)
7. Push bar holder (2X)	17. XTPA-PPXT Push bar clamp block (2X)
8. Fixed, infusion pump bracket (2X)	18. XTPA-PPXT Rail (2X)
9. Power bar	19. XTPA-PPXT Rail clamp block (2X)
10. Power cord holder (2X)	20. Lock pin (2X)

Figure 4: Components of the Xtension Pro Assistant – CCT/ECMO

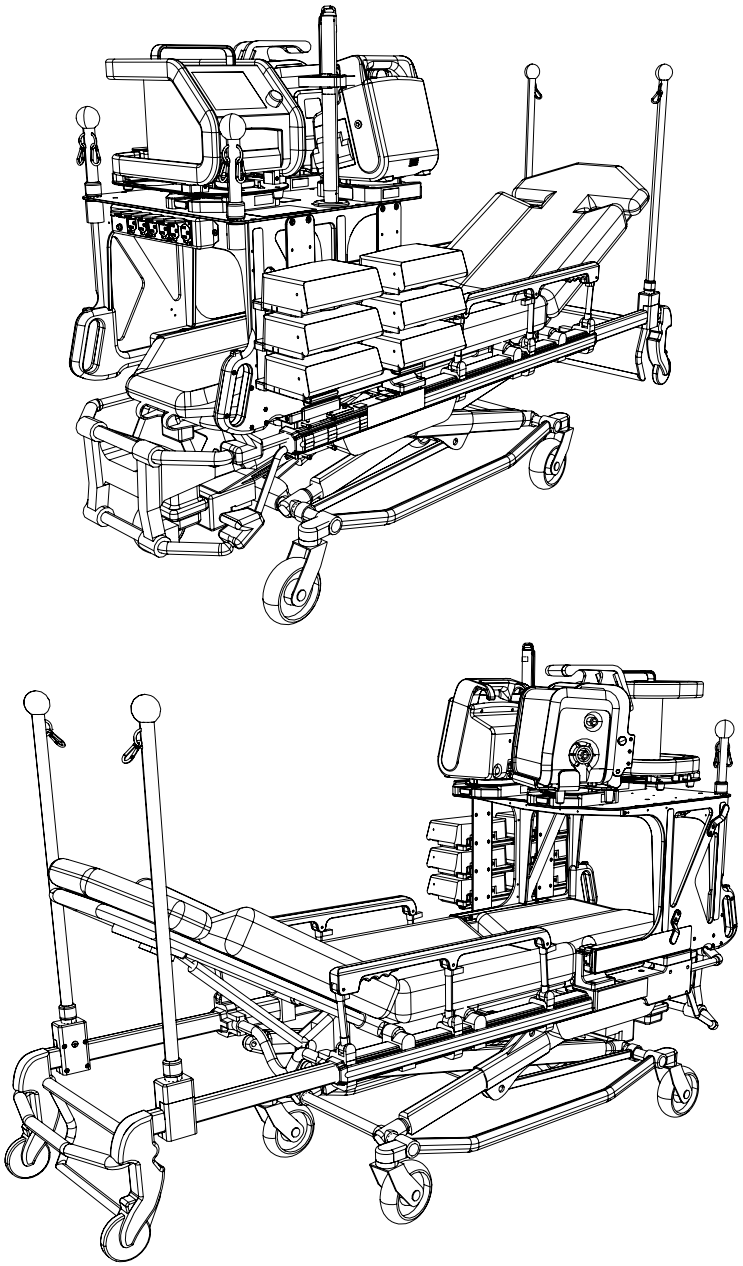


Figure 5: Xtension Pro Assistant – CCT/ECMO with medical devices/accessories (suggested configuration)

6. Operate the Xtension Pro Assistant – CCT/ECMO

The content in this section is intended for EMS and clinical personnel who are proficient, have received the required training and passed the skills assessment, therefore sufficiently knowledgeable to safely operate the mounting system.

6.1. Patient Lateral Transfer

NOTE : The following steps can be done before or after the installation of the medical devices. Please refer to your established internal protocols for the patient lateral transfer (hereinafter referred to as lateral transfer), when using this system.

1. Ensure the lock pins on the mobile structure are correctly inserted on both sides, prior to installing the medical devices or performing a lateral transfer (Figure 6).

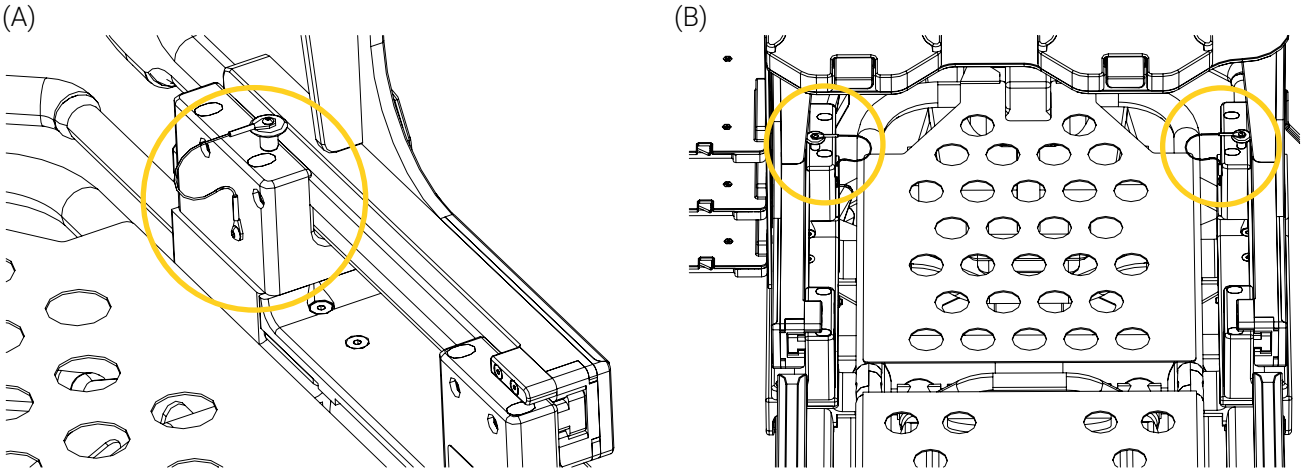


Figure 6: Lock pins

2. Position the stretcher on patient left to prepare for the lateral transfer (Figure 7).
3. Lift the stretcher parallel to the bed using the mechanism (Figure 7). Refer to the stretcher user documentation for proper use and recommendations if needed.
4. Straighten the stretcher wheels, ensuring that the longer side of the wheel is facing patient foot end (Figure 7), then apply the brakes.

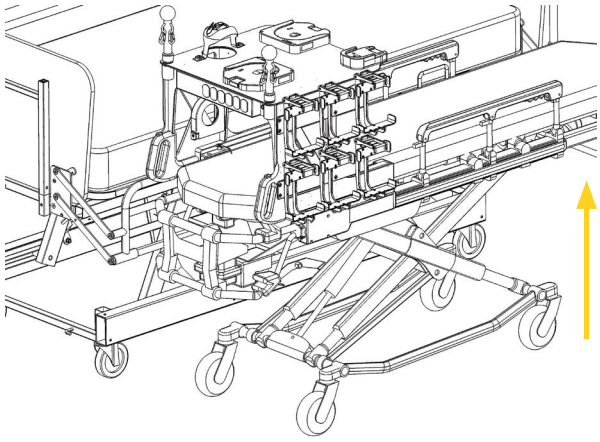


Figure 7: Stretcher position for lateral transfer

5. Locate the push bar situated between the bed and the stretcher at the patient head end, then rotate the collar of the XTPA-PPXT Push bar clamp block counterclockwise about a quarter of a turn to loosen (Figure 8 A).
6. Pull the push bar upwards, while gently rotating the bar to remove it (Figure 8 B). Set aside the push bar temporarily.

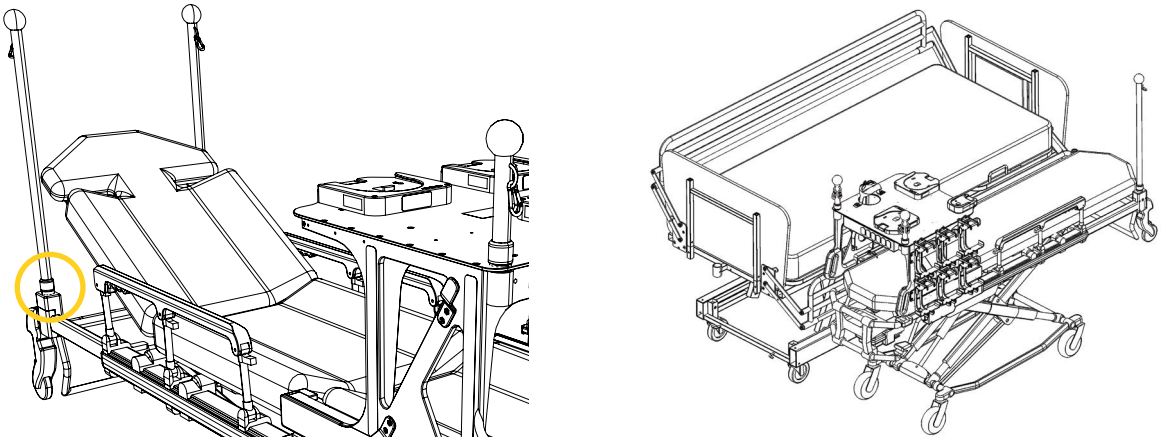
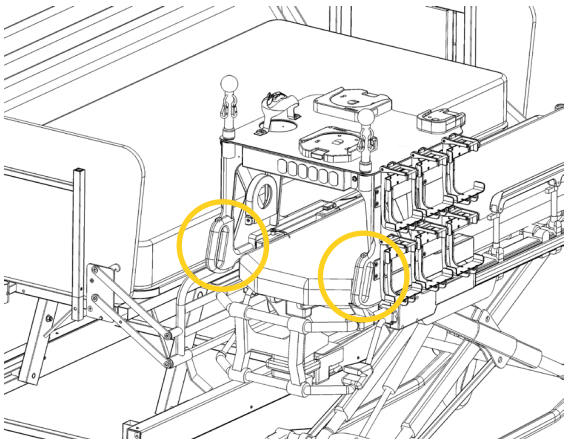


Figure 8: Removing the push bar at patient head end

7. Grab the mobile structure handles, then press and hold the quick release mechanisms (Figure 9 A).
8. Pull the mobile structure towards the patient foot end until you have reached the lock pins (Figure 9 B).

(A)



(B)

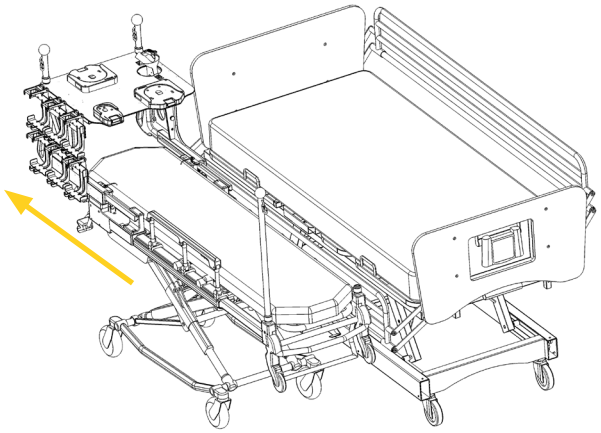


Figure 9: Mobile structure position before lateral transfer

9. Transfer the patient.
10. Once the lateral transfer is complete, grab the mobile structure handles, then push the mobile structure towards the patient head end until it locks (Figure 10).

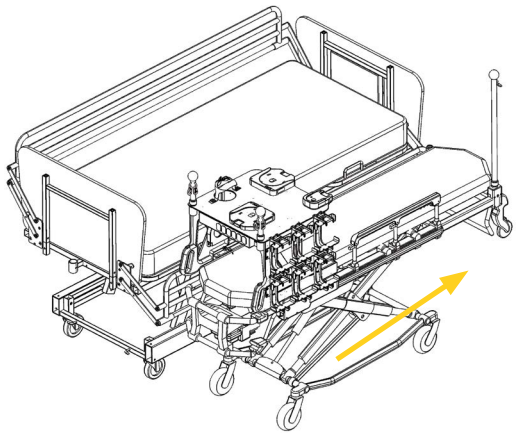


Figure 10: Mobile structure position after lateral transfer

11. Reinstall the push bar by inserting its tapered end in the XTPA-PPXT Push bar clamp block.
12. Rotate the collar about a quarter of a turn clockwise to tighten and secure the push bar.
13. Move the push bar back and forth a few times to ensure the collar is tight enough and that the push bar is secured. If the bar does not move after the verification, it is properly secured.

The patient lateral transfer is complete.

6.2. Install a Medical Device on the Mobile Structure

1. Ensure that the stretcher is at the lowest height possible, the wheels are straight with the longer side of the wheel facing the foot end and the brakes have been applied.
2. Ensure that mobile structure is pulled all the way in towards the patient foot end, and locked.
3. Align and insert the standard bottom disc located under the mounting bracket of the medical device horizontally in the Standard Surface Base, on the top plate of the mobile structure until it is locked (Figure 11).

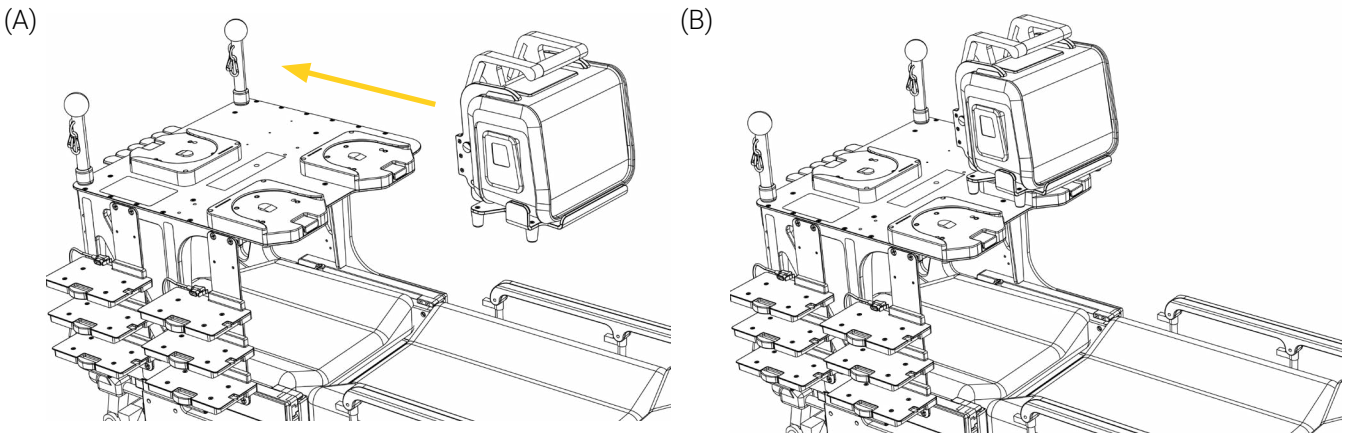


Figure 11: Installing the medical device on the mobile structure

4. Move the medical device back and forth a few times to ensure that the mounting bracket is locked securely in the Standard Surface Base.
5. Turn the medical device up to 360° clockwise or counterclockwise (Figure 12), to the desired position.

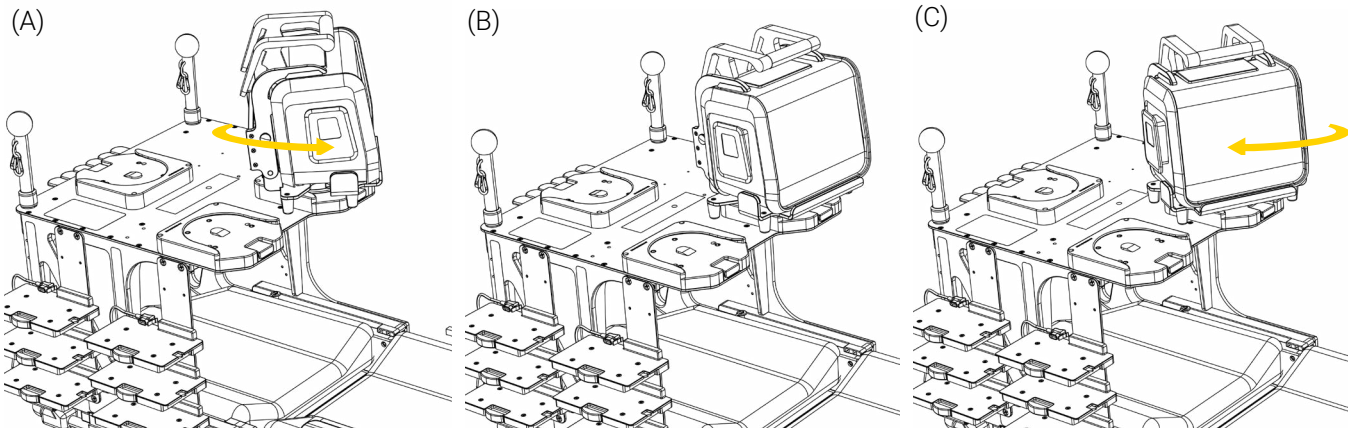


Figure 12: Rotating the medical device

The installation of the medical device on the mobile structure is complete.

6.3. Remove a Medical Device from the Mobile Structure

1. Press and hold the quick release button of the Standard Surface Base (Figure 13 A), then pull the medical device horizontally out of the base using the handle (Figure 13 B).

(A) (B)

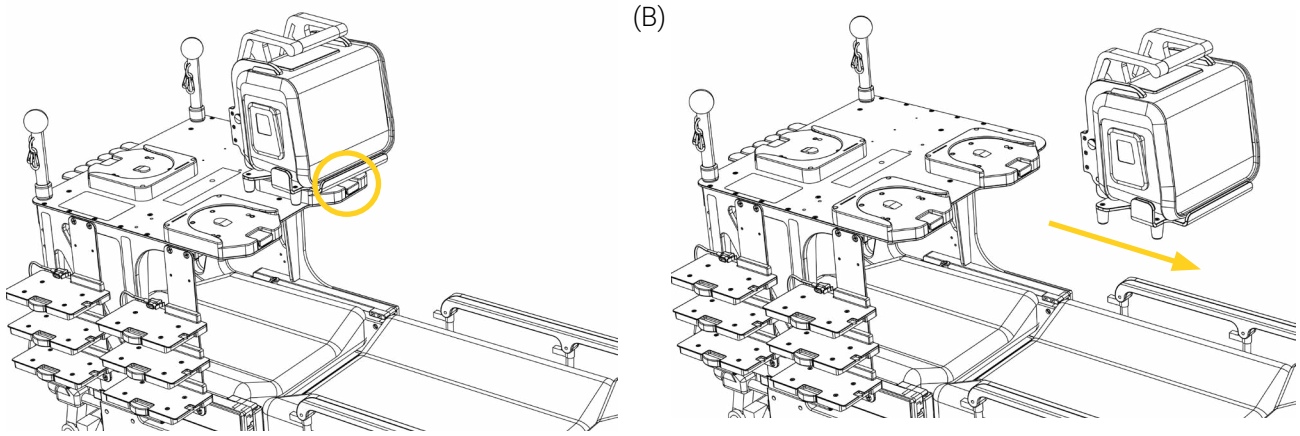


Figure 13: Removing the medical device from the mobile structure

2. Set aside the medical device on a flat and clean surface or, store it in its dedicated storage space. Refer to your established internal protocols if needed.

The removal of the medical device from the mobile structure is complete.

6.4. Install a Baxter Infusion Pump in the Pump Bracket

NOTE : Up to six (6) Baxter infusion pumps can be installed on the mounting bracket.

1. Pull the quick release mechanism on the pump bracket forward (Figure 14 A), then lift the top part of the bracket to open it (Figure 14 B).

(A) (B)

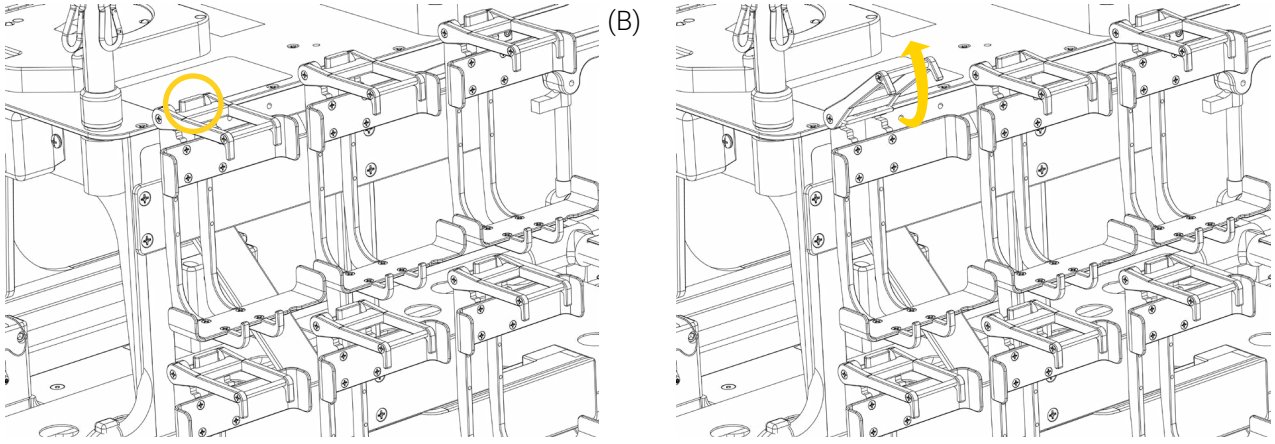


Figure 14: Opening the pump bracket

2. Insert the pump at an angle in the bracket (Figure 15 A).
3. Tilt the pump in an upright position, ensuring that it is centered inside the bracket (Figure 15 B)
4. Lower the top part of the bracket over the pump, then press down on the top until the locking mechanism of the bracket is engaged (Figure 15 C).
5. Move the pump up and down a few times to ensure it is locked and secured in the bracket.

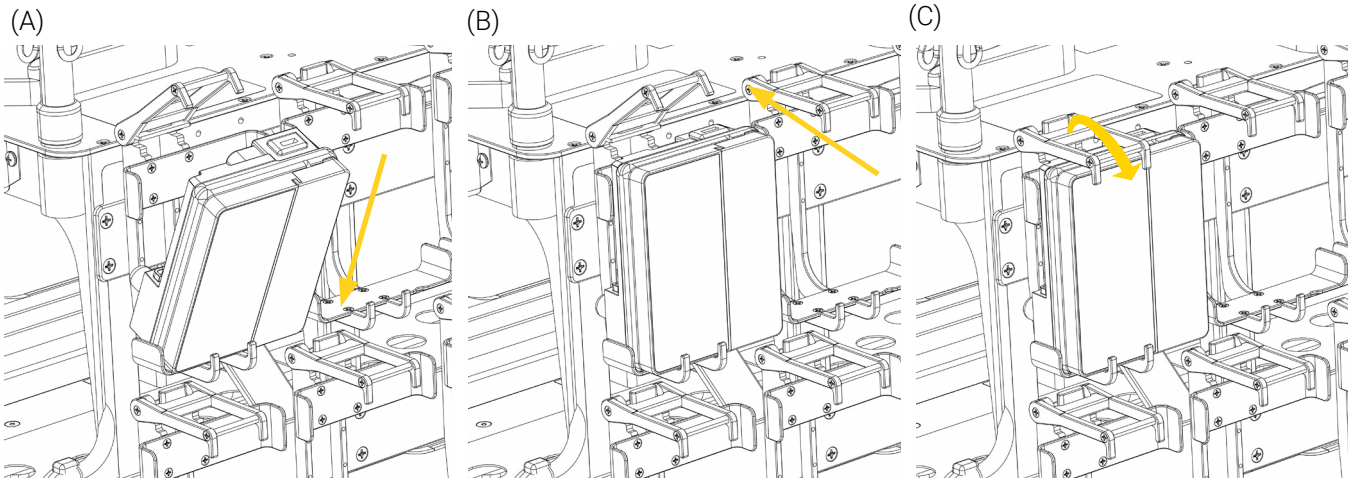


Figure 15: Installing the Baxter infusion pump

6. Repeat steps 1 to 5 to install more pumps if needed.

The installation of a Baxter infusion pump in the pump bracket is complete.

6.5. Remove the Baxter Infusion Pump from the Pump Bracket

1. Pull the quick release mechanism on the pump bracket forward (Figure 16 A), then lift the top part of the bracket to open it (Figure 16 B).
2. Tilt the pump forward, then pull out the pump to remove it (Figure 16 C). Set the pump aside.

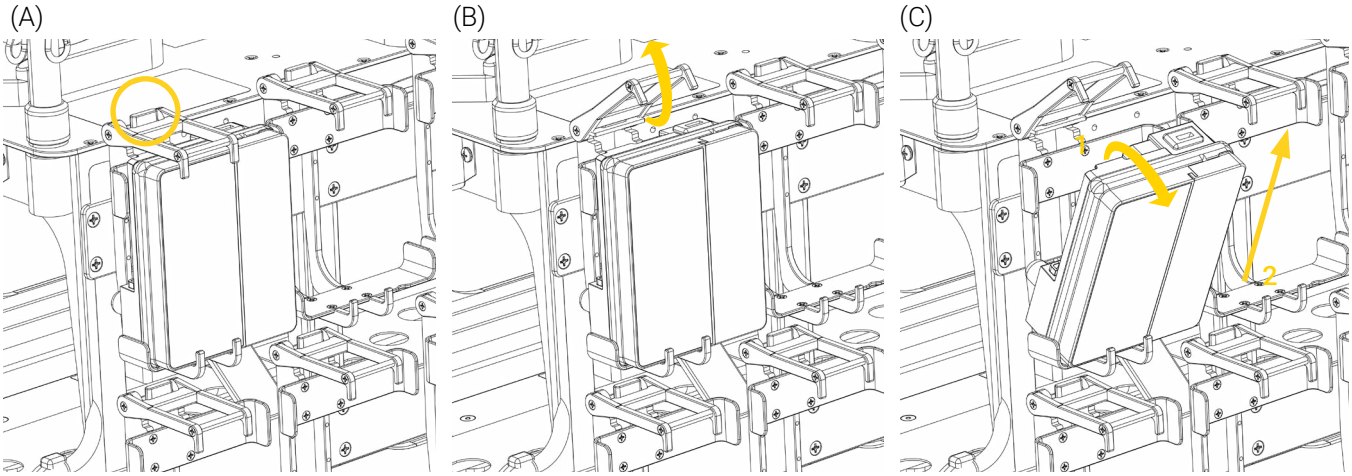


Figure 16: Removing the infusion pump

3. Repeat steps 1 and 2 to remove the remaining pumps if needed.

The removal of the Baxter infusion pump from the pump bracket is complete.

6.6. Install a B. Braun Infusion Pumps on the Pump Bracket

NOTE : Up to six (6) Baxter infusion pumps can be installed on the mounting bracket.

1. Connect the power cord at the back of the pump (Figure 17). Refer to the pump manufacturer user documentation for proper use and recommendations of the pump and its power cord if needed.

Figure 17: Connecting the infusion pump (back of the Infusomat Space infusion pump illustrated)

2. Locate the two (2) bottom grooves under the pump (Figure 18).

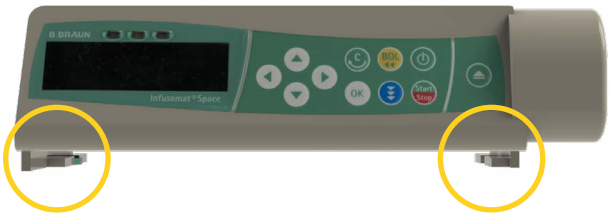


Figure 18: Bottom grooves (front of the Infusomat Space infusion pump illustrated)

3. Align and insert the bottom grooves in the pump bracket, then push the pump until the locking mechanism of the bracket is engaged (Figure 19), being careful not to wedge the power cord.

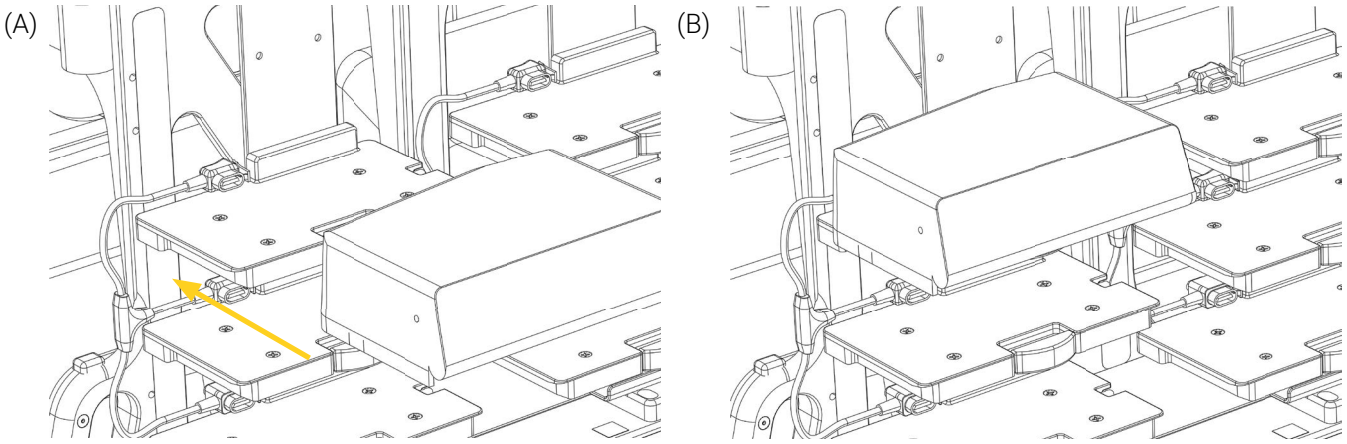


Figure 19: Installing the infusion pump

4. Move the pump back and forth a few times to ensure it is locked and secured in the bracket and connected at the back.
5. Repeat the steps 1 to 4 to install the remaining pumps if needed.

The installation of the B. Braun infusion pumps in the pump bracket is complete.

6.7. Remove the B. Braun Infusion Pumps from the Pump Bracket

1. Holding both sides of the pump, use your thumb to press and hold the quick release button located at the front of the bracket to disengage the pump (Figure 20 A).
2. Pull and slide the pump outwards to remove it from the pump bracket (Figure 20 B). Set the pumps aside.

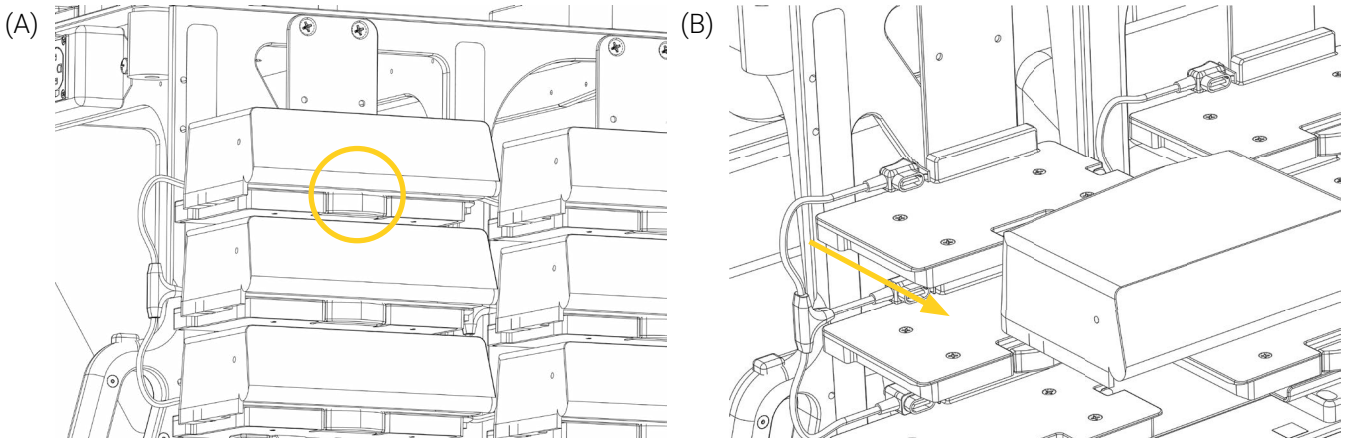


Figure 20: Removing the infusion pump

3. Disconnect the power cord from the pump (Figure 21).

Figure 21: Disconnecting the infusion pump

4. Repeat steps 1 to 3 to remove the remaining pumps if needed.

The removal of the B. Braun infusion pumps from the pump bracket is complete.

Annex I Skills Assessment of the Clinical Staff

Following training, a skills assessment should be given to each member of the EMS and clinical personnel to ensure they have fully comprehended the labelling, warnings and cautions, potential risks, safe practices and proper operating procedures needed to safely and effectively use the mounting system. Consider adding the following to your internal training protocols.

Trainee name: Unit:

Assessor name: Date:

EMS AND CLINICAL PERSONNEL SKILLS ASSESSMENT		
SKILL CRITERIA	PASSED	FAILED
Labelling		
- Able to identify meaning and potential risks associated with the different safety labels:		
- Hand Crush/Pinch Point.	☐	☐
- Safe Working Load (SWL)	☐	☐
- Transport in a Low Position	☐	☐
- Follow Instructions for Use	☐	☐
- Risk of Injury	☐	☐
Safety Measures		
- Knows to always transport the stretcher at the lowest possible height, as per the manufacturer recommendations.	☐	☐
- Knows to keep hands and fingers away from the XTPA-PPXT Rail System during the installation and the removal of the mobile structure, and/or away from the braking system when adjusting the height of the stretcher and/or moving the mounting system.	☐	☐
- Knows **not to** move the stretcher when the mobile structure is in the extended position.	☐	☐
- Knows to always use the mounting system as it was intended, using only the compatible mounting brackets and medical devices.	☐	☐
- Knows to always pay close attention to the condition of the safety mechanisms and to follow the recommended maintenance plan and its guidelines, as described in the user manual.	☐	☐
- Knows to always ensure that the Xtension Pro Assistant – CCT/ECMO is secured in the XTPA-PPXT Rail System before moving the stretcher and during transport.	☐	☐
- Knows to always ensure that the lock pins are installed before moving the stretcher and during transport, and that they should only be removed to insert and remove the mobile structure.	☐	☐

EMS AND CLINICAL PERSONNEL SKILLS ASSESSMENT		
SKILL CRITERIA	PASSED	FAILED
- Knows to always ensure that the medical devices are secured in the mounting brackets and that the locking mechanisms are properly engaged before moving the stretcher and during transport.	☐	☐
- Knows to always use the push bars or integrated handle on the mobile structure at patient foot end (depending on your configuration), or the push bars on the stretcher at patient head to move the mounting system.	☐	☐
- Knows to always pay close attention not to wedge the power cords or tubing during the installation or the removal of the medical devices and/or accessories, and the installation and removal of the infusion pumps.	☐	☐
- Knows **not to** overload the mounting system and its components.	☐	☐
- Knows that two (2) trained EMS and clinical personnel are required to move the mounting system.	☐	☐
- Knows to refer to the user documentation of the medical devices and accessories used with the mounting system for the safety guidelines and user instructions.	☐	☐
Operation		
- Able to perform patient lateral transfers.	☐	☐
- Able to install/remove a medical device on/from the mobile structure.	☐	☐
- Able to install/remove the infusion pump(s) in/from the pump bracket(s), if applicable.	☐	☐
- Has practiced safely operating the mounting system, has perfected the manipulations and has acquired the required skill level to safely use with patient.	☐	☐

Annex II Unpack the Xtension Pro Assistant – CCT/ECMO

Unpacking should be reserved for biomedical technicians (or equivalent) who have extensive mechanical experience, and advanced skill level.

1. Inspect the shipping box(es) for signs of damage before accepting shipment. Take pictures and report them promptly if applicable.
2. Move the shipping box(es) to the location of the installation.
3. Open the shipping box(es).
4. Unpack the box(es) and ensure that all shipping and packaging materials have been properly removed, prior to installation.

   NOTE : Keep all packaging material for future use.
5. Identify all the components and hardware included for the installation if applicable, then set them aside. Refer to « Install the Xtension Pro Assistant – CCT/ECMO » section on page 33 for the required parts.
6. Inspect the items for signs of damage. Take pictures and report them promptly if applicable.

Annex III Install the Xtension Pro Assistant – CCT/ECMO

The content in this section is intended for biomedical technicians (or equivalent) who have extensive mechanical experience, and advanced skill level and have read the « Safety Measures » section on page 12.

Required Installation Time

120 minutes

NOTE : This estimation will vary depending on the biomedical's (or equivalent) proficiency, knowledgeabilty, as well as your product configuration. Subsequent installations and adjustments should take sensibly the same time, or shorter.

Required Tools

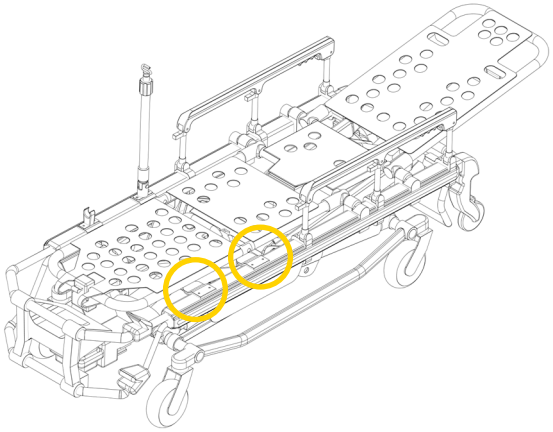
- $^{3}/_{16}$ in. hex key
- $^{5}/_{32}$ in. hex key
- Phillips screwdriver #2
- Torx screwdriver T27
- Punch
- Mallet

Prepare the Stretcher

NOTE : Refer to your established internal protocols and the stretcher user documentation for the safety guidelines, safe use and recommendations if needed.

1. Remove all the devices and/or accessories from the stretcher.
2. Remove the mattress from the stretcher to facilitate the installation.
3. Remove the four (4) screws on the lateral frame of the stretcher, patient left (Figure 22 A). The screws will not be reused for this specific installation.
4. Remove the IV pole and its holder (Figure 22 B). They will not be reused for this specific installation.

(A)



(B)

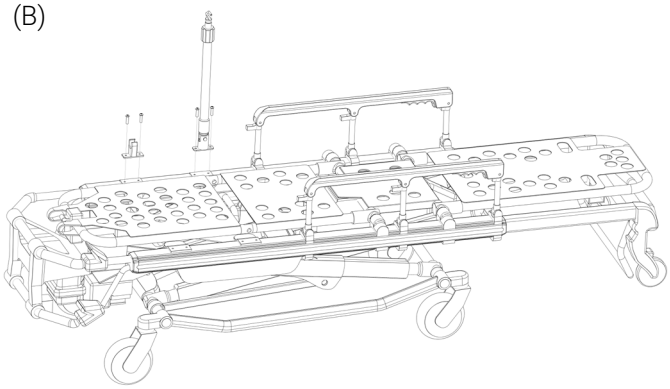


Figure 22: Preparing the stretcher

5. Identify the Power-LOAD foot end fastener assembly (herein after referred to as Power-LOAD system) located under the stretcher, at the patient foot end (Figure 23).
6. Remove the four (4) screws, four (4) washers and two (2) spacers to loosen the Power-LOAD system (Figure 23). Set aside the Power-LOAD system and its hardware temporarily. The stretcher spacers will not be reused for this specific installation.

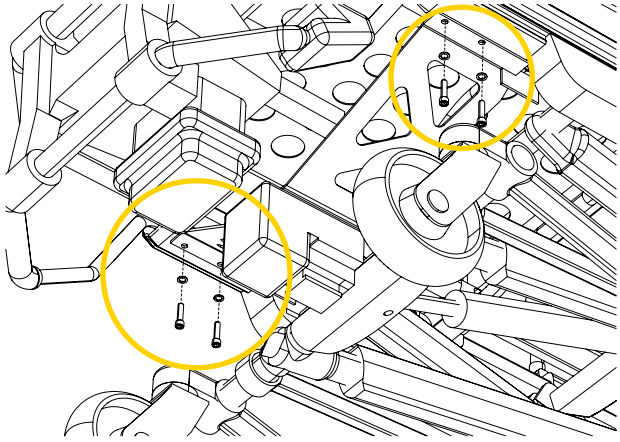


Figure 23: Removing the Power-LOAD system screws

7. Loosen the nuts on either side of the Power-LOAD system just enough to allow space for the subsequent installation of the XTPA-PPXT Rail clamp blocks (Figure 24).

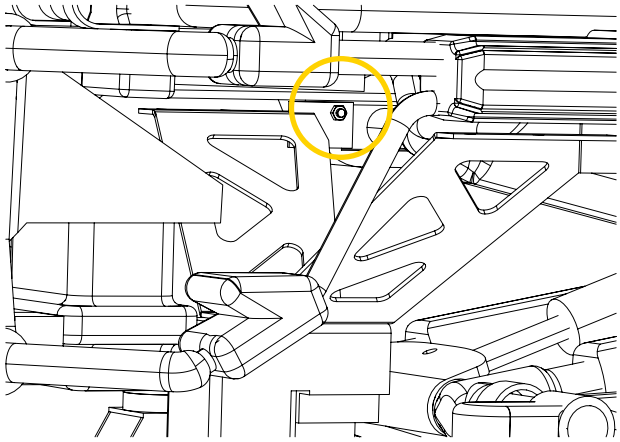


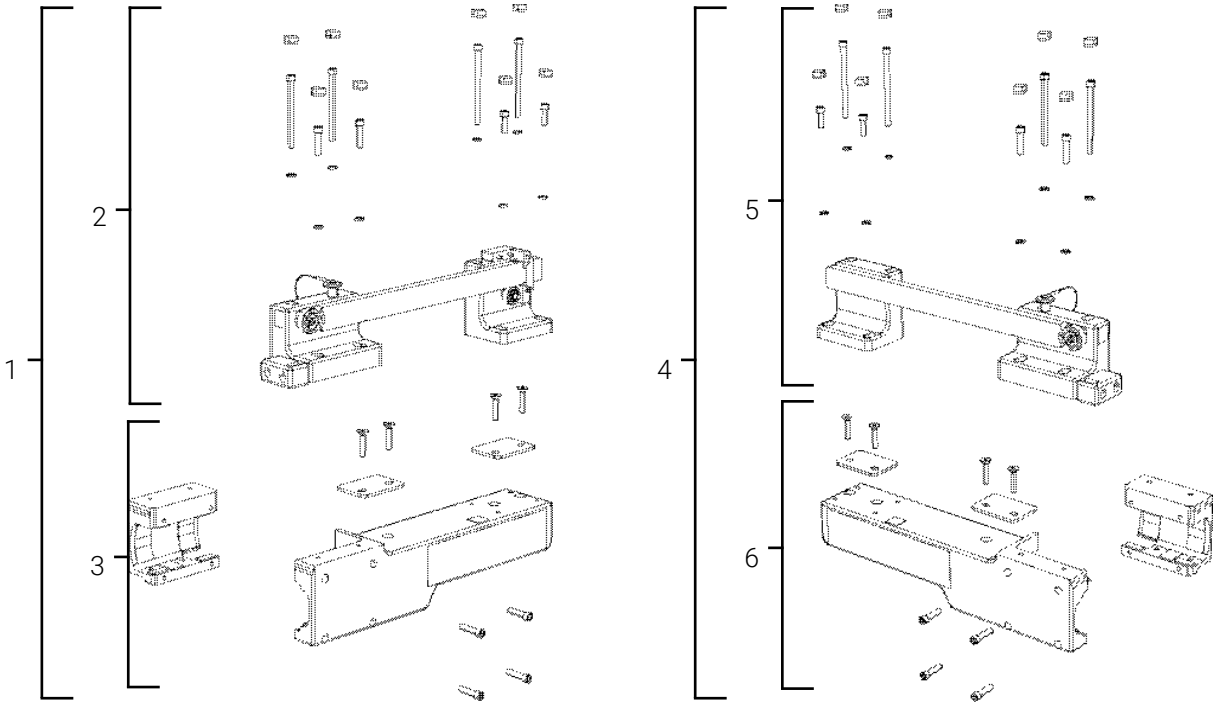
Figure 24: Loosening the Power-LOAD system (1 of 2 nuts shown)

The preparation of the stretcher is complete.

Install the XTPA-PPXT Rail System

Identify the parts required for the assembly and installation of the XTPA-PPXT Rail Systems (Figure 25).

NOTE : The XTPA-PPXT Rail System is packaged into two (2) sub-assemblies (1630-11-PFXT-LFS and 1630-11-PFXT-RHS). Each sub-assembly contains one (1) XTPA-PPXT Rail clamp block, one (1) XTPA-PPXT Rail and hardware. Ensure to install the rail clamp block and rail included in sub-assembly 1630-11-PFXT-LFS on patient left, and the rail clamp block and rail included in sub-assembly 1630-11-PFXT-RHS on patient right.

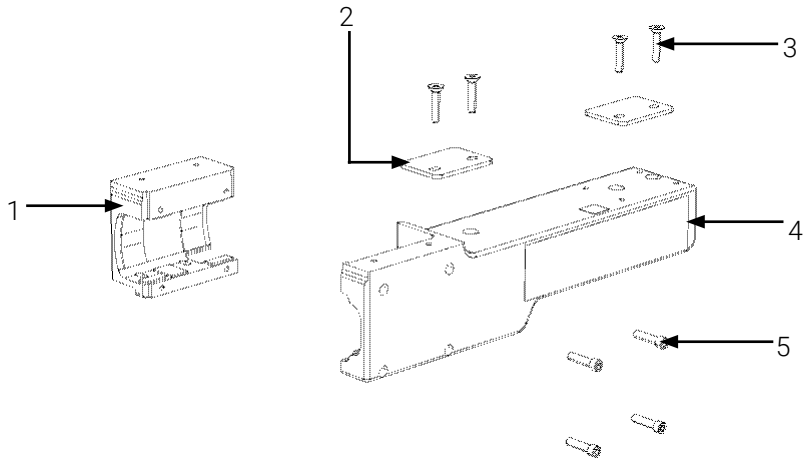


1. XTPA-PPXT Rail System assembly parts, patient left
2. XTPA-PPXT Rail sub-assembly parts, patient left
3. XTPA-PPXT Rail clamp block sub-assembly parts, patient left
4. XTPA-PPXT Rail System assembly parts, patient right
5. XTPA-PPXT Rail sub-assembly parts, patient right
6. XTPA-PPXT Rail clamp block sub-assembly parts, patient right

Figure 25: XTPA-PPXT Rail System assembly parts (illustrated as packaged)

Install the XTPA-PPXT Rail clamp blocks on the Lateral Frames of the Stretcher

1. Identify the parts included in the XTPA-PPXT Rail clamp block sub-assembly 1630-11-PFXT-LFS (Figure 26); the rail clamp block will be installed on patient left.

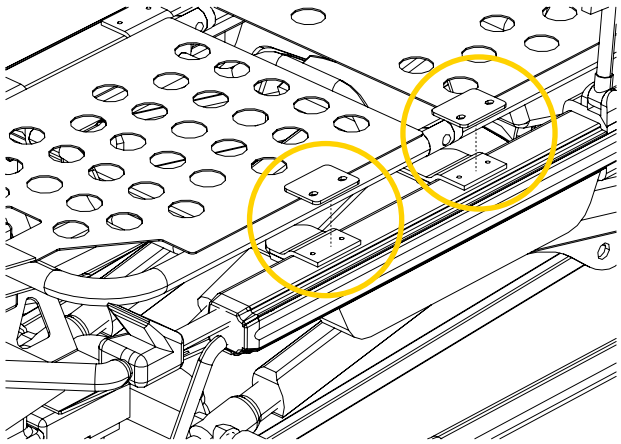


1. Interior part of the XTPA-PPXT Rail clamp block
2. Spacer (2X)
3. ¼ - 20 x 1 ¼ in. flat head hex drive screw (4X)
4. Exterior part of the XTPA-PPXT Rail clamp block
5. ¼ - 20 x 1 in. socket head screw (4X)

Figure 26: XTPA-PPXT Rail clamp block sub-assembly parts (patient left shown here)

2. Place two (2) spacers on top of the stretcher frame (Figure 27 A), followed by the exterior part of the XTPA-PPXT Rail clamp block on the outer frame (Figure 27 B), aligning the screw holes.

(A)



(B)

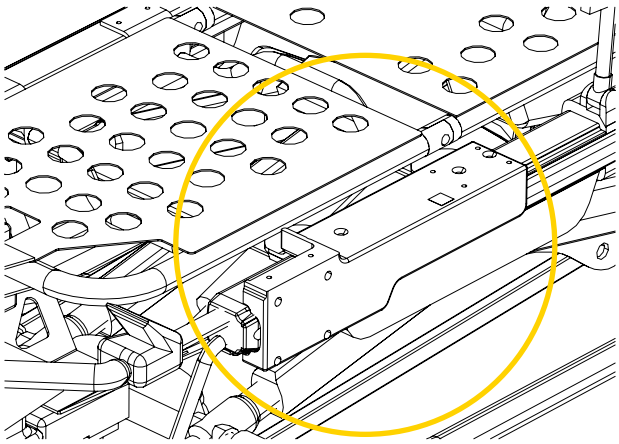


Figure 27: Placement of the spacers and exterior part of the XTPA-PPXT Rail clamp block

3. Partially tighten the exterior part of the rail clamp block using four (4) ¼ - 20 x 1 ¼ in. flat head hex drive screws and a 5/32 in. hex key (Figure 28).

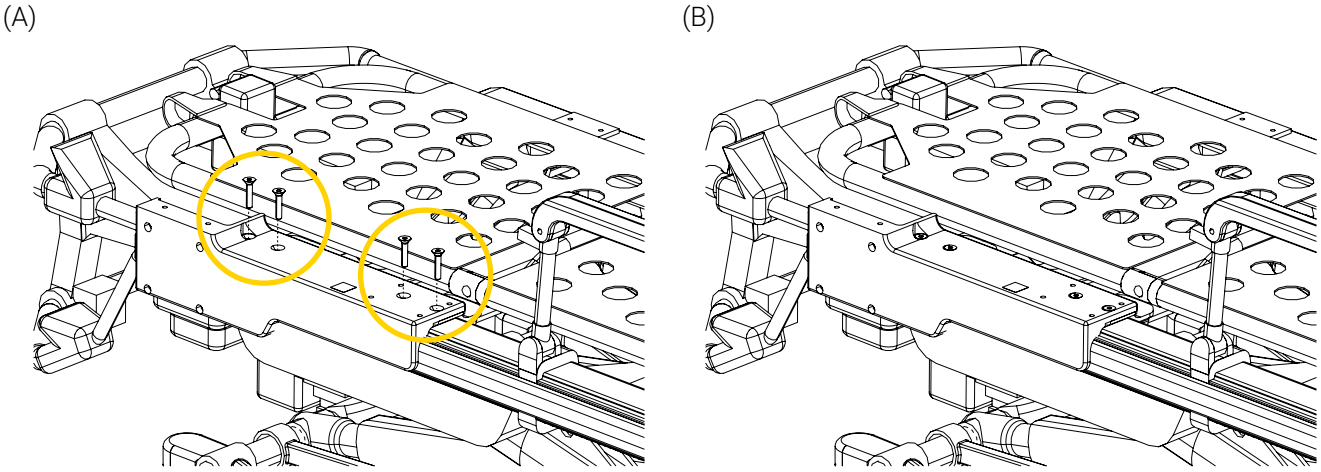
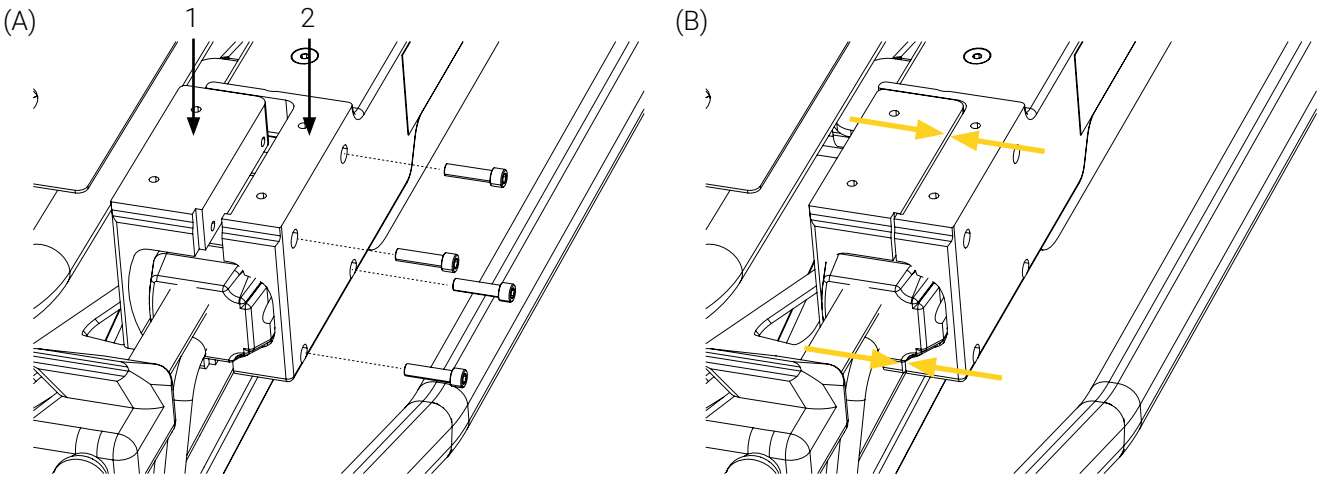


Figure 28: Installing the exterior part of the XTPA-PPXT Rail clamp block

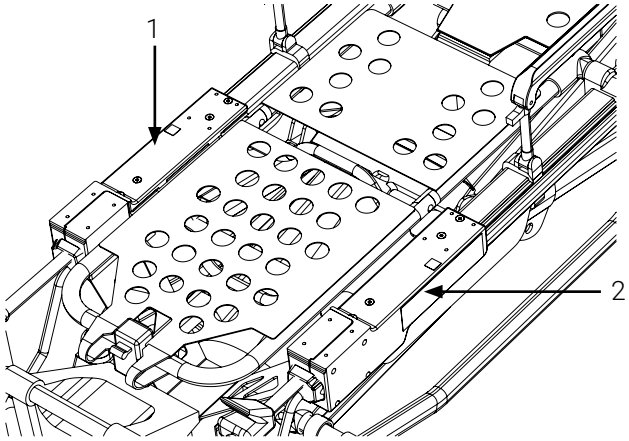
4. Place the interior part of the XTPA-PPXT Rail clamp block on the inner frame (Figure 29 A).
5. Partially tighten the interior part of the rail clamp block using four (4) ¼ - 20 x 1 in. socket head screws and a 3/16 in. hex key, while alternating screw heads (Figure 29 A).
6. Ensure that there are no gaps between the interior and exterior parts of the XTPA-PPXT Rail clamp block and that they are evenly pressed against each other (Figure 29 B).



1. Interior part of the XTPA-PPXT Rail clamp block
2. Exterior part of the XTPA-PPXT Rail clamp block

Figure 29: Installing the interior part of the XTPA-PPXT Rail clamp block

7. Move the XTPA-PPXT Rail clamp block back and forth a few times to ensure it is secured on the stretcher frame. If the rail clamp block does not move after the verification, it is properly secured.
8. Repeat steps 2 to 7 on patient right, using the XTPA-PPXT Rail clamp block included in sub-assembly 1630-11-PFXT-RHS (Figure 30).



1. XTPA-PPXT Rail clamp block installed patient right (1630-11-PFXT-RHS)	2. XTPA-PPXT Rail clamp block installed patient left (1630-11-PFXT-LFS)

Figure 30: XTPA-PPXT Rail clamp blocks installed

9. Reinstall and partially tighten the Power-LOAD system reusing the four (4) screws and the four (4) washers (Figure 31). Refer to the stretcher user documentation for the safety guidelines, safe use and recommendations if needed.

NOTE : Do not reinstall the two (2) Power-LOAD system stretcher spacers.

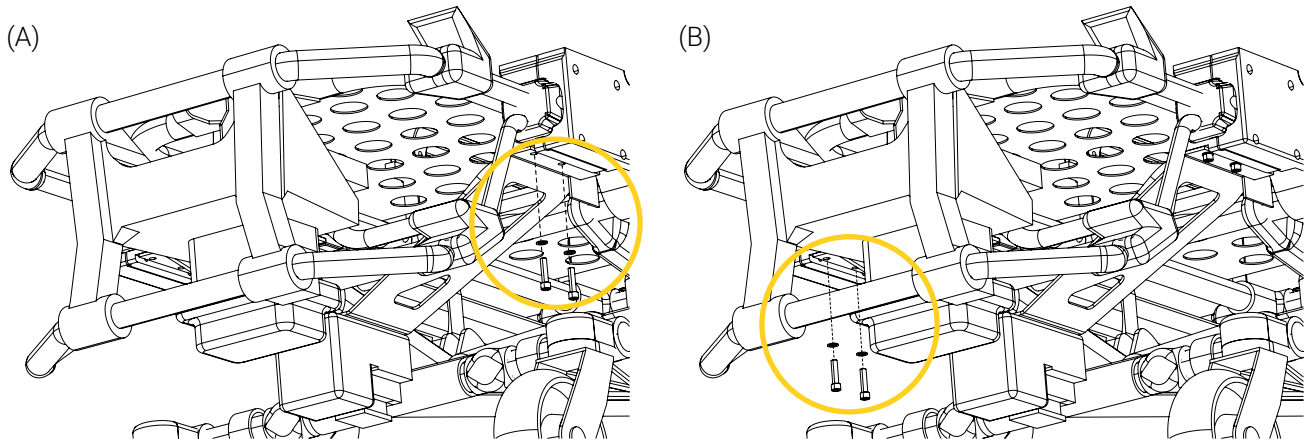


Figure 31: Reinstalling the Power-LOAD system

10. Tighten the four (4) ¼ - 20 x 1 ¼ in. flat head hex drive screws on the top surface of each XTPA-PPXT Rail clamp block using a 5/32 in. hex key (Figure 28).
11. Tighten the four (4) ¼ - 20 x 1 in. socket head screws on the external surface of the exterior part of each XTPA-PPXT Rail clamp block using a 3/16 in. hex key, while alternating screw heads (Figure 29 A).
12. Tighten the four (4) partially tightened screws on each side of the Power-LOAD system (Figure 32 A).
13. Tighten the two (2) previously loosened nuts on either side of the Power-LOAD system (Figure 32 B) if needed.

NOTE : Ensure that the Power-LOAD system is properly installed for loading in an ambulance. Refer to the stretcher user documentation for the safety guidelines, safe use and recommendations if needed.

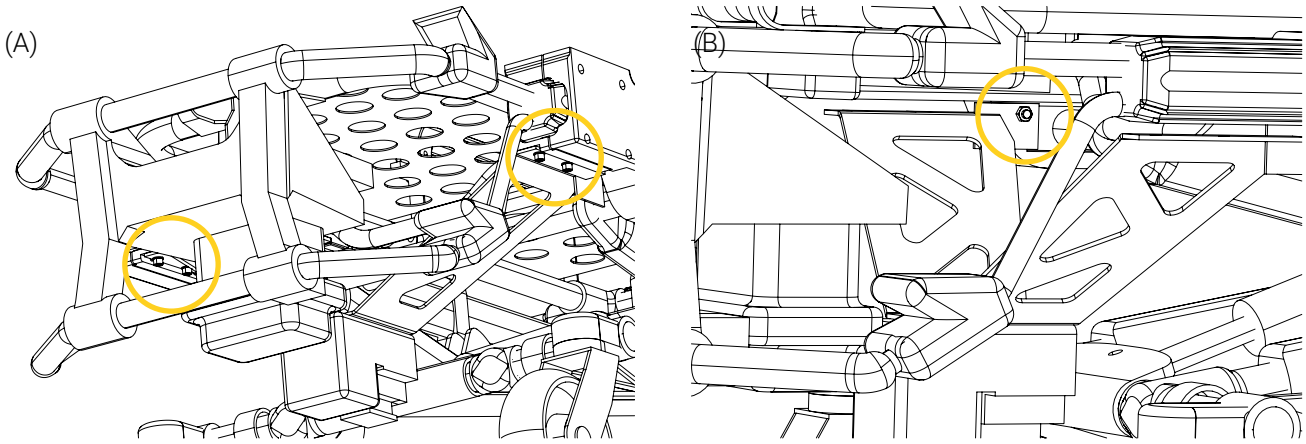
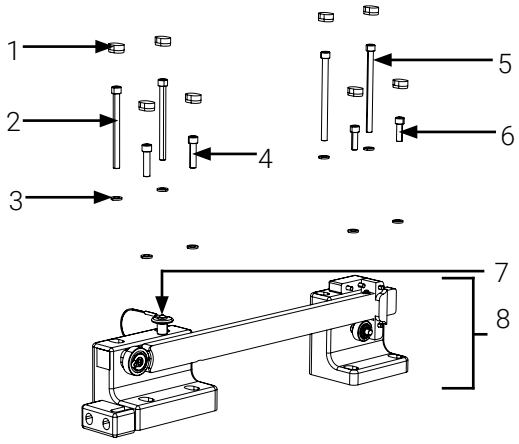


Figure 32: Power-LOAD system reinstalled

The installation of the XTPA-PPXT Rail clamp blocks on the lateral frame of the stretcher is complete.

Install the XTPA-PPXT Rails on the XTPA-PPXT Rail Clamp Blocks

1. Identify the parts included in the XTPA-PPXT Rail sub-assembly 1630-11-PFXT-LFS (Figure 33); the rail will be installed on patient left.



1. Cap (8X)	5. ¼ - 20 x 3.5 in. socket head screw (2X)
2. ¼ - 20 x 3 in. socket head screw (2X)	6. ¼ - 20 x ¾ in. socket head screw (2X)
3. Washer (8X)	7. Lock pin
4. ¼ - 20 x 1 in. socket head screw (2X)	8. XTPA-PPXT Rail

Figure 33: XTPA-PPXT Rail sub-assembly parts (installation for patient left illustrated)

2. Position the XTPA-PPXT Rail on the XTPA-PPXT Rail clamp block, ensuring that the screw holes are aligned and that the rail is facing outwards (Figure 34).

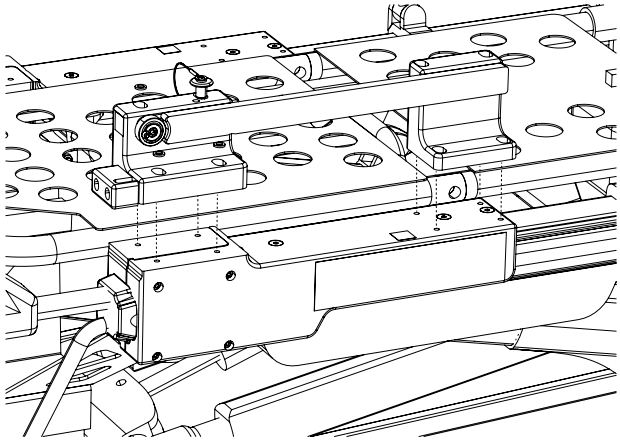


Figure 34: XTPA-PPXT Rail position on XTPA-PPXT Rail clamp block

3. Towards patient foot end of the rail (Figure 35 A), partially tighten:
   - Two (2) ¼ - 20 x 3 in. socket head screws with two (2) washers using a 3/16 in. hex key
   - Two (2) ¼ - 20 x 1 in. socket head screws with two (2) washers using a 3/16 in. hex key
4. Towards patient head end of the rail (Figure 35 B), partially tighten:
   - Two (2) ¼ - 20 x 3.5 in. socket head screws with two (2) washers using a 3/16 in. hex key
   - Two (2) ¼ - 20 x ¾ in. socket head screws with two (2) washers using a 3/16 in. hex key

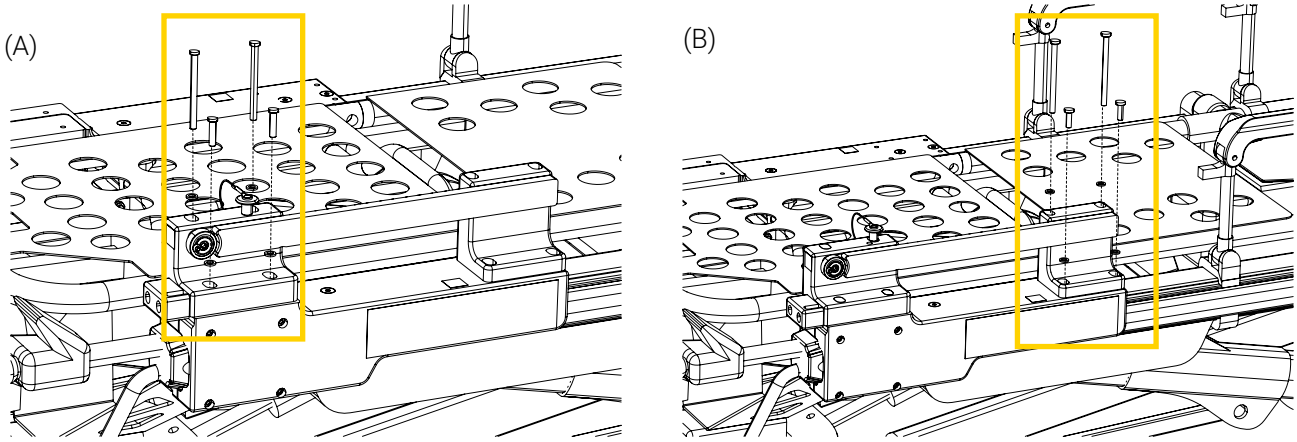


Figure 35: Installing the XTPA-PPXT Rail clamp block on the XTPA-PPXT Rail

5. Loosen the two (2) 10 - 32 x 1 in. socket head screw of the small block located at the front of the XTPA-PPXT Rail to adjust the alignment of the rail and rail clamp bloc using a 5/32 in. hex key (Figure 36) if needed.

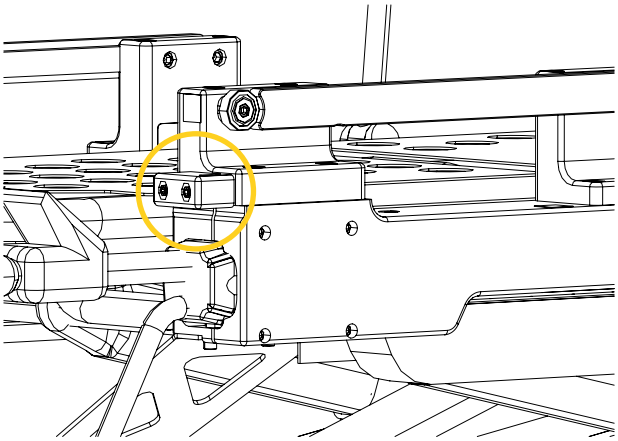


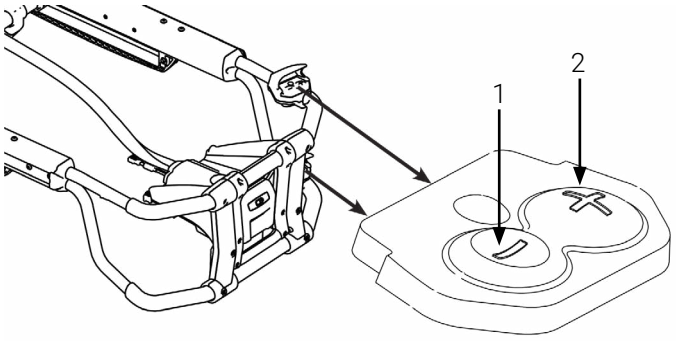
Figure 36: Adjusting the alignment of the rail and rail clamp bloc

6. Repeat steps 2 to 5 on patient right , using the XTPA-PPXT Rail included in sub-assembly 1630-11-PFXT-RHS.

The installation of the XTPA-PPXT Rails on the XTPA-PPXT Rail clamp blocks will be completed after step 23 on page 50, once all the screws have been tightened.

Install the Mobile Structure on the XTPA-PPXT Rail System

1. Adjust the height of the stretcher to a comfortable position to install the mobile structure using the mechanism (Figure 37). Refer to the stretcher user documentation for the safety guidelines, safe use and recommendations if needed.



1. Lower the stretcher
2. Raise the stretcher

Figure 37: Stretcher height adjustment mechanism

2. Identify the two (2) 13 in. (34 cm) push bars (Figure 38).

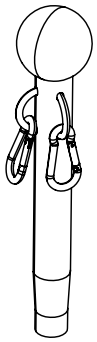


Figure 38: 13 in. (34 cm) push bar

3. Rotate one (1) of the two (2) collars on the mobile structure top plate about a quarter of a turn counterclockwise to loosen, then insert a push bar in the holder (Figure 39 A).
4. Rotate the collar about a quarter of a turn clockwise to tighten and secure the push bar (Figure 39 B).
5. Move the push bar back and forth a few times to ensure the collar is tight enough and that the push bar is secured. If the bar does not move after the verification, it is properly secured.
6. Repeat steps 3 to 5 for the installation of the second 13 in. (34 cm) push bar.

NOTE : Use a carabiner to hold the IV bag(s). The maximum weight capacity for transport is 1 L or 1 kg (33.81 fl oz or 2.2 lb), per push bar.

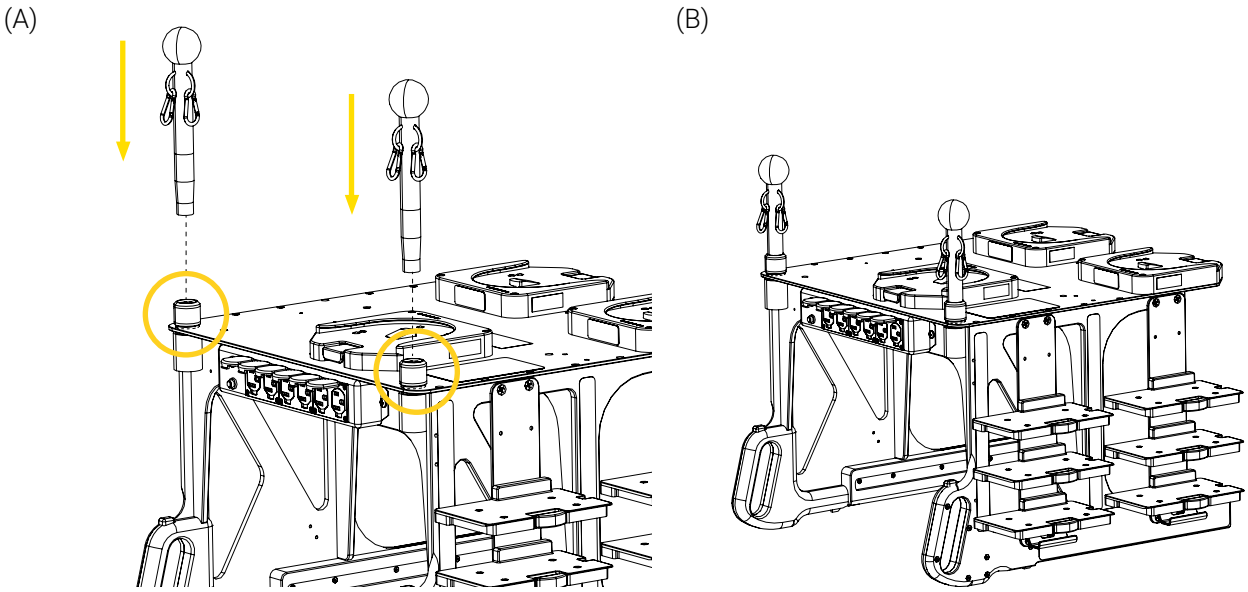


Figure 39: Installing the 13 in. (34 cm) push bars on the mobile structure

7. Remove the lock pin from the XTPA-PPXT Rail clamp blocks on both sides of the stretcher (Figure 40) if needed.

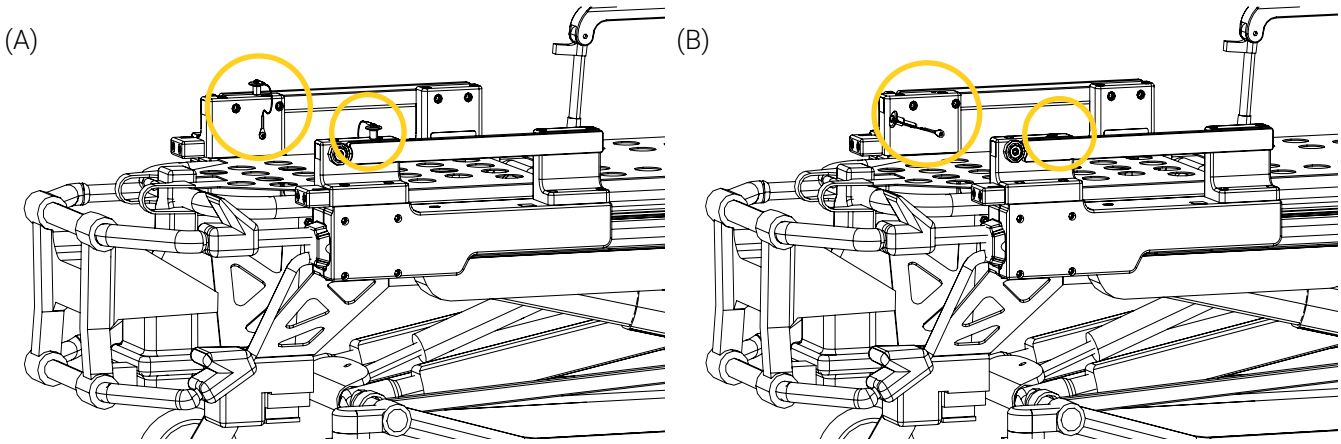


Figure 40: Removing the lock pins

8. Assisted by a trained EMS or clinical member, lift the mobile structure using the recommended lifting techniques. Refer to the « Safety Measures » section on page 12 and to your established internal protocols if needed.
9. Align and install the mobile structure on the XTPA-PPXT Rail System (Figure 41), then move the mobile structure back and forth a few times using the handles, until the gliding feels fluid and you no longer feel resistance.

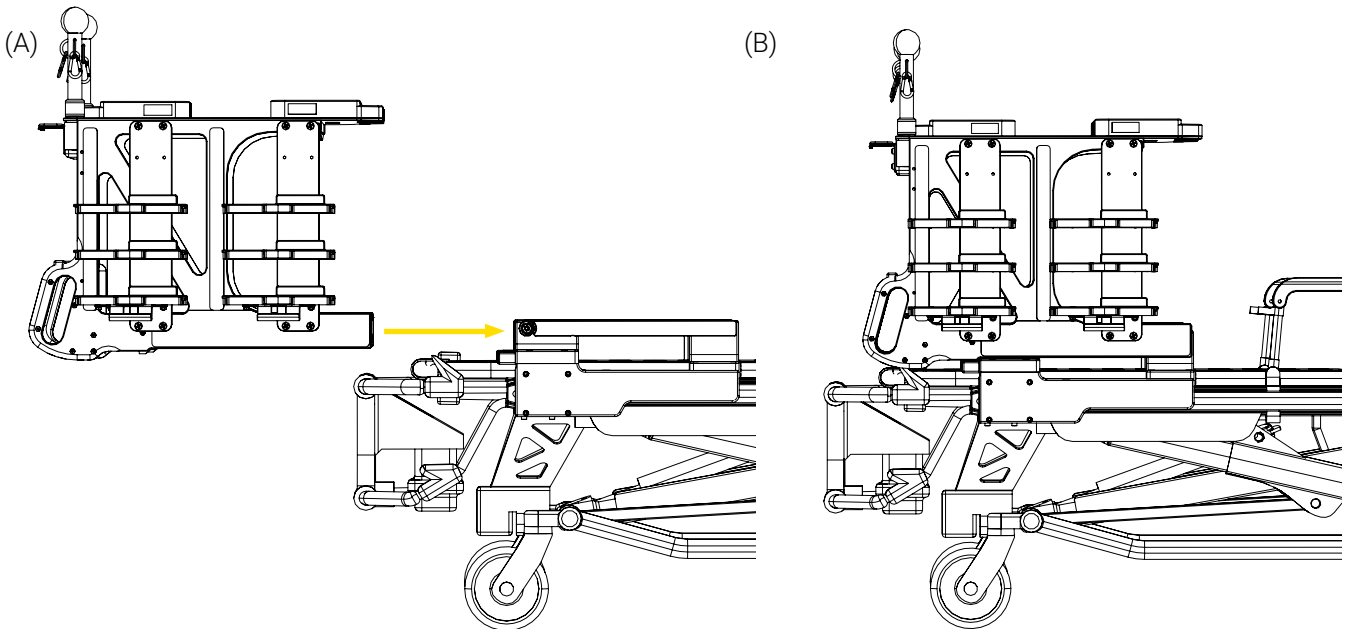


Figure 41: Installing the mobile structure on the XTPA-PPXT Rail System

10. Grab the mobile structure handles, then press and hold the buttons of the quick release mechanisms (Figure 42 A).
11. Pull the mobile structure towards patient foot end until it locks (Figure 42 B).

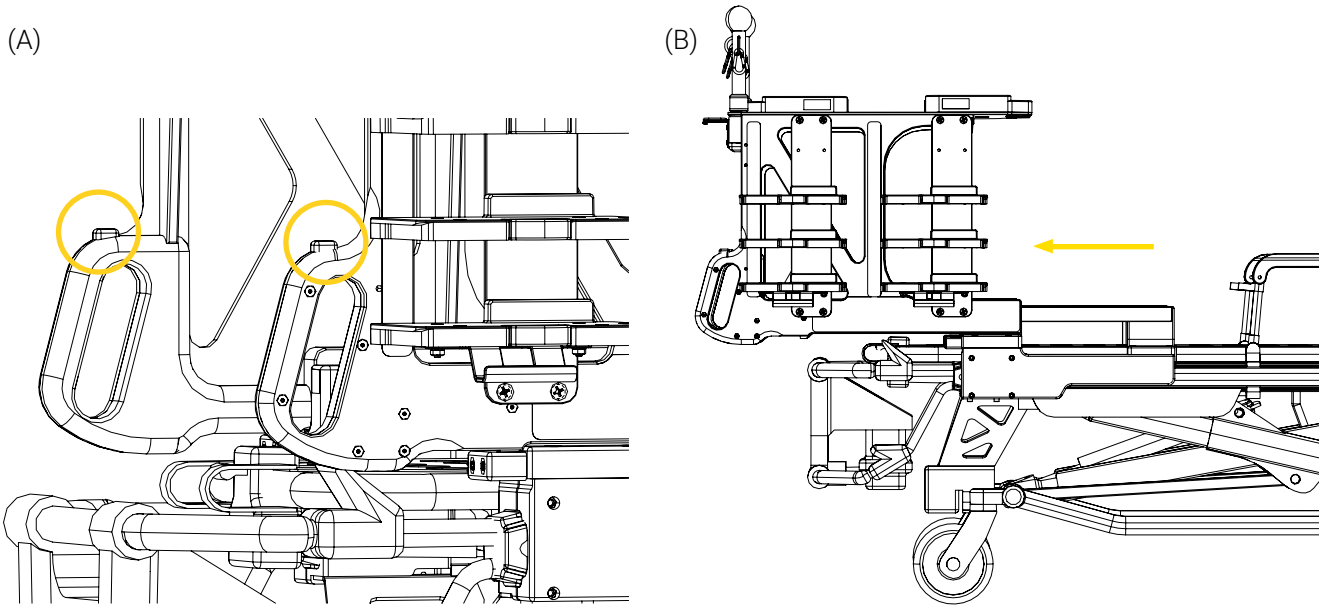


Figure 42: Locking the mobile structure

12. Tighten the three (3) accessible screws located on top of each XTPA-PPXT Rail (Figure 43) using a 3⁄16 in. hex key. Currently inaccessible, the fourth screw will be tightened in a later step.

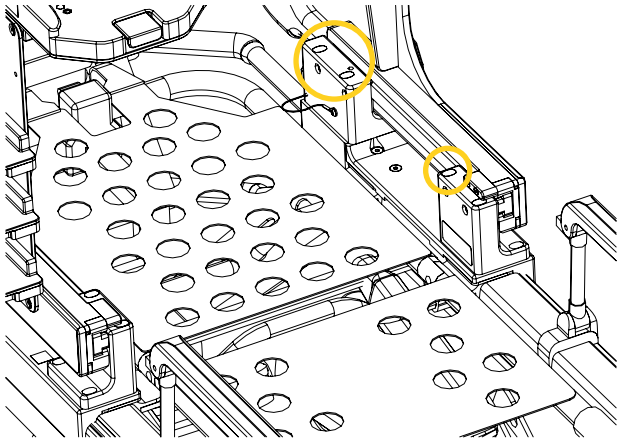


Figure 43: Tightening the XTPA-PPXT Rail System hardware

13. Grab the mobile structure handles, then press and hold the buttons of the quick release mechanisms (Figure 44).

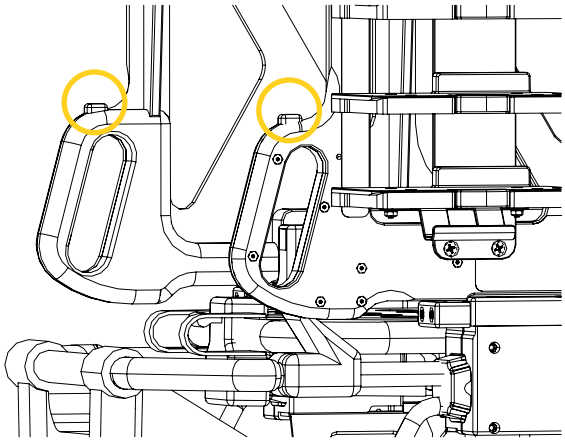
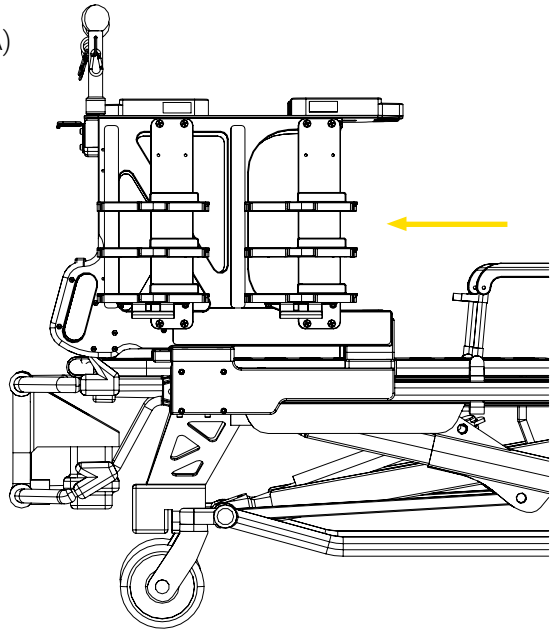


Figure 44: Mobile structure quick release mechanisms

14. Pull the mobile structure towards the patient foot end until it has been removed (Figure 45).

(A)



(B)

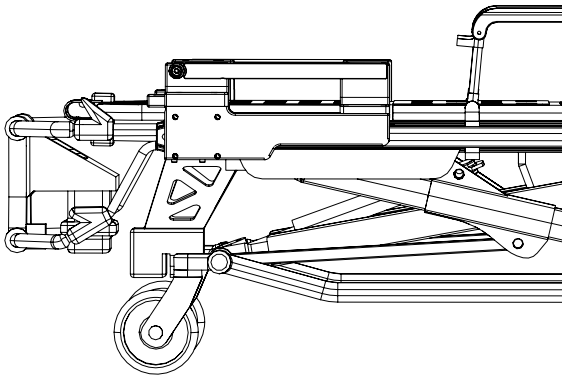


Figure 45: Removing the mobile structure

15. Tighten the last previously inaccessible screw located on the top of each rail using a 3/16 in. hex key (Figure 46).

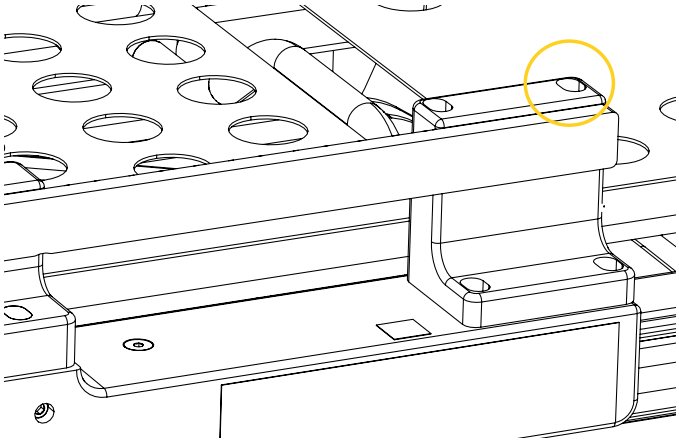


Figure 46: Tightening the screw on top of the XTPA-PPXT Rail System

16. Tighten the remaining eight (8) screws of the XTPA-PPXT Rail System using a 3/16 in. hex key.
17. Reinstall the mobile structure to ensure that the mobile structure easily glides on the XTPA-PPXT Rail System. If not, repeat steps 8 to 16.
18. Leave a gap between 1/32 - 1/16 in. between the two (2) small blocks located at the front of the XTPA-PPXT Rail System and the inferior surface of the mobile structure (Figure 47 A).
19. Tighten the two (2) socket head screws on each block using a 5/32 in. hex key (Figure 47 B).

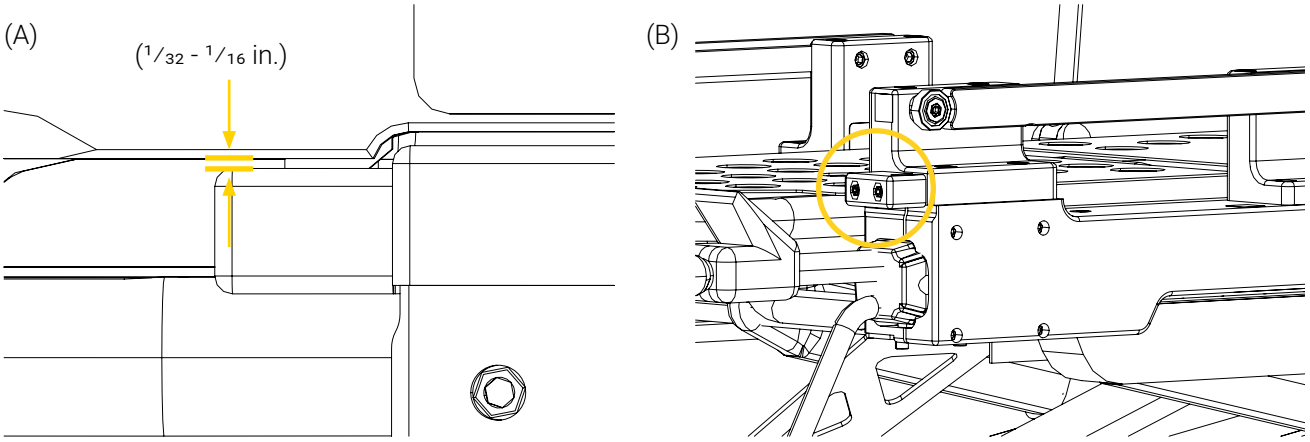


Figure 47: Blocks located at the front of the XTPA-PPXT Rail System

20. Ensure that all the screws are properly tightened, but do not over tighten.

21. Reinstall the lock pin on the XTPA-PPXT Rail clamp blocks on the both sides of the mobile structure (Figure 48), making sure that the lock pins are properly inserted.

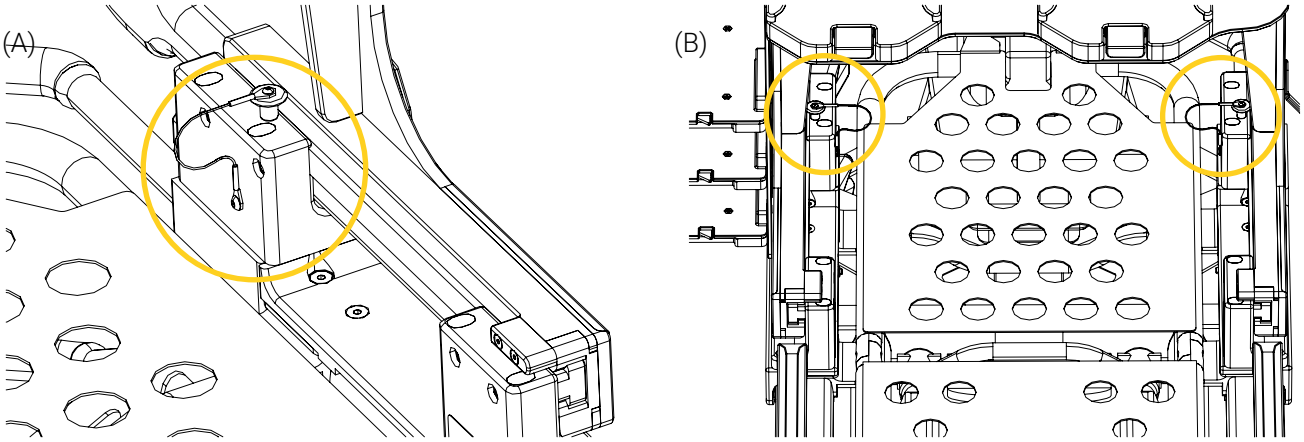


Figure 48: Lock pins installed

22. Install eight (8) screw caps on the XTPA-PPXT Rail clamp blocks of each XTPA-PPXT Rail System using a punch and mallet, ensuring that they are flat and leveled with the surface of the rail clamp blocks (Figure 49).

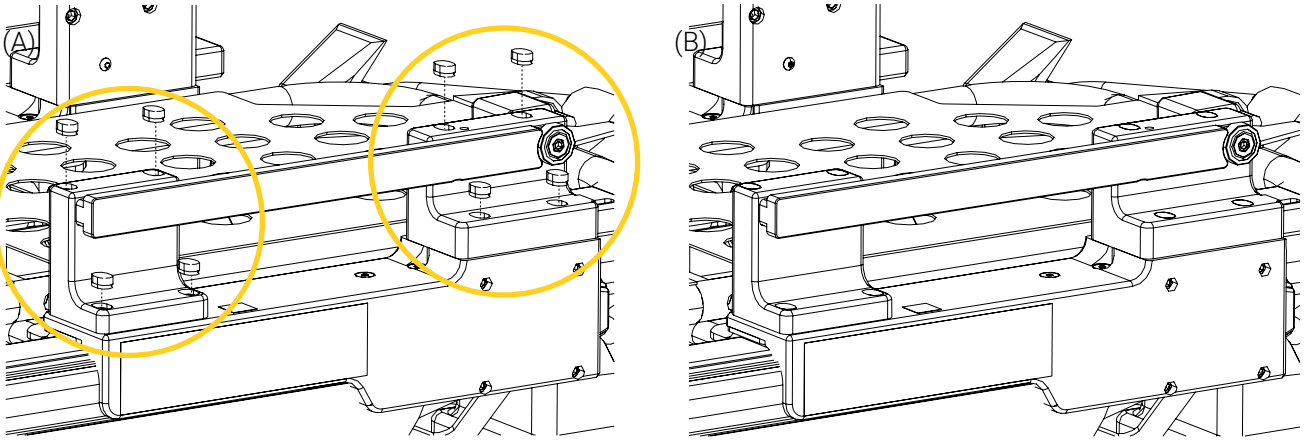


Figure 49: Installation of the screw caps on the XTPA-PPXT Rail clamp block (patient left)

23. Place a Safe Working Load (SWL) label between the mobile structure and XTPA-PPXT Rail System, on both sides of the stretcher (Figure 50).

(A) (B)

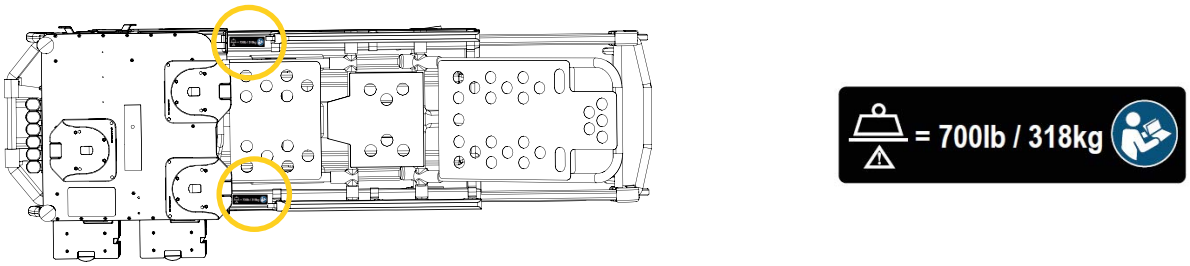


Figure 50: Safe Working Load (SWL) label

24. Reinstall the mattress on the stretcher.
25. Align and install the mobile structure on the XTPA-PPXT Rail System (Figure 51).

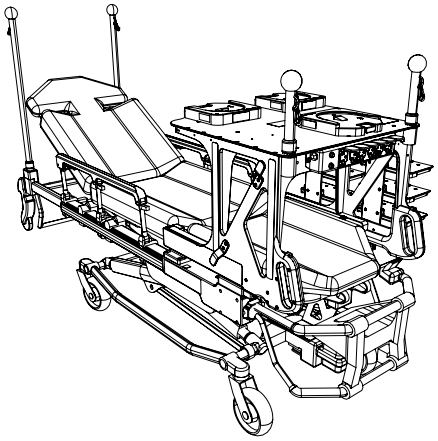
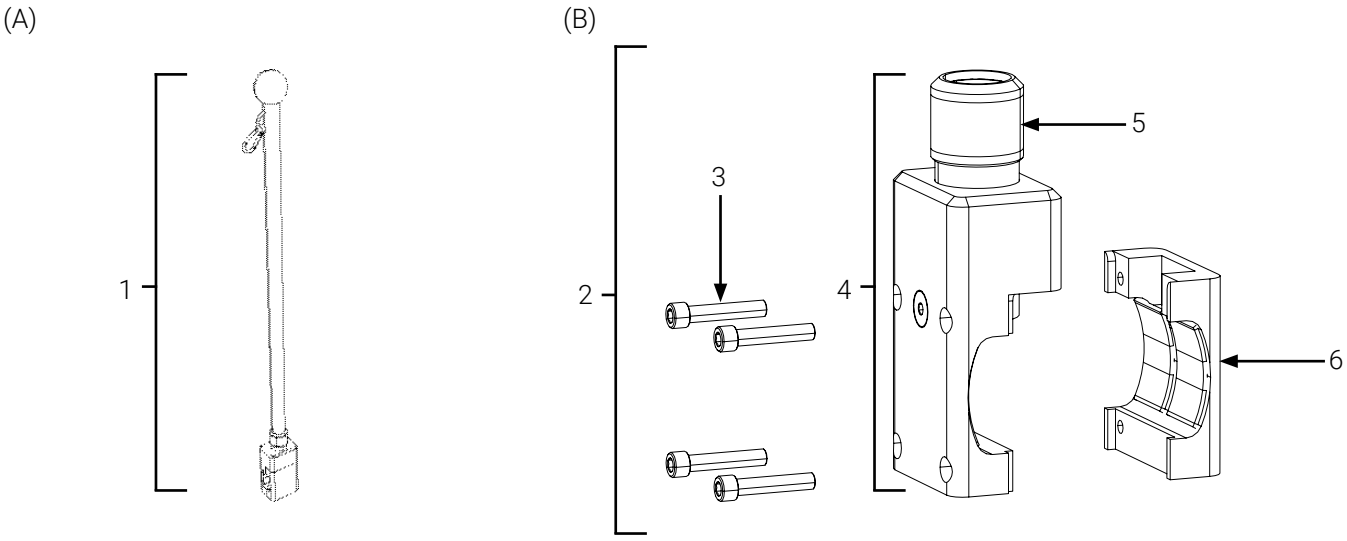


Figure 51: Mobile structure installed on the XTPA-PPXT Rail System

The installation the mobile structure on the XTPA-PPXT Rail System is complete.

Install the 32 in. (81 cm) Push Bars on the Stretcher

1. Identify the 32 in. (81 cm) push bar and XTPA-PPXT push bar clamp block assembly parts (Figure 52).



1. 32 in. (81 cm) push bar with XTPA-PPXT push bar clamp block
2. XTPA-PPXT push bar clamp block
3. ¼ - 20 X 1 in. socket head screws (4X)
4. Interior part of the XTPA-PPXT push bar clamp block
5. Collar
6. Exterior part of the XTPA-PPXT push bar clamp block

Figure 52: 32 in. (81 cm) push bar and XTPA-PPXT push bar clamp block assembly parts

2. Lift the backrest of the stretcher upright to allow space for the installation of the XTPA-PPXT push bar clamp blocks. Refer to the stretcher user documentation for the safety guidelines, safe use and recommendations if needed.

3. Partially tighten the exterior part of the push bar clamp block on the outside of the stretcher frame and the interior part of the push bar clamp block on the inside of the stretcher frame, using four (4) ¼ - 20 X 1 in. flat head hex drive screws and a 5/32 in. hex key (Figure 53 A).
4. Leave a 1 in. gap between the push bar clamp block and the end of the stretcher, then tighten the four (4) screws using a 5/32 in. hex key, alternating the screw heads (Figure 53 B).
5. Repeat steps 3 and 4 on the other side of the stretcher to install the second XTPA-PPXT push bar clamp block.

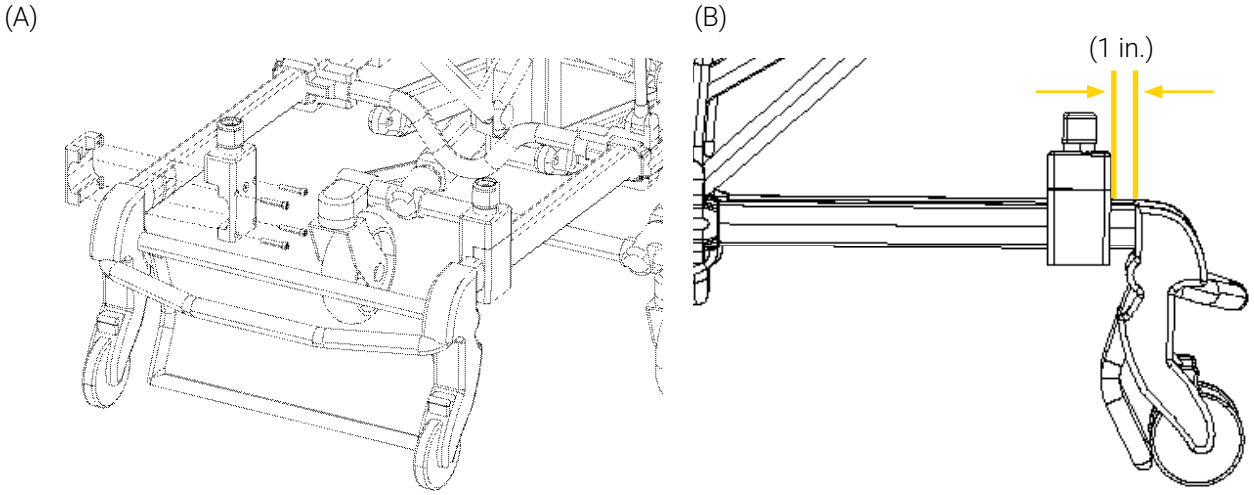
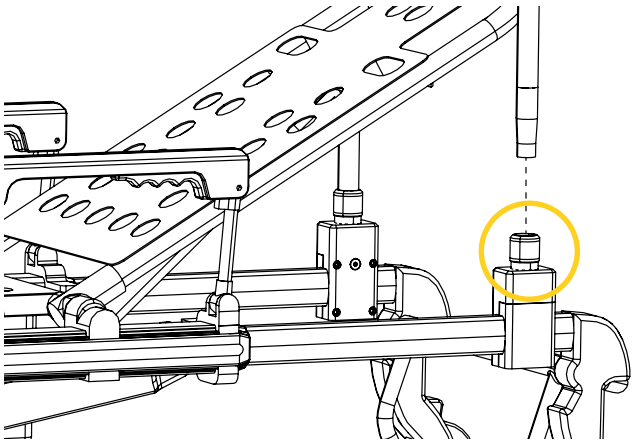


Figure 53: Installing the XTPA-PPXT push bar clamp blocks

6. Rotate one (1) of the two (2) collars of the push bar clamp block about a quarter of a turn counterclockwise to loosen, then insert a push bar in the clamp block (Figure 54 A).
7. Rotate the collar about a quarter of a turn clockwise to tighten and secure the push bar (Figure 54 B).
8. Move the push bar back and forth a few times to ensure the collar is tight enough and that the push bar is secured. If the bar does not move after the verification, it is properly secured.
9. Repeat steps 6 to 8 for the installation of the second 32 in. (81 cm) push bar

NOTE : Use a carabiner to hold the IV bag(s). The maximum weight capacity for transport is 2 L or 2 kg (67.63 fl oz or 4.4 lb), per push bar.

(A)



(B)

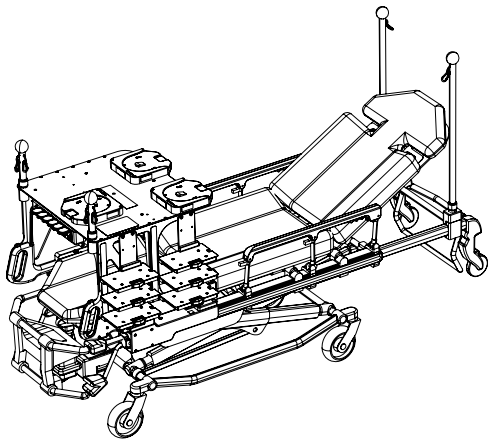


Figure 54: Installing the 32 in. (81 cm) push bars on the stretcher

The installation the 32 in. (81 cm) push bars on the stretcher is complete.

Annex IV Install the Optional Parts

The content in this section is intended for biomedical technicians (or equivalent) who have extensive mechanical experience, and advanced skill level and have read the « Safety Measures » section on page 12.

Required Tools

- $^{7}/_{16}$ in. wrench
- Phillips screwdriver #2

Install an Additional Power Bar

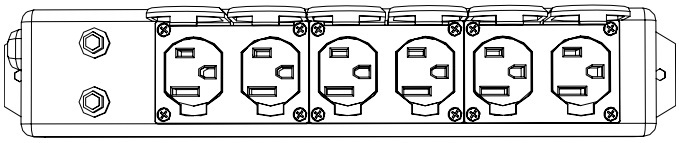


Figure 55: Power bar

1. Locate the power bar at the front of the mobile structure, under the mobile structure top plate towards patient foot end (Figure 56).

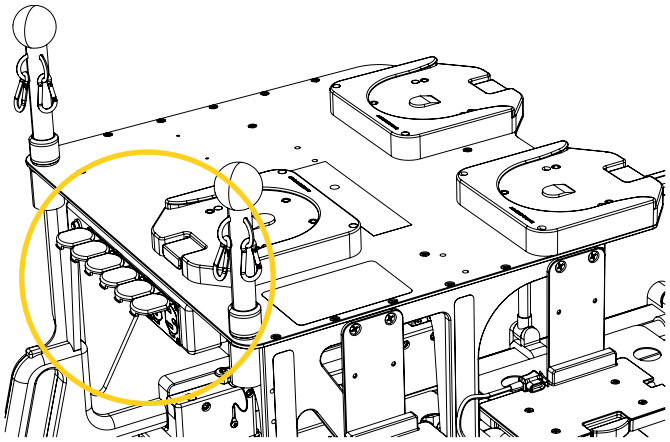


Figure 56: Power bar location

2. Remove the two (2) nuts using a 7/16 in. wrench (Figure 57). Set aside the nuts temporarily, leaving in place the two (2) ¼ - 20 x 1 in. screws and power bar on the mobile structure.

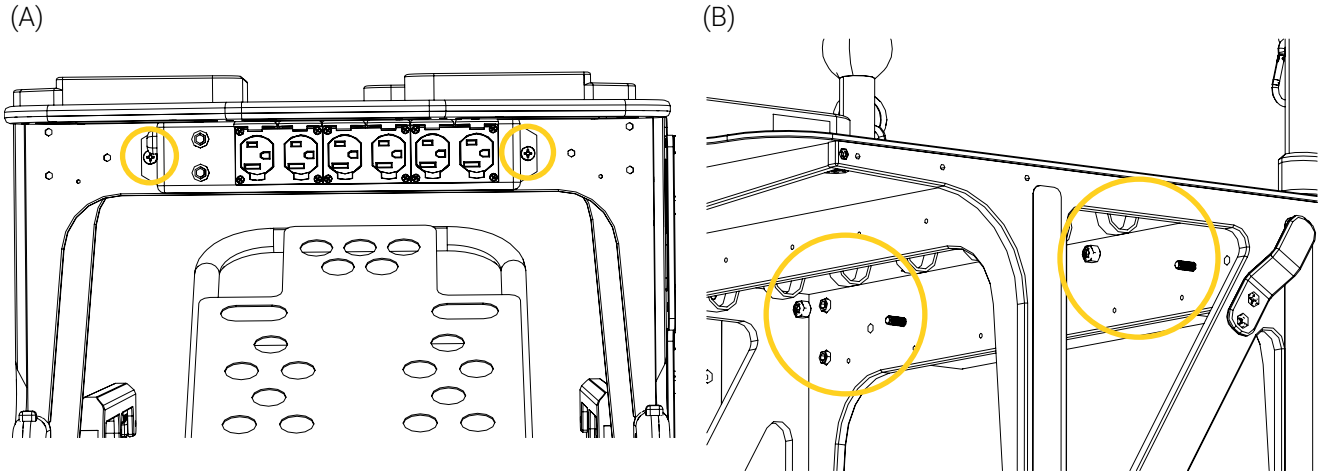
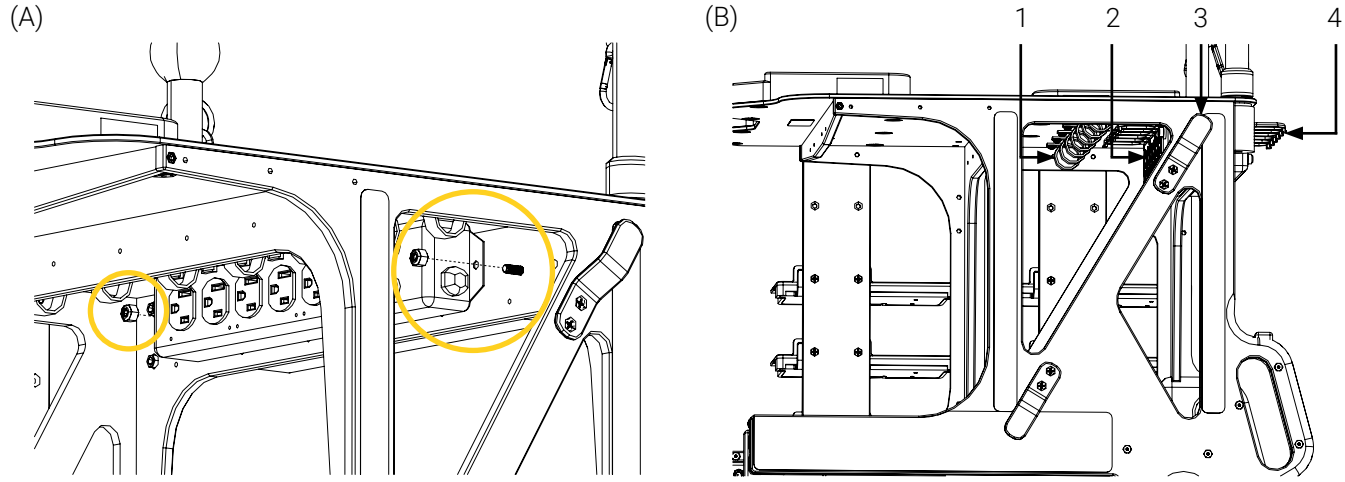


Figure 57: Removal of the nuts

3. Install the second power bar on the stems of the ¼ - 20 x 1 in. screws, then tighten both power bars to the mobile structure reusing the two (2) nuts and a 7/16 in. wrench (Figure 58).

   NOTE : Once installed, the power bars should be mounted back-to-back, the power outlets should be accessible on both sides of the mobile structure top plate and the power cords towards patient right.

4. Use the power cord holders located on patient right of the mobile structure, and the cable management system located under the top plate, to organize the power cords (Figure 58) if needed.



1. Cable management system
2. Power bar (optional)
3. Power cord holder (2X)
4. Power bar (factory installed)

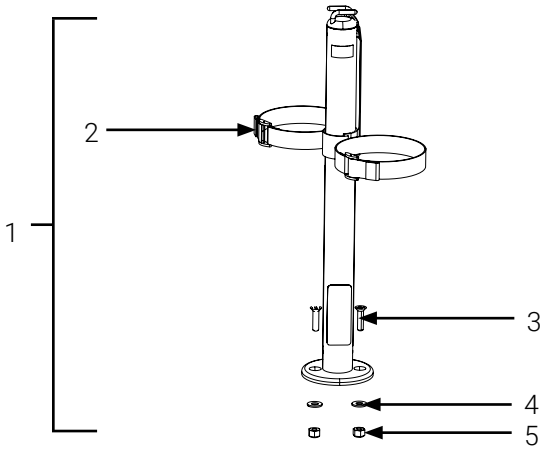
Figure 58: Installing an additional power bar

The installation of an additional power bar is complete.

Install the Techni-IV Pole and Harness

NOTE : The Techni-IV pole is approved for ambulance transport. The maximum weight capacity approved for transport is 1.5 L or 1.5 kg (50 fl oz or 3.3 lb).

1. Identify the Techni-IV pole assembly parts (Figure 59).

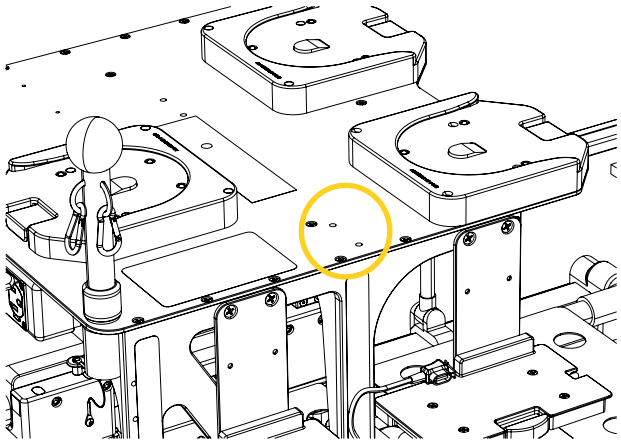


1. Techni-IV pole
2. Harness
3. ¼ - 20 X 1 in. flat head Phillips drive screws (2X)
4. Washers (2X)
5. ¼ - 20 nylon-insert locknut (2X)

Figure 59: Techni-IV pole assembly parts

2. Locate the two (2) holes on the mobile structure top plate intended for the installation of the Techni-IV pole (Figure 60 A).
3. Install the Techni-IV pole using two (2) ¼ - 20 X 1 in. flat head Phillips drive screws (Figure 60 B).
4. From under the mobile structure top plate, insert a washer and locknut on the stem of each screw, then tighten using a $^{7}/_{16}$ in. wrench and a Phillips screwdriver #2 (Figure 60 B).

(A)



(B)

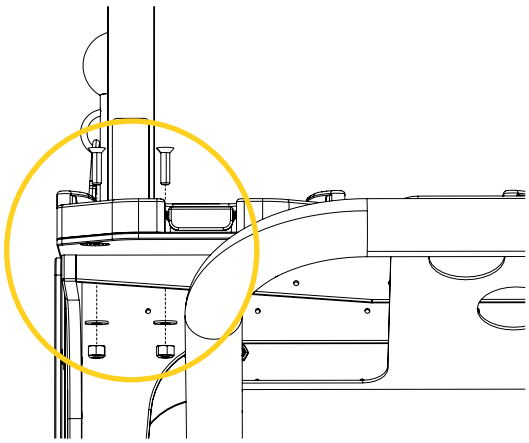


Figure 60: Installing the Techni-IV pole

5. Move the Techni-IV pole back and forth a few times to ensure it is secured on the top plate. If the pole does not move after the verification, it is properly secured.
6. Insert the center loop of the harness on the Techni-IV pole (Figure 61 A).
7. Hook the eyelet at the end of the harness into one of hooks at the top of the Techni-IV pole to install the harness (Figure 61 B).

(A) (B)

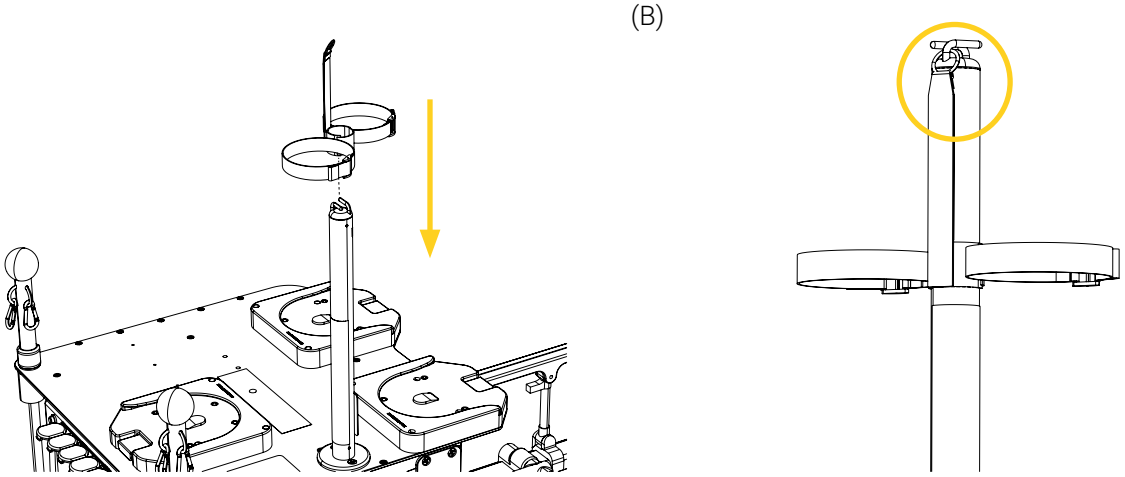


Figure 61: Installing the harness

8. Adjust the size of the harness using the buckles (Figure 62) if needed.

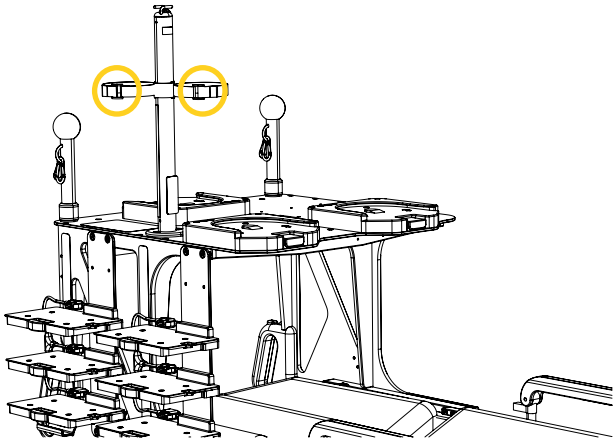


Figure 62: Techni-IV pole installed

The installation of the Techni-IV pole and harness is complete.

Annex V Maintenance

Safety checks and condition-based maintenance should be carried out by biomedical technicians (or equivalent) who have extensive mechanical experience, and advanced skill level and have read all the « Safety Measures » section on page 12, and the maintenance specific safety measures listed below.

Factors such as weather, environment, geographical location and individual usage will necessitate different needs. For the maintenance of the Xtension Pro Assistant – CCT/ECMO, follow the guidelines listed herein and in accordance with your service's current maintenance practices and established internal protocols. Please contact Technical Support at techsupport@technimount.com for replacement parts or repair related issues, if needed.

WARNING – General Warning

- **Do not** perform safety checks or condition-based maintenance before having read the entire content of the user manual, gained in-depth knowledge and product comprehension, and familiarized yourself with the standards and guidelines.
- **Do not** remove the mobile structure before the medical devices have been removed to perform the safety checks and condition-based maintenance.
- Safety checks and a condition-based maintenance plan are required and should be established for all Technimount products.
- Perform the safety checks and maintenance operations as described herein. Failing to follow the recommended maintenance plan or its guidelines could cause premature damage to the product.
- Use only Technimount parts, maintenance procedures, cleaning solutions and lubricants (if applicable), as described herein. Using unapproved modified parts or procedures for the maintenance of the Technimount product may cause the system to be unstable and could cause injury to the patients or EMS and clinical personnel and void the product warranty.
- Replace damaged or worn-out parts if past their expected service life or when damaged (refer to the « Replacement Parts/Kits » section on page 67). Recycle damaged parts or dispose according to the environmental laws that apply to your jurisdiction and consult the Safety Data Sheets (SDS).

CAUTION – Safe Handling and Operation

- **Do not** use unauthorized, untested or unapproved cleaning products and disinfectants to perform condition-based maintenance, to avoid damaging the surface of your Technimount product and void the warranty. Technimount will not be held liable for damages resulting from the use of an unauthorized, untested or unapproved cleaning product.
- **Do not** use powered tools to screw the hardware during installation, as there is a potential risk of damage to the threads.
- **Do not** steam clean or use ultrasonic cleaners on the system or any of its components.
- **Do not** immerse the metal parts/components in water.
- To spot clean, the maximum water temperature should not exceed 180° F/82° C. The maximum water pressure should not exceed 1500 psi/103.5 BAR. If using a high pressure washer, the pressure nozzle must be kept a minimum of 24 in. (61 cm) from the unit.
- When cleaning, always use appropriate Personal Protection Equipment (PPE) based on your established internal protocols (e.g., gloves, eyewear, etc.).

CAUTION – Corrosion

- Always rinse and dry the mounting system properly after using cleaning products. Certain types of cleaners may leave a corrosive residue on the surface of the product and could cause the premature corrosion of critical components. Refer to the product Safety Data Sheets (SDS) for chemical information or handling, storage and emergency measures in case of accident.
- Dispose of corrosive wastes according to the environmental laws that apply to your jurisdiction and consult the Safety Data Sheets (SDS).

CAUTION – Follow Instructions for Use

Always read and abide by all the safety guidelines identified, as well as follow all of the instructions provided by the manufacturer of the cleaning product.

Maintenance Frequency

- Safety checks and the condition-based maintenance should be performed minimally every month or as frequently needed, to prolong the longevity of the mounting system in optimal conditions.
- Decontaminate the mounting system as recommended in your established internal protocols, as well as the regulations and standards in virtue of the infection prevention and control procedures.

Required Tools

- Clean dry cloths
- Soft brush
- Pressure washer
- Cleaning solutions
- Medium strength thread lock adhesive ( )
- $^{3}/_{16}$ in. hex key
- $^{5}/_{32}$ in. hex key
- Phillips screwdriver #2
- Torx screwdriver T27
- Punch
- Mallet
- $^{7}/_{16}$ in. wrench

Tested and Approved Cleaning Solutions

- Lavo 12, 10 000 ppm Sodium Hypochlorite
- TNT-100, 5% Quaternary Ammonium Compound
- Spectro-Sept, 5% Ethyl Alcohol
- Spectrol, 5% EDTA salt

Maintenance Plan

NOTE : In case of a non-conformity, stop using the product and contact Technical Support at techsupport@technimount.com immediately for a remedial action plan.

NOTE : Always keep records of your maintenance activities and immediately remove defective or expired products from your inventory.

MAINTENANCE PLAN	COMPLIANT	
SAFETY CHECKS	YES	NO
Xtension Pro Assistant – CCT/ECMO (Figure 63)		
- Visually inspect all the components of the mounting system to ensure there is no damage or chemical attack, that the hardware is in good condition and there are no loose screws:		
- Mobile structure.	☐	☐
- Top plate.	☐	☐
- Standard Surface Base (3X). Refer to the user documentation.	☐	☐
- Techni-IV pole and harness.	☐	☐
- 13 in. (34 cm) push bar with carabiner for fluid bags (2X).	☐	☐
- Power bar.	☐	☐
- Fixed, infusion pump bracket (2X).	☐	☐
- Cable management system.	☐	☐
- Power cord holder (2X).	☐	☐
- Quick release button (mobile structure handles; 2X).	☐	☐
- Handle (2X).	☐	☐
- Lock pin (2X).	☐	☐
- Quick release button (Standard Surface Bases; 3X).	☐	☐
- 32 in. (81 cm) push bar with carabiner for fluid bags (2X).	☐	☐
- XTPA-PPXT Push bar clamp block (2X).	☐	☐
- XTPA-PPXT Rail clamp block (2X).	☐	☐
- XTPA-PPXT Rail (2X).	☐	☐
- XTPA-PPXT Rail System.	☐	☐
- All optional parts and Technimount mounting brackets.	☐	☐
- If there is damage to the components, remove the product from circulation and contact Technical Support immediately for a remedial action plan.	☐	☐

MAINTENANCE PLAN	COMPLIANT	
SAFETY CHECKS	YES	NO
- If there are traces of chemical attack, follow the conditioned-based maintenance herein.	☐	☐
- If the hardware is loose, tighten it using the appropriate tool. Refer to the « Required Tools » section on page 60, or contact Technical Support if needed.	☐	☐
- If the hardware is not in good condition, replace it using the appropriate tool. Refer to the « Required Tools » section on page 60, or contact Technical Support if needed.	☐	☐
- Visually inspect the cavities of the mounting system components and make sure there are no lodged particles to ensure proper functioning. If so, immediately remove using a clean dry cloth:		
- Mobile structure quick release mechanism (2X; inside each handle)	☐	☐
- XTPA-PPXT Rail System and bearings	☐	☐
- Standard Surface Bases (3X). Refer to the user documentation.	☐	☐
- Fixed, infusion pump bracket (3X per bracket).	☐	☐
- Press and release the quick release mechanism of each bracket and make sure of proper functioning. The mechanism should spring in and out without any resistance. If not, remove the product from circulation and contact Technical Support immediately for a remedial action plan.	☐	☐
- Press and release the quick release mechanisms of each handle and make sure of proper functioning. The mechanism should go in and out without any resistance. If not, remove the product from circulation and contact Technical Support immediately for a remedial action plan.	☐	☐
- Install/remove the Xtension Pro Assistant – CCT/ECMO on the stretcher to ensure proper functioning. The Xtension Pro Assistant – CCT/ECMO should be easily inserted and removed on/from the XTPA-PPXT Rail System using the quick release mechanism. If not, remove the product from circulation and contact Technical Support immediately for a remedial action plan.	☐	☐
- Check that the locking pins are correctly installed on both sides of the mobile structure.	☐	☐
- Ensure the collars of each push bar is tightened; (2) on the mobile structure and (2) in the XTPA-PPXT push bar clamp blocks. The bars should be secured in place. If not, rotate the collar about a quarter of a turn clockwise to tighten and secure the push bar.	☐	☐
- Install/remove a pump in each fixed, pump bracket to ensure proper functioning. The pump should be easily inserted and locked in position after the click sound and easily removed when using the quick release mechanism. If not, remove the product from circulation and contact Technical Support immediately for a remedial action plan.	☐	☐

CONDITION-BASED MAINTENANCE	YES	NO

Following the safety checks,

Clean the Xtension Pro Assistant – CCT/ECMO ☐ ☐

1. Remove the excess dirt using a clean cloth, if needed.
2. Remove the contaminants using a pressure washer or as recommended in your established internal protocols and control procedures.
3. Clean using a cloth and cleaning solution.
4. Spot clean stains by applying the solution directly on the stain and let sit on the surface, if needed.

   NOTE : Avoid over saturation and ensure that the product does not sit on the surface of the mounting system longer than recommended by the cleaner's manufacturer.

5. Thoroughly rinse the solution with a clean cloth dampened with lukewarm water, then dry all the components using a clean cloth before returning to service.

Clean the Standard Surface Bases and Technimount Mounting Brackets ☐ ☐

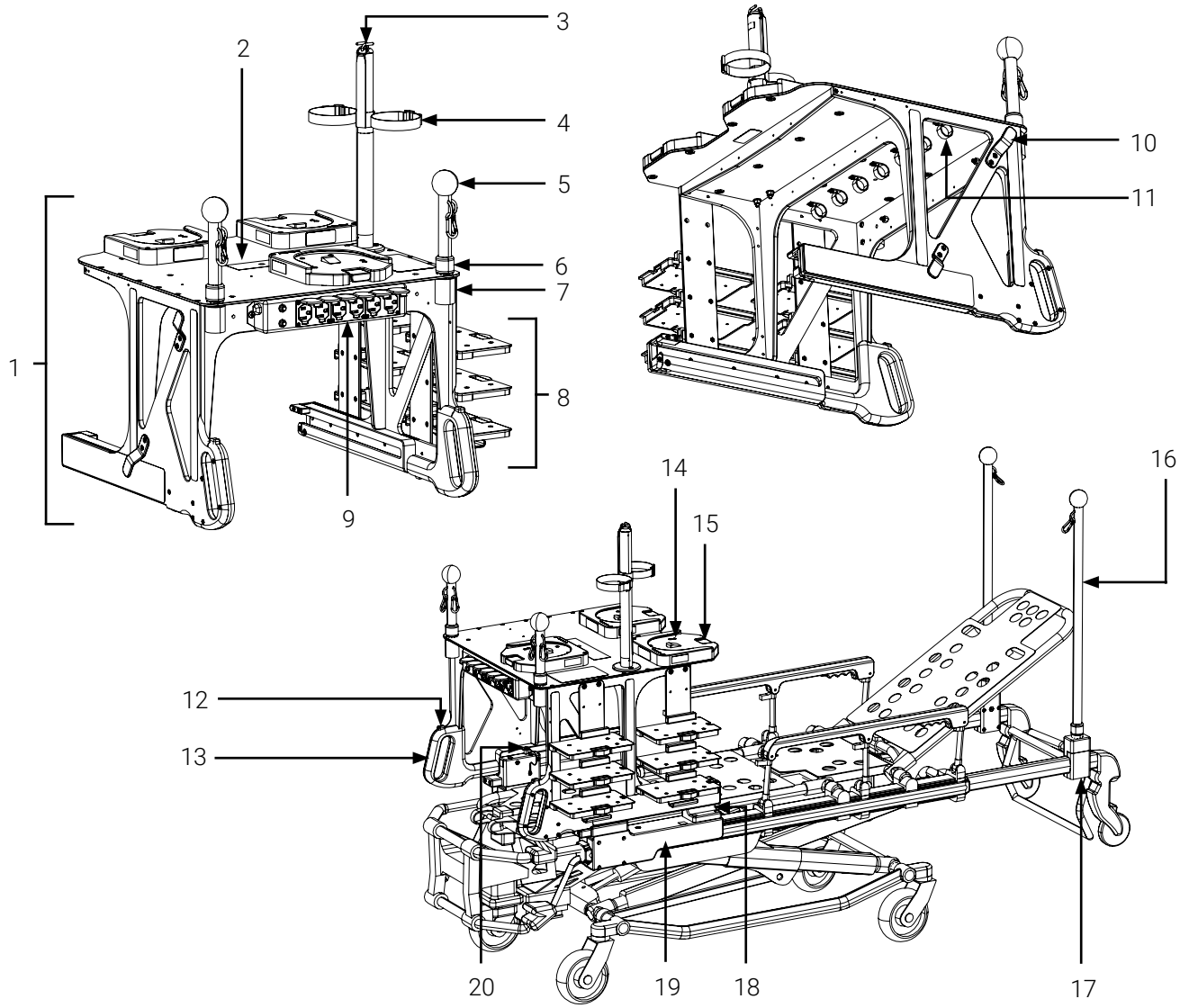
Refer to the user documentation.

Comments and observations following the Safety Checks and Condition-Based Maintenance:

Maintenance plan completed on (dd/mm/yyyy):

Maintenance plan completed by:

Illustrated Inspection Points



1. Mobile structure
2. Top plate
3. Techni-IV pole
4. Harness
5. 13 in. (34 cm) push bar with carabiner for fluid bags (2X)
6. Collar (4X)
7. Push bar holder (2X)
8. Fixed, infusion pump bracket (2X)
9. Power bar
10. Power cord holder (2X)
11. Cable management system
12. Quick release button (handles; 2X)
13. Handle (2X)
14. Standard Surface Base (3X)
15. Quick release button (bases; 3X)
16. 32 in. (81 cm) push bar with carabiner for fluid bags (2X)
17. XTPA-PPXT Push bar clamp block (2X)
18. XTPA-PPXT Rail (2X)
19. XTPA-PPXT Rail clamp block (2X)
20. Lock pin (2X)

Figure 63: Illustrated inspection points

Annex VI Replacement Parts/Kits

Technimount reserves the right to change part numbers and products without notice. Please contact Customer Service at customerservice@technimount.com to ensure product options and availability, or Technical Support at techsupport@technimount.com for replacement parts/kits or repair related issues.

REFERENCE # (FIGURE 63)	PART/KIT NUMBER	PART/KIT DESCRIPTION
1	1650-10-PFXT-EC	Mobile structure – ECMO
3	1620-18-PFXT-IV	Techni-IV pole (w/o harness)
4	860-00-IV-HLD	Harness for the Techni-IV pole
5	1620-15-PFXT-BPB	13 in. (34 cm) Push bar kit, includes two (2) support blocks, two (2) 13 in. (34 cm) push bars, two (2) collars, two (2) knobs, two (2) carabiners, and hardware
5, 16	989-00-PFXT	Carabiner for 13 in. (34 cm) and 32 in. (81 cm) push bars
5, 16	921-30-UN	Knob for 13 in. (34 cm) and 32 in. (81 cm) push bars
N/A	1620-16-PFXT-BXIQ-GR3	Fixed, 3-pump bracket for the Baxter, Spectrum IQ infusion pumps
8	1620-17-PFXT-BBRK3GR	Fixed, 3-pump bracket for the B. Braun, Infusomat Space/Perfusor Space infusion pumps
9	3000-00-PS-607-INV	(6) outlet, medical grade power bar with surge protection, 7 ft cord and cable management
11	9006-00-PFXT	Cable management hooks with hardware (qty: 14)
14	100-20-UN	Standard Surface Base
16	1620-14-PFXT-FPB	32 in. (81 cm) Push bar kit, includes two (2) XTPA-PPXT Push bar clamp blocks, two (2) 32 in. (81 cm) push bars, two (2) collars, two (2) knobs, two (2) carabiners, and hardware
17	9002-00-PFXT	XTPA-PPXT Push bar clamp block for 32 in. (81 cm) Push bar
18, 19	1630-11-PFXT-RHS	XTPA-PPXT Rail System kit (patient right), includes one (1) XTPA-PPXT Clamp block sub-assembly, one (1) XTPA-PPXT Rail sub-assembly, and hardware
18, 19	1630-11-PFXT-LFS	XTPA-PPXT Rail System kit (patient left), includes one (1) XTPA-PPXT Clamp block sub-assembly, one (1) XTPA-PPXT Rail sub-assembly, and hardware
20	982-10-PFXT	Lock pin with wire rope lanyard and screw
N/A	980-00-PFXT	Collars for 13 in. (34 cm) and 32 in. (81 cm) push bars; qty 2)
N/A	981-00-PFXT	Screw caps for the XTPA-PPXT Rail clamp blocks (qty: 16)

REFERENCE # (FIGURE 63)	PART/KIT NUMBER	PART/KIT DESCRIPTION
N/A	100-12-XZ-HD	Technimount, Bracket Pro Serie 25 for the ZOLL X Series monitor/ defibrillator
N/A	700-23-HM	Technimount, Bracket Pro Serie 60 – SD for the Hamilton-T1 ventilator
N/A	2410-11-MQCH-INV	Technimount, Bracket Pro Serie 112 for the Cardiohelp System compact cardiopulmonary support system

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