Commercial Trus<T>Lift Installation Instructions

The Commercial Trus<T>Lift is pre-assembled and tested in the factory before shipping. The lift is then disassembled into the components shown in Figure 1. *All fasteners required to assemble the lift are re-installed in their respective positions after disassembly, except for the Lower Mechanical Stops (5/8" X 3" Carriage Bolts) included with the small parts bag.*

READ THIS MANUAL STEP BY STEP! - ALL INSTALL QUESTIONS AND ISSUES ARE COVERED

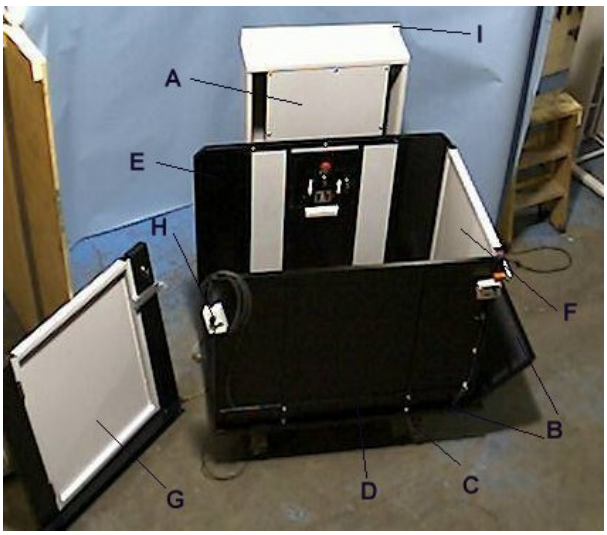


FIG. 1- PARTS INCLUDED WITH A STRAIGHT COMMERCIAL UNIT

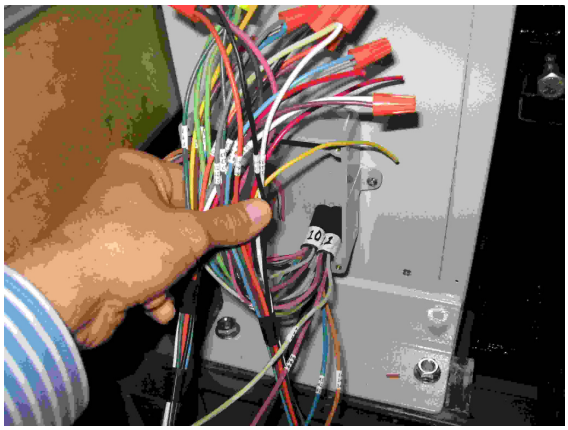


FIG. 2- MAKING CONNECTIONS IN OUTSIDE JUNCTION BOX

Straight or Adjacent Access Unit

- Carefully unpackage the Commercial Trus<T>Lift components, confirm the following parts as shown in Fig. 1 are included:
    - Trus<T>Lift Tower Part A
    - Carriage with Toe Plate Part B
    - Base Frame Part C
    - Solid Handrail Part D
    - Control Wall Extension Part E
    - Carriage Gate Part F
    - Upper Gate Part G
    - Lower Remote Call Station Part H
    - Tower Mounting Angle Part I

Adjacent Unit will also include a corner post (not shown)

- Install the base frame and tower according to the *Trus<T>Lift Installation Manual* Pages 1-1 to 2-3
- The installation of a commercial unit differs from a base unit in that it requires all peripheral safety devices (i.e. upper interlock, lower interlock and safety Pan) to be wired up at least temporarily in order to run the motor.
- Temporarily connect the upper-gate/interlock wire harness and the lower-door/interlockwire harness (if provided) to the matching numbered wires in the outside junction box located on bottom left hand side of tower. The interlock gate latches must be inserted into the head of the interlock and the interlocks must be set to the locked position for the lift to operate. Fig. 2
- If your lift was supplied with an under-platform safety pan you will need to use the manual cranking device for movement in the down direction. Instructions for lowering are located on the top right hand side of the tower. Use caution when lowering the guide frame as you do not want

to lower the drive nuts, held in by the temporary drive nut retainer strap, out of the channel

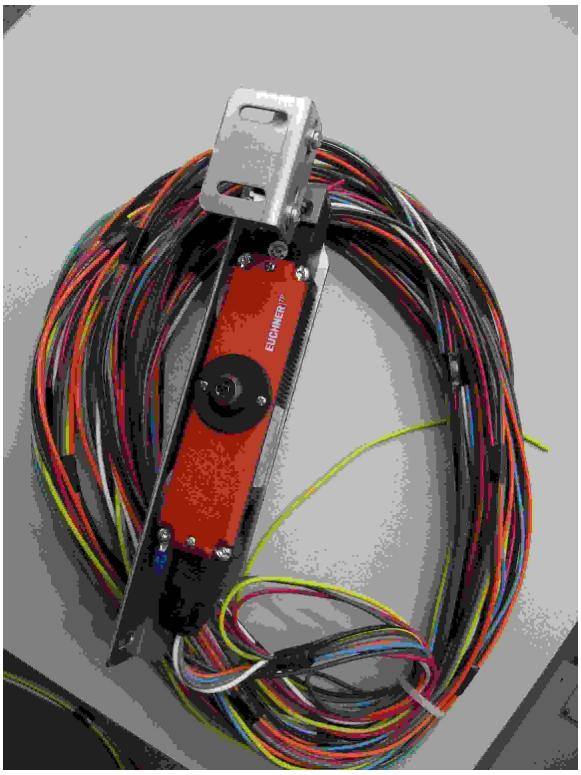


FIG. 3- INTERLOCKS MUST BE LOCKED FOR LIFT TO RUN PROPERLY

- On the end of the power cord you will find the gold key to open the control box, use this to open the main control box by pushing in hard on the box with one hand to compress the weather seal while turning the key with the other hand
- All other keys for the unit will be hanging on the back of the control box door
- The Interlocks (both on the carriage and the upper gate) should be in the “Locked” Position as in Fig. 3 for the Trus<T>Lift unit to run
- Plug the unit in or hard wire it to an outlet providing 120 V.A.C. and 15 AMP protection

FIG. 4- PLUGGING IN UNDER DECK SAFETY LIMITS

- The lift will now be ready to run up using the main controls providing the silver key on the center of the control box is turned to the right
- Install the lifting platform as per the instructions in the *Trus<T>Lift Installation Manual*
- *Remember for movement in the down direction prior to having the platform installed you will need to use the manual crank to lower the device. The manual crank is a 3/8” Drive Ratchet with a 12” Extension*
- Once platform is bolted on then plug the Under Deck Safety Limits into the Inside Junction Box as shown in Fig. 4. Once plugged in the unit will now run up and down without having to use the manual crank

FIG. 5A- INSTALLING CONTROL WALL EXTENSION

- Mount the Control Wall Extension to the Guide Frame as shown in Fig. 5A/4B.
- Fasteners- (6X) 10/32 X ½" Flathead screws with (6X) Chrome Finishing Washers

FIG.5B- FASTENING CONTROL WALL EXTENSION TO GUIDE FRAME

FIG. 6A- LOWER THE HANDRAIL INTO PLACE

- For a Straight Access Unit Mount the Solid Handrail to the Carriage as shown in Fig. 6A/6B
- Fasteners- (4X) 5/16 X 1¾" Bolts, (8X) 5/16 Washers, (4X) 5/16 Locknuts)

FIG. 6B- BOLT HANDRAIL TO CARRIAGE

FIG. 7A- LOWER SAFETY PAN TO ACCESS BOLT HOLES

FIG. 7B- ADJACENT HANDRAIL MOUNTING

- For an Adjacent Access Unit Mount the Solid Handrail to the Carriage as shown in Fig. 7A/7B, the safety pan must be lowered to access the mounting holes. After mounting the Solid Handrail attach it to the Control Wall Extension using small 1" Angle, remount safety pan to finish

- Fasteners- (3X) 3/8 X 1¼" Bolts, (3X) 3/8" Locknuts, (2X) 10/32 X ½" Screws

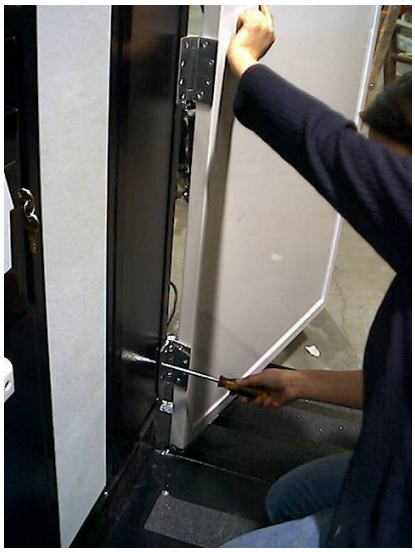


FIG. 8- MOUNTING GATE TO CONTROL WALL EXTENSION

- Mount the Carriage Gate to the Control Wall Extension as shown in Fig. 8.
- Fasteners- (8X) 12/24 X ½" Flathead Screws

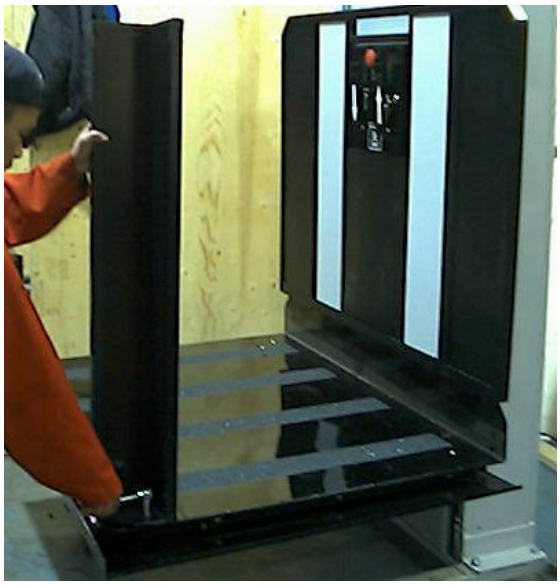
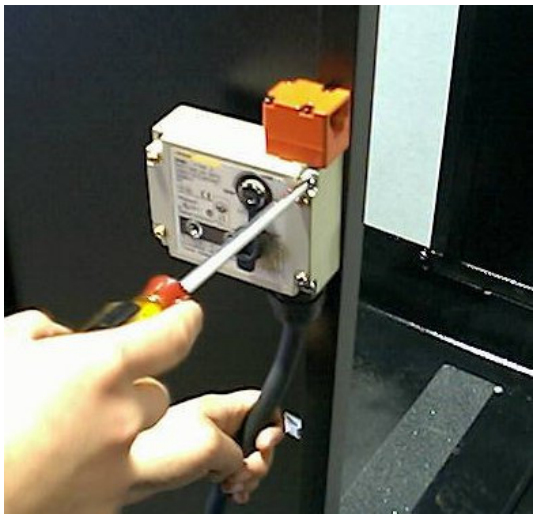


FIG. 9- MOUNT CORNER POST FOR ADJACENT UNIT

- On Adjacent Units mount the corner post as shown in Fig. 9. Square it to Carriage Gate, if necessary shim with washers provided

FIG. 10- RUN CABLE UNDER TOE PLATE

- Run Interlock cable under the toe plate as in Fig. 10

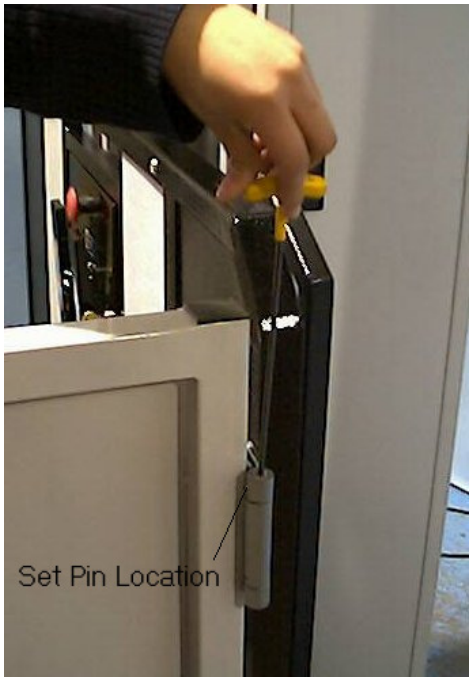


- Mount the Carriage Gate Interlock to the Solid Hand Rail for a Straight Unit and to the Corner Post for an Adjacent Unit as shown in Fig. 11. Then remount the interlock tab to the gate door latch.
- Fasteners- (2X) 10/32 X 1½" Screws

FIG. 11- MOUNT INTERLOCK TO SOLID HANDRAIL (MAY NOT BE SAME INTERLOCK AS PICTURED)

- Adjustment of the Interlock Key Tab may be necessary to allow proper alignment, loosen the (2X) 10/32 X ½" screws mounting it to the Aluminum Gate Tab and adjust as necessary as shown in Fig. 12

FIG. 12- ADJUST INTERLOCK KEY TAB IF NECESSARY (MAY NOT BE SAME AS PICTURED)



- Adjust the Spring Loaded Hinge on the Carriage Gate as shown in Fig. 13, this allows the gate to self-close against the Interlock.
- Use a 5/32" Allen Key to release the tension on the loaded pin (turn clock wise)
- Remove the set pin from the hinge
- Increase tension (clock wise) or decrease tension (counter clock wise) and reinsert the set pin

FIG. 13- ADJUSTING SPRING LOADED HINGE

FIG. 14- FASTEN CABLE TO SAFETY PLATE USING STRAPS

- Fasten the Carriage Gate Interlock Cable to the Safety Plate under the Toe Plate using the plastic Nylon Tie Straps provided as shown in Fig. 14

FIG. 15- DRILL THROUGH BOTH ANGLE EDGES TO FASTEN GATE TO THRESHOLD

- Mount the Upper Gate to the threshold at the upper landing as in Fig.15
    - Drill through the 5” X 5” Angle on the Upper Gate frame at suitable locations to provide adequate mounting holes for the angle, lag bolt or screw into place. ***OR*** Use a Polyurethane Adhesive to mount the threshold to the upper landing

FIG. 16- USE ADHESIVE TO FASTEN GATE TO EXISTING STRUCTURE

- Use a Polyurethane Adhesive to mount the Upper Gate Post uprights to the existing structure as in Fig. 16

*When using the Polyurethane Adhesive adequate clamping and support must be in place until the adhesive sets properly (**NOTE CLAMP IN FIG. 15**)*

FIG. 17- MOUNT LOWER CALL STATION

- Unplug the unit in or shut off power
- Mount the Lower Remote Call Station in a suitable location as in Fig. 17

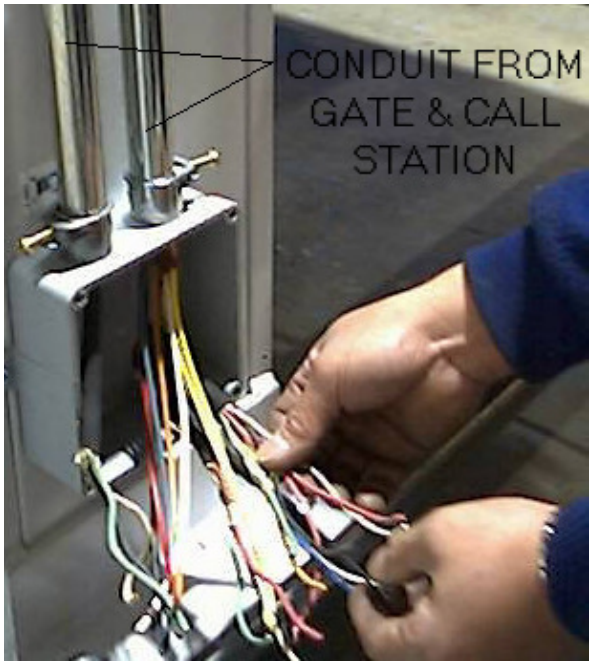


FIG. 18- WIRING OUTSIDE JUNCTION BOX

- Disconnect your temporary connections of the upper gate/interlock to the outside junction box- ***do not cut the wire numbers off, you will need them again!***
- Run electrical conduit from the call station to the Outside Junction Box and the Upper Gate to the Outside Junction Box. The outside junction box is located on the bottom left side of the Trus<T>Lift tower
- Run the cable from the Call Station and the harness from the Upper Gate through the conduit to the Outside Junction Box
- Reconnect the wires in the outside junction box, this time including the wires from the lower call station Fig 18
- Restore power to the unit

- ****Some commercial units have a UPS power supply to unlock the gates. This is located in a larger junction box on the left hand side of the tower. For the doors to open properly remove the cover from the box and ensure the UPS power supply is turned on and has charged fully overnight****

FIG. 19- REMOVING FRONT COVER PANEL

- Remove the front panel from the Trus<T>Lift Unit as shown in Fig. 19.

FIG. 20- INSTALLING MECHANICAL STOPS

- Insert the (2X) 5/8”X3” Carriage Bolts and 5/8” Jam Nuts into the Lower Mechanical Stop brackets on the underside of the guide frame as shown in Fig. 20. Thread the bolts into the Mechanical stops so that the heads of the bolts are about ¼” lower than the bottom of the safety pan on the carriage. *(You can use a level to touch the underside of the safety pan and extend it towards the heads of the bolt**s**)* **For normal operation the mechanical stops must be the first point of contact with the ground when the lift arrives at the lower landing. If they are not then the lower carriage gate door interlock will not open**.

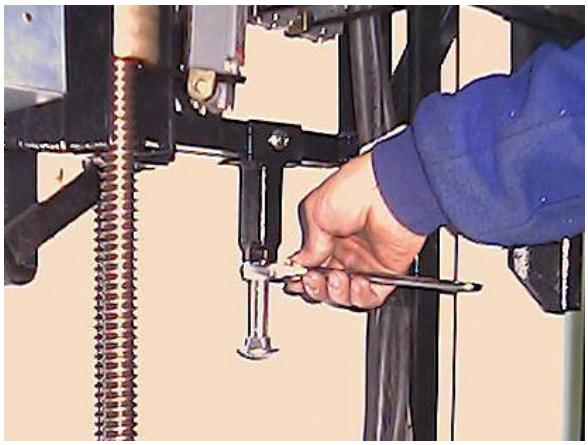


FIG. 21- TIGHTEN LOWER MECHANICAL STOPS

- Once the mechanical stops are adjusted and the carriage gate is unlocking properly lock the stops in place using the jam nut as in Fig. 21.

- The electrical limit switch stop for the upper landing is controlled by adjusting the Upper Limit Adjusting Bracket as described in the *Trus<T>Lift Installation Manual on page 2-7 Fig.17*

FIG. 22- MOUNT TOWER TO EXISTING STRUCTURE

- Mount the tower to the existing structure as in Fig. 22. Instructions are included with the tower-mounting angle

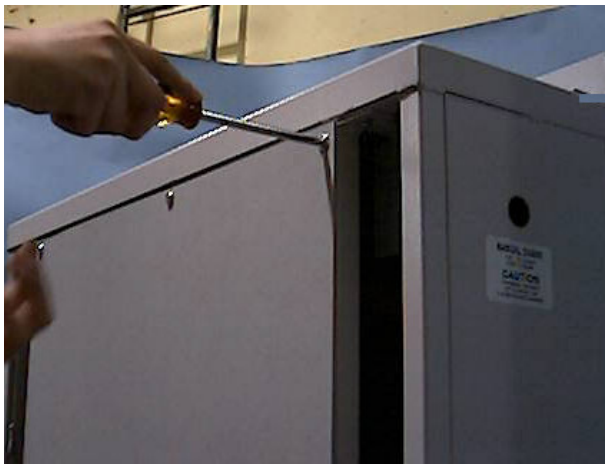


FIG. 23- INSTALL FRONT PANEL

- Reinstall the Front panel into the Trus<T>Lift Unit as in Fig. 23