Orthopedic Trauma Top

Owner's Manual

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1 Important Notices

CAUTION: To ensure safe operation of the equipment, please READ THESE INSTRUCTIONS COMPLETELY and keep this manual readily available for future reference.

CAUTION: Trained personnel must also read the NW0646 Advanced Control Base Owner's Manual in its entirety to properly and safely operate the equipment.

Carefully observe and comply with all warnings, cautions, and instructions placed on the equipment or described in this manual and in the NW0646 Advanced Control Base Owner's Manual.

NOTE: *This device is intended for use by trained personnel only. To schedule an in-service, please contact your Mizuho OSI sales representative, local distributor, or call **1-800-777-4674** within the USA or **+1-510-429-1500** outside the USA.*

NOTE: *The application techniques outlined in these instructions are the manufacturer's suggested techniques. The final disposition of each patient's care as related to the use of this equipment rests with the attending surgeon.*

In this manual, the following symbols are used:

Table 1: Symbols and their Meanings

Symbol	Meaning
EC REP 5.1.2 Authorized representative in the European Community[1]	This symbol indicates an authorized representative in the European Community.
CH REP CH-Rep symbol[7]	This symbol indicates the authorized representative in Switzerland.
CE CE marking[6]	This symbol indicates the product is in conformity with European Community harmonization legislation.
UK CA UKCA marking[8]	This symbol indicates the product is in conformity with the requirements of the relevant Great Britain (UK) legislation.

Table 1: Symbols and their Meanings *(Continued)*

Symbol	Meaning
 5.7.7 Medical Device[1]	This symbol indicates a medical device.
 3082 Manufacturer[2]	This symbol indicates the Manufacturer of the device.
 2497 Date of manufacture[2]	This symbol indicates the Date of manufacture.
NOTE:	This symbol indicates a comment or instruction of importance.
 0434B Caution[2]	This symbol signifies CAUTION. It is intended to alert the user to consult the documentation for safety-related information, such as warnings and precautions that cannot, for a variety of reasons, be presented on the device itself.
 W001 General warning sign[3]	This WARNING symbol is intended to alert the user to important operation, maintenance, or safety instructions.
 WEEE symbol[5]	This symbol indicates proper disposal instructions.
 2493 Catalog number[2]	This symbol indicates a product number.
 2498 Serial number[2]	This symbol indicates a serial number.
 1135 Batch code[2]	This symbol indicates a lot number.
 M002 Refer to instruction manual/ booklet[3]	This symbol indicates that you need to read the owner's manual before use.

Table 1: Symbols and their Meanings *(Continued)*

Symbol	Meaning
 5840 Type B applied part[4]	This symbol indicates this equipment is an applied part TYPE B in accordance with IEC 60601-1 and is generally suitable for applications involving external or internal contact with the patient, excluding the heart. The patient circuit is connected to protective earth and this equipment should be connected only to hospital grade AC outlets with a protective earth ground.
 0632 Temperature limits[2]	This symbol indicates a temperature limitation.
	This symbol indicates rotation in two directions.
	This symbol indicates rotation in one direction.
 5569 Locking, general[4]	This symbol indicates the Locked state.
 5570 Unlocking, general[4]	This symbol indicates the Unlocked state.
	This symbol indicates the Table Weight Limit.

[1] Standard symbol from "ANSI/AAMI/ISO 15223-1: Medical devices -- Symbols to be used with information to be supplied by the manufacturer -- Part 1: General requirements."

[2] Standard symbol from "ISO 7000 Graphical symbols for use on equipment."

[3] Standard symbol from "ISO 7010: Graphical symbols -- Safety colours and safety signs -- Registered safety signs."

[4] Standard symbol from "IEC 60417 Graphical symbols for use with Equipment."

[5] Symbol from "Directive 2012/19/EU."

[6] Symbol from Regulation (EC) No 765/2008.

[7] Symbol from "Medical Device Ordinance of 1 July 2020; SR 812 213."

[8] Symbol from "The Product Safety and Metrology etc. (Amendment etc.) (EU Exit) Regulation 2019, Schedule 33."



WARNING: Proper preoperative and intra-operative procedures must be followed to prevent venous stasis and pooling, pressure sore development, neuropathy, improper electro-surgical tissue grounding, hypertension, and hypothermia.



WARNING: Use of the REF 5855 Orthopedic Trauma Top with patients weighing more than 500 lbs (227 kg) could result in damage to the table, possible injury to the patient, or harm to the healthcare professionals.



WARNING: The table top will only support the specified patient weight when installed patient side up (Patient Weight Limit label and Table Top Handles are visible) to the Crossbar, as described in Section 6. Placing a patient on a table top that is not installed as described could result in damage to the table, possible injury to the patient, or harm to the healthcare professionals.



WARNING: Patient must be restrained at all times by safety strap(s) when placed on the table top.



WARNING: Do not perform any service or maintenance work on the device while it is in use with a patient. Servicing the device while in use may cause injury to the patient.



WARNING: The REF 5855 Orthopedic Trauma Top is to be used by personnel that receive training from either Mizuho OSI or from someone qualified by the medical facility to provide this training. Failure to comply with this requirement may result in damage to the device, possible injury to the patient, or harm to the healthcare professionals.



WARNING: Before and after each use, inspect the table top, components, and accessories for possible damage , excessive wear, or non-functioning parts. Carefully inspect all critical, accessible areas, joints, and all moveable parts for possible damage or non-function. Damaged or defective parts should not be used or processed. Contact Mizuho OSI Service for necessary repair or replacement (see Section 10)



WARNING: The REF 5855 Orthopedic Trauma Top in conjunction with the Advanced Control Base should not be operated in the presence of flammable anesthetics, volatile substances, or other explosive gases, liquids, or atmospheres.



WARNING: Use of components not manufactured or recommended by Mizuho OSI may result in harm to the patient, the device, or healthcare professionals.



CAUTION: No modification of the REF 5855 Orthopedic Trauma Top is allowed. Any modification to the equipment may result in damage to the table, possible injury to the patient, or harm to the healthcare professionals.

CAUTION: As outlined in the AORN Recommended Practices for Positioning a Patient in the Perioperative Setting, following the positioning of the patient, an assessment of the patient's alignment, tissue perfusion, and skin integrity should be completed. All contact points of the patient with the table pads should be monitored during the procedure.

NOTE: *If high-frequency surgical equipment, cardiac defibrillators, or cardiac defibrillator monitors are to be used with the REF 5855 Orthopedic Trauma Top, refer to the instructions for use provided by the manufacturer of those devices. Potential hazards that must be considered include, but are not limited to, patient burns, explosion hazards, and electric shock of the patient or operator.*

NOTE: *(European Union) Any serious incident that has occurred in relation to the device should be reported to the manufacturer and the competent authority of the Member State in which the user and/or patient is established.*

1.1 Trademarks

GentleTouch® and OrangeAid® are registered trademarks of Mizuho OSI.

Tempur-Pedic® is a registered trademark of Tempur-Pedic North America, Inc.

Velcro® is a registered trademark of Velcro Industries.

1.2 Disposal of Electrical Components



In accordance with the European Union Waste Electrical and Electronic Equipment (WEEE) Directive, all electrical components, batteries, and carbon composite components must be disposed of in accordance with local regulations or returned to Mizuho OSI for proper disposal. Please contact Mizuho OSI Service at **1-800-777-4674** inside the USA or **+1-510-429-1500** outside the USA for further information regarding this requirement.

2 Introduction

2.1 General Description

The Mizuho OSI Orthopedic Trauma Top is designed to safely hold in proper position a patient undergoing orthopedic surgical procedures including supine position for Hip Pinning or IM Nailing of the Femur or Tibia, and lateral decubitus position for IM Nailing of the Femur. The Orthopedic Trauma Top is capable of pulling both skin and skeletal traction and is designed to be used in conjunction with Mizuho OSI Advanced Control Base REF 5803.



Figure 1: Orthopedic Trauma Top mounted on the Advanced Control Base

WARNING: This manual assumes the user has read the Advanced Control Base Owner's Manual and is thoroughly familiar with its operation. Do not proceed if you do not know how to operate the Base.

The table top has a 2" (5 cm) Mizuho OSI Tempur-Pedic® Medical Pad. The material used in the manufacture of Mizuho OSI Tempur-Pedic® pads has viscoelastic properties and is temperature-sensitive, becoming softer where the patient's body is making the most contact with the surface and remaining firm in areas where less body contact is being made. Peak pressures are reduced over the entire surface area. The pad is radiolucent and is not made with natural rubber latex. The benefits of using the Mizuho OSI Tempur-Pedic® Medical Pads are improved pressure redistribution, reduced shear forces, and enhanced patient comfort.

CAUTION: In accordance with AORN recommendations, it is important to limit skin exposures to lower ambient temperatures, protect the patient by initiating passive warming interventions (e.g. applied forced-air warming systems, blankets, drapes, and reflective composites), and to maintain an ambient room temperature of 20° to 23°C.

CAUTION: The Orthopedic Trauma Top consists of carbon composite components; care must be used when handling this device. When attaching additional components to the carbon composite side rails, it is recommended that the Universal Side Rail Adapter is used. Failure to use this adapter may result in damage to the table, or harm to the patient or healthcare professionals.

NOTE: *When the large Foot-End Traction Arc is attached to the Base, the lateral roll function of the base is automatically rendered inactive to improve stability of the table assembly during use or function. Refer to the Advanced Control Base Owner's Manual for operating instructions of the Base.*

WARNING: If the lateral roll (tilt function) is not rendered inactive when the Traction Arc is installed, contact Mizuho OSI to remedy this action. Failure to ensure non-action may cause harm to the table, patient, and/or healthcare professionals.

2.2 Intended Use

The Orthopedic Trauma Top is intended for and designed to provide patient comfort and enhanced patient positioning for orthopedic surgery. The Mizuho OSI Orthopedic Trauma Top is designed for adult and pediatric patients with body weight less than 500 lbs (227 kg).

2.3 User Profile

The Orthopedic Trauma Top is suitable for use by healthcare professionals, including but not limited to surgeons, radiologists, anesthesiologists, circulating nurses, surgical technicians, biomedical technicians, and radiology technicians.

2.4 Training Requirements and Description

Before using theOrthopedic Trauma Top the operator must have read the following documents:

- NW0646 Advanced Control Base Owner's Manual
- NW0648 Orthopedic Trauma Top Owner's Manual

It is required that personnel using this device and related accessories receive training by either Mizuho OSI or by someone qualified by the medical facility to provide this training.

WARNING: Failure to ensure training prior to use of this device may cause harm to the patient, healthcare professional, or the device.

2.5 Conditions of Use

The Orthopedic Trauma Top used in conjunction with the Advanced Control Base may be used several times throughout the day and night in medical facilities; e.g. hospitals, and outpatient surgery/imaging centers. The Orthopedic Trauma Top with the Advanced Control Base will be used in an operating room or other treatment room, and may be rolled between rooms, but shall not be used as a gurney to transport patients.

2.6 Product Lifetime

The product design life is ten (10) years. At the time of delivery, your product fulfills existing regulations and standards. However, despite proper use, routine inspection, prescribed service, maintenance, and repairs, the product is subject to aging and wear. The product's functionality depends on many factors, including but not limited to frequency of use, maintenance and servicing, and how it's used. Therefore, Mizuho OSI recommends that the table undergo authorized preventative maintenance and repair throughout its lifetime. Contact Mizuho OSI Service for product end-of life disposal instructions (see Section 10). For product warranty information, see Section 10.5.

NOTE: *Expected end-of-life for Tempur-Pedic® Medical Pads is three (3) years or sooner, based on use and care.*

2.7 Specifications

The Orthopedic Trauma Top has the following specifications:

- Designed to hold a maximum patient load of 500 lb (227 kg).
- The length of the table top is 84 in. (213 cm).
- The width of the table top is 21.5 in. (55 cm).
- The table top is made of carbon fiber.

The 5803 Advanced Control Base has the following specifications:

- The table top to floor height is 34 to 48 in. (86.4 to 122 cm).
- The Base width is 32 in. (81 cm).
- The Retractable Base length is 64 to 102 in. (163 to 259 cm).
- The Trendelenburg/reverse Trendelenburg is 0 to 10 degrees (±3 degrees).
- The Lateral Tilt is 0 to 25 degrees (±3 degrees).
- The patient weight capacity is 500 lb (227 kg).

Installation of the Orthopedic Trauma Top allows the full range of Trendelenburg/Reverse Trendelenburg and Lateral Tilt provided by the Advanced Control Base. Once the Traction Arc is installed, Lateral Tilt functionality is automatically disabled.

NOTE: *Refer to NW0646 Advanced Control Base Owner's Manual for Trendelenburg/Reverse Trendelenburg and Lateral Tilt specifications.*

WARNING: If the lateral roll (tilt function) is not rendered inactive when the Traction Arc is installed, contact Mizuho OSI to remedy this action. Failure to ensure non-action may cause harm to the table, patient, and/or healthcare professionals.

2.8 Shipping and Storage

If required to be transported, the Orthopedic Trauma Top must be transported using the appropriate shipping crate.

When not in use, the Orthopedic Trauma Top should be stored in a clean, dry environment.

The following conditions are required of the shipping and/or storage environment:

- Ambient temperature: 32°F (0°C) to +104°F (40°C)
- Relative humidity: 10% to 95%, non-condensing
- Atmospheric pressure: from 75 to 105 kPa

When in storage, the table cover provided serves as a dust cover and should be used.

2.9 Glossary of Terms

Head-End of the base	Indicates the end of the table where the Power Cord and "On-Off" Power Switch are located.
Foot-End of the base	Indicates the opposite end of the table from the Head-End.
Left Side of the base	Refers to the left side as you stand at the Head-End of the table.
Right Side of the base	Refers to the right side as you stand at the Head-End of the table.
Column	Refers to one of two main column structures that support the tabletop.
Lower the Column	Refers to lowering the height of the column. This also corresponds to Height Down.
Raise the Column	Refers to raising the height of the column. This also corresponds to Height Up.
Reverse Trendelenburg	Refers to lowering the Foot-End below the Head-End.
Trendelenburg	Refers to lowering the Head-End below the Foot-End.
G.M. Boards	Left and right G.M. or (Gluteus Maximus) Boards. Refer to Section 5.1.

3 Component Identification

3.1 Orthopedic Trauma Top

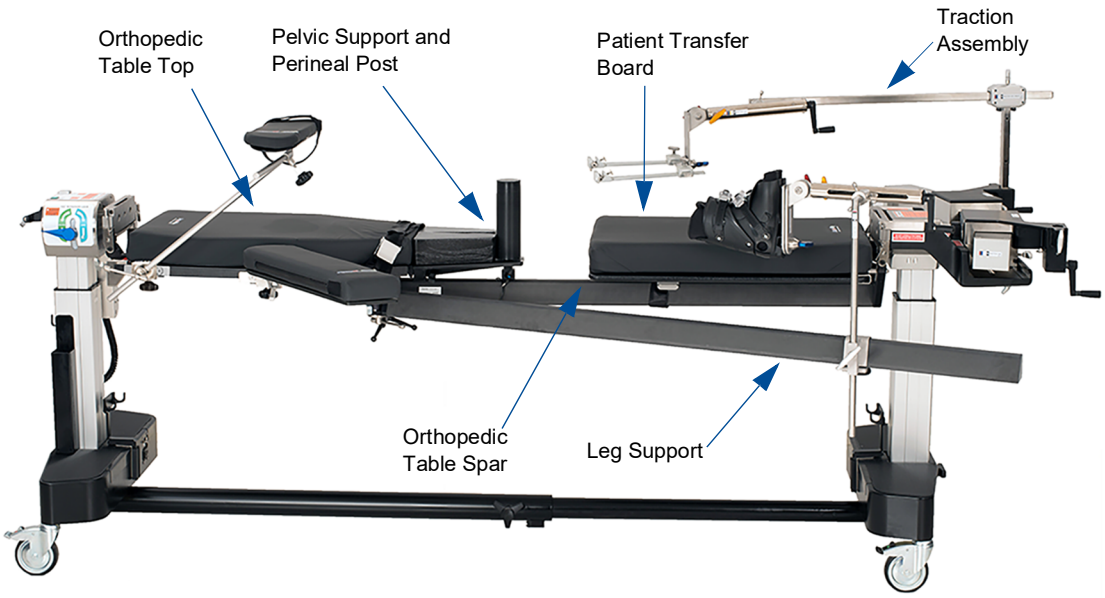


Figure 2: Orthopedic Trauma Top mounted to Advanced Control Base

The Orthopedic Trauma Top consists of the Orthopedic Table Top at the Head-End and the Orthopedic Table Spar at the Foot-End. The Orthopedic Table Top has a 2-inch (5 cm) thick Mizuho OSI Tempur-Pedic® Medical Pad to support the patient's upper body. The Orthopedic Table Spar provides a point of attachment for various components and accessories to support the patient's lower extremities.

3.2 Traction Assembly

3.2.1 Traction Arc

When traction is required for a surgical procedure, it is necessary to attach the Traction Arc to the Foot-End Column of the Advanced Control Base. The Traction Arc allows for attachment and adjustment of various traction accessories.

NOTE: *See Section 6.3 for instructions on attaching the Traction Arc to the Advanced Control Base.*

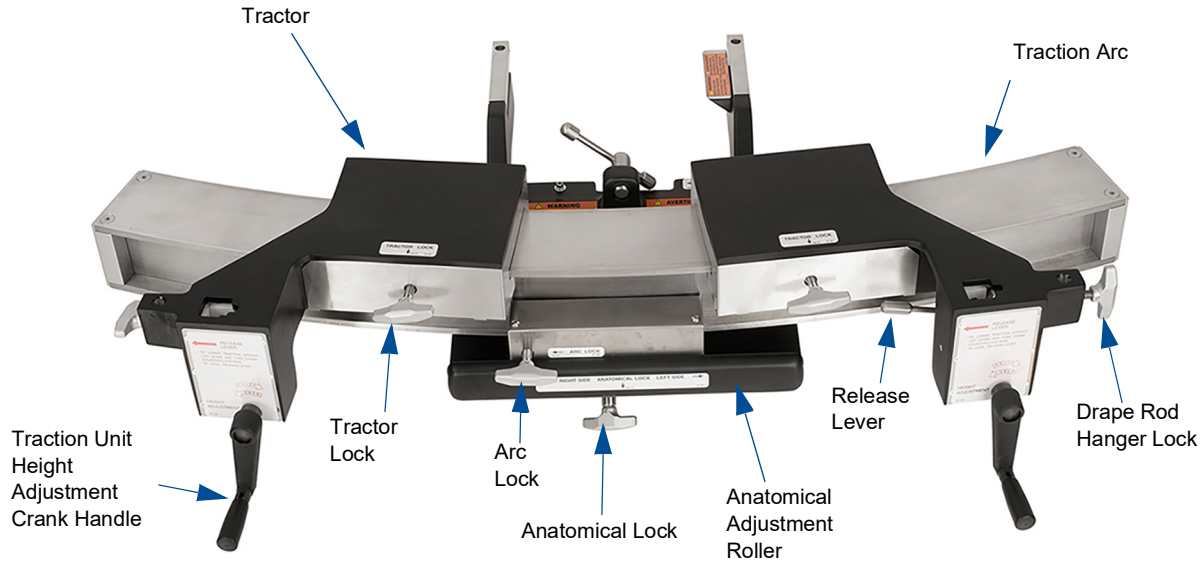
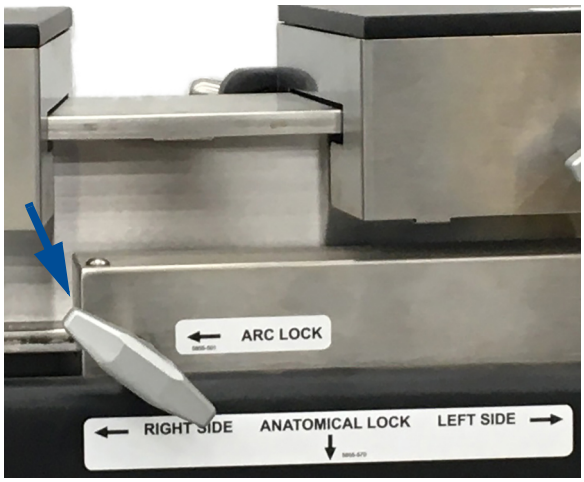
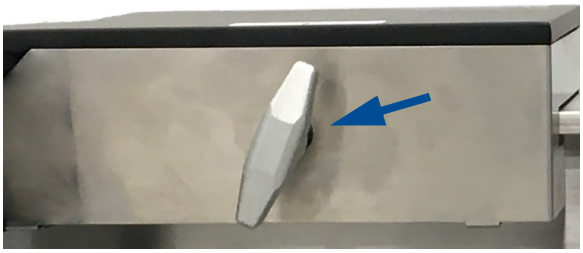
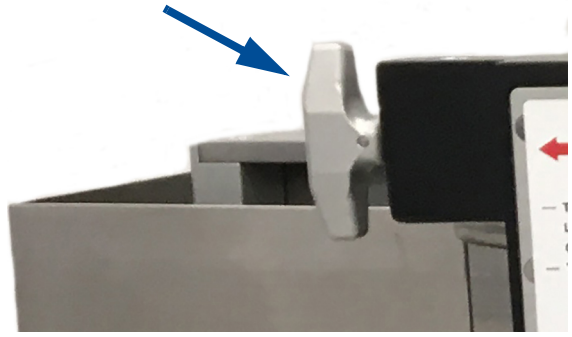


Figure 3: Traction Arc Assembly

The Traction Arc is the movable platform that supports the left and right Tractors. All traction accessories attach to these Tractors, which can be repositioned to any point along the Traction Arc to accommodate various surgical setups.

The following adjustments can be made using the Traction Arc Assembly:

Anatomical Lock 	Turn this lock counterclockwise to unlock the Anatomical Adjustment Roller, which allows lateral translation of the Traction Arc Assembly. This moves the center point of the Traction Arc in relation to the center point of the table top up to four (4) inches (10 cm) in either direction. Turn the lock clockwise to lock the Anatomical Adjustment Roller in place.
Arc Lock 	Turn this lock counterclockwise to unlock the Traction Arc, allowing the Arc to translate along its full range of motion (approximately 20° from center in both directions) to accomodate various surgical setups. Turn the lock clockwise to lock the Traction Arc in place.
Tractor Lock 	Turn this lock counterclockwise to unlock the Tractor, allowing it to move along the length of the Traction Arc. Once properly positioned for the surgical setup, turn the lock clockwise to lock the Tractor in place.

Traction Unit Height Adjustment Crank Handle and Release Lever 	Turn the Traction Unit Height Adjustment Crank Handle clockwise to raise the height of the Traction Unit Upright. To lower the height of the Traction Unit, lift the Release Lever and turn the Traction Unit Height Adjustment Crank Handle counterclockwise.
Drape Rod Hanger Lock 	Turn this lock clockwise to secure the Drape Rod Hanger Post in place. To remove the Drape Rod Hanger Post, turn the lock counterclockwise.

3.2.2 Traction Arc Attachments

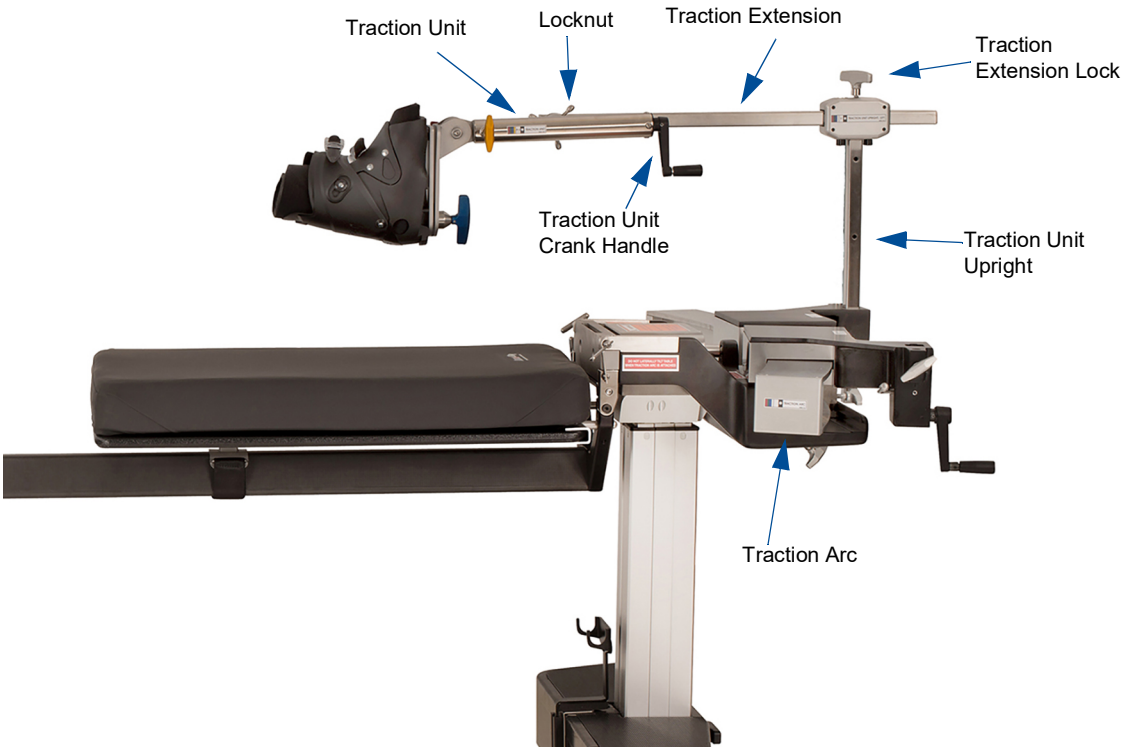


Figure 4: Traction Arc Attachments

The Traction Unit Uprights secure into the Left and Right Tractors on the Traction Arc. They support the Traction Extension. Secure the Traction Extension by turning the Traction Extension Lock on the Traction Unit Upright clockwise.

The Traction Extension comes in two sizes: short and long. The recommended size for each setup is provided in Section 7.

Gross traction adjustment can be made by adjusting the position of the Traction Extension:

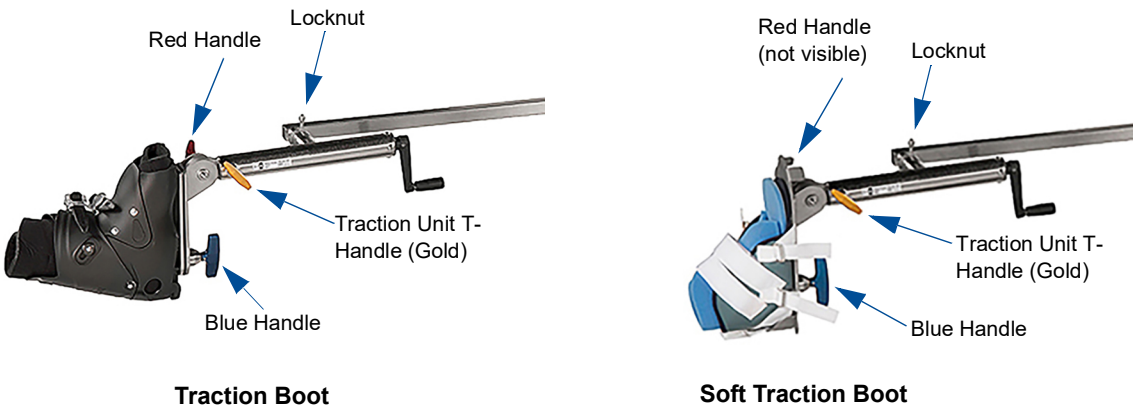
1. Rotate the Traction Extension Lock counterclockwise to loosen the Traction Extension.
2. Reposition the Traction Extension to provide the desired level of gross traction.
3. Rotate the Traction Extension Lock clockwise to lock the Traction Extension in place.

The Traction Unit secures into the Traction Extension and supports various components for either skin or skeletal traction.

To attach the Traction Unit and make fine traction adjustments:

1. Position the Traction Unit relative to the Traction Extension, as desired.
2. Secure the Traction Unit in place by rotating the locknut on the Traction Extension clockwise.
3. Fine traction adjustments can be made using the Traction Unit Crank Handle.
   a. Rotate the Crank Handle clockwise to add traction.
   b. Rotate the Crank Handle counterclockwise to remove traction.

3.2.3 Skin Traction Options



Traction Boot **Soft Traction Boot**

Figure 5: Skin Traction Options

Skin traction may be facilitated by securing either Traction Boots or Soft Traction Boots with a Traction Foot Plate to the Traction Unit.

To secure and adjust Traction Boots or Soft Traction Boots:

1. Rotate the Gold T-Handle on the Traction Unit clockwise to secure the boot.
2. To adjust the boot angle relative to the Traction Unit:
   a. Rotate the Red Handle counterclockwise to loosen.
   b. Manually adjust the boot angle relative to the Traction Unit.
   c. Rotate the Red Handle clockwise to secure the boot in its new position.
3. To adjust the internal/external rotation of the boot:
   a. Rotate the Blue Handle counterclockwise to loosen.
   b. Manually adjust the internal/external rotation of the boot.
   c. Rotate the Blue Handle clockwise to secure the boot in its new position.

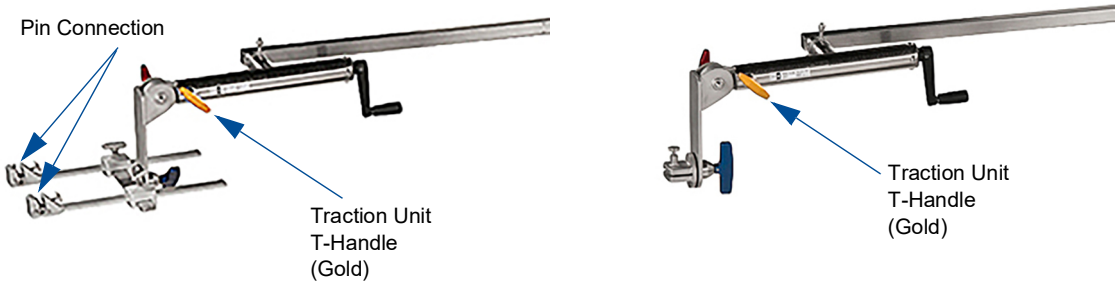
Traction Boots and Soft Traction Boots are provided in two sizes: small and large. The choice of Traction Boots or Soft Traction Boots is at the discretion of the surgeon.

NOTE: *Extra-large Traction Boots are also available as an optional accessory. See Section 8 for more information.*

Refer to the following size chart to select the appropriate Traction Boot. Adjust the amount of padding as needed for the size of the patient's foot.

Men's Shoe Size Comparision Chart																
	Small Traction Boot					Large Traction Boot						Extra-Large Traction Boot				
UK	4 1/2	5	5 1/2	6	6 1/2	7	7 1/2	8	8 1/2	9	9 1/2	10	10 1/2	11	11 1/2	12
US	5 1/2	6	6 1/2	7	7 1/2	8	8 1/2	9	9 1/2	10	10 1/2	11	11 1/2	12	13	14
Eur.	37 1/2	38	38 1/2	39	40	40 1/2	41	42	42 1/2	43	44	44 1/2	45	46	46 1/2	47
Jpn.	23.5	24	24.5	25	25.5	26	26.5	27	27.5	28	28.5	29	29.5	30	31	32

3.2.4 Skeletal Traction



90 Degree Pin and Wire Holder

Kirschner Bow Holder

Figure 6: Skeletal Traction

For procedures requiring skeletal traction, the Traction Unit can support either a Kirschner Bow Holder or a 90 Degree Pin and Wire Holder. Rotate the Gold T-Handle on the Traction Unit clockwise to secure the Kirschner Bow Holder or 90 Degree Pin and Wire Holder in place. Both options come standard with the table top. The choice of Kirschner Bow Holder or 90 Degree Pin and Wire Holder is at the discretion of the surgeon.

3.2.5 Traction Arc Cart

The Orthopedic Traction Arc Cart houses the Traction Arc and other traction accessories (Traction Unit Uprights, Traction Extensions, and Traction Units) when not in use. The Cart also supports the weight of the Traction Arc when attaching it to the Foot-End Column of the Advanced Control Base. See Section 6.3 for more information on attaching the Traction Arc to the Advanced Control Base.



Figure 7: Traction Arc Cart, Front and Back (Empty)



Figure 8: Traction Arc Cart, Front and Back (Loaded)

3.3 Perineal Posts and Support Boards

3.3.1 Pelvic Support Boards



G. M. Boards

Center Support Board

Figure 9: Pelvic Support Board Options

The Orthopedic Trauma Top comes with two pelvic support board options. The Center Support Board can be used when the patient is in either the supine or lateral decubitus position. The Left and Right G.M., or Gluteus Maximus, Boards are designed for use when the patient is in the supine position. The G.M. Boards offer an improved design, narrowing distally to optimize access and enhance radiolucency when the patient is in the supine position.

To install the Left and Right G.M. Boards:

1. Rotate the Slide Locking Knob counterclockwise on the Left and Right G.M. Boards to loosen.
2. Slide the G.M. Boards onto the rail at the Foot End of the Orthopedic Table Top. Slide the Right G.M. Board onto the right side of the table. Slide the Left G.M Board onto the left side of the table (Figure 10).



Figure 10: Sliding the G. M. Board on the Table Top Rail

3. Position the G.M. Boards so that the notch aligns with the Perineal Post attachment hole on the Table Spar (Figure 11).



Figure 11: G. M. Board Notch Properly Aligned

4. Rotate the Slide Locking Knob on the Left and Right G.M. Boards clockwise to secure them in place (Figure 12).



Figure 12: Locking the Slide Lock Knob on the G.M. Board

To install the Center Support Board:

1. Rotate the Slide Locking Knob on the Center Support Board counterclockwise to loosen.
2. Slide the Center Support Board onto the rail at the Foot-End of the Orthopedic Table Top (Figure 13).

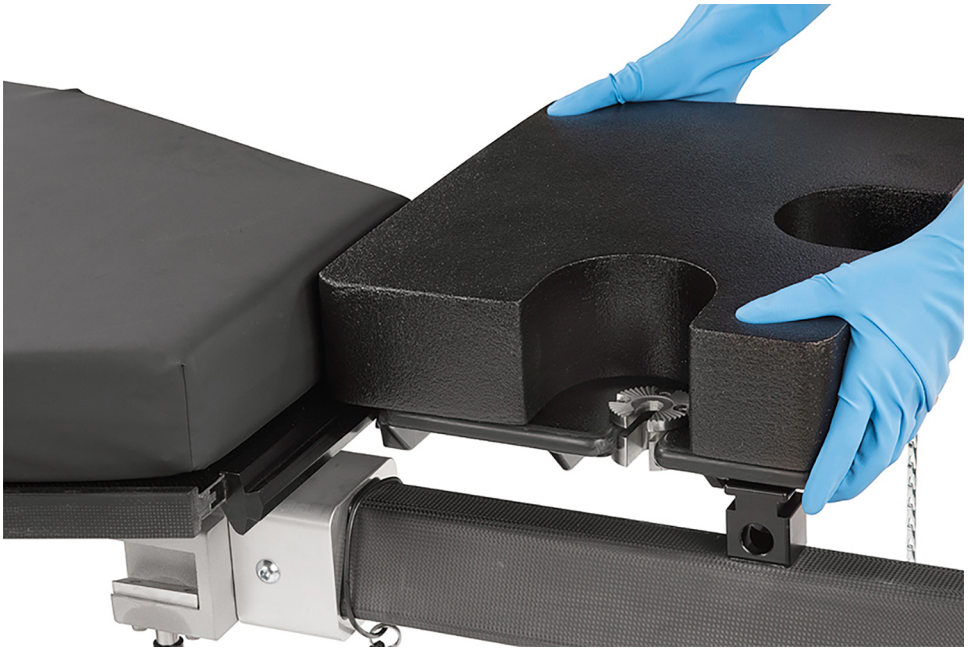


Figure 13: Sliding Center Support Board on the Table Top Rail

3. Position the Center Support Board so that the central notch at the Foot-End aligns with the Perineal Post attachment hole on the Table Spar.
4. Rotate the Slide Locking Knob on the Center Support Board clockwise to secure in place (Figure 14).



Figure 14: Locking the Slide Locking Knob on the Center Support Board

5. If not securing a Perineal Post to the central notch at the Foot-End of the Center Support Board, place the Lateral Board Plug into the Perineal Post attachment hole on the Table Spar (Figure 15). This secures the Center Support Board in place at the distal end.



Figure 15: Center Support Board with Plug Inserted

3.3.2 Perineal Posts

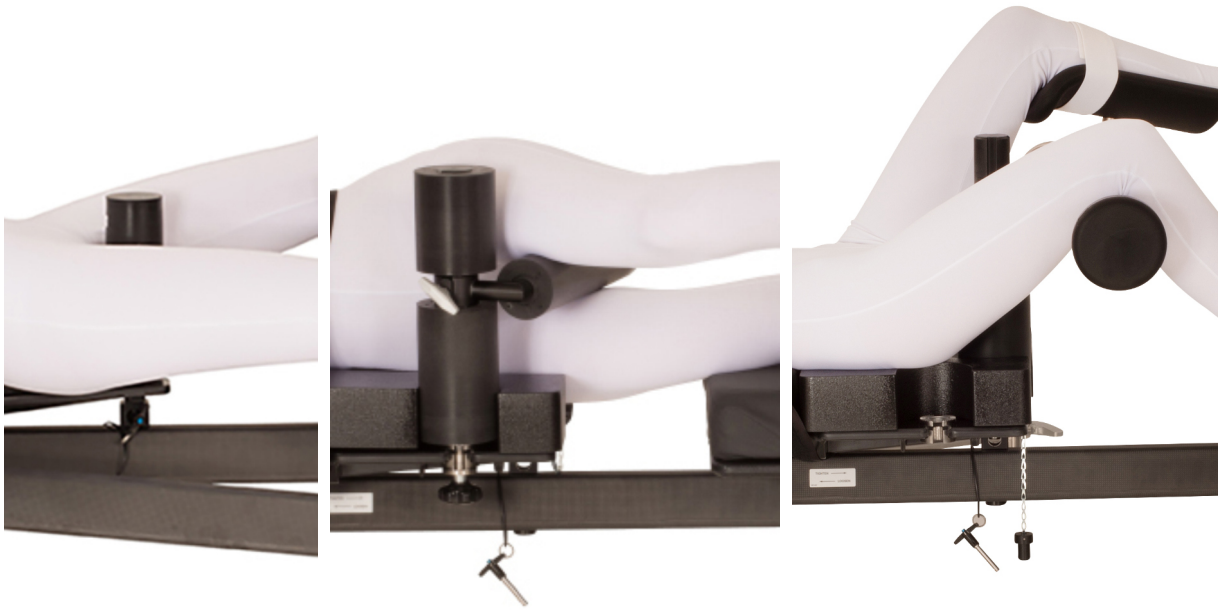


Figure 16: Perineal Post Options

The Orthopedic Trauma Top comes with several perineal post options designed for different patient positions. The Perineal Post is designed for use when the patient is in the supine position. It comes in adult and child sizes. The Lateral Perineal Post and Ilium Post are designed to be used together when the patient is in the lateral decubitus position. The Tibia Counter Traction Assembly is designed for use in tibial IM nailing procedures.

To install the Perineal Post:

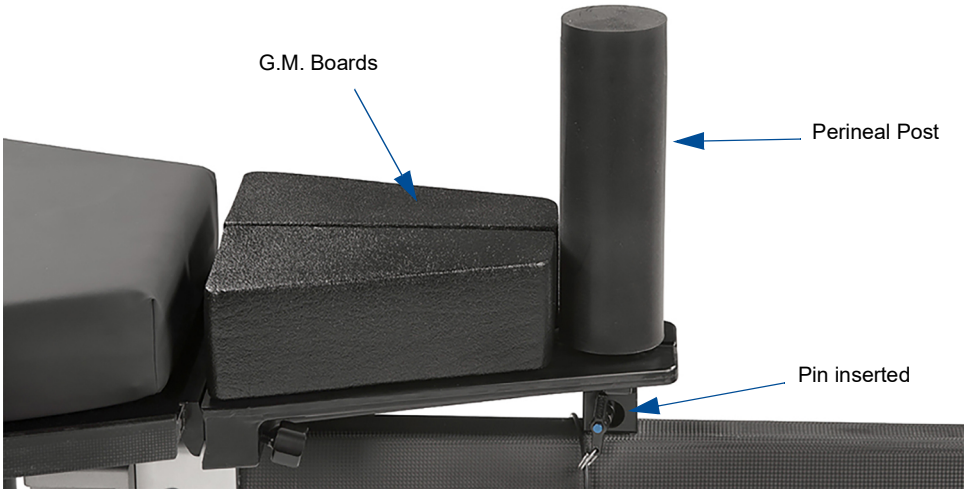


Figure 17: Perineal Post

1. Insert the Perineal Post into the slot at the Foot-End of the G.M. Boards.
2. If desired, lock into position by inserting the pin into the hole at the base of the Perineal Post. This prevents removal and rotation of the Perineal Post.

To install the Lateral Perineal Post:

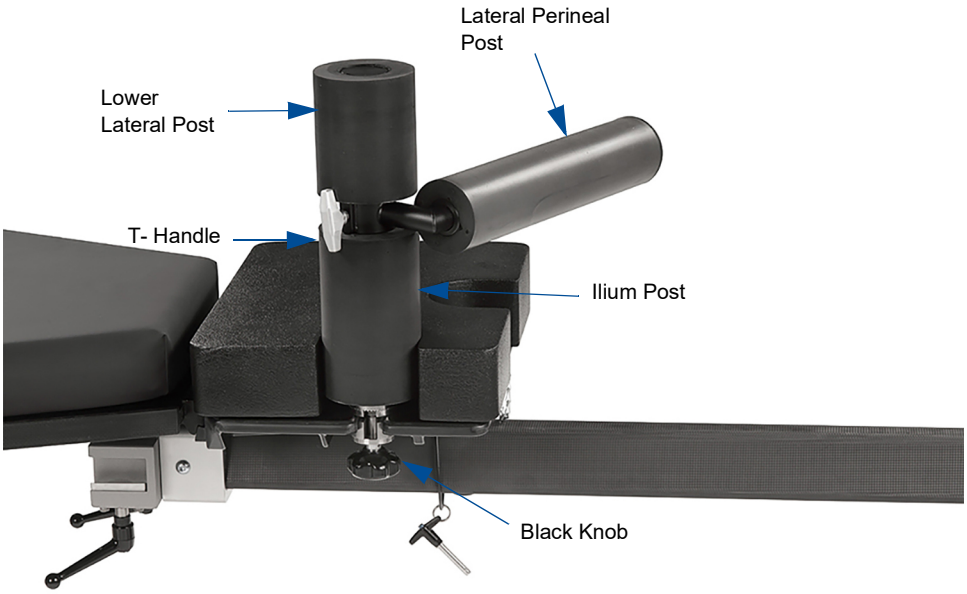


Figure 18: Lateral Perineal Post

1. Rotate the black knob on the Ilium Post counterclockwise to loosen.
2. Slide the Ilium Post in place on the side notch of the Center Support Board on the patient's anterior side.
3. To attach the Lateral Perineal Post to the Ilium Post:
   a. Remove the Lower Lateral Post Pad from the top of the Ilium Post.
   b. Slide the Lateral Perineal Post on the Ilium Post and position it. Typically, the position should be 30° from the transverse plane toward the Foot-End. Final positioning is at the discretion of the surgeon.
   c. Rotate the T-Handle on the Lateral Perineal Post clockwise to secure in place.
   d. Reattach the Lower Lateral Post Pad to the top of the Ilium Post.
4. Rotate the black knob on the Ilium Post clockwise to secure in place.

To install the Tibia Counter-Traction Assembly:

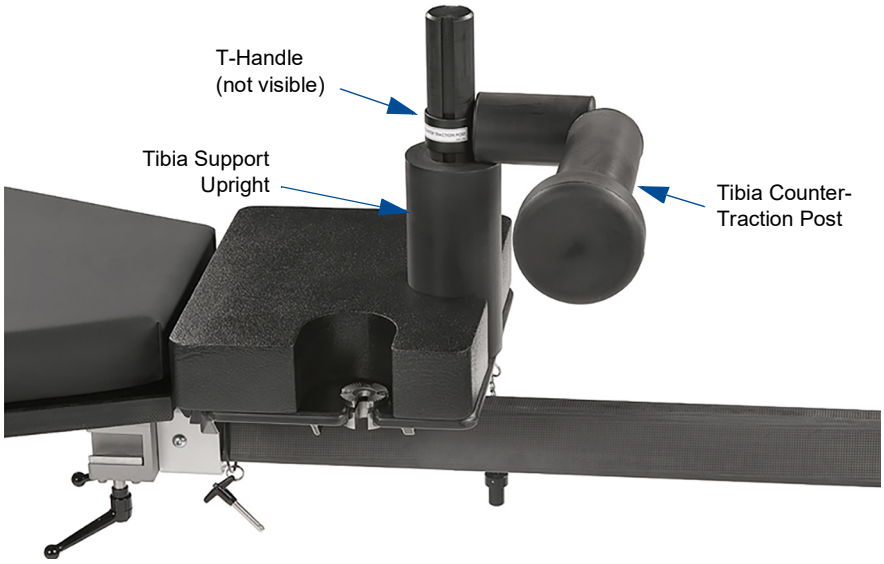


Figure 19: Tibia Counter-Traction Post

1. Remove the pad on the Tibia Support Upright.
2. Insert the Tibia Support Upright into the center notch on the Center Support Board.
3. Replace the pad on the Tibia Support Upright.
4. Attach the Tibia Counter-Traction Post to the Tibia Support Upright on the operative side.
5. Rotate the T-Handle clockwise to secure the Tibia Counter-Traction Post in position.

3.4 Leg Support Options

The Orthopedic Trauma Top provides several options for securing and supporting the patient's legs when in the supine and lateral decubitus positions.

For prolonged surgical procedures with patients in the lithotomy position, consider using the Radiolucent Auxiliary Leg Spar as an alternative.

3.4.1 Radiolucent Auxiliary Leg Spar

The Radiolucent Auxiliary Leg Spar may be secured to the Orthopedic Trauma Top to allow for attachment of traction accessories and other leg support components for the non-operative leg when the patient is in the supine position.

To attach the Radiolucent Auxiliary Leg Spar:

1. Slide the dovetail joint at the Head-End of the Radiolucent Auxiliary Leg Spar into the Spar Mounting Slot at the Head-End of the Othopedic Table Spar (Figure 20).

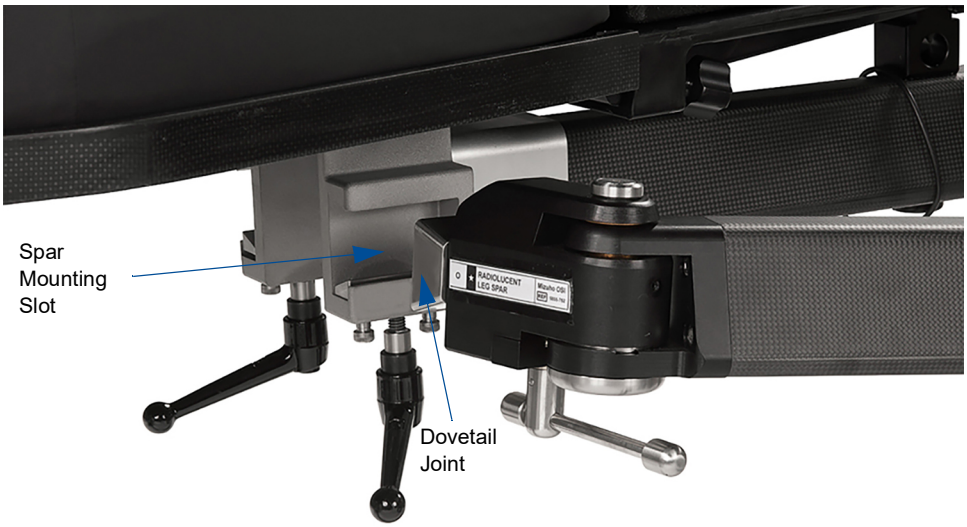


Figure 20: Installing Radiolucent Auxiliary Leg Spar into Spar Mounting Slot

2. Rotate the handle on the Orthopedic Table Spar to secure the Radiolucent Auxiliary Leg Spar to the table top (Figure 21).

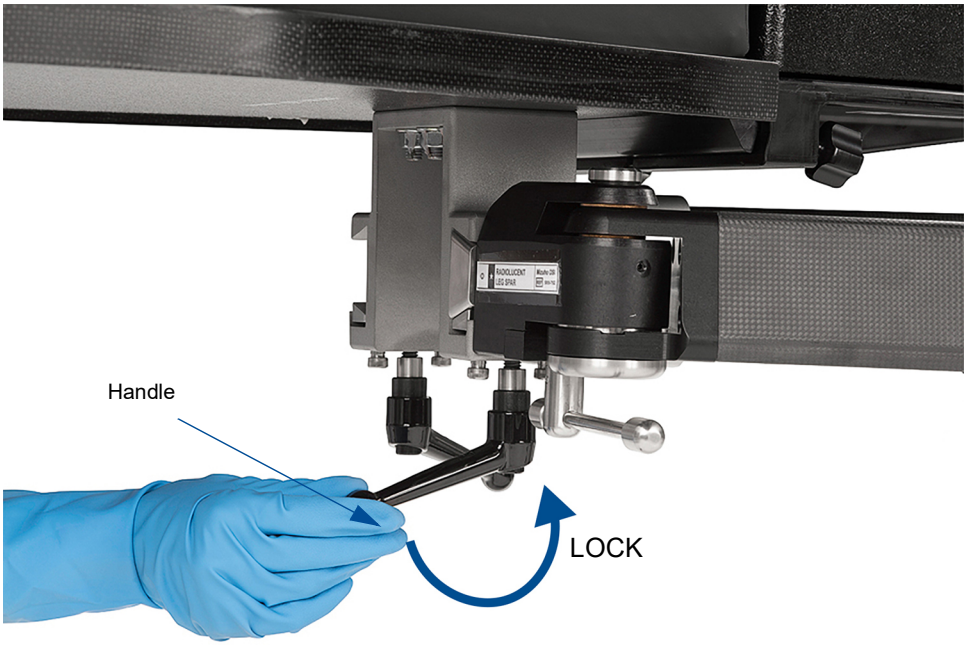


Figure 21: Securing Radiolucent Auxiliary Leg Spar to Table Top

3. Adjust the position of the Radiolucent Auxiliary Leg Spar to the desired angle.
4. Rotate the Spar Handle at the Head-End of the Radiolucent Auxiliary Leg Spar to secure it in place (Figure 22).



Figure 22: Securing the Radiolucent Auxiliary Leg Spar at the desired angle using Spar Handle

To attach and adjust traction accessories to the Radiolucent Auxiliary Leg Spar:

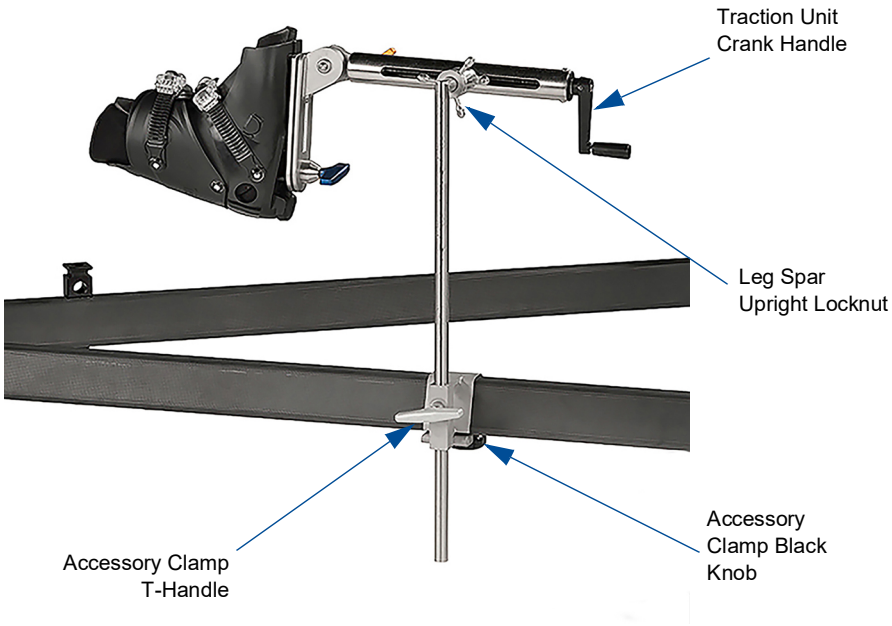


Figure 23: Radiolucent Auxiliary Leg Spar and Traction Accessories

1. Slide the Accessory Clamp on the Radiolucent Auxiliary Leg Spar with the black knob facing down and on the inside of the Leg Spar.
2. Rotate the black knob clockwise to secure the clamp in place.
3. Attach the Leg Spar Upright and secure by rotating the T-Handle on the clamp clockwise.
4. Attach the Traction Unit to the upper part of the Leg Spar Upright and secure by rotating the locknut clockwise.
5. Secure and adjust the Traction Boot or Soft Traction Boot as described in Section 3.2.3.
6. To make gross traction adjustments, reposition the Leg Spar Upright:
   a. Rotate the black knob on the Accessory Clamp counterclockwise to loosen.
   b. Reposition the Leg Spar Upright along the Radiolucent Auxiliary Leg Spar.
   c. Rotate the black knob on the Accessory Clamp clockwise to secure the Leg Spar Upright.
7. To make fine traction adjustments:
   a. Rotate the Crank Handle on the Traction Unit clockwise to add traction.
   b. Rotate the Crank Handle on the Traction Unit counterclockwise to remove traction.

To attach and adjust the Tibia Well Leg Support:

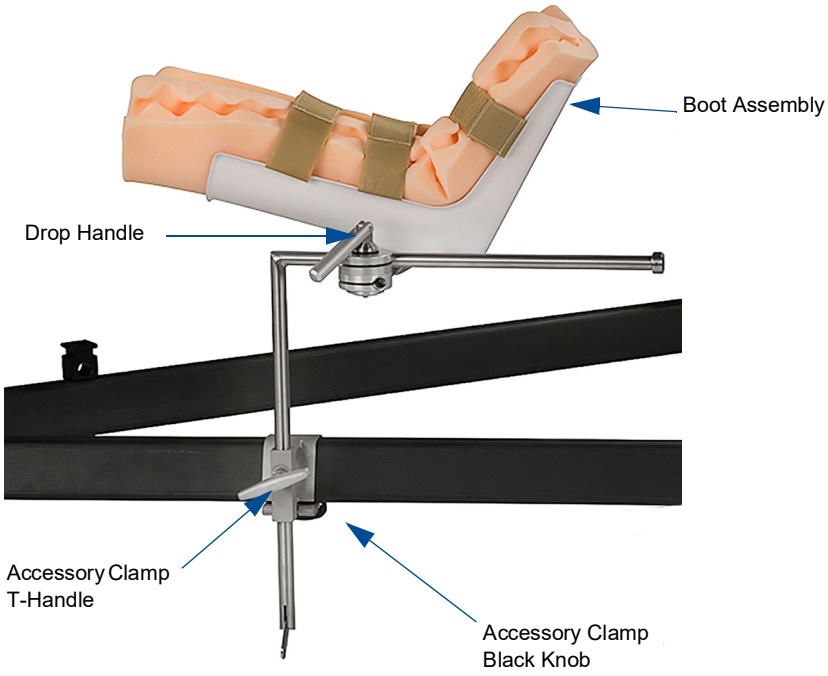


Figure 24: Radiolucent Auxiliary Leg Spar and Tibia Well Leg Support

1. Slide the Accessory Clamp on the Radiolucent Auxiliary Leg Spar with the black knob facing down and on the inside of the Leg Spar.
2. Rotate the black knob clockwise to secure the clamp in place.
3. Attach the Tibia Well Leg Support and secure by rotating the T-Handle on the clamp clockwise.
4. To adjust the angle of the Boot Assembly:
   a. Rotate the drop handle just underneath the Boot Assembly counterclockwise to loosen the ball joint.
   b. Reposition the Boot Assembly to the desired angle.
   c. Rotate the drop handle clockwise to secure the Boot Assembly in place.

3.4.2 Well Leg Support Assembly

The Well Leg Support Assembly is another option available for supporting the non-operative leg when the patient is in a supine position. It is composed of the Well Leg Support Swing Arm and the Well Leg Support.

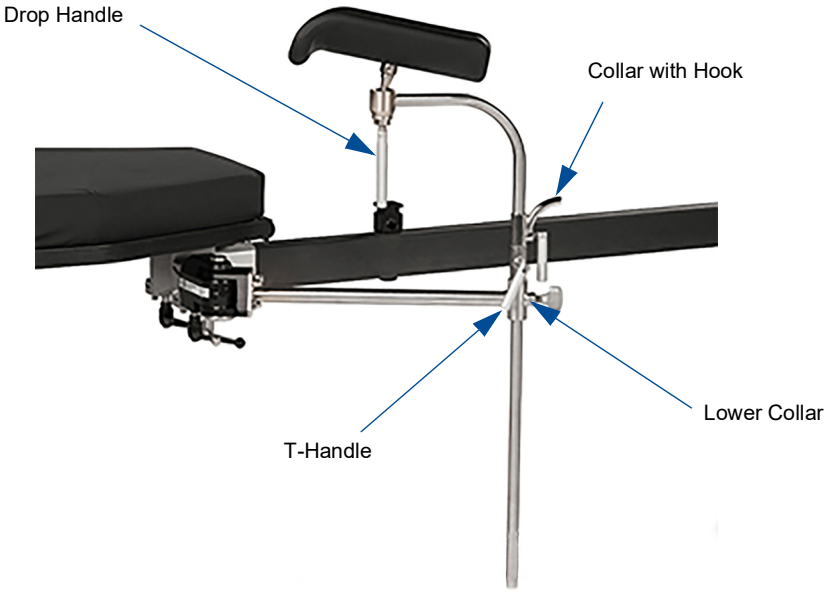


Figure 25: Well Leg Support Assembly

To attach and adjust the Well Leg Support Assembly:

1. Slide the dovetail joint of the Well Leg Support Swing Arm into the Spar Mounting Slot at the Head-End of the Orthopedic Table Spar (Figure 26).

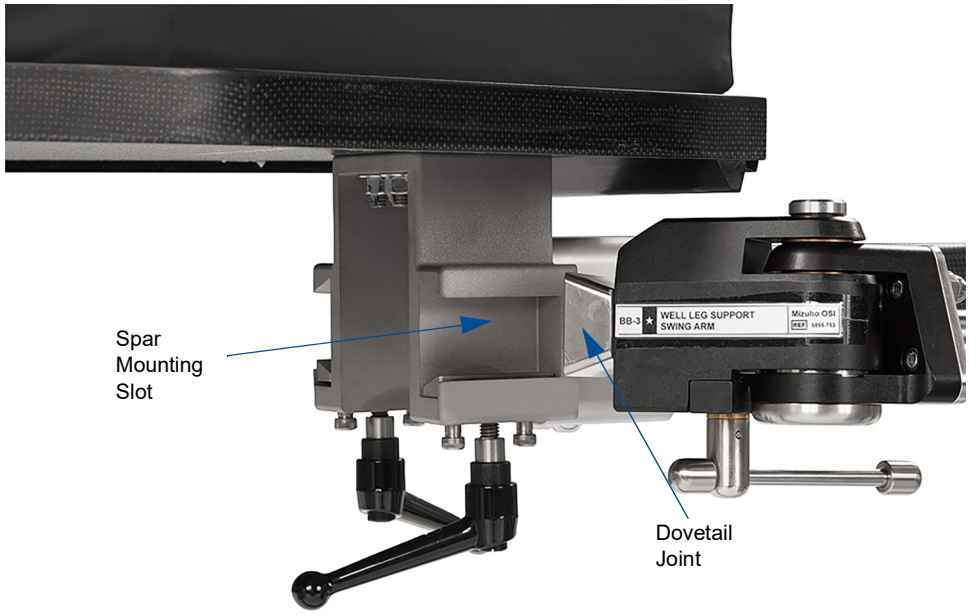


Figure 26: Installing Well Leg Support Swing Arm into Spar Mounting Slot

2. Rotate the handle on the Orthopedic Table Spar to secure the Well Leg Support Swing Arm to the table top (Figure 27).



Figure 27: Securing Well Leg Support Swing Arm to Table

3. Adjust the position of the Well Leg Support Swing Arm to the desired angle.

4. Rotate the Spar Handle at the Head-End of the Well Leg Support Swing Arm to secure it in place (Figure 28).



Figure 28: Locking Position of Well Leg Support Swing Arm

5. Attach the Well Leg Support to the Well Leg Support Swing Arm and secure in place by rotating the T-Handle at the Foot-End of the Swing Arm clockwise.

NOTE: *Use this T-Handle to make any height adjustments to the Well Leg Support.*

The Well Leg Support provides the following adjustment options:

- **Adjust the Well Leg Support Pad angle:** Rotate the drop handle under the Leg Pad counterclockwise to loosen the ball joint under the Leg Pad, adjust the angle of the Well Leg Support Pad, and then rotate the drop handle clockwise to lock in place.
- **Adjust the hook orientation:** Rotate the drop handle on the collar with the hook counterclockwise to loosen, adjust the height and orientation of the hook and collar, and then rotate the drop handle clockwise to lock in place. The hook provides a second anchor for wraps used to secure the patient's leg.
- **Adjust the lower collar position:** Rotate the drop handle on the lower collar counterclockwise to loosen, adjust the height of the collar, and then rotate the drop handle clockwise to lock in place. This acts as a secondary height positioner for the Well Leg Support.

3.4.3 Lateral Decubitus Leg Support Options

When the patient is in the lateral decubitus position, the operative leg may be supported by the Lower Leg Support Assembly and the non-operative leg may be supported by the Leg Board Assembly.

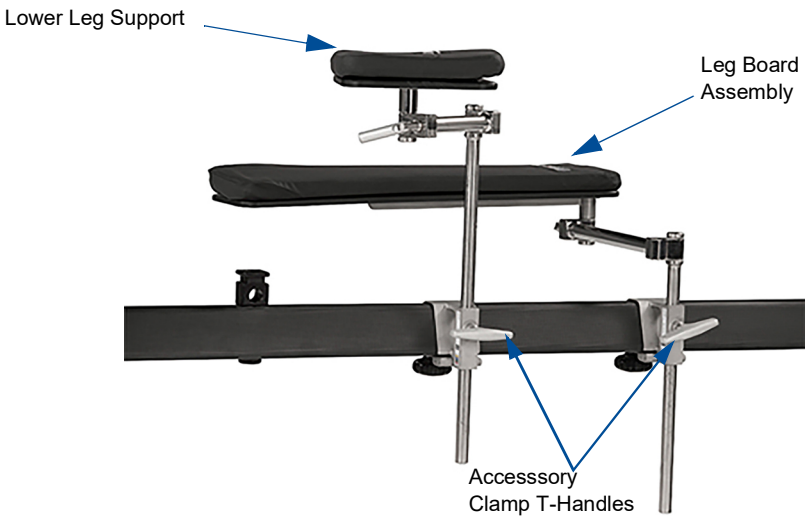


Figure 29: Lower Leg Support and Leg Board Assemblies

To attach the Lower Leg Support Assembly:

1. Slide the Accessory Clamp on the Orthopedic Table Spar with the black knob facing down and the receivers on the non-operative side of the table.
2. Rotate the black knob clockwise to secure the clamp in place.
3. Attach the Lower Leg Support Assembly to the clamp.
4. Rotate the T-Handle on the clamp clockwise to secure the Leg Support Assembly in place.

To attach the Leg Board Assembly:

1. Slide the Accessory Clamp on the Orthopedic Table Spar with the black knob facing down and the receivers on the non-operative side of the table.
2. Rotate the black knob clockwise to secure the clamp in place.
3. Attach the Leg Board Assembly to the clamp.
4. Rotate the T-Handle on the clamp clockwise to secure the Leg Board Assembly in place.

3.5 Patient Transfer Board

The Patient Transfer Board is designed to provide a large flat surface to aid in transferring a patient to and from the Orthopedic Trauma Top.

CAUTION: The Patient Transfer Board is not intended to work as a surgical platform. It should be removed prior to surgery to avoid interference with operation of leg support components and other equipment used during the surgery.

To install the Patient Transfer Board:

1. Position the Patient Transfer Board over the Orthopedic Table Spar towards the Foot-End of the table top. Make sure the Channel Assembly is facing the Foot-End of the table.
2. Slide the Transfer Board Pegs in the attachment holes on the Foot-End of the Orthopedic Table Top until the Drop Lever clears the opening (Figure 30).

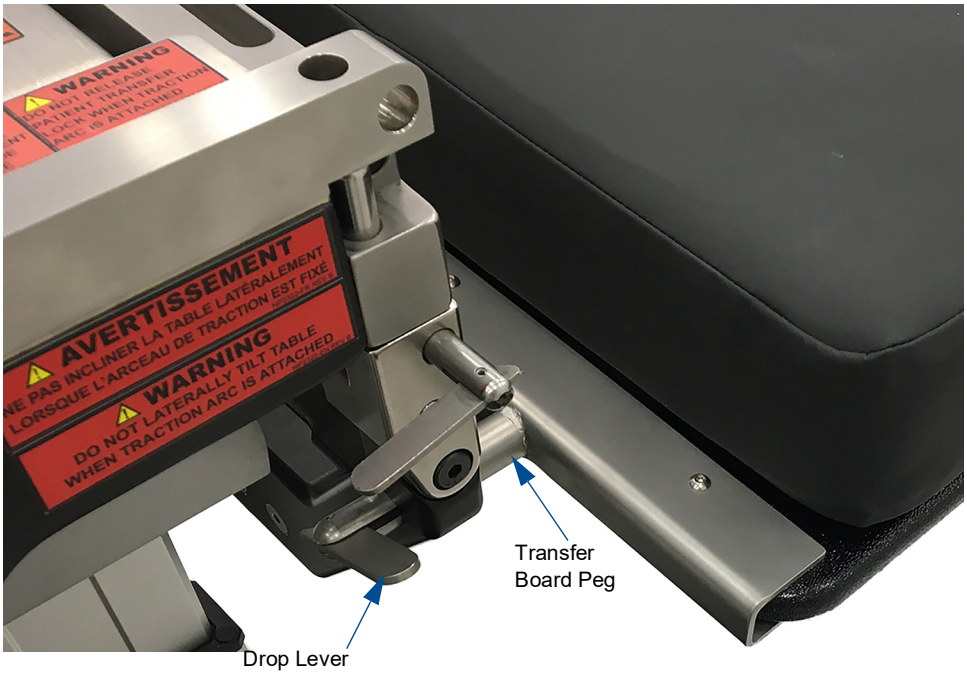


Figure 30: Transfer Board Peg Inserted through Foot-End of Table Top

3. Secure the Board to the Orthopedic Table Spar with the locking strap (Figure 31).



Figure 31: Securing the Locking Strap

3.6 Universal Side Rail Adapter

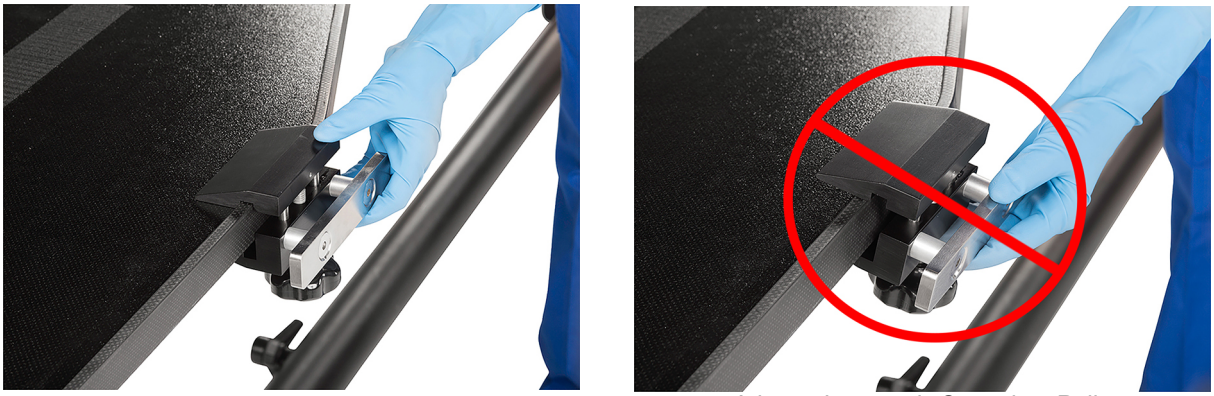
The Universal Side Rail Adapter (REF 6977-959) protects the carbon fiber rail of the table from damage and should always be used when mounting accessories. The Adapter provides 6 inches (15.2 cm) of side rail for mounting various accessories, such as Arm Boards, Clark Sockets, and Lateral Positioners.

NOTE: *Use of other manufacturers' side rail adapters on the carbon fiber rail may cause damage to the table top and will void your warranty.*

WARNING: Failure to use the Univseral Side Rail Adapter when mounting any accessory may result in damage to the table top, injury to the patient, or harm to the healthcare professional.

Use the following steps to install the Universal Side Rail Adapter to the table top:

1. Open the clamp by rotating the black knob counterclockwise,
2. Place the Adapter in the desired position, with the black knob facing down. Ensure that the notch on the Adapter is fully seated on the table rail (Figure 32).



Adapter Correctly Seated on Rail

Adapter Incorrectly Seated on Rail

Figure 32: Universal Side Rail Adaper Attached to the Orthopedic Trauma Top

3. Rotate the black knob clockwise to tighten the clamp.

NOTE: *A Long Univseral Side Rail Adapter is available as an option, providing 18 inches (45.7 cm) of side rail for mounting multiple accessories. See Section 8 for more information.*

3.7 Model Number and Serial Number

The manufacturer's label is located on the table top surface. It contains the REF product number and SN serial number.

4 Inspection and Function Check

4.1 Acceptance and Transfer

1. Upon receipt of your top, remove it from the shipping crate. Remove any protective wrapping or packaging. Visually inspect all surfaces for freight damage.

NOTE: *Any freight damage must be reported to the freight carrier immediately upon delivery. It is the responsibility of the recipient to make freight damage claims.*

2. Read the model number and serial number on the manufacturer's label located on the table top.

4.2 Inspection

Before use, inspect the table top for possible damage, excessive wear, or non-functioning parts. Carefully inspect all critical, accessible areas, joints, and all movable parts for possible damage or non-function. Damaged or defective products should not be used or processed. Contact Mizuho OSI Service for repair or replacement (see Section 10).

4.3 Pre-Procedure/Post-Procedure Checks

1. Thoroughly clean the table top as described in Section 9 of this manual. Pay special attention to the cleanliness of the controls as excessive soil can affect function.
2. Check to see that all fasteners are tight and without damage.

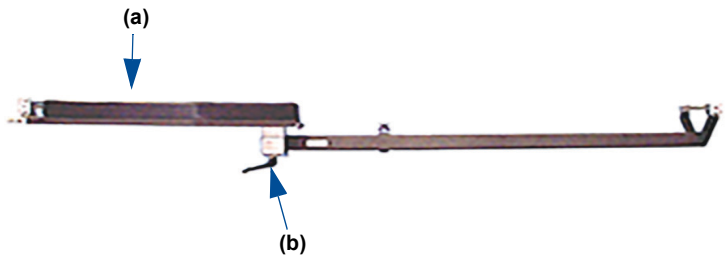
5 Orthopedic Trauma Top Components

To place an order for standard components , contact Mizuho OSI Sales Operations at 1-800-777-4674 within the USA or +1-510-429-1500 outside the USA. At the prompt, select Option 1.

NOTE: *If a part needs repair, contact Mizuho OSI Service (see Section 10).*

5.1 Orthopedic Trauma Top Standard Components

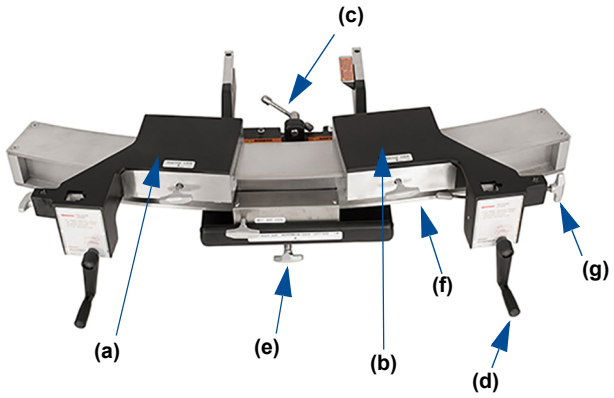
REF 5855-900 Orthopedic Table Top Assembly



The Orthopedic Table Top Assembly consists of the table top itself, complete with the 2 inch (5 cm) thick Tempur-Pedic® Medical Pad.

(a) REF 5855-7297 Table Pad
(b) REF 5855-915 Handle Assembly

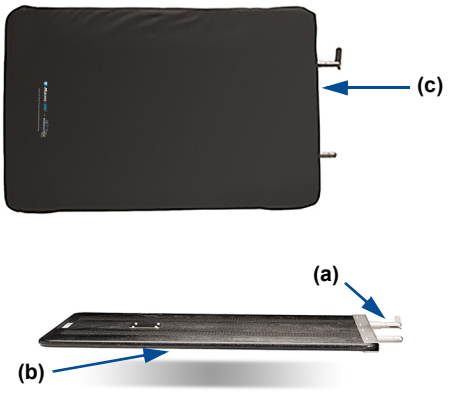
REF 5855-13 Traction Arc



The Traction Arc attaches to the Foot-End Crossbar of the Advanced Control Base, and contains the mounting and adjusting mechanisms for the traction accessories used in the various setups described in Section 7. For detailed instructions on mounting the Traction Arc to the Advanced Control Base, see Section 6.3.

(a) REF 5855-429 Tractor Assembly, Right
(b) REF 5855-431 Tractor Assembly, Left
(c) REF 5855-560 Traction Mount Handle Assembly
(d) REF 5855-703 Crank Handle
(e) REF 5855-570 Handle Assembly, Guide Lock
(f) REF 5855-501 T-Handle Assembly
(g) REF 5855-469 T-Handle Assembly

PTB REF 5855-911 Patient Transfer Board Assembly



The Patient Transfer Board Assembly attaches to the Foot-End of the table and provides additional support for the patient's legs during patient transfer. Once the patient is completely secured as described in the appropriate setup instructions, the Patient Transfer Board Assembly is removed.

The Patient Transfer Board comes with a 3-inch (7.6 cm) Tempur-Pedic®Medical Pad.

For detailed instruction on mounting the Patient Transfer Board to the table top, see Section 3.5.

(a) REF 5855-413 Channel Assembly
(b) REF 5855-909 Transfer Board Support Assembly (not visible)
(c) REF 5855-7377 Transfer Board Pad Assembly

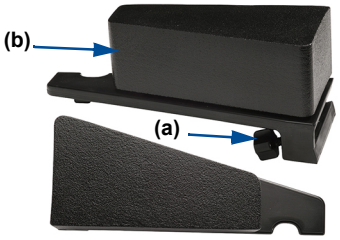
X-1 or X-2 Traction Extension



X-1 REF 5855-578 Traction Extension, Short
X-2 REF 5855-193 Traction Extension, Long

The Traction Extension attaches to the Traction Unit Upright secured into the Traction Arc. The table top comes with two (2) Short Traction Extensions (27 inches, or 68.6 cm, long) and one (1) Long Traction Extension (38 inches, or 96.5 cm, long). The Traction Extension supports the Traction Unit, and provides gross traction adjustment. Recommendations for use of Short or Long Traction Extension options are provided in setup instructions in Section 7.

A REF 5855-519 G.M.Board, Left, with Pad and Locking Knob

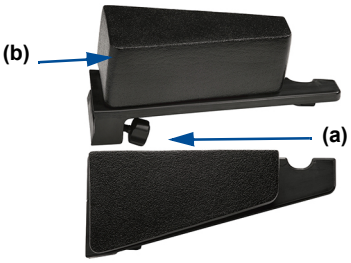


(a) REF 5855-281 Slide Locking Knob
(b) REF 5855-287 Pad, Left, G.M. Board

The left G.M., or Gluteus Maximus, Board attaches to the Head section of the table and, with the right G.M. Board, supports the patient's pelvis. The G.M. Boards are used in surgical procedures where the patient is in the supine position.

The pad is made of polyurethane foam that is vinyl dipped. The shape of the pad adjusts with the patient, but returns to its original shape once the patient is removed.

B REF 5855-518 G.M. Board, Right, with Pad and Locking Knob



(a) REF 5855-281 Slide Locking Knob
(b) REF 5855-286 Pad, Right, G.M. Board

The right G.M., or Gluteus Maximus, Board attaches to the Head section of the table and, with the left G.M. Board, supports the patient's pelvis. The G.M. Boards are used in surgical procedures where the patient is in the supine position.

The pad is made of polyurethane foam that is vinyl dipped. The shape of the pad adjusts with the patient, but returns to its original shape once the patient is removed.

F REF 5855-319 Center Support Board with Pad (shown from below)

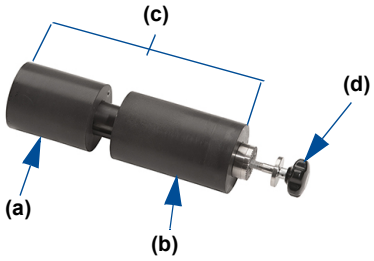


The Center Support Board attaches to the Head section of the table and supports the patient's pelvis. It is used in surgical procedures where the patient is in the supine or lateral decubitus positions.

The pad is made of polyurethane foam that is vinyl dipped. The shape of the pad adjusts with the patient, but returns to its original shape once the patient is removed.

(a) REF 5855-281 Slide Locking Knob
(b) REF 5855-309 Lateral Pad Assembly
(c) REF 5855-937 Center Support

J REF 5855-242 Ilium Post

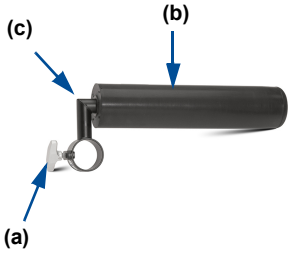


The Ilium Post Assembly attaches to the Center Support Board and supports the Lateral Perineal Post.

The pads are made of urethane foam. The counter-traction pad is seven (7) inches (17.8 cm) long and four (4) inches (10.2 cm) in diameter. The lower pad is five (5) inches (12.7 cm) long and four (4) inches (10.2 cm) in diameter.

(a) REF 5855-628 Pad, Lateral Post, Lower
(b) REF 5855-243 Pad, Counter-Traction
(c) REF 5855-242 Ilium Post
(d) REF 5855-175 Knob Assembly

K Lateral Perineal Post Assembly

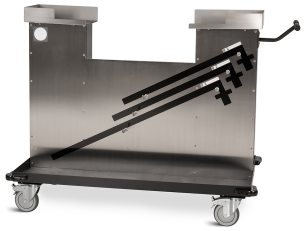


The Lateral Perineal Post Assembly attaches to the Ilium Post. It provides counter-traction when the patient is in the lateral decubitus position.

The urethane foam pad helps relieve pressure on the patient's leg. It is 14 inches (35.6 cm) long and three (3) inches (7.6 cm) in diameter.

(a) REF 5855-469 T-Handle Assembly
(b) REF 5855-243 Pad, Counter-Traction
(c) REF 5855-137 Lateral Perineal Post

REF 5863 Orthopedic Traction Arc Cart



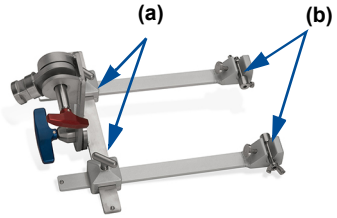
The Orthopedic Traction Arc Cart houses the Traction Arc and other traction accessories (Traction Unit Uprights, Traction Extensions, and Traction Units) when not in use. The Cart also supports the Traction Arc when attaching it to the Foot-End Column of the Table Base.

O REF 5855-752 Radiolucent Auxiliary Leg Spar



The Radiolucent Auxiliary Leg Spar may be attached to the Orthopedic Trauma Top to support traction accessories and other leg support components for the non-operative leg.

T REF 5855-120 90 Degree Pin and Wire Holder

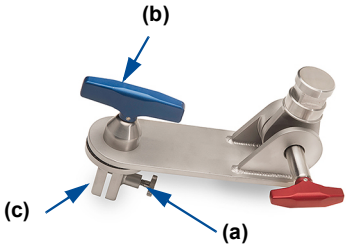


The 90 Degree Pin and Wire Holder attaches to the Traction Unit and may be used in procedures requiring skeletal traction.

The Pin Holder Shaft Assembly can be replaced.

(a) REF 5855-296 Lock Assembly
(b) REF 5855-522 Shaft Assembly

Z REF 5862 Kirschner Bow Holder



The Kirschner Bow Holder attaches to the Traction Unit and may be used in procedures requiring skeletal traction.

The Screw Assembly can be replaced.

(a) REF 5862-15 Screw Assembly
(b) REF 5855-441 Blue Handle
(c) REF 5862-10 Bow Adapter

P-2 Traction Boot

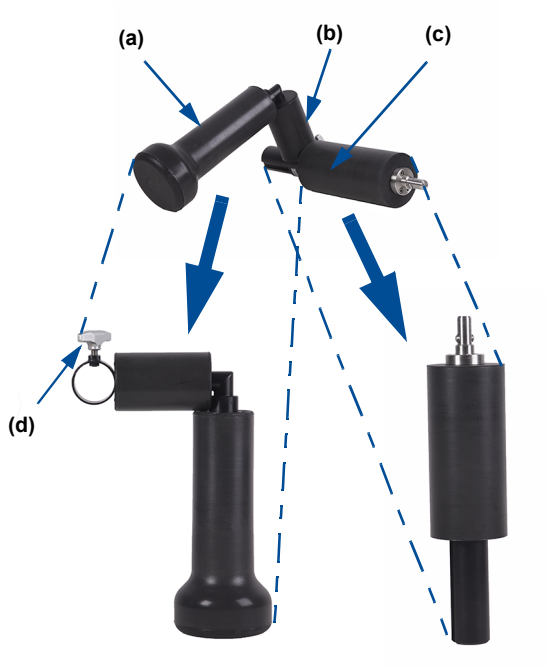


The Traction Boot is one option available to secure the patient's foot to the Traction Unit for procedures requiring skin traction. One (1) small pair and one (1) large pair of Traction Boots come standard with the Orthopedic Trauma Top. An optional Extra-Large size is also available (see Section 8).

The standard black boot liners can be replaced. In addition, disposable boot liners are available. (See Section 5.2 for ordering information.)

REF 5855-863 Traction Boot, Small Pair
REF 5855-864 Traction Boot, Large Pair

REF 5855-136 Tibia Counter-Traction Assembly



The Tibia Counter-Traction Post Assembly attaches to the Center Support Board and supports the patient's operative leg during tibial IM nailing procedures.

The urethane foam pads help relieve pressure on the patient's leg. The Upper Lateral Post Pad is nine (9) inches (22.9 cm) long and four (4) inches (10.2 cm) in diameter. The Tibia Pad is five (5) inches (12.7 cm) long and three (3) inches (7.6 cm) in diameter. The Tibial Extension Pad is 11.5 inches (29.2 cm) long and 3 to 5 inches (7.6 to 12.7 cm) in diameter.

M Tibia Counter-Traction Post **L Tibia Support Upright**

(a) REF 5855-211 Pad, Tibia Extension
(b) REF 5855-517 Pad, Tibia
(c) REF 5855-629 Pad, Lateral Post, Upper
(d) REF 5855-469 T-Handle (replacement part)

V or W Traction Unit Upright



The Traction Unit Uprights are secured into the Left and Right Tractors on the Traction Arc. They support the Short or Long Traction Extension. Two (2) Traction Unit Uprights come standard with the Orthopedic Trauma Top.

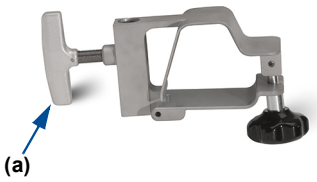
V REF 5855-672 Traction Unit Upright, Left
W REF 5855-673 Traction Unit Upright, Right

Y REF 5855-411 Tibia Traction Upright



The Tibia Traction Upright attaches to the Orthopedic Table Spar near the Foot-End and supports the Traction Unit. It is used during IM Tibia Nailing procedures.

AA REF 5855-61 Accessory Clamp

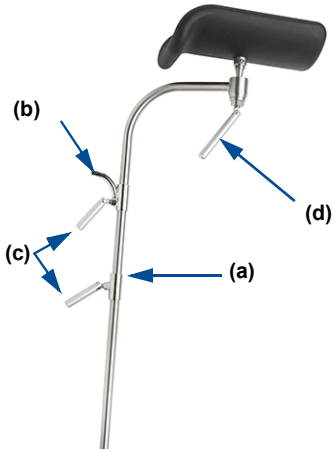


The Accessory Clamp attaches to the Radiolucent Auxiliary Leg Spar and to the Orthopedic Table Spar, allowing various components to be mounted.

Three (3) Accessory Clamps come standard with the Orthopedic Trauma Top.

(a) REF 5855-466 T-Handle

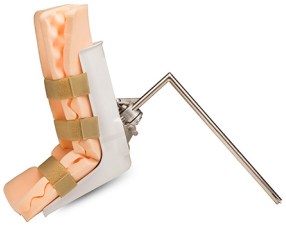
BB-1 REF 5855-838 Well Leg Support



The Well Leg Support attaches to the table through the use of the Well Leg Support Swing Arm. It can be used to support the non-operative leg when the patient is in the supine position.

(a) REF 5855-423 Collar Assembly
(b) REF 5855-424 Collar with Hook
(c) REF 914-416 Drop Handle Assembly
(d) REF 5300-52 Drop Handle Assembly

BB-2 REF 5855-930 Tibia Well Leg Support



The Tibia Well Leg Support attaches to the Radiolucent Auxiliary Leg Spar with an Accessory Clamp. It can be used to support the non-operative leg when the patient is in the supine position. Convoluted Foam Boots are disposable components. See Section 5.2 for ordering information.

BB-3 REF 5855-753 Well Leg Support Swing Arm



The Well Leg Support Swing Arm attaches to the table, and allows mounting of the Well Leg Support, which can be used to support the patient's non-operative leg during procedures where the patient is in the supine position.

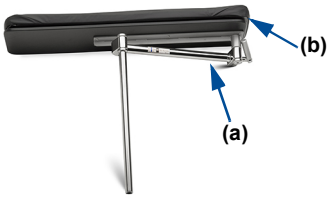
(a) REF 5855-466 T-Handle
(b) REF 5855-759 Spar Handle Assembly

CC REF **5855-644 Leg Spar Upright**



The Leg Spar Upright attaches to the Radiolucent Auxiliary Leg Spar with an Accessory Clamp. It supports the Traction Unit and Traction Boot that secure the patient's foot on the non-operative leg.

DD REF **5855-163 Leg Board Assembly**



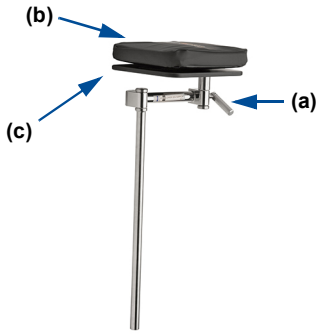
(a) REF **5855-798 Draw Rod Assembly, Long**
(b) REF **5855-7367 Leg Board Pad Assembly**

The Leg Board Assembly attaches to the table with an Accessory Clamp. It can be used to support the patient's non-operative leg when the patient is in the lateral decubitus position.

When in place, the Leg Board can be translated, raised, lowered, and laterally adjusted depending on the positioning needs of the patient.

The Leg Board Pad is a 1-inch Tempur-Pedic ® Medical Pad.

EE REF **5855-76 Lower Leg Support Assembly**



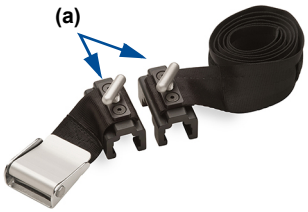
(a) REF **5855-802 Draw Rod Assembly**
(b) REF **5855-7357 Well Leg Pad Assembly**
(c) REF **5855-77 Leg Support Plate**

The Lower Leg Support Assembly attaches to the table with an Accessory Clamp. It can be used to support the patient's operative leg when the patient is in the lateral decubitus position.

Once attached, the Leg Board can be translated, raised, lowered, and laterally adjusted, depending on the positioning needs of the patient.

The Well Leg Pad is a 1-inch Tempur-Pedic® Medical Pad.

FF REF **5855-550 Patient Safety Strap**

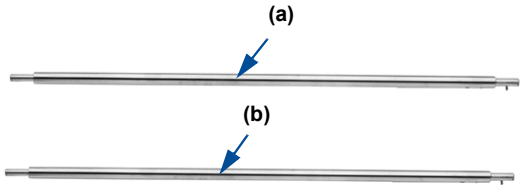


(a) REF **5278-3 T-Handle (2)**

The Patient Safety Strap is used to secure the patient in place when positioned on the table. The straps attach directly to the carbon fiber rails on the Orthopedic Trauma Top.

Two (2) sets of Patient Safety Straps come standard with the Orthopedic Trauma Top.

GG Patient Isolation Drape Hanger Posts



The Patient Isolation Drape Hanger Posts support the Patient Isolation Drape Rod Assembly.

(a) REF 5855-617 Foot-End (Short)
(b) REF 5855-615 Head-End (Long)

HH REF 5855-612 Patient Isolation Drape Rod Assembly(2)

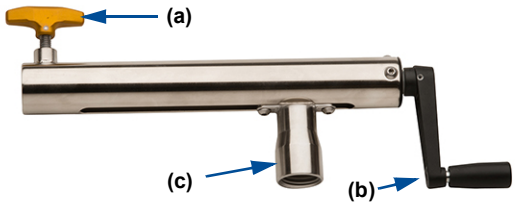


The Patient Isolation Drape Rod Assembly supports the Patient Isolation Drapes.

Two (2) Rod Assemblies come standard with the Orthopedic Trauma Top.

A set of three (3) Patient Isolation Drapes come standard with the Orthopedic Trauma Top. See Section 5.2 for reorder information.

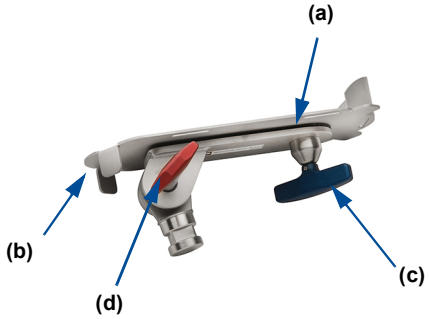
P-1 REF 5855-345 Traction Unit



The Traction Unit attaches to the Traction Extension and provides fine traction adjustment. The Traction Boot or Traction Foot Plate can be attached to the Traction Unit, depending on surgeon preference. Two (2) Traction Units come standard with the Orthopedic Trauma Top.

(a) REF 5855-623 T-Handle
(b) REF 5855-470 Crank Handle
(c) REF 5855-718 Nut, Traction Screw

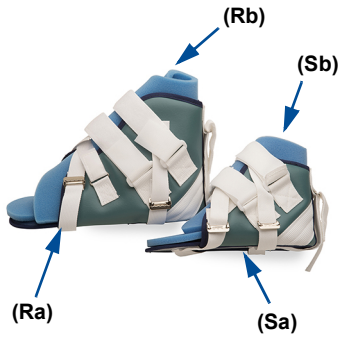
P-2 REF 5855-440 Traction Foot Plate



The Traction Foot Plate, in conjunction with the Soft Traction Boot, is one option available to secure the patient's foot to the Traction Unit for procedures requiring traction. Two (2) Traction Foot Plates come standard with the Orthopedic Trauma Top.

(a) REF 5855-437 Rubber Friction Disk
(b) REF 5855-477 Pivot Plate Assembly
(c) REF 5855-441 Blue Handle
(d) REF 5855-483 Red Handle

R or S Soft Traction Boot

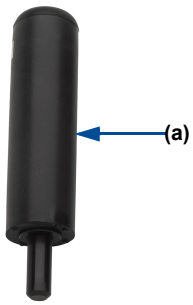


The Soft Traction Boot, in conjunction with the Traction Foot Plate, is one option available to secure the patient's foot to the Traction Unit for procedures requiring skin traction. Two (2) small and two (2) large Soft Traction Boots come standard with the Orthopedic Trauma Top.

Two (2) small and two (2) large disposable Soft Traction Boot Liners come standard with the Orthopedic Trauma Top. See Section 5.2 for reorder information.

(Sa) REF 5855-15 Soft Traction Boot, Small
(Sb) REF 5855-18 Soft Traction Boot Liners, Small (x24)
(Ra) REF 5855-14 Soft Traction Boot, Large
(Rb) REF 5855-17 Soft Traction Boot Liners, Large (x24)

I REF 5855-271 Perineal Post, Child, with Pad

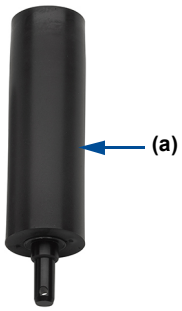


The Perineal Post, available in two sizes, provides counter-traction, while the urethane foam pad helps relieve pressure on the perineal area. The use of Child or Adult Perineal Post is at the discretion of the surgeon.

The Child Perineal Post is 7.5 inches (19 cm) long and has a 2-inch (5 cm) diameter with pad.

(a) REF 5855-268 Pad, Child, Perineal Post

H REF 5855-925 Perineal Post, Adult, with Pad

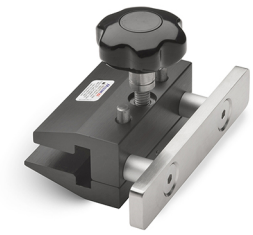


The Perineal Post, available in two sizes, provides counter-traction, while the urethane foam pad helps relieve pressure on the perineal area. The use of Child or Adult Perineal Post is at the discretion of the surgeon.

The Adult Perineal Post is 9 inches (22.8 cm) long and has a 2.75-inch (7 cm) diameter with pad.

a) REF 5855-938 Pad, Perineal Post

XX REF 6977-959 Universal Side Rail Adapter



The Universal Side Rail Adapter attaches to the carbon fiber rails of the Orthopedic Trauma Top. It provides 6 inches (15.2 cm) of side rail for mounting various accessories.

Two (2) Adapters come standard with the Orthopedic Trauma Top.

REF 5855-3000 Orthopedic Trauma Top Cover



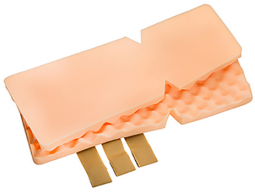
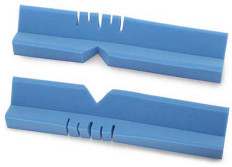
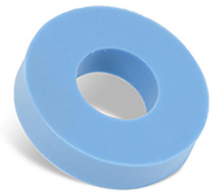
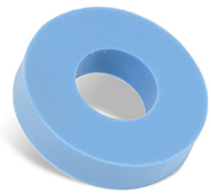
The Orthopedic Trauma Top Cover serves as a dust cover when it is in storage.

5.2 Disposable Components

To place an order for disposable components, contact Mizuho OSI Sales Operations at 1-800-777-4674 within the USA or +1-510-429-1500 outside the USA. At the prompt, select Option 1.

WARNING: Disposable components are single use only. Discard after use. Re-use of any disposable component may result in cross contamination.

Refer to the following table when ordering any disposable components for the Orthopedic Trauma Top:

REF **5855-18 Soft Traction Boot Liners, Small** (24 per case) 	REF **5855-17 Soft Traction Boot Liners, Large** (24 per case) 	REF **5937DZ Disposable Boot Liners** (12 per case) -- good for all sizes of Traction Boots 
REF **5052-3 Alp Straps and Pair of Foam Boots** -- for Tibia Well Leg Support 	REF **6855-13 Perineal Post Cover, Blue Foam** (12 per case) 	REF **5823-10 Foam Arm Cradles** (6 pairs per case) 
REF **5932 Nervpro™ System, Ulnar Protective Pads** (6 per case) 	REF **1901-12 Convoluted Foam Pads** (12 pairs per case) 	REF **370 Convoluted Foam Padding** (6" x 24" x 2") 
REF **1902-20 Supine/Lateral Head Rest** (20 per case) 	REF **1921 9" Headrest Doughnut** (24 per case) 	REF **1922 7" Headrest Doughnut** (24 per case) 

REF **5858 Patient Isolation Drape** (12 per case) **NOTE:** *This product is not currently CE marked.*		

6 Installing the Orthopedic Trauma Top on the Advanced Control Base

NOTE: *This device is intended for use by trained personnel only. Prior to installing a table top, ensure personnel have been trained. To schedule an in-service, please contact your Mizuho OSI sales representative, local distributor, or call* ***1-800-777-4674*** *within the USA or* ***+1-510-429-1500*** *outside the USA.*

NOTE: *Before using the Orthopedic Trauma Top, the user must have read the NW0646 Advanced Control Base Owner's Manual and have a thorough understanding of the Base's functionality.*

6.1 Preparation of the Advanced Control Base

To prepare the Advanced Control Base for installation of the table top, complete the following steps:

1. Roll the Base to where it will be used, and orient the Head-End Column toward the anesthesiologist work station.
2. If the Base has been in its retracted configuration, unlock the Retracting Locking Knob and pull the Head-End and Foot-End Columns in opposite directions until the unit is fully expanded. Lock the Retracting Locking Knob.
3. Lock the four (4) Casters of the Base.
4. Plug the Power Cord of the Advanced Control Base into a properly grounded receptacle. Refer to the manufacturer's label at the Head-End of the Base for input voltage requirements. If the AC power cable is not connected to an outlet with a protective earth ground, then the external ground stud should be connected to a protective earth ground.
5. Connect the Hand Pendant to the port on the Head-End.
6. Toggle the Power Switch to the ON position.
7. Confirm the Rotation Safety Lock switch is illuminated (Figure 33).
8. Confirm the 180 Degree Rotation Lock Indicator light is illuminated (Figure 33).
9. Confirm the Tilt Drive Status Indicator light is illuminated (Figure 33).



Figure 33: Head-End Assembly with Indicator lights illuminated

6.2 Installing the Orthopedic Trauma Top

Installing the Orthopedic Trauma Top requires two people, one to hold the table top at the Head-End, and one to hold the table top at the Foot-End.

NOTE: *Only Mizuho OSI Bases have been tested and approved for use with the Orthopedic Trauma Top. Other manufacturers' products have not been tested for proper performance when used with the top, and therefore are not endorsed for use by Mizuho OSI. Use of other manufacturers' products with the Orthopedic Trauma Top may void the warranty.*

WARNING: Use of components not manufactured by Mizuho OSI may result in harm to the patient, the table top, the device, or the healthcare professional.

CAUTION: To prevent injuries, two people should install the table top.

To install the table top:

1. Remove any H-Frames that may be attached to the crossbars if the Base was previously used with a different table top. Store the H-Frames on the H-Frame storage brackets.
2. To mount on the Base, invert the table top.
3. Carefully align the table top end with the Base's Head-End crossbar and the leg spar end with the Base's Foot-End crossbar (Figure 34).



Figure 34: Attaching table top to the crossbar

4. Remove twoT-Pins from a Quiver.
5. Pass a T-Pin completely through the Head-End and Foot-End crossbars and the table top mounting holes such that the Drop Lock is visible and pivots freely on the opposite side (Figure 36).

NOTE: *When a T-Pin is installed properly with the Drop Lock visible and pivoting freely, the T-Pin cannot be accidentally removed when pulled.*

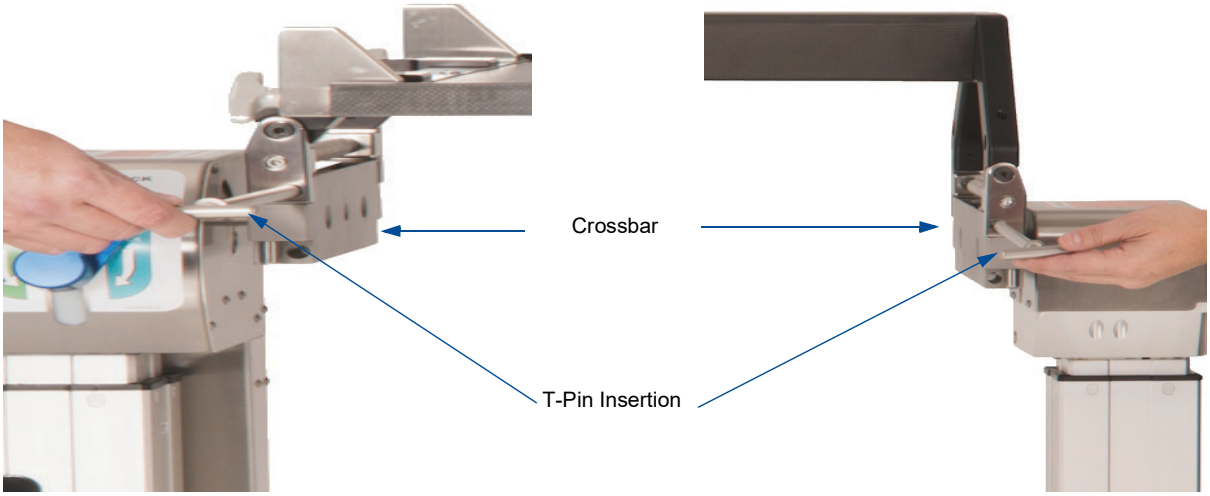


Figure 35: Inserting a T-Pin to secure table top (head/foot)

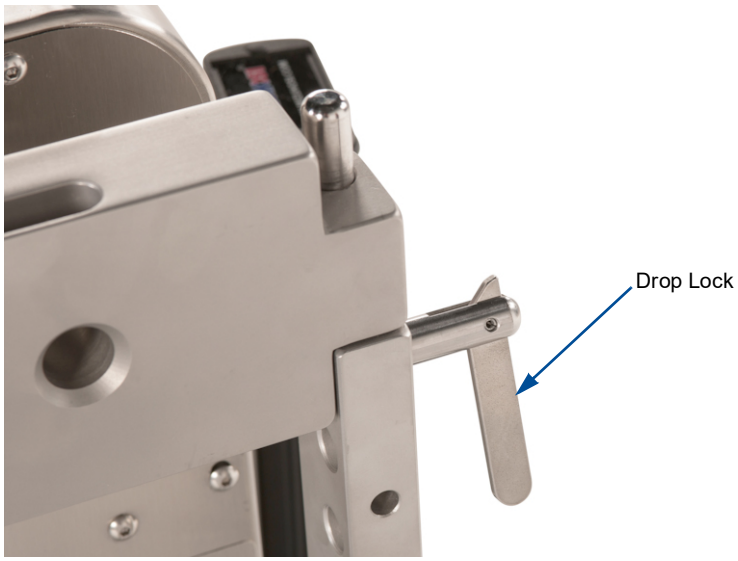


Figure 36: T-Pin Drop Lock visible after installation

WARNING: Failure to install the T-Pin properly with the Drop Lock visible and pivoting freely may result in harm to the patient, healthcare professional, or the device.

WARNING: T-Pins extended through the crossbars should never be removed with a patient on the table top. Removing any T-Pins may result in harm to the patient, healthcare workers, or the device.

6. Unlock the 180° Rotation Lock and the Rotation Safety Lock
7. Rotate the table top 180 degrees (Figure 37).
8. Relock the 180° Rotation Lock and the Rotation Safety Lock. Ensure that the indicator lights are on.

NOTE: *Refer to NW0646 Advanced Control Base Owner's Manual for additional information on how to rotate the table top to facilitate installation of the table top discussed below.*

CAUTION: Rotation of the table top is intended for purposes of table top installation only. DO NOT attempt to rotate the Orthopedic Trauma Top with a patient on the table.

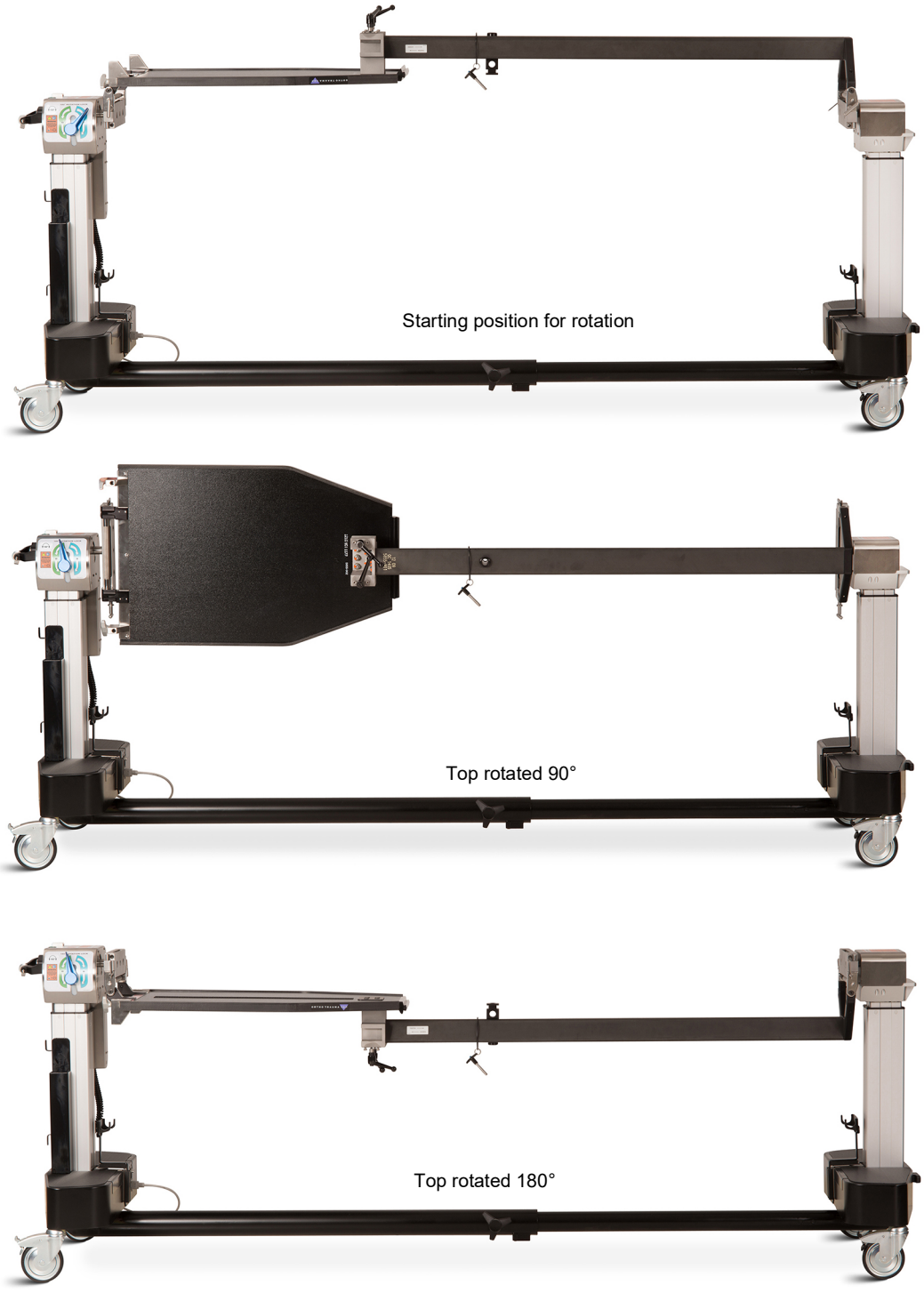


Figure 37: Orthopedic Trauma Top, Stages of Installation

The table top is now properly mounted on the Advanced Control Base (Figure 38).

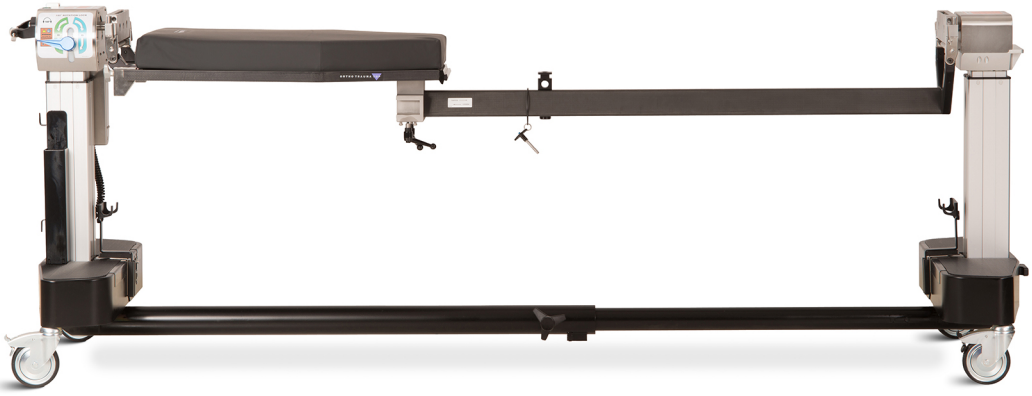


Figure 38: Orthopedic Trauma Top Properly Installed on the Advanced Control Base

6.3 Attaching the Traction Arc

When traction is required for a surgical procedure, it is necessary to attach the Traction Arc to the Foot-End column of the Advanced Control Base.

Do not attach the Traction Arc before installing the Orthopedic Trauma Top on the Advanced Control Base. Since the Traction Arc is heavy, it is designed to be attached to the Advanced Control Base directly from its stowed position on the Traction Arc Cart.

WARNING: Do not attempt to attach the Traction Arc to the Advanced Control Base without using the Traction Arc Cart. Failure to use the cart for support during attachment may cause harm to the healthcare professional or the device.

Use the following steps to attach the Traction Arc to the Advanced Control Base:

1. With the Traction Arc in its stowed position on the cart, lower the table to its lowest height and roll the cart up to the Foot-End of the Base. The cart extensions should straddle the Foot-End base.

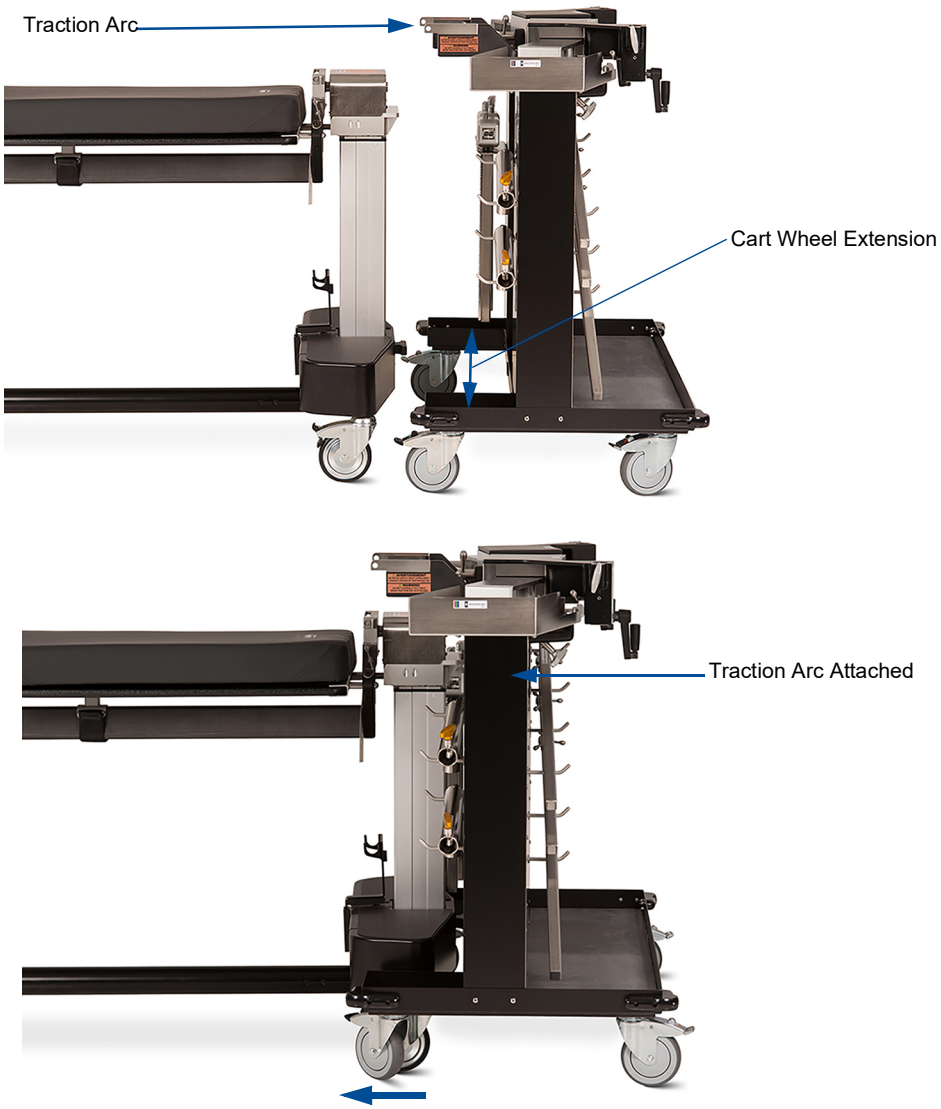


Figure 39: 5863 Orthopedic Traction Arc Cart

2. Position the cart so the attachment holes on the arc are directly above the attachment pins on the Foot-End crossbar (Figure 40).

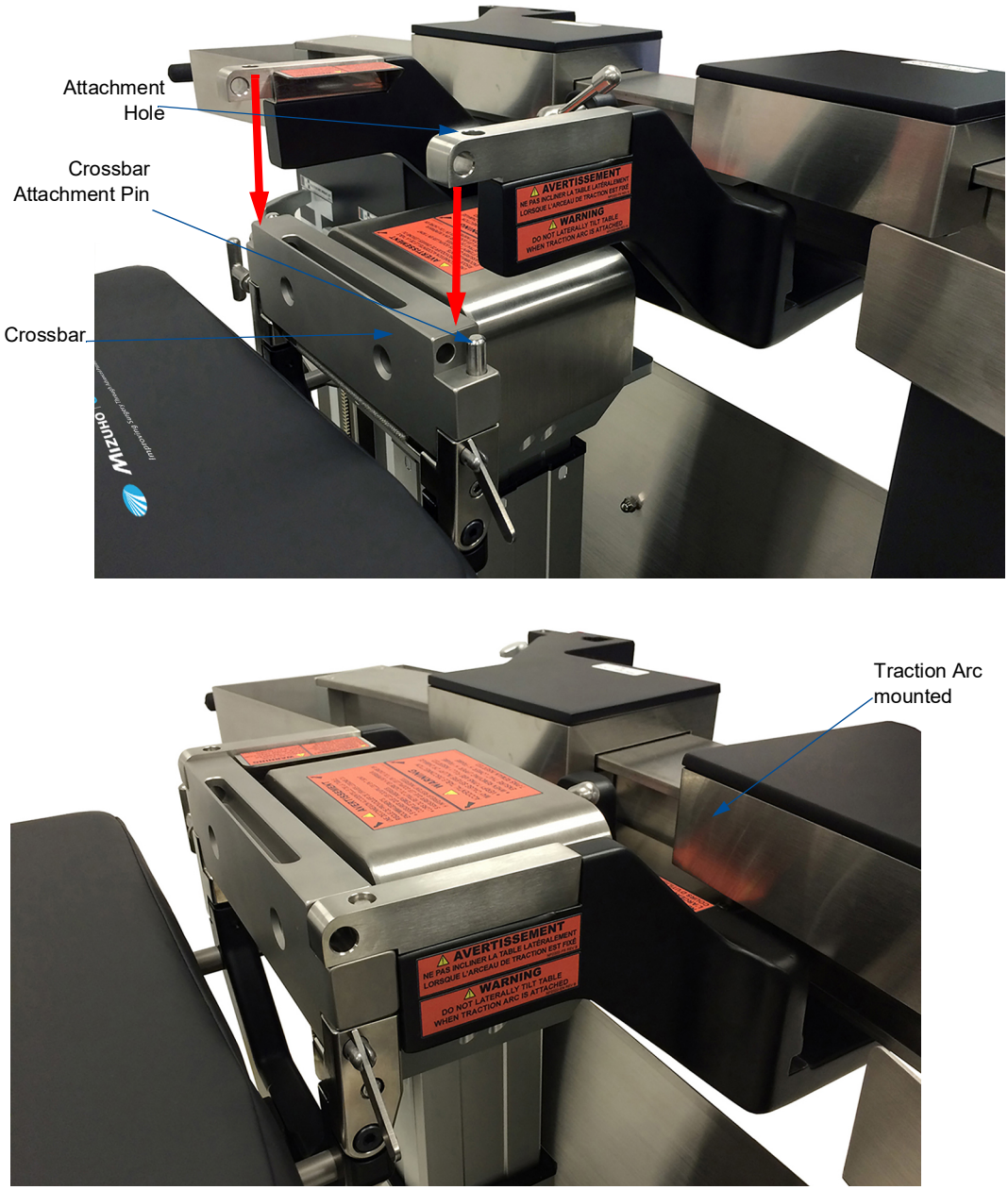


Figure 40: Traction Arc Positioning

3. Slowly raise the table and guide the two crossbar pins into the attachment holes in the arc. When the attachment pins are seated into the attachment holes, secure the arc with a T-pin (Figure 41).

WARNING: Failure to properly insert T-Pin can cause damage to the table and possibly harm patient or healthcare professional.

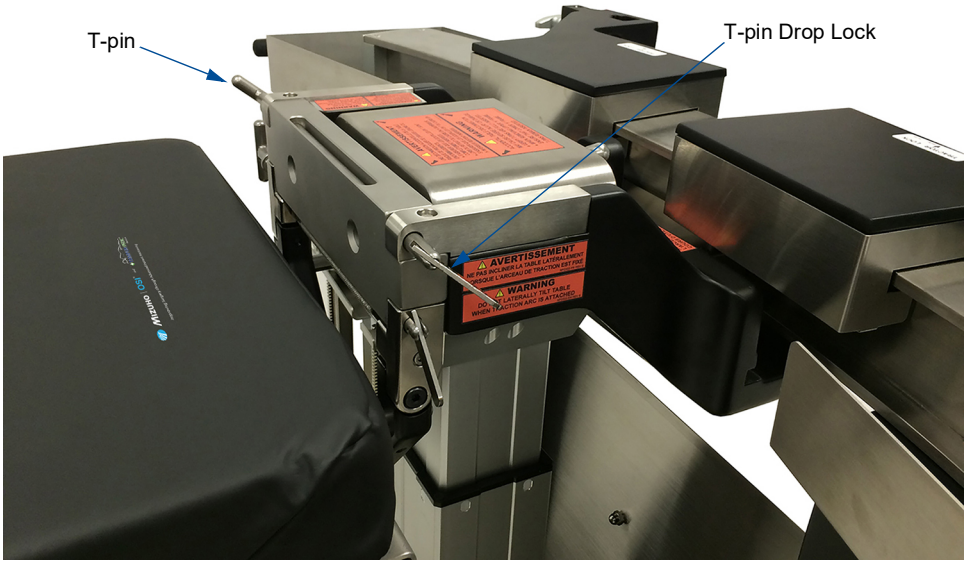


Figure 41: Traction Arc Attachment

4. Using the T-handle of the "Centering Pin", tighten the bullet-nosed centering pin into the receiving hole in the Foot-End crossbar until securely held and allow the T-handle to drop below the level of the Foot-End cover (Figure 42).
5. Raise the table until the arc is raised above the cart.
6. Remove cart and position nearby for availability of additional components.

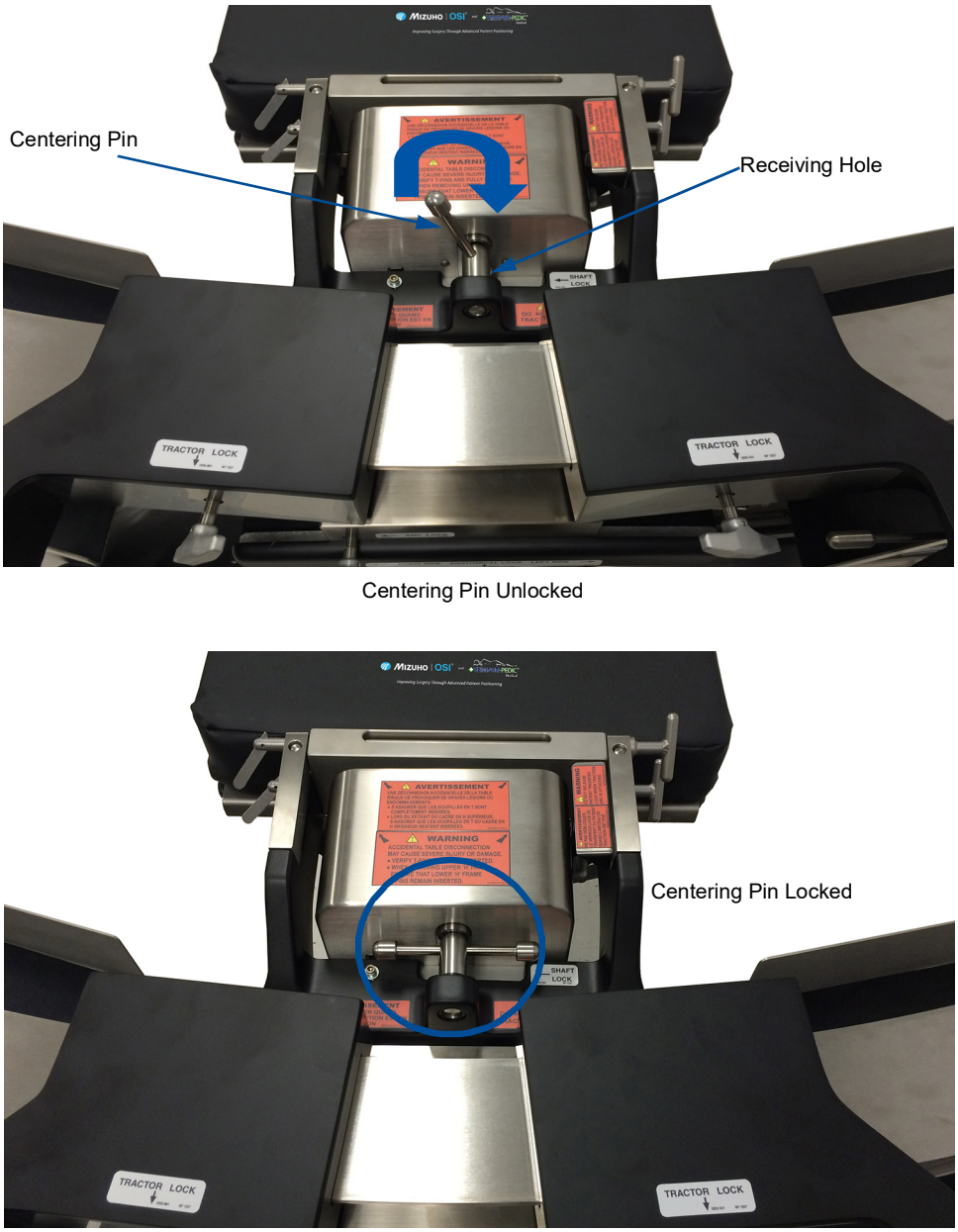


Figure 42: Traction Arc Securely in Place

6.4 Removing the Traction Arc

To remove the Traction Arc from the Advanced Control Base:

1. Ensure all floor locks are engaged.

2. Ensure that the Traction Arc is aligned to the center of the table. If necessary, unlock the Arc Lock and adjust the Traction Arc position. Once positioned, ensure that the Traction Arc is locked.
3. Roll up the Traction Arc Cart up to the Foot-End of the Table Base. The cart extensions should straddle the Foot-End base (Figure 43).



Figure 43: Traction Arc Cart Rolled to Foot-End of Table Base

4. Slowly lower the table using the Hand Pendant until the arc is resting in its storage position on the cart (Figure 44).



Figure 44: Traction Arc Resting on Cart

5. Using the T-Handle of the "Centering Pin", loosen the bullet-nosed centering pin from the receiving hole in the Foot-End crossbar (Figure 45).

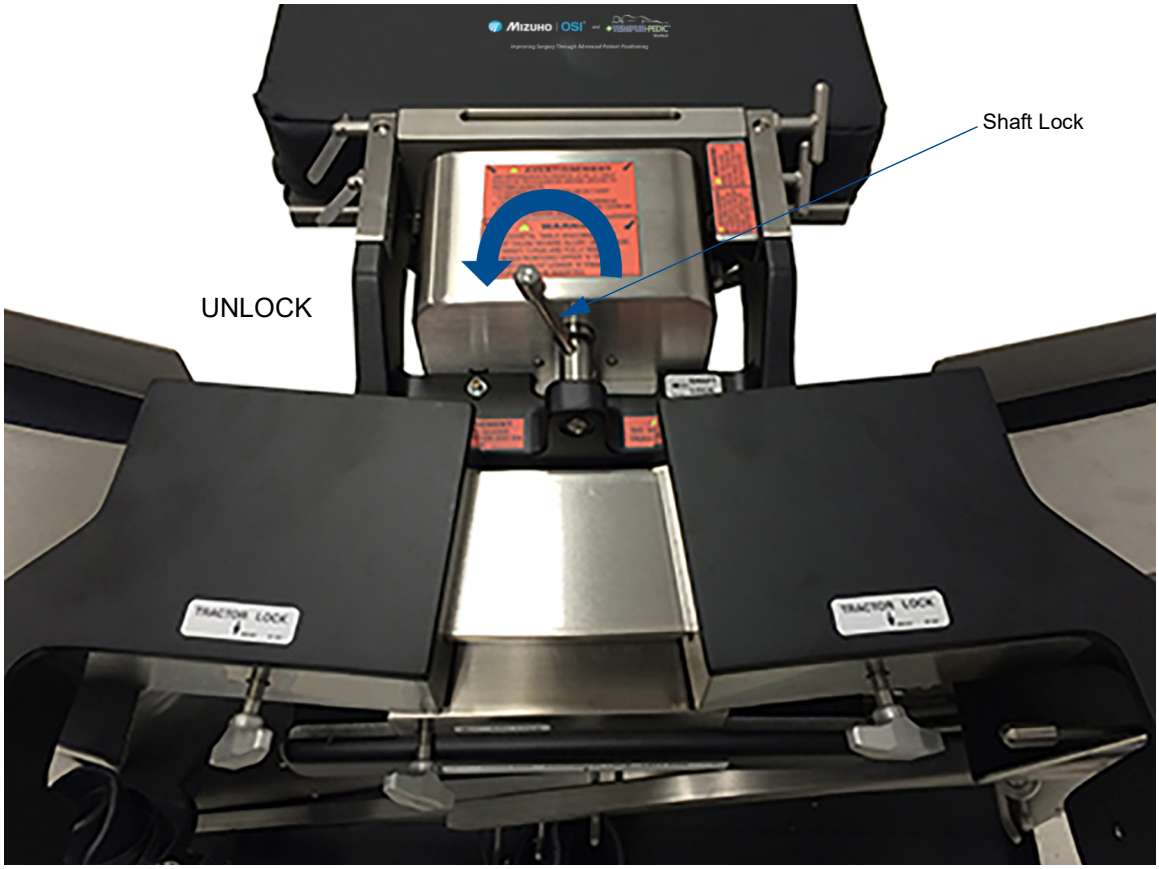


Figure 45: Centering Pin Loosening from Receiving Hole of Foot-End Crossbar

6. Remove the T-pin from the attachment holes in the arc.
7. Place T-Pin back in the Quiver.
8. Roll the Traction Arc Cart away from the Foot-End Base.

6.5 Removing and Storing the Orthopedic Trauma Top on the Base

Storing the Orthopedic Trauma Top on the retracted Advanced Control Base is possible through the use of an optional accessory, REF 5890-81 Table Top Storage Bracket.

To remove and store the Orthopedic Trauma Top on the Base:

1. Unlock the 180° Rotation Lock and the Rotation Safety Lock.
2. Rotate the Table Top 180 degrees.
3. Relock the 180° Rotation Lock and the Rotation Safety Lock. Ensure that the indicator lights are on.
4. With the assistance of two people, remove the Orthopedic Trauma Top by removing the T-Pins supporting the table top to the Head-End and Foot-End Crossbars.
5. Place T-Pins in a Quiver.

6. Unlock all Casters.
7. Retract the Base.
8. Relock all Casters.
9. Attach the Table Top Storage Bracket by placing it over the top of the Foot-End Crossbar of the Advanced Control Base and lowering it such that it rests on both the top and bottom surface of the crossbar. Tighten the gold handle to secure the Bracket to the Crossbar (Figure 46).

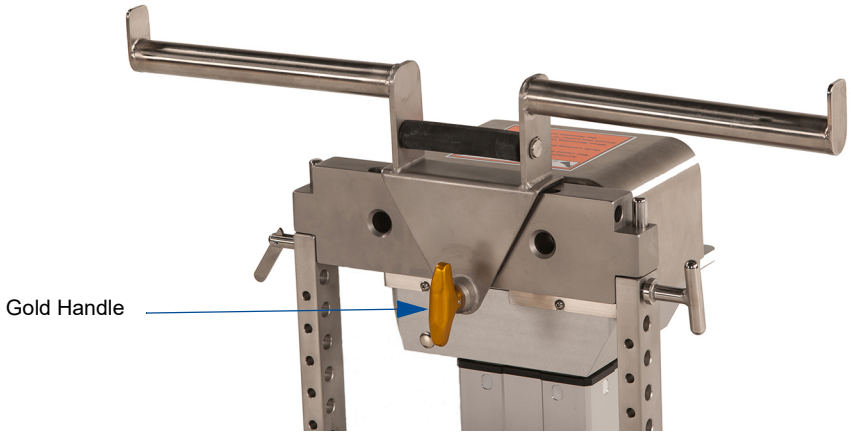


Figure 46: Table Top Storage Bracket Mounted on Foot-End Crossbar

10. Using the Hand Pendant, depress the Trendelenburg button to raise the Foot-End Column to its highest position.
11. Place the Foot-End of the table top in the Head-End H-Frame Storage Bracket.
12. Lean the Head-End of the table top such that it rests on the Table Top Storage bracket installed on the Foot-End Crossbar (Figure 47).



Figure 47: Table Top Stored on Advanced Control Base with Use of Table Top Storage Bracket

13. Toggle the Power Switch to OFF.
14. Unplug the Base from the power outlet and store the Cord on the Cord Wrap.
15. The Base and table top are now ready for storage.
16. Unlock all Casters and with the assistance of a second person, move the base to storage.
17. When in storage, place dust cover over the table top and Base. Ensure the Power Cord is connected to power receptacle located on the Head-End. Plug the Power Cord into a properly grounded AC power source as indicated on the manufacturer's label located on the outside base of the Head-End.
18. Toggle the Power Switch to ON.

NOTE: *When the Advanced Control Base is not in use, it is recommended that the Base be plugged in and turned ON to maintain battery charge.*

7 Setup of the Orthopedic Trauma Top

NOTE: *This device is intended for use by trained personnel. Prior to setup and use of the Orthopedic Trauma Top, ensure personnel have been trained. To schedule an in-service, please contact your Mizuho OSI Sales Representative, local distributor, or call* ***1-800-777-4674*** *within the USA or* ***+1-510-429-1500*** *outside the USA.*

NOTE: *For additional details on attachment of various components, see Section 3.*

Instructions provided are for suggested setups. Final determination of patient positioning and setup is at the discretion of the surgeon and surgical team.

NOTE: *A variety of soft goods are available for use in all setups to ensure optimal patient comfort. For more information, see Section 5.2. Final determination of products used is at the discretion of the surgeon and surgical team.*

7.1 Hip Pinning - Unilateral Skin Traction

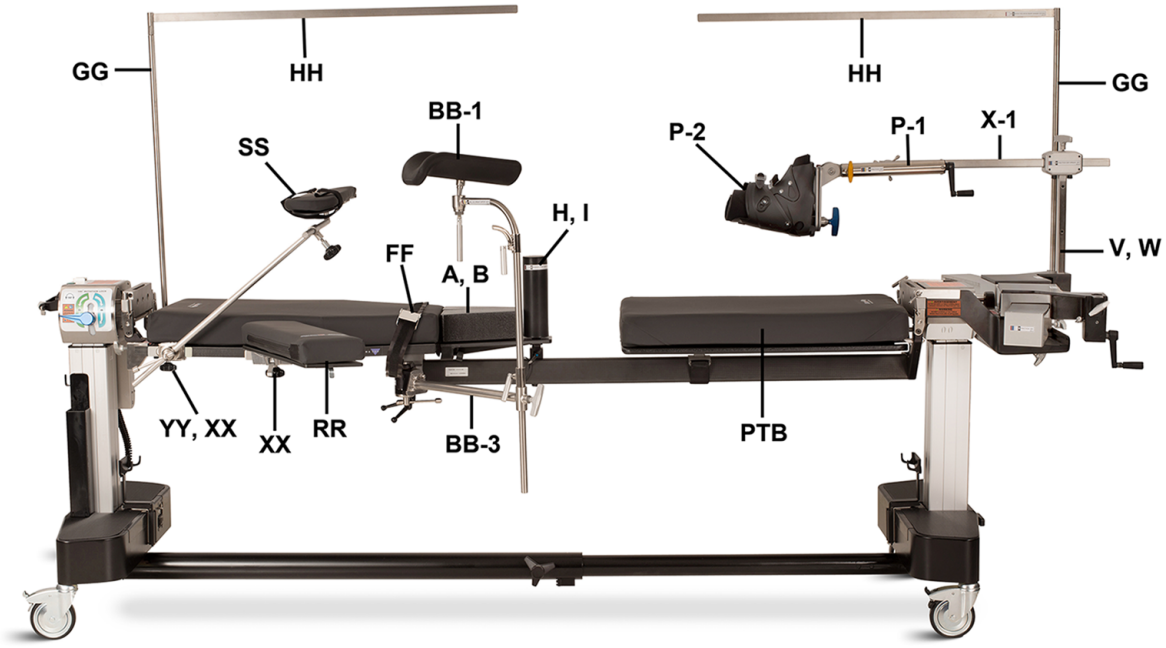


Figure 48: Table Setup for Left Hip Pinning Procedure with Unilateral Traction

1. Ensure that all the casters are locked.

2. Install the Orthopedic Trauma Top. See Section 6.2.
3. Verify that the Rotation Safety Lock, 180° Rotation Lock, and Tilt Drive status lights are illuminated prior to transferring the patient to the table. See NW0646 Advanced Control Base Owner's Manual for additional Base setup instructions.
4. Install the Traction Arc. See Section 6.3.
5. Slide the Traction Arc and the Anatomical Adjustment Roller to the operative side of the table and lock with the Anatomical Lock.
6. Slide the operative side Tractor to the mid-position on the Traction Arc and lock with the Tractor Lock.
7. Install the appropriate Traction Unit Upright (V or W) into the Tractor on the operative side of the table.
8. Install the Traction Extension (X-1) into the Traction Unit Upright with the Traction Unit Receiver facing medially.
9. Attach the Traction Unit (P-1) to the Traction Extension.
10. Attach the Traction Boot (P-2), or Traction Foot Plate (P-2) and Soft Traction Boot (R or S), to the Traction Unit.
11. Install the Patient Transfer Board (PTB) and secure with the locking strap to the Orthopedic Table Spar.
12. Apply the Patient Safety Strap (FF).
13. Slide the G.M. boards (A and B) on the head section of the table over the saddle and lock in place.
14. Install the Well Leg Support Swing Arm (BB-3) to the non-operative side of the table and lock into the mount.

NOTE: *Ensure the T-handle on the Well Leg Support Swing Arm is facing down.*

15. Transfer the patient to the table in the supine position and secure with the Patient Safety Strap (FF).
16. Insert a padded Perineal Post (H or I) into the table.
17. Move the patient to establish firm contact with the Perineal Post and adjust the Patient Safety Strap as appropriate.
18. Install the Well Leg Support (BB-1) into the Well Leg Support Swing Arm.
19. Place the patient's non-operative leg on the Well Leg Support. Pad, and secure the thigh with muslin to the Counter-traction Hook on the Well Leg Upright.
20. Mount a Universal Side Rail Adapter (XX) on the non-operative side of the table. Install the Pivoting Arm Board (RR) on the Universal Side Rail Adapter.
21. Mount a Universal Side Rail Adapter (XX) on the non-operative side of the table at the Head-End. Mount a Clark Socket (YY) on the Universal Side Rail Adapter, and then place the Cross Arm Support (SS) in the Clark Socket and tighten the knob.
22. Pad and secure the patient's arms to the Cross Arm Support and Pivoting Arm Board.
23. Place the patient's foot on the operative leg into the Traction Boot (P-2), or Soft Traction Boot (R or S) secured to the Traction Foot Plate (P-2). Pad and secure the foot.

24. To remove the Patient Transfer Board, release the locking strap on the Orthopedic Table Spar. Locate the locking pin on the left side of the Foot-End and straighten. Slide the Patient Transfer Board toward the Head-End of the table and remove from the non-operative side of the table.
25. If desired, remove the G.M. board from the operative side for improved surgical access.
26. Trial position the C-arm.
27. Install the Patient Isolation Drape Hangers (GG and HH).
28. Prepare the patient.
29. Suspend the Patient Isolation Drape using the Drape Hanger. Drape the patient using the Patient Isolation Drape.



Figure 49: Patient Positioned for a Left Hip Pinning; Unilateral Traction

NOTE: *At the discretion of the surgeon or surgical team, this setup may also be done using the Radiolucent Auxiliary Leg Spar and Tibial Well Leg Support in place of the Well Leg Support and Well Leg Support Swing Arm.*

7.1.1 Parts for Patient Positioning for Hip Pinning; Unilateral Traction

V or W Traction Unit Upright, Left or Right 	**X-1** Traction Extension 	**P-1** Traction Unit 

P-2 Traction Boot, Large or Small 	**P-2** Traction Foot Plate 	**R or S** Soft Traction Boot, Large or Small 
PTB Patient Transfer Board 	**FF** Patient Safety Strap 	**A and B** G.M. Board, Left and Right 
BB-3 Well Leg Support Swing Arm 	**BB-1** Well Leg Support 	**H or I** Perineal Post, Adult or Child 
XX Universal Side Rail Adapter (2) 	**RR** Pivoting Arm Board 	**YY** Clark Socket 

SS	GG	HH
Cross Arm Support	Patient Isolation Drape Hanger (2)	Patient Isolation Drape Hanger (2)
		

NOTE: *See Section 5 for more information on standard components. See Section 8 for more information on optional accessories.*

7.2 Hip Pinning - Bilateral Skin Traction

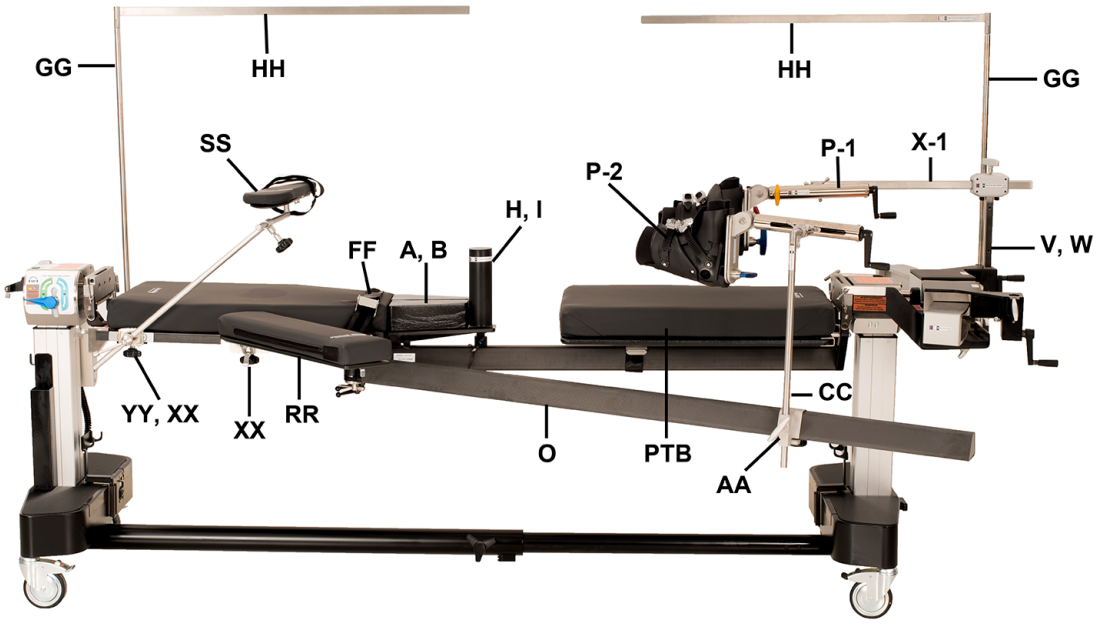


Figure 50: Table Setup for Left Hip Pinning Procedure with Bilateral Traction

1. Ensure that all the casters are locked.
2. Install the Orthopedic Trauma Top. See Section 6.2.
3. Verify that the Rotation Safety Lock, 180° Rotation Lock, and Tilt Drive status lights are illuminated prior to transferring the patient to the table. See NW0646 Advanced Control Base Owner's Manual for additional Base setup instructions.
4. Install the Traction Arc. See Section 6.3.
5. Slide the Traction Arc and the Anatomical Adjustment Roller to the operative side of the table and lock with the Anatomical Lock.
6. Slide the operative side Tractor to the mid-position on the Traction Arc and lock with the Tractor Lock.

7. Install the appropriate Traction Unit Upright (V or W) into the Tractor on the operative side of the table.
8. Install the Traction Extension (X-1) into the Traction Unit Upright with the Traction Unit Receiver facing medially.
9. Attach the Traction Unit (P-1) to the Traction Extension. Attach the Traction Boot (P-2), or Traction Foot Plate (P-2) and Soft Traction Boot (R or S), to the Traction Unit.
10. Install the Patient Transfer Board (PTB) and secure with the locking strap to the Orthopedic Table Spar.
11. Apply the Patient Safety Strap (FF).
12. Slide the G.M. boards (A and B) on the head section of the table over the saddle and lock in place.
13. Install the Radiolucent Auxiliary Leg Spar (O) to the non-operative side of the table and lock into the mount.

NOTE: *Ensure the T-handle on the Radiolucent Auxiliary Leg Spar is facing down.*

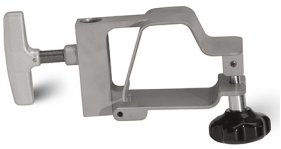
14. Transfer the patient to the table in the supine position and secure with the Patient Safety Strap (FF).
15. Insert a padded Perineal Post (H or I) into the table.
16. Move the patient to establish firm contact with the Perineal Post and adjust the Patient Safety Strap as appropriate.
17. Install the Accessory Clamp (AA) on the Radiolucent Auxiliary Leg Spar and insert the Leg Spar Upright (CC) medially.
18. Install the Traction Unit (P-1) on the Leg Spar Upright with the Traction Boot (P-2), or Traction Foot Plate (P-2) and Soft Traction Boot (R or S), attached.
19. Place the patient's foot on the non-operative leg into the Traction Boot (P-2), or Soft Traction Boot (R or S) secured to the Traction Foot Plate (P-2). Pad and secure the patient's foot.
20. Mount a Universal Side Rail Adapter (XX) on the non-operative side of the table. Install the Pivoting Arm Board (RR) on the Universal Side Rail Adapter.
21. Mount a Universal Side Rail Adapter (XX) on the non-operative side of the table at the Head-End. Mount a Clark Socket (YY) on the Universal Side Rail Adapter, and then place the Cross Arm Support (SS) in the Clark Socket and tighten the knob.
22. Pad and secure the patient's arms to the Cross Arm Support and Pivoting Arm Board.
23. Place the patient's foot on the operative leg into the Traction Boot (P-2), or Traction Foot Plate (P-2) and Soft Traction Boot (R or S). Pad and secure the foot.
24. To remove the Patient Transfer Board, release the locking strap on Orthopedic Table Spar. Locate the locking pin on the left side of the Foot-End and straighten. Slide the Patient Transfer Board toward the Head-End of the table and remove from the non-operative side of the table.
25. If desired, remove the G.M. board from the operative side for improved surgical access.
26. Trial position the C-arm.
27. Install the Patient Isolation Drape Hangers (GG and HH).
28. Prepare the patient.
29. Suspend the Patient Isolation Drape using the Drape Hanger. Drape the patient using the Patient Isolation Drape.



Figure 51: Patient Positioned for a Left Hip Pinning; Bilateral Traction

7.2.1 Parts for Patient Positioning for Hip Pinning; Bilateral Traction

V or W Traction Unit Upright, Left or Right 	**X-1** Traction Extension 	**P-1** Traction Unit 
P-2 Traction Boot, Large or Small (2) 	**P-2** Traction Foot Plate (2) 	**R or S** Soft Traction Boot, Large or Small (2) 

PTB Patient Transfer Board 	**FF** Patient Safety Strap 	**A and B** G.M.Board, Left and Right 
O Radiolucent Auxiliary Leg Spar 	**AA** Accessory Clamp 	**CC** Leg Spar Upright 
H or I Perineal Post, Adult or Child 	**XX** Universal Side Rail Adapter (2) 	**RR** Pivoting Arm Board 
YY Clark Socket 	**SS** Cross Arm Support 	**GG** Patient Isolation Drape Hanger (2)

HH Patient Isolation Drape Hanger (2) 		

NOTE: *See Section 5 for more information on standard components. See Section 8 for more information on optional accessories.*

7.3 IM Femur Nailing, Supine - Unilateral Skeletal Traction

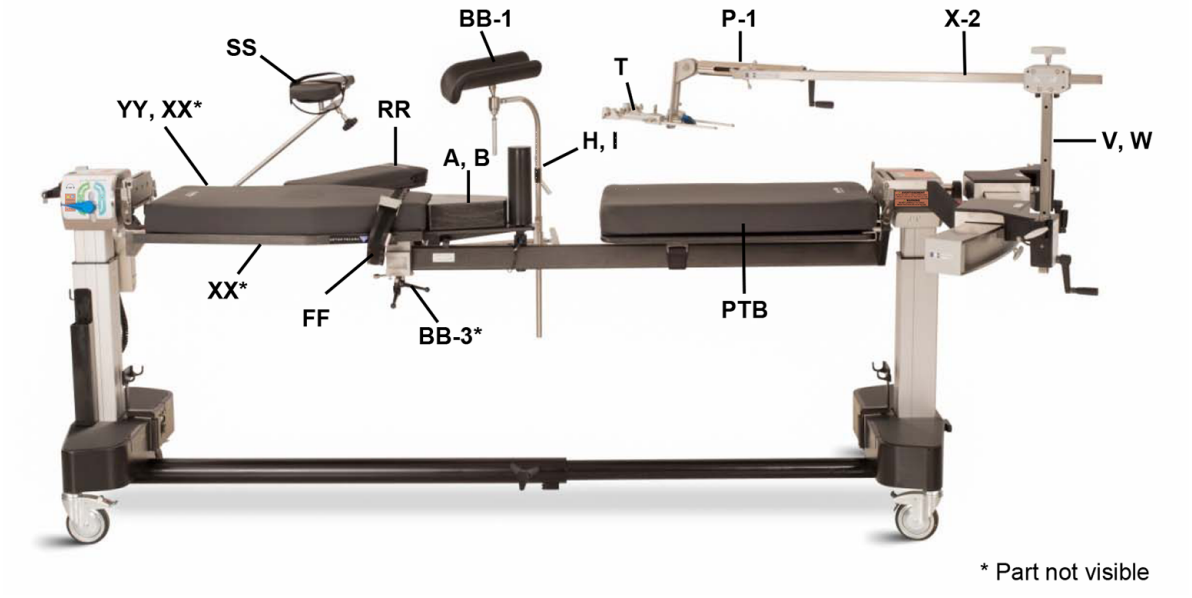


Figure 52: Table Setup for Right Femoral IM Nailing Procedure with Skeletal Traction

1. Ensure that all the casters are locked.
2. Install the Orthopedic Trauma Top. See Section 6.2.
3. Verify that the Rotation Safety Lock, 180° Rotation Lock, and Tilt Drive status lights are illuminated prior to transferring the patient to the table. See NW0646 Advanced Control Base Owner's Manual for additional Base setup instructions.
4. Install the Traction Arc. See Section 6.3.
5. Slide the Traction Arc and the Anatomical Adjustment Roller to the operative side of the table and lock with the Anatomical Lock.
6. Slide the operative side Tractor to the mid-position on the Traction Arc and lock with the Tractor Lock.
7. Install the appropriate Traction Unit Upright (V or W) into the Tractor on the operative side of the table.

8. Install the Traction Extension (X-2) into the Traction Unit Upright with the Traction Unit Receiver facing medially.
9. Attach the Traction Unit (P-1) with the 90 Degree Pin and Wire Holder (T) to the Traction Extension.
10. Install the Patient Transfer Board (PTB) and secure with the locking strap to the Orthopedic Table Spar.
11. Apply the Patient Safety Strap (FF).
12. Slide the G.M. boards (A and B) on the head section of the table over the saddle and lock in place.
13. Install the Well Leg Support Swing Arm (BB-3) to the non-operative side of the table and lock into the mount.

NOTE: *Ensure the T-handle on the Well Leg Support Swing Arm is facing down.*

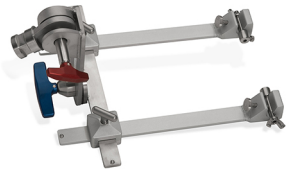
14. Transfer the patient to the table in the supine position and secure with the Patient Safety Strap (FF).
15. Insert a padded Perineal Post (H or I) into the table.
16. Move the patient to establish firm contact with the Perineal Post and adjust the Patient Safety Strap as appropriate.
17. Install the Well Leg Support (BB-1) into the Well Leg Support Swing Arm.
18. Place the patient's non-operative leg on the Well Leg Support, pad, and secure the thigh with muslin to the Counter-traction Hook on the Well Leg Upright.
19. Mount a Universal Side Rail Adapter (XX) on the non-operative side of the table. Install the Pivoting Arm Board (RR) on the Universal Side Rail Adapter.
20. Mount a Universal Side Rail Adapter (XX) on the non-operative side of the table at the Head-End. Mount a Clark Socket (YY) on the Universal Side Rail Adapter, and then place the Cross Arm Support (SS) in the Clark Socket and tighten the knob.
21. Pad and secure the patient's arms to the Cross Arm Support and Pivoting Arm Board.
22. Secure the Kirschner wire in the patient's operative leg into the 90 Degree Pin and Wire Holder (T).
23. Secure the patient's lower leg to the Traction Unit with a muslin strap to support the heel.
24. To remove the Patient Transfer Board, release the locking strap on the Orthopedic Table Spar. Locate the locking pin on the left side of the Foot-End and straighten. Slide the Patient Transfer Board toward the Head-End of the table and remove from the non-operative side of the table.
25. Trial position the C-arm.
26. Prepare the patient.

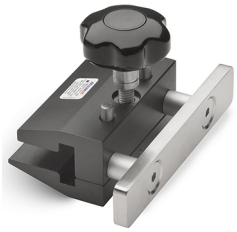


Figure 53: Patient Positioned for a Right IM Femoral Nailing; Supine, Unilateral Traction

NOTE: *At the discretion of the surgeon or surgical team, this setup may also be done using the Radiolucent Auxiliary Leg Spar and Tibial Well Leg Support in place of the Well Leg Support and Well Leg Support Swing Arm.*

7.3.1 Parts for Patient Positioning for an IM Femoral Nailing; Supine with Unilateral Traction

V or W Traction Unit Upright, Left or Right 	**X-2** Traction Extension, Long 	**P-1** Traction Unit 
T 90 Degree Pin and Wire Holder 	**PTB** Patient Transfer Board 	**FF** Patient Safety Strap 

A and B G.M. Board, Left and Right 	**BB-3** Well Leg Support Swing Arm 	**BB-1** Well Leg Support 
H or I Perineal Post, Adult or Child 	**XX** Universal Side Rail Adapter (2) 	**RR** Pivoting Arm Board 
YY Clark Socket 	**SS** Cross Arm Support 	

NOTE: *See Section 5 for more information on standard components, See Section 8 for more information on optional accessories.*

7.4 IM Femur Nailing, Supine - Bilateral Traction, Skeletal and Skin

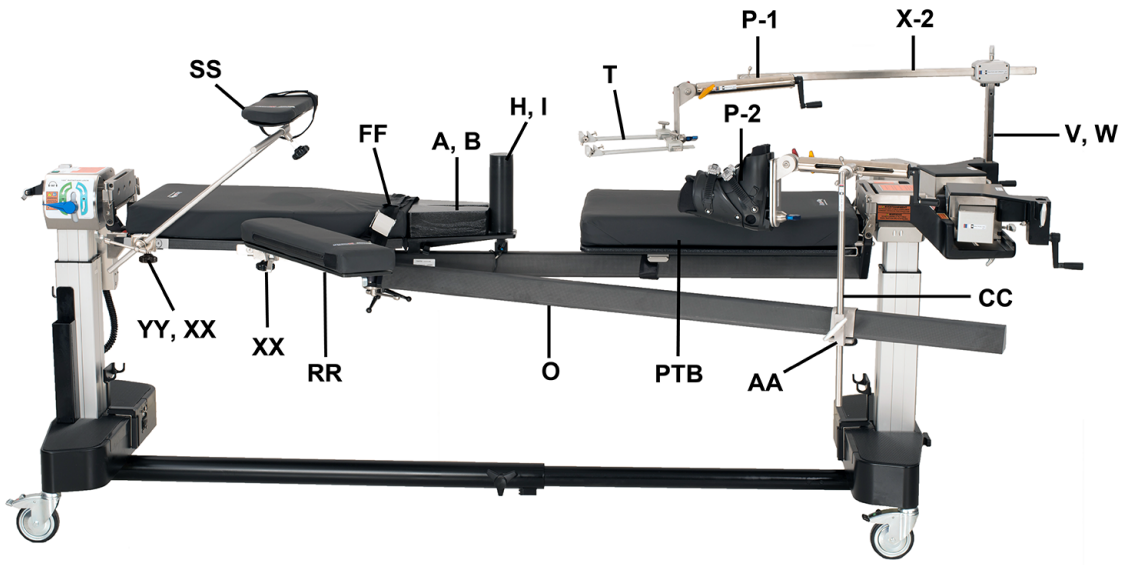


Figure 54: Table Setup for Left IM Femoral Nailing Procedure with Bilateral Traction

1. Ensure that all the casters are locked.
2. Install the Orthopedic Trauma Top. See Section 6.2.
3. Verify that the Rotation Safety Lock, 180° Rotation Lock, and Tilt Drive status lights are illuminated prior to transferring the patient to the table. See NW0646 Advanced Control Base Owner's Manual for additional Base setup instructions.
4. Install the Traction Arc. See Section 6.3.
5. Slide the Traction Arc and the Anatomical Adjustment Roller to the operative side of the table and lock with the Anatomical Lock.
6. Slide the operative side Tractor to the mid-position on the Traction Arc and lock with the Tractor Lock.
7. Install the appropriate Traction Unit Upright (V or W) into the Tractor on the operative side of the table.
8. Install the Traction Extension (X-2) into the Traction Unit Upright with the Traction Unit Receiver facing medially.
9. Attach the Traction Unit (P-1) with the 90 Degree Pin and Wire Holder (T) to the Traction Extension.
10. Install the Patient Transfer Board (PTB) and secure with the locking strap to the Orthopedic Table Spar.
11. Apply the Patient Safety Strap (FF).
12. Slide the G.M. boards (A and B) on the head section of the table over the saddle and lock in place.
13. Install the Radiolucent Auxiliary Leg Spar (O) to the non-operative side of the table and lock into the mount.

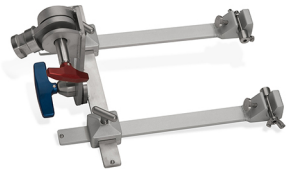
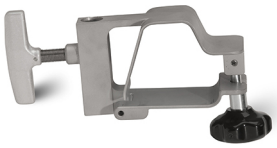
NOTE: *Ensure the T-handle on the Radiolucent Auxiliary Leg Spar is facing down.*

14. Transfer the patient to the table in the supine position and secure with the Patient Safety Strap (FF).
15. Insert a padded Perineal Post (H or I) into the table. Move the patient to establish firm contact with the Perineal Post and adjust the Patient Safety Strap as appropriate.
16. Install an Accessory Clamp (AA) on the Radiolucent Auxiliary Leg Spar and insert the Leg Spar Upright (CC) medially.
17. Install the Traction Unit (P-1) on the Leg Spar Upright with the Traction Boot (P-2), or Traction Foot Plate (P-2) and Soft Traction Boot (R or S), attached.
18. Place the patient's foot on the non-operative leg into the Traction Boot (P-2), or Soft Traction Boot (R or S) secured to the Traction Foot Plate (P-2). Pad and secure the foot.
19. Secure the Kirschner wire in the patient's operative leg into the 90 Degree Pin and Wire Holder.
20. Secure the patient's lower leg to the Traction Unit with a muslin strap to support the heel.
21. Mount a Universal Side Rail Adapter (XX) on the non-operative side of the table. Install the Pivoting Arm Board (RR) on the Universal Side Rail Adapter.
22. Mount a Universal Side Rail Adapter (XX) on the non-operative side of the table at the Head-End. Mount a Clark Socket (YY) on the Universal Side Rail Adapter, and then place the Cross Arm Support (SS) in the Clark Socket and tighten the knob.
23. Pad and secure the patient's arms to the Cross Arm Support and Pivoting Arm Board.
24. To remove the Patient Transfer Board, release the locking strap on the Orthopedic Table Spar. Locate the locking pin on the left side of the Foot-End and straighten. Slide the Patient Transfer Board toward the Head-End of the table and remove from the non-operative side of the table.
25. Trial position the C-arm.
26. Prepare the patient.



Figure 55: Patient Positioned for a Left IM Femoral Nailing Procedure with Bilateral Traction

7.4.1 Parts for Patient Positioning for an IM Femoral Nailing; Bilateral Traction

V or W Traction Unit Upright, Left or Right 	**X-2** Traction Extension, Long 	**P-1** Traction Unit 
T 90 Degree Pin and Wire Holder 	**PTB** Patient Transfer Board 	**FF** Patient Safety Strap 
A and B G.M. Board, Left and Right 	**O** Radiolucent Auxiliary Leg Spar 	**H or I** Perineal Post, Adult or Child 
AA Accessory Clamp 	**CC** Leg Spar Upright 	**P-2** Traction Boot, Large or Small 

P-2 Traction Foot Plate 	**R or S** Soft Traction Boot, Large or Small 	**XX** Universal Side Rail Adapter (2) 
RR Pivoting Arm Board 	**YY** Clark Socket 	**SS** Cross Arm Support 

NOTE: *See Section 5 for more information on standard components. See Section 8 for more information on optional accessories.*

7.5 IM Femur Nailing, Lateral Decubitus Position - Unilateral Skeletal Traction

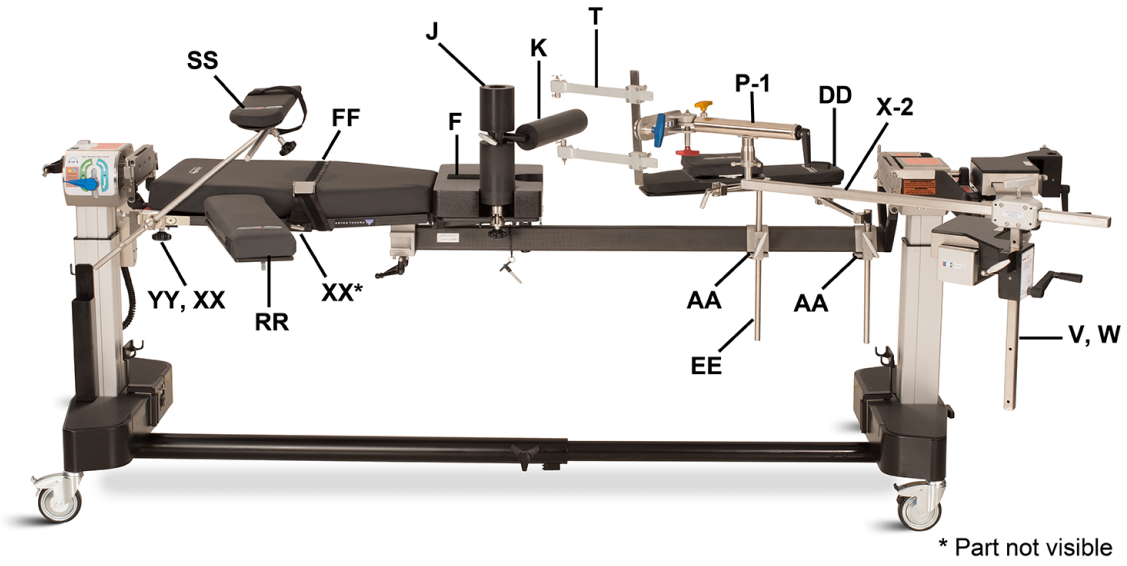


Figure 56: Table Setup for Left Femoral IM Nailing Procedure with Skeletal Traction

1. Ensure that all the casters are locked.
2. Install the Orthopedic Trauma Top. See Section 6.2.
3. Verify that the Rotation Safety Lock, 180° Rotation Lock, and Tilt Drive status lights are illuminated prior to transferring the patient to the table. See NW0646 Advanced Control Base Owner's Manual for additional Base setup instructions.
4. Install the Traction Arc. See Section 6.3.
5. Slide the Traction Arc and the Anatomical Adjustment Roller to the non-operative side of the table and lock with the Anatomical Lock.
6. With the Traction Arc extended to its full length on the non-operative side of the table, slide one Tractor to the end of the Traction Arc on the non-operative side of the table and lock with the Tractor Lock.
7. Slide the other Tractor to the mid-position on the Traction Arc and lock with the Tractor Lock.
8. Install the appropriate Traction Unit Upright (V or W) into the Tractor positioned at the lateral end of the Traction Assembly.
9. Install the Traction Extension (X-2) into the Traction Unit Upright with the Traction Unit Receiver facing up.
10. Attach the Traction Unit (P-1) with the 90 Degree Pin and Wire Holder (T) to the Traction Extension.
11. Rotate the 90 Degree Pin and Wire Holder (T) 90 degrees by releasing the Gold Lock Handle.
12. Apply the Patient Safety Strap (FF).

13. Slide the Center Support Board (F) onto the head section of the table and secure with the locking knob under the table top.
14. Insert the Center Support Plug into the receiver hole at the distal end of the Center Support Board.
15. Attach two Accessory Clamps (AA) to the Orthopedic Table Spar near the Foot-End with the receivers on the non-operative side of the table.
16. Insert the Leg Board (DD) into the distal Accessory Clamp and position at table top height.
17. Insert the Lower Leg Support (EE) into the proximal Accessory Clamp and position six inches above the Leg Board.
18. Transfer the patient to the table in the supine position. With the surgical team supporting the patient, position the patient with the non-operative thigh on the Center Support Board.
19. Roll the patient into the lateral position with operative side up and secure with the Patient Safety Strap (FF).
20. Insert the Ilium Post (J) with the Lateral Perineal Post (K) into the non-operative side of the Center Support Board.
21. Rotate the Ilium Post to adjust the Lateral Perineal Post approximately 30 degrees with the elbow toward the Foot-End of the table and lock using the locking knob on the Ilium Post.

NOTE: *At the discretion of the surgeon, lateral positioners may also be used. See Section 8 for more information.*

22. Place the lower (non-operative) leg on the Leg Board and adjust the board position as required. Lock the Rotational Lock; pad and secure the leg.
23. Position the operative leg in the 90 Degree Pin and Wire Holder and secure the Kirschner wire to the holder.
24. Position the calf of the operative leg on the Lower Leg Support Board; pad and secure the leg.
25. Mount a Universal Side Rail Adapter (XX) on the non-operative side of the table. Install the Pivoting Arm Board (RR) on the Universal Side Rail Adapter.
26. Mount a Universal Side Rail Adapter (XX) on the non-operative side of the table at the Head-End. Mount a Clark Socket (YY) on the Universal Side Rail Adapter, and then place the Cross Arm Support (SS) in the Clark Socket and tighten the knob.
27. Pad and secure the patient's arms to the Cross Arm Support and Pivoting Arm Board.
28. Trial position the C-arm.
29. Prepare the patient.

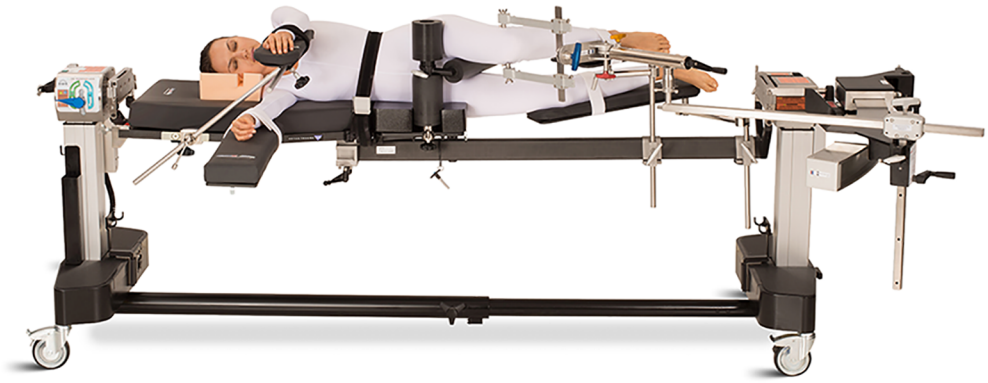
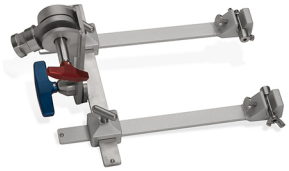
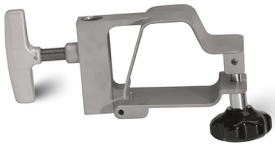


Figure 57: Patient Positioned for a Left IM Femoral IM Nailing Procedure with Skeletal Traction

7.5.1 Parts for Patient Positioning for an IM Femoral Nailing; Lateral Decubitus Position with Skeletal Traction

V or W Traction Unit Upright, Left or Right 	**X-2** Traction Extension, Long 	**P-1** Traction Unit 
T 90 Degree Pin and Wire Holder 	**FF** Patient Safety Strap 	**F** Center Support Board 

AA Accessory Clamp (2) 	**DD** Leg Board 	**EE** Lower Leg Support 
J Ilium Post 	**K** Lateral Perineal Post 	**XX** Universal Side Rail Adapter (2) 
RR Pivoting Arm Board 	**YY** Clark Socket 	**SS** Cross Arm Support 

NOTE: *See Section 5 for more information on standard components. See Section 8 for more information on optional accessories.*

7.6 IM Femur Nailing, Lateral Decubitus Position - Bilateral Skin Traction

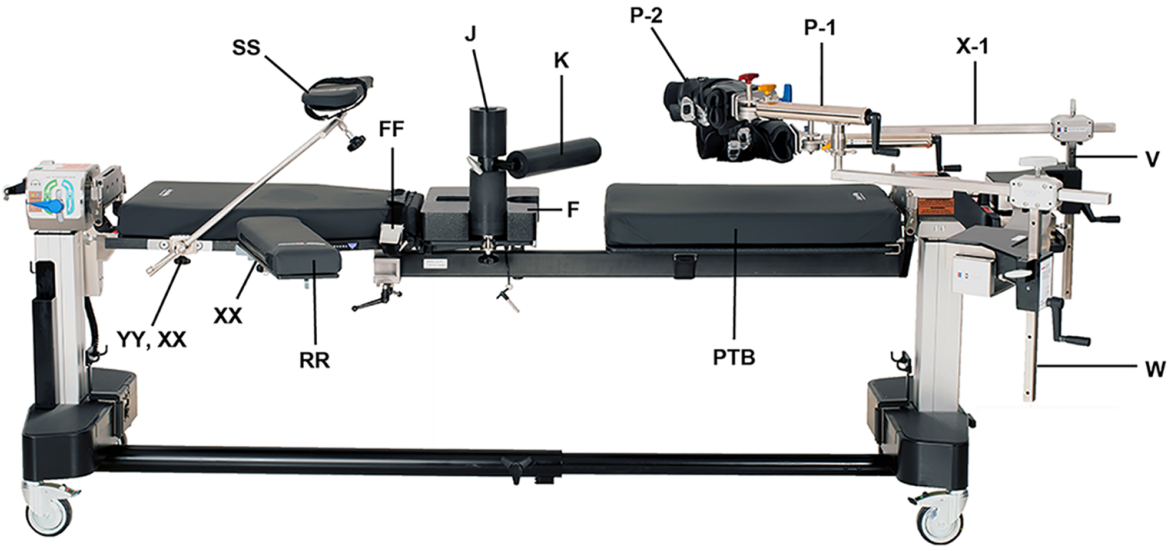


Figure 58: Table Setup for Left Femoral Nailing Procedure with Bilateral Skin Traction

1. Ensure that all the casters are locked.
2. Install the Orthopedic Trauma Top. See Section 6.2.
3. Verify that the Rotation Safety Lock, 180° Rotation Lock, and Tilt Drive status lights are illuminated prior to transferring the patient to the table. See NW0646 Advanced Control Base Owner's Manual for additional Base setup instructions.
4. Install the Traction Arc. See Section 6.3.
5. Slide the Traction Arc and the Anatomical Adjustment Roller to the non-operative side of the table and lock with the Anatomical Lock.
6. With the Traction Arc extended to its full length on the non-operative side of the table, slide one Tractor to the end of the Traction Arc on the non-operative side of the table and lock with the Tractor Lock.
7. Slide the other Tractor to the mid-position on the Traction Arc and lock with the Tractor Lock.
8. Install the appropriate Traction Unit Upright (V or W) into the Tractor positioned most laterally on the Traction Arc. Install the Traction Extension (X-1) into the Traction Unit Upright with the Traction Unit Receiver facing up.
9. Attach the Traction Unit (P-1) with the Traction Boot (P-2), or Traction Foot Plate (P-2) and Soft Traction Boot (R or S), to the Traction Extension.
10. Install the remaining Traction Unit Upright (V or W) into the Tractor in the mid-position on the Traction Arc. Install the Traction Extension (X-1) into the Traction Unit Upright with the Traction Unit Receiver facing medially.
11. Attach the Traction Unit (P-1) with the Traction Boot (P-2), or Traction Foot Plate (P-2) and Soft Traction Boot (R or S), to the Traction Extension.

12. Rotate the Traction Boots (P-2), or Traction Foot Plates (P-2) and Soft Traction Boots (R or S), by releasing the Gold Lock Handle and rotating 90 degrees towards the non-operative side of the table.
13. Install the Patient Transfer Board (PTB) and secure with the locking strap to the Orthopedic Table Spar.
14. Apply the Patient Safety Strap (FF).
15. Slide the Center Support Board (F) on the head section of the table and secure with the locking knob under the table top.
16. Insert the Center Support Plug into the receiver hole at the distal end of the Center Support Board.
17. Transfer the patient to the table in the supine position. With the surgical team supporting the patient, position the patient with the non-operative thigh on the Center Support Board.
18. Roll the patient into the lateral position with operative side up and secure with the Patient Safety Strap (FF).
19. Insert the Ilium Post (J) with the Lateral Perineal Post (K) into the non-operative side of the Center Support Board. Rotate the Ilium Post to adjust the Lateral Perineal Post approximately 30 degrees with the elbow toward the Foot-End of the table and lock using the locking knob on the Ilium Post.
20. Rotate the Ilium Post to adjust the Lateral Perineal Post approximately 30 degrees with the elbow toward the Foot-End of the table and lock using the locking knob on the Ilium Post.
21. Place the patient's feet in the Traction Boots (P-2), or Soft Traction Boots (R or S) secured to the Traction Foot Plates (P-2). Pad and secure the feet.
22. Mount a Universal Side Rail Adapter (XX) on the non-operative side of the table. Install the Pivoting Arm Board (RR) on the Universal Side Rail Adapter.
23. Mount a Universal Side Rail Adapter (XX) on the non-operative side of the table at the Head-End. Mount a Clark Socket (YY) on the Universal Side Rail Adapter, and then place the Cross Arm Support (SS) in the Clark Socket and tighten the knob.
24. Pad and secure the patient's arms to the Cross Arm Support and Pivoting Arm Board.
25. To remove the Patient Transfer Board, release the locking strap on the Orthopedic Table Spar. Locate the locking pin on the left side of the Foot-End and straighten. Slide the Patient Transfer Board toward the Head-End of the table and remove from the non-operative side of the table.
26. Trial position the C-arm.
27. Prepare the patient.

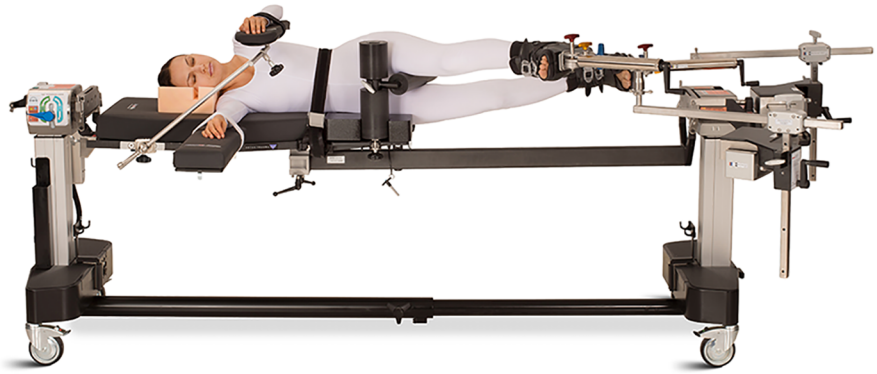


Figure 59: Patient Positioned for Left IM Femoral Nailing; Lateral Decubitus Position with Bilateral Traction

7.6.1 Parts for Patient Positioning for IM Femoral Nailing; Lateral Decubitus Position with Bilateral Skin Traction

V and W Traction Unit Upright, Left and Right 	**X-1** Traction Extension (2) 	**P-1** Traction Unit (2) 
P-2 Traction Boot, Large or Small (2) 	**P-2** Traction Foot Plate (2) 	**R or S** Soft Traction Boot, Large or Small (2) 

PTB Patient Transfer Board 	**FF** Patient Safety Strap 	**F** Center Support Board 
J Ilium Post 	**K** Lateral Perineal Post 	**XX** Universal Side Rail Adapter (2) 
RR Pivoting Arm Board 	**YY** Clark Socket 	**SS** Cross Arm Support 

NOTE: *See Section 5 for more information on standard components. See Section 8 for more information on optional accessories.*

7.7 IM Femur Nailing, Lateral Decubitus Position - Unilateral Skin Traction

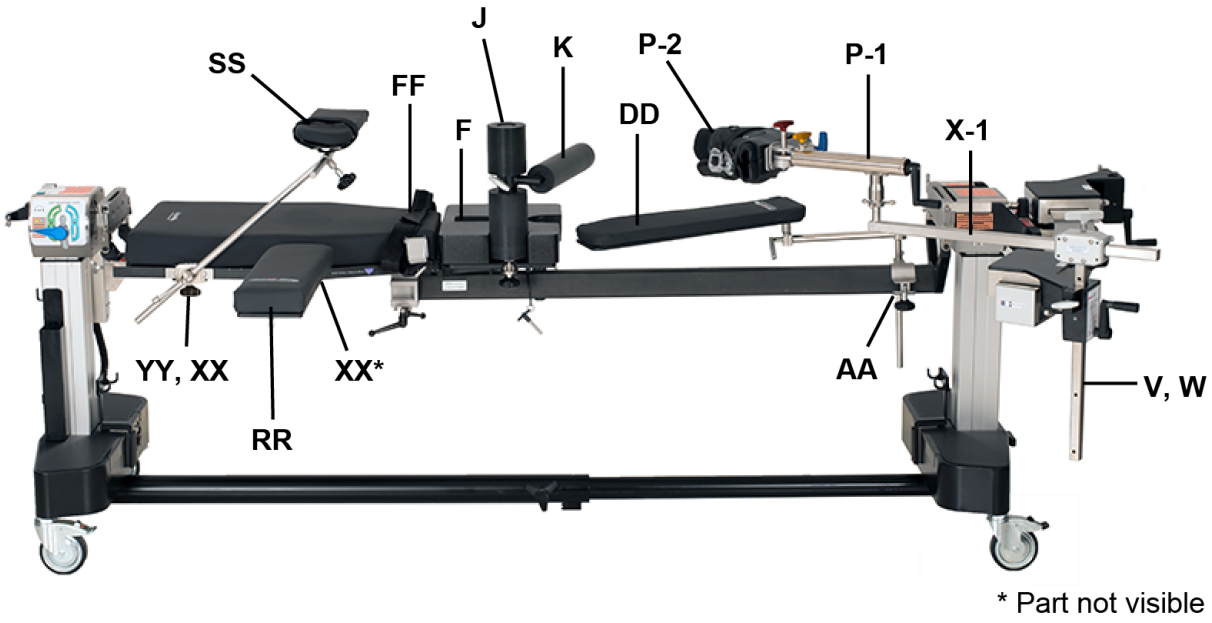


Figure 60: Table Setup for Left Femoral IM Nailing Procedure with Unilateral Skin Traction

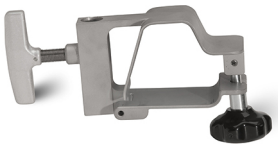
1. Ensure that all the casters are locked.
2. Install the Orthopedic Trauma Top. See Section 6.2.
3. Verify that the Rotation Safety Lock, 180° Rotation Lock, and Tilt Drive status lights are illuminated prior to transferring the patient to the table. See NW0646 Advanced Control Base Owner's Manual for additional Base setup instructions.
4. Install the Traction Arc. See Section 6.3.
5. Slide the Traction Arc and the Anatomical Adjustment Roller to the non-operative side of the table and lock with the Anatomical Lock.
6. With the Traction Arc extended to its full length on the non-operative side of the table, slide one Tractor to each end of the Traction Arc and lock with the Tractor Lock.
7. Install the appropriate Traction Unit Upright (V or W) into the Tractor positioned at the lateral end of the Traction Arc.
8. Install the Traction Extension (X-1) into the Traction Unit Upright with the Traction Unit Receiver facing up.
9. Attach the Traction Unit (P-1) with the Traction Boot (P-2), or Traction Foot Plate (P-2) and Soft Traction Boot (R or S), to the Traction Extension.
10. Rotate the Traction Boot (P-2), or Traction Foot Plate (P-2) and Soft Traction Boot (R or S), by releasing the Gold Lock Handle and rotating 90 degrees towards the non-operative side of the table.
11. Apply the Patient Safety Strap (FF).

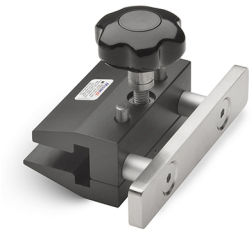
12. Slide the Center Support Board (F) on the head section of the table and secure with the locking knob under the table top.
13. Insert the Center Support Plug into the receiver hole at the distal end of the Center Support Board.
14. Attach the Accessory Clamp (AA) to the Orthopedic Table Spar near the Foot-End with the receiver on the operative side of the table.
15. Insert the Leg Board (DD) into the Accessory Clamp and position at table top height.
16. Transfer the patient to the table in the supine position. With the surgical team supporting the patient, position the patient with the non-operative thigh on the Center Support Board.
17. Roll the patient into the lateral position with operative side up and secure with the Patient Safety Strap (FF).
18. Insert the Ilium Post (J) with the Lateral Perineal Post (K) into the non-operative side of the Center Support Board.
19. Rotate the Ilium Post to adjust the Lateral Perineal Post approximately 30 degrees with the elbow toward the Foot-End of the table and lock using the locking knob on the Ilium Post.
20. Place the patient's lower (non-operative) leg on the Leg Board, adjust the board position as required, and apply the Rotational Lock; pad and secure the leg.
21. Place the patient's foot on the operative leg in the Traction Boot (P-2), or Soft Traction Boot (R or S) secured to the Traction Foot Plate (P-2). Pad and secure the foot.
22. Mount a Universal Side Rail Adapter (XX) on the non-operative side of the table. Install the Pivoting Arm Board (RR) on the Universal Side Rail Adapter.
23. Mount a Universal Side Rail Adapter (XX) on the non-operative side of the table at the Head-End. Mount a Clark Socket (YY) on the Universal Side Rail Adapter, and then place the Cross Arm Support (SS) in the Clark Socket and tighten the knob.
24. Pad and secure the patient's arms to the Cross Arm Support and Pivoting Arm Board.
25. Trial position the C-arm.
26. Prepare the patient.



Figure 61: Patient Positioned for Left IM Femoral Nailing; Lateral Decubitus Position with Unilateral Skin Traction

7.7.1 Parts for Patient Positioning for an IM Femoral Nailing; Lateral Decubitus Position with Unilateral Skin Traction

V or W Traction Unit Upright, Left or Right 	**X-1** Traction Extension 	**P-1** Traction Unit 
P-2 Traction Boot, Large or Small 	**P-2** Traction Foot Plate 	**R or S** Soft Traction Boot, Large or Small 
FF Patient Safety Strap 	**F** Center Support Board 	**AA** Accessory Clamp 
DD Leg Board 	**J** Ilium Post 	**K** Lateral Perineal Post 

XX Universal Side Rail Adapter (2) 	**RR** Pivoting Arm Board 	**YY** Clark Socket 
SS Cross Arm Support 		

NOTE: *See Section 5 for more information on standard components. See Section 8 for more information on optional accessories.*

7.8 IM Tibia Nailing

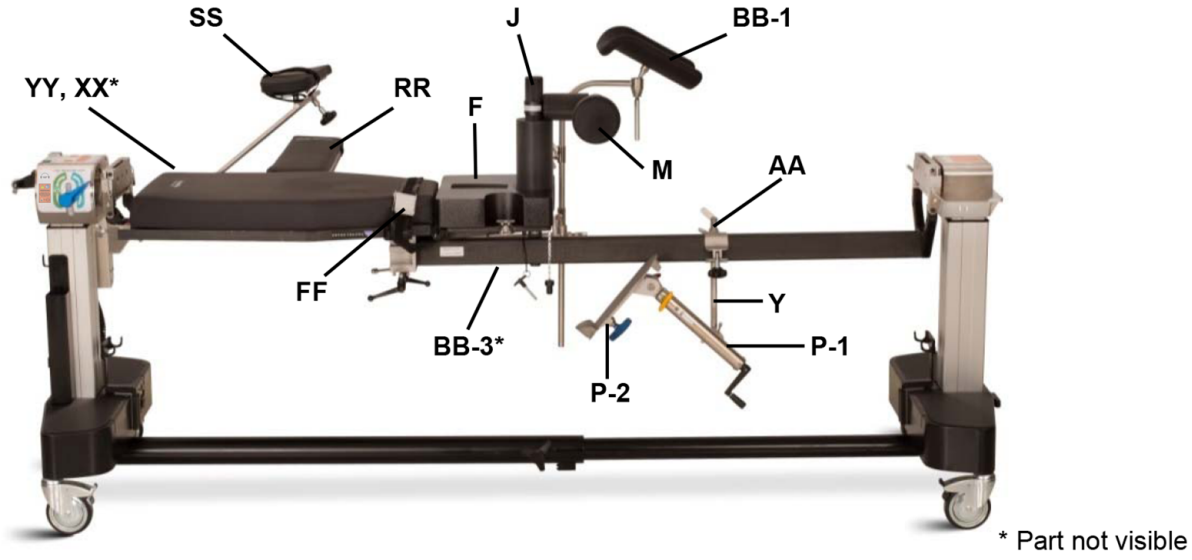


Figure 62: Table Setup for Right Tibial Nailing Procedure with Skin Traction

1. Ensure that all the casters are locked.
2. Install the Orthopedic Trauma Top. See Section 6.2.

3. Verify that the Rotation Safety Lock, 180° Rotation Lock, and Tilt Drive status lights are illuminated prior to transferring the patient to the table. See NW0646 Advanced Control Base Owner's Manual for additional Base setup instructions.
4. Attach the Accessory Clamp (AA) to the Orthopedic Table Spar near the Foot-End with the receiver on the non-operative side of the table.
5. Insert the Tibia Traction Upright (Y) into the Accessory Clamp from the bottom with the Traction Unit Receiver facing the operative side of the table.
6. Attach the Traction Unit (P-1) to the Tibia Traction Upright.
7. Attach the Traction Foot Plate (P-2) to the Traction Unit.

NOTE: *The Traction Boot may not be used if an interlocking nail is to be inserted.*

8. Apply the Patient Safety Strap (FF).
9. Slide the Center Support Board (F) on the head section of the table and secure with the locking knob under the table top.
10. Insert the Center Support Plug into the receiver hole at the distal end of the Center Support Board.
11. Install the Well Leg Support Swing Arm (BB-3) to the non-operative side of the table and lock into the mount.

NOTE: *Ensure the T-handle on the Well Leg Support Swing Arm is facing down.*

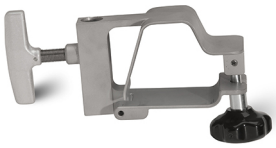
12. Transfer the patient to the table in the supine position with the surgical team supporting the patient and secure with the Patient Safety Strap (FF).
13. Insert the Tibia Support Upright (L) into the table receiver tube located in the middle of the Center Support Board.
14. Attach the Tibia Counter-Traction Post (M) to the Tibia Support Upright and reposition the patient on the table. Readjust and secure the Patient Safety Strap as appropriate.
15. Install the Well Leg Support (BB-1) into the Well Leg Support Swing Arm.
16. Place the patient's non-operative leg on the Well Leg Support; pad and secure the leg.
17. Place the patient's operative foot on the Traction Foot Plate; pad and secure the foot.
18. Mount a Universal Side Rail Adapter (XX) on the non-operative side of the table. Install the Pivoting Arm Board (RR) on the Universal Side Rail Adapter.
19. Mount a Universal Side Rail Adapter (XX) on the non-operative side of the table at the Head-End. Mount a Clark Socket (YY) on the Universal Side Rail Adapter, and then place the Cross Arm Support (SS) in the Clark Socket and tighten the knob.
20. Pad and secure the patient's arms to the Cross Arm Support and Pivoting Arm Board.
21. Trial position the C-arm.
22. Prepare the patient.

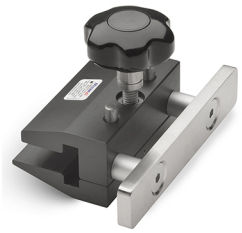
CAUTION: It is important that the Tibia Counter-Traction Post be placed against the distal femur, 2 to 3 inches (5 to 7.6 cm) proximal to the popliteal fossa. Placement of the post into the fossa may result in a potential neurological or circulatory injury.



Figure 63: Patient Positioned for a Right Tibial IM Nailing

7.8.1 Parts for Patient Positioning for a Tibial IM Nailing

AA Accessory Clamp 	**Y** Tibia Traction Upright 	**P-1** Traction Unit 
P-2 Traction Foot Plate 	**FF** Patient Safety Strap 	**F** Center Support Board 

BB-3 Well Leg Support Swing Arm 	**L** Tibia Support Upright 	**M** Tibia Counter-Traction Post 
BB-1 Well Leg Support 	**XX** Universal Side Rail Adapter (2) 	**RR** Pivoting Arm Board 
YY Clark Socket 	**SS** Cross Arm Support 	

NOTE: *See Section 5 for more information on standard components. See Section 8 for more information on optional accessories.*

8 Optional Accessories

8.1 Orthopedic Trauma Top Optional Accessories

Many optional accessories are available for use on the Orthopedic Trauma Top.

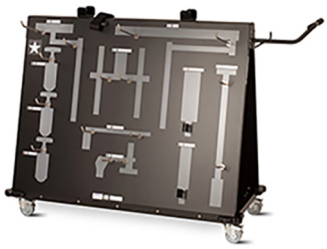
To place an order for standard components or optional accessories, contact Mizuho OSI Sales Operations at 1-800-777-4674 within the USA or +1-510-429-1500 outside the USA. At the prompt, select Option 1.

NOTE: *These devices are intended for use by trained personnel. Prior to set-up and use of the Orthopedic Trauma Top, the Advanced Control Base, and any of the optional accessories available, ensure personnel have been trained. To schedule an in-service, please contact your Mizuho OSI sales representative, local distributor or call 1-800-777-4674 within the USA or +1-510-429-1500 outside the USA.*

NOTE: *Only Mizuho OSI accessories have been tested and approved for use with the Orthopedic Trauma Top. Other manufacturers' products have not been tested for proper performance when used with the Base and the Orthopedic Trauma Top, and therefore are not endorsed for use by Mizuho OSI. Use of other manufacturers' products may void the warranty.*

WARNING: Use of components not manufactured by Mizuho OSI may result in harm to the patient, the table top, the device or the healthcare professional.

REF 5859 Orthopedic Equipment Cart



The Orthopedic Equipment Cart may be used to store the Orthopedic Trauma Top components and accessories when not in use. The Equipment Cart Cover provided with the Cart serves as a dust cover and should be used while the products are in storage.

REF 5855-865 Traction Boot, Extra-Large Pair



The Traction Boot is one option available to secure the patient's foot to the Traction Unit for procedures requiring traction. The optional Extra-Large size is available for use on patients where the standard sizes do not fit.

The standard black boot liners can be replaced. In addition, disposable boot liners are available. (See Section 5.2 for ordering information.)

(a) REF FE00388 Boot Liners, Extra-Large Pair
(b) REF 5855-441 Blue Handle

SS REF 5857 Cross Arm Support with Pad



The Cross-Arm Support may be mounted onto the Orthopedic Trauma Top with a Universal Side Rail Adapter and Clark Socket to support the patient's arm over his or her chest. This accessory comes with a one inch (2.5 cm) Tempur-Pedic® Medical Pad.

(a) REF 5855-402 Knob Assembly
(b) REF 5857-7000 Cross Arm Pad Assembly

RR REF 5356 Pivoting Arm Board with Tempur-Pedic® Medical Pad



The Pivoting Arm Board may be mounted onto the Othopedic Trauma Top with a Universal Side Rail Adapter to provide support for a patient's arm. The Pivoting Arm Board provides 0 to 180 degrees of adjustment and is available with a 2 inch (5.1 cm) Tempur-Pedic® Medical Pad.

(a) REF 5356-7000 Arm Board Tempur-Pedic® Medical Pad, 2-inch
(b) REF 5362-6 Pivoting Arm Board without Pad

YY REF 5393 Clark Socket



The Clark Socket attaches to the Universal Side Rail Adapter to facilitate attachment of additional accessories, including the Cross Arm Support.

REF 6977-973 Universal Side Rail Adapter, Long



The Long Universal Side Rail Adapter attaches to the carbon fiber rails of the Orthopedic Trauma Top. It provides 18 inches (45.7 cm) of side rail for mounting multiple accessories.

REF 5300-2 Shoulder and Sacral Lateral Positioner Assembly



This Assembly consists of two (2) Rectangular Pads that can be placed at the scapula and sacrum to support the patient in the lateral position.

Two (2) Aluminum Side Rail Sockets and two (2) Universal Side Rail Adapters are required to mount the Lateral Positioners to the Orthopedic Trauma Top.

REF 5394 Aluminum Side Rail Socket



The Aluminum Side Rail Socket attaches to the Universal Side Rail Adapter to facilitate attachment of additional accessories, including the Lateral Positioners.

REF 10706 Orange Aid® Universal Traction Boot Liner



This reusable Traction Boot liner may be used with all sizes of Traction Boots available with this table. The Liner helps cushion the patient's foot when inside the Traction Boot.

REF 10704 Orange Aid® Universal Perineal Post Pad



This reusable 11" x 9" x 3/8" pad helps prevent potential pressure complications when used with perineal posts available for this table.

8.2 Use and Installation

8.2.1 Pivoting Arm Board

To install the Pivoting Arm Board:

1. Install a Universal Side Rail Adapter as described in Section 3.6.
2. Hold the locking lever of the Pivoting Arm Board at the base of the bracket in the open position and over the edge of the Universal Side Rail Adapter (Figure 64).



Figure 64: Locking Lever in Open Position

3. Lower the Arm Board into place and release the locking lever.
4. To pivot, release the latch by pulling the lever at the distal end of the board, and pivot the Arm Board to the desired position (Figure 65).

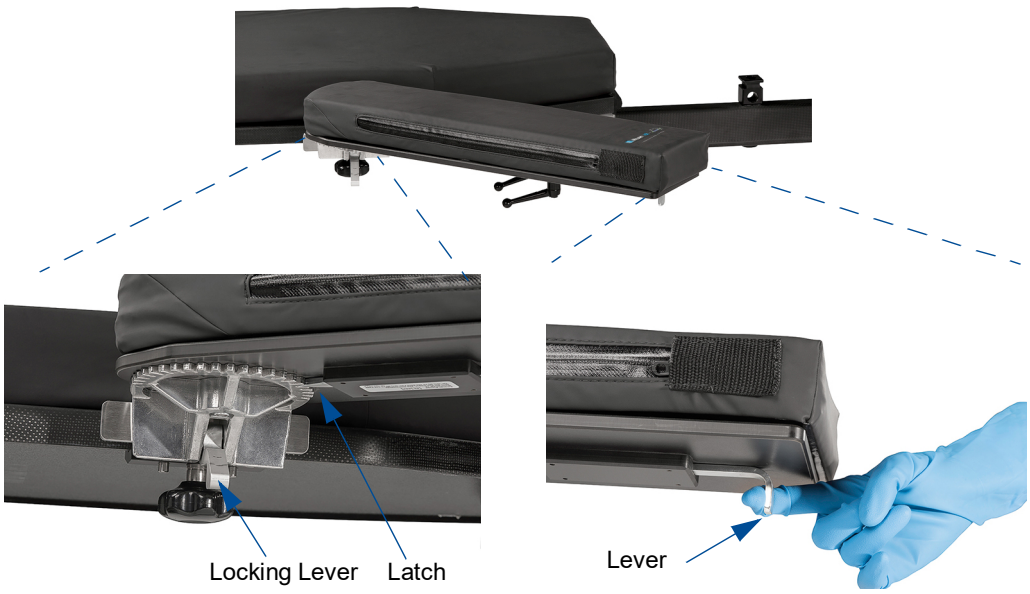


Figure 65: Pivoting Arm Board Mounted with Universal Side Rail Adapter

8.2.2 Cross-Arm Support

To install the Cross-Arm Support:

1. Install a Universal Side Rail Adapter as discussed in Section 3.6.
2. Mount a Clark Socket on the Universal Side Rail Adapter.
3. Place a Cross Arm Support Upright in the Clark Socket. Turn the Clark Socket handle clockwise to secure the Cross Arm Support (Figure 66).



Figure 66: Cross Arm Support Mounted with the Universal Side Rail Adapter and Clark Socket

4. Position the Cross Arm Support over, but not in contact with, the patient's chest.
5. Pad and secure the patient's arm to the Cross Arm Support.

8.2.3 Lateral Positioners

To install the Shoulder and Sacral Lateral Positioners:

1. Install a Universal Side Rail Adapter as discussed in Figure 3.6.
2. Mount an Aluminum Side Rail Socket on the Universal Side Rail Adapter.
3. Place the Lateral Positioner Upright in the Aluminum Side Rail Socket. Turn the Aluminum Side Rail Socket handle clockwise to secure the Lateral Positioner (Figure 67).



Figure 67: Lateral Positioner Mounted with Universal Side Rail Adapter and Aluminum Side Rail Socket

8.3 Orthopedic Equipment Cart

The optional Orthopedic Equipment Cart may be used to store the Orthopedic Trauma Top components and accessories when not in use. The Equipment Cart Cover provided with the Cart serves as a dust cover and should be used while products are in storage.



Figure 68: Equipment Cart, Front and Back (Empty)



Figure 69: Equipment Cart, Front and Back (Loaded)

9 Cleaning, Storage, and Maintenance

9.1 Cleaning and Disinfecting

Refer to the manual for the Advanced Control Base for recommended cleaning instructions.

NOTE: *Clean and disinfect the table top after every use.*

9.1.1 Table Top

The exterior surface of the Orthopedic Trauma Top should be regularly wiped clean with a mild detergent solution using a damp cloth that has been wrung out of liquid, and then wiped dry with a lint-free cloth.

Care should be taken to avoid exposing the table to excessive moisture. Flooding, fogging, or steam cleaning is not recommended.

CAUTION: Never pour any liquid directly onto the Orthopedic Trauma Top. Never subject the Orthopedic Trauma Top to an equipment washing machine.

Blood or other fluids, etc., if allowed to remain on the table top for a long period of time, will require special cleaning to remove.

NOTE: *Use of iodophors will cause staining.*

To remove staining and discoloration of plated or stainless steel surfaces, clean with a commercial cleaning compound labeled for stainless steel and then buff the surface by hand.

To disinfect the exterior surface, use a quaternary ammonium disinfectant compound according to the manufacturer's directions for use. Wipe dry with a soft lint-free cloth.

NOTE: *Failure to thoroughly dry surface after cleaning and disinfecting may result in rusting of the surface.*

9.1.2 Mizuho OSI Tempur-Pedic® Medical Pads

NOTE: *The Mizuho OSI Tempur-Pedic® Medical Pads should always be stored in a flat position. The pads can become stiff in cold temperatures and can crack and break if in a rolled position. It is important that you allow the pads to warm to room temperature before attempting to use or handle.*

When handling a Tempur-Pedic® Medical Pad, always grasp by the entire thickness of the pad.

DO NOT lift, slide or carry Mizuho OSI Tempur-Pedic® Medical Pads by grabbing the fabric cover. The cover may tear or rip.

The pads are intended to be cleaned in place. They do not need to be rotated or removed.

Clean with standard hospital disinfectants labeled for use on table pads. Always dilute and rinse per manufacturer's label instructions. Wipe dry with a lint-free cloth. DO NOT soak or autoclave the pads.

NOTE: *The use of bleach or highly concentrated chemicals may discolor the cover and will void the warranty on the pad.*

When cleaning the bottom of the pad or the table top, simply lift one end of the pad, and fold it over onto the other end. Clean the pad or the table top, wipe dry with a lint-free cloth, then reposition the pad to lie flat on the table top.

9.2 Maintenance

Cleaning the table surfaces and table pad after each use will assure many years of trouble-free service. All components are lubricated for life at the factory and no other lubrication for the table is required.

Preventative Maintenance:

Contact Mizuho OSI Service for a complete preventative maintenance checklist.

For detailed repair information or to order replacement parts, call, or contact via the web, Mizuho OSI Service:

1-800-777-4674, Option 2 (for calls within the USA)

+1-510-429-1500, Option 2 (for calls outside the USA)

+1-510-429-8324 (Fax, Domestic and International)

service@mizuhosi.com

www.mizuhosi.com

Mizuho OSI Service is available from 5 AM to 5 PM Pacific Time, Monday through Friday. Please leave a message at extension 2 after normal business hours.

10 Technical Support

10.1 Contact for Parts and Service

For detailed repair information or to order replacement parts, call Mizuho OSI Service at **1-800-777-4674** for calls within the USA or **+1-510-429-1500** for calls outside the USA. At the prompt, select Option 2.

A Service line is available from 5 AM to 5 PM Pacific Time, Monday through Friday. Please leave a message after business hours.

Please state slowly your name, phone number, your facility name and city, affected equipment model number, and serial number.

An e-mail message may be left anytime at **service@mizuhosi.com** or through the web site: **www.mizuhosi.com**.

10.2 Order Replacement Parts

If unable to identify a part, please telephone, fax, or e-mail Mizuho OSI Service before placing an order. Once the part number is obtained, follow the instructions below to order the replacement part.

If part is known, please telephone, fax, or e-mail the part number and description to Mizuho OSI Service for price and availability.

To place a Replacement Parts (RP), order please telephone, fax, or e-mail Mizuho OSI Service with the part number, description, price, customer number and method of shipment with the purchase order. Indicate that the order is for Replacement Parts (RP).

10.3 Return Damaged Parts

Identify the part or part number to be returned.

Telephone, fax, or e-mail Mizuho OSI Service with the part number and description of the part for return to obtain a Return Goods Authorization (RGA) number.

Complete the Certificate of Decontamination provided by Mizuho OSI Service.

Return the part with RGA number clearly marked on the outside of the package and include the Certificate of Decontamination with the shipment.

10.4 Send a Part for Repair

If unable to identify a part, please telephone, fax, or e-mail Mizuho OSI Service for assistance.

If the part number is known, please telephone, fax, or e-mail Mizuho OSI Service with the part number and description of problem to obtain a Repair Authorization (RA) number.

Clean/disinfect parts prior to shipping and complete the Certificate of Decontamination provided by Mizuho OSI Service.

Ship the part with the RA number clearly marked on the outside of the package, and include the Certificate of Decontamination with the shipment.

The part will be evaluated and the customer will be contacted with the cost of repair, if not covered under table warranty.

After customer approval of repair cost, the part will be repaired and returned to the customer.

10.5 Warranty

Mizuho OSI products come with a one (1) year warranty against manufacturer defect. All expenses for parts and labor for product service calls are covered free of charge for the warranty period except those products that are misused, altered, or damaged. All Tempur-Pedic® Medical Pads come with a two (2) year warranty against manufacturer defect. Defective merchandise will be credited or replaced.