ROTEC

# VersaTech Med-Surg XL

Ultra-Low Bed with VersaDrive assist system option design to accommodate a 39” mattress to offer better comfort to a wider range of patients.







Model V700 ULB / ULB+

# Maintenance manual

**Do not use the bed and its accessories without first reading this entire manual.**
**Illustrations are for guidance only.**


**Technical assistance and parts**

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**Patents:**

This product is protected under US and International Patents & Patents Pending

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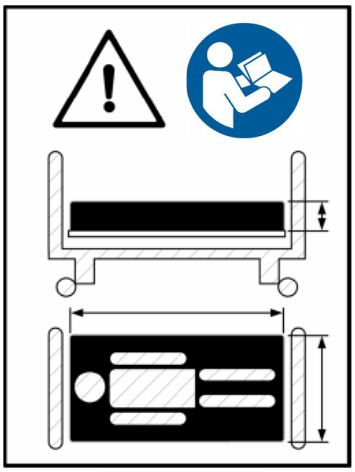
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# 1. GENERAL

## 1.1. Symbols

**On the device labels**



Symbol indicating that the mattress dimensions are very important to respect and to consult the user manual to know the characteristics.



Symbol illustrating the patient's maximum weight allowed on the device.



Symbol illustrating the maximum permissible weight on the apparatus including the patient, mattress and all accessories (IV pole, trapeze, traction frame, drainage bag, etc.).



Symbol indicating to consult the user manual.



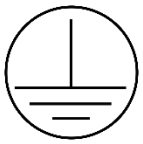

Symbol illustrating protection against liquid splashes



Symbol indicating a type B electrical protection.




Symbol illustrating the CSA (Canadian Standards Association) Seal of Approval.



Symbol indicating this is a Class I grounded electrical device.



Symbol indicating that the electrical power must be alternating current.



Symbol meaning that the manufacturer or importer affirms the product's conformity with European health, safety, and environmental protection standards.




Symbol indicating a European medical device.




Symbol indicating a Class I medical device (low risk).



Symbol indicating that the item should not be disposed of in the garbage and must be recycled properly.



Symbol for potential equalization connector.

*For symbols of the keypads and buttons, refer to Section 3

**In this manual**



**Warning:**
Used when special attention must be given to the information to prevent injury and/or potential failure.

**Abbreviations**
**CPR:** Cardiopulmonary Resuscitation
**SWL:** Safe Working Load

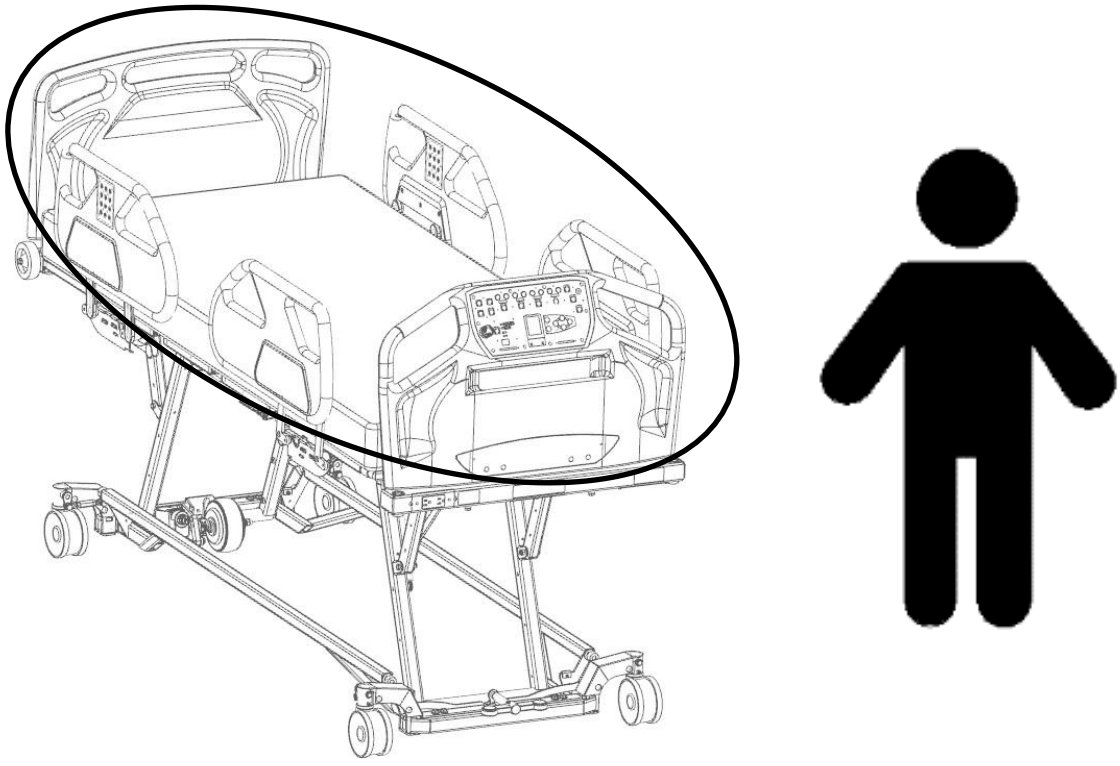
## 1.2 Intended use

This manual has been designed to assist you in using the VersaTech 700 ULB+ bed from Rotec. Make sure to read this document before using the device to ensure safe and risk-free use.

This manual is an integral part of the device and must always accompany the unit during sale or transfer. It should always be accessible to medical and maintenance personnel.

**Domain:** This device should never be used in the presence of flammable anesthetic gas mixed with air or oxygen or nitrous oxide. This device is designed for use in medical care environments such as hospitals or other medical facilities requiring medical surveillance and, if necessary, control measures. It is intended for medical procedures, including treatment, diagnosis, supervision, and maintaining or improving a patient's condition. This includes intensive care, ambulatory care, and both short- and long-term medical care. It is not designed for home use. This device must never be used in the presence of flammable anesthetic gas mixed with air, oxygen, or nitrous oxide.

**Applied parts:** The parts of the device expected to be in contact with the patient and the operator include the headboard, footboard, side rails, interface, platform, and any accessories designed for use with the device.



**Patient:** Patients are intended to use a subset of the device's functions via internal controls. The device is designed for adult patients over **4 ft (1.22 m) in height** and weighing between **70 lb (32 kg) and 600 lb (272 kg)**. This bed is not designed for patients with behavioral or mental health conditions.

**Operator:** The operator of this device is expected to be a healthcare professional, such as a nurse, a doctor, or caregiver. The operator must be capable of understanding and applying the instructions provided in this manual. Additionally, it is expected that the patient can access some functions while in the bed.

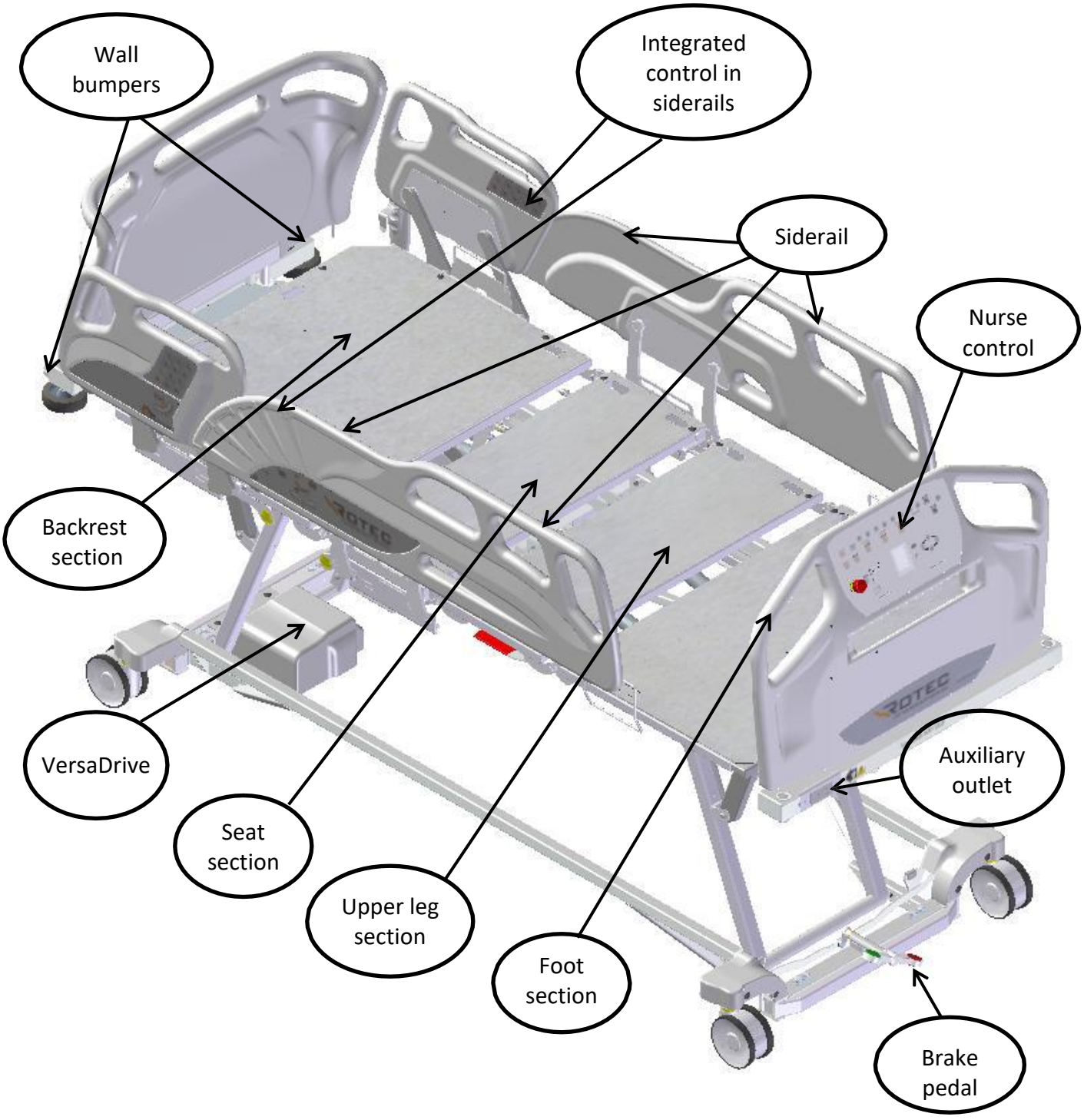
**Life cycle:** This device is designed for a lifespan of 10 years under normal operating conditions and usage (refer to the specifications and conditions of use in the following sections).

Rotec cannot be held liable for any damage or injury resulting from negligence or improper use of its products. Additionally, all illustrations provided in this document are for reference purposes only.

## ⚠ WARNINGS ABOUT THE INTENDED USE

- This device is not intended for pediatric use. Using it in such cases presents a serious **RISK OF ENTRAPMENT, WHICH COULD LEAD TO DEATH.**
- It is essential to read this manual thoroughly and ensure proper staff training before using the bed and its accessories to prevent **ANY INJURY** to both the user and the staff.

## 1.3 Illustration of the device



## 1.4 Characteristics

- Adjustable height of the bed
- Inclinable bed frame (Trendelenburg)
- Lenght-adjustable base
- Reclining backrest section
- Reclining thigh section
- 2-position manual tilt foot section
- Mobile device on 12.7cm (5") diameter antistatic wheels
- Synchronize brake system with directional function on wheel
- Traction frame receptacle
- IV pole receptacle
- Drainage bag receptacle
- Restraint strap receptacle
- Trapeze bar receptacle
- Power cable holder
- Composite head and foot boards, removable without any tools
- Composite half-rail with integrated corner indicators
- Back up battery for temporary autonomy
- Integrated foot mattress retainer
- Removable hand control.
- Controls in footboard and siderails
- Electrical CPR function
- Mechanical CPR Function
- Auto-contour feature
- Cardiac chair position
- Under bed light
- Nurse call
- Integrated scale and bed exit detection (three zone egress detection)

## 1.5 Optional features

- Motorized VersaDrive wheel
- Additional hand control
- Transportation trolley
- Auxiliary power outlet

*Optional features may change the dimensions.*

*The dimensions specified herein do not consider manufacturing tolerances.*

## 1.6 Intended accessories

- Mattress, 9 kg (20 lb)
- Trapeze bar, 11 kg (23 lb)
- IV Pole, 0.5 kg (1.1 lb)
- Drainage bag*
- Traction frame*
- Restraint strap *

** product not available by the device manufacturer.*

## 1.7 Mechanical specifications

| | |
|---|---|
| **Maximum load capacity** | |
| Patient: | 273 kg (600 lb) |
| Trapeze: | 77 kg (170 lb) |
| IV pole support: | 10 kg (22 lb) |
| | 5 kg per hook |
| Total (SWL): | 318 kg (700 lb) |
| Device weight without accessories: | 247.7 kg (545 lb) |
| **Overall dimension** | |
| Width: | *110 cm (43 3/8")* |
| Length: | *237 cm / 247 cm / 257 cm (93 1/8" / 97 1/8" / 101 1/8")* |
| **Dimension of the mattress support platform** | |
| Minimum height: | *21.6 cm (8 1/2")* |
| Maximum height: | *81.3 cm (32")* |
| Width: | *96.5 cm (38")* |
| Length: | *203 cm / 213 cm / 223 cm (80" / 84" / 88")* |
| **Maximum inclination angle** | |
| Back section: | *70°* |
| Thighs section: | *30°* |
| Foot section: | *16°* |
| Trendelenburg: | *±15°* |
| **Recommended mattress** | |
| Length: | *203 cm / 213 cm / 223 cm (80" / 84" / 88")* |
| Thickness: | *12.7 to 15.2 cm (5" to 6")* |
| Width: | *99 cm (39")* |

## 1.8 Certifications

- CAN/CSA-C22.2 No. 60601-1:14 (R2018), AMD 2:2022
- CAN/CSA-C22.2 No. 60601-1-6:11 (R2016), AMD 1:2015, AMD 2:2021
- CAN/CSA-C22.2 No.60601-1-9:15 - First Edition - Up to and including Errata: January 2017, AMD 2:2021
- CAN/CSA-C22.2 No. 60601-2-52:11, AMD1:2017, Excluding Clauses 17 & 11.7
- ANSI/AAMI ES60601-1:2005/(R2012) + A1:2012, C1:2009/(R2012) + A2:2010/(R2012)
- ANSI/AAMI ES60601-1:2005 / A2:2021
- IEC 60601-1:2005 + A1:2012 + A2:2020
- IEC 60601-1-6:2006 + A1: 2013 + A2:2020
- IEC 60601-2-52:2009 + A1:2015, Excluding Clause 17 & 11.7
- IEC 60601-1-2:2014 + A1:2020
- IEC 60601-1-9:2007 + A1:2013 + A2:2020

## 1.9 Electrical specifications

| | |
|---|---|
| Model | VersaTech 700 ULB |
| Insulation: | Class II |
| Rated voltage: | 120/220/230/240 vac |
| Cycles: | 50/60 Hz |
| Maximum current: | 120V model<br>Without VersaDrive and auxiliary outlet: 4.5A |
| | 220/230/240V model<br>Without VersaDrive and auxiliary outlet: 4.5A |

Note that ULB+ model is a Class I device and must be plugged in a grounded outlet. Connecting the device to a supply network that has no grounding terminal increases **RISK OF ELECTRICAL SHOCK.**

## Electrical specifications suite

| | |
|---|---|
| Model: | VersaTech 700 ULB+ |
| Isolation: | Class I |
| Power: | 120/220/230/240 VAC |
| Frequency: | 50/60 Hz |
| Current Rating: | 120V Model<br>With auxiliary outlet: 8.75A<br>With VersaDrive: 4.65A<br>With VersaDrive & auxiliary outlet: 9.65A<br>220/230/240V Model<br>With Outlet: 6.25A<br>With VersaDrive: 4.65A<br>With VersaDrive & auxiliary outlet: 7.15A |
| Protection: | IPX4 |
| Duty cycle: | 10% maximum<br>(2 min. / 18 min.) |
| Maximum acoustic sound pressure: | < 59.5 dBa |
| Scale accuracy (when installed): | ±1 kg (2 lb).<br>Min: 32 Kg (70 lb) e: 0.5 Kg<br>CE Class III Scale |

## 1.10 Storage and handling

| | |
|---|---|
| **Operating environment** | |
| Temperature | 5 to 40 ˚C |
| Relative humidity | 15% to 95%<br>(Non-condensing) |
| Atmospheric pressure | 70kpa à 106kpa |
| **Storage environment** | |
| Temperature | - 40 to 70 ˚C |
| Relative humidity | 10% to 100%<br>(Non-condensing) |
| Atmospheric pressure | 70kpa to 106kpa |

## ⚠ WARNINGS ABOUT FEATURES AND SPECIFICATIONS

- Ensure that the bed height allows for safe and easy entry and exit from the device. Otherwise, there is a **RISK OF FALLING,** which could result in **SERIOUS INJURY**.
- Before fully lowering the bed, make sure no part of the patient's body extends beyond or is underneath the bed to prevent **SERIOUS INJURY AND/OR POTENTIAL DAMAGE** to the device.

## 1.11 Electromagnetic Compatibility (EMC)

This hospital bed complies with the following electromagnetic compatibility standards.

| Test Name - Standards | Compliance Level | Results |
|---|---|---|
| Conducted Emissions - CISPR 11 (2024) | Group 1 - class A - 150kHz-30MHz | Pass |
| Radiated Emissions (Prescan at 3m) - CISPR 11 (2024) | Group 1 - class A - 30MHz-1GHz | Pass |
| Radiated Emissions (10m) - CISPR 11 (2024) | Group 1 - class A - 30MHz-1GHz | Pass |
| Harmonic Current Emission Limits - IEC 61000-3-2 (2018) A1 (2020) | Class A | Pass |
| Voltage Fluctuations and Flicker Limitations - IEC 61000-3-3 (2013) A1 (2017) A2 (2021) | Observation period for $P_{st}$: 10 min<br><br>Observation period for $P_{lt}$: 120 min | Pass |
| Electrostatic Discharge Immunity - IEC 61000-4-2 (2025) | Contact: ±8kV<br>Air: ±2kV, ±4kV, ±8kV, ±15kV | Pass |
| Radiated Electromagnetic Field Immunity - IEC 61000-4-3 (2020) | 80MHz-1000MHz: 3V/m<br>1GHz-2.7GHz: 3V/m | Pass |
| | Additional Tests in order to cover IEC 60601-1-2 requirements for proximity fields from RF wireless communications equipment:<br>385MHz: 27V/m<br>710MHz,745MHz, 780MHz: 9V/m<br>450MHz, 810MHz, 870MHz, 930MHz: 28V/m<br>1.72GHz, 1.845GHz, 1.97GHz, 2.45GHz: 28V/m<br>5.24GHz, 5.5GHz, 5.785GHz: 9V/m | Pass |
| Electrical Fast Transient Immunity - IEC 61000-4-4 (2012) | Power: ±2kV / 100kHz<br>I/O Ports: ±1kV / 100kHz<br>Communication Ports: N/A | Pass |
| Surge Immunity - IEC 61000-4-5 (2014) A1 (2017) | Power: ±2kV L-PE / ±1kV L-L<br>I/O Ports: N/A<br>Communication Ports: N/A | Pass |
| Immunity to Conducted Disturbances, Induced by Radio-Frequency Fields - IEC 61000-4-6 (2023) | Power: 3V<br>I/O Ports: 3V<br>Communication Ports: 3V | Pass |
| Power Frequency Magnetic Field Immunity - IEC 61000-4-8 (2009)<br><br>Voltage Dips, Short Interruptions and Voltage Variation Immunity on AC Input - IEC 61000-4-11 (2020) | Continuous Field: 30A/m / 50Hz & 60Hz<br><br>Voltage dips:<br>0%Un during half cycle<br>0%Un during 1 cycle<br>70%Un during 25 cycles (at 50Hz)<br>70%Un during 30 cycles (at 60Hz)<br><br>Short interruptions:<br>0%Un during 250 cycles(at 50Hz)<br>0%Un during 300 cycles (at 60Hz) | Pass |
| Proximity Magnetic Fields Immunity - IEC 61000-4-39 (2017) | 30kHz: 8A/m (CW)<br>134.2kHz: 65A/m (PM 2.1kHz)<br>13.56MHz: 7.5A/m (PM 50kHz) | Pass |

### ⚠ WARNINGS ON ELECTROMAGNETIC COMPATIBILITY

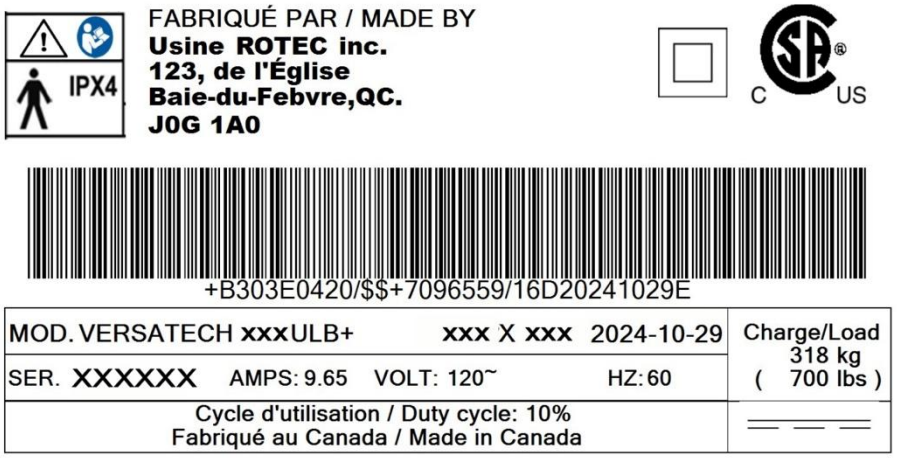
- Portable RF communication equipment, including peripherals such as antenna cables and external antennas, **must be kept at least 12 inches (30 cm) away** from any part of the bed, including its cables.
- Avoid stacking or placing equipment adjacent to other devices to prevent improper operation. If stacking or adjacency is necessary, carefully monitor the equipment to ensure proper functionality.
- The use of accessories, transducers, or cables other than those specified or provided by the manufacturer **may increase electromagnetic emissions, reduce electromagnetic immunity**, and result in improper operation.

## 1.12 Bed Labeling

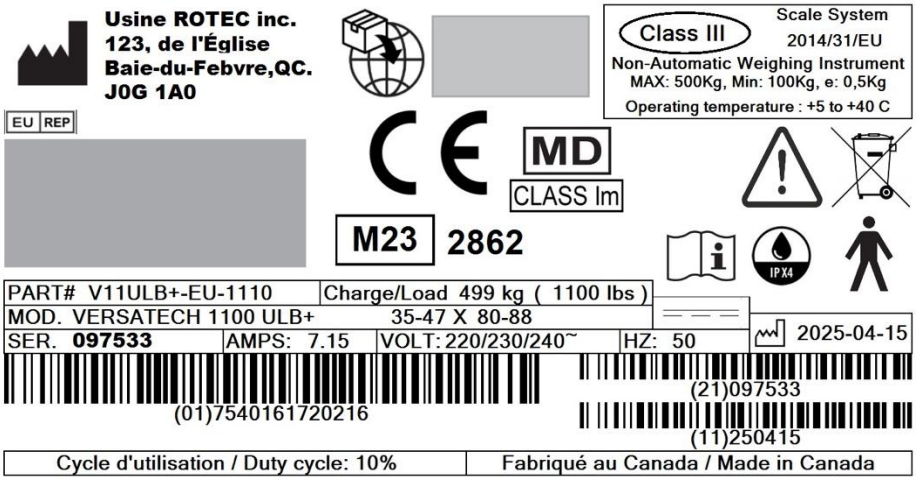
### Bed Identification Label with UDI

On the bed identification label information like address of the manufacturer, manufacturing date, UDI code, Symbols, product model, product serial number, electrical specification, foreign country representative, and other relevant information can be found on it.

### Example of label with HIBCC UDI code:

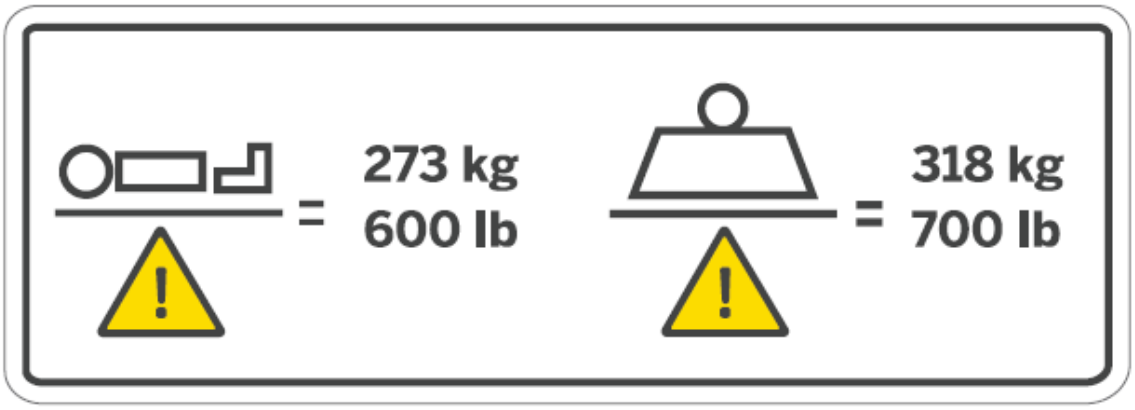



### Example of label with GS1 UDI code:



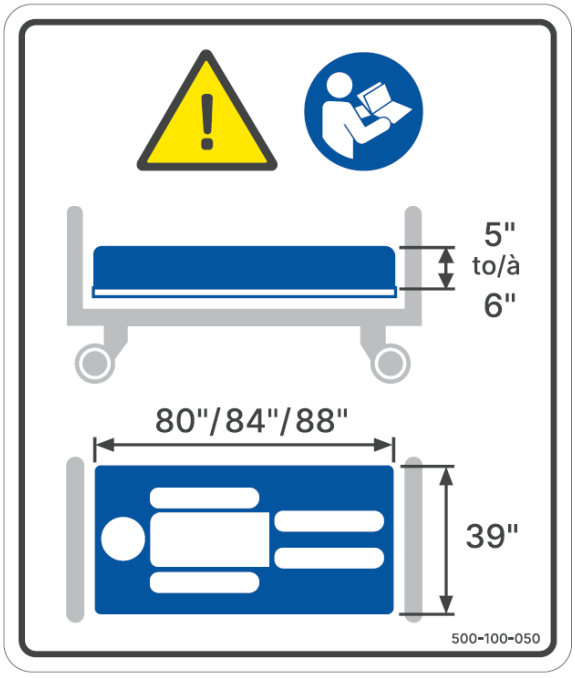
**Bed load capacity label:**

V700 ULB / ULB+




**Recommended mattress size label:**

V700 ULB / ULB+



# 2. INSTALLATION

## 2.1. Powering the device

The primary voltage of the device can always be safely disconnected by unplugging the unit's power cable from the designated wall socket. Ensure that the power cable remains easily accessible at all times.

Note that this device is Class I and must be plugged into a grounded outlet.

### ⚠ WARNINGS ABOUT POWER TO THE UNIT

- Connecting the device to a power supply network without a grounding terminal increases the **RISK OF ELECTRIC SHOCK.**
- If a significant amount of liquid is accidentally spilled on electronic components, cables, or motors, their functionality may be compromised. In such cases, immediately disconnect the bed, remove the user from it, and have the bed cleaned and inspected by qualified technicians. The bed must not be returned to service until it has been properly cleaned and inspected. Failure to follow these instructions may compromise the device's integrity and result in **SERIOUS INJURY**.
- Ensure that the power cable remains in a safe location while the device is in use to prevent damage that could lead to **SERIOUS ELECTROCUTION INJURY**.

## 2.2. Verification before putting into service

To ensure no damage occurred during the transport of the bed, the following verifications must be performed:

- (If applicable) Check that the device's packaging is intact and has no visible damage.
- (If applicable) Unpack the device from its packaging.
- Conduct a visual inspection to confirm that the device appears to be in good condition.
- Connect the device's power cable.
- Keep the device connected for at least 48 consecutive hours.
- Verify that all functions operate according to the instructions provided in this manual (see Section 3).
- Unplug the power cable and operate the actuators to test the battery.

**Note Important:** The CPR function verification must be performed with a mattress and an appropriately positioned person, as it is calibrated for the intended patient weight.

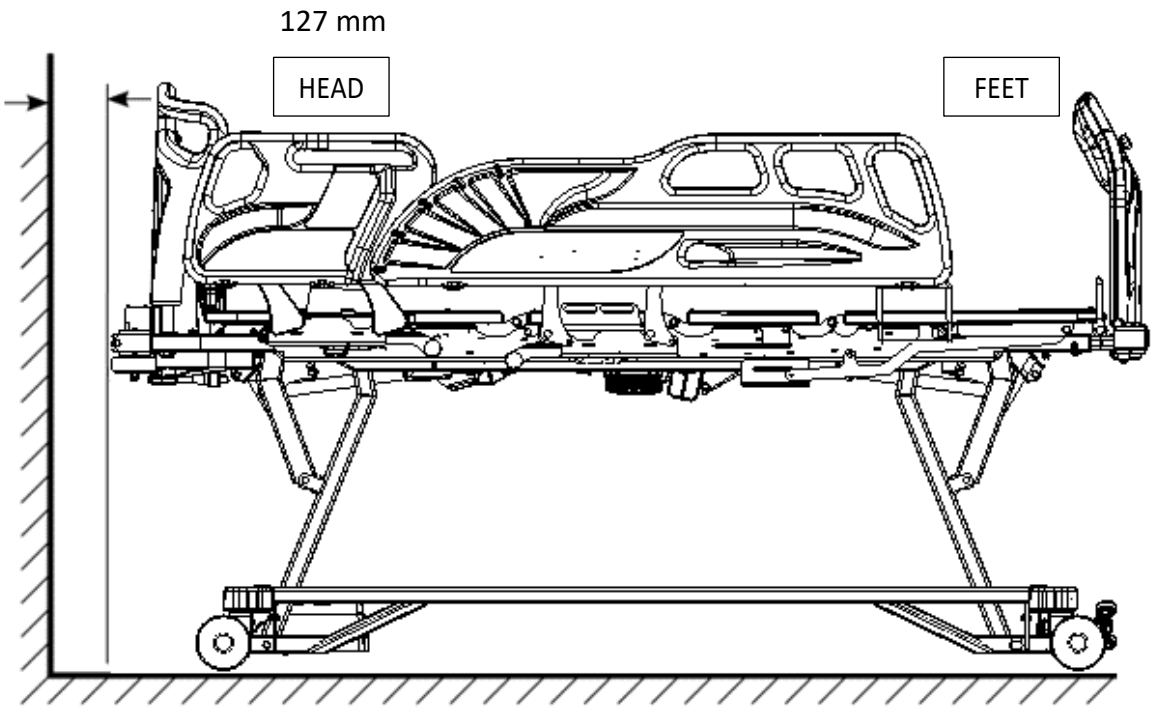
If any damage or malfunction is detected, immediately contact the Technical Services Department of Rotec without hesitation.

### ⚠ WARNINGS ABOUT VERIFICATION

- Ensure that the power cables of nearby electrical devices do not become entangled in the moving parts of the device. Failure to do so could result in **SERIOUS ELECTROCUTION INJURIES**.

## 2.3. Positioning in the operating environment

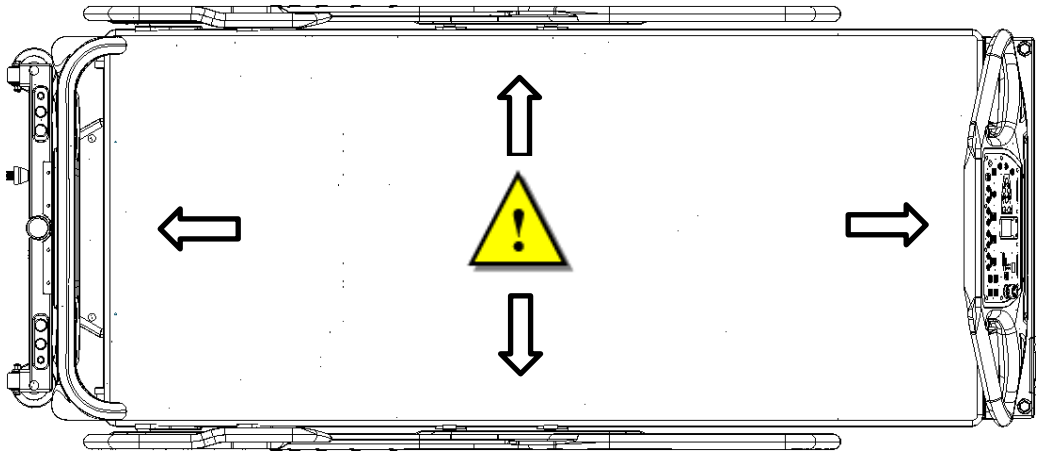
To install this bed model, place it horizontally at a minimum distance of 127 mm (5 inches) from the wall. Similarly, ensure that no objects obstruct the foot section before engaging the brakes (see Section 3.2).




This allows the bed to be used without concern for contact with the wall.

## 2.4. Installation/Replacement of the mattress

Use a mattress that meets the recommended specifications. Ensure that the platform configuration matches the mattress (see Mechanical Specifications).



Place the mattress on the device and insert it between the platform's rail guards. Note that the mattress must be compressed to fit properly. If not, the platform adjustment is incorrect for the mattress dimensions.

**⚠ WARNINGS ABOUT FEATURES AND SPECIFICATIONS**

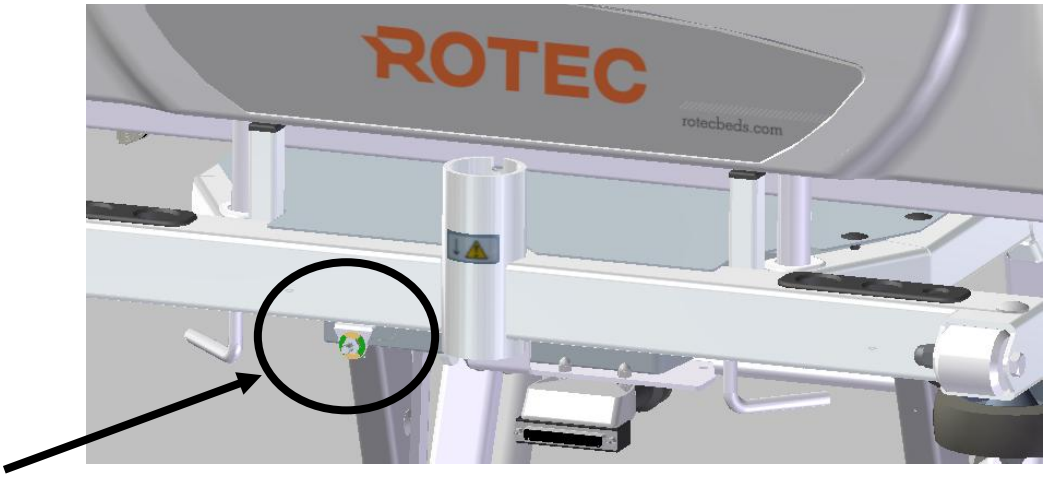
- Use a mattress of the correct size, properly adapted to the platform dimensions, to prevent **RISKS OF ENTRAPMENT** between the side rails and the mattress, which could result in **DEATH**.

## 2.5. Potential Equalization

This bed is equipped with a connector for potential equalization between the bed and other medical equipment that may be connected to the patient, in order to protect the patient from possible static discharge.

Connect the medical equipment and the bed via their equipotential terminals before connecting the medical device to the patient.

Before moving the bed, make sure to disconnect the medical equipment from the patient and disconnect the bed's equipotential connector.






# 3. OPERATING INSTRUCTIONS

## 3.1. Electrical functions of the bed

| Symbols | Descriptions |
|---|---|
|  | **Arrow pointing upwards:** Allow upwards adjustment of the various functions of the equipment. |
|  | **Arrow pointing downwards:** Allow downwards adjustment of the various functions of the equipment. |
|  | **Backrest functions:** Allow tilting adjustment of the backrest section upwards or downwards.<br>Press on the arrow pointing upwards or downwards located next to the symbols to switch on the motor. Release the control to stop all movement. |
|  | **Thigh functions:** Allow tilting adjustment of the thigh section and raising or lowering the foot section.<br>Press on the arrow pointing upwards or downwards located next to the symbols to switch on the motor. Release the control to stop all movement. |
|  | **Auto-contour functions:** Allow tilting the thigh section and the backrest section and adjusting the height of the foot section upwards or downwards at the same time.<br>Press on the arrow pointing upwards or downwards located next to the symbols to switch on the motor. Release the control to stop all movement. |
|  | **Bed height functions:** Allow the height adjustment upwards or downwards of the bed.<br>Press on the arrow pointing upwards or downwards located next to the symbols to switch on the motor. Release the control to stop all movement.<br>Note: The buttons situated on the inside of siderails and on the remote control have a limited range on lowering the bed for safety reasons. To lower the bed to the lowest height, use the controls on the foot panel. |
|  | **Trendelenburg functions:** Allow tilting the bed so the foot section is lower than the head section and conversely.<br>Press on the arrow pointing upwards or downwards located next to the symbols to switch on the motor. Release the control to stop all movement.<br>Note: the function stops when the bed is back horizontally. |

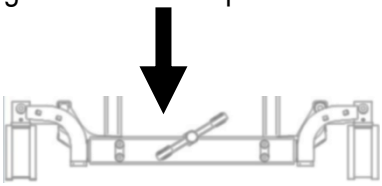
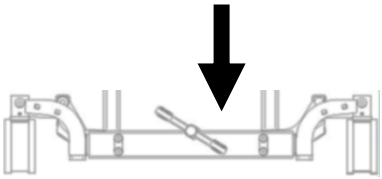
| | |
|---|---|
|  | **Locking functions:** Allow locking a function of the remote control and of the patient control from the nurse control at the foot of the bed.<br>Press this button to lock the function displayed nearby. A red indicator with light up above the lock symbol, indicating that the function is locked.<br>The button to the side locks all moving functions of the equipment including those on the remote control, the patient control on the side of the bed, and the foot control, except for the CPR function. To activate the lock function, hold down the button for 8 seconds. |
|  | **Cardiac chair position:** Allow the bed to be moved in a chair position. This function tilts up the back and thigh sections upwards, adjust the height of the foot upwards and tilt up the bed so the foot section is lower than the head section.<br>Press this button until all functions reach their maximum positions. Release the control to stop all movement.<br>Note: The complete operation may take up to 60 sec. |
|  | **Electric CPR function:** Allow the optimum positioning of the bed to apply the cardiopulmonary resuscitation.<br>Release the control to stop all movement.<br>The **CPR** function should only be used in case of emergency only. Using this function for other purposes could lead to serious injuries to the patient or operator. |
|  | **Light function:** This function turns on the light located underneath the bed. Press this button to turn on or off the light. |
|  | **Nurse call function:** This function sends a signal to the nurse's station. Press this button to send the signal. |
|  | **Plug-in indicator light:** This light indicates that the bed is plugged in a wall power outlet. Allows the battery to recharge. |
|  | **Height Limiting Function (35,5cm / 14 inches Intermediate Stop) – Optional:**<br>When lowering the bed using any control, the bed will automatically stop at an intermediate height of 35,5cm / 14 inches (measured from the floor to the mattress platform). This is a safety feature to prevent unintentional lowering below this level.<br>**To continue lowering the bed below 35,5cm / 14 inches to the minimum height:**<br>▪ Use the external control on the foot end panel or the outer siderail control.<br>▪ After reaching the 35,5cm / 14 inches stop, the system will emit a quick series of three beeps.<br>▪ Release and then re-press the lowering button to confirm the action.<br>▪ The bed will emit intermittent beeps as it continues to descend toward the minimum height.<br>If the lowering button is released for more than 10 seconds, the override process resets. The system will then re-emit the audible warning (three beeps) before allowing descent below 14" again. |

## ⚠ WARNINGS ABOUT THE USE OF ELECTRICAL FUNCTIONS

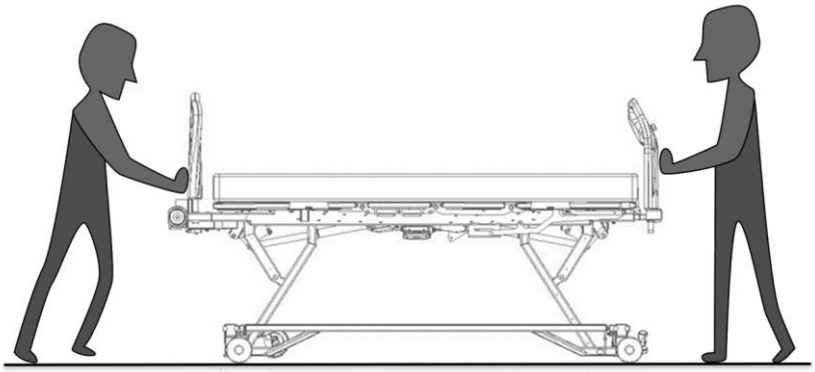
- If the user's physical condition requires it for their safety, disable the bed functions intended for patient use. Position the bed in its lowest setting, ensure the platform is horizontal, and raise the bed rails to enhance safety.
- Ensure that no part of the patient's body extends beyond the mattress and that there are no obstructions under the platform before activating the **CPR** function. **SERIOUS INJURIES** may occur if this function is used improperly.
- The CPR function should be used **ONLY IN CASE OF EMERGENCY.** Using it for any other purpose could result in **SERIOUS INJURIES** to the patient or operator.
- Always position the bed at a low height when the patient is sleeping or unattended to reduce the **RISK OF FALLS,** which could lead to **INJURIES.**
- Do not leave a table or any other object requiring access under the bed when lowering it, as this could cause **SERIOUS MECHANICAL DAMAGE.**
- Before activating any motion controls, ensure that no objects, equipment, or body parts (such as patient or staff limbs, medical equipment, etc.) are obstructing the bed's moving parts, as this could result in **SERIOUS INJURY AND/OR DAMAGE TO EQUIPMENT.**

## 3.2. Moving the device

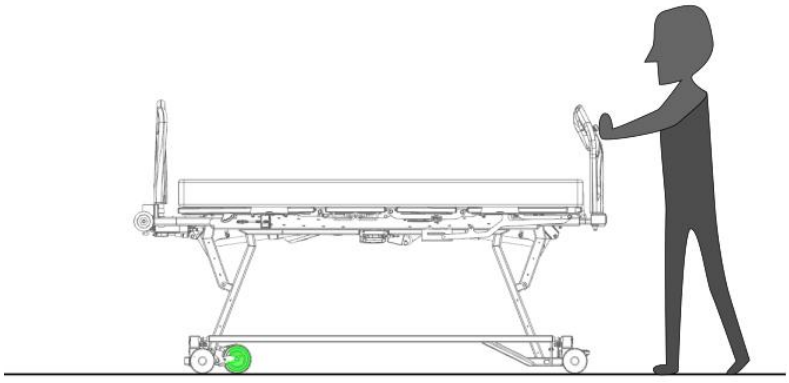
To move the device, it is recommended to raise the bed of at least 150mm (6 inches) from its lowest position to facilitate access to the pedal. To operate the system, place the pedal in one of the following three positions:

| DIRECTIONAL | NEUTRAL | BRAKE |
|---|---|---|
| To engage the directional mode and ensure the left-headed caster rolls in a straight line, press the green side of the pedals. | To engage neutral mode, remove all restrictions and allow the bed to roll freely in all directions by positioning the pedals horizontally. | To engage the brakes and immobilize the bed, press down on the red side of the pedal. |
|  |  |  |
| Press on the **green** side of the pedals. | Place the pedals horizontally. | Press on the **red** side of the pedals. |

When the bed is heavily loaded, it is recommended that two people move it.



However, if using the VersaDrive motorized assistance, it is best to move the bed alone.

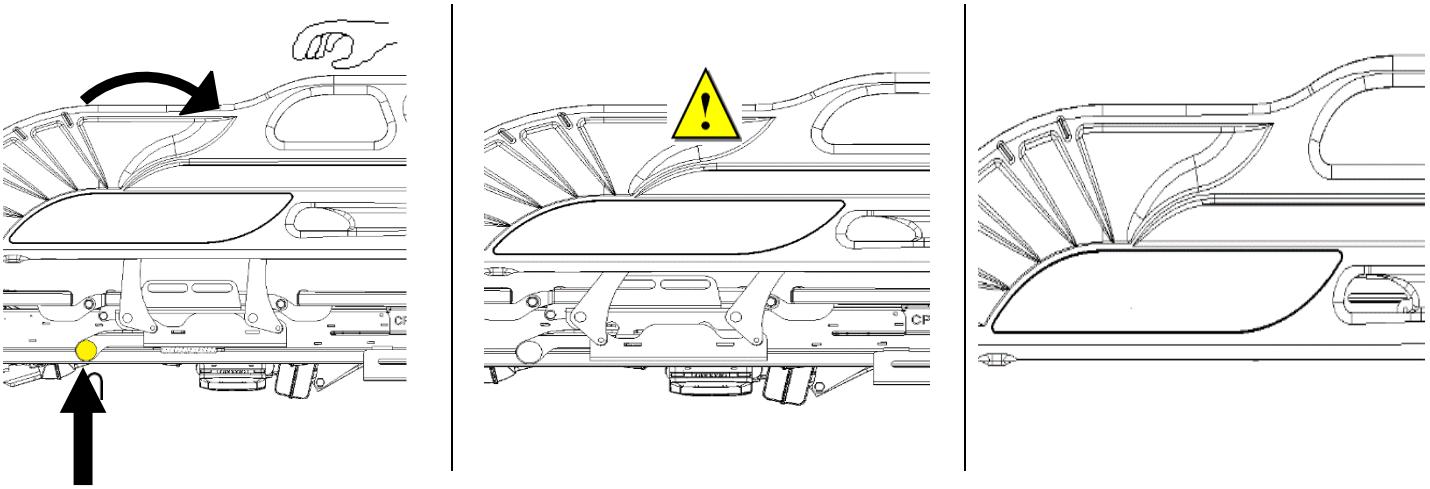


## WARNINGS ABOUT THE SYNCHRONIZED BRAKE SYSTEM

- Always apply the brakes after moving the bed or when a patient is on the bed. Failure to do so could result in **INJURIES** when the patient gets in or out of bed.
- Always verify that the brakes are securely locked after activating them by attempting to move the bed.
- When moving the bed, if you must leave it unattended, always apply the brakes. Leaving the bed with the brakes disengaged and unattended could cause serious injury to the patient or other people near the bed.

## 3.3. Side rails

To lower the side rail, locate the under-frame lever, push it, and rotate the rail downward until it locks in place.



To raise the rail, pull it upward with a rotating motion until it reaches the highest position. Ensure it is securely locked by checking for side-to-side stability.

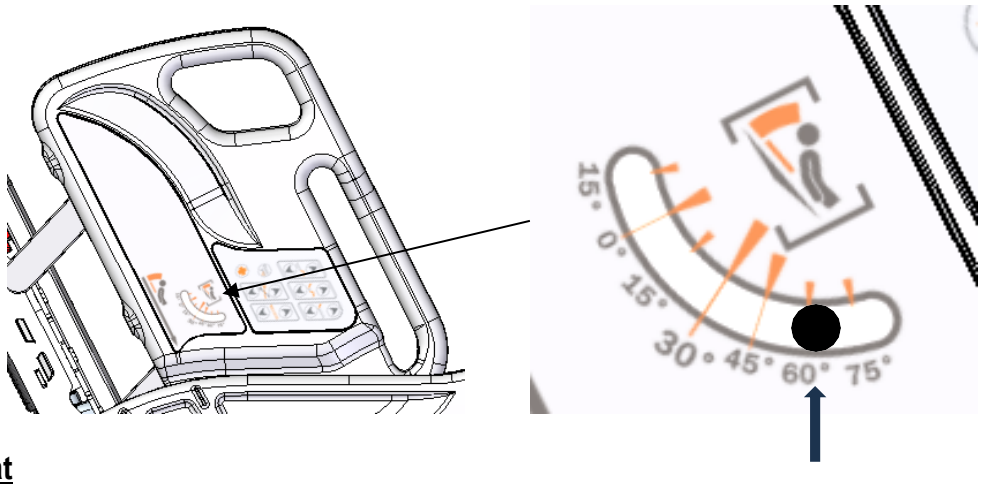
### ⚠ WARNINGS ABOUT SIDERAILS USE

- When raising the side rails to the closed position, always ensure they are fully locked at the highest position by attempting to move them sideways. Failure to do so may result in a **RISK OF FALLING.**
- The side rails are designed only to prevent accidental falls. They must not be used to prevent the patient from leaving the bed, assist the patient in turning over, or act as a restraint. It is the operator’s responsibility to use appropriate restraints in the interest of the patient's safety.
- Ensure that nothing obstructs the movement of the side rails (such as blankets or the patient's limbs) before activating them.
- Unless otherwise medically advised by a professional, always keep the side rails up and locked while the user is sleeping or unsupervised to prevent the **RISK OF FALLING**. Additionally, it is recommended to keep the bed at its lowest height to reduce the **RISK OF INJURY** in case of a fall.
- Ensure that feet are not positioned under the bed when lowering the patient surface to its lowest setting. When the side rails are in the open (unlocked) position, they may come into contact with the ground and slightly lift.

## 3.4. Angle indicators

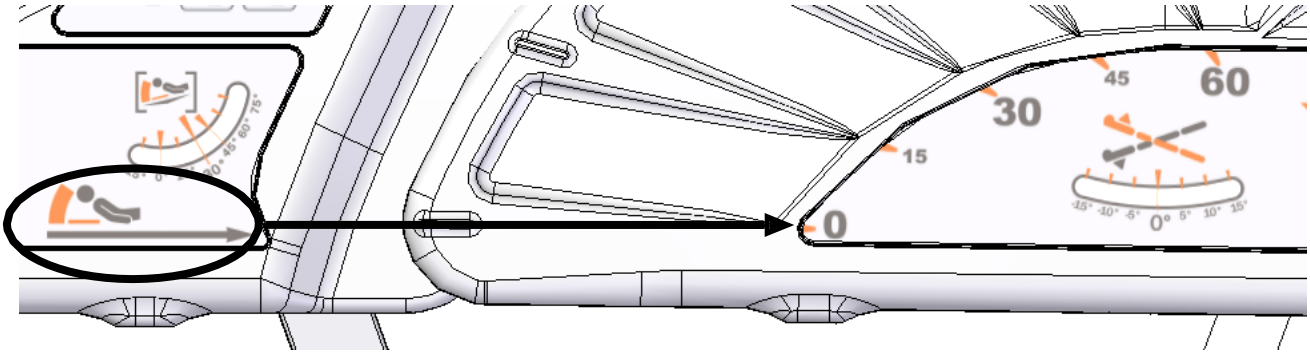
**The backrest in relation to the floor**

To determine the backrest's angle relative to the floor, refer to the angle indicators. The degree measurement is indicated by the ball's position at its lowest point, providing an approximate reading of the backrest's incline.




**Backrest to seat**

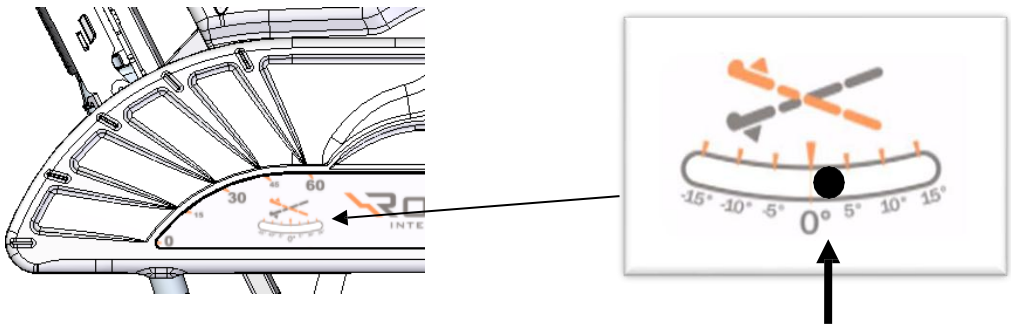
To approximate the backrest angle relative to the seat, observe the arrow on the head side pointing to the degree markings on the foot side.




Ensure the bed rails are closed and locked for accurate alignment of the arrow with the corresponding angle on the foot rail.

**The Trendelenburg**

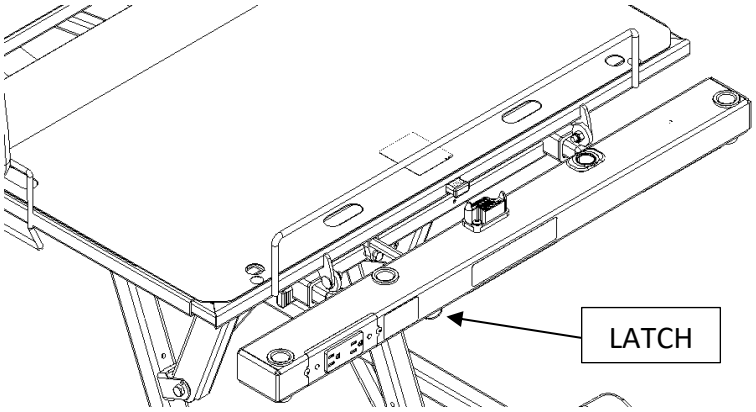
To approximate the bed's angle in Trendelenburg or Reverse Trendelenburg positions, refer to the measurement indicated by the ball at its lowest point. The degree reading shows the bed's angle in these positions.



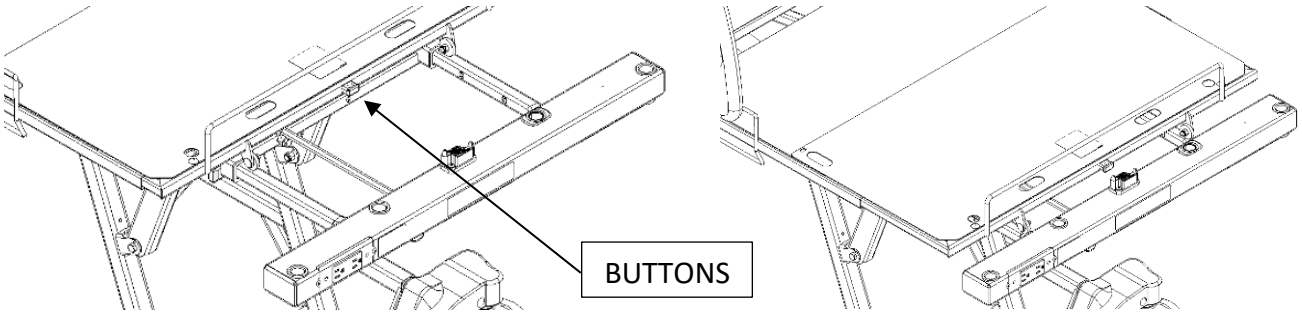
## 3.5. Length extension of the platform

* To facilitate the extension of the Med-Surg XL bed platform, it is recommended to raise the foot section to the maximum and then remove the footboard.

1) Press the latch which is under the foot frame extension.
2) Then, pull on the foot frame extension and release the latch.
3) The extension will lock automatically to the following mattress dimensions: 84 inches and 88 inches.




4) Next, using both hands, press the button in the center of the foot section of the platform and pull on the platform foot extension.
5) You can release the button, and the extension will lock automatically to the same dimensions: 84 inches and 88 inches.
6) Reposition the footboard and lower the foot section to its lowest position.

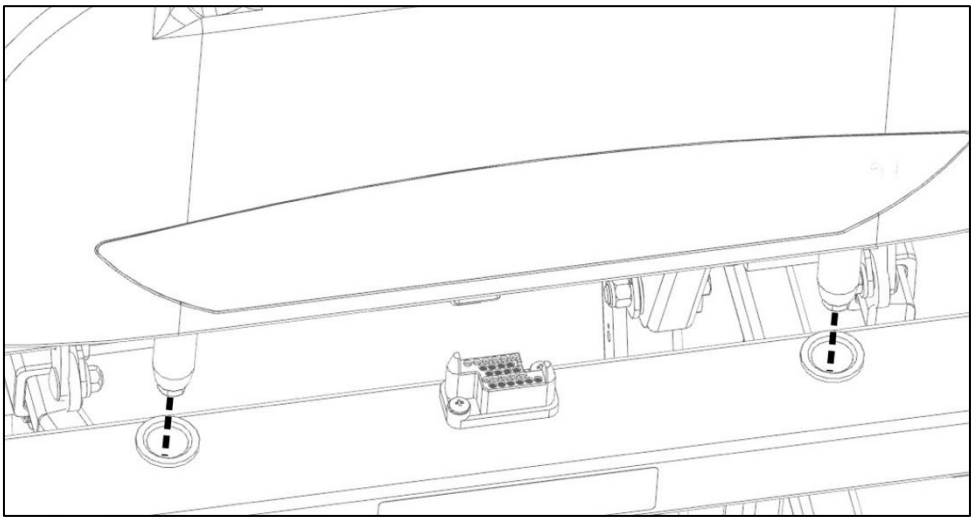


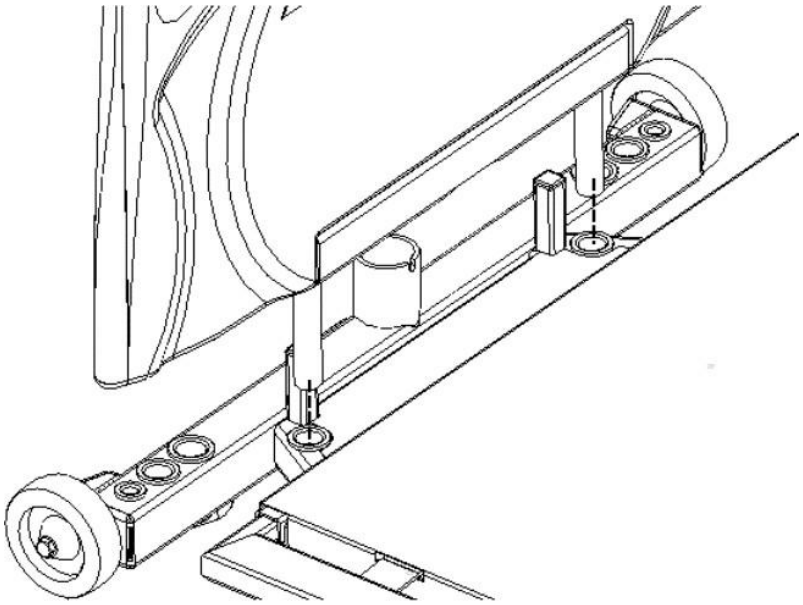

**⚠ WARNING ON LENGTH EXTENSION OF THE PLATFORM**

- Never extend the foot section of the platform without also extending the foot section of the structure, as this may result in **MECHANICAL DAMAGE AND/OR INJURIES**.
- After extending the platform, always ensure that its length matches the size of the mattress being used to prevent **RISKS OF ENTRAPMENT, WHICH COULD LEAD TO DEATH**.

## 3.6. Head and foot boards

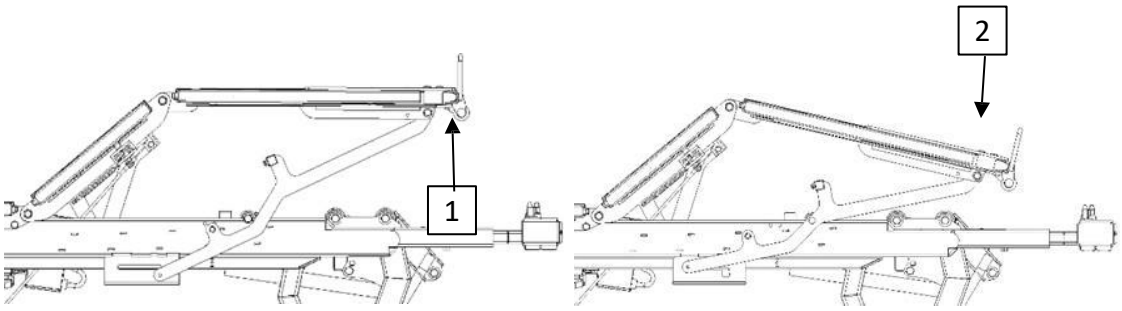
To properly install the headboard and footboard, slide the two posts, from the headboard or footboard, through the two holes provided until they reach the bottom. To remove the boards, follow the reverse procedure.





## 3.7. Adjustment of the foot section angle

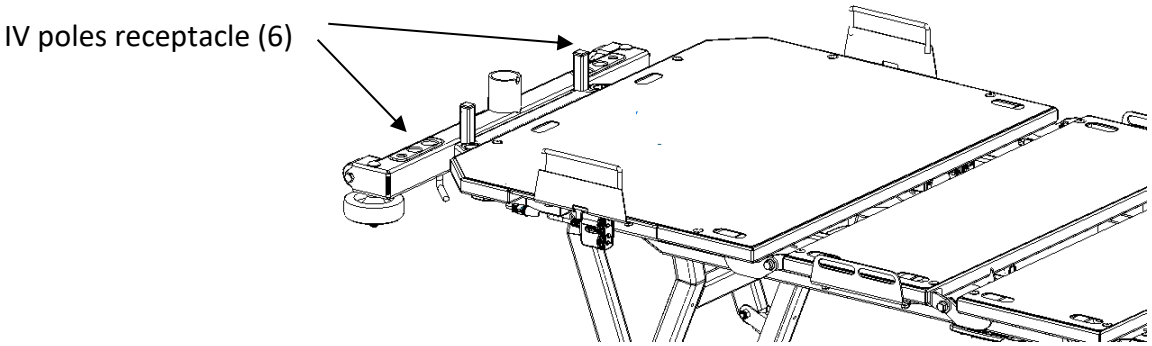
Before you adjust the foot angle on the Med-Surg XL bed, the foot section must already be elevated (step #1). Otherwise, the angle adjustment cannot be made. To adjust the angle of the foot section, raise the end of the foot section until you feel the mechanism unlock. Once it's unlocked, lower the foot section to its lowest position (step #2).




To return the foot section to a flat, horizontal position, fully lower the thigh section using the motorized controls. This will automatically bring the foot section back to a horizontal, locked position.

## 3.8. IV poles receptacle

The bed is equipped with six (6) IV pole holders located at the head of the structure. These holders come in three different sizes: 1/2 inch, 7/8 inch, and 1 inch diameter.

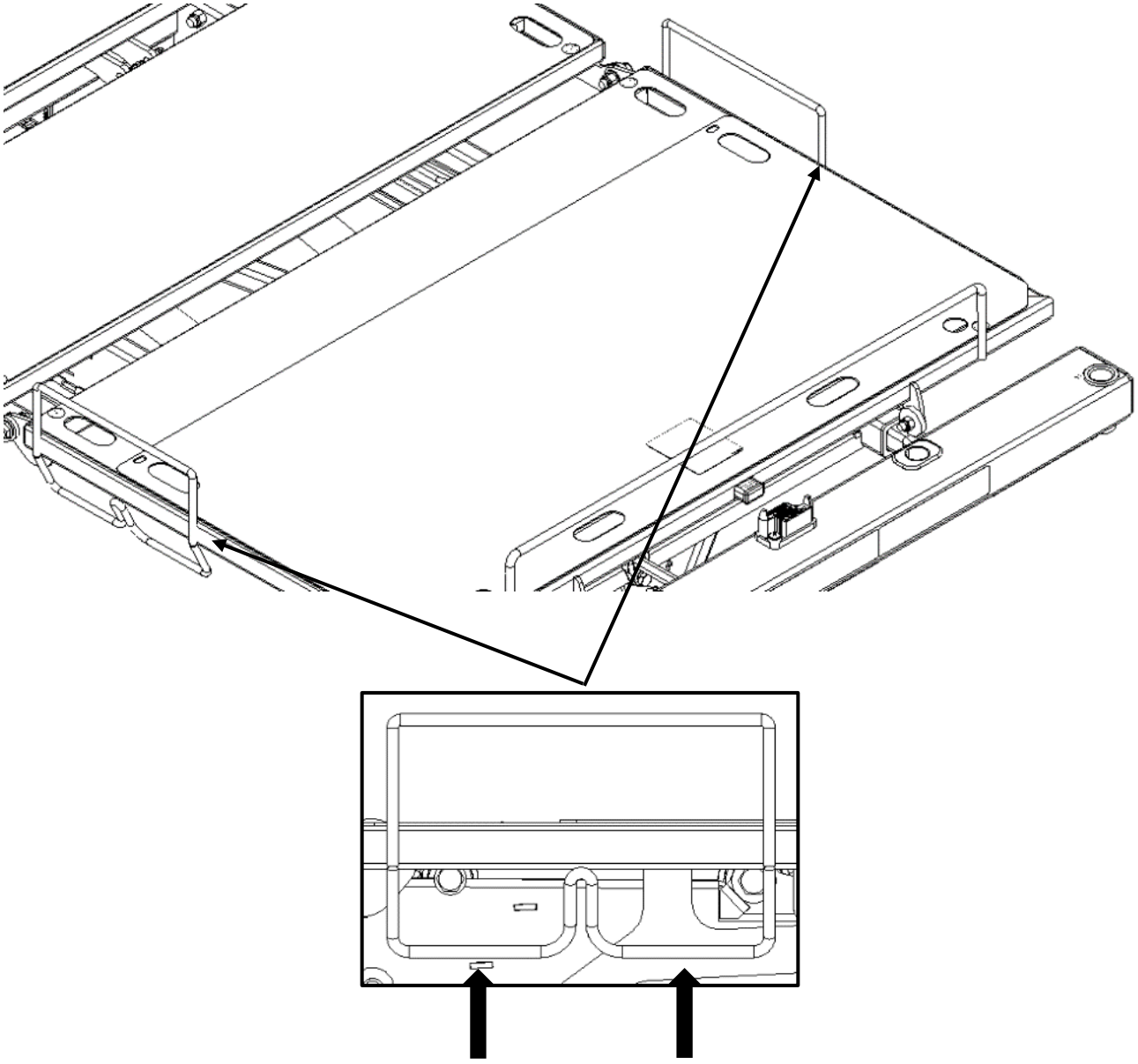



**WARNING ABOUT IV POLES RECEPTACLE**

- Never use the Trendelenburg function when an IV pole is installed on the bed. Doing so may cause damage to the equipment and increase the **RISK OF INJURY** to the patient.

## 3.9. Drainage bag receptacle

The Med-Surg XL bed has four (4) designated locations for installing a drainage bag, with two (2) on each side. Choose one of these locations to securely support the drainage bag.

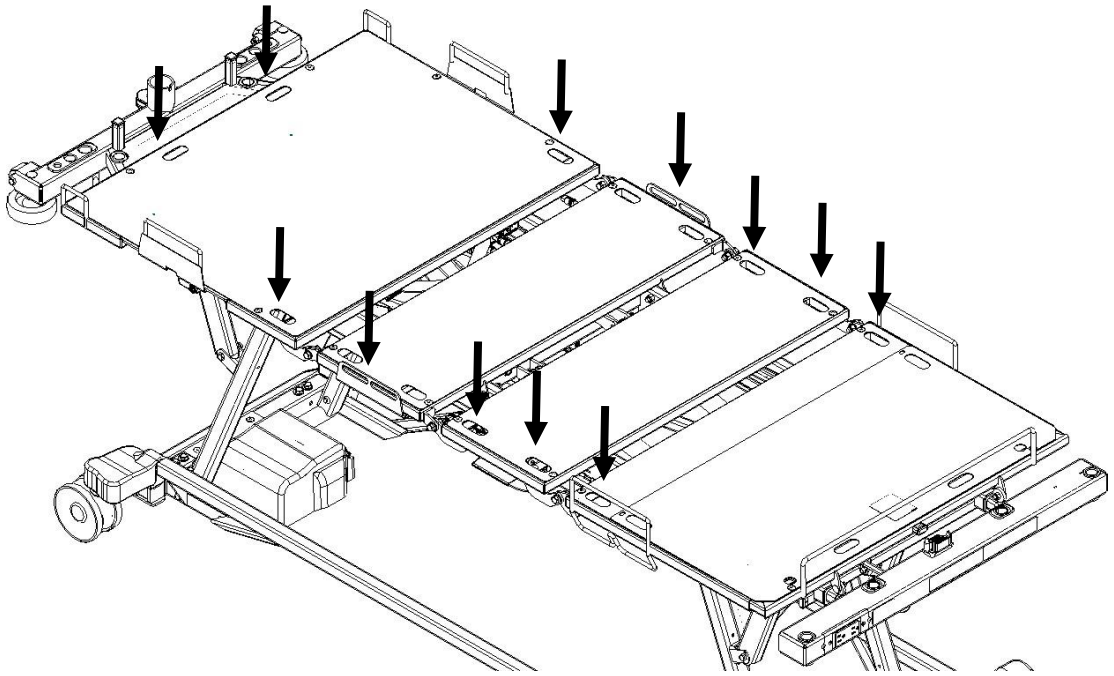


**WARNING ABOUT DRAINAGE BAG**

- Do not lower the device to its minimum height when a drainage bag is attached, as it may fall off and cause **INJURIES** to the patient.
- Caution: Attaching a drainage bag elsewhere on the device may result in **INJURIES** or **MATERIAL DAMAGE.**

## 3.10. Openings for restraint belts

Openings are located on each side of the platform. It is the responsibility of the medical staff to properly use the restraints and to select the appropriate openings for installation. We recommend attaching your restraints only at the end of the extenders according to your patient's shape and size.

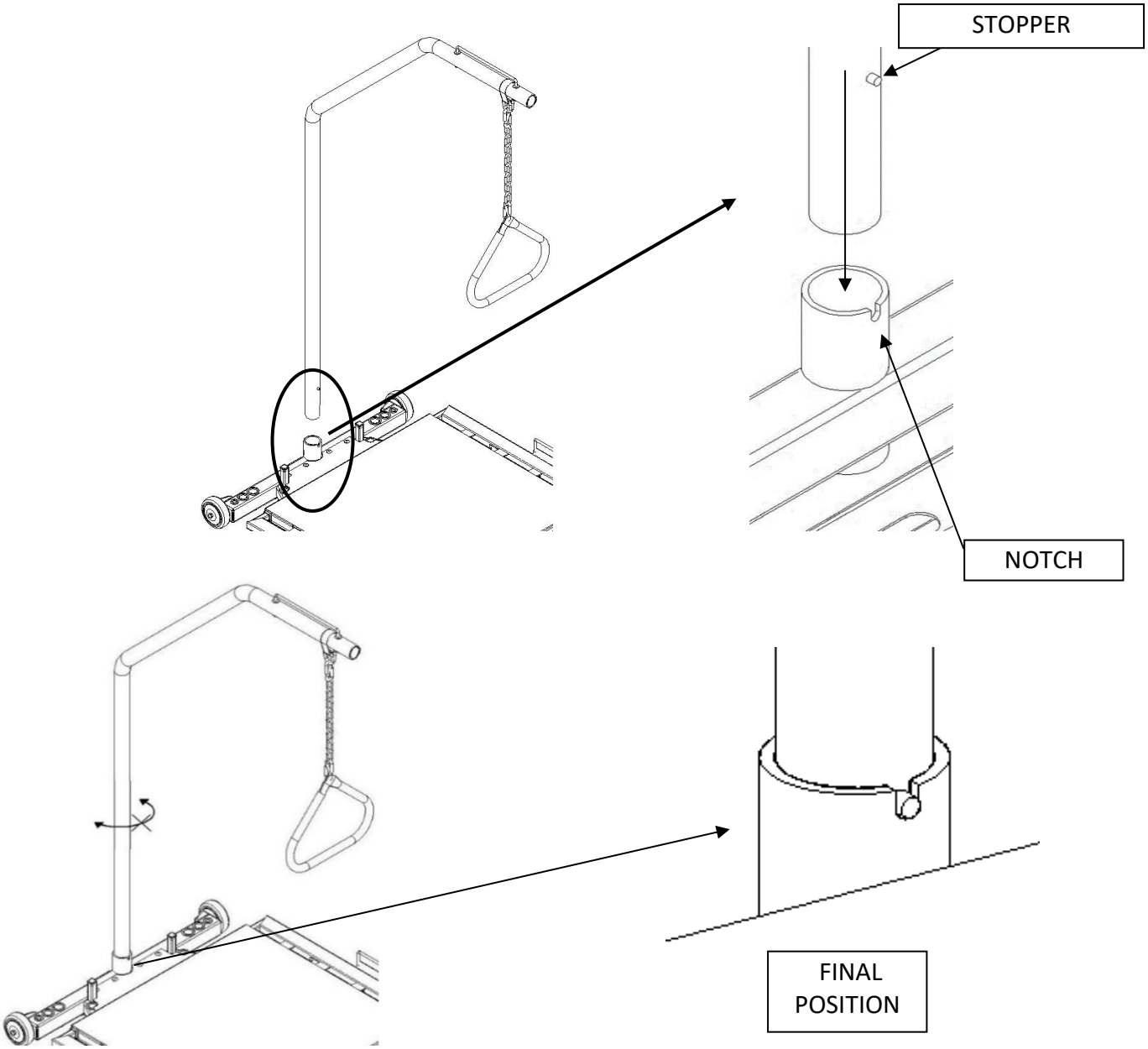


**⚠ WARNINGS ABOUT THE RESTRAINT STRAPS**

- Always verify that the restraints are not becoming tighter around the patient as the platform moves. Tightening may lead to a **RISK OF INJURY**.

## 3.11. Installation of the trapeze bar (option)

To install the trapeze bar, simply insert the bar into its designated receptacle. Be sure to align the positioning stop with the notch. The trapeze bar is designed specifically for Rotec trapezes.



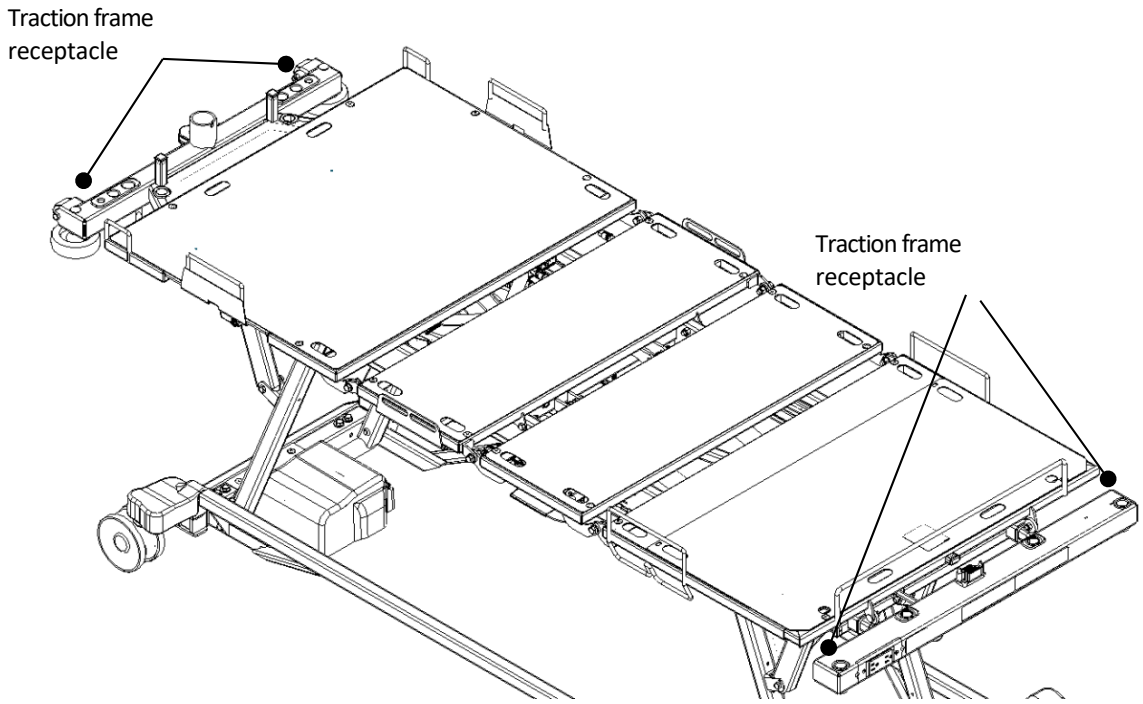

Once the bar is in place, test it by attempting to turn or move it, ensuring it is securely positioned.

**⚠ WARNING ABOUT TRAPEZE BAR**

- Do not use the Trendelenburg function when the trapeze bar is installed on the bed. Doing so may cause damage to the equipment and increase the **RISK OF INJURY** to the patient.

## 3.12. Traction frame receptacle

To install a traction frame, use the ⅞" diameter mounting points located at the head and foot ends of the bed frame. Note that these are the same openings used for IV poles.

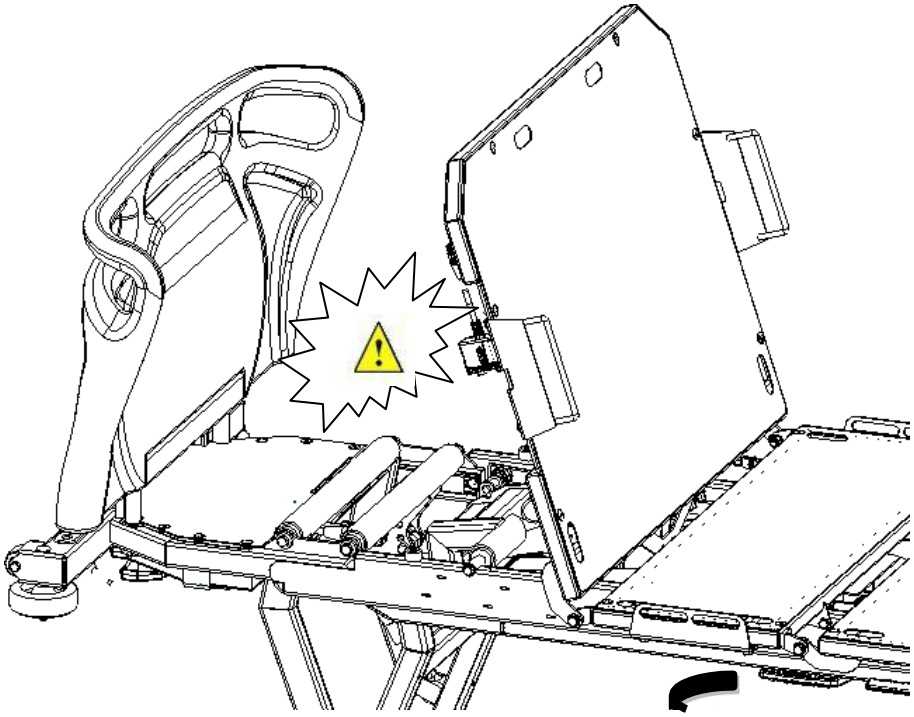



**⚠ WARNING ABOUT THE TRACTION FRAME RECEPTACLE**

- Do not use the Trendelenburg function when a traction frame is attached to the device to prevent **MATERIAL DAMAGE** and **RISK OF INJURIES** to the patient.

## 3.13. Mechanical CPR function

To activate the mechanical CPR function on the Rotec VersaTech Med-Surg XL bed, pull the handle located under the thigh section of the platform to lower the backrest section only.



**⚠ WARNING ABOUT THE CPR FUNCTION**

- Ensure that no part of the patient's body extends beyond the mattress and that there are no obstructions under the bed platform before activating the **CPR** function. **SERIOUS INJURIES** may occur if this function is not used properly.
- The **CPR** function should **ONLY** be used in an **EMERGENCY**. Using it for any other purpose could result in **SERIOUS INJURIES** to the patient or operator.
- The side rails must be in the raised position before activating the mechanical **CPR** function. Otherwise, the side rail mechanism could open suddenly, causing **SERIOUS INJURIES**.

## 3.14. Nurse call and DB37 ouput

Pressing the nurse call button sends a signal to the on-call station.

The bed must be connected to the wall using a DB37 communication cable, with the socket located under the frame at the head end of the bed.

Depending on the facility's system configuration, the receptacle supports the transmission of either a normally connected (NC) or normally open (NO) signal.



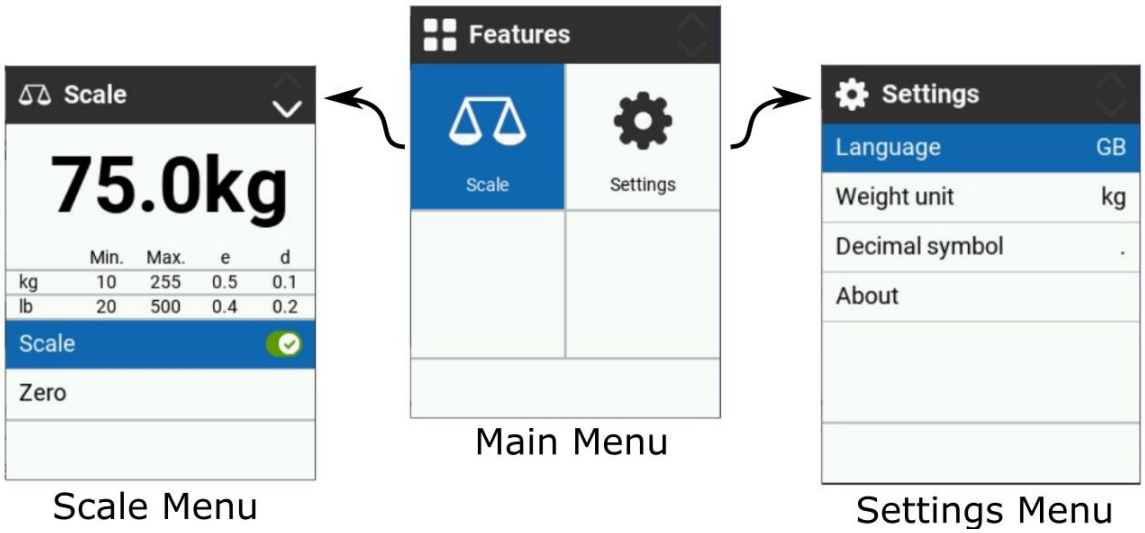

Note: If enabled, this receptacle also sends a signal in the event of a bed exit.

**⚠ WARNING ABOUT THE DB37 OUTPUT**

- Ensure that the signal is functional. A non-functional connection could result in **TREATMENT DELAYS, WHICH MAY AGGRAVATE CONDITIONS OR CAUSE INJURIES**.

## 3.15. Integrated scale (option)

The integrated scale lets you measure a patient's weight. Use the display and directional keys on the footboard to access its functions




Navigate menus with the arrow keys. The highlighted blue color shows your current selection.

**Scale**

The scale feature is used to monitor the patient weight. The scale menu itself is a special list menu view with focus on showing the patient weight. The list contains up to seven items, depending on calibration.

| | |
|---|---|
| **Scale:** | Turns the feature on or off. When turned on, the current weight on the application will immediately be shown, first with blue letters, which indicates that the weight on the bed is still not stable. When the weight on the bed is stable, then the letters will turn black, indicating the stable weight.<br>Please note that, when scale turned on, this tile moved at the bottom of the Scale menu.<br>When the feature is off, list items will be in a greyed-out state and cannot be accessed. |
| **Zero:** | Zeroes the bed. The bed can only be zeroed if the weight is below 50 kg (This value can be changed when calibrating the bed). |
| **Auto-compensation:** | Is used to add/remove items from the bed, such as a new pillow or equipment, without impacting the patient weight. |
| **Save weight:** | Save weight of the patient. There are 10 memory spaces for saving the weight. |
| **Weight log:** | View the last saved weight/s of the patient. It is only possible to see the latest 10 saved weight entries. |
| **Clear weight data:** | Is used to clean up the weight log. |

**Abbreviations**

- Min: Minimum weight to be measured
- Max: Maximum weight to be measured
- e: Weight resolution
- d: Detailed weight resolution (only visible when e≠d)

**Scale Display on mains or in battery mode**

Scale Display can run when the control box is on mains or in battery mode. ⚠ Please be aware that the scale feature will be disabled in battery mode.

**In the main area, the following scale icons can be seen:**

| Description | Neutral icon | Selected icon |
|---|---|---|
| **Default** |  |  |
| **ON** |  |  |
| **Error** |  |  |
| **Disabled** |  |  |

**Settings:**

| | |
|---|---|
| **Language:** | Choose system language (English, German, French, Spanish, Danish, Portuguese, Polish, Chinese). |
| **Brightness:** | Choose the display brightness level (Min., Mid., Max.) |
| **Weight unit:** | Choose kilograms or pounds. The list item is only visible if the calibration supports pounds. |
| **Decimal symbol:** | Choose between a comma or dot. |
| **Advanced:** | Set up gateway signal, scale calibration, about and scale verification. |

**In the main area following settings icons can be seen:**

| | Neutral | Selected |
|---|---|---|
| **Default** |  |  |

## List menu inside “Advanced”:

| | | |
|---|---|---|
| **Gateway signal: (only needed if gateway is connected)** | Choose how the gateway signal is sent, either pulse or follow. In case of an event using the gateway, such as a person leaving the bed with out of bed active. | |
| | Pulse: | Sends a signal via the gateway and shuts off. Will send a new signal when the person returns to bed. |
| | Follow: | Will keep sending a signal as long as the person is out of bed. |
| **About:** | This section contains settings including calibration from the control. | |
| | Software: | This section outlines the current software and version programmed in the control box. |
| | Software QLCI2: | This section outlines the current software and version programmed in the QLCI2. |
| | Scale verification: | This tab contains information on the specified precision of the scale, the determined gravitational force at the destination, and the number of calibration procedures that have been conducted. |

## Calibration via scale display unit:

To calibrate the QLCI2 via a scale display unit, there is no need for an additional calibration SW or a calibration cable. The calibration is performed via the “Scale calibration” function, which is placed under Settings – Advanced (This feature can be disabled via calibration tool).

Press OK button to get into the “Scale settings” feature. Please note that the calibration function is password-protected and the default password is “0001”. Use the up and down arrow keys to change each digit and use left and right arrow to move between digits. Press “OK” button to enter the password.

If calibration on scale display unit is required, be aware that system calibration is enabled by default.

**List menu inside "Scale calibration":**

| | |
|---|---|
| Gravity D, m/s$^2$: | The gravity of the destination in m/s2. In order to type the new value and navigate between the digits, simply use the arrow keys. Press OK button, when the new value is typed. |
| Pounds supported: | If selected, the marking plate in the display will also include the equivalent settings and the user can select between pounds and kg. |
| Set new code: | To change the default code to enter the calibration menu. In order to type the new code and navigate between the digits, simply use the arrow keys. Press OK button, when the new code has been typed. |
| Scale calibration: | Opens the calibration menu (1-point calibration), including two list items together with the marking plate view:<br>Calibr. weight: Weight of the calibration load in kilograms. In order to type the new weight and navigate between the digits, simply use the arrow keys. Press OK button, when the new weight has been typed.<br>Start calibration: When all the settings are done, press the OK button, when start calibration item is selected. |

| | |
|---|---|
| Establish no load: | Remove any weight on the application that is not intended to be a weight of the application and press OK to proceed.<br>It is recommended to make calibration without for instance the mattress and other things that the end users can change themselves. |
| Establish calibration load: | Place your calibration weight centrally on the application and press OK to proceed. |
| Calibration complete: | Calibration is successfully completed. Press OK to save the calibration data. |

NOTE: A minimum of 300kg is required to achieve proper calibration value.

**Pop-ups**

Pop-ups occur when the user needs to take action.
There are four pop-up types:

| | |
|---|---|
| **User instructions:** | These are messages to the user, asking to wait or accept certain changes. User instructions will have a black background with white text. |
| **Notifications:** | Notification pop-ups occur when you enter a menu with a notification.<br>Notifications will have a yellow background. |
| **Errors:** | The error pop-up will be shown when an error/user error occurs.<br>Errors will have an orange background. |
| **Low battery:** | Low battery (below 20%) icon will flash in left area of Infoline. |

**Prioritizing:**

In case that multiple pop-ups occur at the same time, the priority of the icons is listed as below:

- **High** → Errors
- **Mid** → Notification – Out of bed
- **Low** → Notification – Low battery

**Pop-up icon list**

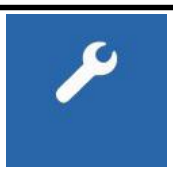
The below icons are being displayed either when activated or being detected.

| | |
|---|---|
|  | **Error** |
|  | **Low battery** |
|  | **Low battery** |

**Error codes:**

Message type detail

E: Error, something which blocks normal operation.
W: Warning, something which leads to lower performance.
U: User error, the application has detected that the system is used incorrectly, the usual user is able to fix the problem.

| Description | Neutral icon | Selected icon |
|---|---|---|
| **Error** |  |  |

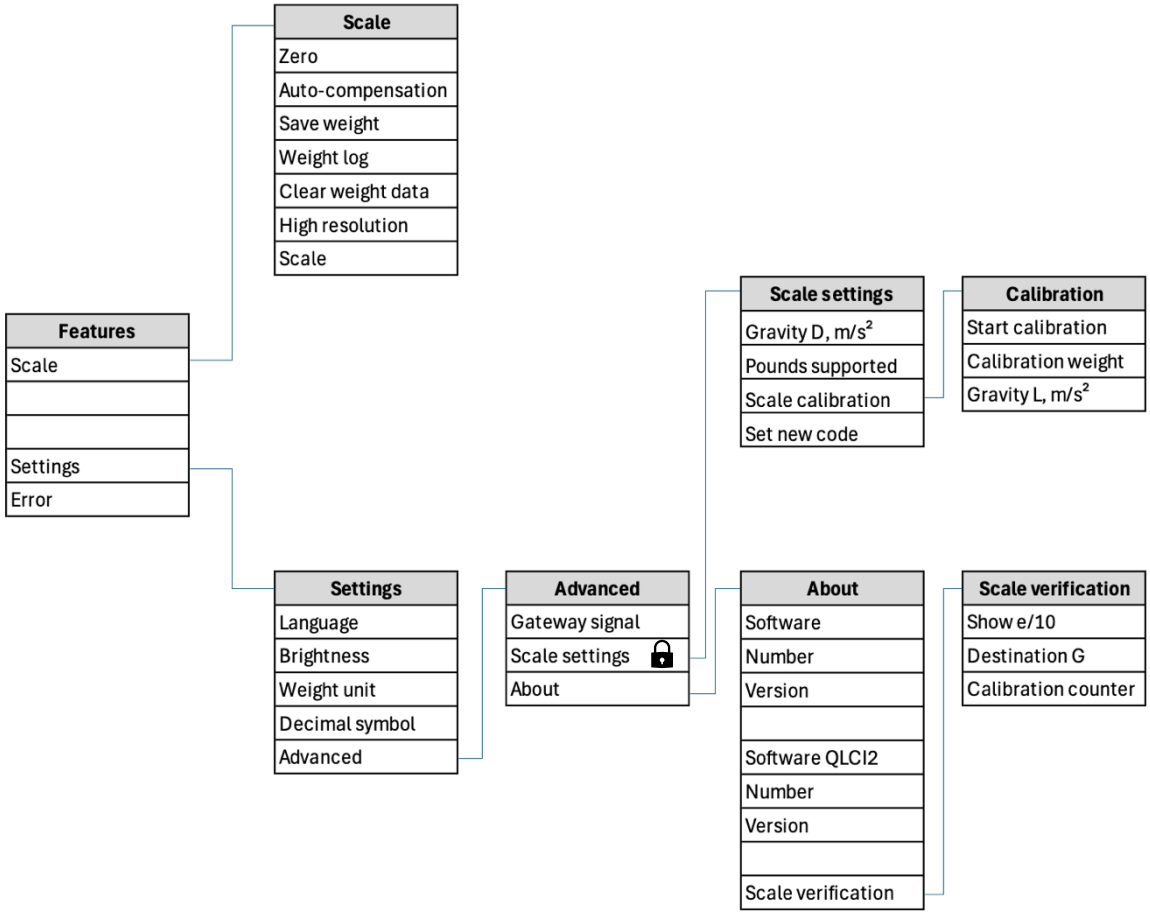
**General:**

| Message ID | Message type | Short description | Long description | Troubleshoot guide |
|---|---|---|---|---|
| E1AA01 | E | OB inactive | E1AA01: OB inactive | Check connections and cables and restart system. |
| E1AB01 | E | Fatal error | E1AB01: Fatal error | Check connections and cables and restart system. |

**Scale:**

| Message ID | Message type | Short description | Long description | Troubleshoot guide |
|---|---|---|---|---|
| E1AE01 | E | Comm. error | E1AE01: Communication error | Turn scale on/off |
| E1AE04 | E | LC1 disconnected | E1AE04: Load cell 1 disconnected | Check load cell 1 connection and calibrate system |
| E1AE05 | E | LC2 disconnected | E1AE05: Load cell 2 disconnected | Check load cell 2 connection and calibrate system |
| E1AE06 | E | LC3 disconnected | E1AE06: Load cell 3 disconnected | Check load cell 3 connection and calibrate system |
| E1AE07 | E | LC4 disconnected | E1AE07: Load cell 4 disconnected | Check load cell 4 connection and calibrate system |
| E1AE08 | E | Not calibrated | E1AE08: Not calibrated | Please calibrate the system again |
| E1AE09 | E | Incorrect calibration | E1AE09: Wrong calibration | Please calibrate the system again |
| E1AE10 | E | Checksum failure | E1AE10: checksum failure | Turn scale on/off |
| E1AE11 | E | Hardware error | E1AE11: Hardware error | Check connections and cables and restart system |
| U1AE01 | U | | U1AE01: Overload | Remove weight from the bed Risk of damaging the bed |
| U1AE02 | U | | U1AE02: Insufficient load | Please add weight to the bed or check if load cells are unloaded due to external factors |
| U1AE03 | U | | U1AE03: Weight unstable | Make sure the weight is stable. If retry, make sure not to change the weight |
| U1AE04 | U | | U1AE04: Weight above max. | Please remove weight from the bed and try again |
| U1AE05 | U | | U1AE05: Weight above min. | Please add weight to the bed and try again |
| U1AE06 | U | | U1AE06: Zero above max. | Please remove weight from the bed and try again |
| W1AE01 | W | Scale missing | W1AE01: Missing | Check connections and cables and restart system |

## Menu structure:




## ⚠ WARNING ABOUT THE SCALE SYSTEM

- Disabling the scale will also disable the bed exit or egress detection function.
- Any unauthorized intervention, repair, or modification of the weighing system shall invalidate the initial calibration and shall require a new calibration before the system is returned to service.

## 3.16. Bed exit detection system (option)

The bed exit detection system requires no calibration. It alerts you to weight variations detected by the scale. To activate it, ensure the patient is in bed and stable, select the desired zone, and hold the button until the green light stops flashing. Simply press the corresponding button while the patient is in bed to enable the function.

**Buttons identification**




**Zone 1:** The Zone 1 button activates the Bed Exit Detection system. It alerts you if the bed's measured weight drops significantly, signaling that the patient may have left the bed.




**Zone 2:** The Zone 2 button activates the Lateral Motion Detection. This system alerts you if the patient attempts to exit the bed from the side. Be aware that it may cause false alarms if the patient is agitated or moving in their sleep. To minimize false alarms and improve accuracy, ensure the patient is centered in the bed when activating Zone 2. This function also includes the Zone 1 alert.




**Zone 3:** The Zone 3 button activates Frontal Movement Detection. This system alerts you if the patient attempts to exit the bed towards the foot end. Be aware that it may cause false alarms if the patient is agitated or moving in their sleep. To minimize false alarms and improve accuracy, ensure the patient is centered in the bed when activating Zone 3. This setting also includes alerts from Zone 1 and 2, making it the most sensitive option.

**Alerts:**

When the patient moves and activates the alert, the system provides **three (3) types of warnings:**

1. **Visual indication:** Indicator lights under the footboard interface flash red to warn staff.

2. **Buzzer:** The buzzer sounds to alert caregivers. You can activate or deactivate it by pressing and holding the Zone 1 and 2 activation buttons on the bed exit detection system. The following beeps indicate the status:
   - 1 beep = Buzzer deactivated
   - 3 beeps = Buzzer activated

   *The buzzer noise level can also be adjusted by turning its cover.

3. **Alerting the on-call station**: This is done via the DB37 output connected to the facility. For details, refer to the Nurse Call and DB37 Output section.

Note that there may be a delay of **up to 5 seconds** before the alarm is triggered after motion is detected. Also, deactivating the scale will deactivate the bed exit detection system.

**Important note:**
The bed exit detection system **cannot be activated** while the scale is in **Weighing mode**. To activate the exit alarm, **make sure to exit the Weighing screen** beforehand.

**Caution**

- This system may not be suitable for all patients. Additional devices may be required.
- This apparatus does not replace visual supervision by medical staff. The manufacturer does not claim that this equipment will prevent falls. It is intended as an additional tool within a comprehensive mobility management program for residents.
- The equipment must be tested before each use. Read all instructions and legal disclaimers carefully.
- This system is not designed to replace proper medical practices, including but not limited to direct patient supervision or appropriate fall prevention training for medical staff.
- This device provides warnings when a patient leaves the bed but does not prevent falls.
- The alarm may not activate if the usage instructions are not followed.
- If the alarm is not functioning correctly, turn it off and replace it with a properly working system.
- Ensure that your facility has a clear and effective fall response management policy for falls and fall alarms.
- Whenever possible, the vendor aims to limit its liability for specific damages, accessories, or indirect economic losses related to repair or replacement of the product.
- The vendor disclaims all liability for damages, compensatory claims, or any other losses arising from the use of the product.
- This product is intended for use only by certified medical staff.

## ⚠ WARNINGS ABOUT THE BED EXIT DETECTION SYSTEM

- This function must **NEVER** be used as the sole method to prevent falls. Doing so could result in a **RISK OF INJURIES** to the patient.
- This function must **NEVER** be used as a substitute for visual supervision. Relying solely on this function could lead to a **RISK OF INJURIES** to the patient.
- This function must **NEVER** be used as the sole means of monitoring agitated, combative, suicidal, or high fall-risk patients. Doing so could result in a **RISK OF SERIOUS INJURIES** to the patient.
- Disabling the scale will also disable the bed exit or egress detection function.

## 3.17. VersaDrive motorized wheel (option)

The Rotec VersaTech beds can be optionally equipped with the VersaDrive motorized assistance system, which makes it easier to move the bed. The interface for this system is located on the panel at the foot of the bed.

**To switch the system on and off**



**To activate:**

1. You must first unplug the bed, store the wire, and move the brake pedal to the neutral position before enabling the motorized assistance.
2. Press the power button to activate the system until you hear a beep and the indicator flashes.
3. Release the button, remove your hands from the panel and wait for the system to calibrate and the motorized wheel to lower to the ground. When you hear an audible signal and the indicator stops flashing and goes steady on, the VersaDrive is activated.
4. The motorized wheel will assist your movement based on the pressure applied to the footboard.

**To deactivate:**

1. Press and hold down the start button until you hear a beep and the indicator flashes.
2. Once deactivated, the wheel will retract, and the indicator light will turn off.

**Notes**

- Always set the brake when finished using the drive assist system or when leaving the bed unattended.
- For safety, the wheel assists movement up to a speed of 4.32 km/h or 2.7 mph forward and a speed of 2.64 km/h or 1.65 mph backward, with an autonomy of 8 km or 5 miles.

**Battery charge level**



The motorized wheel is powered by an independent battery. Indicator lights display the approximate percentage of battery remaining.

The VersaDrive battery recharges automatically when the bed is plugged in via the main power cable. When the bed is plugged in, the motorized wheel is deactivated.

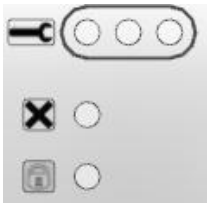
## Emergency stop button



In case of an emergency, press the emergency stop button to disconnect the power supply to the motorized assistance system. Turn the button to reactivate it, then press the power button.

**Be cautious:** Using the emergency button deactivates the electric brake, and the operator will need to slow down the load manually without assistance. Only use this button in the event of an electrical fault causing a loss of control. Do not use it for normal braking or to shut down the system.

## Troubleshooting Indicators



If the indicator light on the start button is lit in a color other than green, or if any other indicator lights are illuminated, the system may be in a non-functional error state.

To resolve the issue, restart the VersaDrive. If the problem persists, contact customer service for further assistance.

## ⚠ WARNING ABOUT THE MOTORIZED WHEEL

- Always disengage the motorized wheel system after completing a move and re-engage the brake to prevent unintentional movement that could cause injury.
- Switch off the motorized wheel completely before the patient gets in or out of bed to reduce the risk of falls.
- The VersaDrive system must only be operated by qualified staff.
- The operator must not be distracted or under the influence of substances that could impair their ability to operate the system safely.
- Do not use the VersaDrive on slopes exceeding 6 degrees.
- Ensure that neither the mattress nor the patient is pressing against the foot panel while using the VersaDrive.

## VersaDrive Troubleshooting Guide

If the VersaDrive system is not functioning as expected, follow these steps until the issue is resolved:

1. Turn the system off, then turn it back on.
2. Do not touch the foot panel during the first few seconds of calibration.
3. Ensure no lights are blinking, and troubleshooting indicators are off.
4. If the issue persists, refer to the troubleshooting table:
    a. Inspect the indicated components.
    b. Ensure all cables are securely connected.
    c. If available, try replacing the affected part.
5. If the problem remains unresolved, contact customer service.

| Issue | Possible Cause |
|---|---|
| All lights are blinking. | Emergency button is active. Twist to reset. |
| Orange blinking battery light | Low batterie charge. Plug the bed into a power source. |
| Green blinking battery light. | Unplug the main power cable before moving. |
| System doesn't start or immediately switches off. | Issue with battery or charger. |
| Wheel remains inactive while system is on. | Issue with wheel or control box. |
| Bed doesn't automatically brake. | Issue with foot panel sensor. |
| Bed moves short distances by itself. | Floor angle or foot panel sensor issue. |
| X or Lock indicator is lit. | Issue with control box program. |
|  | Issue with control box. |
|  | <br>Issue during initial calibration.<br><br>Issue with stable signal. Possibly caused by an object touching the foot panel, causing a stable pressure on the sensor. Can sometimes happen at very low speed with constant handle pressure. Otherwise, issue with foot panel sensor. |
|  | Issue with foot panel connection or buttons. |
|  | Issue with motor wheel. |

## 3.18. Auxiliary outlet (option)

If the If the bed is equipped with an auxiliary power socket, it is located under the footboard.

The voltage of the auxiliary socket matches the mains supply, and the socket capacity may be 2.5 amperes or 5 amperes, depending on the model.

This socket is connected to the bed's main power supply via an isolation transformer.

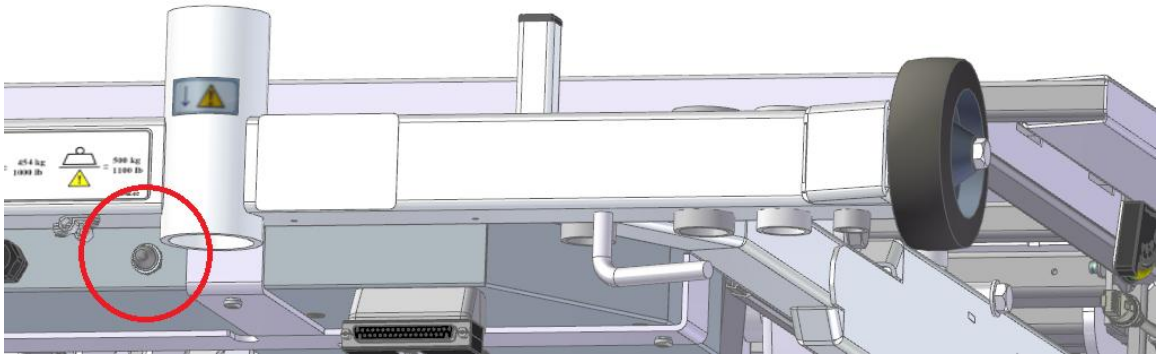
Unplugging the bed's wall power supply deactivates the auxiliary socket output.

Note that the auxiliary power socket is designed for a maximum connection of 600 watts.

Exceeding the power rating indicated on the plug marking may cause the circuit to break.

If the socket is not working, press the circuit-breaker reset button located near the power cable inlet at the head to reconnect the circuit.

Finally, do not use the auxiliary socket for life-sustaining equipment.



**⚠ WARNING ABOUT THE AUXILIARY POWER OUTLET**

- Only connect medical-grade devices that consume 5A (120 VAC) / 2.5A (220/230/240 VAC) or less to the auxiliary outlet.
- Connecting an electrical device to the auxiliary outlet creates an electromechanical system, which may reduce the overall level of safety.
- Do not connect an extension cord or multi-tap socket to the bed’s auxiliary outlet.
- **Do not use the auxiliary outlet for life-sustaining equipment.**

# 4. MAINTENANCE

## 4.1. Cleaning

Here are the precautions to consider when cleaning the device:

- Do not wash the bed with a high-pressure water jet. Ultrasonic cleaning and immersion of bed components are not recommended.
- Always disconnect the bed from power before cleaning.
- Use hospital-grade cleaning solutions such as Presept, Zochlor, Fectolime, F-12167 Zep, Zep Spirit II, ACCEL Prevention RTU (Virox), Clorox Healthcare Wipes, 3M HWS-100, or commonly used residential soaps. Clean the bed by hand, and cleaning products may be applied by spraying. Ensure the cleaning solution is used at the manufacturer's recommended concentration.
- A chlorine solution of up to 10,000 ppm may be used. Rinse with clear water after the recommended exposure time to remove any excess chlorine residue.
- Steam cleaning is allowed, but do not use a high-pressure jet.
- Ensure that all cleaned parts are completely dry before using the bed.
- If the bed is equipped with a VersaDrive motorized wheel, remove any dust or fiber build-up around the wheel axle.

**⚠ WARNING ABOUT CLEANING**

- Failure to follow these cleaning safety instructions may compromise the integrity of the bed and render it unusable.

## 4.2. Preventive maintenance

To ensure the device remains in optimal condition, perform the following checks annually:

- Inspect the overall condition of the equipment to ensure it is still in good working order.
- Connect the device's power cable and leave it plugged in for at least 48 consecutive hours.
- Ensure that all nuts and bolts are securely tightened.
- Inspect the wear of shoulder washers, which reduce friction on moving parts. Do not lubricate—replace if necessary.
- Ensure that no objects or equipment obstruct the movement of the bed's moving parts (e.g., wheels, structure).
- Examine the condition of the remote-control wire, power cord, and bed cables. Replace any damaged components.
- Test all device functions to confirm they operate correctly, following the instructions in this manual (see Section 3).
- Unplug the power cable and operate the actuators to verify battery functionality.
- If the VersaDrive option is installed, test the motorized wheel to assess its functionality and battery life.
- For optimal performance, replace the bed batteries every 3 years.
- Check the accuracy of the weighing system by applying a calibrated weight. If the system is not compliant, contact Rotec for assistance.

**⚠ WARNING ABOUT PREVENTIVE MAINTENANCE**

- Preventive maintenance is essential to ensure the reliability of the bed. A bed showing any abnormalities must not be used. Any issues must be repaired immediately by an authorized and qualified technician. Failure to follow cleaning safety instructions may compromise the integrity of the bed and result in **SERIOUS INJURY**.
- Using replacement parts that are not certified by Rotec may result in **SERIOUS INJURY AND/OR SIGNIFICANT MECHANICAL FAILURE** and may limit or void the product warranty.
- If any part that provides access to electronic components is broken, the device must be immediately locked down until the damaged part is repaired or replaced. Failure to do so could result in **SERIOUS ELECTROCUTION INJURIES.**

## 4.3. Disposal of the device at end of life

To ensure the safe disposal of the device at the end of its life cycle, follow these steps:

- **Remove the batteries** and dispose of them at a facility designated for battery recycling.
- **Detach and recycle** the power cables, connectors, motors, circuits, controller, and electronic control system at an appropriate recycling facility.
- **Remove and recycle** the wheels, plastic coverings, panels, side rails, and plastic joints from the bed's mechanisms at a designated recycling facility.
- **Recycle all remaining metal components** according to proper recycling procedures.

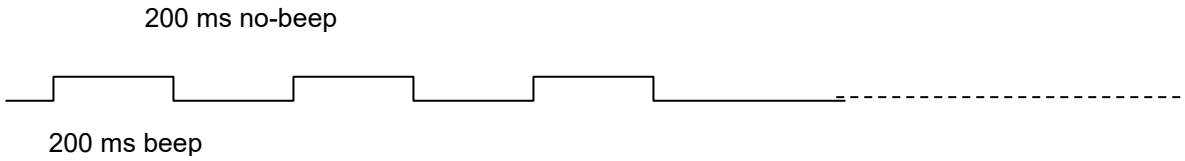
## 4.4. Troubleshooting guide

If any problems arise with the bed or one of its components, refer to the guide below. If the following or additional problems persist, do not hesitate to contact one of our technicians.

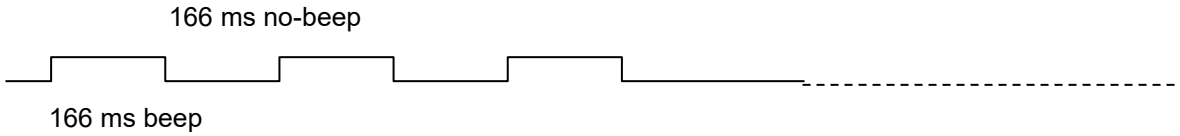
| PROBLEMS | VERIFICATIONS |
|---|---|
| None of the functions of the remote control or the nurse control are working. | - Is the power cord properly plugged in?<br>- Is the power cord damaged?<br>If so, replace it.<br>- Verify all connections. |
| None of the functions on the remote control are working. | - Is the control lock activated?<br>- Is the remote-control wire properly plugged in?<br>- Is the remote-control wire damaged?<br>If so, replace it. |
| One or many functions of the remote control are not working. | - Verify the above-mentioned.<br>- Is the control lock activated for these functions?<br>If not, are the nurse control functions working?<br>If so, have the remote control inspected.<br>- Verify the above-mentioned. |
| The bed runs very slowly. | - Is the power cord properly plugged in?<br>- Is the power cord damaged?<br>If so, replace it. |
| Device emits one or several audible beeps | - Refer to the next section about acoustical signal explanation |

## Explanation of acoustical signals

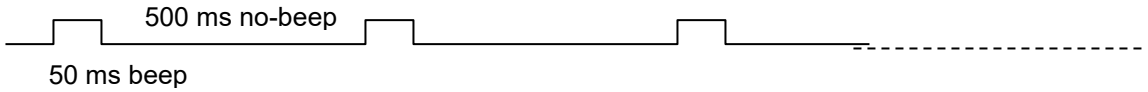
***Position Lost:***



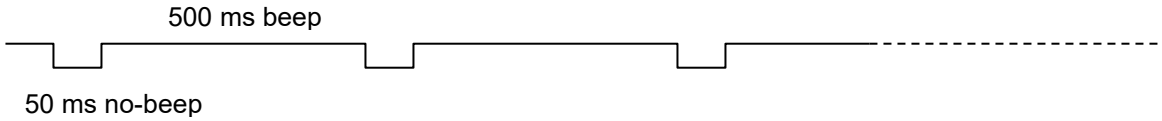

***OOBD Alarm:***



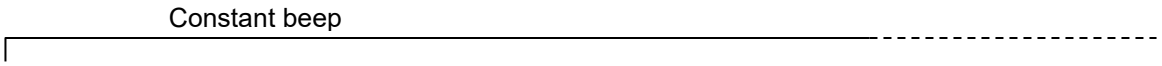

***Fatal Error:***



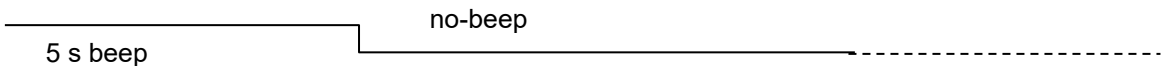

***Fatal Error Reset:***




***Hoot:***




***Over-heating:***



## Troubleshooting after a fatal error

When the control box enters fatal error mode, a fatal error beep will sound each time a button is pressed, alerting the user of the issue. Additionally, all lights will flash when the system is in fatal error mode. Each function of the control box reacts to fatal errors in a specific way.

Here are the types of fatal errors:

1) **Actuator positioner error:**
   - Occurs when the control box expects positioning pulses from an actuator but does not detect them.
2) **Motor output error:**
   - Occurs when power demand is generated, but there is no corresponding command.
   - This error is triggered for safety reasons to prevent unintended bed movement unless a specific command (button press) has been issued.
3) **Missing actuator error:**
   - Occurs when a function is called, but not all required actuators are present.

To clear a fatal error, follow these steps:

1. Press and hold both the **height-up** and **height-down buttons** on either:
   - The nurse control at the foot of the bed, or
   - The removable hand control (remote)
2. Hold the buttons for **5 seconds**.
3. You will hear **10 beeps** indicating that the reset is in progress.
4. Once the **beeps stop**, the **reset is complete**.

**Note:** A fatal error does not erase the actuator position memory. However, the user must verify that the system is in a safe position. Raise the bed to its maximum height to ensure proper actuator position calibration.

# 5. WARRANTY AND RETURN POLICY

## 5.1. Limited warranty

Rotec warranty to the original purchaser of bed VersaTech Med-Surg XL (700 ULB+), the following protections:

- 1 year on manufacturing defect and on the accessories.
- 2 years on motors and electronics components.
- 10 years on the frame.

The warranty coverage begins from the date of purchase of the device. No employee or representative of Rotec is authorized to modify this warranty in any way. This warranty does not cover damages caused by negligence or improper use. Rotec will not be held responsible for any other warranty offered by any person, firm or company, to the exclusion of the one stipulated above. Rotec reserves the right to substitute equal or superior quality materials during repairs and/or replacements. The material replaced and covered by this warranty does not allow one to benefit from a new warranty. It only benefits from the original warranty.

The warranty on the bed and/or its accessories does not apply to damages resulting from modification and/or unauthorized additions or installation of accessories other than those authorized by Rotec. Use only replacement parts supplied by Rotec. Proof of annual preventive maintenance could be asked for to benefit of this warranty.

For further information, contact our Technical Services. Our hours of operation are from Monday to Friday from 8:30 AM to 12:00 PM and 1:00 PM to 5:00 PM.

**⚠ WARNING ON WARANTY**

- Any modifications to the device without the authorization of Rotec may lead to **SERIOUS INJURY AND / OR IMPORTANT MECHANICAL DAMAGE** and could **LIMIT OR VOID THE PRODUCT WARRANTY.**

## 5.2. Return policy

### Non-compliant product

If a Rotec product does not match the original order invoice, the issue must be reported within 48 hours of delivery. Any necessary corrective actions will be carried out at Rotec's expense and will be addressed as soon as possible following notification of the non-compliance.

### Damaged product

It is the receiver's responsibility to inspect the shipment, even if the box(es) appears to be in good condition. Any damage must be noted on the bill of lading. Rotec must be notified within 24 hours of receipt to inform the carrier as soon as possible. If Rotec is not informed within 24 hours, or if damages are not recorded on the bill of lading, the customer may be responsible for all costs incurred to replace or repair the damaged product.

### Return product

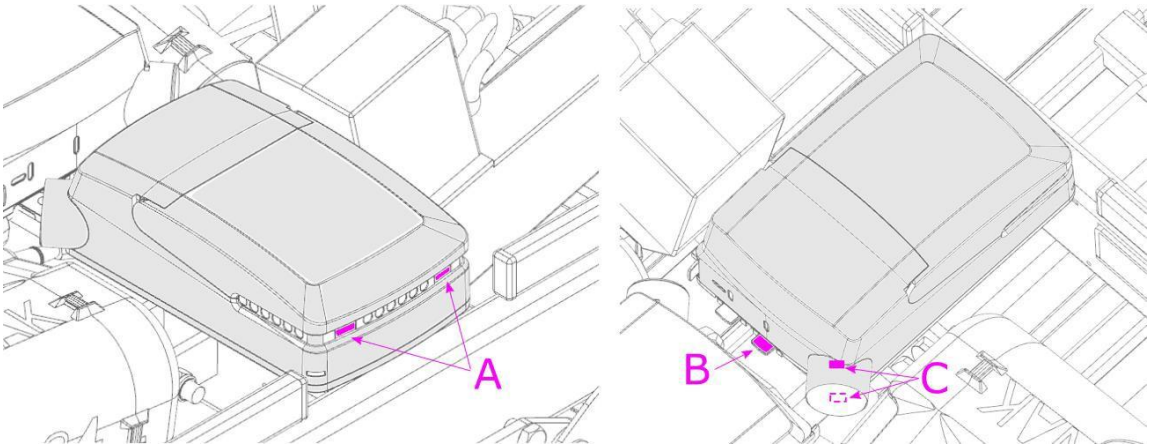
All returned products require an RGA (Return Goods Authorization) number and are subject to a 25% restocking fee. Additionally, the customer is responsible for all transportation charges related to the return. For more information, please contact our customer service team.

# 6. REPAIR PROCEDURES

## 6.1. Replacing the QLCI (scale circuit)

Required tools:

- Flat screwdriver
- Cutting pliers



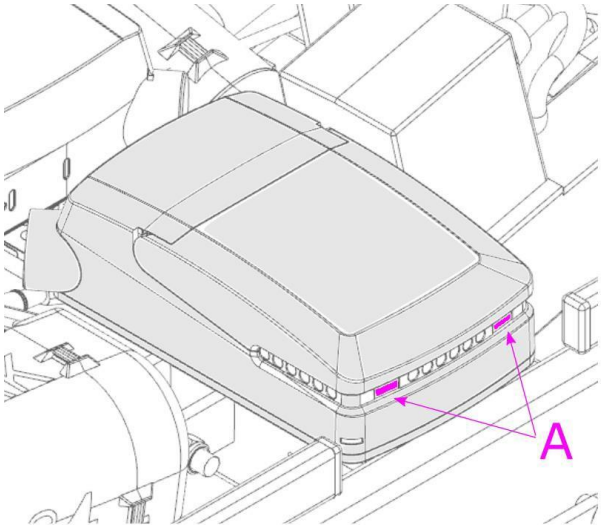

Procedure:

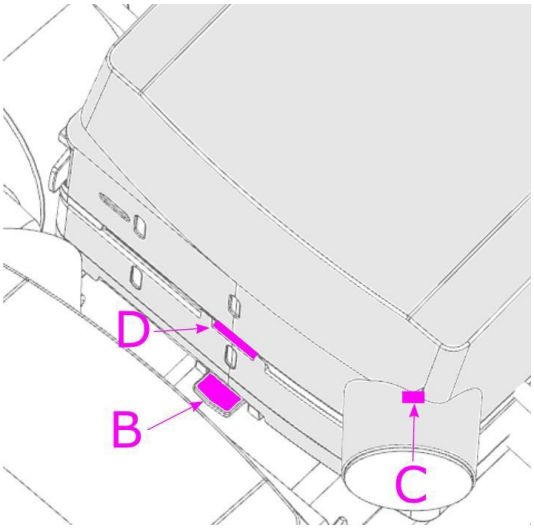
1. Raise the bed to its highest position and apply the brakes.
2. Unplug the power cord from the wall outlet.
3. Open the case by pressing the two latches (A).
4. Disconnect all cables under the cover, making note of their locations.
5. Remove the QLCI by pressing the lock at the bottom (B) and sliding it out. Cut wire ties if necessary.
6. Disconnect the power supply from the corner of the QLCI (C) using a flathead screwdriver.
7. Reverse the above steps to install the new QLCI.
8. Check the scales for proper operation before returning the bed to service.

## 6.2. Replacing the main circuit or its battery

Required tools:

- Flat screwdriver
- Cutting pliers




Procedure:

1. Raise the bed to its highest position and apply the brakes.
2. Unplug the power cord from the wall outlet.
3. Open the case by pressing the two latches (A).
4. Disconnect all cables under the cover, making note of their locations.
5. Remove the circuit by pressing the bottom lock (B) and sliding it out. Cut wire ties if necessary.
6. Disconnect the power supply from the corner of the circuit (C) using a flathead screwdriver.
7. Separate the battery from the circuit by pressing and sliding the lock (D). Open the wire door with a screwdriver to disconnect the wire.
8. Reverse the above steps to install the new parts.
9. Check all controls for proper operation before returning the bed to service.



**⚠ BATTERY DISPOSAL WARNING**

- Ensure the battery is recycled at a facility designated for this purpose.

## 6.3. Replacing the VersaDrive battery

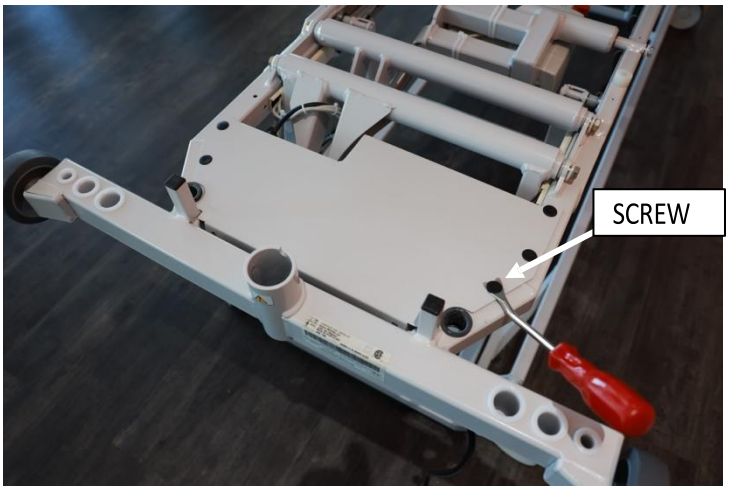
Required tools:

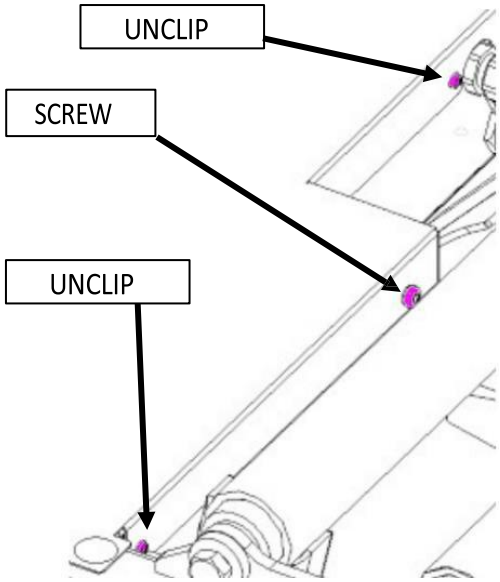
- Robertson #2 square screwdriver
- Flat screwdriver
- Extractor screwdriver

**⚠ ATTENTION! THE MAINTENANCE OF THE ELECTRICAL SYSTEM MUST ONLY BE CARRIED OUT BY QUALIFIED PERSONNEL.**

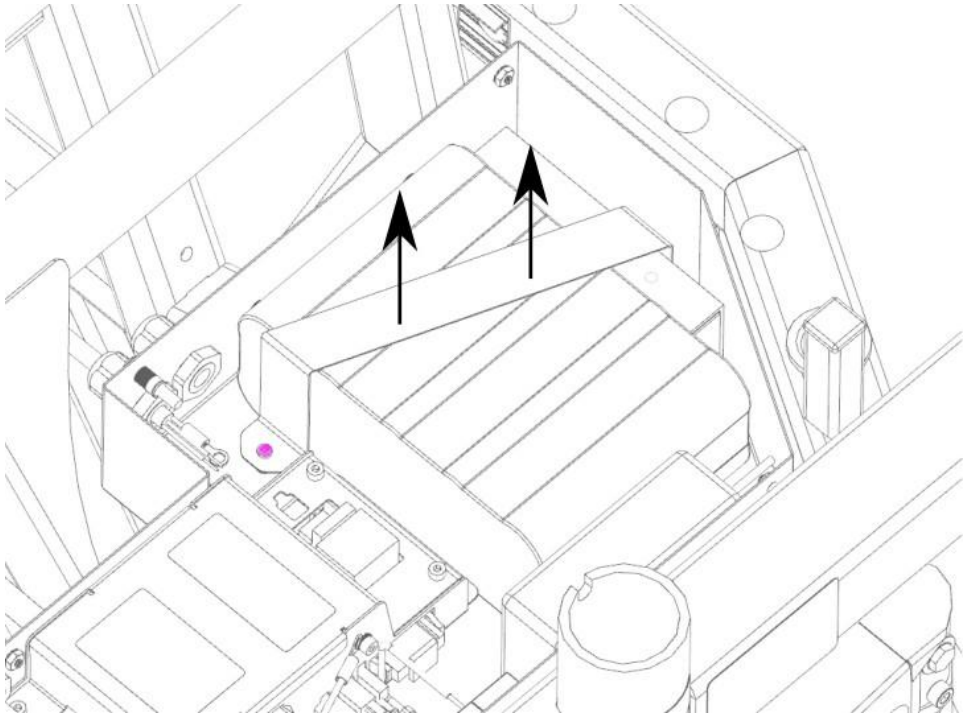
Procedure:

1. Raise the bed to its highest position and apply the brakes.
2. Unplug the power cord from the wall outlet.
3. Lift the backrest and open the electrical box by removing the rivets with a screwdriver.
4. Unscrew the screw using a #2 Robertson square screwdriver.
5. Unclip the cover using a flathead screwdriver.



6. Remove the metal support from the battery by unscrewing the two screws.



7. Remove and disconnect the battery completely.
8. Reverse the above steps to install the new battery.
9. Check all controls for proper operation before returning the bed to service.

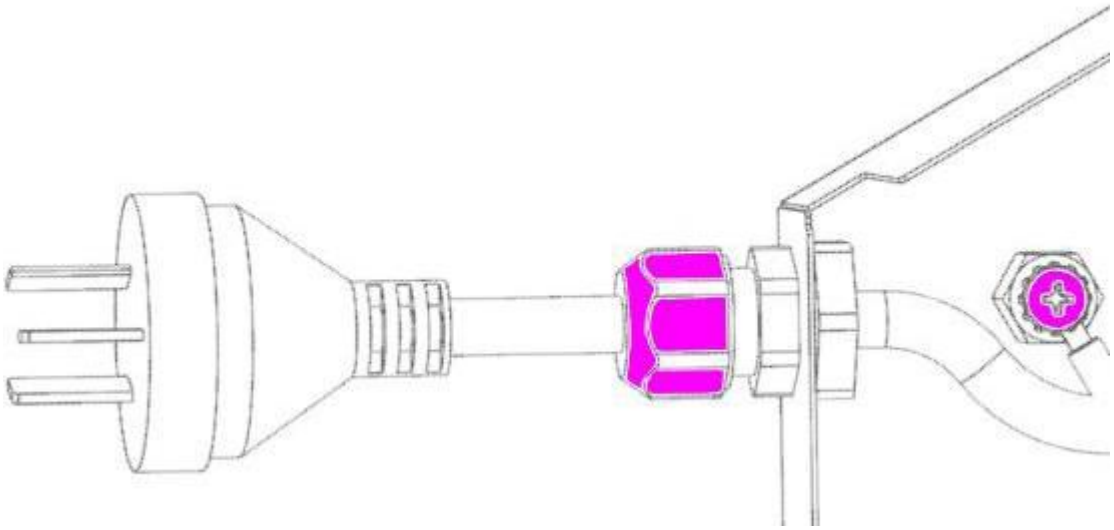
**⚠ BATTERY DISPOSAL WARNING**

- Ensure the battery is recycled at a facility designated for this purpose.

## 6.4. Replacing the power cord

Required tools:

- Robertson #2 square screwdriver
- Flat screwdriver
- Phillips #2 screwdriver
- Extractor screwdriver

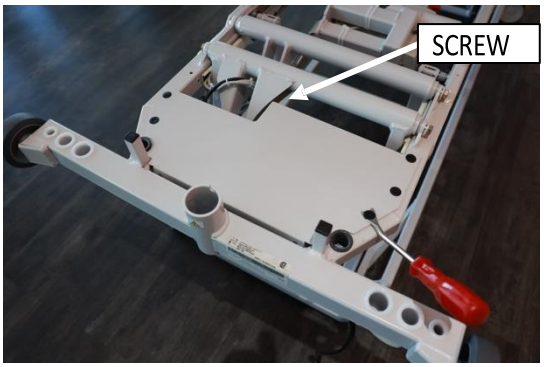


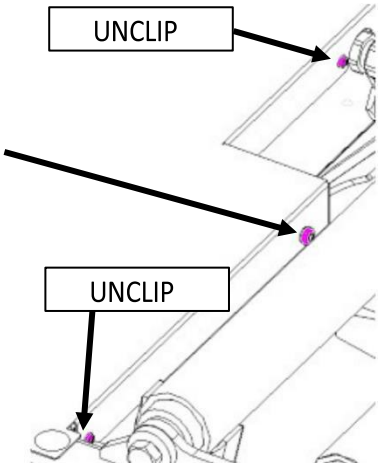
**⚠ ATTENTION! THE MAINTENANCE OF THE ELECTRICAL SYSTEM MUST ONLY BE CARRIED OUT BY QUALIFIED PERSONNEL.**

Procedure:

1. Raise the bed to its highest position and apply the brakes.
2. Unplug the power cord from the wall outlet.
3. Remove the eyelets securing the cable to the frame.
4. Unscrew the grommet.

5. Lift the backrest and open the electrical box.




6. Disconnect the white and black wires of the power cable from the junction boxes. **MAKE SURE THE BED IS UNPLUGGED BEFORE PROCEEDING.**

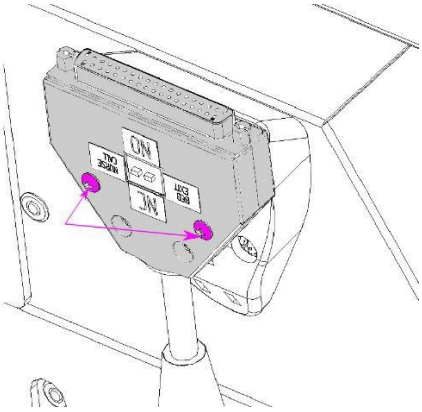


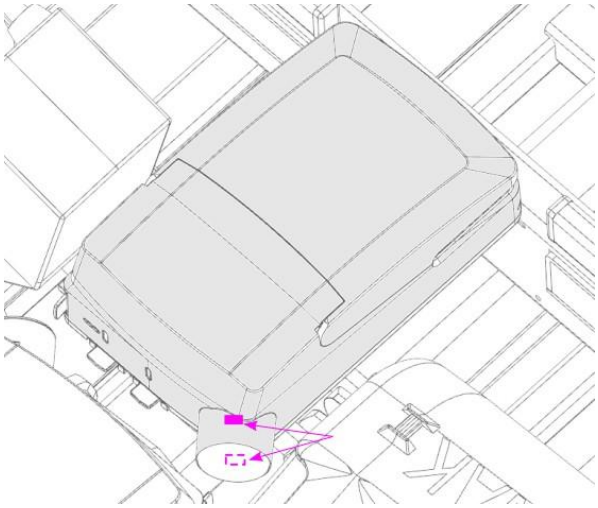
7. Disconnect the green wire from the grounding pole.
8. Remove the power cord.
9. Reverse the above steps to install the new power cord. Ensure the power cord grounding connector is placed underneath, in contact with the stud.
10. Check all controls for proper operation before returning the bed to service.

## 6.5. Replacing the nurse call port

Required tools:

- Flat screwdriver
- Cutting pliers





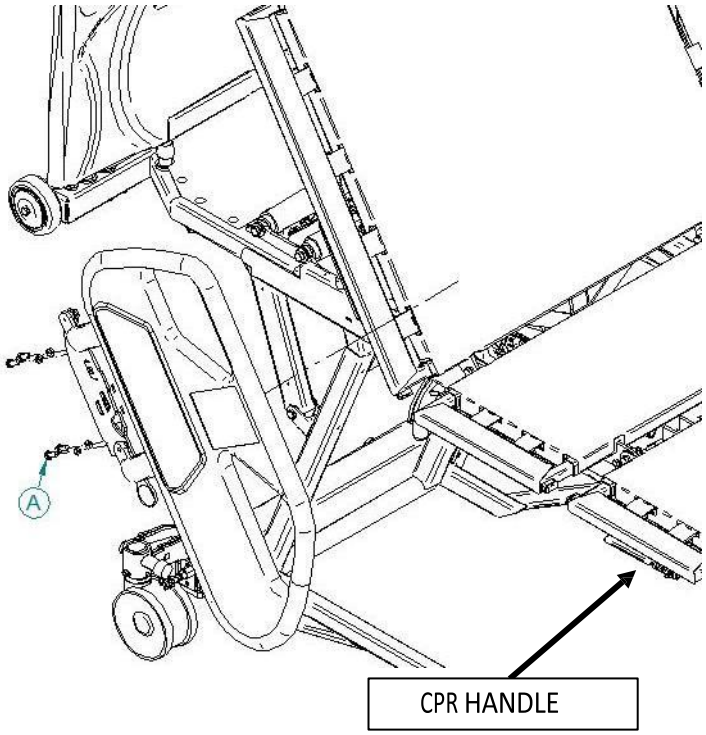
Procedure:

1. Raise the bed to its highest position and apply the brakes.
2. Unplug the power cord from the wall outlet.
3. Using wire cutters, remove the cable ties securing the nurse call connector cable to the frame.
4. Remove the two screws as shown.
5. Follow the cable and disconnect it by pressing the two locks and unplugging it.
6. Reverse the above steps to install the new nurse call connector.
7. Check all controls for proper operation before returning the bed to service.

## 6.6. Replacing the siderail assembly

Required tools:

- ½” socket
- 3/8” drive ratchet
- Cutting pliers



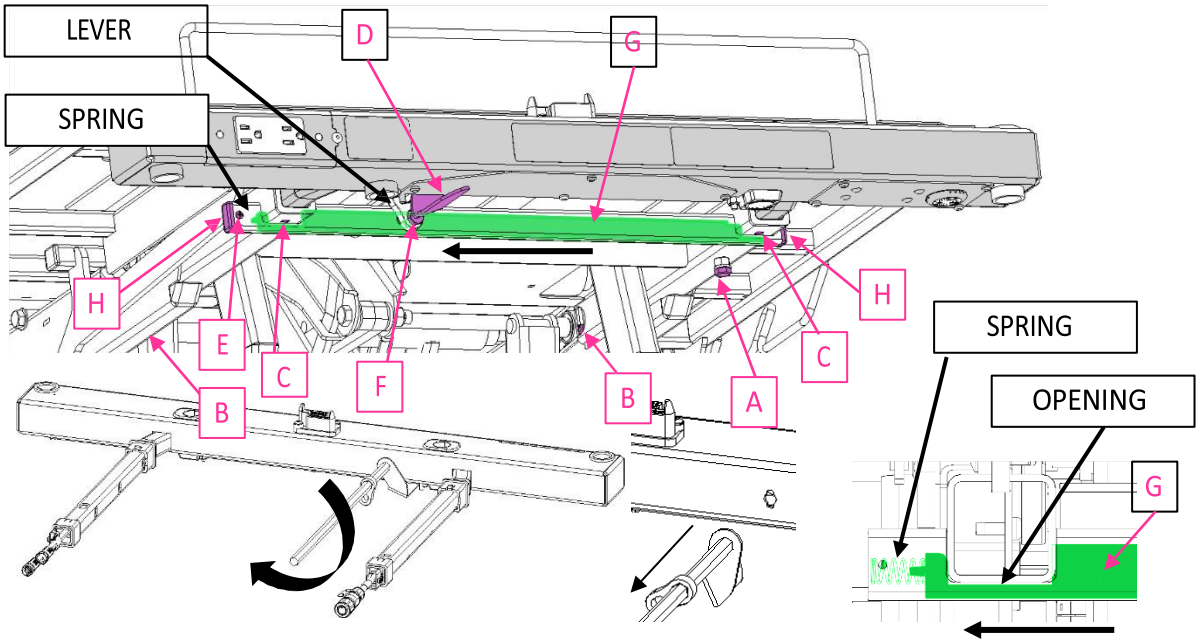

Procedure:

1. Raise the bed to its highest position and apply the brakes.
2. Raise the back section to the highest position.
   - if the controls no longer work, use the CPR handle to manually raise the back section.
3. Raise the side of the bed that needs repair.
4. Unplug the power cord from the wall outlet.
5. Follow the wire from the bed side to the junction box, remove the lock, and unplug it.
6. Using wire cutters, remove the cable ties securing the bed side cable to the chassis.
7. Using a 3/8" ratchet wrench and 1/2" socket, remove the 4 screws (A) securing the bed side assembly to the head section.
   - Support the assembly when removing the last screw to prevent it from falling.
8. Reverse the above steps to install the new bed side assembly.
9. Verify proper movement of the bed side and check the operation of all controls, including the optional nurse call function, before returning the bed to service.

## 6.7. Replacing the foot structure extension

Required tools:

- Flat screwdriver
- 1/2” wrench
- Robertson #2 square screwdriver



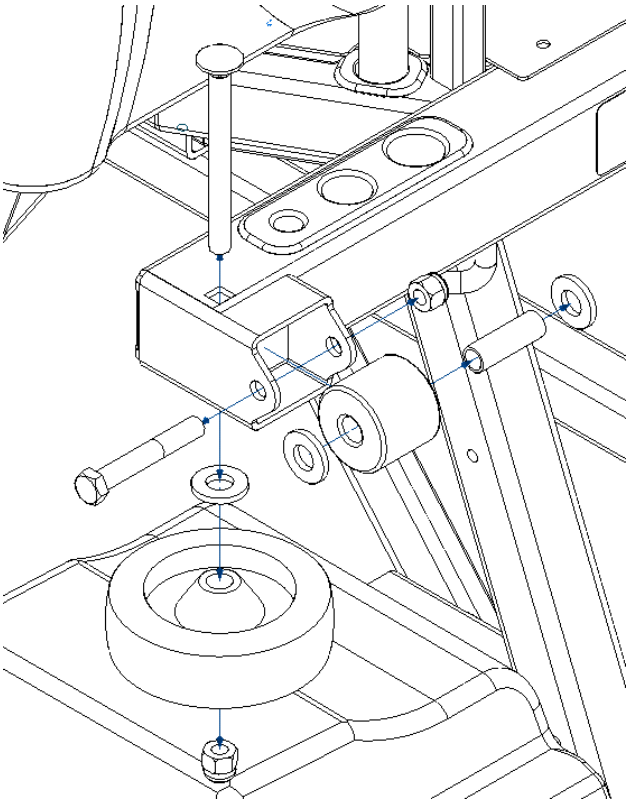

Procedure:

1. Raise the bed to its highest position and apply the brakes.
2. Raise the foot section.
3. Unplug the power cord from the wall outlet.
4. Unscrew screw (E) and remove the plastic plugs (H) using a flathead screwdriver, taking care not to lose the spring.
5. Remove screws (A) with a ½" wrench and screws (B) with a square screwdriver.
6. Disconnect the outgoing cables from the holes near the screws (B).
7. Remove screw (F) using a ½" wrench.
8. Using a flathead screwdriver, move the lock (G) towards the openings.
9. Using a flathead screwdriver, press the tabs on guide (C) and slide it out. Repeat the same operation on the other side and remove the foot extension.
10. To remove the extension, turn the latch 1/4 turn to remove it from its base.
11. Reverse the above steps to install the new foot extension, making sure the latch (D) and lever are correctly positioned.
12. Check all footboard controls for proper operation before returning the bed to service.

## 6.8. Replacing a wall bumper

Required tools:

- 9/16” combination wrench



Procedure:

5. Raise the bed to its highest position and apply the brakes.
6. Loosen nuts with a 9/16” combination wrench, then remove shock absorbers.
7. Reverse the above steps to install the new wall bumpers.

## 6.9. Replacing the bed caster

Required tools:

- 9/16” combination wrench
- #3 allen wrench
- #4 allen wrench
- #5 allen wrench
- Axle stands (2)
- ½” combination wrench
- Trim clip removal tool

Procedure:

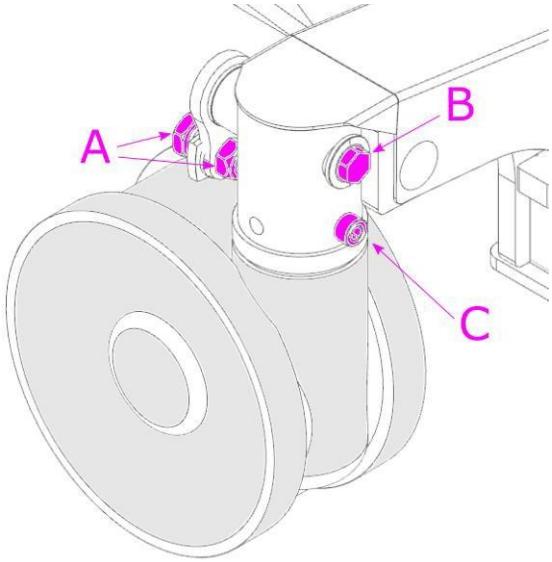
1. Raise the bed to its highest position.
2. Position the brake pedal of the casters to neutral.
3. Place axle stands under the bed frame next to the defective caster.
4. Lower the bed until the defective caster is no longer touching the ground.





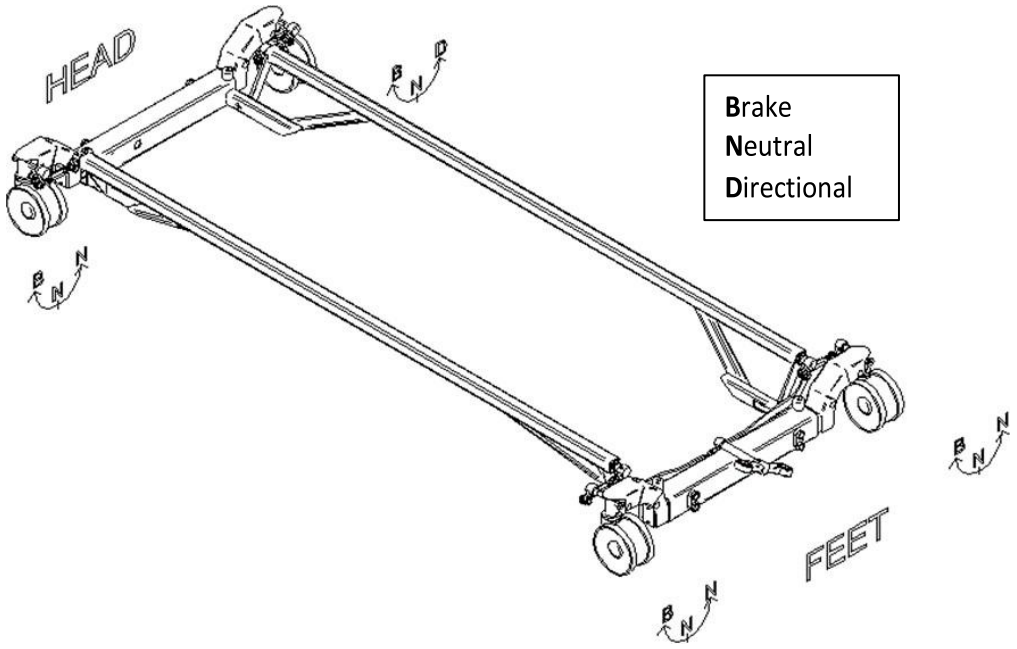







5. Unscrew the screw (A) and its nut using hexagonal keys.
6. Remove the hexagonal rod (B) by tapping on the end.
7. Unscrew the Allen screw (C) and remove the wheel.

**Notice:** *Before installing the new caster, ensure that it is correctly oriented. The illustration below demonstrates how the caster's mechanism functions.*




8. Reverse the above steps to install the new caster, ensuring it is properly aligned.
9. Verify that the new caster is functioning correctly before returning the bed to service.

**Notice:** *If the new caster does not brake correctly, there is an adjustment mechanism located under the caster that can be used for fine-tuning.*

- Use a #4 Allen Wrench to turn the adjustment screw a quarter turn at a time until the caster brakes correctly.
- Turn counterclockwise to tighten the brake.
- Turn clockwise to loosen the brake.





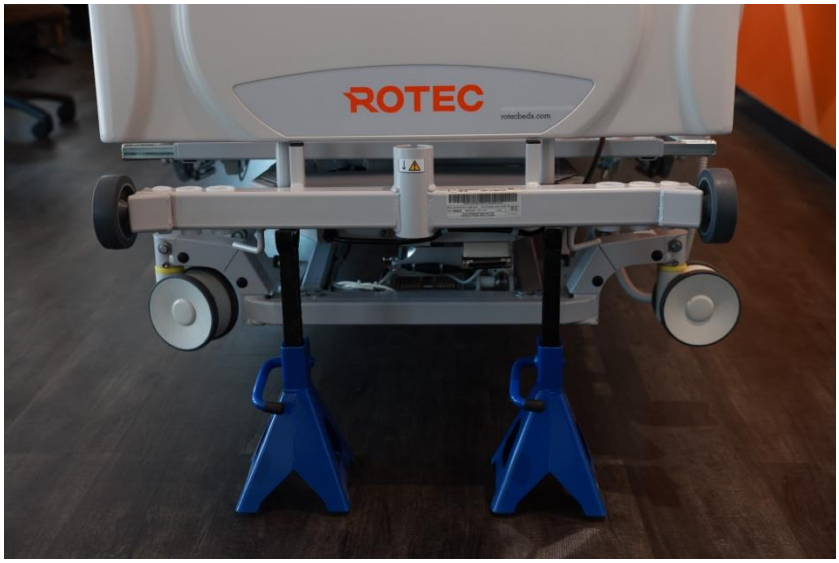
## 6.10. Replacing the load cell

Required tools:

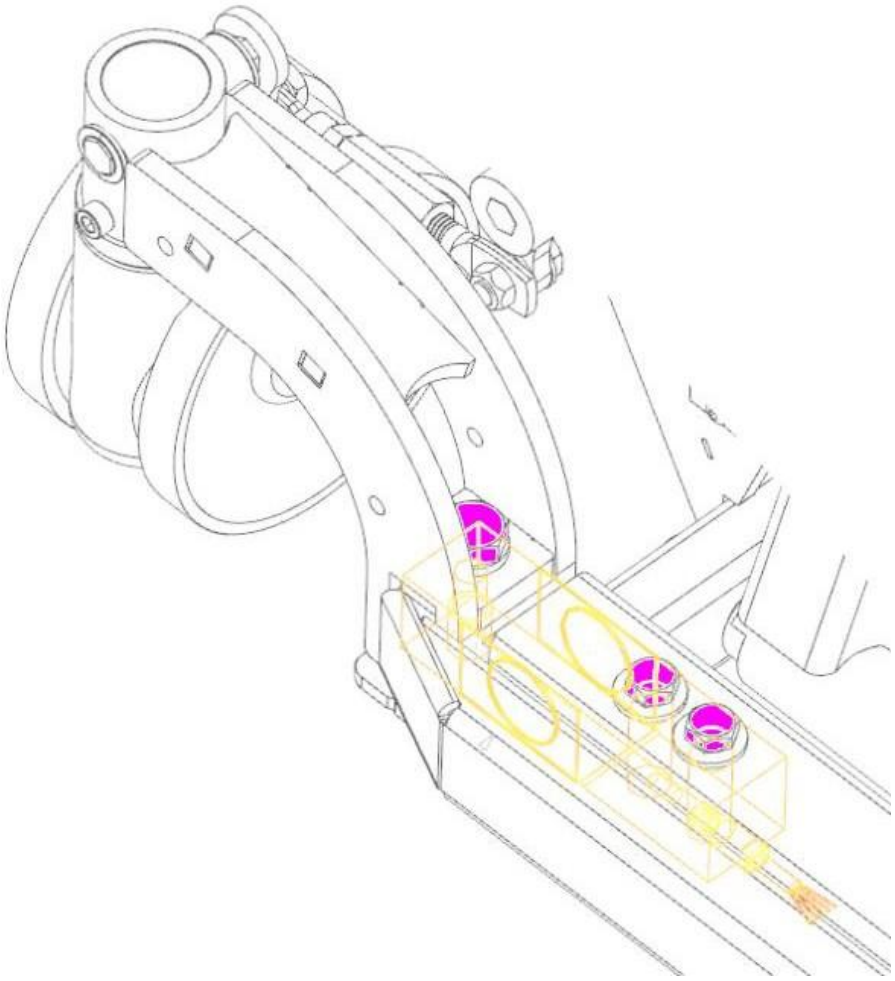
- Tools to remove the wheel (see previous section)
- Long ¾" socket and ratchet
- Wrench 9/16"
- Magnet

Procedure:

1. Unplug the power cord from the wall outlet and raise the bed to its highest position.
2. Position the brake pedal of the casters to neutral.
3. Put the axle stands under the bed frame next to the defective load cell.
4. Lower the bed until the caster of the defective load cell is no longer touching the ground.



5. Remove the bed wheel following the procedure described in the previous section.

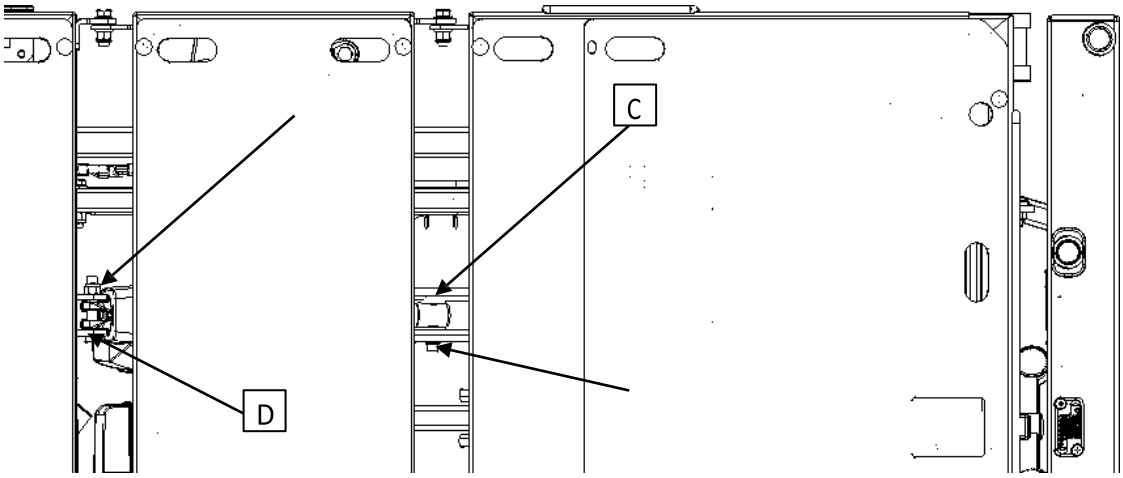


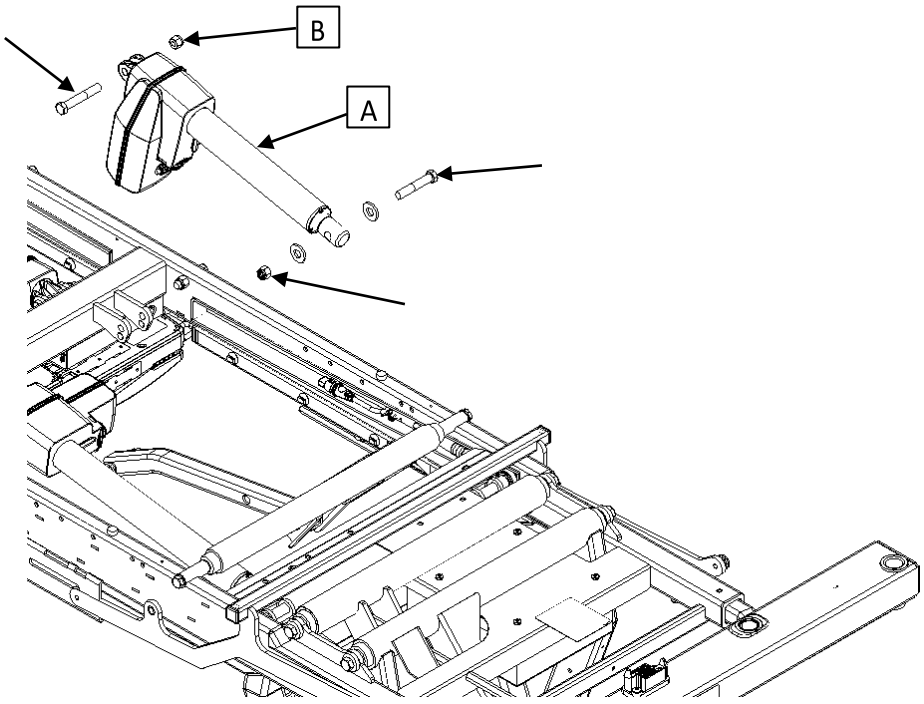
6. Remove the metal cover using a screwdriver extractor.
7. Unscrew the three (3) bolts securing the load cell.
8. Remove the plastic cover where the wires enter the axle.
9. Pull the wire from the axle out of the scale connector and disconnect it.
10. Remove the load cell, ideally using a magnet or by securing it with a sharp object.
11. Reverse the above steps to install the new load cell.
12. Verify that the new cell is functioning properly before returning the bed to service.

## 6.11. Replacing the foot section motor

Required tools:

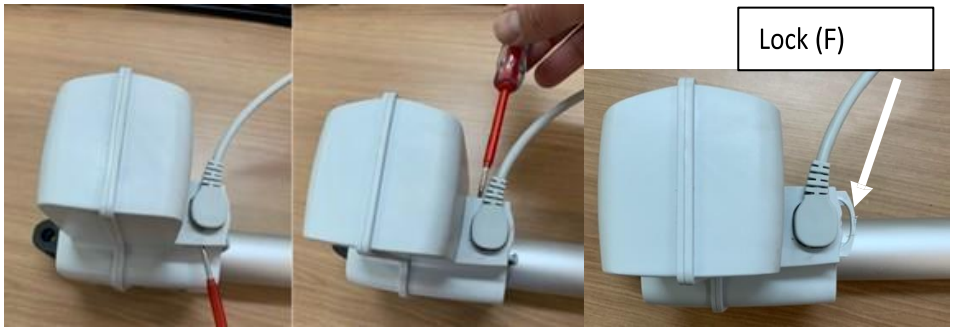
- 9/16” combination wrench
- Regular slotted screwdriver
- Cutting plier



Procedure:

1. Raise the bed to its highest position and apply the brakes.
2. Position the platforms horizontally.
3. Unplug the power cord from the wall outlet.
4. Using cutting pliers, remove the cable ties holding cables on the motor (A).
5. Unplug the cable from motor (A) by removing the locker (F) with a flathead screwdriver, pressing down on both sides.

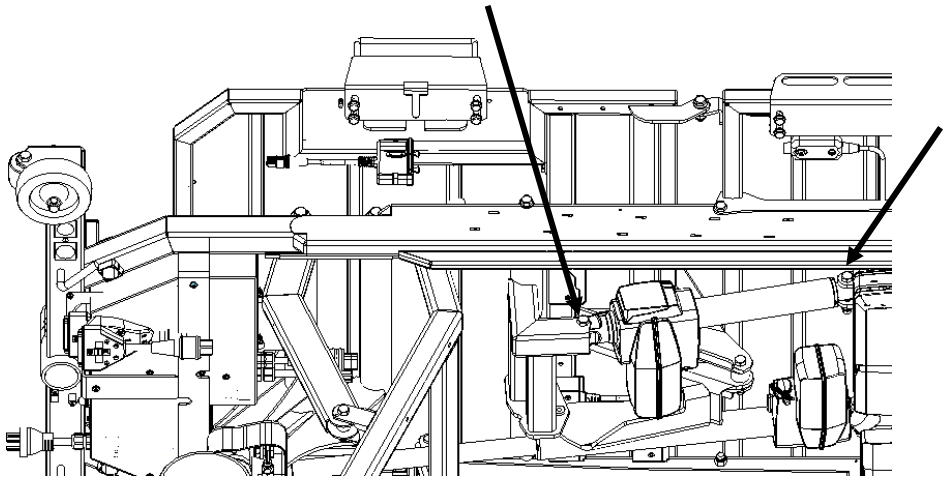


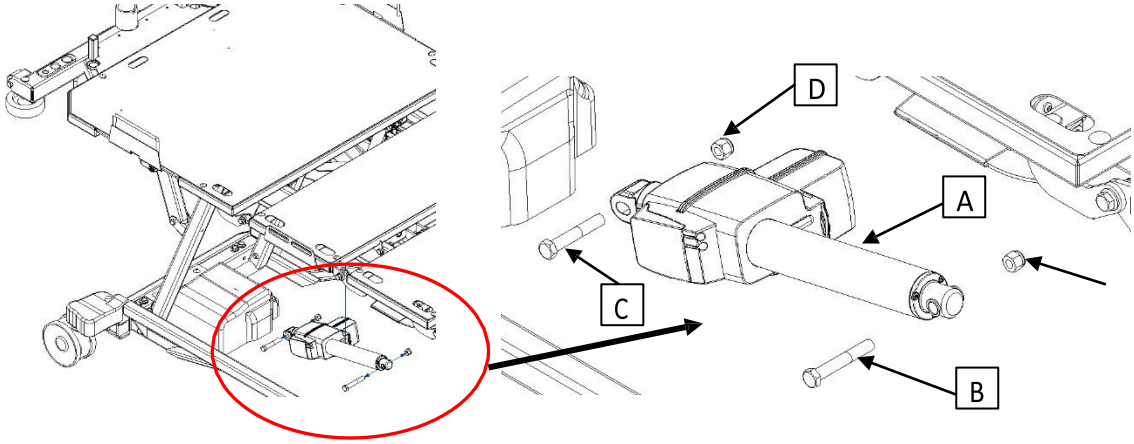

6. Using a 9/16" wrench, hold the two screws (C and D) while using another 9/16" wrench to loosen the nuts (B).
7. Reverse the above steps to install the new foot section motor.
8. Verify that the foot section motor is functioning properly before returning the bed to service.

## 6.12. Replacing the backrest motor

Required tools:

- 9/16” combination wrench
- Regular slotted screwdriver
- Cutting plier

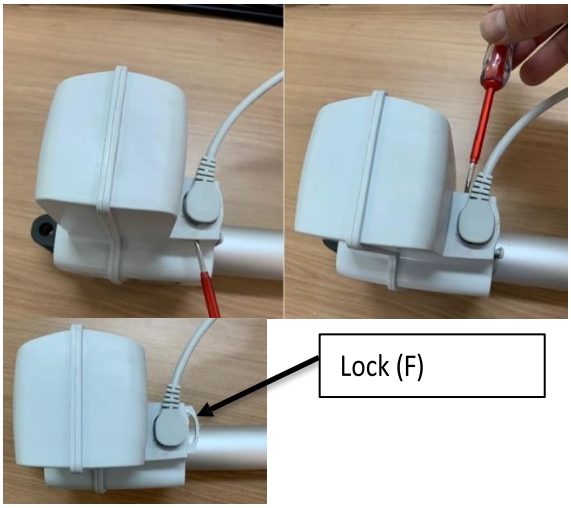





Procedure:

1. Raise the bed to its highest position and apply the brakes.
2. Raise the head section to its highest position.
3. Unplug the power cord from the wall outlet.
4. Using cutting pliers, remove the cable ties holding the cables on the motor

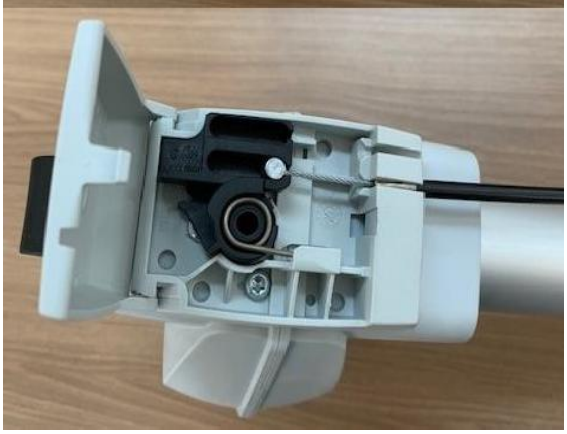
5. Unplug the cable from motor (A) by removing the locker (F) from the connector with a slotted screwdriver.



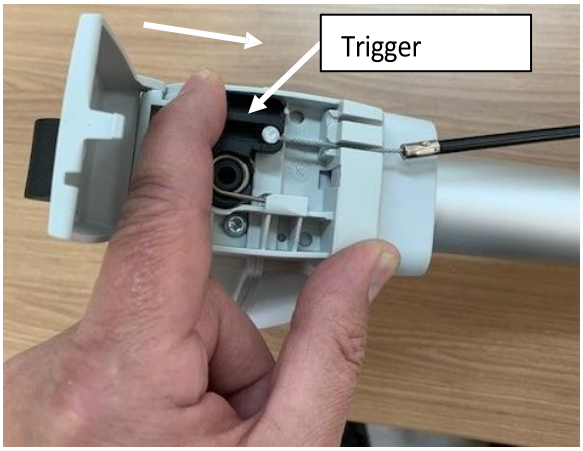

6. Using a flathead screwdriver, open the motor cover.



7. Move the shutter release and remove the cable from its base.



8. Reverse the above steps to install the new motor.

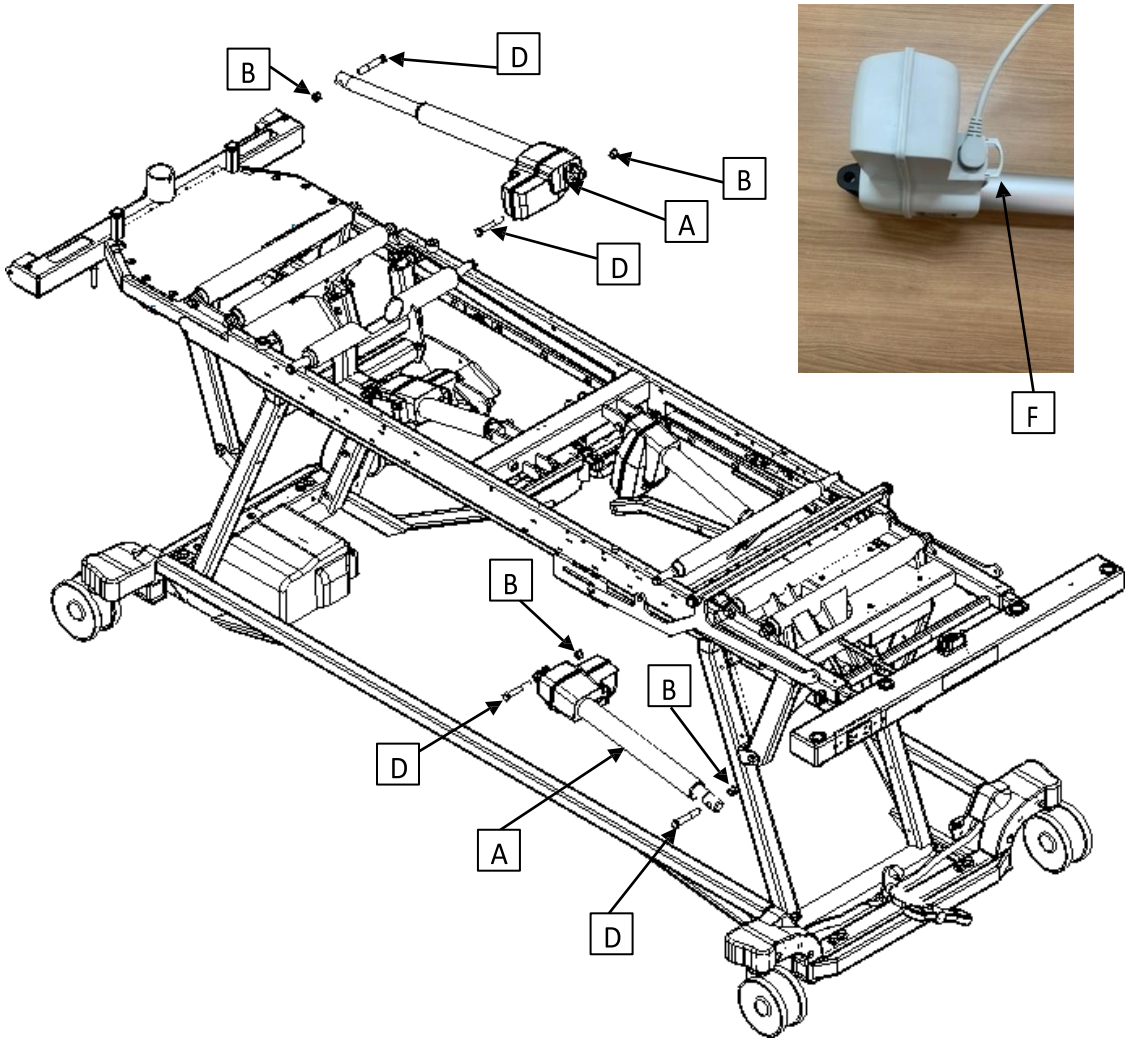



9. Verify that the new motor is functioning properly before returning the bed to service.

## 6.13. Replacing the high/low motor

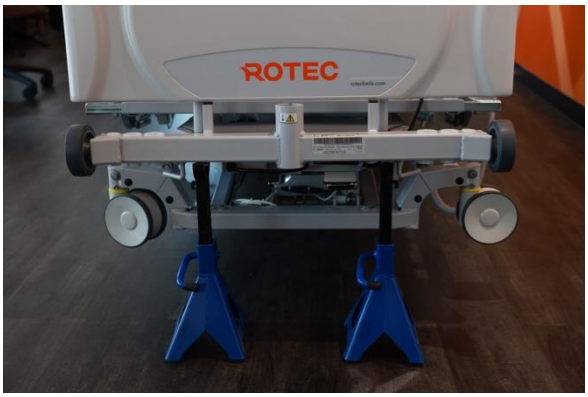
Required tools:

- 9/16” combination wrench
- Regular slotted screwdriver
- Cutting plier
- Axle stands (2)
- Trim clip removal tool

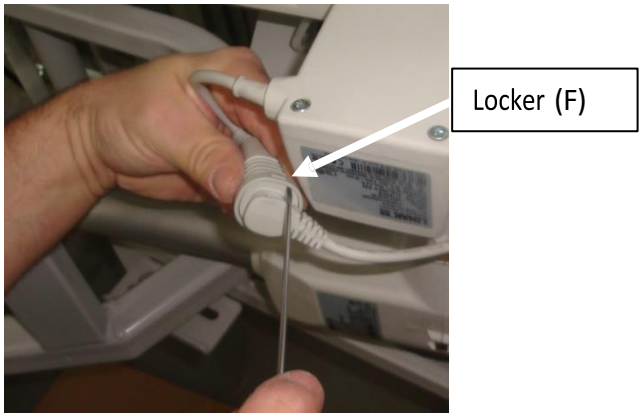



Procedure:

1. Raise the bed to its highest position and apply the brakes.
2. Place the axle to support the top frame using an axle stand.




3. Lower the side panels and raise the head section.
4. Unplug the power cord from the wall outlet.
5. Remove the seat section cover using a trim clip removal tool.
6. Using cutting pliers, remove the cable ties holding the cables on motor (A).
7. Unplug the cable from motor (A) by removing the locker (F) from the connector with a slotted screwdriver.




8. Remove Hold the screws (C and D) with a 9/16" wrench while loosening the nuts (B) with another 9/16" wrench.

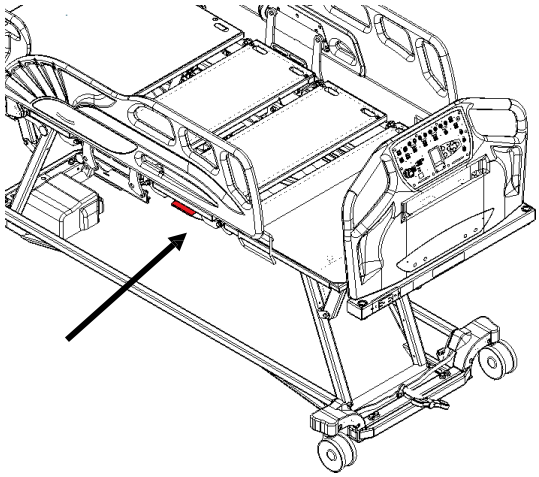
**⚠ WARNING REMOVE THE BOLTS CAREFULLY. THE BASE FRAME WILL GO DOWN. HOLD IT**

9. Reverse the above steps to install the new motor into the high/low mechanism.
10. Verify that the new motor is functioning properly before returning the bed to service.

## 6.14. Replacing the CPR handle

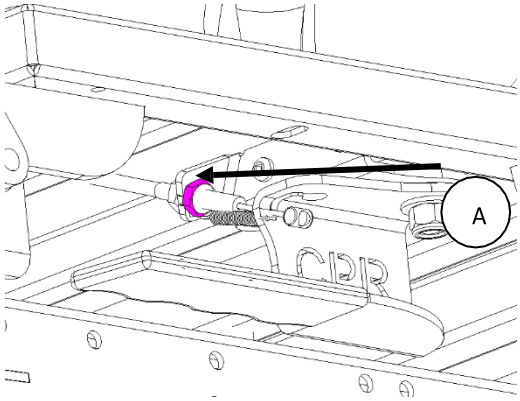
Required tools:

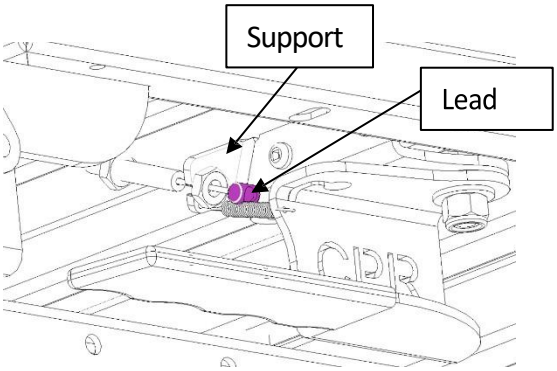
- #2 Robertson screwdriver
- 9/16” combination wrench



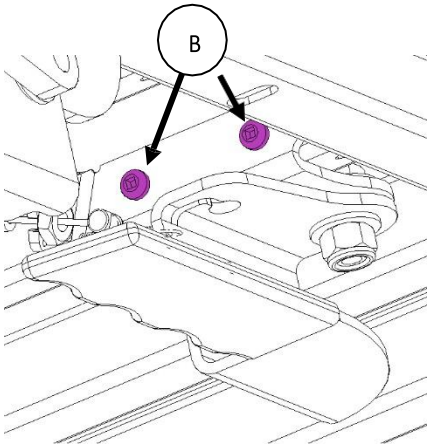
Procedure:

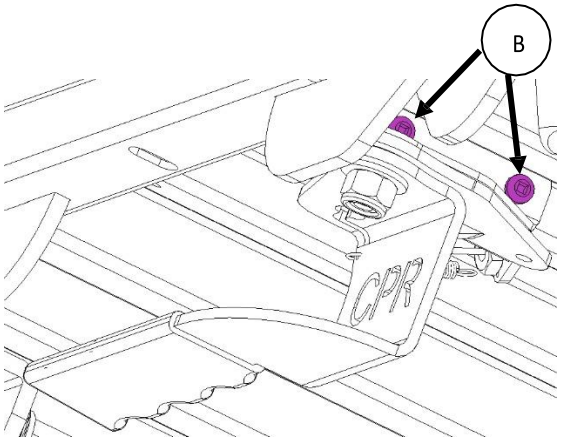
1. Raise the bed to its highest position and apply the brakes.
2. Unplug the power cord from the wall outlet.
3. Locate the CPR handle.




4. Loosen locknut (A) using a 7/16" wrench.
5. Disengage the cable from the support and detach the lead from the handle, then remove the cable.
6. Unscrew the four screws (B) with a Robertson screwdriver and remove the handle.
7. Reverse the above steps to secure the new handle in place.
8. Verify that the CPR function is functioning properly before returning the bed to service.

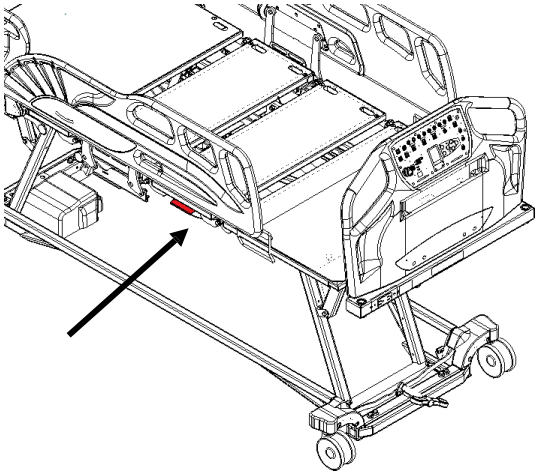


## 6.15. Replacing the CPR control cable

Required tools:

- 7/16” Combination wrench



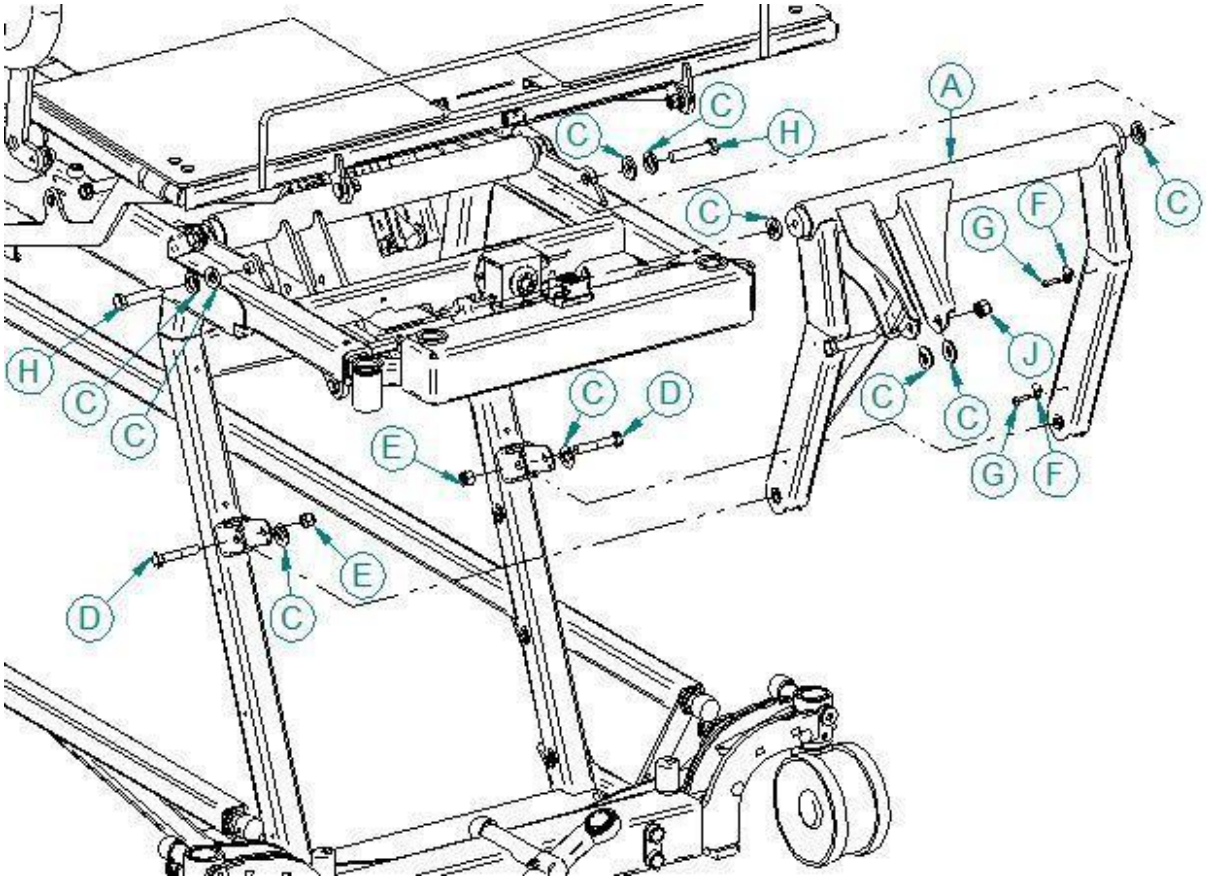
Procedure:

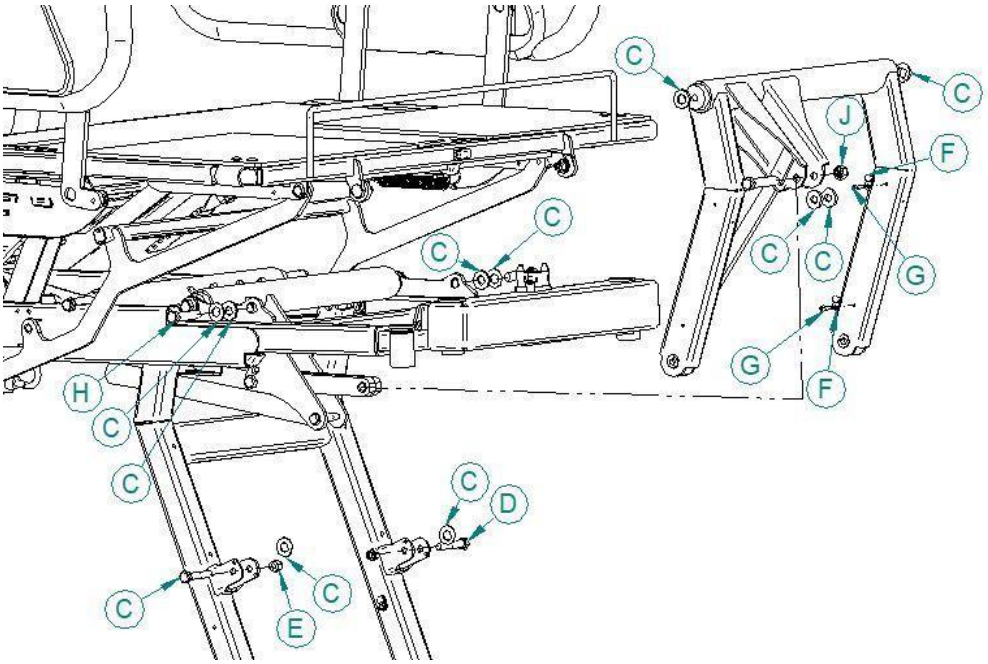
1. Raise the bed to its highest position and apply the brakes.
2. Unplug the power cord from the wall outlet.
3. Locate the CPR handle.
4. Using a 7/16’’ combination wrench, loosen the locknut (A).
5. Disconnect the cable from the support and detach the lead from the handle, then remove the cable.
6. For the instruction about removing and installing the other end of the control cable, see the section 6.12.
7. Reverse the steps above to install the new control cable to the upper leg section.
8. Verify the CPR function is functioning properly before returning the bed back to service.

## 6.16. Replacing the foot lift frame motor

Required tools:

- 9/16” combination wrench
- #2 Robertson screwdriver
- Axle stands (2)
- 3/8” drive ratchet
- 9/16” socket
- 5/8” socket
- 5/8” combination wrench






Procedure:

1. Raise bed to its highest position and apply the brakes.
2. Extend the top frame extension.
3. Place axle stands under the top frame extension and lower the frame onto the axle stands until the high/low mechanism begins raising the casters.




4. Lift the foot section platform.
5. Unplug the power cord from the wall outlet.

6. Remove the screws (G) from the plastic eyelets (F) holding cables to the bed frame with a #2 Robertson screwdriver.
7. Using a 5/8" wrench, hold screw (H) while loosening nuts (J) with a ratchet wrench and an 11/16" socket. This disconnects the lifting frame section from the power link (I). Retain all parts and note the position of the nylon washers (K).
8. Using a 9/16" wrench, hold screw (D) while loosening nuts (E) with a ratchet wrench and a 9/16" socket. This disconnects the elevation frame section from the elevation arm. Retain all parts and note the position of the nylon washers (C).

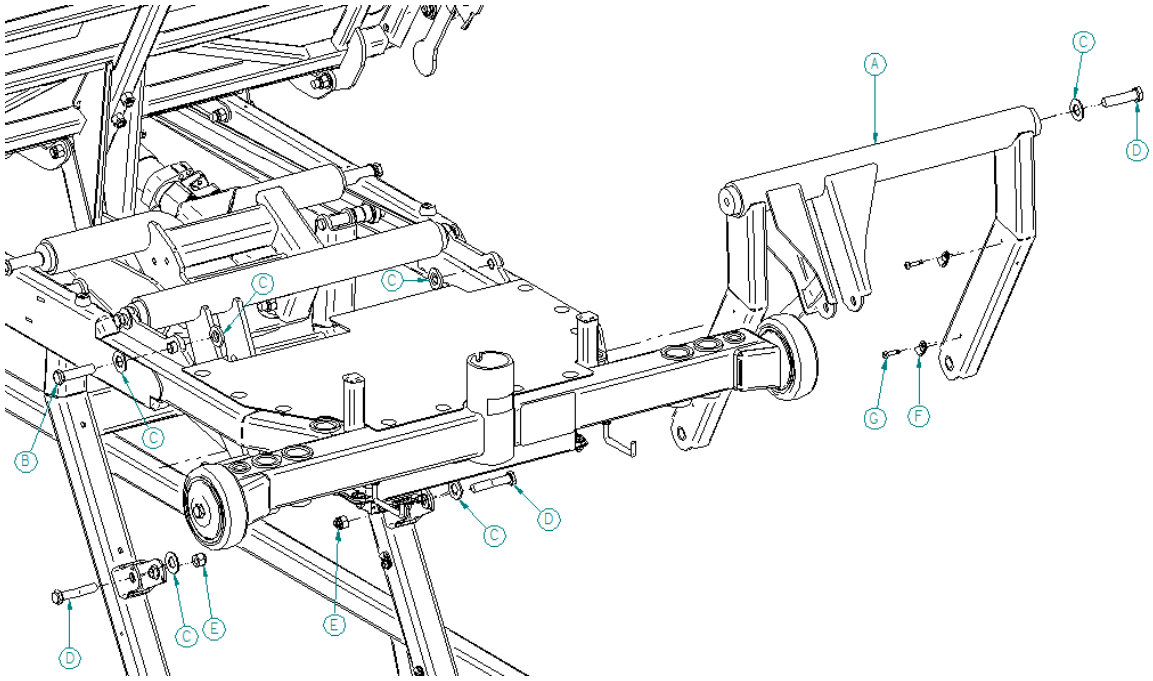
**⚠ WARNING REMOVE THE BOLTS CAREFULLY. THE BASE FRAME WILL GO DOWN. HOLD IT**

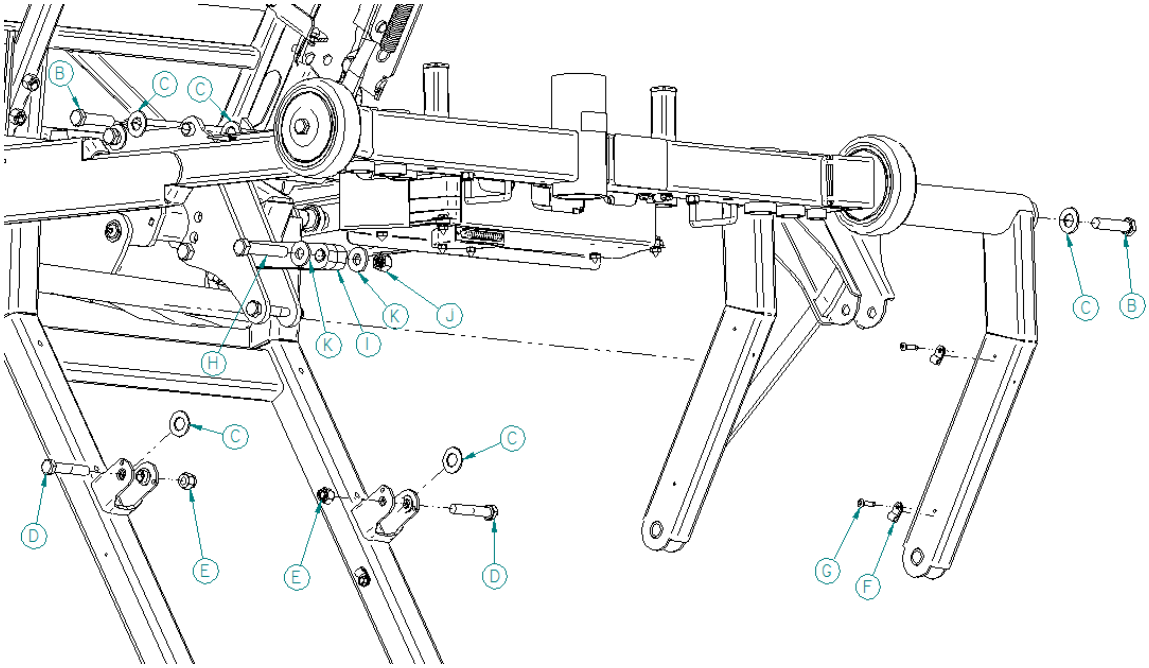
9. Using a ratchet wrench and a 5/8" socket, loosen screws (B) connecting the elevation frame section to the upper frame, then remove the assembly. Support the assembly while removing the last screw and note the position of the nylon washers (C).
10. Reverse the above steps to install the new foot section.
11. Verify that the high/low mechanism is functioning properly before returning the bed to service.

## 6.17. Replacing the head lift frame motor

Required tools:

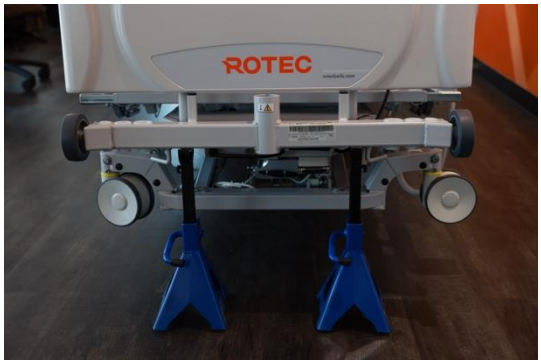
- 9/16” combination wrench
- #2 Robertson screwdriver
- Axle stands (2)
- 3/8” drive ratchet
- 9/16” socket
- 5/8” socket
- 5/8” combination wrench






Procedure:

1. Raise bed to its highest position and apply the brakes.
2. Place the axle stands under the top frame, then lower the frame onto the axle stands until the high/low mechanism begins raising the casters.




3. Lift the backrest section platform.
4. Unplug the power cord from the wall outlet.
5. Remove the screws (G) from the plastic eyelets (F) holding cables to the bed frame using a #2 Robertson screwdriver.
6. Using a 5/8" wrench, hold screw (H) while loosening nuts (J) with a ratchet wrench and an 11/16" socket. This disconnects the lifting frame section from the power link (I). Retain all parts and note the location of the nylon washers (K).
7. Using a 9/16" wrench, hold screw (D) while loosening nuts (E) with a ratchet wrench and a 9/16" socket. This disconnects the elevation frame section from the elevation arm. Retain all parts and note the location of the nylon washers (C).

**⚠ WARNING REMOVE THE BOLTS CAREFULLY.**
**THE BASE FRAME WILL GO DOWN. HOLD IT CARFULLY.**

8. Using a ratchet wrench and a 5/8" socket, loosen screws (B) connecting the elevation frame section to the upper frame, then remove the assembly. Support the assembly while removing the last screw and note the position of the nylon washers (C).
9. Reverse the above steps to install the new base frame.
10. Verify that high/low mechanism is functioning properly before returning the bed to service.

# 7. TECHNICAL DRAWINGS

The following pages include the technical drawings relevant to this specific bed model.

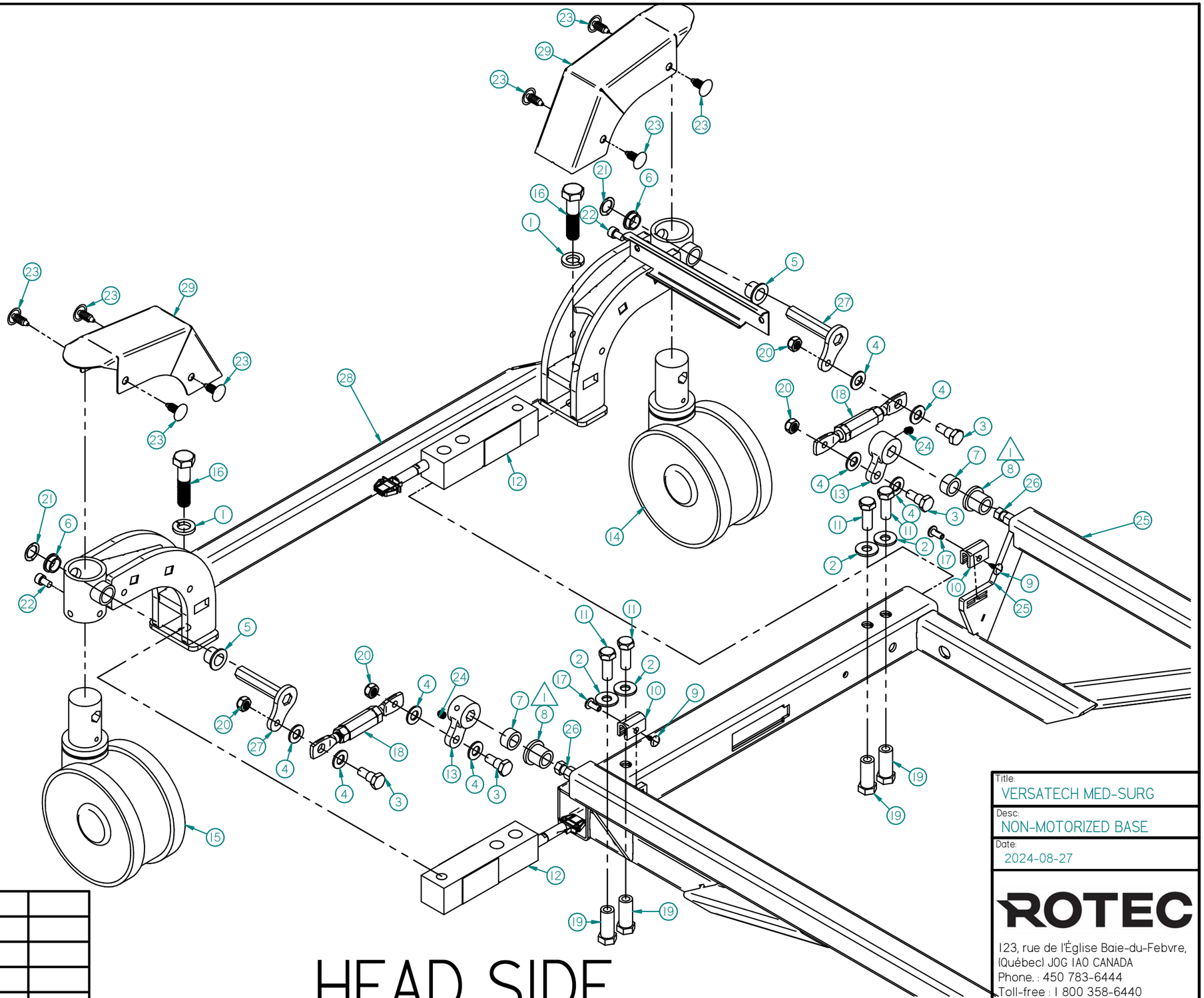
**TECHNICAL ASSISTANCE AND PARTS**

- info@rotecbeds.com
- 1-450-783-6444
- 1-450-783-6446

123 rue de l'Église, Baie-du-Febvre, QC J0G 1A0 Canada

Publication : 2026-08-25

| N° | # Parts | Title | Description | Qty |
|---|---|---|---|---|
| 1 | 111-000-006 | LOCK WASHER | LOCK WASHER 1/2" | 2 |
| 2 | 111-100-002 | FLAT WASHER | 5/16 I.D. 3/8 O.D. 7/81 | 4 |
| 3 | 111-111-001 | HEXAGONAL BOLT | Bolt 2 step 5/16-18 shoulder .375 | 4 |
| 4 | 111-133-002 | FLAT WASHER | .750"OD x .390"ID x .062"Th | 8 |
| 5 | 111-133-007 | SHOULDER BUSHING | BRONZE BUSHING Ø 1/2" | 2 |
| 6 | 111-133-007COUP | SHOULDER BUSHING | BRONZE BUSHING Ø .510" | 2 |
| 7 | 111-133-028 | SPACER | NYLON SPACER .750X.510X.375 | 2 |
| 8 | 111-133-051 | SHOULDER BUSHING | SHOULDER BUSHING Ø 0,504"x , 740"x,125" | 2 |
| 9 | 111-244-055 | BARBED CAPS | 7/16" LG. | 2 |
| 10 | 111-322-013 | STOPPER | EDGE TRIM | 2 |
| 11 | 111-400-002 | HEX.BOLT | 3/8"-16 X 1" LG. | 4 |
| 12 | 111-401-028 | BASE FRAME LOADCELL | ELECTRONIC ASSEMBLY | 2 |
| 13 | 111-411-015 | LEVER | HEXAGONAL GRIP LEVER | 2 |
| 14 | 111-411-034 | WHEEL | DIRECTIONAL WHEEL WITH BREAK Ø5" | 1 |
| 15 | 111-411-035 | WHEEL | DIRECTIONAL WHEEL Ø5" | 1 |
| 16 | 111-525-043 | HEXAGONAL BOLT | M12 x 1.75 x 50mm LG. | 2 |
| 17 | 111-526-016 | BARREL | 1/2" LG. | 2 |
| 18 | 111-528-006-ASS2 | TURN BUCKLE | MECHANICAL ASSEMBLY | 2 |
| 19 | 111-555-041 | BOLT SCALE | 5/8" HEXAGONAL ROD | 4 |
| 20 | 111-777-016 | DISTORTED THREAD HEX. LOCKNUT | 5/16"-18 | 4 |
| 21 | 111-777-023 | EXTERNAL PUSH RING | O.D. 0.750 X I.D. 0.500 X 0.025 TH. | 2 |
| 22 | 111-888-028 | BOLT | SOCKET HEAD M6X1.0 X 10 MM" | 2 |
| 23 | 111-901-018 | RIVET | PLASTIC RIVET | 8 |
| 24 | 111-999-037 | KNURLED CUP SET SCREW | M6 X 8mm | 2 |
| 25 | AU021 | BED BASE WITHOUT MOTORIZATION | WELDED ASSEMBLY | 1 |
| 26 | FJ004 | BREAK ROD ENHANCED | WELDED ASSEMBLY | 2 |
| 27 | FJ010 | BRAKE PIVOT | WELDED ASSEMBLY | 2 |
| 28 | HA107 | HORN STRUCTURE | WELDED ASSEMBLY | 1 |
| 29 | LAZCOV017 | HORN COVER | PLATE 18 GA (0.048") | 2 |



# HEAD SIDE

*Design as per Usine Rotec inc. standards

| REV: | DATE : | DESCRIPTION : | PREPARED BY | CHECKED BY |
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| 1 | 2025-11-10 | REMOVE 2X 111-133-023 AND ADDED 2X 111-133-051 | A.ROY | K.P. |

Title: VERSATECH MED-SURG

Desc: NON-MOTORIZED BASE

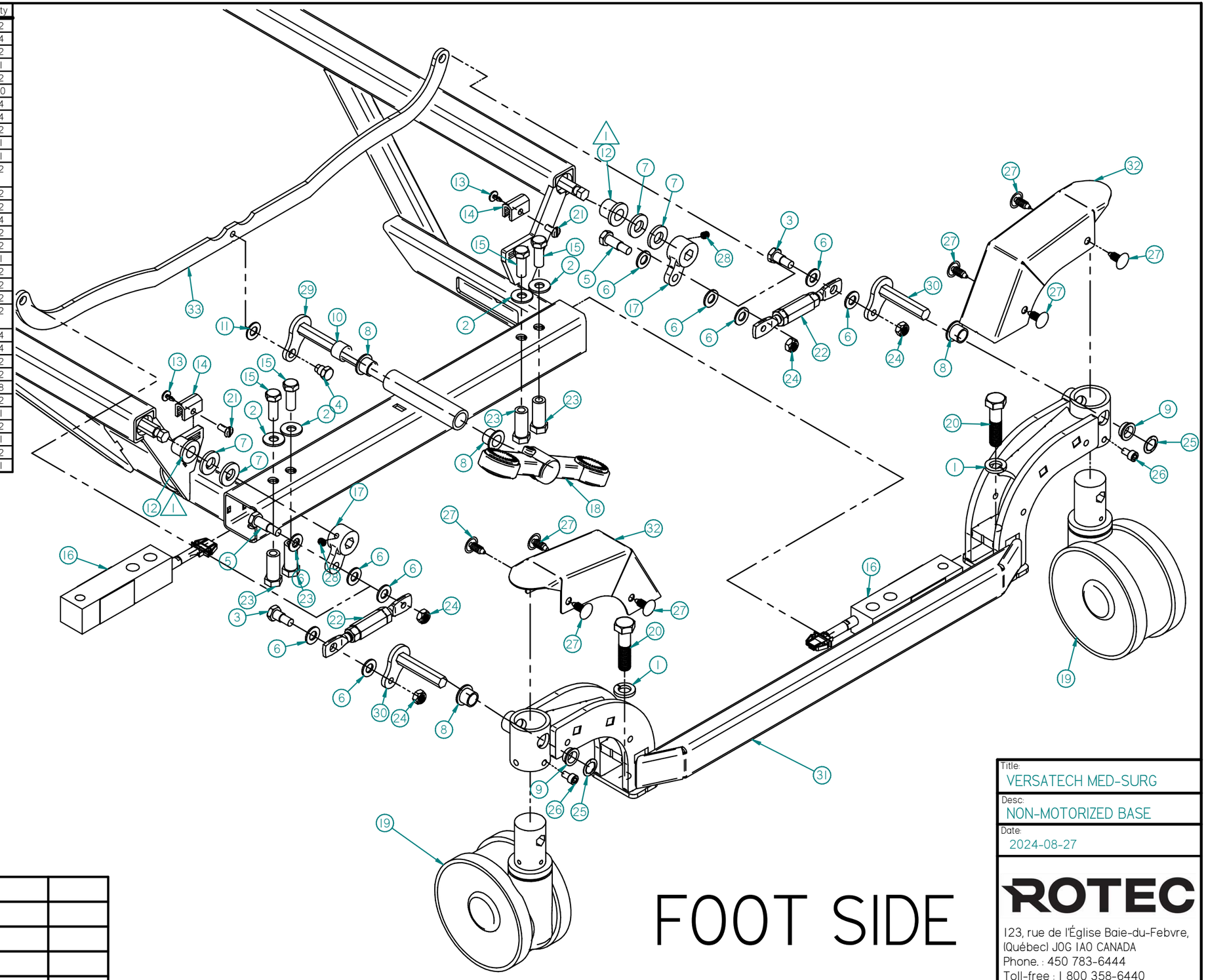
Date: 2024-08-27

ROTEC

123, rue de l'Église Baie-du-Febvre,
(Québec) J0G 1A0 CANADA
Phone. : 450 783-6444
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| N° | # Parts | Title | Description | Qty |
|---|---|---|---|---|
| 1 | 111-000-006 | LOCK WASHER | LOCK WASHER 1/2" | 2 |
| 2 | 111-100-002 | FLAT WASHER | 5/16 I.D. 3/8 O.D. 7/81 | 4 |
| 3 | 111-111-001 | HEXAGONAL BOLT | Bolt 2 step 5/16-18 shoulder .375 | 2 |
| 4 | 111-111-002 | HEXAGONAL BOLT | HEX BOLT 2 STEP 5/16-18 x .250 | 1 |
| 5 | 111-111-004 | HEXAGONAL BOLT | Bolt 2 step 5/16-18 shoulder .688 | 2 |
| 6 | 111-133-002 | FLAT WASHER | .750"OD x .390"ID x .062"Th | 10 |
| 7 | 111-133-003 | FLAT WASHER | I.D. 1/2"X O.D.1" x 1/8" TH. | 4 |
| 8 | 111-133-007 | SHOULDER BUSHING | BRONZE BUSHING Ø 1/2" | 4 |
| 9 | 111-133-007COUP | SHOULDER BUSHING | BRONZE BUSHING Ø .510" | 2 |
| 10 | 111-133-029 | SPACER | NYLON SPACER .683X.505 X .500 | 1 |
| 11 | 111-133-046 | WASHER | WASHER .750 OD. X .390 ID X .050 | 1 |
| 12 | 111-133-051 | SHOULDER BUSHING | SHOULDER BUSHING Ø 0,504"x ,740"x, 125" | 2 |
| 13 | 111-244-055 | BARBED CAPS | 7/16" LG. | 2 |
| 14 | 111-322-013 | STOPPER | EDGE TRIM | 2 |
| 15 | 111-400-002 | HEX.BOLT | 3/8"-16 X 1" LG. | 4 |
| 16 | 111-401-028 | BASE FRAME LOADCELL | ELECTRONIC ASSEMBLY | 2 |
| 17 | 111-411-015 | LEVER | HEXAGONAL GRIP LEVER | 2 |
| 18 | 111-411-026-ASS | BRAKE PEDAL ASSEMBLY | PRE-ASSEMBLY | 1 |
| 19 | 111-411-035 | WHEEL | DIRECTIONAL WHEEL Ø5" | 2 |
| 20 | 111-525-043 | HEXAGONAL BOLT | M12 x 1.75 x 50mm LG. | 2 |
| 21 | 111-526-016 | BARREL | 1/2" LG. | 2 |
| 22 | 111-528-006-ASS 2 | TURN BUCKLE | MECHANICAL ASSEMBLY | 2 |
| 23 | 111-555-041 | BOLT SCALE | 5/8" HEXAGONAL ROD | 4 |
| 24 | 111-777-016 | DISTORTED THREAD HEX. LOCKNUT | 5/16"-18 | 4 |
| 25 | 111-777-023 | EXTERNAL PUSH RING | O.D. 0.750 X I.D. 0.500 X 0.025 TH. | 2 |
| 26 | 111-888-028 | BOLT | SOCKET HEAD M6X1.0 X 10 MM" | 2 |
| 27 | 111-901-018 | RIVET | PLASTIC RIVET | 8 |
| 28 | 111-999-037 | KNURLED CUP SET SCREW | M6 X 8mm | 2 |
| 29 | FJ009 | BRAKE PIVOT | WELDED ASSEMBLY | 1 |
| 30 | FJ010 | BRAKE PIVOT | WELDED ASSEMBLY | 2 |
| 31 | HA107 | HORN STRUCTURE | WELDED ASSEMBLY | 1 |
| 32 | LAZCOV017 | HORN COVER | PLATE 18 GA (0.048") | 2 |
| 33 | LAZLEV003 | TRANSFER ARM | LAZLEV003 BASIC MATERIAL | 1 |



# FOOT SIDE

| REV: | DATE : | DESCRIPTION : | PREPARED BY | CHECKED BY |
|---|---|---|---|---|
| 1 | 2025-11-10 | REMOVE 2X 111-133-023 AND ADDED 2X 111-133-051 | A.ROY | K.P. |

*Design as per Usine Rotec inc. standards*

Title: VERSATECH MED-SURG

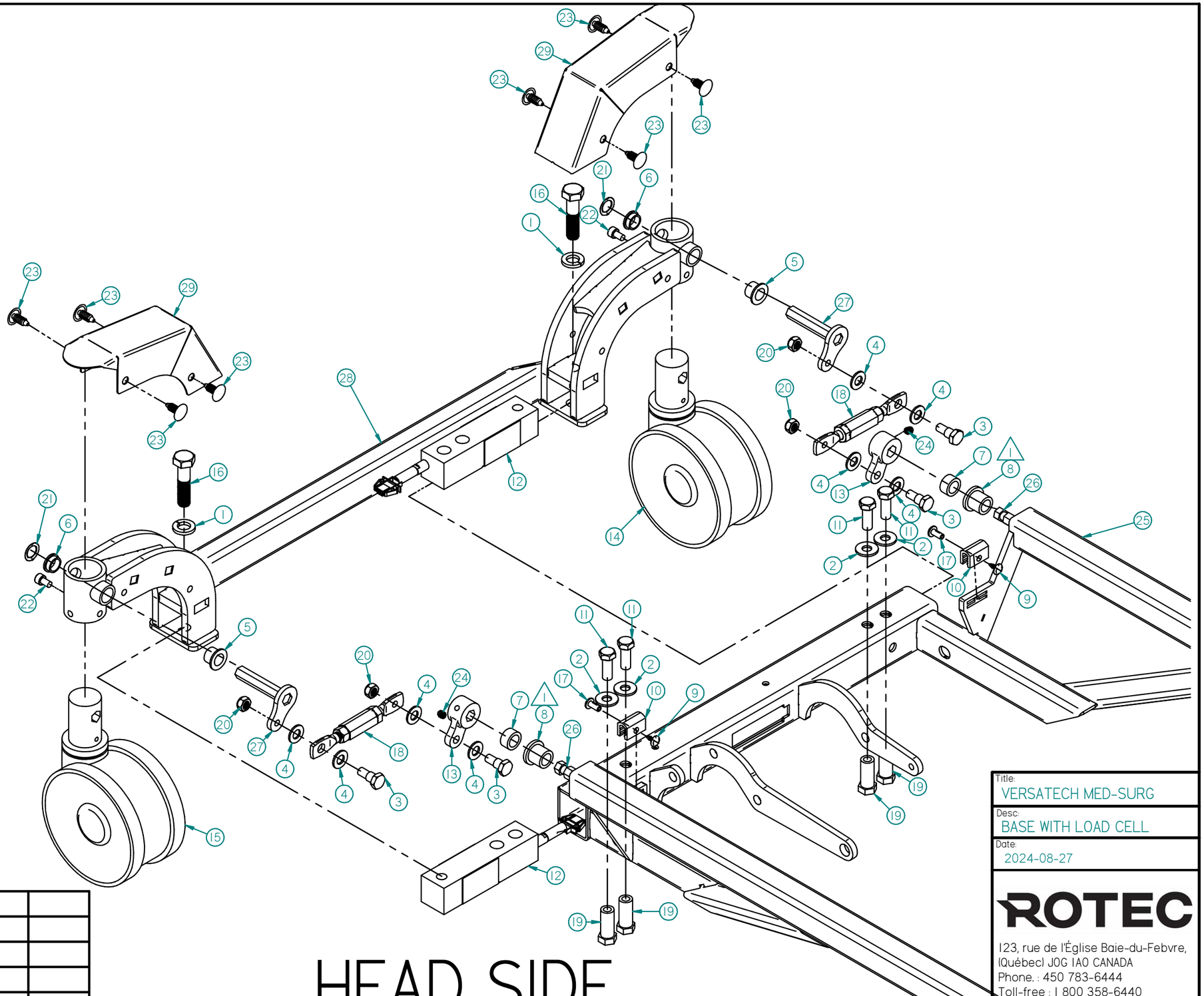
Desc: NON-MOTORIZED BASE

Date: 2024-08-27

ROTEC
123, rue de l'Église Baie-du-Febvre,
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Phone. : 450 783-6444
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| N° | # Parts | Title | Description | Qty |
|---|---|---|---|---|
| 1 | 111-000-006 | LOCK WASHER | LOCK WASHER 1/2" | 2 |
| 2 | 111-100-002 | FLAT WASHER | 5/16 I.D. 3/8 O.D. 7/81 | 4 |
| 3 | 111-111-001 | HEXAGONAL BOLT | Bolt 2 step 5/16-18 shoulder .375 | 4 |
| 4 | 111-133-002 | FLAT WASHER | .750"OD x .390"ID x .062"Th | 8 |
| 5 | 111-133-007 | SHOULDER BUSHING | BRONZE BUSHING Ø 1/2" | 2 |
| 6 | 111-133-007COUP | SHOULDER BUSHING | BRONZE BUSHING Ø .510" | 2 |
| 7 | 111-133-028 | SPACER | NYLON SPACER .750X.510X.375 | 2 |
| 8 | 111-133-051 | SHOULDER BUSHING | SHOULDER BUSHING Ø 0,504"x , 740"x,125" | 2 |
| 9 | 111-244-055 | BARBED CAPS | 7/16" LG. | 2 |
| 10 | 111-322-013 | STOPPER | EDGE TRIM | 2 |
| 11 | 111-400-002 | HEX.BOLT | 3/8"-16 X 1" LG. | 4 |
| 12 | 111-401-028 | BASE FRAME LOADCELL | ELECTRONIC ASSEMBLY | 2 |
| 13 | 111-411-015 | LEVER | HEXAGONAL GRIP LEVER | 2 |
| 14 | 111-411-034 | WHEEL | DIRECTIONAL WHEEL WITH BREAK Ø5" | 1 |
| 15 | 111-411-035 | WHEEL | DIRECTIONAL WHEEL Ø5" | 1 |
| 16 | 111-525-043 | HEXAGONAL BOLT | M12 x 1.75 x 50mm LG. | 2 |
| 17 | 111-526-016 | BARREL | 1/2" LG. | 2 |
| 18 | 111-528-006-ASS2 | TURN BUCKLE | MECHANICAL ASSEMBLY | 2 |
| 19 | 111-555-041 | BOLT SCALE | 5/8" HEXAGONAL ROD | 4 |
| 20 | 111-777-016 | DISTORTED THREAD HEX. LOCKNUT | 5/16"-18 | 4 |
| 21 | 111-777-023 | EXTERNAL PUSH RING | O.D. 0.750 X I.D. 0.500 X 0.025 TH. | 2 |
| 22 | 111-888-028 | BOLT | SOCKET HEAD M6X1.0 X 10 MM" | 2 |
| 23 | 111-901-018 | RIVET | PLASTIC RIVET | 8 |
| 24 | 111-999-037 | KNURLED CUP SET SCREW | M6 X 8mm | 2 |
| 25 | AU020 | BED BASE | WELDED ASSEMBLY | 1 |
| 26 | FJ004 | BREAK ROD ENHANCED | WELDED ASSEMBLY | 2 |
| 27 | FJ010 | BRAKE PIVOT | WELDED ASSEMBLY | 2 |
| 28 | HA107 | HORN STRUCTURE | WELDED ASSEMBLY | 1 |
| 29 | LAZCOV017 | HORN COVER | PLATE 18 GA (0.048") | 2 |



# HEAD SIDE

*Design as per Usine Rotec inc. standards

| REV: | DATE : | DESCRIPTION : | PREPARED BY | CHECKED BY |
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| 1 | 2025-11-10 | REMOVE 2X 111-133-023 AND ADDED 2X 111-133-051 | A.ROY | K.P. |

Title: VERSATECH MED-SURG

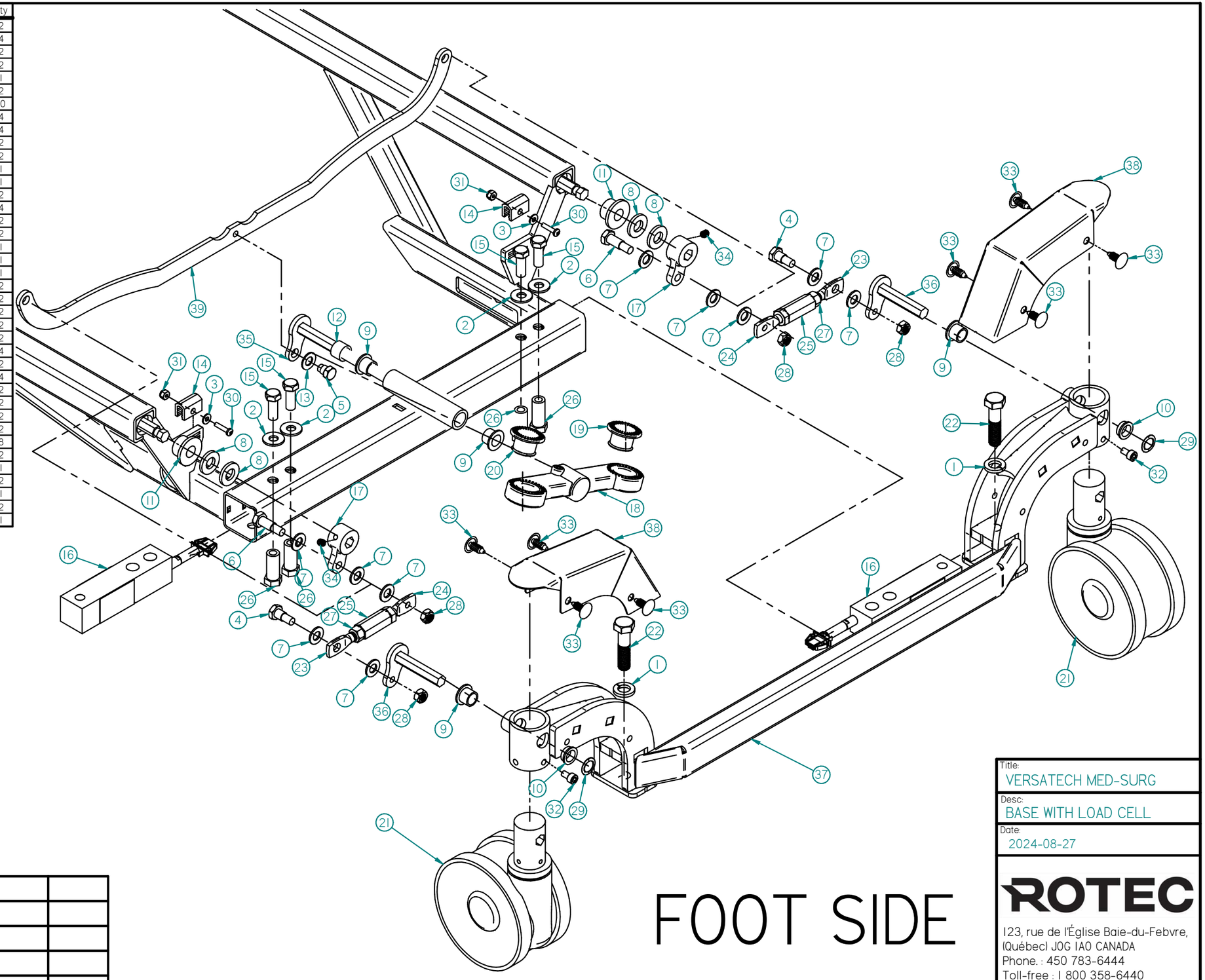
Desc: BASE WITH LOAD CELL

Date: 2024-08-27

ROTEC
123, rue de l'Église Baie-du-Febvre,
(Québec) J0G 1A0 CANADA
Phone. : 450 783-6444
Toll-free : 1 800 358-6440
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| N° | # Parts | Title | Description | Qty |
|---|---|---|---|---|
| 1 | 111-000-006 | LOCK WASHER | LOCK WASHER 1/2" | 2 |
| 2 | 111-100-002 | FLAT WASHER | 5/16 I.D. 3/8 O.D. 7/81 | 4 |
| 3 | 111-100-012 | FLAT WASHER | FLAT WASHER no.8 3/16 X 7/16" | 2 |
| 4 | 111-111-001 | HEXAGONAL BOLT | Bolt 2 step 5/16-18 shoulder .375 | 2 |
| 5 | 111-111-002 | HEXAGONAL BOLT | HEX BOLT 2 STEP 5/16-18 x .250 | 1 |
| 6 | 111-111-004 | HEXAGONAL BOLT | Bolt 2 step 5/16-18 shoulder .688 | 2 |
| 7 | 111-133-002 | FLAT WASHER | .750"OD x .390"ID x .062"Th | 10 |
| 8 | 111-133-003 | FLAT WASHER | I.D. 1/2"X O.D.1" x 1/8" TH. | 4 |
| 9 | 111-133-007 | SHOULDER BUSHING | BRONZE BUSHING Ø 1/2" | 4 |
| 10 | 111-133-007COUP | SHOULDER BUSHING | BRONZE BUSHING Ø .510" | 2 |
| 11 | 111-133-023 | SHOULDER BUSHING | SHOULDER BUSHING Ø 1/2" | 2 |
| 12 | 111-133-029 | SPACER | NYLON SPACER .683X.505 X .500 | 1 |
| 13 | 111-133-046 | WASHER | WASHER .750 OD. X .390 ID X .050 | 1 |
| 14 | 111-322-013 | STOPPER | EDGE TRIM | 2 |
| 15 | 111-400-002 | HEXBOLT | 3/8"-16 X 1" LG. | 4 |
| 16 | 111-401-028 | BASE FRAME LOADCELL | ELECTRONIC ASSEMBLY | 2 |
| 17 | 111-411-015 | LEVER | HEXAGONAL GRIP LEVER | 2 |
| 18 | 111-411-026 | PEDAL | PEDAL | 1 |
| 19 | 111-411-027 | CAP | RED CAP | 1 |
| 20 | 111-411-028 | CAP | GREEN CAP | 1 |
| 21 | 111-411-035 | WHEEL | DIRECTIONAL WHEEL Ø5" | 2 |
| 22 | 111-525-043 | HEXAGONAL BOLT | M12 x 1.75 x 50mm LG. | 2 |
| 23 | 111-528-006PER | ANCHOR SCREW | 3/8"-16 X 2-1/4" | 2 |
| 24 | 111-528-006TAR | ANCHOR SCREW | 3/8"-16 X 2-1/4" | 2 |
| 25 | 111-528-007 | COUPLING NUT | 3/8"-16 X 1-3/4" LG. | 2 |
| 26 | 111-555-041 | BOLT SCALE | 5/8" HEXAGONAL ROD | 4 |
| 27 | 111-777-003 | HEXAGONAL NUT | 3/8"-16 UNC | 2 |
| 28 | 111-777-016 | DISTORTED THREAD HEX. LOCKNUT | 5/16"-18 | 4 |
| 29 | 111-777-023 | EXTERNAL PUSH RING | O.D. 0.750 X I.D. 0.500 X 0.025 TH. | 2 |
| 30 | 111-888-010 | PAN BOLT SQUARE | #8-32 X 3/4" | 2 |
| 31 | 111-888-020 | NYLON LOCKNUT | 8-32 | 2 |
| 32 | 111-888-028 | BOLT | SOCKET HEAD M6X1.0 X 10 MM" | 2 |
| 33 | 111-901-018 | RIVET | PLASTIC RIVET | 8 |
| 34 | 111-999-037 | KNURLED CUP SET SCREW | M6 X 8mm | 2 |
| 35 | FJ009 | BRAKE PIVOT | WELDED ASSEMBLY | 1 |
| 36 | FJ010 | BRAKE PIVOT | WELDED ASSEMBLY | 2 |
| 37 | HA107 | HORN STRUCTURE | WELDED ASSEMBLY | 1 |
| 38 | LAZCOV017 | HORN COVER | PLATE 18 GA (0.048") | 2 |
| 39 | LAZLEV003 | TRANSFER ARM | LAZLEV003 BASIC MATERIAL | 1 |



# FOOT SIDE

**Design as per Usine Rotec inc. standards*

| REV: | DATE : | DESCRIPTION : | PREPARED BY | CHECKED BY |
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Title: VERSATECH MED-SURG

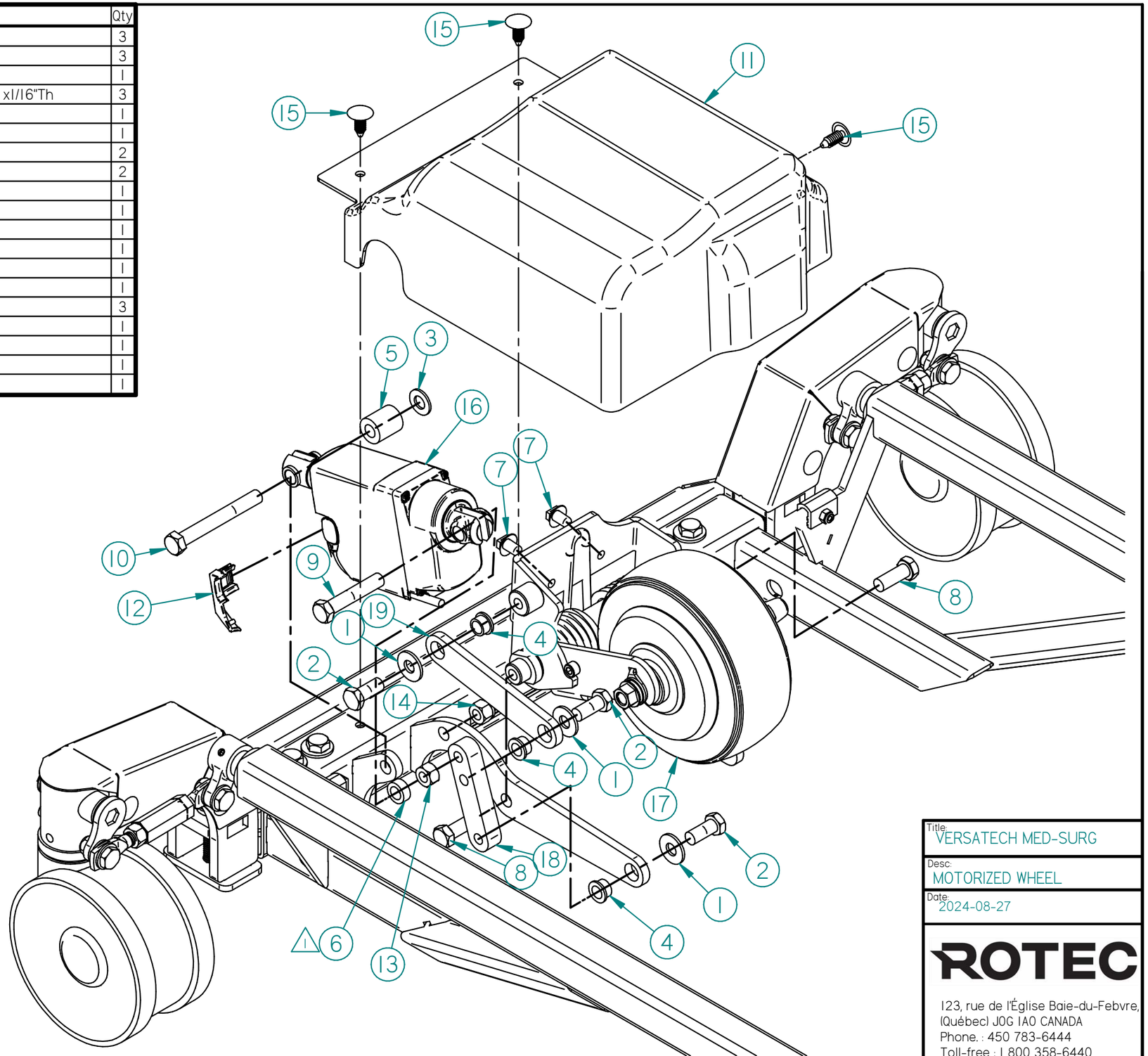
Desc: BASE WITH LOAD CELL

Date: 2024-08-27

ROTEC
123, rue de l'Église Baie-du-Febvre,
(Québec) J0G 1A0 CANADA
Phone. : 450 783-6444
Toll-free : 1 800 358-6440
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| N° | # Parts | Title | Description | Qty |
|---|---|---|---|---|
| 1 | 111-100-002 | FLAT WASHER | 5/16 (I.D. 3/8 O.D. 7/8) | 3 |
| 2 | 111-111-003 | HEXAGONAL BOLT | BOLT 3/8-16 VIGER | 3 |
| 3 | 111-133-002 | FLAT WASHER | .750"OD x .390"ID x .062"Th | 1 |
| 4 | 111-133-009 | SHOULDER WAHSER | 3/8"IDx1/2"ODx1/4"Lg / FL5/8"OD x1/16"Th | 3 |
| 5 | 111-133-049 | SPACER | Ø 3/4" | 1 |
| 6 | 111-133-050 | SPACER | O.D. .625" X I.D. .380" X .250" LG. | 1 |
| 7 | 111-244-054 | PUSH UMBRELLA MOUNT | Ø 1/4" | 2 |
| 8 | 111-400-002 | HEX.BOLT | 3/8"-16 X 1" LG. | 2 |
| 9 | 111-400-008 | HEXAGONAL BOLT | 3/8"-16 X 2" LG. | 1 |
| 10 | 111-400-009 | HEXAGONAL BOLT | 3/8"-16 x 3" LG. | 1 |
| 11 | 111-531-015 | MOTORIZED WHEEL COVER | BLOW MOLDING 0.098" | 1 |
| 12 | 111-655-062 | LOCK | LA23 CABLE LOCK | 1 |
| 13 | 111-777-003 | HEXAGONAL NUT | 3/8"-16 UNC | 1 |
| 14 | 111-888-003 | HEX. NYLON-INSERT LOCKNUT | 3/8"-16 UNC | 1 |
| 15 | 111-901-018 | RIVET | PLASTIC RIVET | 3 |
| 16 | 300-903-046 | MOTOR | LA23 | 1 |
| 17 | AS031-ASS | WHEEL ASSEMBLY | MECHANICAL PRE-ASSEMBLY | 1 |
| 18 | LAZ105 | LINK | 1/2" PLATE | 1 |
| 19 | LAZPLA048 | LINK | 1/4" PLATE | 1 |




*Design as per Usine Rotec inc. standards

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| 1 | 2025-02-12 | REPLACE IX LAZWAS004 BY IX 111-133-050 | A.ROY | K.P. |
| REV: | DATE : | DESCRIPTION : | PREPARED BY | CHECKED BY |

Title: VERSATECH MED-SURG

Desc: MOTORIZED WHEEL

Date: 2024-08-27

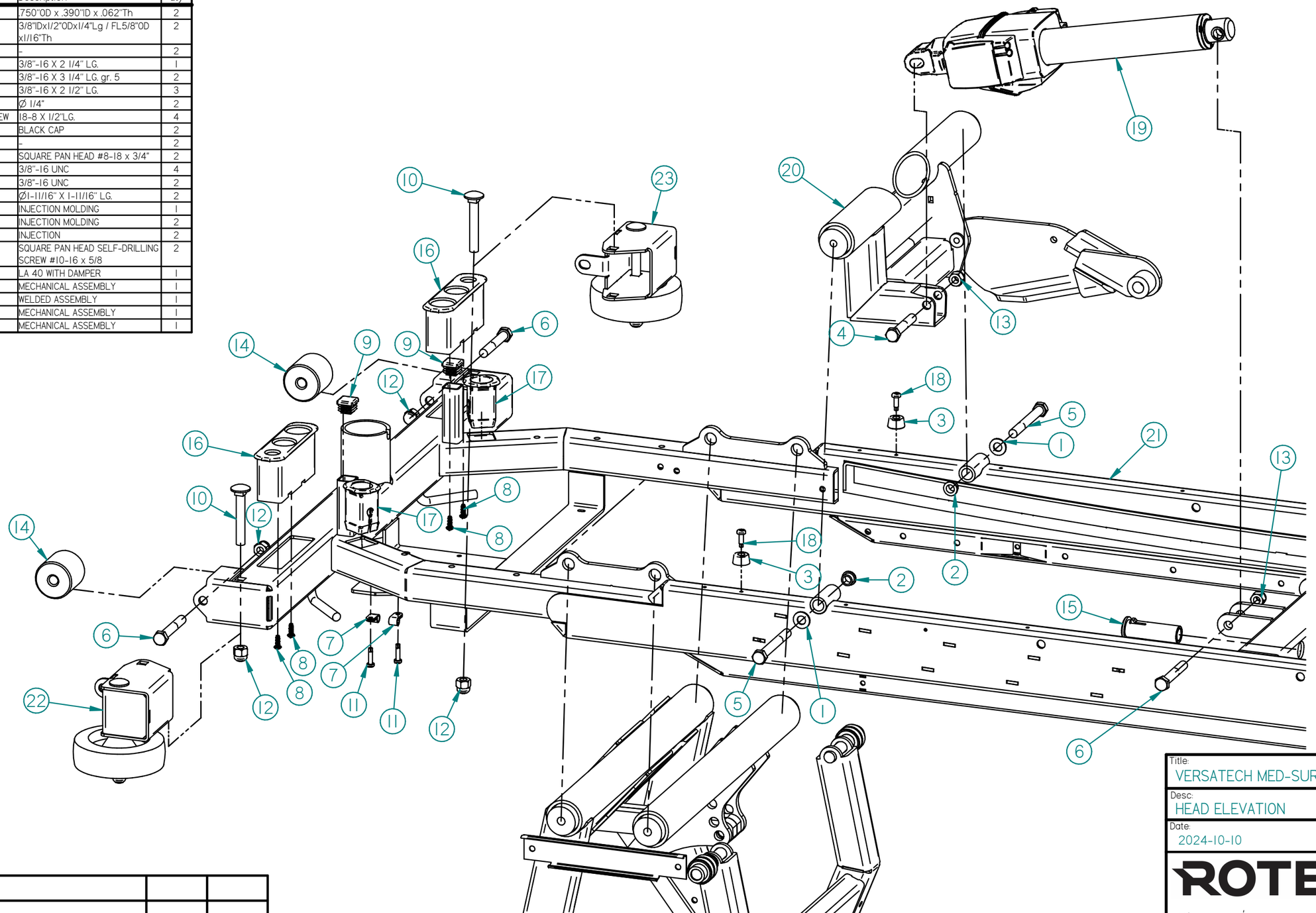

ROTEC

123, rue de l'Église Baie-du-Febvre,
(Québec) J0G 1A0 CANADA
Phone. : 450 783-6444
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| N° | # Parts | Title | Description | Qty |
|---|---|---|---|---|
| 1 | 111-133-002 | FLAT WASHER | .750"OD x .390"ID x .062"Th | 2 |
| 2 | 111-133-009 | SHOULDER WAHSER | 3/8"IDx1/2"ODx1/4"Lg / FL5/8"OD x1/16"Th | 2 |
| 3 | 111-322-007 | - | - | 2 |
| 4 | 111-400-004 | HEXAGONAL BOLT | 3/8"-16 X 2 1/4" LG. | 1 |
| 5 | 111-400-007 | HEXAGONAL BOLT | 3/8"-16 X 3 1/4" LG. gr. 5 | 2 |
| 6 | 111-400-011 | HEXAGONAL BOLT | 3/8"-16 X 2 1/2" LG. | 3 |
| 7 | 111-488-006 | LOOP CLAMP | Ø 1/4" | 2 |
| 8 | 111-525-071 | ROUNDED HEAD THREAD-FORMING SCREW | 18-8 X 1/2"LG. | 4 |
| 9 | 111-526-003 | CAP | BLACK CAP | 2 |
| 10 | 111-600-014 | - | - | 2 |
| 11 | 111-666-008 | DRILLING SCREW | SQUARE PAN HEAD #8-18 x 3/4" | 2 |
| 12 | 111-777-021 | CAP NUT | 3/8"-16 UNC | 4 |
| 13 | 111-888-003 | HEX. NYLON-INSERT LOCKNUT | 3/8"-16 UNC | 2 |
| 14 | 111-901-020-1 | WALL WHEEL | Ø1-11/16" X 1-11/16" LG. | 2 |
| 15 | 111-901-082 | BUSHING | INJECTION MOLDING | 1 |
| 16 | 111-901-103 | SOLUTE SOCKET | INJECTION MOLDING | 2 |
| 17 | 111-901-104 | HEADBOARD BUSHING | INJECTION | 2 |
| 18 | 111-999-042 | SCREW | SQUARE PAN HEAD SELF-DRILLING SCREW #10-16 x 5/8 | 2 |
| 19 | 300-903-047 | BACKREST MOTOR | LA 40 WITH DAMPER | 1 |
| 20 | AS001-ASS | CPR ARMS | MECHANICAL ASSEMBLY | 1 |
| 21 | BD015 | TOP FRAME | WELDED ASSEMBLY | 1 |
| 22 | ROUEEXTCDRT-ASS | WHEEL ASSEMBLED RIGHT SIDE | MECHANICAL ASSEMBLY | 1 |
| 23 | ROUEEXTCGCH-ASS | WHEEL ASSEMBLED LEFT SIDE | MECHANICAL ASSEMBLY | 1 |




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| | | | | |
| 1 | 2025-02-18 | REMOVE 2X 111-133-025 AND REMOVE 1X E173, | A.ROY | K.P. |
| REV: | DATE : | DESCRIPTION : | PREPARED BY | CHECKED BY |

*Design as per Usine Rotec inc. standards

Title: VERSATECH MED-SURG

Desc: HEAD ELEVATION

Date: 2024-10-10

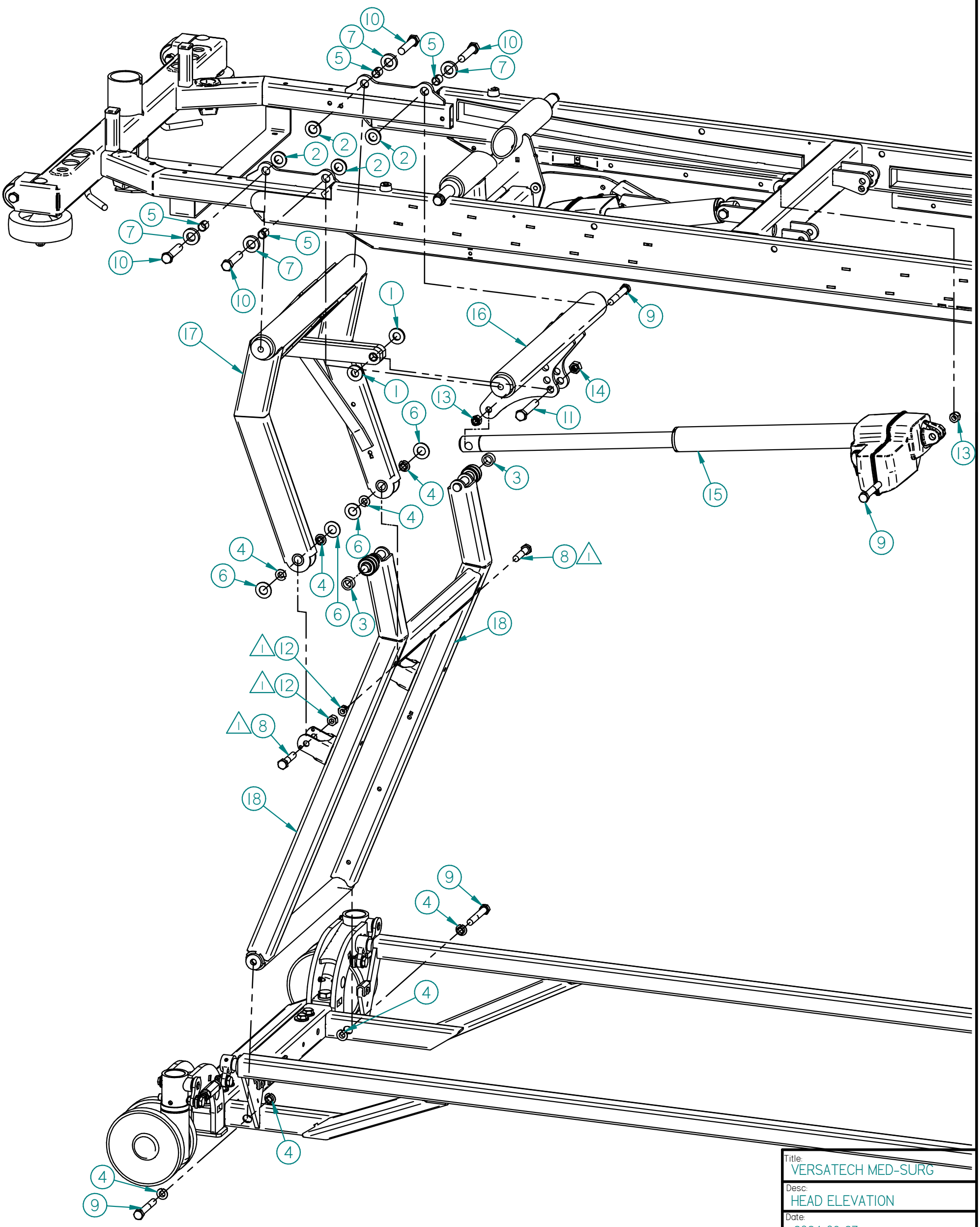
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123, rue de l'Église Baie-du-Febvre,
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| N° | # Parts | Title | Description | Qty |
|---|---|---|---|---|
| 1 | 111-133-003 | FLAT WASHER | I.D. 1/2"X O.D.1" x 1/8" TH. | 2 |
| 2 | 111-133-025 | FLAT WASHER | NYLON WASHER 0.560x1.000x0.125 | 4 |
| 3 | 111-133-028 | SPACER | NYLON SPACER .750X.510X.375 | 2 |
| 4 | 111-133-030 | SHOULDER BUSHING | BUSHING .190x.238x.210 - .350x.040 FL. | 8 |
| 5 | 111-133-031 | SPACER | BUSHING .220x.266x.500 | 4 |
| 6 | 111-133-039 | FLAT WASHER | NYLON WASHER 0.550 x1.030 x 0.062 | 4 |
| 7 | 111-133-047 | FLAT WASHER | NYLON WASHER 0.563x1.024x0.220 | 4 |
| 8 | 111-400-010 | HEXAGONAL BOLT | 3/8"-16 X 1 3/4" LG. | 2 |
| 9 | 111-400-011 | HEXAGONAL BOLT | 3/8"-16 X 2 1/2" LG. | 4 |
| 10 | 111-525-030D | HEX BOLT | HEX BOLT 7/16-14 x 2" GRADE 8 | 4 |

| N° | # Parts | Title | Description | Qty |
|---|---|---|---|---|
| 11 | 111-525-030F | ZINC-PLATED HEXAGONAL BOLT | BOLT CUT TO 2-3/8" | 1 |
| 12 | 111-526-018 | DEFORMED NUT | 3/8"-16 UNC | 2 |
| 13 | 111-888-003 | HEX. NYLON-INSERT LOCKNUT | 3/8"-16 UNC | 2 |
| 14 | 111-888-005B | NYLON LOCKNUT | 7/16"-14 | 1 |
| 15 | 300-903-049 | HIGH LOW MOTOR | LA40 | 1 |
| 16 | AT009 | TRANSMISSION HUB | WELDED ASSEMBLY | 1 |
| 17 | FQ006-ASS | UPPER HI-LO | MECHANICAL ASSEMBLY | 1 |
| 18 | W032-ASS | LOWER HI-LO | MECHANICAL ASSEMBLY | 1 |




| REV: | DATE : | DESCRIPTION : | PREPARED BY | CHECKED BY |
|---|---|---|---|---|
| 1 | 2025-06-11 | REMOVE 2X 111-400-008, 2X 111-888-003 REPLACE BY 2X 111-400-010 AND 2X 111-526-018 | A.ROY | K.P. |

*Design as per Usine Rotec inc. standards

Title: VERSATECH MED-SURG

Desc: HEAD ELEVATION

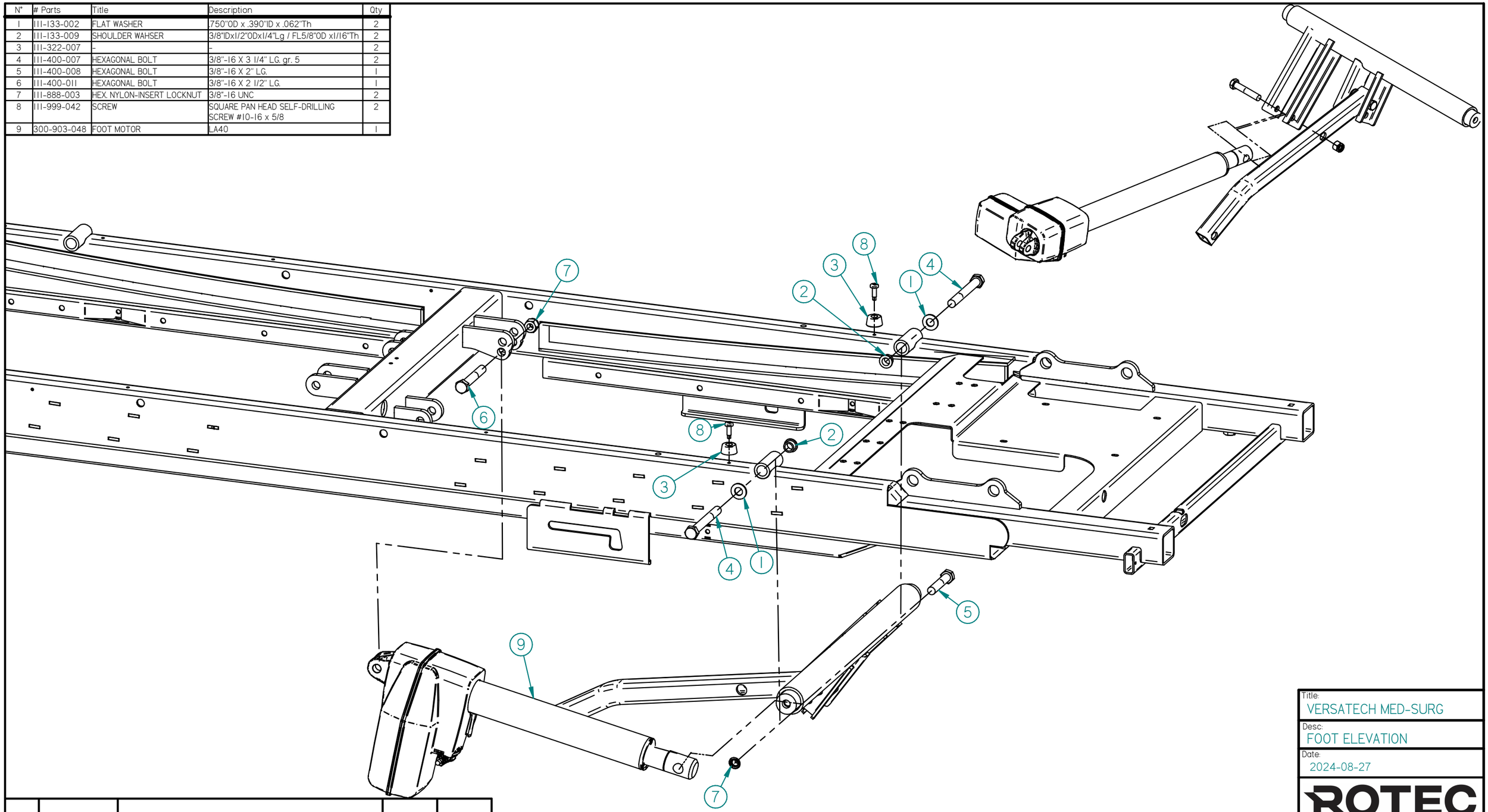
Date: 2024-08-27

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| N° | # Parts | Title | Description | Qty |
|---|---|---|---|---|
| 1 | 111-133-002 | FLAT WASHER | .750"OD x .390"ID x .062"Th | 2 |
| 2 | 111-133-009 | SHOULDER WAHSER | 3/8"IDx1/2"ODx1/4"Lg / FL5/8"OD x1/16"Th | 2 |
| 3 | 111-322-007 | - | - | 2 |
| 4 | 111-400-007 | HEXAGONAL BOLT | 3/8"-16 X 3 1/4" LG. gr. 5 | 2 |
| 5 | 111-400-008 | HEXAGONAL BOLT | 3/8"-16 X 2" LG. | 1 |
| 6 | 111-400-011 | HEXAGONAL BOLT | 3/8"-16 X 2 1/2" LG. | 1 |
| 7 | 111-888-003 | HEX. NYLON-INSERT LOCKNUT | 3/8"-16 UNC | 2 |
| 8 | 111-999-042 | SCREW | SQUARE PAN HEAD SELF-DRILLING SCREW #10-16 x 5/8 | 2 |
| 9 | 300-903-048 | FOOT MOTOR | LA40 | 1 |




| REV: | DATE : | DESCRIPTION : | PREPARED BY | CHECKED BY |
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| | | | A.ROY | |

*Design as per Usine Rotec inc. standards

Title:
VERSATECH MED-SURG

Desc:
FOOT ELEVATION

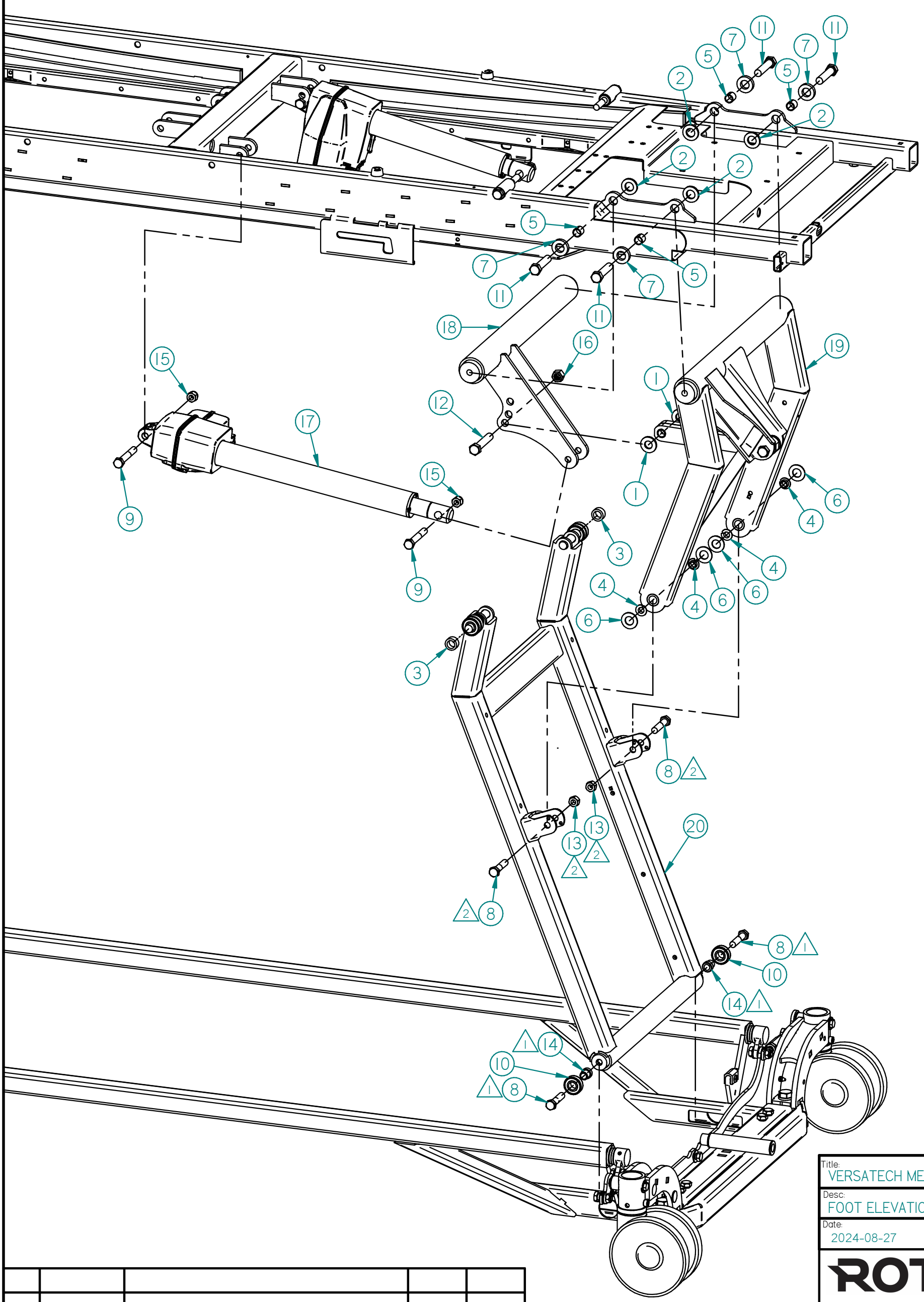
Date:
2024-08-27

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| N° | # Parts | Title | Description | Qty | N° | # Parts | Title | Description | Qty |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 111-133-003 | FLAT WASHER | I.D. 1/2"X O.D.1" x 1/8" TH. | 2 | 11 | 111-525-030D | HEX BOLT | HEX BOLT 7/16-14 x 2" GRADE 8 | 4 |
| 2 | 111-133-025 | FLAT WASHER | NYLON WASHER 0.560x1.000x0.125 | 4 | 12 | 111-525-030F | ZINC-PLATED HEXAGONAL BOLT | BOLT CUT TO 2-3/8" | 1 |
| 3 | 111-133-028 | SPACER | NYLON SPACER .750X.510X.375 | 2 | 13 | 111-526-018 | DEFORMED NUT | 3/8"-16 UNC | 2 |
| 4 | 111-133-030 | SHOULDER BUSHING | BUSHING .190x.238x.210 - .350x.040 FL. | 4 | 14 | 111-555-044 | FLANGE BUSHING | ROUND BAR Ø5/8" | 2 |
| 5 | 111-133-031 | SPACER | BUSHING .220x.266x.500 | 4 | 15 | 111-888-003 | HEX. NYLON-INSERT LOCKNUT | 3/8"-16 UNC | 2 |
| 6 | 111-133-039 | FLAT WASHER | NYLON WASHER 0.550 x1.030 x 0.062 | 4 | 16 | 111-888-005B | NYLON LOCKNUT | 7/16"-14 | 1 |
| 7 | 111-133-047 | FLAT WASHER | NYLON WASHER 0.563x1.024x0.220 | 4 | 17 | 300-903-049 | HIGH LOW MOTOR | LA40 | 1 |
| 8 | 111-400-010 | HEXAGONAL BOLT | 3/8"-16 X 1 3/4" LG. | 4 | 18 | AT009 | TRANSMISSION HUB | WELDED ASSEMBLY | 1 |
| 9 | 111-400-011 | HEXAGONAL BOLT | 3/8"-16 X 2 1/2" LG. | 2 | 19 | FQ006-ASS | UPPER HI-LO | MECHANICAL ASSEMBLY | 1 |
| 10 | 111-411-050 | BALL BEARING | Ø INSIDE. 1/2" X Ø OUTSIDE. 1-1/8" | 2 | 20 | W032-ASS | LOWER HI-LO | MECHANICAL ASSEMBLY | 1 |




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| 2 | 2025-06-11 | REMOVE 2X 111-400-008, 2X 111-888-003 REPLACE BY 2X 111-400-010 AND 2X 111-526-018 | A.ROY | K.P. |
| 1 | 2025-02-12 | REMOVE 2X 111-133-009, REPLACE 2X LAZWAS004 BY 2X 111-555-044 REPLACE 2X 111-400-008 BY 2X 111-400-010 | A.ROY | K.P. |

*Design as per Usine Rotec inc. standards

Title: VERSATECH MED-SURG

Desc: FOOT ELEVATION

Date: 2024-08-27

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| N° | # Item | Titre | Description | Qté |
|---|---|---|---|---|
| 1 | 111-000-027 | RONDELLE FREIN | # 10 PLAQUÉ ZINC | 3 |
| 2 | 111-000-073 | RESSORT COMPRESSION ET EXTENSION | D.E. 7/8" x 10 5/8" LG. x 0.080" JAUGE 3 SPIRAL PAR POUCE | 1 |
| 3 | 111-244-031 | BOUCHON | 3" X 1" X 14-20GA | 1 |
| 4 | 111-244-047 | CAPUCHON | 1" X 1/2" X 16-18 ga | 1 |
| 5 | 111-244-054 | SAPIN POUR COLLIER DE SERRAGE | Ø 1/4" | 17 |
| 6 | 111-525-069 | VIS À FILETER POUR PLASTIQUE | # 6 X 1" LG. | 2 |
| 7 | 111-525-070 | VIS TÊTE RONDE À FILLETAGE | 12-24 X 3/4" LG. | 2 |
| 8 | 111-655-058 | CÂBLE BATTERIE/CIRCUIT | 190MM | 1 |
| 9 | 111-655-060 | SUPPORT DE MONTAGE | FIXATION POUR CIRCUIT | 1 |
| 10 | 111-666-012 | VIS AUTOPERÇANTE | VIS METAL TÊTE FRAISER #8 X 3/4" | 3 |
| 11 | 111-888-014 | VIS TÊTE RONDE ROBERTSON | 10/32 X 1" LG. | 3 |
| 12 | 111-901-018 | RIVET | RIVET DE PLASTIQUE (SAPIN) | 10 |
| 13 | 111-901-099 | ESPACEUR DB37 | MOULAGE PAR INJECTION | 1 |
| 14 | 111-901-100 | PASSE FIL | HAUTEUR 7/16" X LARGEUR 1-5/16" | 2 |
| 15 | 111-999-071 | VIS, T.R. PHILIPS | 6-32 UNC X 1-1/4"Lg | 2 |
| 16 | 401-500-036 | BOITE DE CONTROLE | C071 | 1 |
| 17 | 401-500-037 | BA21 | BATTERIE | 1 |
| 18 | 555-200-001 | GAINE THERMORETRACTABLE | Ø 1" x 10" LG. | 1 |
| 19 | 555-644-011 | CÂBLE MJB | 800mm | 1 |
| 20 | GZ00102 | BOITIER DE CONTROLE 120V | ASSEMBLAGE BOITIER | 1 |
| 21 | GZ00144-ST | CÂBLE MOTEUR MODIFIÉ 450mm | ASSEMBLAGE ELECTRONIQUE | 2 |
| 22 | GZ00145-ST | CÂBLE MOTEUR MODIFIÉ 575mm | ASSEMBLAGE ELECTRONIQUE | 1 |
| 23 | GZ00146-ST | CÂBLE MOTEUR MODIFIER 850mm | ASSEMBLAGE ELECTRONIQUE | 1 |
| 24 | GZ00147-ST | FIL | ASSEMBLAGE ELECTRONIQUE | 1 |
| 25 | GZ00148-ST | FIL MOTEUR ROUE MOTORISÉ | ASSEMBLAGE ELECTRONIQUE | 1 |
| 26 | GZ00149-ST | DB37 VERSADRIVE | ASSEMBLAGE ELECTRONIQUE | 1 |

*Design as per Usine Rotec inc. standards

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| 1 | 2025-10-07 | REMOVE LAZSPA012 IX | A.ROY | K.P. |

Title: VERSATECH MED-SURG

Desc: 120 VOLTS

Date: 2024-08-27

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| N° | # Parts | Title | Description | Qty |
|---|---|---|---|---|
| 25 | GZ00148-ST | MOTORIZED WHEEL WIRE | ELECTRONIC ASSEMBLY | 1 |
| 26 | GZ00149-ST | DB37 VERSADRIVE | ELECTRONIC ASSEMBLY | 1 |

| N° | # Parts | Title | Description | Qty |
|---|---|---|---|---|
| 1 | 111-000-027 | LOCK WASHER | ZINC-PLATED #10 | 3 |
| 2 | 111-000-073 | COMPRESSION AND EXTENSION SPRING | O.D. 7/8" x 10 5/8" LG. x 0.080" GAUGE 3 COILS FOR INCH | 1 |
| 3 | 111-244-031 | CAP | 3" X 1" X 14-20GA | 1 |
| 4 | 111-244-047 | CAPS | 1" X 1/2" X 16-18 ga | 1 |
| 5 | 111-244-054 | PUSH UMBRELLA MOUNT | Ø 1/4" | 17 |
| 6 | 111-525-069 | THREAD-FORMING SCREWS FOR PLASTIC | # 6 X 1" LG. | 2 |
| 7 | 111-525-070 | ROUDED HEAD THREAD-CUTTING SCREW | 12-24 X 3/4" LG. | 2 |
| 8 | 111-655-058 | BATTERY/CIRCUIT CABLE | 190MM | 1 |
| 9 | 111-655-060 | MOUNTING BRACKET | CIRCUIT FIXING | 1 |
| 10 | 111-666-012 | DRILLING SCREW | FLAT HEAD DRILLING SCREW FOR METAL | 3 |
| 11 | 111-888-014 | SQUARE PAN HEAD SCREW | 1/2"-20 X 1-3/4" | 3 |
| 12 | 111-901-018 | RIVET | PLASTIC RIVET | 10 |
| 13 | 111-901-099 | SPACER | PLASTIC INJECTION MOLDING | 1 |
| 14 | 111-901-100 | RACEWAY | DEOTH 7/16" X WIDTH 1-5/16" | 2 |
| 15 | 111-999-071 | PAN HEAD PHILIPS SCREW | 6-32 UNC x 1-1/4"Lg | 2 |
| 16 | 401-500-036 | CONTROL BOX | C071 | 1 |
| 17 | 401-500-037 | BA21 | BATTERY | 1 |
| 18 | 555-200-001 | SHRINK | Ø 1" x 10" LG. | 1 |
| 19 | 555-644-011 | MJB CABLE | 800mm | 1 |
| 20 | GZ00101 | 230V CONTROL BOX | BOX ASSEMBLY | 1 |
| 21 | GZ00144-ST | MOTOR CABLE | MODIFIED MOTOR CABLE TO 450mm | 2 |
| 22 | GZ00145-ST | MOTOR CABLE | MODIFIED MOTOR CABLE TO 575mm | 1 |
| 23 | GZ00146-ST | MOTOR CABLE | MODIFIED MOTOR CABLE TO 850mm | 1 |
| 24 | GZ00147-ST | WIRE | ELECTRONIC ASSEMBLY | 1 |

| REV. | DATE : | DESCRIPTION : | PREPARED BY | CHECKED BY |
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| 1 | 2025-10-07 | REMOVE LAZSPA012 IX | A.ROY | K.P. |

*Design as per Usine Rotec inc. standards

Title: VERSATECH MED-SURG

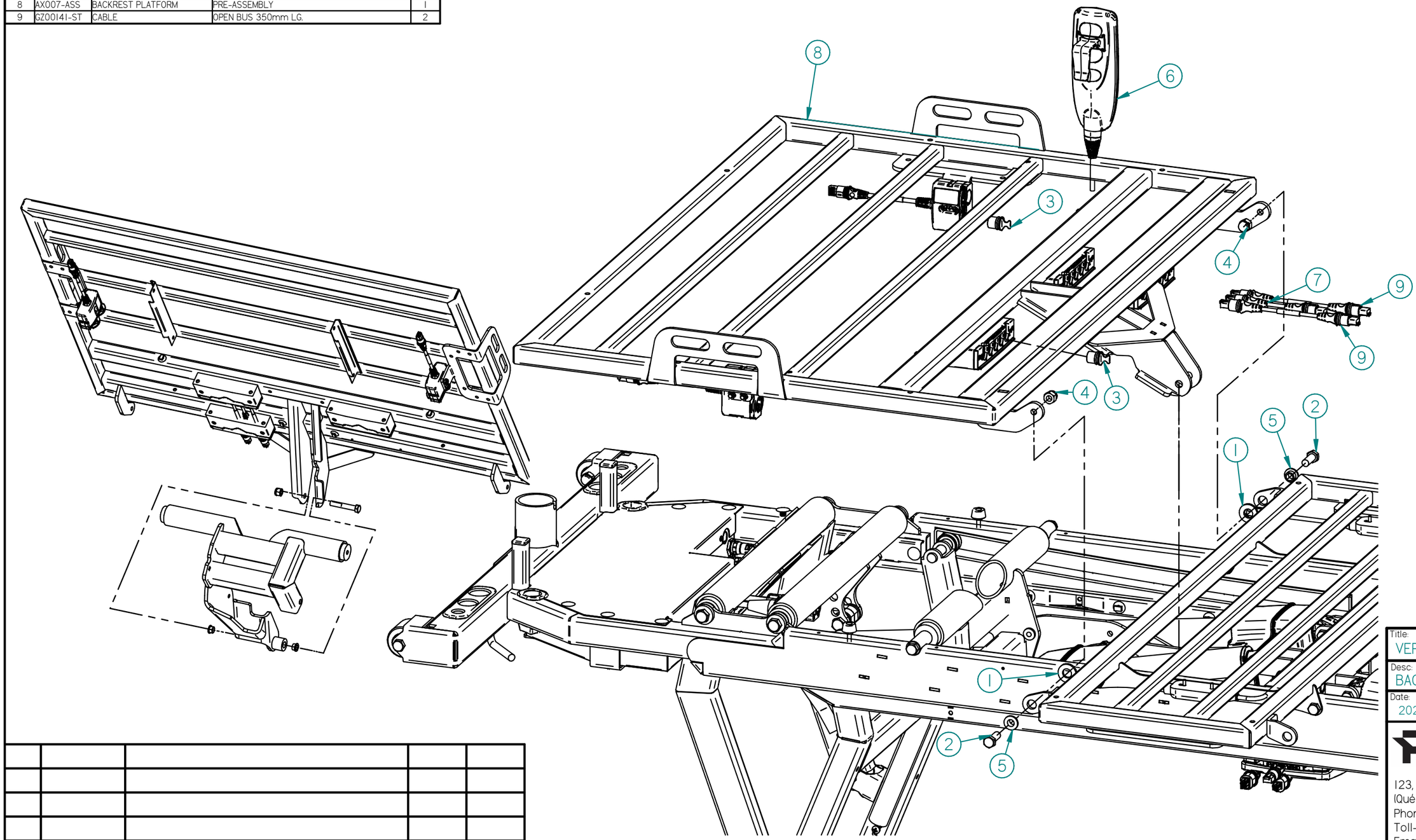
Desc: 230 VOLTS

Date: 2024-08-27

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| N° | # Parts | Title | Description | Qty |
|---|---|---|---|---|
| 1 | 111-133-003 | FLAT WASHER | I.D. 1/2"X O.D.1" x 1/8" TH. | 2 |
| 2 | 111-400-002 | HEX.BOLT | 3/8"-16 X 1" LG. | 2 |
| 3 | 111-533-004 | BLIND PLUG | OPENBUS PLUG | 2 |
| 4 | 111-777-021 | CAP NUT | 3/8"-16 UNC | 2 |
| 5 | 111-900-002 | SHOULDER WASHER | .378"ID x .505"OD x .250"Lg / Fl .755"OD x.078"Th | 2 |
| 6 | 401-500-018 | REMOTE | SELF CONTOUR REMOTE | 1 |
| 7 | 555-644-011 | MJB CABLE | 800mm | 1 |
| 8 | AX007-ASS | BACKREST PLATFORM | PRE-ASSEMBLY | 1 |
| 9 | GZ00141-ST | CABLE | OPEN BUS 350mm LG. | 2 |




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| | | | A.ROY | |

*Design as per Usine Rotec inc. standards

Title: VERSATECH MED-SURG

Desc: BACKREST PLATFORM

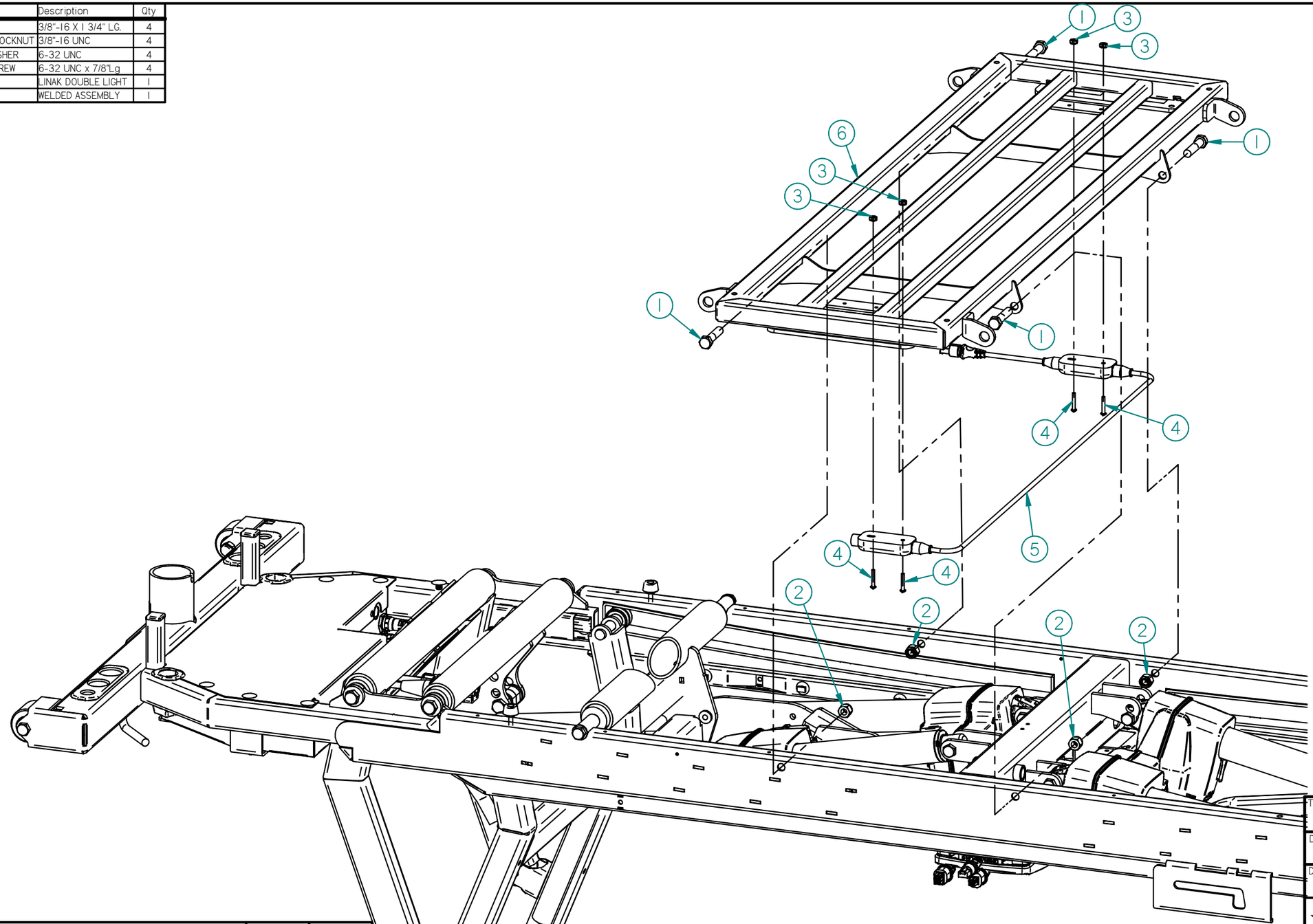
Date: 2024-08-27

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| N° | # Parts | Title | Description | Qty |
|---|---|---|---|---|
| 1 | 111-400-010 | HEXAGONAL BOLT | 3/8"-16 X 1 3/4" LG. | 4 |
| 2 | 111-888-003 | HEX. NYLON-INSERT LOCKNUT | 3/8"-16 UNC | 4 |
| 3 | 111-999-014 | LOCKNUT, TOOTH WASHER | 6-32 UNC | 4 |
| 4 | 111-999-086 | PAN HEAD PHILIPS SCREW | 6-32 UNC x 7/8"Lg | 4 |
| 5 | 555-400-028 | LIGHT | LINAK DOUBLE LIGHT | 1 |
| 6 | BA006 | SEAT PLATFORM | WELDED ASSEMBLY | 1 |




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Title:
VERSATECH MED-SURG

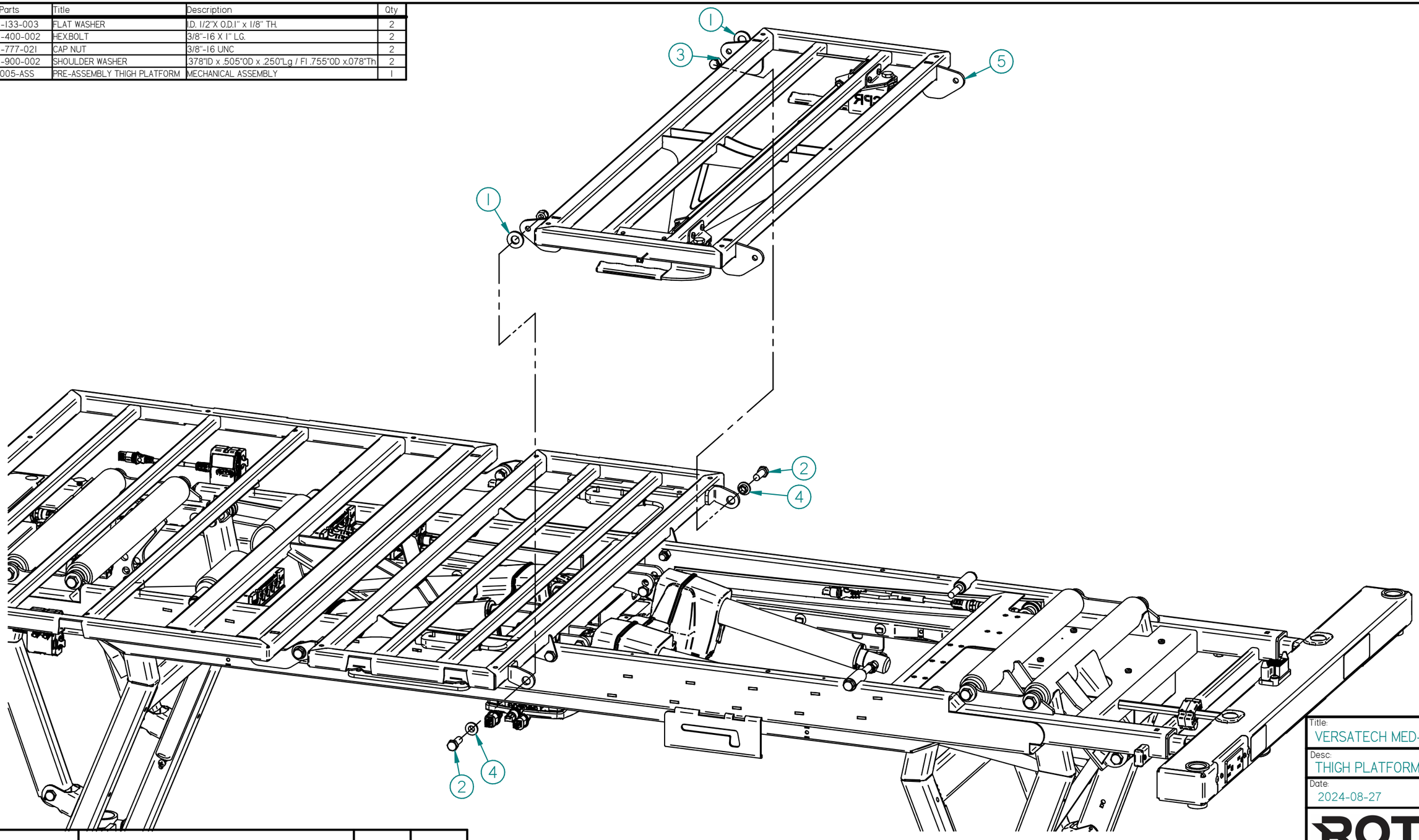
Desc:
SEAT PLATFORM

Date:
2024-08-27

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| N° | # Parts | Title | Description | Qty |
|---|---|---|---|---|
| 1 | 111-133-003 | FLAT WASHER | I.D. 1/2"X O.D.1" x 1/8" TH. | 2 |
| 2 | 111-400-002 | HEX.BOLT | 3/8"-16 X 1" LG. | 2 |
| 3 | 111-777-021 | CAP NUT | 3/8"-16 UNC | 2 |
| 4 | 111-900-002 | SHOULDER WASHER | .378"ID x .505"OD x .250"Lg / Fl .755"OD x.078"Th | 2 |
| 5 | AZ005-ASS | PRE-ASSEMBLY THIGH PLATFORM | MECHANICAL ASSEMBLY | 1 |




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Title: VERSATECH MED-SURG

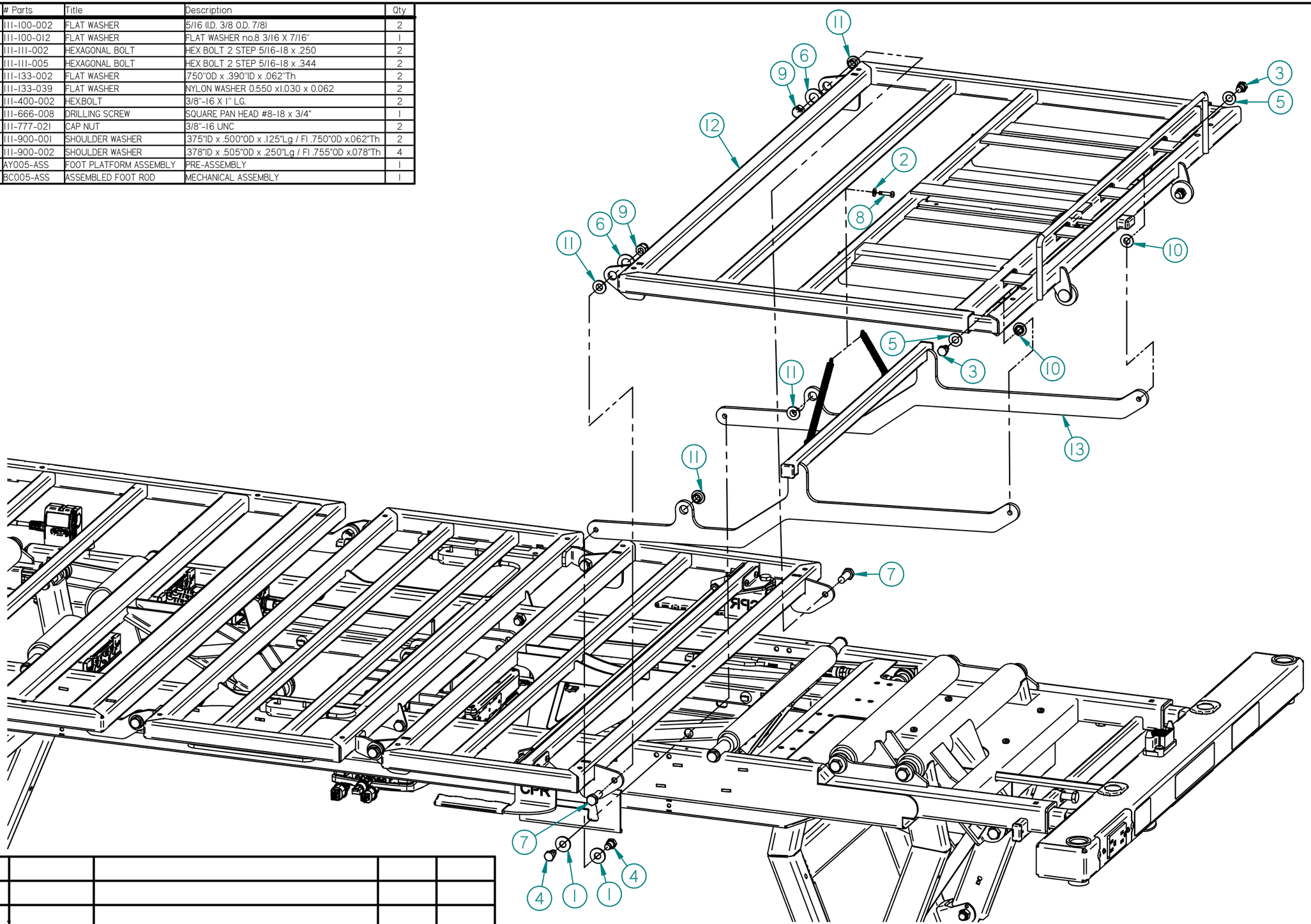
Desc: THIGH PLATFORM

Date: 2024-08-27

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| N° | # Parts | Title | Description | Qty |
|---|---|---|---|---|
| 1 | 111-100-002 | FLAT WASHER | 5/16 (I.D. 3/8 O.D. 7/8) | 2 |
| 2 | 111-100-012 | FLAT WASHER | FLAT WASHER no.8 3/16 X 7/16" | 1 |
| 3 | 111-111-002 | HEXAGONAL BOLT | HEX BOLT 2 STEP 5/16-18 x .250 | 2 |
| 4 | 111-111-005 | HEXAGONAL BOLT | HEX BOLT 2 STEP 5/16-18 x .344 | 2 |
| 5 | 111-133-002 | FLAT WASHER | .750"OD x .390"ID x .062"Th | 2 |
| 6 | 111-133-039 | FLAT WASHER | NYLON WASHER 0.550 x1.030 x 0.062 | 2 |
| 7 | 111-400-002 | HEX.BOLT | 3/8"-16 X 1" LG. | 2 |
| 8 | 111-666-008 | DRILLING SCREW | SQUARE PAN HEAD #8-18 x 3/4" | 1 |
| 9 | 111-777-021 | CAP NUT | 3/8"-16 UNC | 2 |
| 10 | 111-900-001 | SHOULDER WASHER | .375"ID x .500"OD x .125"Lg / Fl .750"OD x.062"Th | 2 |
| 11 | 111-900-002 | SHOULDER WASHER | .378"ID x .505"OD x .250"Lg / Fl .755"OD x.078"Th | 4 |
| 12 | AY005-ASS | FOOT PLATFORM ASSEMBLY | PRE-ASSEMBLY | 1 |
| 13 | BC005-ASS | ASSEMBLED FOOT ROD | MECHANICAL ASSEMBLY | 1 |




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| | | | A.ROY | |

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Title: VERSATECH MD-SURG

Desc: FOOT PLATEFORM

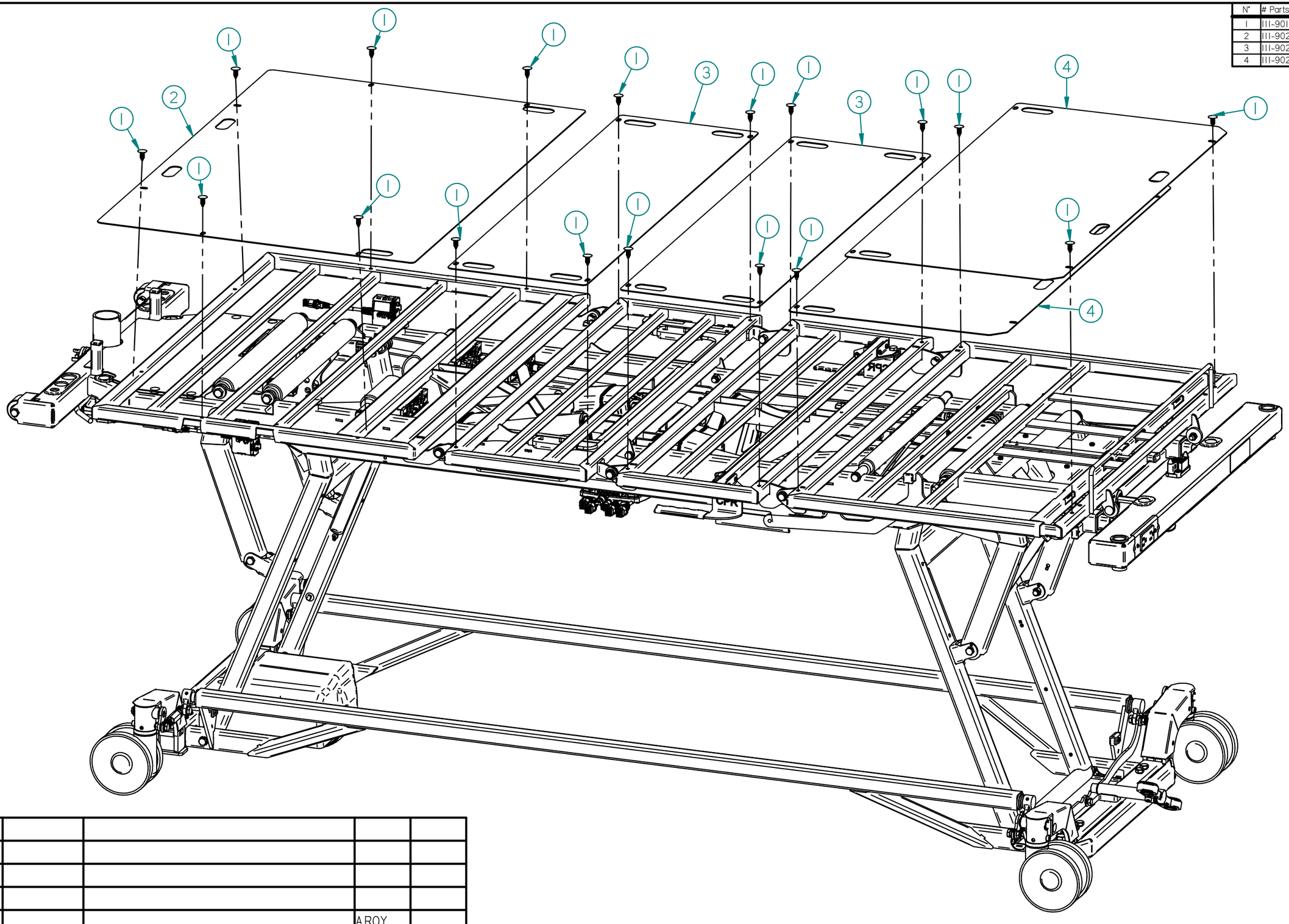
Date: 2024-08-27

ROTEC

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Toll-free : 1 800 358-6440
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| N° | # Parts | Title | Description | Qty |
|---|---|---|---|---|
| 1 | III-901-018 | RIVET | PLASTIC RIVET | 18 |
| 2 | III-902-012-1 | PLATFORM COVER | PLATE 1/16" TH. | 1 |
| 3 | III-902-012-2 | PLATFORM COVER | PLATE 1/16" TH. | 2 |
| 4 | III-902-012-3 | PLATFORM COVER | PLATE 1/16" TH. | 2 |




| REV. | DATE : | DESCRIPTION : | PREPARED BY | CHECKED BY |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | A.ROY | |

*Design as per Usine Rotec inc. standards

Title: VERSATECH MED-SURG

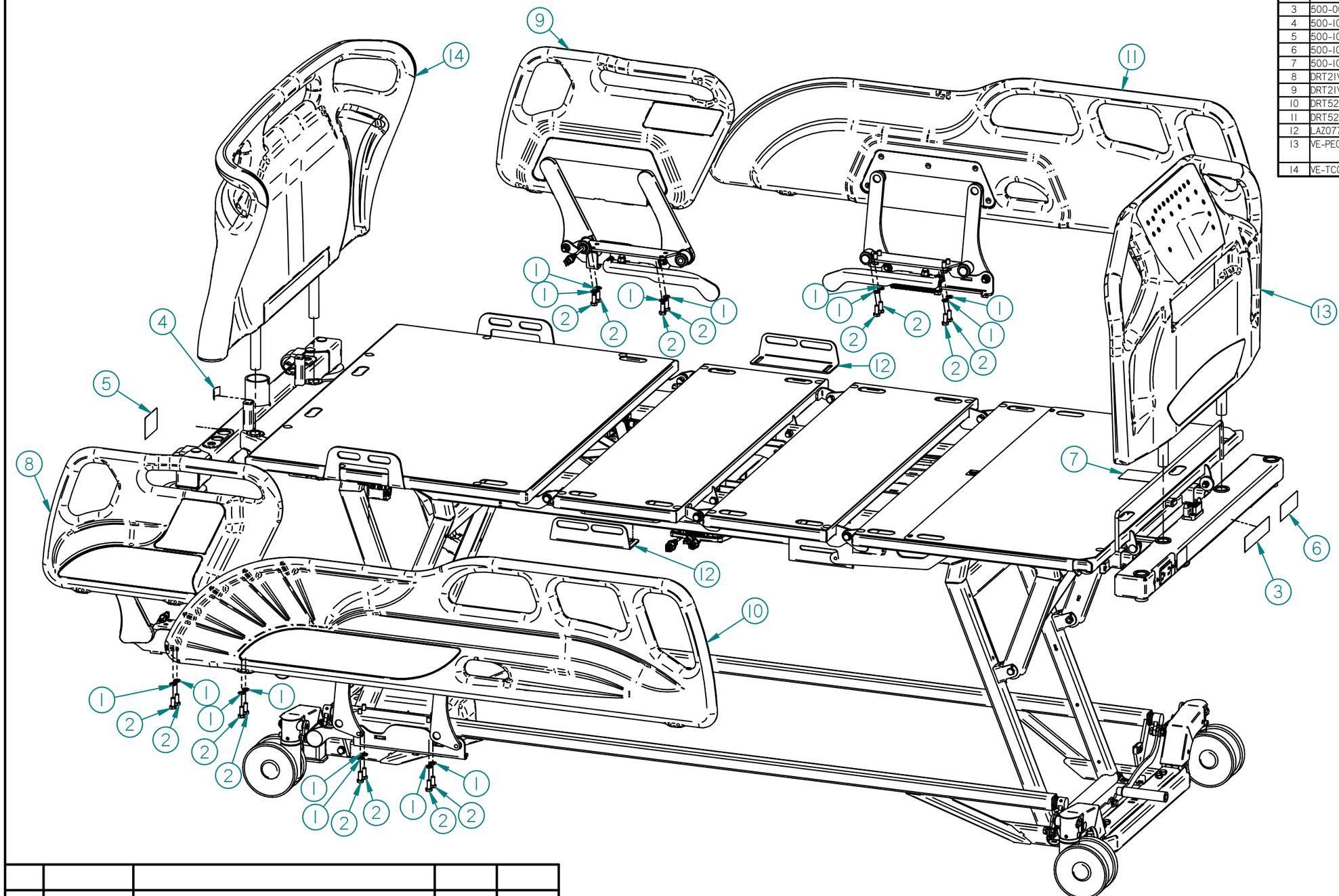
Desc: PLATFORM COVER

Date: 2024-08-27

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| N° | # Parts | Title | Description | Qty |
|---|---|---|---|---|
| 1 | 111-000-002 | LOCK WASHER | LOCK WASHER 5/16" | 16 |
| 2 | 111-300-001 | BOLT | BOLT 5/16-18 x 3/4" LG. | 16 |
| 3 | 500-000-041B | STICKER | BED IDENTIFICATION | 1 |
| 4 | 500-100-001 | STICKER | TRAPEZE | 1 |
| 5 | 500-100-042 | STICKER | CE SCALE SYSTEME | 1 |
| 6 | 500-100-049 | STICKER | LIMIT WEIGHT | 1 |
| 7 | 500-100-050 | STICKER | BASIC DIMENSION | 1 |
| 8 | DRT2IVED-X2-C002 | SIDERAIL | MÉCHANICAL ASSEMBLY | 1 |
| 9 | DRT2IVEG-X2-C002 | SIDERAIL | MÉCHANICAL ASSEMBLY | 1 |
| 10 | DRT52VED-C002 | RIGHT FOOT SIDERAIL V600 2.0 | MÉCHANICAL ASSEMBLY | 1 |
| 11 | DRT52VEG-C002 | LEFT FOOT SIDERAIL V600 2.0 | MÉCHANICAL ASSEMBLY | 1 |
| 12 | LAZ077 | HOLDING STRAP ANCHOR | 1/8" TH. PLATE | 2 |
| 13 | VE-PE03-C002 | FOOTBOARD WITHOUT MOTORIZATION | MECHANICAL ASSEMBLY | 1 |
| 14 | VE-TC01-C002 | HEAD BOARD | MECHANICAL ASSEMBLY | 1 |

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| | | | A.ROY | |

*Design as per Usine Rotec inc. standards

Title: VERSATECH MED-SURG

Desc: PANELS AND SIDE RAILS

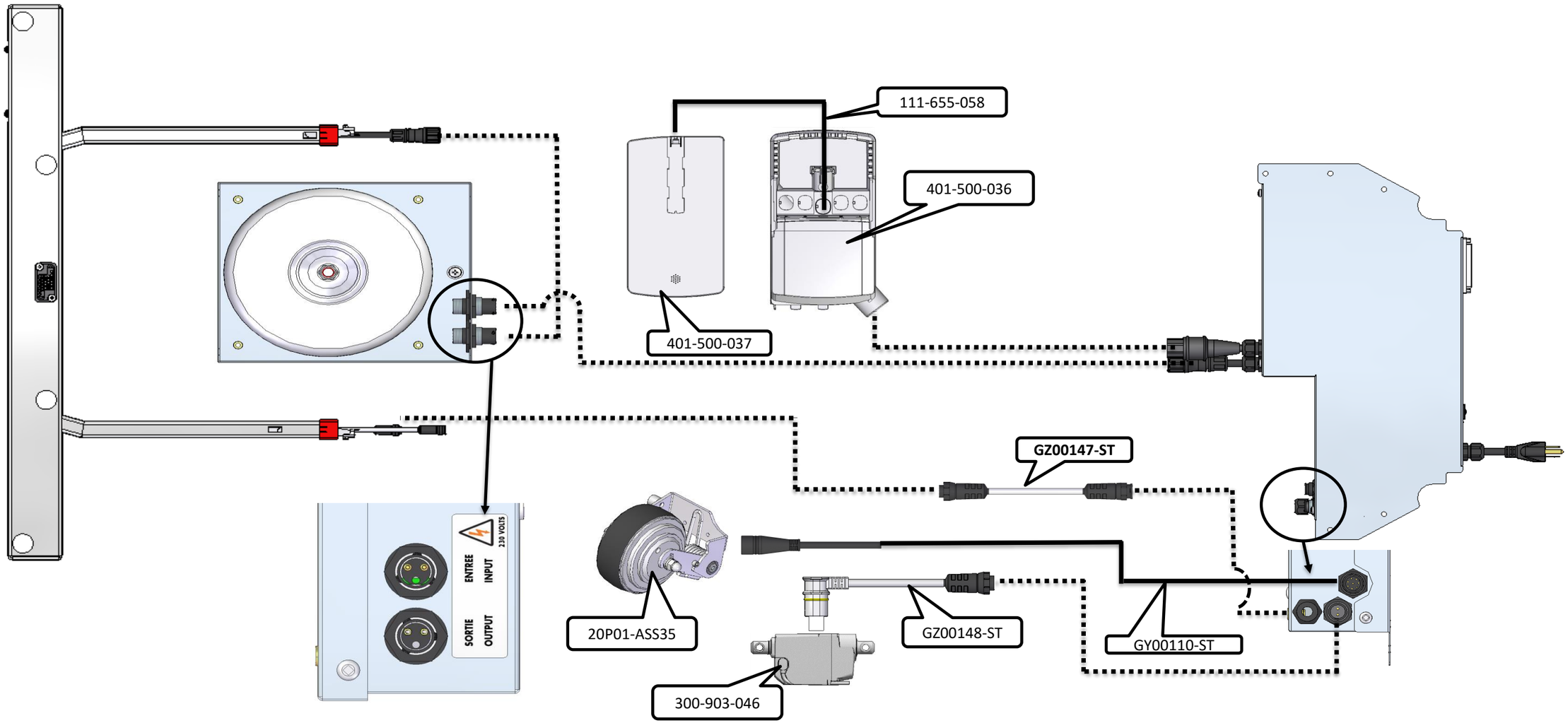
Date: 2024-10-29

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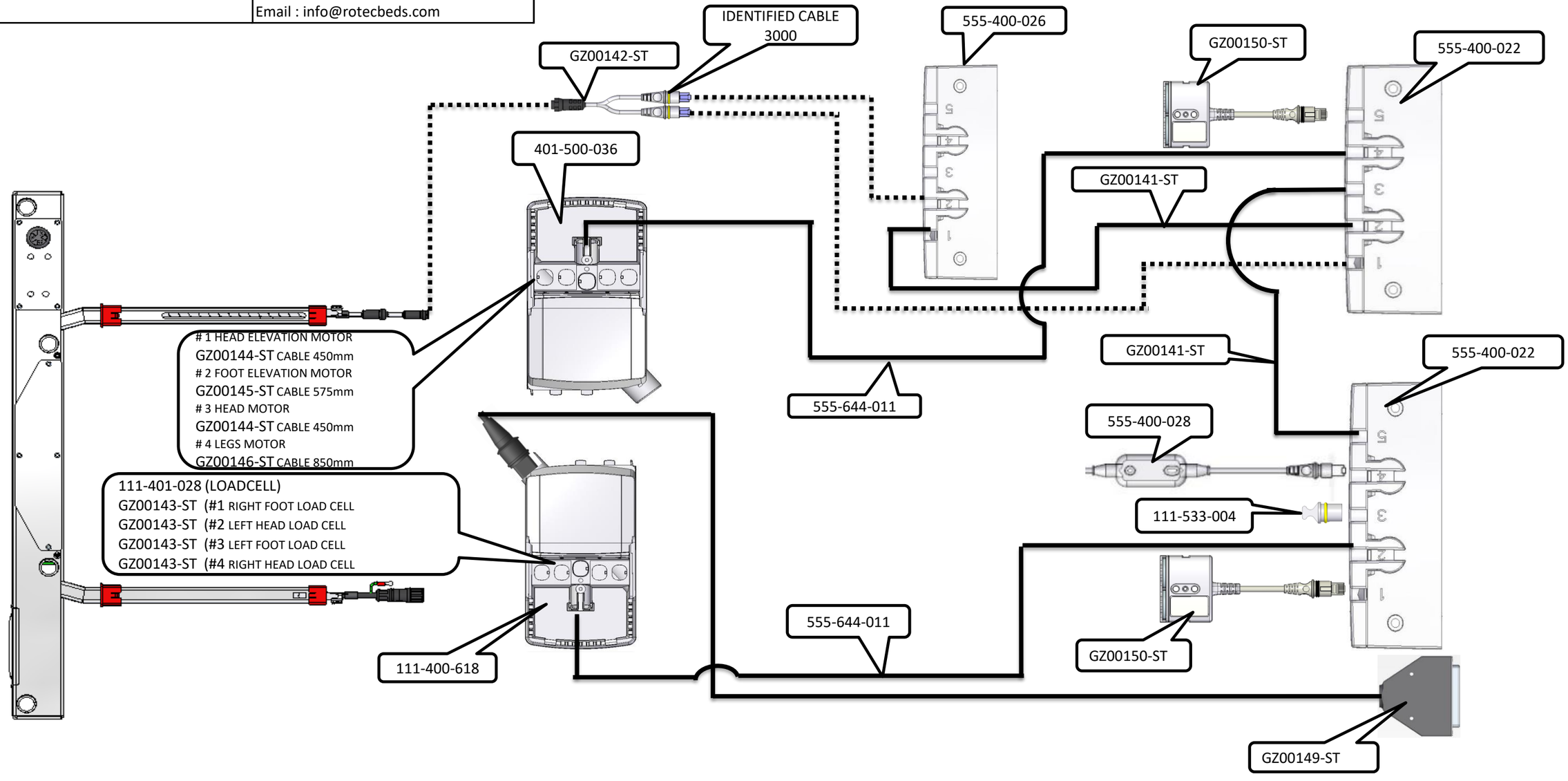
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| Titre : | Desc : | Date : |
|---|---|---|
| CABLE CONNECTION DIAGRAM | CONTROLLER AND TRANSFORMER | 2024-11-12 |



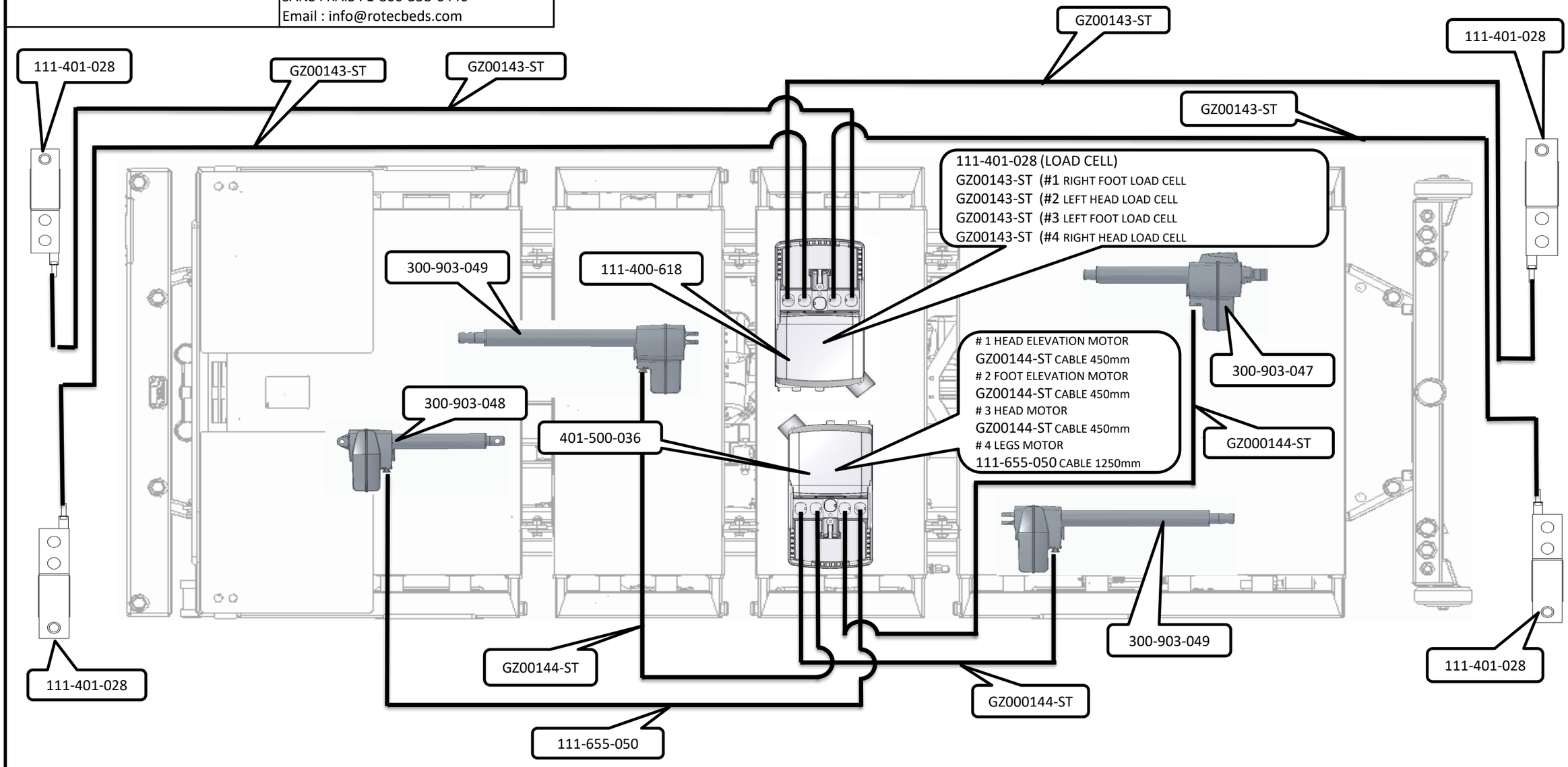
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| Titre : | Desc : | Date : |
|---|---|---|
| CABLE CONNECTION DIAGRAM | LIGHT, QLCI AND MJB | 2024-11-12 |



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| Titre : | Desc : | Date : |
|---|---|---|
| CABLE CONNECTION DIAGRAM | MOTOR AND LOAD CELL | 2024-11-12 |



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| CABLE CONNECTION DIAGRAM | MOTOR AND LOAD CELL | 2024-11-12 |

