TECHNIMOUNT
EMS®

SAS X2 CLAMP BLOCK

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

This 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), maintenance, training and skills assessment of the EMS and clinical personnel, as well as specific user-related information to safely and effectively operate the SAS X2 Clamp Block.

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 SAS X2 Clamp Block is a mounting system designed to aid trained EMS and clinical personnel secure and transport medical devices and accessories on the load frame of Ferno POWER X2 stretchers during ground emergency medical services and critical care transport.

1.2. User Competency

To safely operate the SAS X2 Clamp Block, personnel must have the required skill level to comply with their function and level of interaction with the mounting system. Training should be given to EMS and clinical personnel prior to them using the SAS X2 Clamp Block. Refer to the « Skills Assessment of the EMS and Clinical Personnel » section on page 23 to evaluate their competency.



Indicates who the content is intended for and the level of competency required. The definitions of the three (3) levels of competency are specified below.

- **Competent (trained EMS and clinical personnel):** Has received the required training, is sufficiently knowledgeable to safely operate the product and has passed the skills assessment (refer to the « Skills Assessment of the EMS and Clinical Personnel » section on page 23).

  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.

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- **Proficient (administrator/manager/supervisor):** Has in-depth knowledge and product comprehension, and is familiar with standards and guidelines. Skilled to train the 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 secure in place medical devices only in the case of a single crash impact, and must thereafter be immediately replaced. If the end user uses a Technimount product following a 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", is specifically designed to secure and transport medical devices and accessories on the load frame of Ferno POWER X2 stretchers during ground emergency medical services and critical care transport, and should only be used to fulfill 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.

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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 » section on page 8 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 the « Restocking fees » table on page 8).

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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 Material Authorization (RMA)

The Technimount Customer Service department is responsible for all merchandise returns and will provide a Return Material 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 the « Restocking fees » table) 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 material authorization (RMA) form and return instructions.

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2. General Safety Guidelines

The content in this section is intended for personnel who have a competent, proficient or advanced level of competency. Refer to the « User Competency » section on page 5 if needed.

Pictograms, safety symbols and labels are used to alert the user to a potentially hazardous situation, which, if not avoided, may endanger the patients or the EMS and clinical personnel, and/or damage 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 before reading the « Safety Measures » section on page 12.

WARNING – Indicates a hazardous situation that, if not avoided, could result in death or serious injury, and/or damage the product.

CAUTION – Indicates a hazardous situation that, if not avoided, could result in minor or moderate injury, and/or damage the product.

2.1. Symbols and Definitions



WARNING – Risk of Pinching/Crushing

Indicates an area where mechanical components could move toward each other and might result in a potential pinch/crush 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, and/or damage to the product.



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/or 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 Working Load (SWL)/Load Balance

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



CAUTION – Follow Instructions for Use

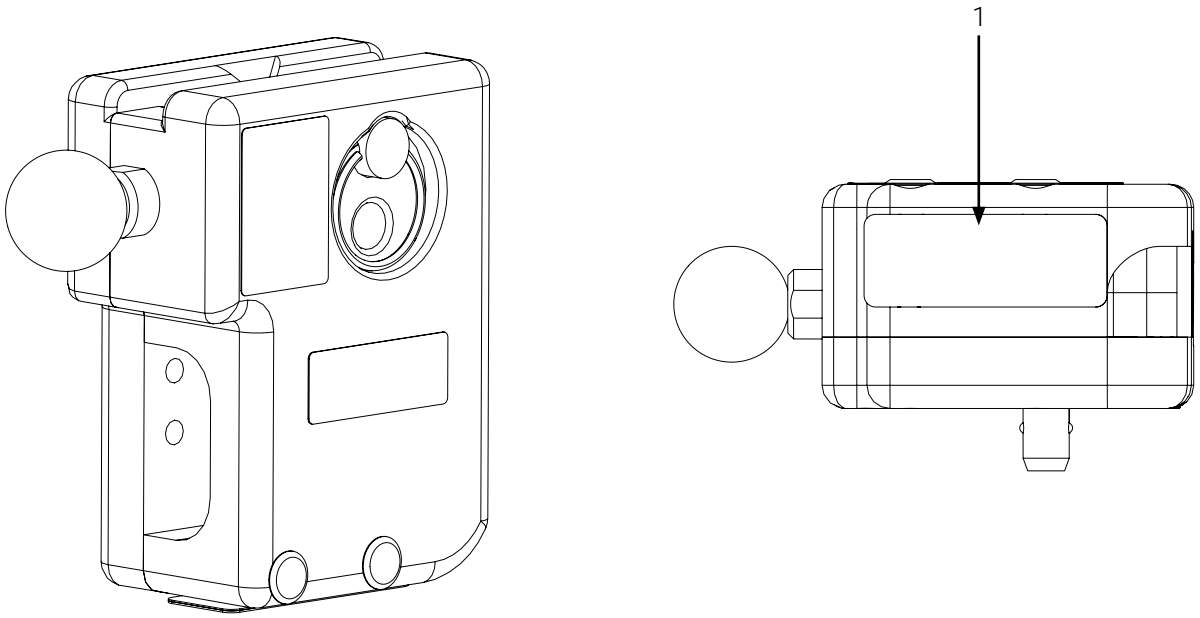
Call for action. Reminds the reader to consult the user manual for information.

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2.2. Labels

Labelling on the surface of the Technimount product, quickly identify potential risks and provides information to the user. A manufacturing label, including the serial numbers and the safe working load specifications (Figure 1), as well as an operating label, including a safety icon (Figure 2) can be seen on the Technimount product.

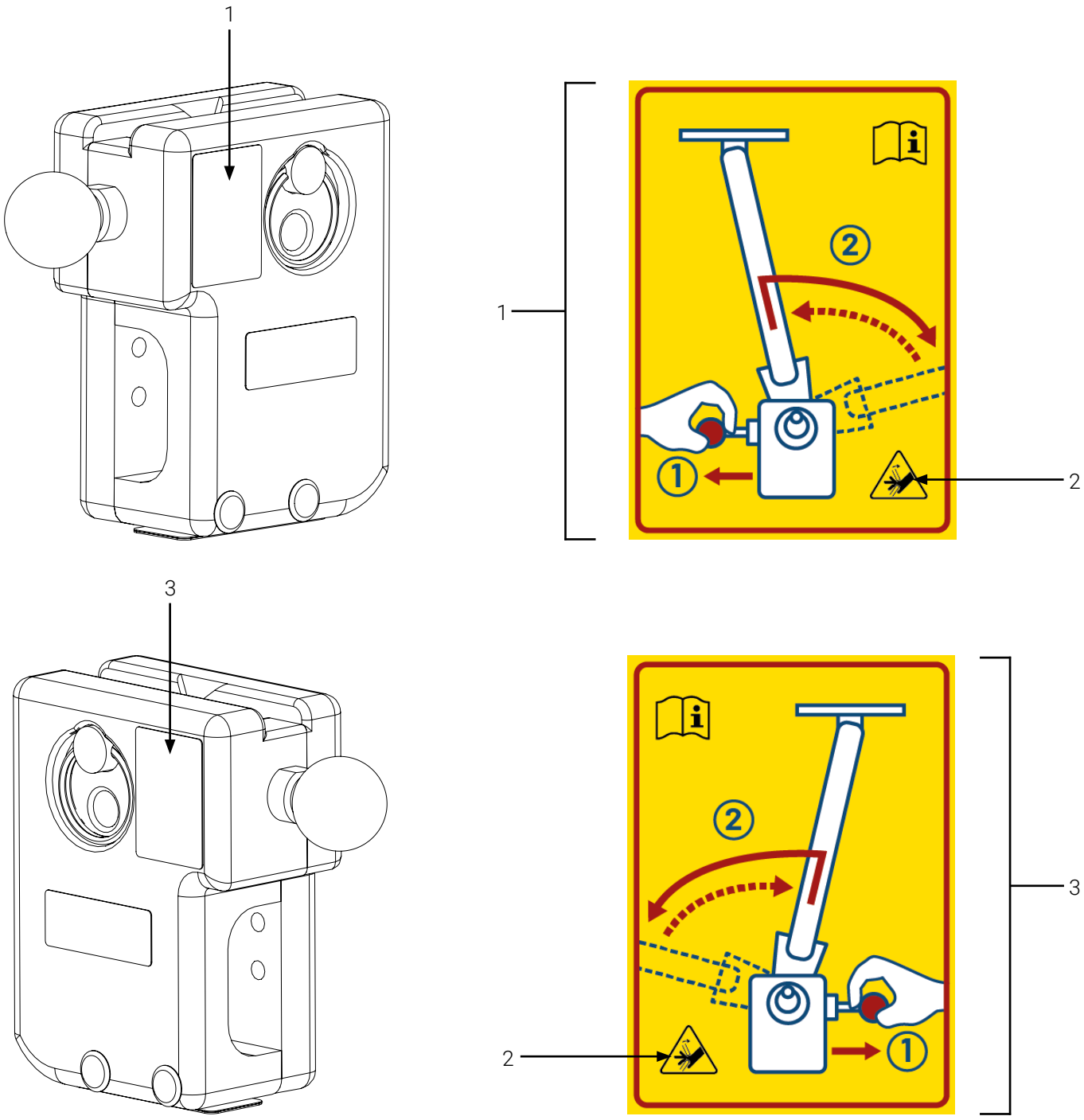
2.2.1. Manufacturing Label



1. Manufacturing label

Figure 1: Location of the manufacturing label

2.2.2. Operating Labels



1. Operating Label – SAS X2 Clamp Block (Patient right) 410-10-FX2
2. Risk of Pinching/Crushing safety icon
3. Operating Label – SAS X2 Clamp Block (Patient left) 410-10-FX2-LFS

Figure 2: Operating labels of the SAS X2 Clamp Block – Patient right and patient left

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2.3. Safety Measures

Carefully read all the safety measures herein before operating the Technimount product, and always abide by all the safety guidelines identified within this document.

Specific safety measures relating to the safety checks and the conditioned-based maintenance, intended for personnel who have an advanced level of competency, can be found in the « Maintenance » section on page 34.



WARNING – Unauthorized Systems

- **Under no circumstances** should the SAS X2 Clamp Block be installed on, connected to, or used in combination with any third party/competitor stretcher, mounting system, or similar equipment, unless Technimount has provided a formal written confirmation of compatibility for the specific configuration.
- The SAS X2 Clamp Block was engineered and tested exclusively for use with specific authorized and compatible Technimount components and mounting systems. Using any unauthorized and/or incompatible systems may cause the equipment to fall, operate unpredictably, or fail, resulting in serious injury to the patients or to the EMS and clinical personnel.
- Technimount assumes no responsibility for any damage, malfunction, or injury arising from use of unauthorized or incompatible systems. Using any unauthorized and/or incompatible system may result in non-compliance with the applicable safety standards and will immediately void all warranties and liability coverage.
- Technimount products are intended for use only within their defined applications, including but not limited to, emergency medical services, critical care transport, and approved healthcare environments. Refer to the « Technical Specifications » section on page 14.
- Regulations and standards for safety are the sole responsibility of the end user. Ensure that your established internal protocols are updated and meet the technical specifications requirements herein (refer to the « Technical Specifications » section on page 14), as well as the local and regional compliance requirements before use.



WARNING – Improper Installation

- Improper installations and/or installations that haven't been inspected and approved by qualified personnel may cause the equipment to fall, operate unpredictably, or fail, resulting in serious injury to the patients or to the EMS and clinical personnel.
- Technimount assumes no responsibility for any damage, malfunction, or injury arising from improper installations and/or installations that haven't been inspected and approved according to these requirements.
- Follow the installation instructions as detailed in the « Install the SAS X2 Clamp Block » section on page 26 for a safe and reliable installation of your SAS X2 Clamp Block, to avoid risks that may cause the equipment to fall, operate unpredictably, or fail, resulting in serious injury to the patients or to the EMS and clinical personnel.



WARNING – Risk of Pinching/Crushing

Do not put your hands/fingers near the triangular head of the Safety Arm System and SAS X2 Clamp Block during the installation/removal of the mounting system in/from the clamp block, to avoid risks of pinching, resulting in serious injury to the patients or to the EMS and clinical personnel. Refer to the Safety Arm System User Manual if needed.

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WARNING – Risk of Injury

- **Do not use** the SAS X2 Clamp Block for air emergency medical services and critical care transport.
- **Do not use** the SAS X2 Clamp Block if there are any loose or missing screws, to avoid risks that may cause damage or the equipment to fall or operate unpredictably, resulting in serious injury to the patients or to the EMS and clinical personnel.
- Immediately stop using the SAS X2 Clamp Block if any serious incident occurs and inform authorized personnel, to contact the Technical Support at techsupport@technimount.com for a remedial action plan and to report the incident to the applicable regulatory agency.

CAUTION – Safe Handling and Operation

- Always ensure that the SAS X2 Clamp Block is correctly installed and secured on the load frame of the POWER X2 stretcher before moving the stretcher and/or before installing/removing the mounting system, to avoid risks that may cause damage or the equipment to fall or operate unpredictably, resulting in serious injury to the patients or to the EMS and clinical personnel.
- Always ensure that the mounting system is correctly installed and secured in the SAS X2 Clamp Block before moving the stretcher, to avoid risks that may cause damage or the equipment to fall or operate unpredictably, resulting in serious injury to the patients or to the EMS and clinical personnel.
- Always pay close attention **not to wedge** the power cords or tubing during the installation/removal of the mounting system.

CAUTION – Safe Practice

- Always pay close attention to the SAS X2 Clamp Block's safety mechanisms, to avoid risks that may cause damage or the equipment to fall or operate unpredictably, resulting in serious injury to the patients or to the EMS and clinical personnel. Follow the recommended maintenance plan and its guidelines, as described in this user manual.
- Always practice safely operating the SAS X2 Clamp Block until the manipulations have been perfected, before use with patients. Improper use of the mounting system may cause damage or the equipment to fall or operate unpredictably, resulting in serious injury to the patients or to the EMS and clinical personnel.

CAUTION – Safe Working Load (SWL)/Load Balance

- **Do not overload or exceed** the total Safe Working Load (SWL) of the SAS X2 Clamp Block, to avoid tipping incidents or risks of collapsing. Refer to the « Technical Specifications » section on page 14 for the SWL specifications.
- The Safe Working Load (SWL) of the SAS X2 Clamp Block **does not override** the maximum load capacity of another Technimount product or system, neither those of the mounting systems, medical devices and/or medical equipment accessories that could be installed on the clamp block. To comply with the SWL specification, the entire configuration should be taken into account. Refer to the user documentation of each product applicable to your specific configuration for specifications.

CAUTION – Follow the Instruction for Use

Always refer to your established internal protocols, as well as read and abide by the safety guidelines and instructions provided in the user documentation of the SAS X2 Clamp Block, mounting system and stretcher.

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3. Technical Specifications

The content in this section is intended for personnel who have a competent, proficient or advanced level of competency. Refer to the « User Competency » section on page 5 if needed.

Product Name	SAS X2 Clamp Block
Description	Mounting system designed to secure and transport medical devices and accessories on the load frame of Ferno POWER X2 stretchers during ground emergency medical services and critical care transport
Product Codes	- SAS X2 Clamp Block (Patient right) 410-10-FX2 - SAS X2 Clamp Block (Patient left) 410-10-FX2-LFS
Operating Environment	EMS/CCT (ground)
Compliance	- Tested in compliance with SAE J3043: 2025 - Tested in compliance with AMD-028: 2024
Expected Service Life	5 years
Compatible Stretchers	Ferno POWER X2 stretcher
Compatible Accessories	SAS X2 Spacer 810-00-FX2
Compatible Mounting Systems	Safety Arm System product line
Dimensions (W X D X H)	78.8 mm (3.1 in.) W X 143 mm (5.6 in.) D X 138 mm (5.4 in.) H
Weight	1.7 kg (3.8 lb)
Composition	Aluminum, stainless steel and plastic
Total Safe Working Load (SWL)	33.7 lb (15.9 kg)
Operating Temperature	- 35° C to 45° C (- 31° F to 113° F)
Tested and Approved Cleaning Solutions	- Oxivir, 5% Hydrogen Peroxide with Peracetic Acid (AHP) - Lavo 12, 10 000 ppm Sodium Hypochlorite - TNT-100, 5% Quaternary Ammonium Compound - Spectro-Sept, 5% Ethyl Alcohol - Spectrol, 5% EDTA salt
Options	N/A

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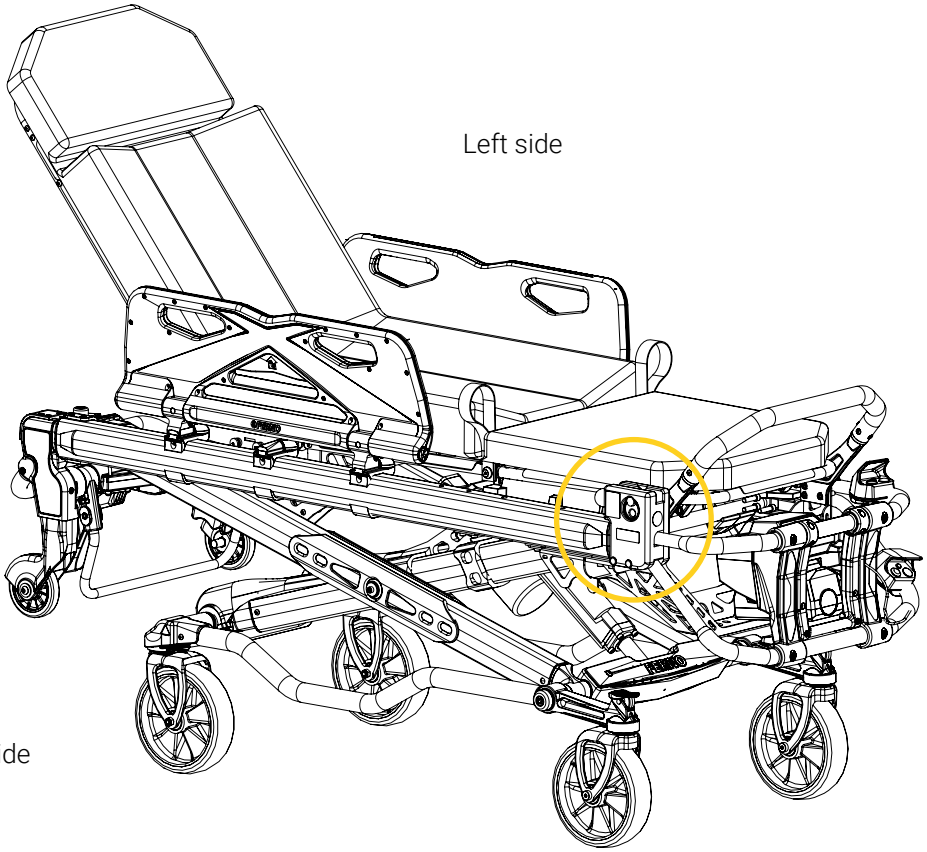
4. Orientation Illustrations

The content in this section is intended for personnel who have a competent, proficient or advanced level of competency. Refer to the « User Competency » section on page 5 if needed.

The orientations referenced herein are from the EMS and clinical personnel standpoint, when facing the stretcher (Figure 3).

Head end of the stretcher

Left side



Right side

Foot end of the stretcher

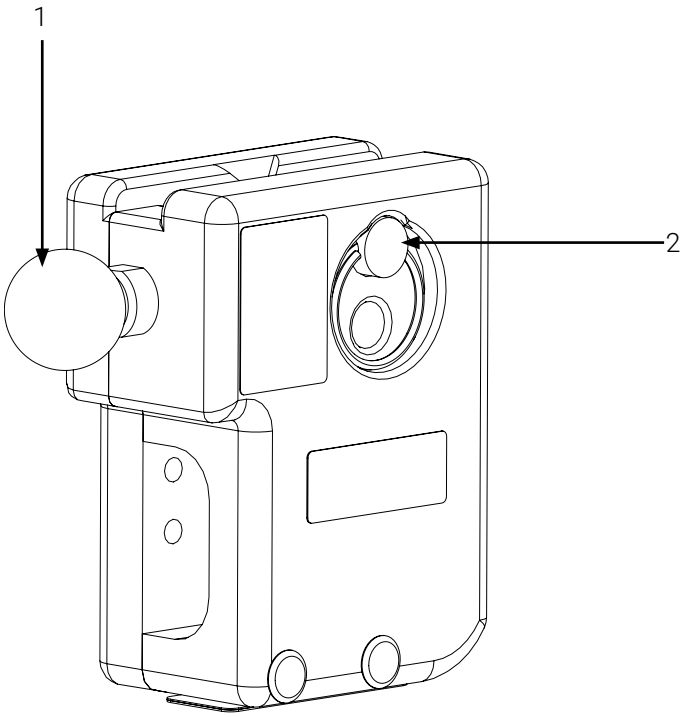
Figure 3: SAS X2 Clamp Block orientation illustration

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5. Illustrated Parts

The content in this section is intended for personnel who have a competent, proficient or advanced level of competency. Refer to the « User Competency » section on page 5 if needed.

Figure 4 illustrates the main components of the SAS X2 Clamp Block.



1. Quick-release safety pin with knob	2. Lock pin with finger ring

Figure 4: SAS X2 Clamp Block components

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6. Illustrated Dimensions

The content in this section is intended for personnel who have a competent, proficient or advanced level of competency. Refer to the « User Competency » section on page 5 if needed.

Figure 5 illustrates the dimensions of the SAS X2 Clamp Block.

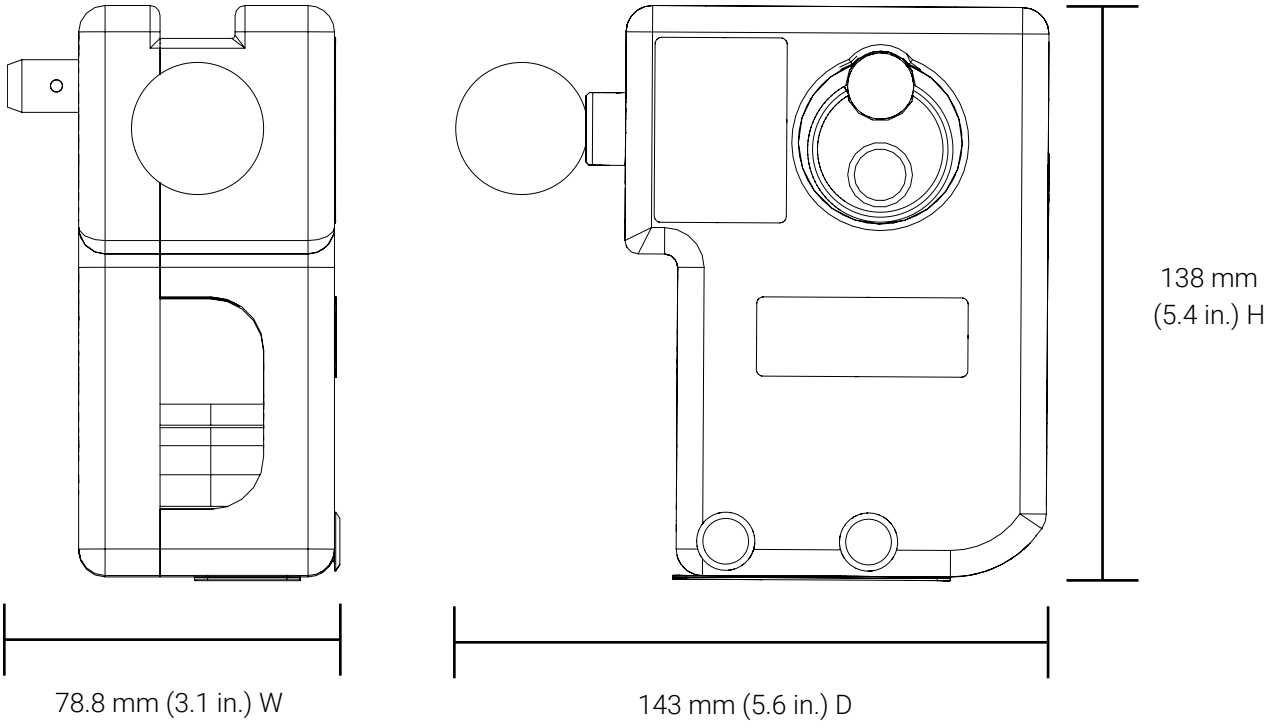


Figure 5: SAS X2 Clamp Block dimensions

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7. Safety Mechanism

The content in this section is intended for personnel who have a competent, proficient or advanced level of competency. Refer to the « User Competency » section on page 5 if needed.

The safety mechanism of the SAS X2 Clamp Block is composed of a quick-release safety pin and a lock pin. The safety mechanism activates when the triangular head of the Safety Arm System is inserted in the SAS X2 Clamp Block, then pushed down in the clamp block and the lock pin is inserted. When inserted, the knob of the safety pin can be released, locking the Safety Arm System in the clamp block (Figure 6). Refer to the Safety Arm System User Manual if needed

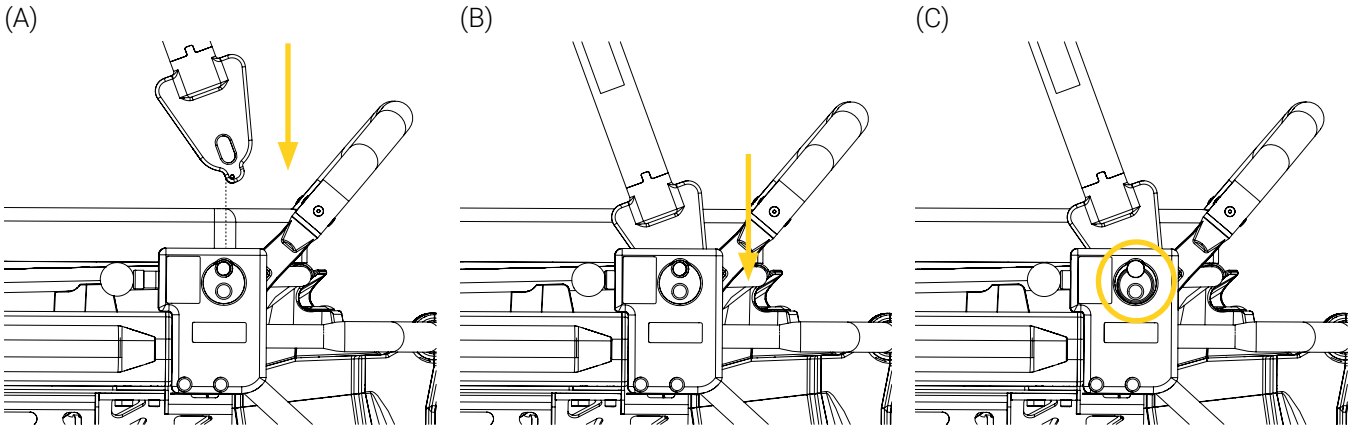


Figure 6: Activating the safety mechanism of the SAS X2 Clamp Block

The safety mechanism deactivates when the lock pin is removed and the knob of the quick-release safety pin is pulled. When pulled, the Safety Arm System is released and can be removed from the clamp block (Figure 7). Refer to the Safety Arm System User Manual if needed.

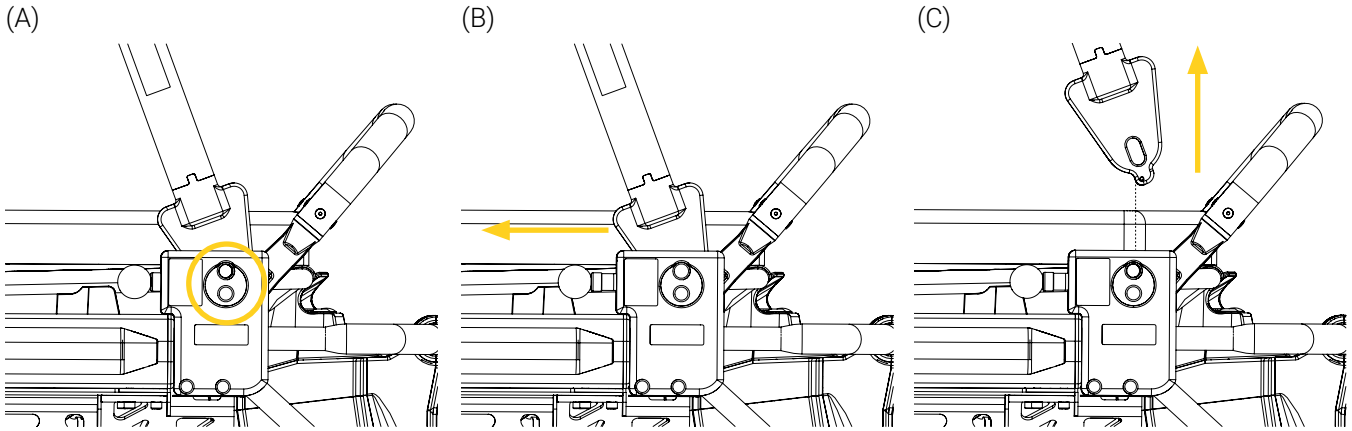


Figure 7: Deactivating the safety mechanism of the SAS X2 Clamp Block

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8. Operate the SAS X2 Clamp Block

The content in this section is intended for personnel who have a competent, proficient or advanced level of competency. Refer to the « User Competency » section on page 5 if needed.

NOTE : The illustration herein are for user-comprehension purposes and may differ from your actual configuration. The instructions apply to any compatible mounting system. Refer to the User Manual of your mounting system if needed.

8.1. Install the Safety Arm System in the SAS X2 Clamp Block

1. Pull the knob of the quick-release safety pin of the SAS X2 Clamp Block (Figure 8A), remove the lock pin using the finger ring (Figure 8B), and set it aside temporarily.

(A) (B)

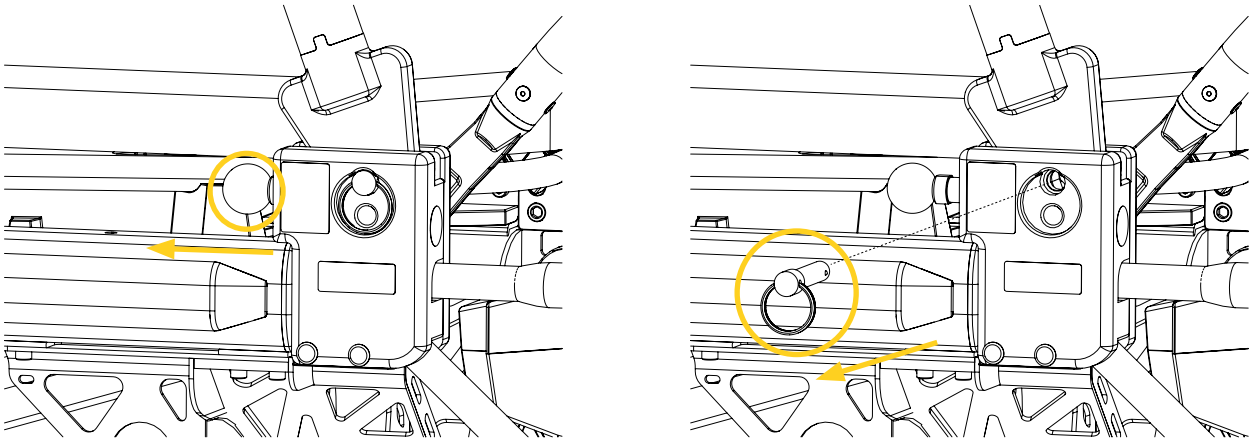


Figure 8: Removing the lock pin

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2. Pull and hold the knob of the quick-release safety pin of the SAS X2 Clamp Block (Figure 9A–1), align and insert the triangular head of the Safety Arm System in the clamp block (Figure 9A–2), then release the knob of the safety pin.

   NOTE : If the insertion holes of the triangular head and clamp block are not aligned (Figure 9B), the Safety Arm System is incorrectly inserted in the mounting system. In the correct position, the insertion holes are aligned (Figure 9C).

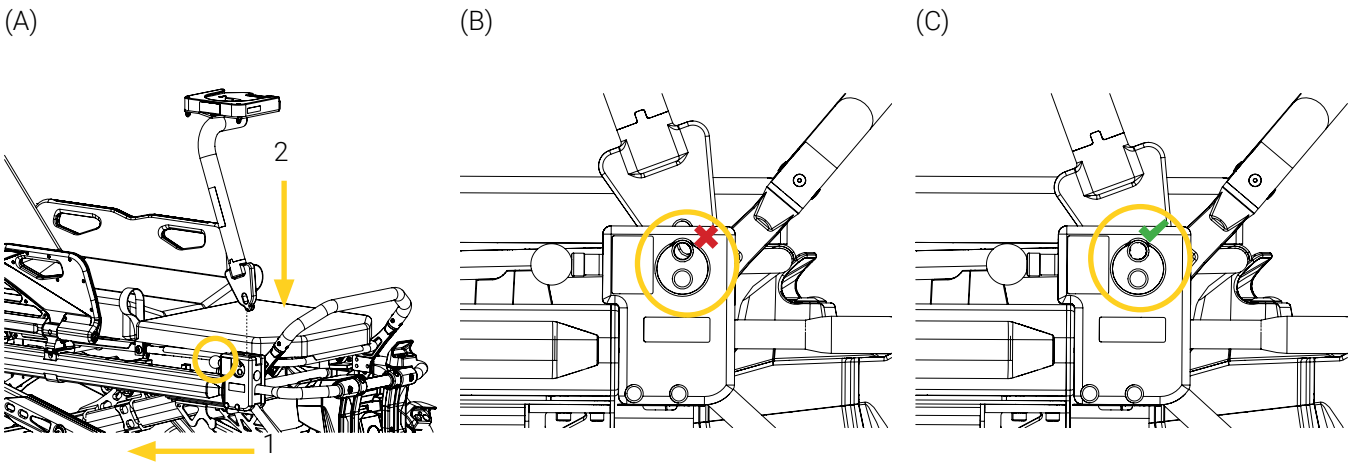


Figure 9: Installing the Safety Arm System in the SAS X2 Clamp Block

3. Reinsert the lock pin in the clamp block (Figure 10A) and push it until the finger ring is flat against the surface (Figure 10B).

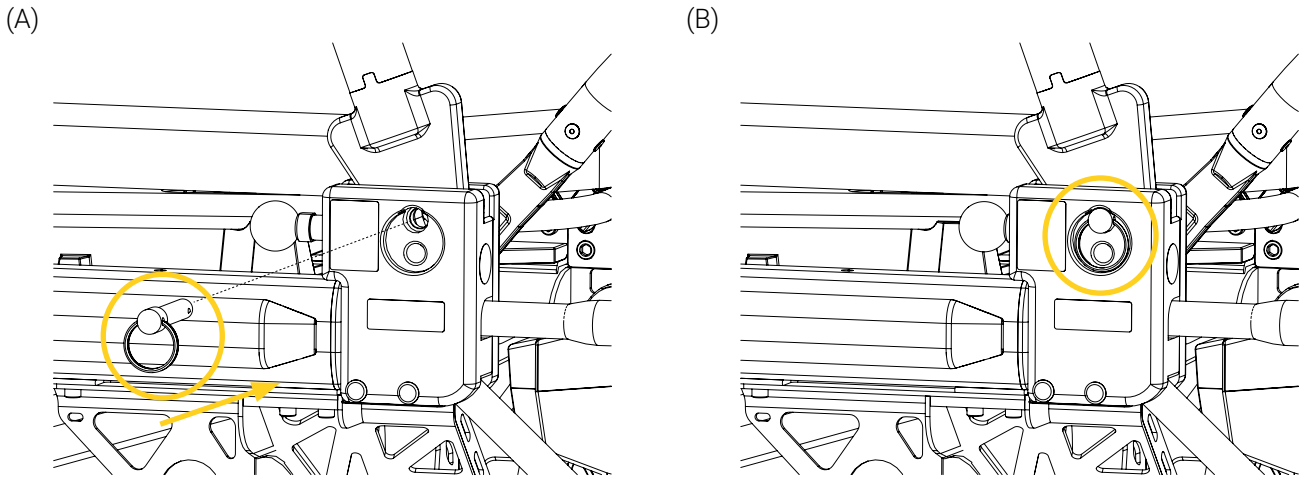


Figure 10: Reinserting the lock pin

4. Move the Safety Arm System up and down and back and forth a few times to ensure it is correctly locked and secured in the SAS X2 Clamp Block. If the Safety Arm System stays in the clamp block after the verification, it is correctly locked and secured.

The installation of the Safety Arm System in the SAS X2 Clamp Block is complete.

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8.2. Remove the Safety Arm System from the SAS X2 Clamp Block

1. Ensure that the medical device has been removed from the Safety Arm System. Refer to the User Manual of your mounting system if needed.
2. Remove the lock pin of the SAS X2 Clamp Block using the finger ring (Figure 11), then set it aside temporarily.

(A) (B)

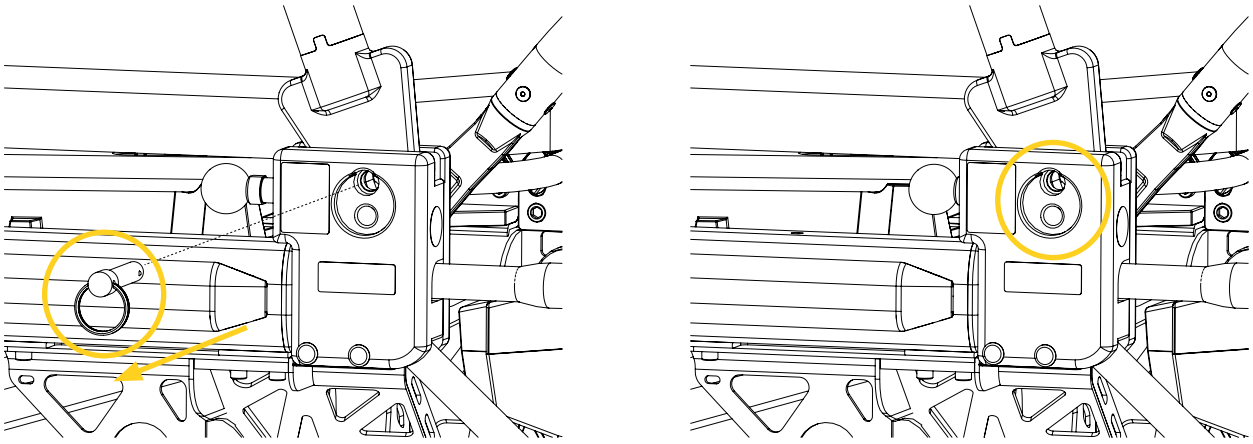


Figure 11: Removing the lock pin

3. Pull and hold the knob of the quick-release safety pin of the SAS X2 Clamp Block (Figure 12A–1), lift and remove the Safety Arm System from the clamp block (Figure 12A–2), then release the knob of the safety pin (Figure 12B).

(A) (B)

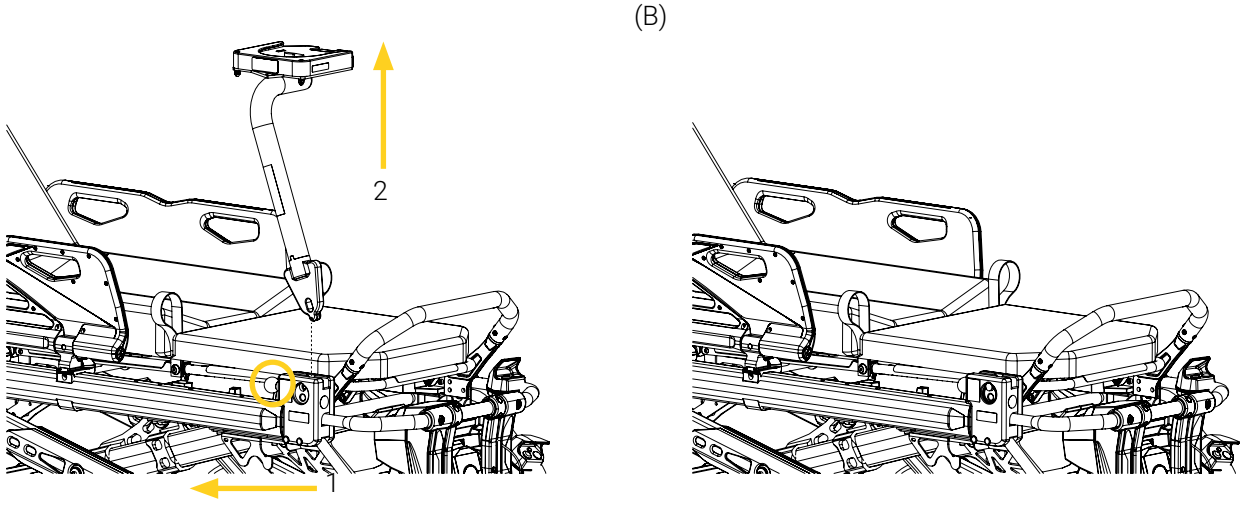


Figure 12: Removing the Safety Arm System from the SAS X2 Clamp Block

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4. Set the Safety Arm System aside on a clean surface, or place it in its dedicated storage space. Refer to your established internal protocols if needed.
5. Reinsert the lock pin in the clamp block (Figure 13A) and push it until the finger ring is flat against the surface (Figure 13B).

(A) (B)

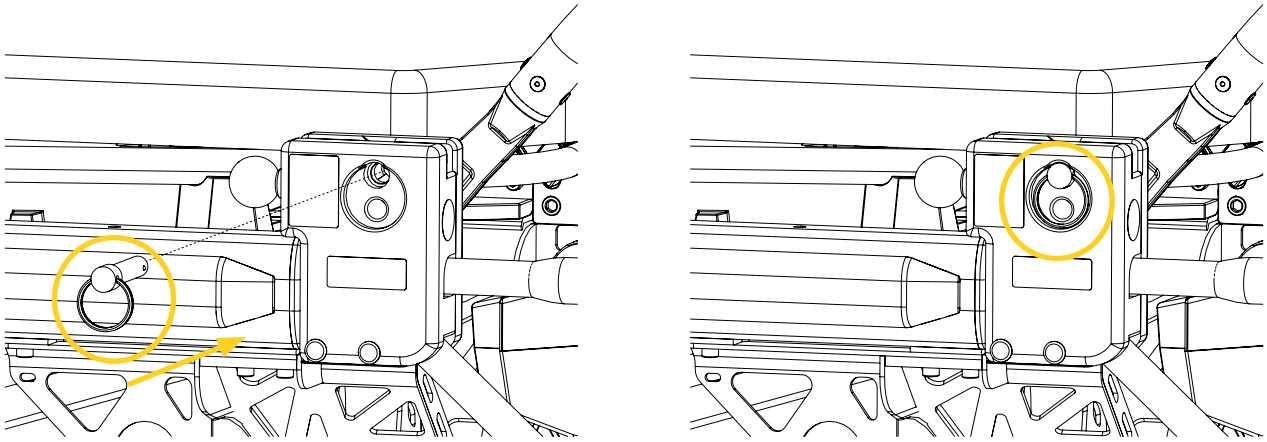


Figure 13: Reinserting the lock pin in the clamp block

The removal of the Safety Arm System from the SAS X2 Clamp Block is complete.

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Annex I Skills Assessment of the EMS and Clinical Personnel



The content in this section is intended for personnel who have a proficient level of competency. Refer to the « User Competency » section on page 5 if needed.

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 SAS X2 Clamp Block. Consider adding the following to your internal training protocols.

Trainee name: _____ Unit: _____

Assessor name: _____ Date: _____

SKILLS ASSESSMENT		
SKILL CRITERIA	PASSED	FAILED
Labelling		
- Able to identify meaning and potential risks associated with the different safety labels:		
- Manufacturing label	☐	☐
- Safe Working Load (SWL)	☐	☐
- Operating label	☐	☐
- Risk of Pinching/Crushing safety icon	☐	☐
Safety Measures		
- Knows that **under no circumstances** should the SAS X2 Clamp Block be installed on, connected to, or used in combination with any third party/competitor stretcher, mounting system, or similar equipment.	☐	☐
- Knows that the SAS X2 Clamp Block was engineered and tested exclusively for use with specific authorized and compatible Technimount components and mounting systems, and that using any other mounting systems may cause the equipment to fall, operate unpredictably, or fail.	☐	☐
- Knows that the SAS X2 Clamp Block was engineered and tested exclusively for use with specific authorized and compatible Technimount components and systems and that using any unauthorized and/or incompatible system may cause the equipment to fall, operate unpredictably, or fail.	☐	☐
- Knows **not to put their hands/fingers** near the triangular head of the Safety Arm System and SAS X2 Clamp Block during the installation/removal of the mounting system in/from the clamp block.	☐	☐

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SKILLS ASSESSMENT		
SKILL CRITERIA	PASSED	FAILED
- Knows that the SAS X2 Clamp Block should be used only for ground emergency medical services and critical care transport.	☐	☐
- Knows **not to use** the SAS X2 Clamp Block if there are any loose or missing screws.	☐	☐
- Knows to immediately stop using the SAS X2 Clamp Block if any serious incident occurs and to inform authorized personnel.	☐	☐
- Knows to always ensure that the SAS X2 Clamp Block is correctly installed and secured on the load frame of the POWER X2 stretcher before moving the stretcher and/or before installing/removing the mounting system.	☐	☐
- Knows to always ensure that the mounting system is correctly installed and secured in the SAS X2 Clamp Block before moving the stretcher.	☐	☐
- Knows to always pay close attention **not to wedge** the power cords or tubing during the installation/removal of the mounting system.	☐	☐
- Knows to always pay close attention to the SAS X2 Clamp Block's safety mechanisms.	☐	☐
- Knows to always practice safely operating the SAS X2 Clamp Block until the manipulations have been perfected, before use with patients and that improper use of the mounting system may cause damage or the equipment to fall or operate unpredictably.	☐	☐
- Knows **not to overload or exceed** the total Safe Working Load (SWL) of the SAS X2 Clamp Block.	☐	☐
- Knows that the Safe Working Load (SWL) of the SAS X2 Clamp Block **does not override** the maximum load capacity of another Technimount product or system, neither those of the mounting systems, medical devices and/or medical equipment accessories that could be installed on the clamp block.	☐	☐
- Knows to always refer to their established internal protocols, as well as read and abide by the safety guidelines and instructions provided in the user documentation of the SAS X2 Clamp Block, mounting system and stretcher.	☐	☐
Operation		
- Able to install/remove the Safety Arm System in/from the SAS X2 Clamp Block.	☐	☐

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Annex II Unpack the SAS X2 Clamp Block



The content in this section is intended for personnel who have an advanced level of competency. Refer to the « User Competency » section on page 5 if needed.

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 the items included in the shipping box(es), then set them aside. Refer to the « Install the SAS X2 Clamp Block » section on page 26 for the required parts.
6. Inspect the items for signs of damage. Take pictures and report them promptly if applicable.

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Annex III Install the SAS X2 Clamp Block

The content in this section is intended for personnel who have an advanced level of competency. Refer to the « User Competency » section on page 5 if needed.

WARNING – Risk of Injury

Always wear/use the appropriate Personal Protection Equipment (PPE) based on your established internal protocols (e.g., gloves, eyewear, etc.) during the installation.

WARNING – Incompatible Installations

Refer to the Incompatible Installations warnings in the « Safety Measures » section on page 12 before installing the SAS X2 Clamp Block.

NOTE : The illustration herein are for user-comprehension purposes and may differ from your actual configuration. The instructions apply weather the SAS X2 Clamp Block is installed on the right or left load frame of the POWER X2 stretcher.

Estimated Installation Time

15-20 minutes

Included Parts

- SAS X2 Clamp Block 410-10-FX2 and/or 410-10-FX2-LFS
- Spacer 810-00-FX2
- 1/4-20 in. X 1.25 in. L screws (3X)
- 5/16-18 in. X 1.5 in. L screws (2X)
- 1/4-20 in. X 2 in. L screws (2X)
- 5/16-18 in. X 1-1/8 in. L black oxide hex screws (3X)
- Screw caps (2X)
- 243 medium strength thread lock adhesive ( ) capsule

Customer-provided Tools/Hardware

- 1/4 in. hex key
- 3/16 in. hex key
- 6 mm hex key
- Flat-head screwdriver

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Prepare the Stretcher

NOTE : Refer to the stretcher's user documentation, to your established internal protocols and to the environmental laws that apply to your jurisdiction for the proper disposal of the part(s) if needed.

1. Apply the brakes on all four (4) wheels and remove the mattress.
2. Lift the knee gatch and lower the fold-down sidearms, if needed.
3. Remove the hardware on the load frame reinforcement plate, at patient foot end:
   - If the stretcher is equipped with a push pull lift bar, remove the six (6) black oxide hex screws, two (2) spacers and push pull lift bar on both sides of the load frame reinforcement plate using a 6 mm hex key (Figure 14).
     - Set aside the push pull lift bar, the spacer and three (3) screws removed from the side of the stretcher where there will be no installation.
     - Store or dispose of the spacer and three (3) screws on the side of the clamp block installation.
   - If the stretcher is not equipped with a push pull lift bar, remove the three (3) screw caps manually or using a flat-head screwdriver, then remove the spacer and three (3) black oxide hex screws using a 6 mm hex key (Figure 15), on the side of the SAS X2 Clamp Block installation.
     - Store or dispose of the three (3) screw caps, spacer and three (3) screws.

(A) (B)

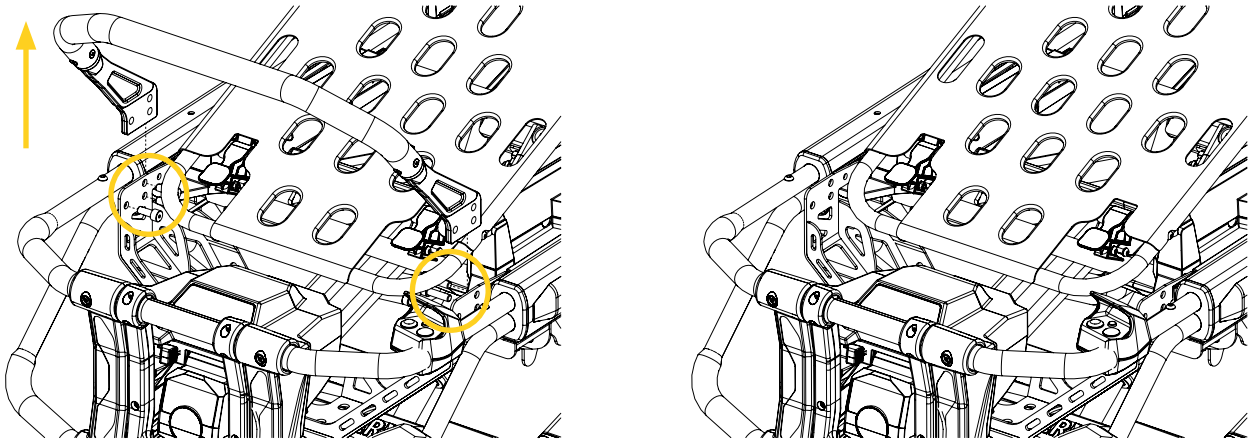


Figure 14: Removal of the push pull lift bar

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(A) (B)

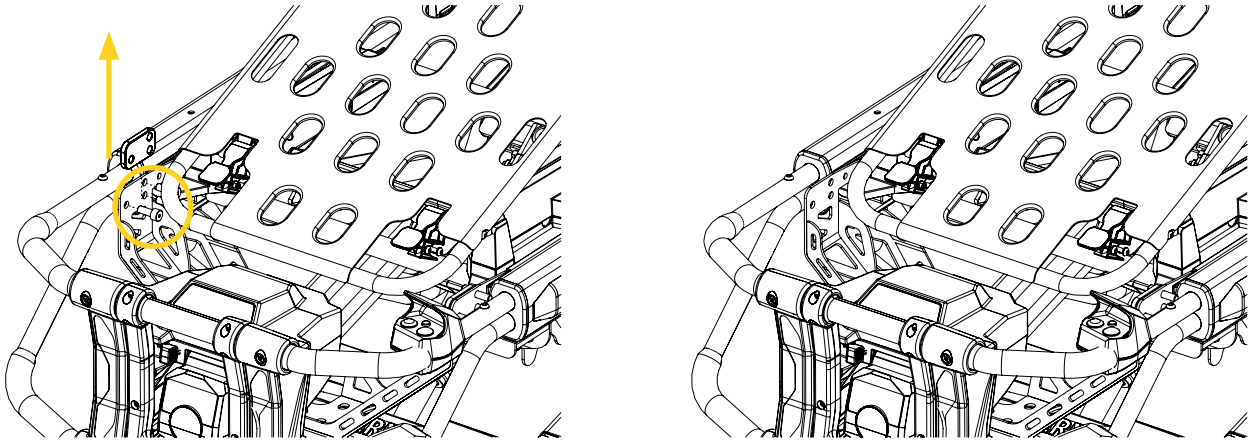
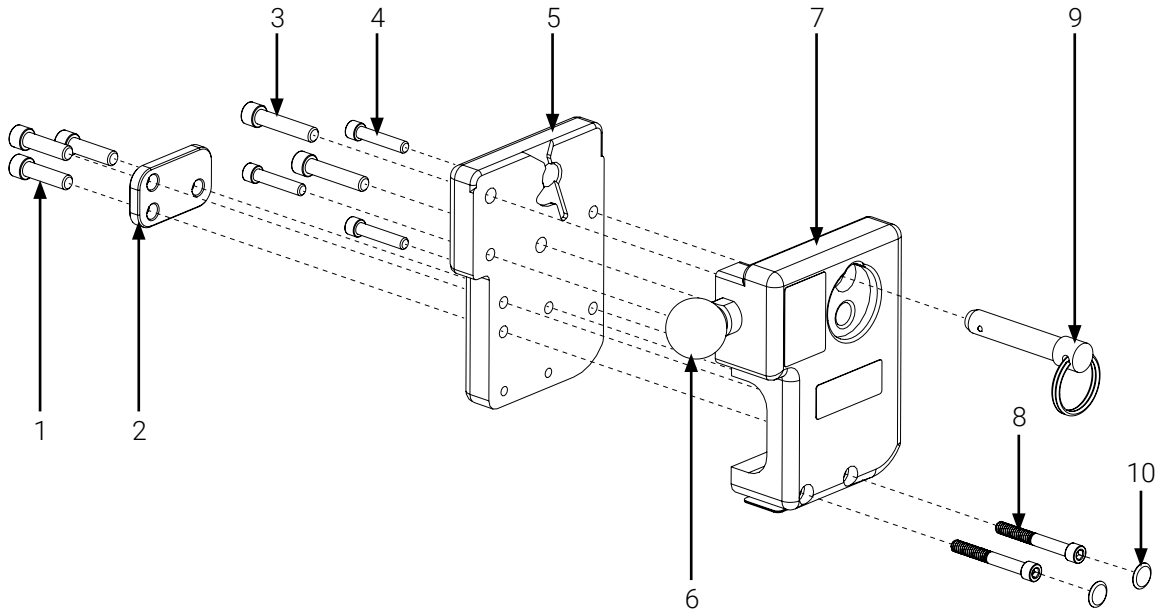


Figure 15: Removal of the spacer

The stretcher preparation is complete.

Installation Procedure

1. Identify the SAS X2 Clamp Block installation parts (Figure 16).



1. 5/16-18 in. X 1.125 in. L screw (3X)
2. Spacer (provided only if the configuration does not include a push pull lift bar)
3. 1/4-20 in. X 1.25 in. L screw (3X)
4. 5/16-18 in. X 1.5 in. L screw (2X)
5. Inner part of the clamp block
6. Quick-release safety pin with knob
7. Outer part of the clamp block
8. 1/4-20 in. X 2 in. L screw (2X)
9. Lock pin with finger ring
10. Screw cap (2X)

Figure 16: SAS X2 Clamp Block installation parts

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2. Choose on which side of the stretcher the SAS X2 Clamp Block will be installed.
3. Place the inner part of the clamp block on the inside of the stretcher rail (Figure 17A), then place the outer part of the clamp block on the outside of the stretcher rail (Figure 17B).

NOTE : In the correct orientation, the clamp block halves are pressed against the load frame at patient foot end, the lock pin insertion point is facing the outside of the stretcher and the quick-release safety pin is pointing patient head-end (Figure 18).

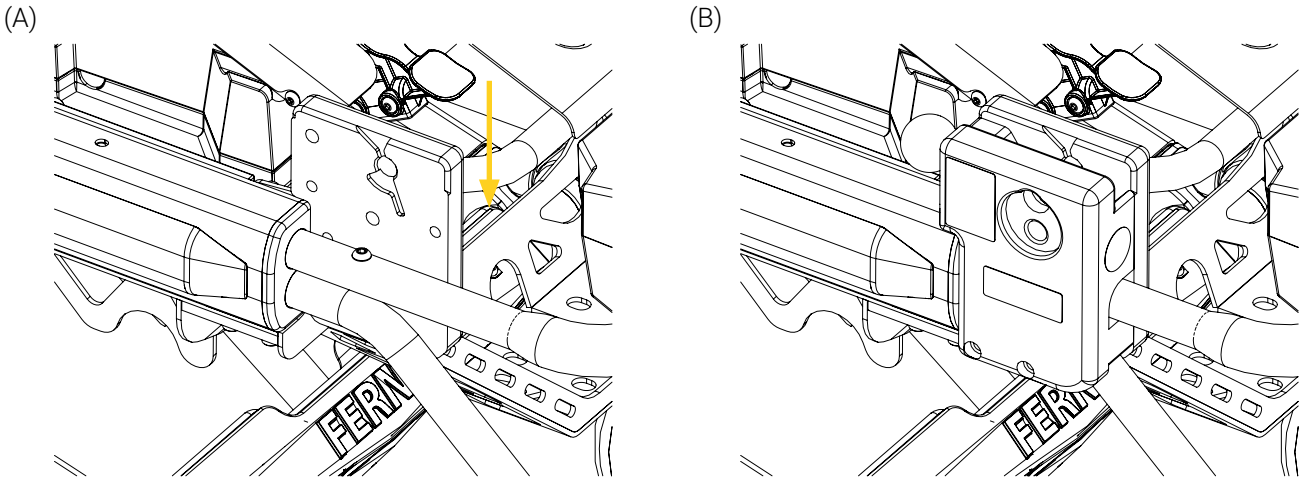
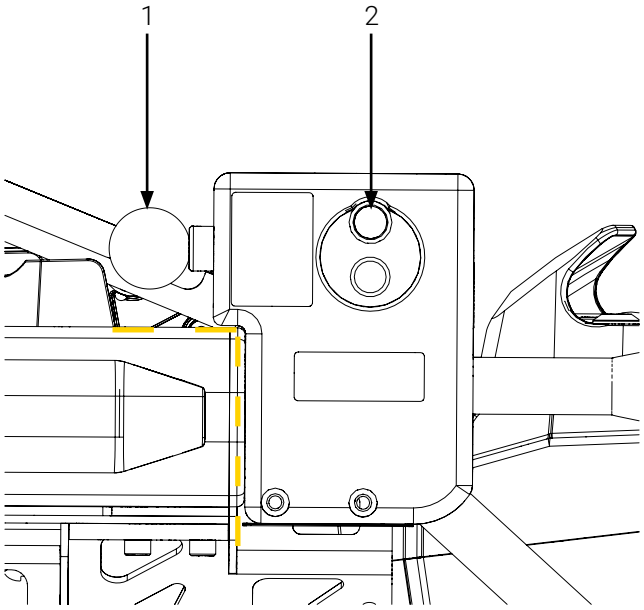


Figure 17: Installing the SAS X2 Clamp Block (1 of 4)



1. Quick-release safety pin with knob
2. Lock pin insertion point

Figure 18: Positioning the SAS X2 Clamp Block on the stretcher rail

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4. Partially tighten three (3) 1/4-20 in. X 1.25 in. L screws coated with medium strength thread-lock adhesive by hand in a cross-pattern, from the inside of the stretcher rail (Figure 19).

(A) (B)

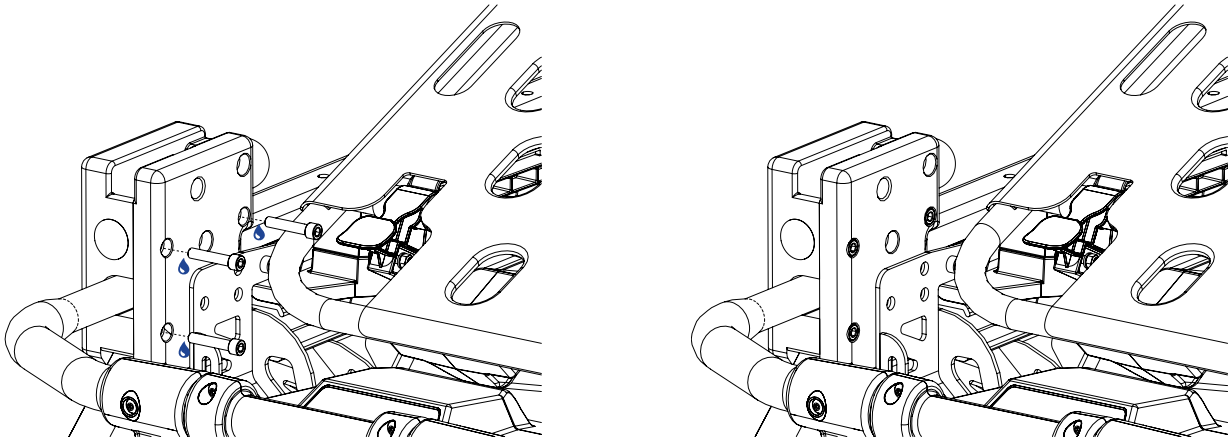


Figure 19: Installing the SAS X2 Clamp Block (2 of 4)

5. Partially tighten two (2) 5/16-18 in. X 1.5 in. L screws coated with medium strength thread-lock adhesive by hand in a cross-pattern, from the inside of the stretcher frame (Figure 20).

(A) (B)

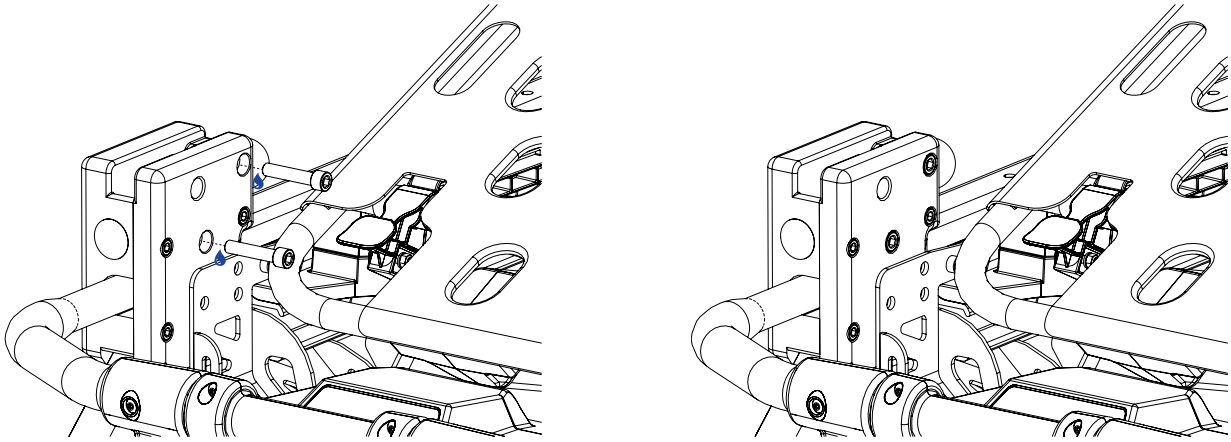


Figure 20: Installing the SAS X2 Clamp Block (3 of 4)

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6. Partially tighten two (2) 1/4-20 in. X 2 in. L screws coated with medium strength thread-lock adhesive by hand in a cross-pattern, from the outside of the stretcher frame (Figure 21).

(A) (B)

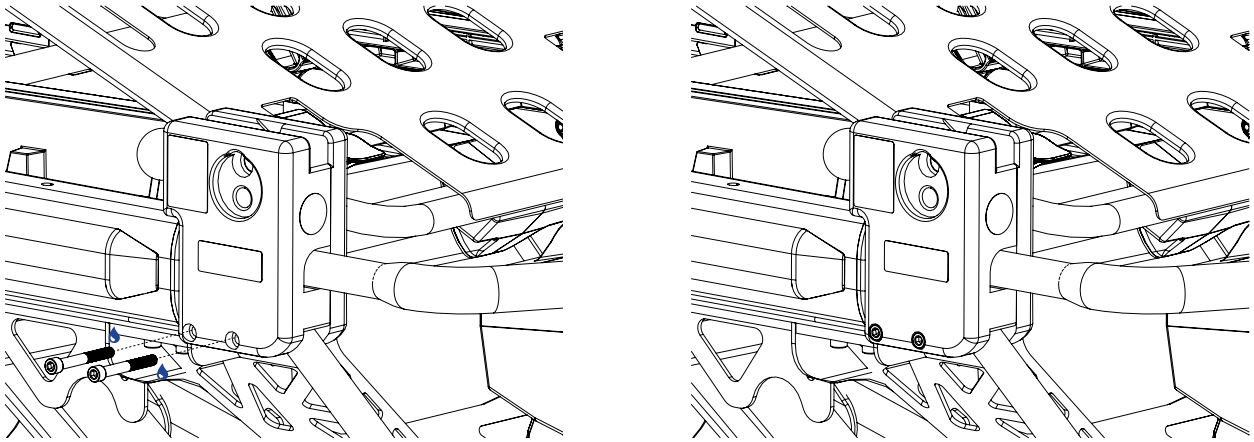


Figure 21: Installing the SAS X2 Clamp Block (4 of 4)

7. Ensure that the clamp block halves are perfectly aligned together and pressed against the load frame of the stretcher before tightening.
8. Apply a 95 lb-in. (10.7 Nm) torque on the three (3) 1/4-20 in. X 1.25 in. L screws and two (2) 1/4-20 in. X 2 in. L screws using a 3/16 in. hex key in a cross-pattern.
9. Apply a 186 lb-in (21.0 Nm) torque on the two (2) 5/16-18 in. X 1.5 in. L screws using a 1/4 in. hex key in a cross-pattern.
10. Move the clamp block from side to side a few times to ensure it is correctly tightened and secured on the rail. If the clamp block does not move during the verification, it is correctly tightened and secured.
11. Press a screw cap in each 1/4-20 in. X 2 in. L screw head (Figure 22).

(A) (B)

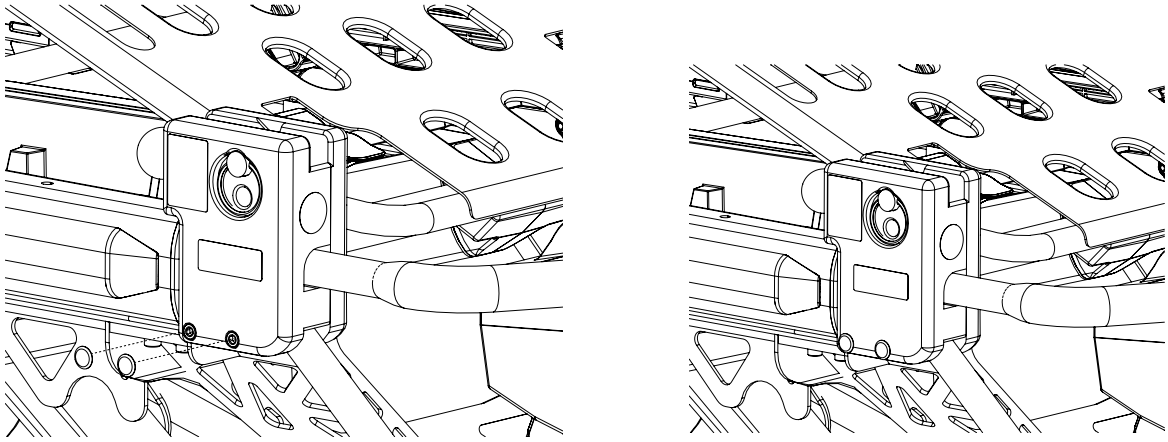


Figure 22: Installing the screw caps

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12. Install the new hardware on the load frame reinforcement plate, at patient foot end:
    - If the stretcher is equipped with a push pull lift bar,
        - Place and align the screw holes of the push pull lift bar and the screw holes of the load frame reinforcement plate, then partially tighten three (3) new 5/16-18 in. X 1-1/8 in. L black oxide screws on the side of the clamp block.
        - Place and align the screw holes of the push pull lift bar and the previously removed spacer with the screw holes of the load frame reinforcement plate on the opposite side of the stretcher, then partially tighten three (3) previously removed black oxide hex screws coated with medium strength thread-lock adhesive by hand in a cross-pattern (Figure 23).

      NOTE : If your configuration includes two (2) SAS X2 Clamp Blocks (one (1) on each side of the stretcher), the spacers will **not** be reinstalled. Store or dispose of the two (2) spacers and six (6) screws.

    - If the stretcher does not have a push pull lift bar,
        - Place and align the new spacer with the screw holes of the load frame reinforcement plate, then partially tighten three (3) new 5/16-18 in. X 1-1/8 in. L black oxide screws coated with medium strength thread-lock adhesive by hand in a cross-pattern, on the side of the clamp block (Figure 24).
        - Press the three (3) previously removed screw caps in each screw.

(A) (B)

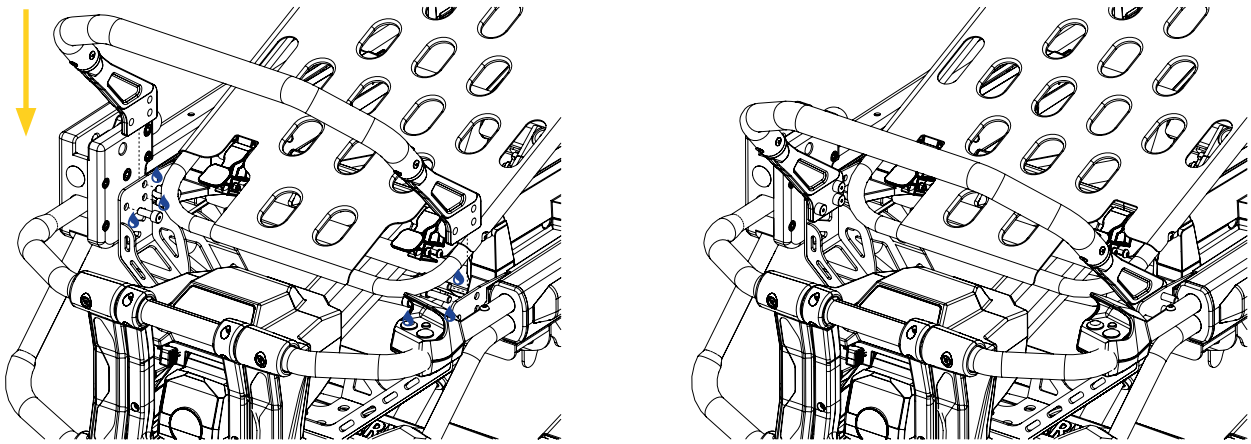
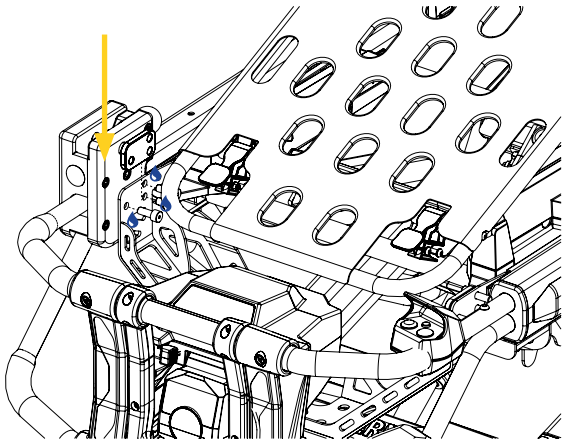


Figure 23: Installation of the new hardware – With the push pull lift bar option

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(A)



(B)

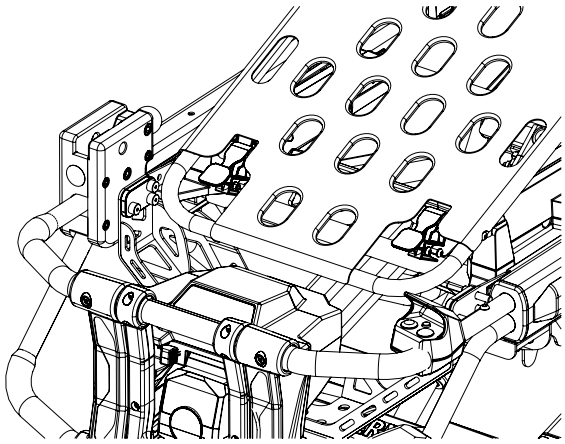


Figure 24: Installation of the new hardware – Without the push pull lift bar option

13. Apply a 186 lb-in (21.0 Nm) torque on each screw using a 1/4 in. hex key in a cross-pattern.
14. If the stretcher is equipped with a push pull lift bar, move the push pull lift bar from side to side a few times to ensure it is correctly tightened and secured on the load frame reinforcement plate. If the bar does not move during the verification, it is correctly tightened and secured.

The installation of the SAS X2 Clamp Block is complete.

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Annex IV Maintenance



The content in this section is intended for personnel who have an advanced level of competency. Refer to the « User Competency » section on page 5 if needed.

Factors such as weather, environment, geographical location and individual usage will necessitate different needs. For the maintenance of the SAS X2 Clamp Block, 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** the safety checks or the condition-based maintenance before having read the entire « Safety Measures » section on page 12 and the maintenance specific safety measures in this section, having read the entire content of this user manual, having gained in-depth knowledge and product comprehension, as well as having familiarized yourself with the standards and guidelines.
- 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 41 for the parts/kits numbers if needed). 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 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 82° C (180° F). 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 609.6 mm (24 in.) from the product.
- When cleaning, always use the appropriate Personal Protection Equipment (PPE) based on your established internal protocols (e.g., gloves, eyewear, etc.).

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CAUTION – Corrosion

- Always rinse and dry the SAS X2 Clamp Block components 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 SAS X2 Clamp Block in optimal conditions.
- Decontaminate the SAS X2 Clamp Block as recommended in your established internal protocols, as well as the regulations and standards in virtue of the infection prevention and control procedures.

Customer-Provided Tools

- Clean and dry cloth
- Soft brush
- Pressure washer
- Cleaning solutions
- 1/4 in. hex key
- 3/16 in. hex key
- Medium strength thread lock adhesive ( )

Tested and Approved Cleaning Solutions

- Oxivir, 5% Hydrogen Peroxide with Peracetic Acid (AHP)
- Lavo 12, 10 000 ppm Sodium Hypochlorite
- TNT-100, 5% Quaternary Ammonium Compound
- Spectro-Sept, 5% Ethyl Alcohol
- Spectrol, 5% EDTA salt

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Maintenance Plan

1. Check the boxes upon completion of the « Safety Checks » section on page 36 and the « Condition-Based Maintenance » section on page 37, then add your comments and/or observations in the « Maintenance Log » section on page 38 if needed. In case of a non-conformity, immediately stop using the SAS X2 Clamp Block and contact Technical Support at techsupport@technimount.com for a remedial action plan.
2. Keep records of your maintenance activities.

SAFETY CHECKS	CHECKED
SAS X2 Clamp Block (Figure 25 and Figure 26)	
- Visually inspect all the components of the SAS X2 Clamp Block to ensure that the hardware is in good condition and there are no loose screws. • *If the hardware is not in good condition, replace it. Contact Technical Support if needed.* • *If the screws are loose, tighten them. Refer to the Safety Arm System user Manual.*	☐
- Visually inspect all the components of the SAS X2 Clamp Block to ensure there is no chemical attack. • *If there are traces of chemical attack, clean the mounting system. Refer to the « Condition-Based Maintenance » section on page 37 if needed.*	☐
- Pull/release the quick-release safety pin of the SAS X2 Clamp Block a few times to ensure proper functioning of the mounting system's safety mechanism. • *If the safety pin does not retract easily or a resistance in felt when it is pulled, there is a non-conformity.* • *If the safety pin does not return to its initial position in the clamp block when it is released, there is a non-conformity.*	☐
- Install/remove the lock pin in/from the SAS X2 Clamp Block a few times to ensure proper functioning of the mounting system's safety mechanism. • *If the lock pin cannot be easily removed or a resistance in felt when it is pulled, there is a non-conformity.* • *If the lock pin is warped and/or damaged, there is a non-conformity.* • *If the lock pin cannot be easily installed or a resistance in felt when it is inserted, there is a non-conformity.*	☐
- Install/remove the Safety Arm System in/from the SAS X2 Clamp Block a few times to ensure proper functioning of the mounting system's safety mechanism. • *If the Safety Arm System not does not lock when the lock pin is inserted and the quick-release safety pin is released, and/or cannot be removed when lock pin is removed and the quick-release safety pin is pulled, there is a non-conformity.*	☐
- Install the Safety Arm System in the SAS X2 Clamp Block, then pull it upwards a few times to ensure proper functioning of the mounting system's safety mechanism. • *If the Safety Arm System does not stay in the clamp block when it is pulled, there is a non-conformity.*	☐

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SAFETY CHECKS	CHECKED
- Look at the manufacturing label to ensure that specifications are still visible and that the SAS X2 Clamp Block has not passed its expected service life. Refer to the « Labels » section on page 10 and to the « Technical Specifications » section on page 14 if needed. • *If the estimated period of safe and reliable use has passed, there is a non-conformity.*	☐
- Look at the operating label to ensure that illustrations and safety icon are still visible. Refer to the « Labels » section on page 10 and to the « Technical Specifications » section on page 14 if needed. • *If the illustrations and/or the safety icon are no longer visible, there is a non-conformity.*	☐

CONDITION-BASED MAINTENANCE	CHECKED
Clean the SAS X2 Clamp Block, after you have completed the safety checks: 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 SAS X2 Clamp Block components 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 Safety Arm System, after you have completed the safety checks and conditioned-based maintenance of the SAS X2 Clamp Block. Refer to the User Manual of the mounting system if needed.	☐

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MAINTENANCE LOG

Add your comments and/or observations, after you have completed the safety checks and condition-based maintenance, if needed:

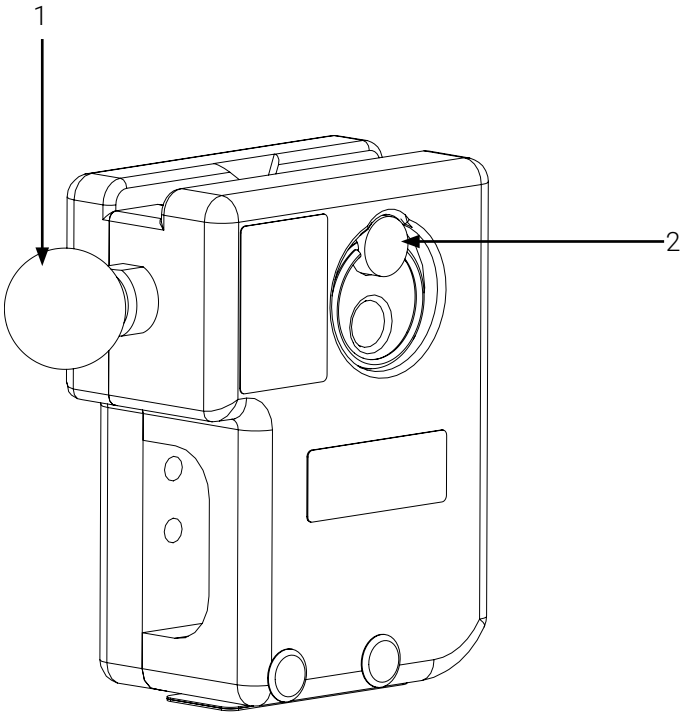
Maintenance plan completed on (dd/mm/yyyy): _____

Maintenance plan completed by: _____

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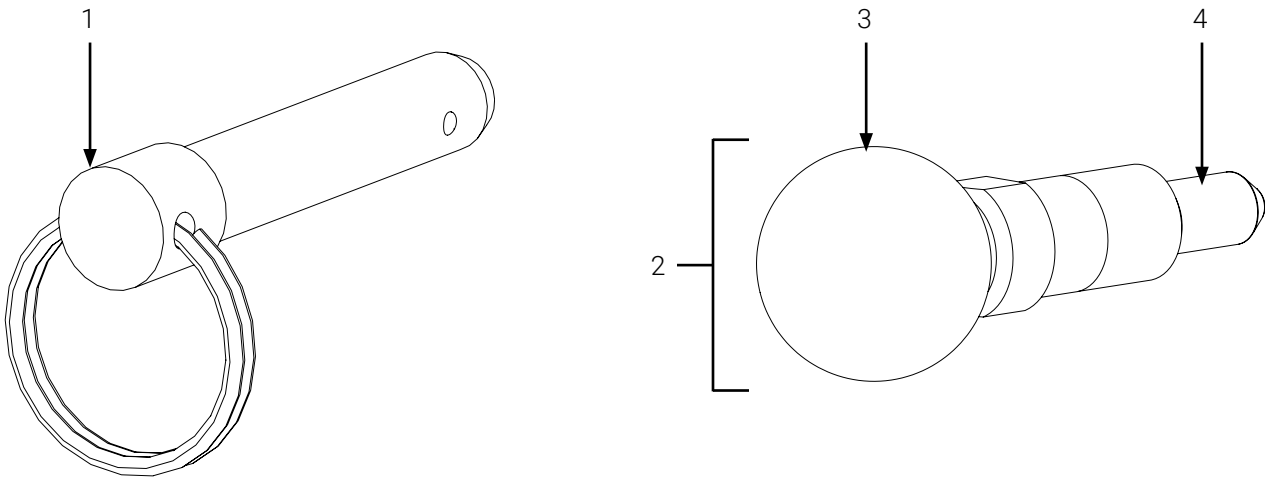
Illustrated Inspection Points

Figure 25 and Figure 26 illustrate the points of inspection of the SAS X2 Clamp Block.



1. Quick-release safety pin with knob
2. Lock pin with finger ring

Figure 25: Illustrated inspection points (1 of 2)



1. Lock pin with finger ring
2. Quick-release safety pin with knob
3. Red knob (Quick-release safety pin)
4. Pin (Quick-release safety pin)

Figure 26: Illustrated inspection points (2 of 2)

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Annex V Replacement Parts/Kits



The content in this section is intended for personnel who have a, proficient or advanced level of competency. Refer to the « User Competency » section on page 5 if needed.

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 #	PART/KIT #	PART/KIT DESCRIPTION	REPLACEMENT PROCEDURE
Figure 26, #1	910-00-UN	Lock pin with finger ring	Refer to replacement procedure IN-RPRC-LP-202607EN-01
Figure 26, #4	991-00-UN	Pin (quick-release safety pin of the SAS X2 Clamp Block/ PP2 Clamp Block)	Refer to replacement procedure IN-RPRC-SP-202610EN-02
N/A	922-00-UN	Spring (Quick-release Safety Pins)	Refer to replacement procedure IN-RPRC-SP-202610EN-02
N/A	810-00-FX2	SAS X2 Spacer	Refer to « Install the SAS X2 Clamp Block » section on page 26, follow the steps until the spacer is removed, then install the replacement part.
Figure 26, #3	921-00-UN	Red knob (Quick-release Safety Pins)	Refer to replacement procedure IN-RPRC-SP-202610EN-02

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