



# TITAN 500

FREESTANDING OVERHEAD PATIENT LIFT

ASSEMBLY, OPERATION & MAINTENANCE

# PARTS LIST

<u>Description</u>	<u>Quantity</u>
1. Upper Support (Red/Blue Marking)	2
2. Lower Support (Green/Blue Marking)	2
3. Support Base (Blue Marking)	2
4. Overhead Transverse Beam	1
5. Flat Lower Gusset (Blue/Green Marking)	4
6. Bent Upper Gusset (Red Marking)	4
7. Lift Motor	1
8. Four Point Lift Bar	1
9. Universal Sling	1
10. Remote Control	1
11. Emergency Remote Control	1
12. Battery Charger	1
13. Manual / Warranty	1
14. Assembly Kit	1
3½" Bolts – Red – 8 total, 4 with washers	
3" Bolts – Green – 4 total	
2¾" Bolts – Blue – 10 total	
Nylock Nuts – 22 total	
Plastic Caps – 44 total	

The intended use of this lifting device is for the safe lifting and transfer of an individual between the posts from one resting surface to another (such as a bed to a wheelchair). Traxx Mobility Systems recommends that the transfer of a patient is fully risk assessed and conducted safely. The Titan 500 is suitable for patient in the sitting, sitting/recumbent and recumbent positions. The Titan 500 is designed to support and promote safe patient handling and transfer for both the patient and the caregiver.

Do not operate this equipment without first reading and understanding this manual. Use only as intended. **This product may cause serious injury if not installed and operated according to the manual.**

If you are unable to understand the warnings, cautions or instructions, contact a healthcare professional or Traxx Mobility Systems before attempting to use this equipment. Otherwise, injury or damage may occur.

Failure to observe the warnings listed below could result in serious injury.

- DO NOT lift a patient unless you are trained and competent to do so.
- DO NOT attempt any transfer without approval of the patient's physician, nurse or medical attendant. Thoroughly read the instruction in the manual, observe a trained team of experts perform the lifting procedures and then perform the entire lift procedure several times with proper supervision and a capable individual acting as a patient before attempting to use this device on a patient.
- ALWAYS familiarize yourself with operating control and safety features of the lift before lifting a patient. ALWAYS carry out lifting operations according to the instructions in the manual
- The Titan 500 is NOT a transport device. It is intended to transfer an individual from one resting surface to another (such as a bed to a wheelchair). DO NOT move the frame with a patient suspended in the sling.
- Transfers should only take place between the supports of the Titan 500. DO NOT swing the patient sideways out from under the overhead beam.
- ALWAYS keep patient's weight centered under the overhead beam. The beam should cross the patient's chest to ensure a straight lift.
- ALWAYS use lift caster brakes (if equipped) while lifting or transferring a patient.
- NEVER leave a patient unattended while the lift is in use.
- KEEP the batteries fully charge. Place the batteries on charge whenever it is not in use. If it is more convenient to do so, place on charge every night. The charger will not allow the batteries to overcharge.
- NEVER run the batteries completely flat. NEVER store the batteries for long periods without regular charging throughout the storage period.
- DO NOT use the lift in a shower. DO NOT charge the lift in a bathroom or shower.
- NEVER use a sling or lift belt that is frayed or damaged.
- The lift is NOT a toy. ALWAYS keep it away from children and pets.

# TITAN 500 PATIENT LIFT MANUAL

## UNPACK

Inspect the exterior of each box for any damage that may have occurred during shipping. Inspect interior contents for same. If anything appears damaged, call customer service at (855) 872-9967.



Carefully remove the patient lift parts from the boxes. Reference the Parts List below and make sure all parts are included. Parts have been color-coded for easy assembly.

We recommend you watch our Assembly Video at [www.youtube.com/traxxmobilitysystems](http://www.youtube.com/traxxmobilitysystems) before proceeding.

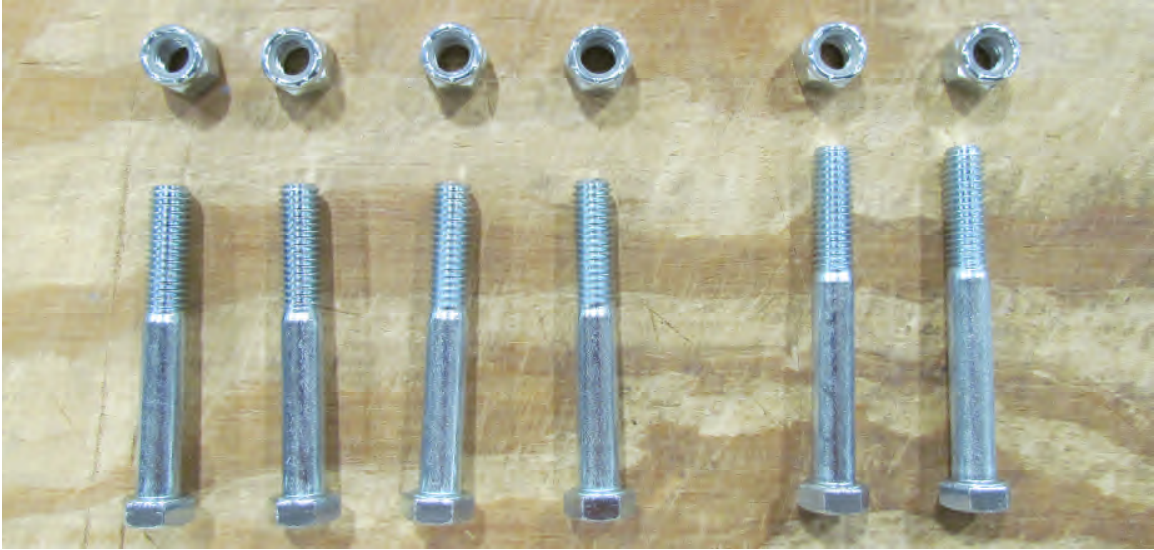
Survey the room where you plan to install the system and make sure the room meets all requirements and is free of debris. For safety reasons, make sure patient is not in bed or in room when installing overhead lift

We recommend that two adults assemble the lift. Read all instructions before beginning assembly. All hardware features a 9/16<sup>th</sup> inch / 14mm hex head.

## ASSEMBLY

Assemble a Lower Support (Green/Blue Marking) with a Support Base (Blue Marking) using two Flat Lower Gussets (Blue/Green Marking).

Four 2 $\frac{3}{4}$ " Bolts (Blue) will attach the Flat Lower Gusset to the Support Base. Two 3" Bolts (Green) will attach the Flat Lower Gusset to the Lower Support.

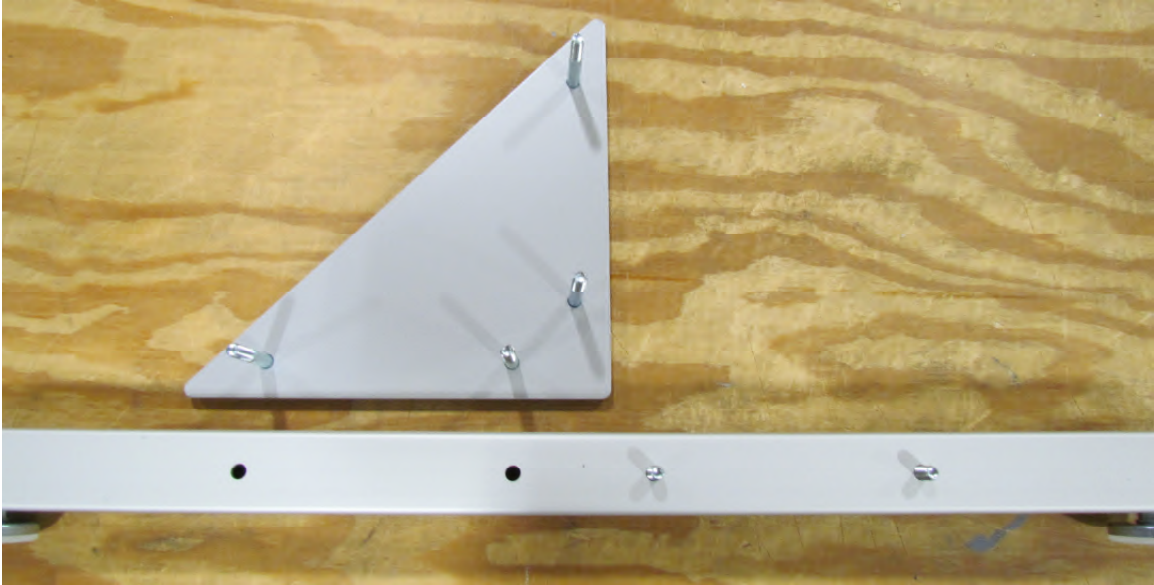


Place Base Support with Glides/Casters facing up. Insert two 2 $\frac{3}{4}$ " Bolts (Blue) through the two right holes on the Base Support. Flip the Support Base so bolts stick up.

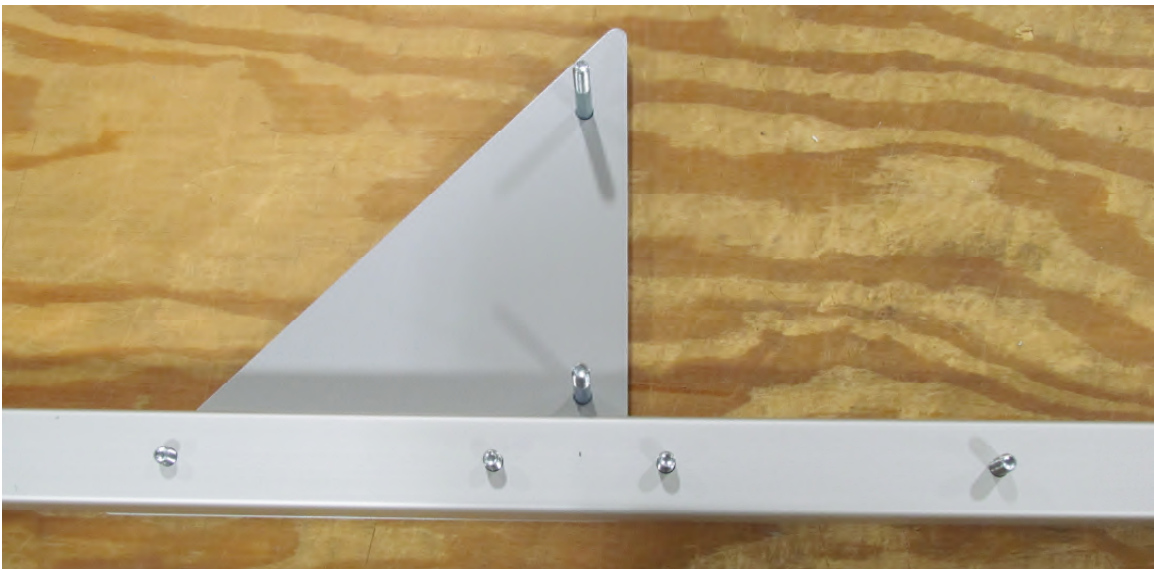


Align Flat Gusset as shown below. Insert two 2  $\frac{3}{4}$ " Bolts (Blue) through the bottom of the Flat Gusset. Insert two 3" Bolts (Green) through the side of the Flat Gusset. Follow the color coding on the gussets.





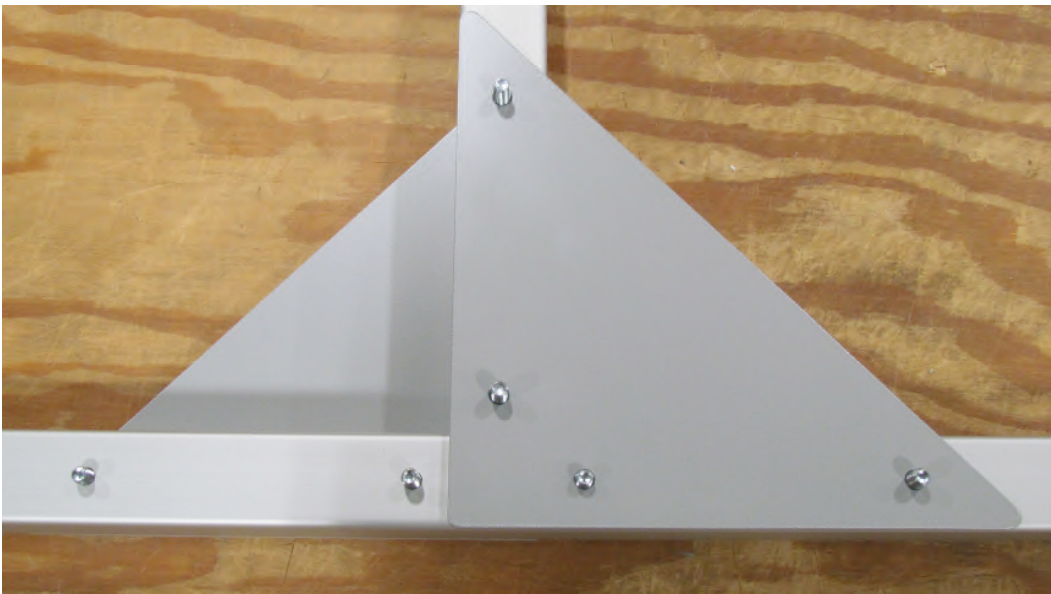
Place the Base Support over the Flat Gusset.



Place Lower Support over Flat Gusset.

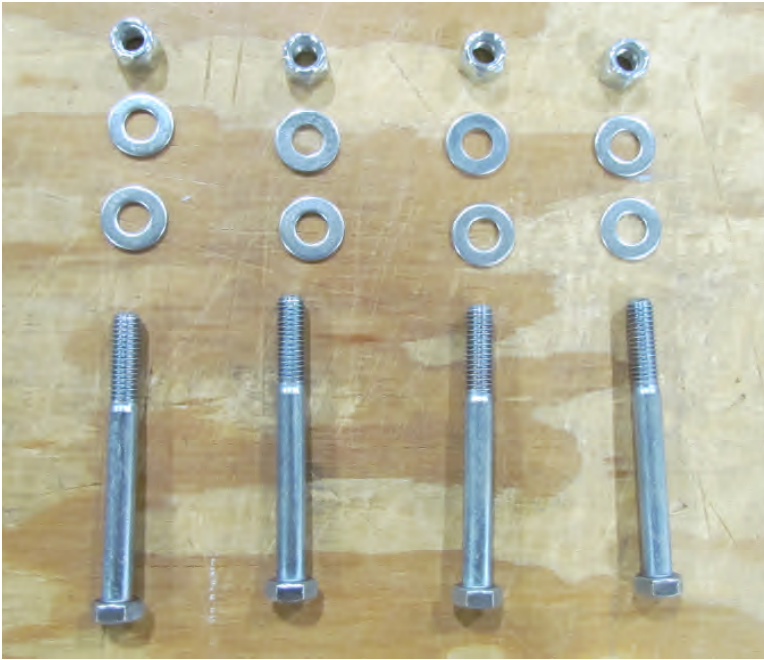


Place Flat Gusset over top of Base Support and Lower Support. Fasten Nylock Nuts on all six bolts. Do not over-tighten. Repeat process for second Lower / Base Support.



Next, attach the Bent Upper Gussets to the Upper Support. Select four 3½" Bolts with Washers. One washer will go against the bolt hex head and the other will go against the Nylock Nut once fully assembled.

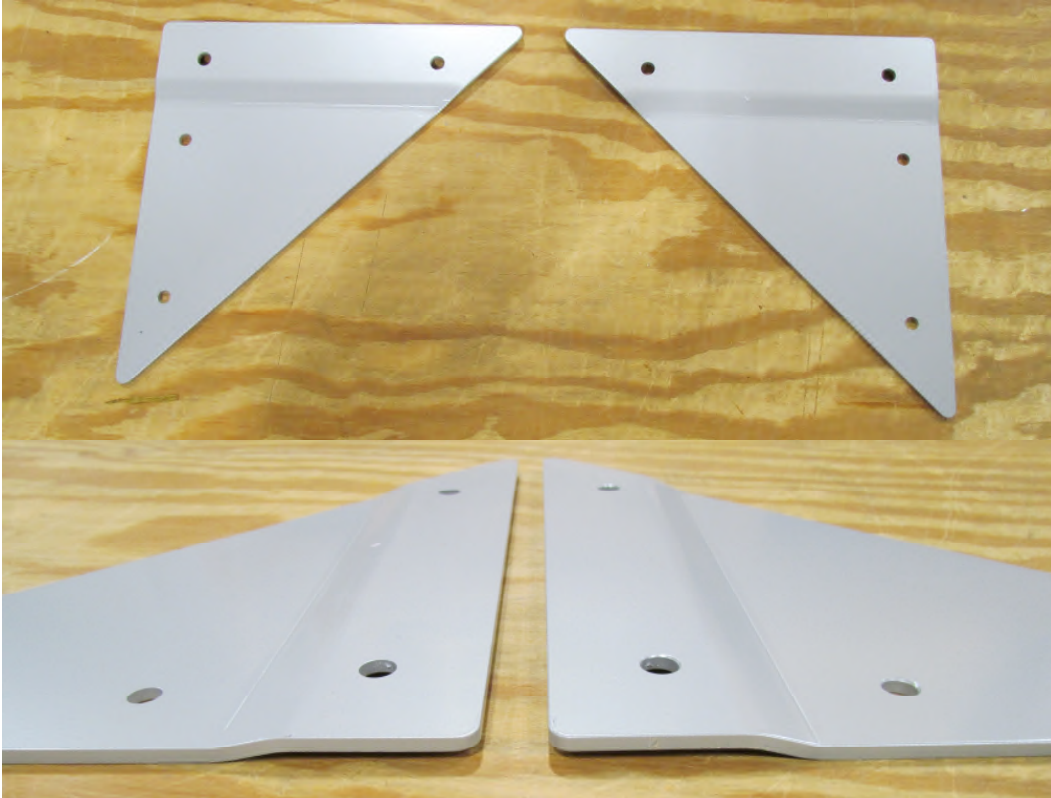




Select two 3 ½" Bolts with washers.

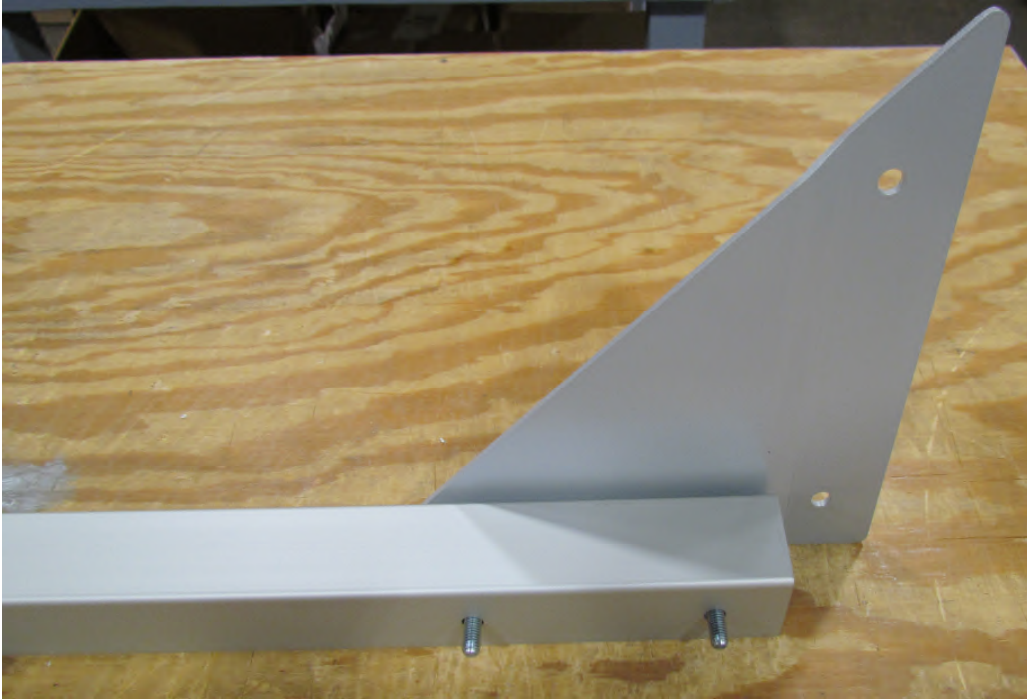


Next, select an opposite pair of Bent Upper Gussets.



The flat part of the Bent Upper Gusset is attached to the Upper Support. The bent part of the Bent Upper Gusset is attached to the Overhead Transverse Beam.

Place two 3 ½" Bolts through Bent Upper Gusset and Upper Support.

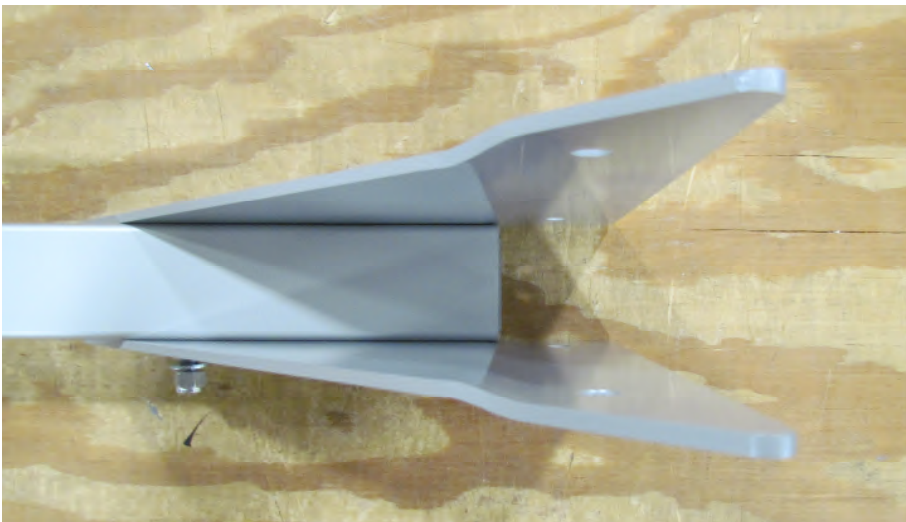


Place opposite paired Bent Upper Gusset on other side of Upper Support. Add Washers to bolts before tightening Nylock Nuts.





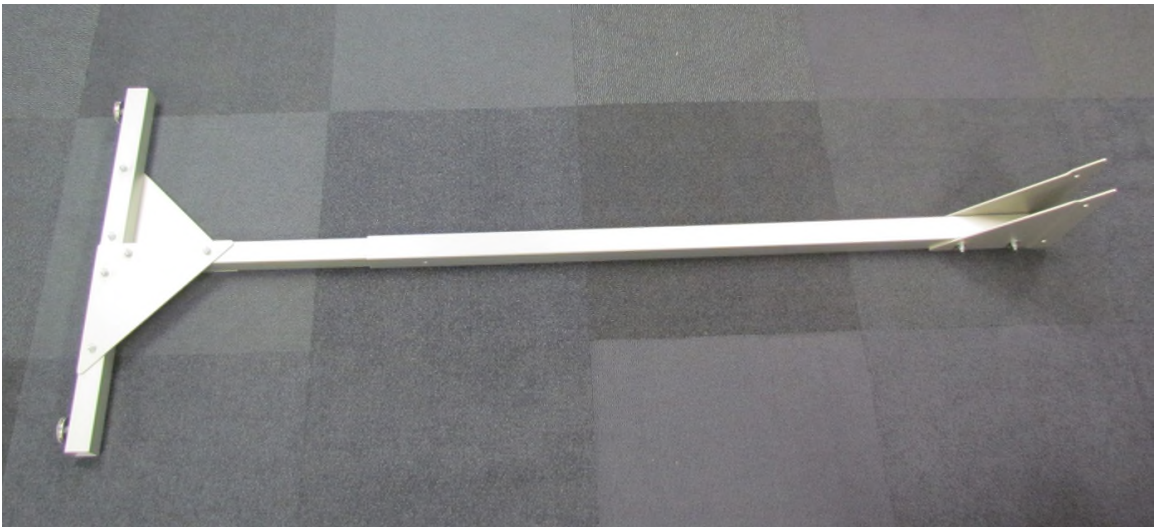
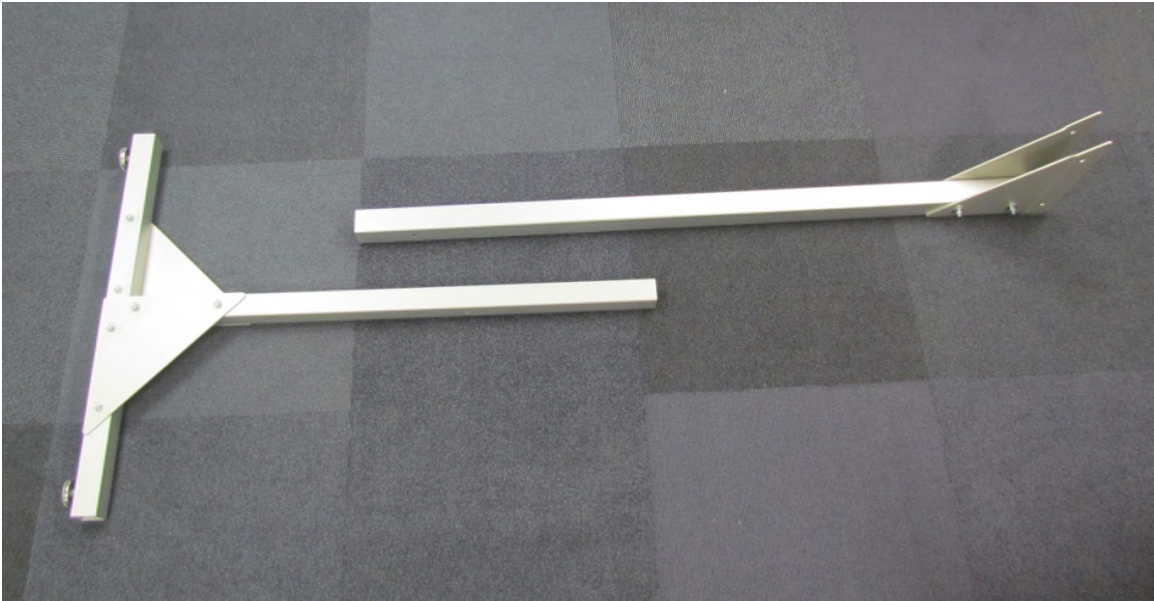
The Bent Upper Gussets should bend away from the Upper Support in order to support the wider Overhead Transverse Beam.



Repeat for second Upper Support.

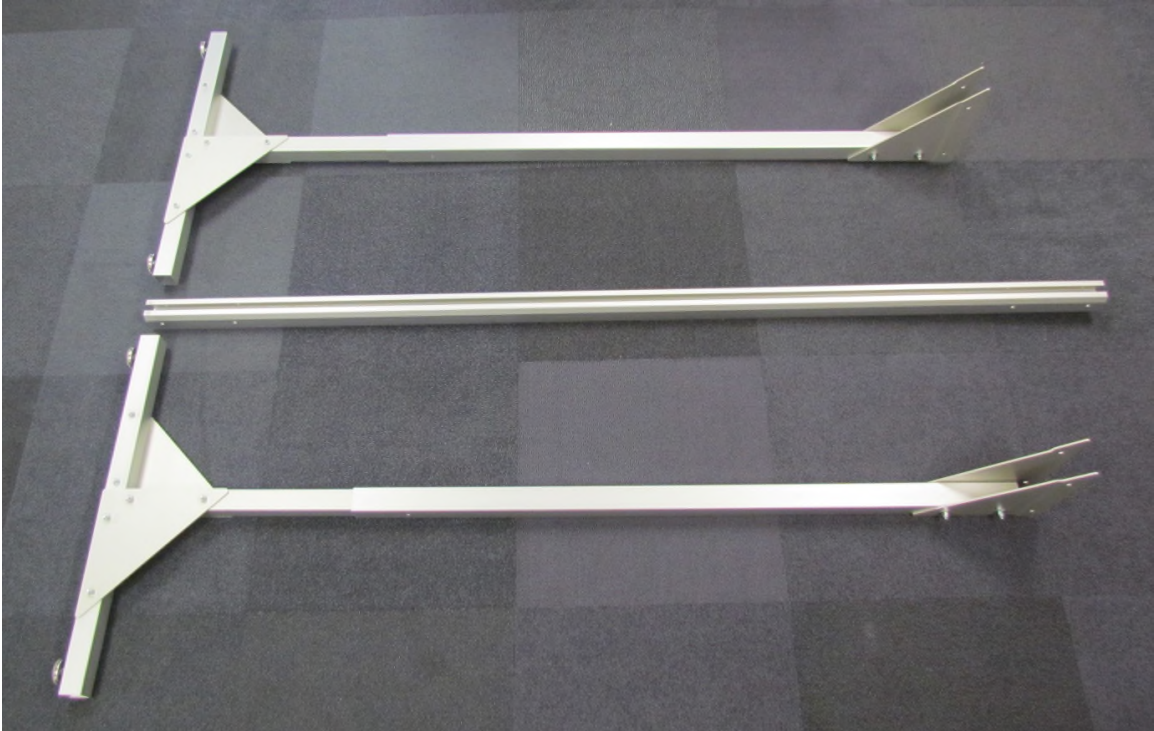


Join the assembled Lower Support with the assembled Upper Support. Line the two pieces up as shown below.



Slide supports together until they stop at base. Do not install the support hardware at this time.





Repeat process with 2<sup>nd</sup> Upper Upright Support and Lower Upright Support.

You may lean Upright Support against bed for convenience during this step.





Attach Transverse Beam, with open channel downward, to one Upright Support.



Install two 3 ½" Bolts with Nylock Nuts. Do not fully tighten nuts completely at this time.



Carefully install Lift Motor by sliding trolley wheels into bottom channel of open end of Transverse Beam. Roll Lift Motor to other end of frame. Be careful not to let Lift Motor roll out open end and fall.





Slide Transverse Beam into opposite Upright Support and attach with two 3 ½" Bolts with Nylock Nuts. Tighten all hardware connecting Beam with Upright Supports. Do not over-tighten.

## ATTENTION

When raising the frame to the higher working height, lift one Upright Support at a time. Do not attempt to lift both at the same time. Before lifting the first Upright Support, place Lift Motor on opposite (lower) end of the frame to keep it from rolling while lifting.

Place foot on Upright Support Base and lift the Upper Upright Support. Align holes on Upright Support pieces and attach one 2 $\frac{3}{4}$ " Bolt with nut and tighten. Repeat on other side of frame.

Cover all nut and bolt heads with the included nut caps.







Connect Remote Control by plugging into control panel. Next, place Lift Bar on bed and lower Lift Belt to connect them together.



Attach Lift Bar to the Lift Belt with the included stainless steel Link.



Hand-tighten Link to close completely. Raise Lift Belt and Lift Bar to Motor Housing.



Attach the Remote Control using the Hook & Loop tape included and place in a convenient location. We suggest attaching it to the Lift Bar or Lift Motor.



Plug Battery Charger in Lift Motor and outlet and charge battery overnight prior to first use. **Always unplug the charger before using the motor.**



The Battery Charger is equipped with a color-coded charging status light. It will progress from Red to Orange to Green once fully charged. Do not use the Lift Motor while the Battery Charger is plugged in. If the motor is to be unused or stored for any length of time, charge the battery periodically to maintain its health. Traxx Mobility Systems recommends charging every 5 - 7 days with normal use. We recommend monthly charging when unused or in storage.



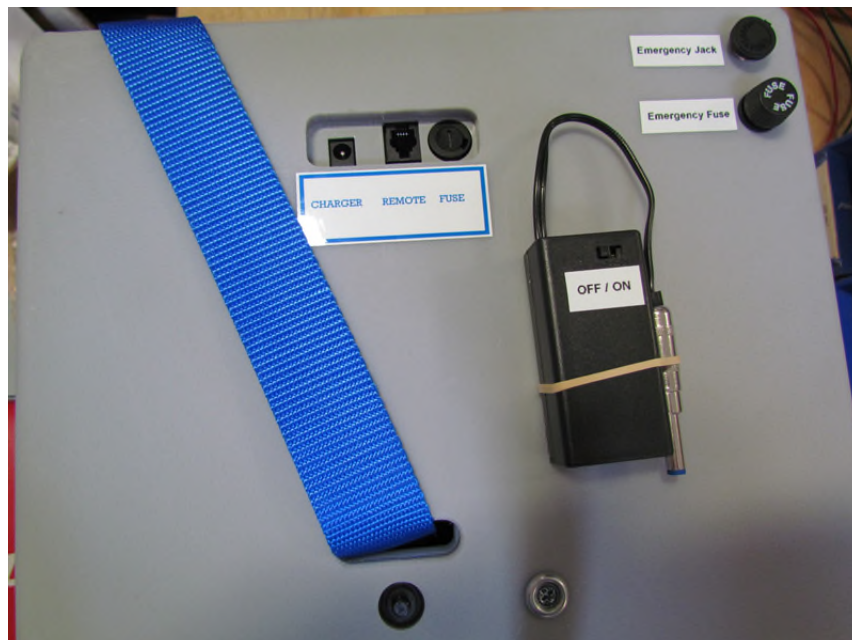
# IMPORTANT OPERATION INSTRUCTIONS

Your Lift Motor is equipped with a Travel Limit System designed to protect its components. This ensures the Lift Belt travels within a prescribed length. This will prevent any excessive wear on the Lift Belt or damage to the Lift Motor.

The Lift Belt will extend to pick a patient up from the floor. While the Lift Belt will not physically touch the floor, the belt will automatically stop at the lowest prescribed length of the travel limit system, allowing the Universal Sling to be attached to the Lift Bar.

At its highest point within the Travel Limit System, the Lift Belt will stop automatically before the secondary safety system, the Emergency Stop Block, engages.

The Emergency Stop Block system includes the blue “puck” attached to the Lift Belt and the small black “kill switch” on the bottom of the motor. This system will activate should the Travel Limit System fail at the highest lifting point. Pressing the black button will stop the motor from running while engaged. It is not a reset button. The Emergency Stop Block system works only in the UP travel of the Lift Belt.



The Transverse Beam and Lift Motor must be positioned over the patient's center of gravity, typically at chest level. Align the frame and Lift Motor so patient does not drag or swing during the lift. The Lift Belt must travel straight into the motor housing to avoid excessive wear and tear on the belt as well as protecting the components of the Lift Motor. The pictures below show incorrect Lift Belt positions for lifting.



We recommend you watch our Titan 500 Demonstration Video at [www.youtube.com/traxxmobilitysystems](http://www.youtube.com/traxxmobilitysystems) before using the lift. The Lift Belt should never be fully unwound and wound up backwards. Call customer service if you are having any trouble with the Lift Belt.



# OPERATION

**Disconnect Battery Charger before use.** Examine Lift Bar, Lift Belt and Universal Sling for any damage or fraying fabric. Our frame design and some other parts have been revised and may differ from the following photos. These upgrades do not affect the operation of the lift.

**Moving Patient from Bed to Wheelchair:** Do not attempt any transfer without prior approval of the patient's physician, nurse or medical assistant. The frame should cross the patient's chest.

With patient laying flat on bed, gently roll patient onto their side and place Sling folded on bed with tag side down and short straps toward the head. Gently roll patient onto their opposite side and pull sling under body, roll patient onto back and into sling. Center sling to make sure it is under patient's back and align the bottom of sling even with the patient's tailbone. Lift the patient's legs, one at a time, and position the leg straps by crisscrossing them under the patient's legs and thighs.



Maneuver Lift Motor and Lift Bar on the track over patient and lower with Remote Control until Sling straps can be positioned onto the Lift Bar. Always hold on to Lift Bar when not attached to Sling as it can swing and injure you or the patient. Hook the Sling straps firmly onto each point. The Sling features several loops that can be used in combination to place the patient in multiple positions. Keep patient's arms inside of Sling.



Lift patient using the Remote Control. Stop lift and adjust Sling during the lift as necessary. If patient is dragged, stop lift and place patient back in bed. Carefully adjust frame to ensure a straight lift. Never move the frame with a patient in the lift. When ready, move patient across beam and position over wheelchair (or other equipment in use) at side of bed.

Make sure if moving to a wheelchair the wheels are locked to prevent movement during the lift. Lower patient with Remote Control until patient is seated comfortably and safely in chair or wheelchair. Use strap on back of Sling to guide the patient's hips as far back as possible into the seat for proper positioning. Hold on to Lift Bar as you remove the straps and lift it back up to the Lift Motor so it does not swing and hit the patient or yourself.



The Sling can be left under patient or it can be removed. If Sling is left under patient, make sure straps are tucked in as not to catch on anything.

To remove the Sling, uncross leg straps and pull to side. Gently rock the patient slightly forward, carefully so as to not push patient out of the chair, and pull sling free from behind.





**Moving Patient from Wheelchair to Bed:** Make sure the wheels are locked. Gently lean the patient forward enough to slide the sling behind patient's back, with handle on the outside, down behind the patient's back to seat level. Gently lean patient back into place. From the front of the patient, tug both leg straps forward to ensure tautness and centering. Cross the straps under each other as you run them under each thigh and pull out to the opposite side. Ensure the straps are extended to the same length. Position patient under the motor and carefully lower the Lift Bar with remote control until straps can be attached to bar. Always maintain control of Lift Bar until tension from Sling straps hold it in place.



Lift patient with Remote Control above wheelchair or other device. Adjust Sling if necessary. Slide patient in Sling over center of bed and lower with Remote Control until sitting or lying comfortably and safely on the bed. Maintain control of Lift Bar until safely up and away from the patient's head and face. Remove Sling carefully from under patient by gently rolling them from one side to the other. Use bed rails if available.

## EMERGENCY REMOTE CONTROL

If for any reason your lift motor should stop functioning while lifting a patient, we have included an Emergency Remote Control that will safely lower the patient back to the point from which the lift began.

**PLEASE REVIEW ALL OF THE FOLLOWING INSTRUCTIONS BEFORE USING THE EMERGENCY REMOTE CONTROL SYSTEM. MISUSE CAN DAMAGE THE LIFT MOTOR.**

Your Emergency Remote has been shipped with a 9V battery for your convenience, but it has not been installed and should remain in this configuration until needed. If needed, simply remove the slide-off cover from the emergency remote, remove the battery and flip it around, then snap it into place. Your emergency remote is now powered and ready for use.

Position the patient and Lift Motor over the bed, wheelchair or other assistive device that you wish to lower the patient into. Disconnect the Standard Remote Control from the Lift Motor.

Locate the Emergency Fuse and Emergency Remote Jack on the bottom of the Lift Motor. These are black in color, labeled and protrude from the bottom of the Motor Housing. Gently remove the Emergency Fuse by pressing in and turning counter-clockwise a quarter turn. The spring-loaded Emergency Fuse will pop out.



Make sure the 9V battery is installed correctly and the switch on the Emergency Remote is in the OFF position.

Plug in the Emergency Remote into the Emergency Remote Jack and turn it ON. The Lift Motor will SLOWLY lower the patient. Turn OFF the Emergency Remote once the patient is safely in their bed, wheelchair or other assistive device. Be sure to lower patient enough so the Sling can be removed from the Lift Bar. Maintain control of Lift Bar so patient is not injured. Unplug the Emergency Remote.

Assist patient by removing Sling from Lift Bar. The Lift Bar will not be able to be lifted away from the patient so carefully slide the Lift Bar and Lift Motor away from the patient.

**DO NOT USE THE EMERGENCY REMOTE TO OPERATE THE LIFT MOTOR ANY LONGER THAT IS NECESSARY TO RETURN PATIENT TO A SAFE, STABLE AND SECURE POSITION.**

All safety systems are disabled when the Emergency Remote is in operation. Be careful not to leave the Emergency Remote running as this can fully unspool and spool the Lift Belt up backwards, which will damage the Lift Motor.

Once the patient is safe and secure, replace the Emergency Fuse by gently pressing in while turning clockwise a quarter turn. Plug in Standard Remote Control and troubleshoot. If the Lift Motor is functioning correctly, no further action should be necessary. If normal operation is not available, please contact Customer Service (855-872-9967) or your Traxx Authorized Dealer.

The Emergency Remote Control contains a 9V battery. We recommend replacing the battery after any emergency use or after a period of 1 year in storage without use.

We recommend you attach the Emergency Remote to your Lift Motor with the Hook and Loop tape included so it is always readily available. If you have any questions about the Emergency Remote Control system, please call Customer Service at 855-872-9967.

# MAINTENANCE

Proper maintenance and care is essential to keeping the Titan 500 in safe operating condition.

Make sure battery is kept charged – Battery charge level is directly related to the number of lifts and the patient's weight. The heavier the patient is and the more transfers completed, the more battery capacity is used. The average patient (180 lbs.) should be able to be lifted and transferred over 50 times in one complete battery charge. However, **Traxx recommends the battery be kept fully charged at all times.** With the average patient, that can be at least once a week. We recommend picking one day a week and let charge over-night. Battery charger can be left on overnight and will automatically shut off when battery charge is complete. Indicator light on charger glows red when charging, orange when maintaining charging level and green when fully charged. **Remove charger before operating lift.**



## **Cleaning the Traxx Titan 500**

Regular cleaning is recommended. The lift system can be cleaned with a soft cloth, dampened with water and a non-abrasive cleaner. The Sling is machine washable in warm water with non-chlorine detergent and tumble dry on low heat or by hang drying.

## **Inspecting System for Damage or Deterioration**

Inspect for any appearance of damage or deterioration of Frame and Lift Bar, if there is, do not use. Check to make sure the Motor Unit moves freely in the Overhead Beam. Ensure all hardware is tight.

Check for fraying and other damage on Sling, Sling straps or Lift Belt. If any, please call Customer Service (855-872-9967) and replace with new Sling or Lift Belt before transferring patient. We recommend replacing the Sling yearly with heavy use.

Call Customer Service (855-872-9967) and replace any defective parts immediately. Make sure patient lift is not in use until repairs are made. Contact us with any questions or concerns at the phone number above or by email, [custserv@traxxms.com](mailto:custserv@traxxms.com).

# WARRANTY



## Limited 1- Year Warranty

Traxx Mobility Systems LLC -TITAN 500 is warranted to be free from defects in material and workmanship for a period of one (1) year from the date of purchase of original purchaser. Traxx Mobility Systems LLC agrees to repair or replace the product, at our option, at no charge, if, during the warranty period, it is returned to our factory, and if our inspection reveals that the product is defective. Charges for removing or installing the product are excluded under the terms of this warranty agreement. Products returned without an authorization number will not be accepted. Please call Traxx Mobility Systems LLC at (734) 744-8100 for Return Material Authorization (RMA).

### LIMITATION OF LIABILITY

Repair or replacement of this product, as provided herein, is your exclusive remedy. Traxx Mobility Systems LLC shall not be liable for any special, incidental or consequential damages, including, but not limited to rental of replacement equipment, downtime, damage to property, and third-party claims, arising out of any theory of recovery, including warranty, contract, statutory or tort. Notwithstanding the term of any limited warranty or any warranty implied by law, or in the event that any limited warranty fails of its essential purpose, in no event will Traxx Mobility Systems LLC entire liability exceed the purchase price of the product. Some states/provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights and you may also have other rights that vary from state to state and province to province.

This warranty shall not apply to any product which has been opened by an unauthorized person or subject to connection to a faulty power source, alteration, negligence, or accident, or to any product which has been installed or operated in a manner inconsistent with the Traxx Mobility Systems LLC Installation and Operation Manual.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. IN NO EVENT SHALL TRAXX MOBILITY SYSTEMS LLC BE LIABLE FOR DAMAGES FOR A BREACH OF WARRANTY IN AN AMOUNT EXCEEDING THE PURCHASE PRICE OF THIS PRODUCT.