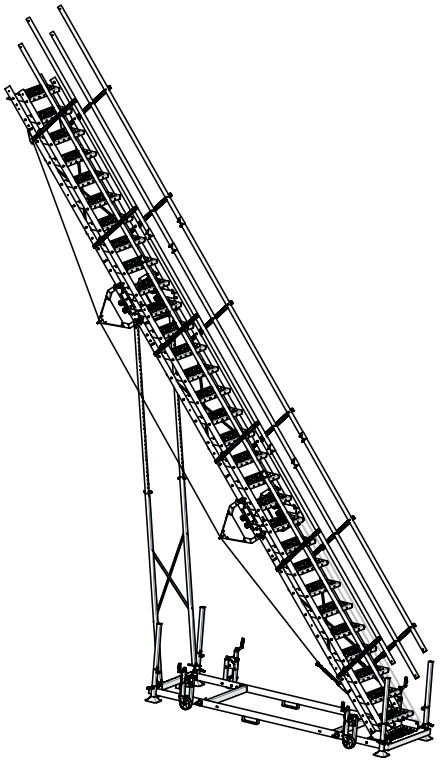
TIE DOWN
MANUFACTURING INGENUITY

# SUPER STEPS Installation & Safety Manual

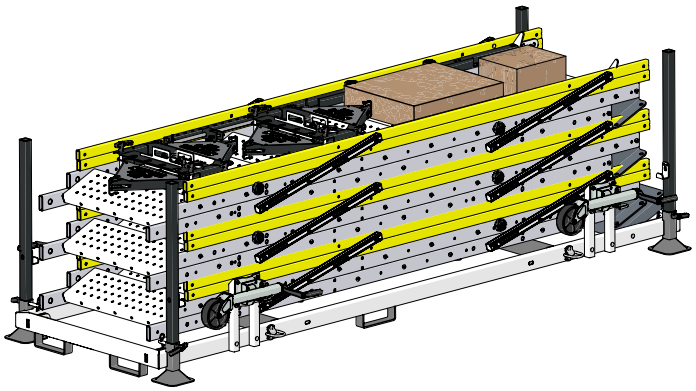


**30 Inch Wide Super Steps**

| | |
|---|---|
| Part ID: 72918 | 3 Modules and Pallet |
| Part ID: 72910 | Single Module |
| Part ID: 72916 | Shipping Pallet |

**40 Inch Wide Super Steps**

| | |
|---|---|
| Part ID: 72920 | 3 Modules and Pallet |
| Part ID: 72919 | Single Module |
| Part ID: 72917 | Shipping Pallet |



**Tools Required:**
1/2" Impact Driver
9/16" & 3/4" Sockets
9/16" Wrench

TIE DOWN SUPER STEPS

MADE IN THE USA

Online Manual

## ⚠ WARNING ⚠

Serious injury or death may occur if this equipment is used for purposes other than intended. Tie Down provides the following instructions for the use and care of this equipment. It is the responsibility of the user to understand and convey proper instructions to any and all individuals who use this product. SUPER STEPS complies with the requirements set forth by the Federal Occupational Safety and Health Administration (OSHA) when used according to the manufacturers' instructions.

⚠ **WARNING:** This product can expose you to chemicals including Nickel, which is known to the State of California to cause cancer. For more information go to: www.P65Warnings.ca.gov

Instruction #08426 (E1928 - Rev. 11/14/23)

TIE DOWN
MANUFACTURING INGENUITY

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# Super Steps Installation

Tie Down Safety's Super Steps Portable Stair System provides a safer alternative for ladders on job sites. The Super Step is faster and safer than ladders when workers require reliable access between project floors. Super Steps replace traditional wooden worksite steps or standard ladders. They are easier to set up, easier to inspect, fully adjustable, and can be used in any location on the job site. The Super Step arrives on the job site, ready to use right out of the box. The 48" x 140" frame holds up to three modules and can be stacked three high when in transit or being stored.

**Table of Contents:**



## SUPER STEPS Installation and Safety Manual

⚠ These installation instructions are essential for the successful and safe operation of the SUPER STEPS. The operating instructions contain important information. Your attention is required to maintain that the SUPER STEPS are safe, operated properly and is economically used. Your attention helps avoid dangers and the ensures reliability and lifetime of the SUPER STEPS.

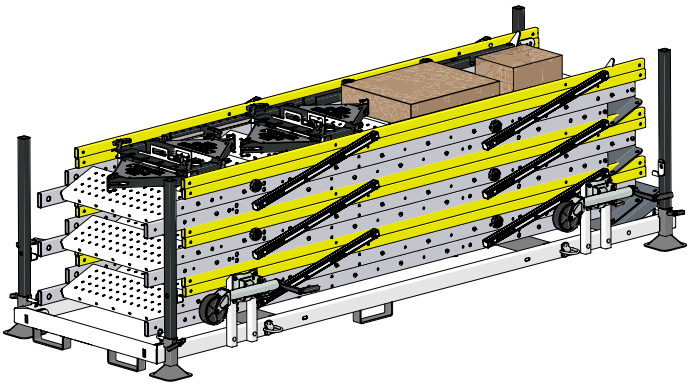
**Installation Instructions Disclaimer**

The SUPER STEPS instructions must always be available, read and applied to any person who installs/operates the SUPER STEPS while:

- Operating the Equipment.
- Troubleshooting the Equipment.
- Assisting in the Use of Equipment.
- Assembly of Equipment.
- Storage of Equipment.
- Maintenance, care, repair and/or any operations tasked for the SUPER STEPS.

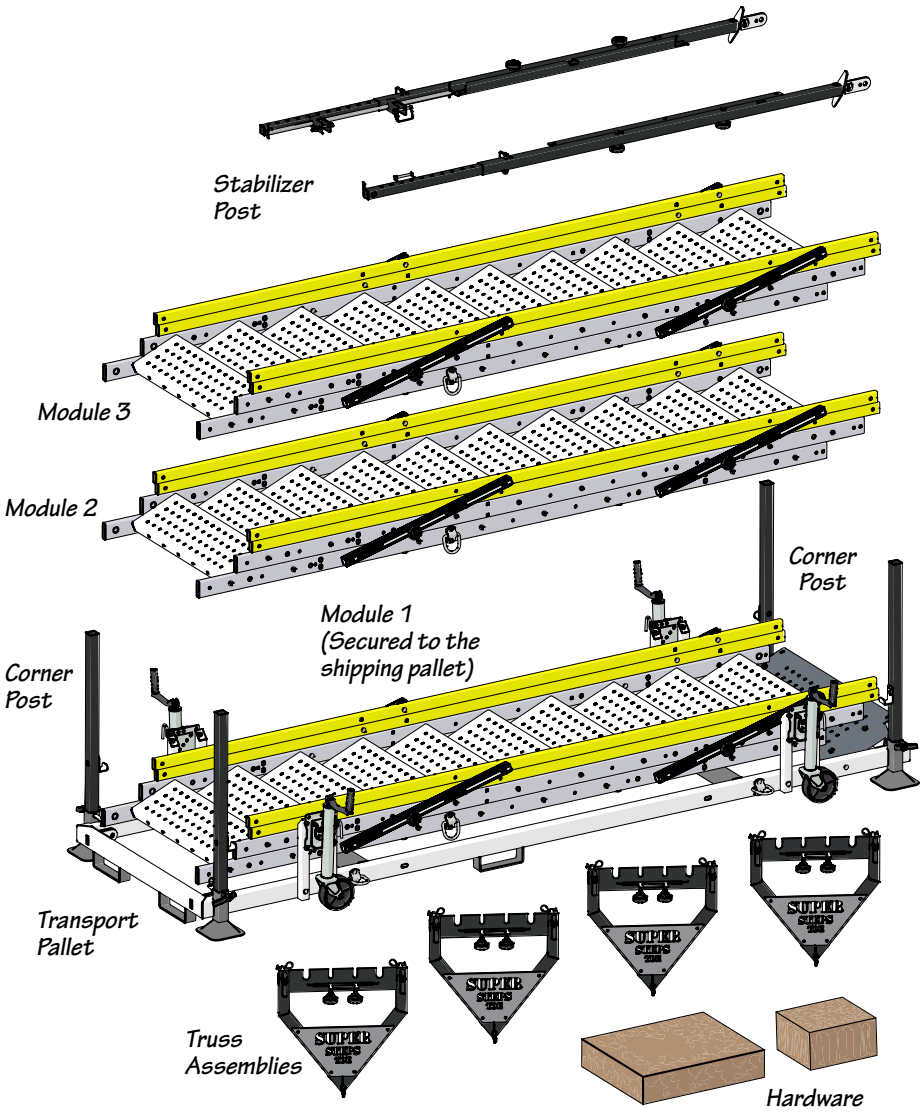
# Super Steps Parts

Your new SUPER STEPS portable stairs ships on a multi functional shippable pallet. In addition the pallet servers as the SUPER STEPS foundation base.



The SUPER STEPS Pallet contains:

- 3 Fully assembled step modules
- 1 Transport Pallet
- 4 Welded truss assemblies
- 1 Telescoping brace assembly
- 2 Hardware kits:
  - (1) Splice plates and mounting hardware
    Tensioning cable with loop and turnbuckle
    Handrail cuffs with pins
  - (2) Telescoping brace support hardware



# SUPER STEPS Work Site Placement

The SUPER STEPS system is adjustable in height from 6' up to 24'. Using the chart below (Fig 4-1) determine the number of SUPER STEPS modules will be needed for your work site location. All height's between 6'-24' is adjustable between 30˚ up to 50˚.

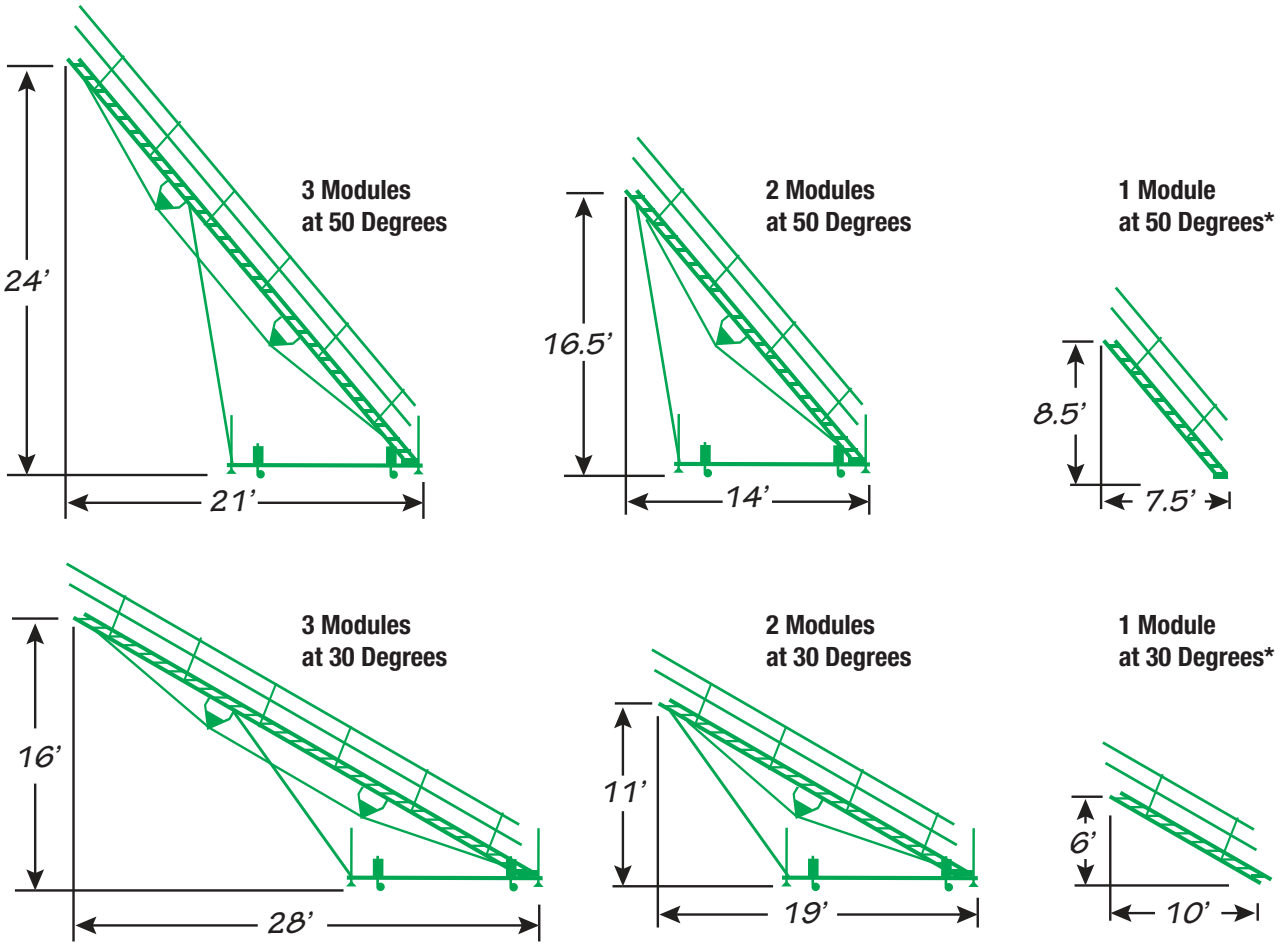



Fig 4-1

* Note: The transport pallet is not used with a single unit module

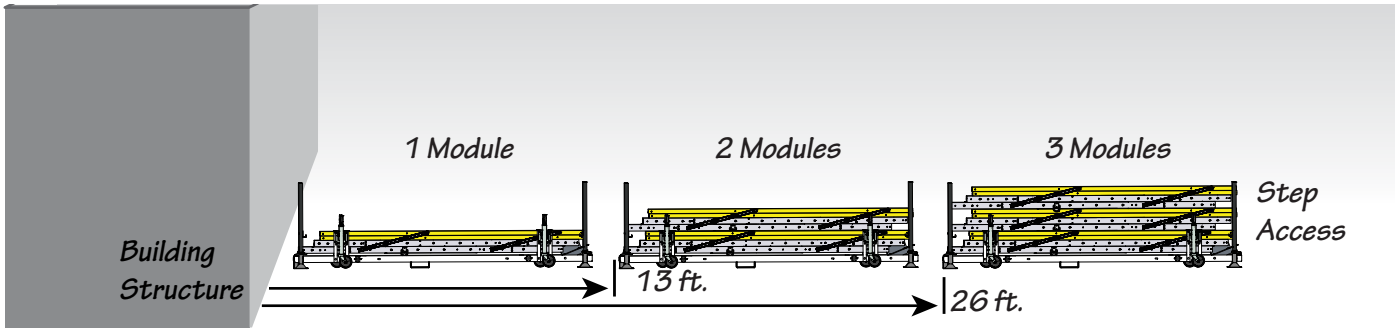



Fig 4-2

**STEP 1 Positioning the SUPER STEPS Pallet**

- The SUPER STEPS pallet must be positioned perpendicular to the building structure.
- Using a forklift, place the SUPER STEPS pallet in position perpendicular to the building structure according to the number of modules as shown above in Fig. 4-2.

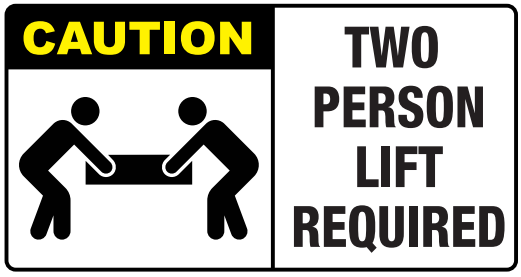
# SUPER STEPS Pallet Set Up

**STEP 2 Unloading the SUPER STEPS**

- Remove the cotter pin from pull pin located at the bottom of each corner post. See Fig. 5-1.
- Remove the corner post, repeat for each corner post.

**Note: A minimum of two workers are required to remove the step modules.**

- With a worker on end of the SUPER STEPS pallet Lift and remove the top module.
- Place the module on the ground just in front of the pallet.
- Left and remove the second module. Place the module on the ground (if needed) directly in front of the pallet.



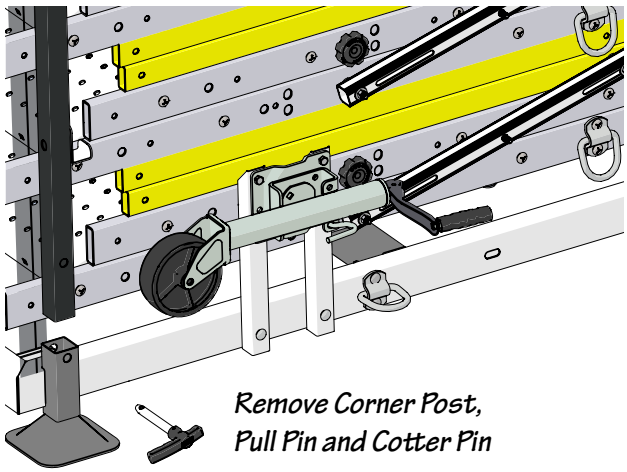




Fig 5-1

**STEP 3 Setting Up the SUPER STEPS Base**

- Working in front the wheel jacks, pull out the wheel jack pivot pin.
- Allow the wheel jack to rotate 90˚ with the wheel downward.
- Release the wheel jack pivot pin. You should hear/feel the pin lock in position.

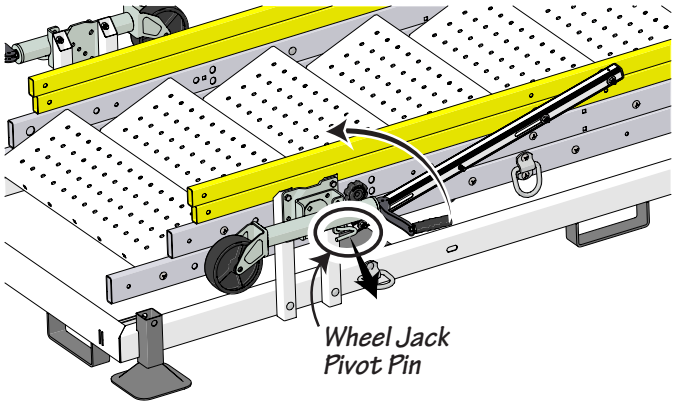



Fig 5-2

**STEP 4 Raising SUPER STEPS Base**

- Crank each wheel jack clockwise to raise the pallet.
- Each wheel jack should be 2-3 inches off the working surface.
- The entire SUPER STEPS base should roll freely in any direction.

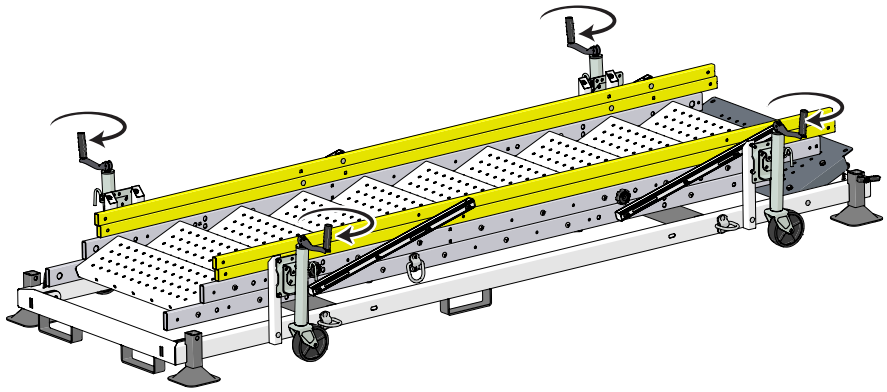


Fig 5-3

# SUPER STEPS Module Assembly

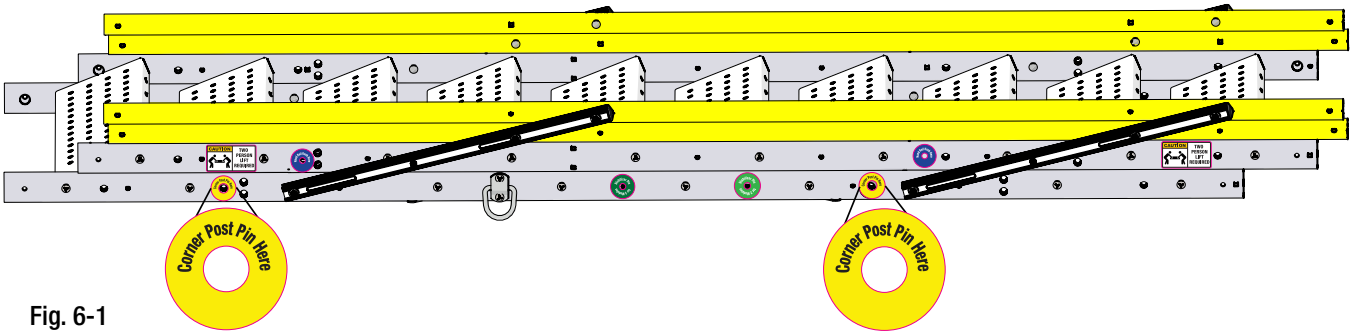



Fig. 6-1

**STEP 1 Attaching Modules**
**NOTE: Minimum two workers are required for module assembly. Four workers working on each corner can skip to Step 4 and lift the module into place.**

Each SUPER STEPS module will have pin hole location labels on the sides.

- Place the two corner post and pull pins along each end of the module.
- One worker per side working from the end of the module.
- Lift one end of the module about a foot.
- Position a corner post with the tab facing the module.
- Align the corner post with the yellow “Pin Here” label.
- Lower the module so that it rest on the two corner post.
- Insert the pull pin through the corner post and module as shown in Fig. 6-2.
- Repeat for opposite side module.

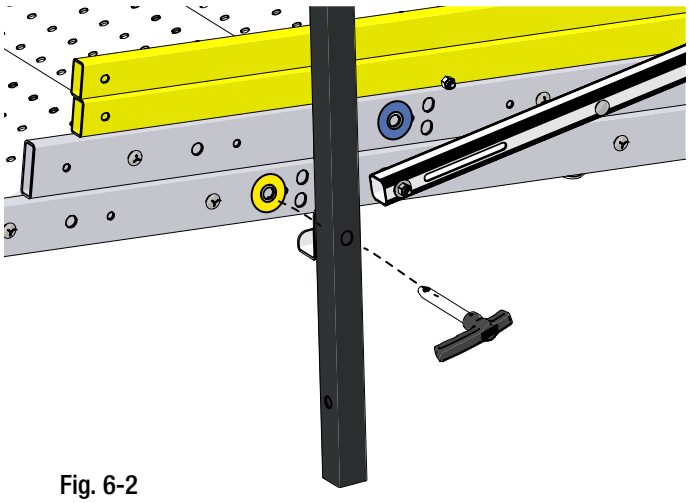


Fig. 6-2

**STEP 2 Attaching Modules**

- Lift up the opposite end of the module and repeat Step 1 for the two remaining corner post as shown in Fig 6-3.
- The module should be level with the ground surface.

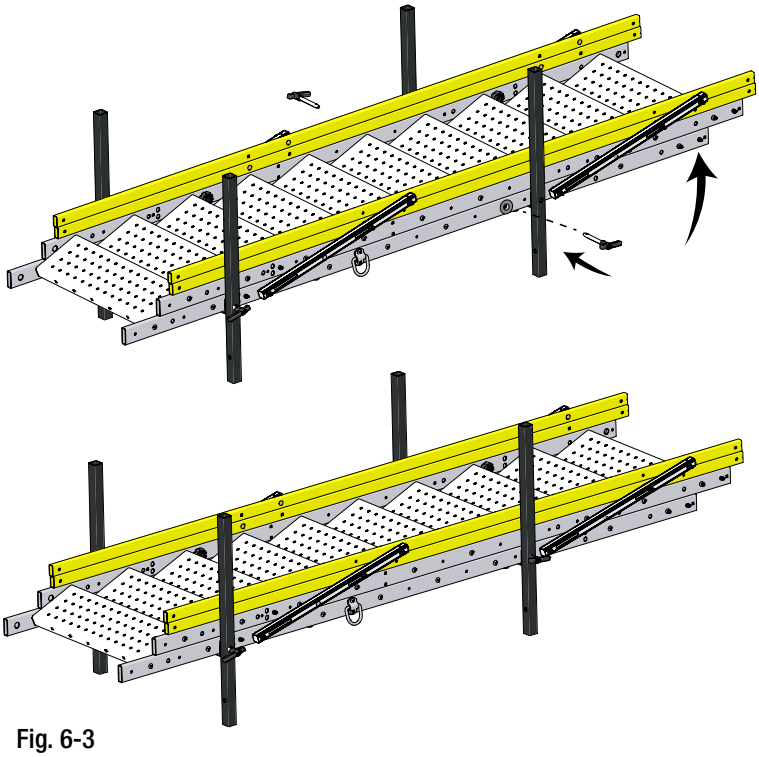


Fig. 6-3

# SUPER STEPS Module Assembly

**STEP 3 Attaching Modules**

- Locate (4) splice plates & (8) 3/8”x1” carriage bolts and matching nylock nuts from the supplied hardware.
- Working from the back. Insert splice plates into each end of the step side rails. As shown in Fig. 7-1.
- The splice plate should stop or nest with a installed step carriage bolt.
- Working from the inside the step rails, insert 3/8”x 1” carriage bolt through the step side rail and through the splice plate to the opposite side rail.
- Secure the carriage bolt with a 3/8 nylcok nut and hand tighten.
- Repeat for the remaining three splice plates.

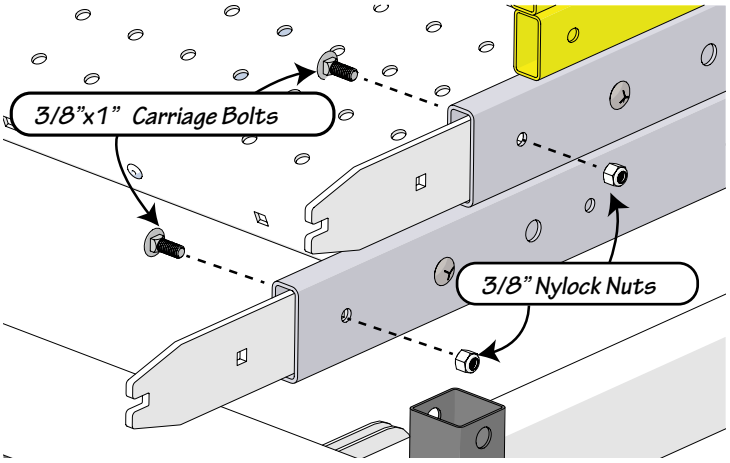



Fig. 7-1

**STEP 4 Attaching Modules**

In the event 4 workers are assisting in the assembly they can lift module 2 into place aligned with the pallet module 1 as shown in 7-2.

If only two workers are available:

- With one worker on each side of the pallet module 1, align the splice plates to the module 2 step side rails. As shown in Fig. 7-2.
- Roll the pallet module 1 into the step side rails on module 2. Making sure that all 4 splice plates fit into each step side rail for the 2nd module.

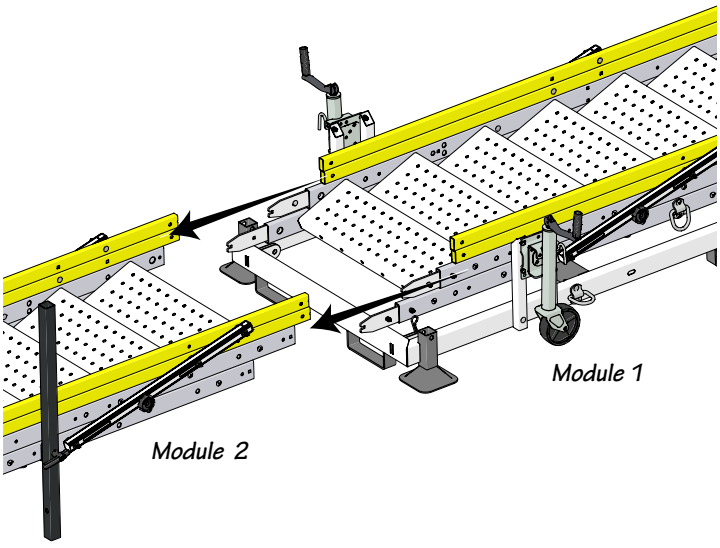



Fig. 7-2

**STEP 5 Attaching Modules**

- Working from the inside the step rails on module 2, insert 3/8”x 1” carriage bolt through the step side rail and through the splice plate to the opposite side rail.
- Secure the carriage bolt with a 3/8” nylock nut and tighten all bolt firmly.
- Repeat for the remaining three splice plates.

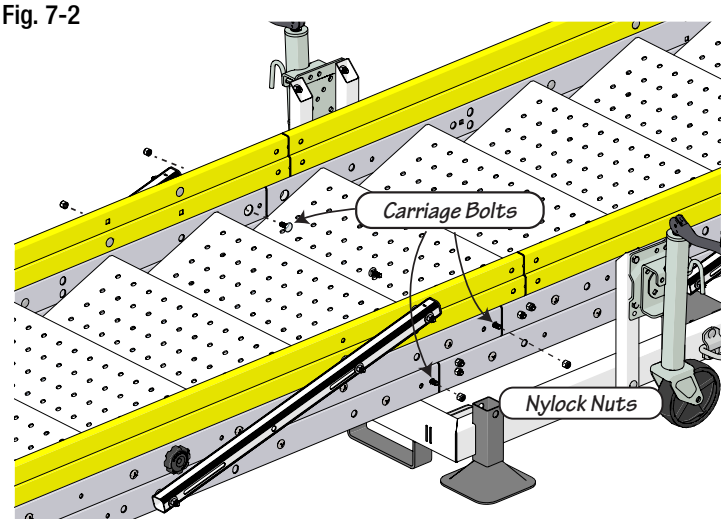



Fig. 7-3

# SUPER STEPS Module Assembly

**STEP 6 Attaching Modules**
If the set up requires a 3rd module repeat Steps 1 through 5 on pages 6-7.

Once the modules have been completely assembled and spliced together, the corner post can be set aside until the Super Steps is fully assembled.

Fig. 8-1

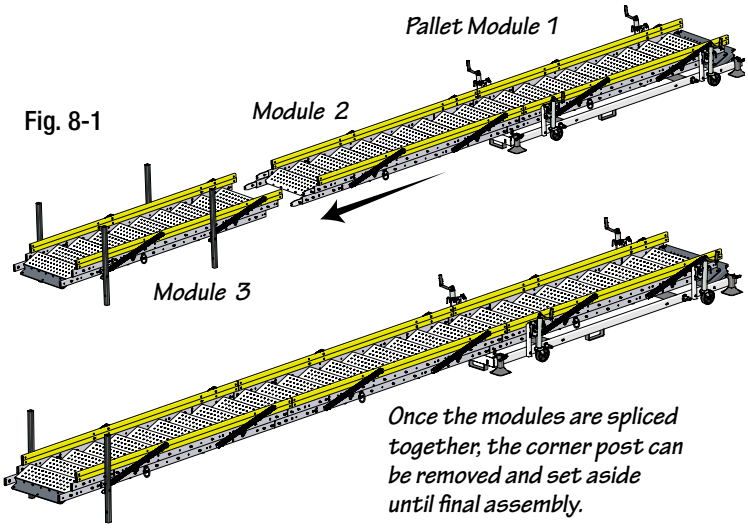



Fig. 8-1

# SUPER STEPS Hand Rail Assembly

**STEP 1**
**Note: In order to safely ship Super Steps the rail knobs are initially placed on the inside of the hand rails.**

- The hand knob is secured to a carriage bolt on the inside of the side rail. Remove the threaded knobs and the 3-1/2" carriage bolt.
- Insert a 3-1/2" carriage bolt from the inside of the Super Step upper rail frame.
- The bolt will pass the square mounting hole as shown in Fig. 9-1.
- From the outside, the mounting hole is indicated with a blue "Hand Rail Knob Here" label.
- Reattach the hand knob to the carriage bolt.
- Repeat for all remaining hand rail knobs.

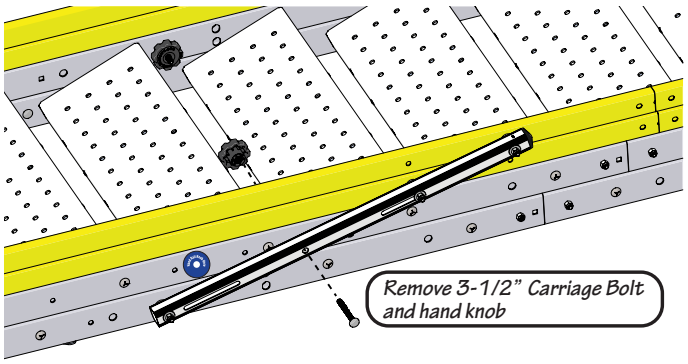



Fig. 8-2

**IMPORTANT!**
**The hand rails must be raised in order from module 3 then module 2 finally module 1**

**STEP 2**
- Working from the front (building structure) side.
- Starting with module 3 (or 2 if only using two modules) pull one side of the top hand rail upward.

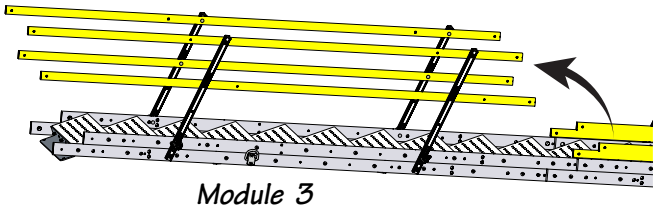



Fig. 8-3

# SUPER STEPS Hand Rail Assembly

**STEP 3**
- Insert a 3-1/2” carriage bolt from the inside of the Super Step upper rail frame.
- The bolt will pass the square mounting hole as shown in Fig. 9-1.
- From the outside, the mounting hole is indicated with a blue “Hand Rail Knob Here” label.
- Repeat for all remaining hand rail knobs.

**STEP 4**
- Move on to the middle module 2.
- Repeat Step 1 - 3 to raise and secure the hand rail

**STEP 5**
- Move on to the pallet module 1.
- Repeat Step 1 - 4 to raise and secure the hand rail

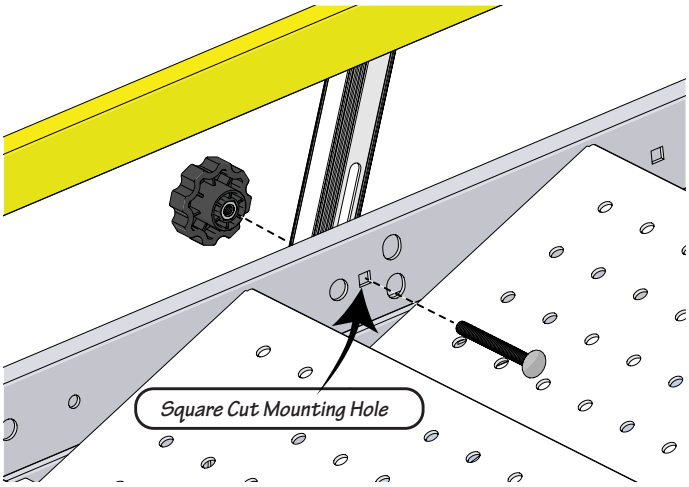



Fig. 9-1

**STEP 6**
- Locate 4 or 8 splice cuffs along with matching safety pins from the supplied hardware.
- Slide a splice cuff over the ends at the hand rail splice joint.
- The cuffs should align with the mounting holes located at the end of each hand rail as shown in Fig. 10-3.
- Insert two safety pins into each cuff passing through the rail to the other side of the cuff.
- Rotate the clip over the hand rail and pull it up and over the safety pin.
- Repeat for all hand rail spice cuff’s both top and bottom hand rails as shown right.

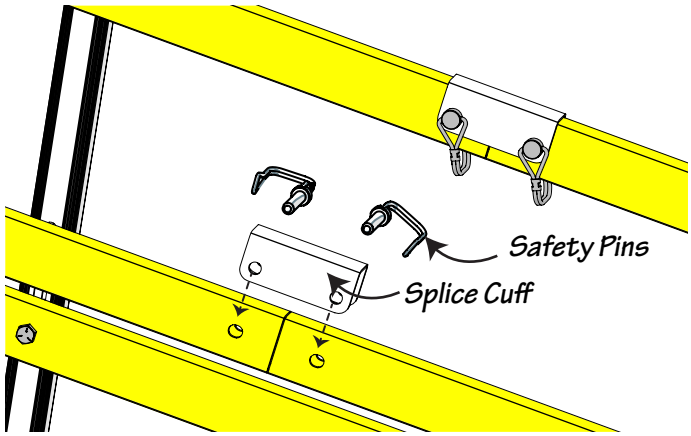



Fig. 9-2

**STEP 7**
- Temporarily remove the two hex bolts located on the step access end of the transport pallet. As shown in Fig 9-3.
- The hex bolts will be used latter when the Supper Steps are raised and bolted to the swing plate on the step module.

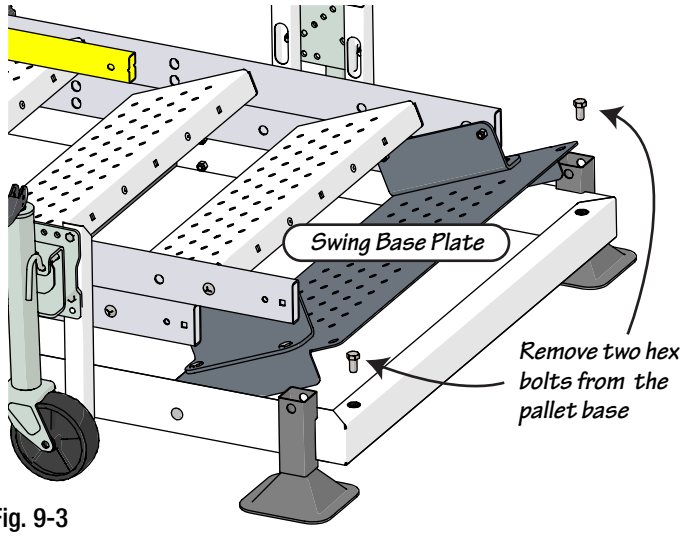



Fig. 9-3

# SUPER STEPS: Truss and Cable Tensioning

**NOTE:**
**At this point of the set up, the Super Steps assembly must be raised slightly (4-5 ft) for final assembly before final lifting/placement**

- Lift/hoist the top end of the Super Steps via crane or forklift.

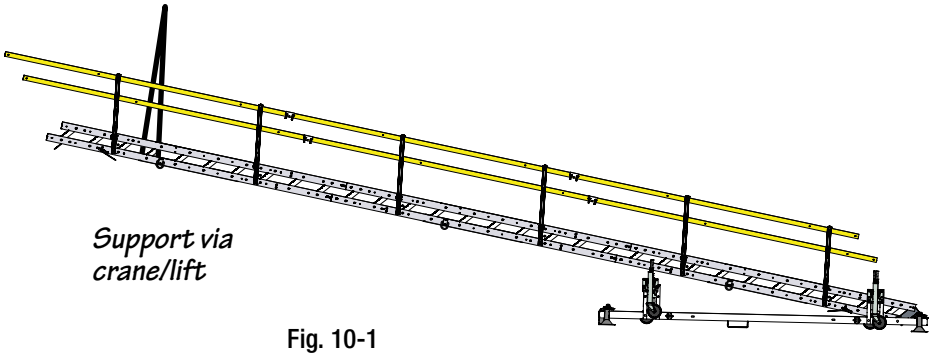



Fig. 10-1

**STEP 1**

- Depending on the number of modules, locate 2 or 4 truss assemblies.
- Working from the outside at a module joint, slide the truss upward resting against the lower side step rail. Center the truss assembly using the splice point as a guide.
- Align the mounting holes with the matching mounting hole located on the lower side rail.
- Insert a pull pin into one side of the truss secure with cotter pin.
- Insert opposite side pull pin and secure with cotter pin. As shown right.

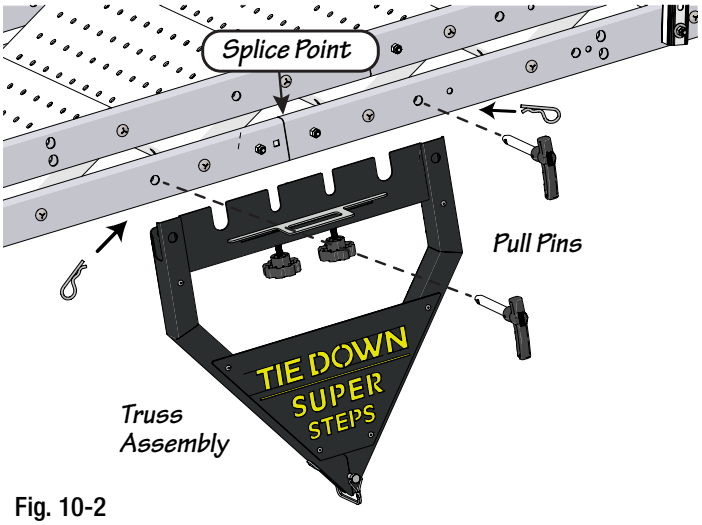



Fig. 10-2

**STEP 2**

- Tension/align the module side rails by rotating the hand knobs in the center of the truss.
- Align the side rails by increasing tension to one knob or the other knob.

**STEP 3**

- Repeat Steps 1-2 for each remaining splice/truss on both sides of the Super Steps.

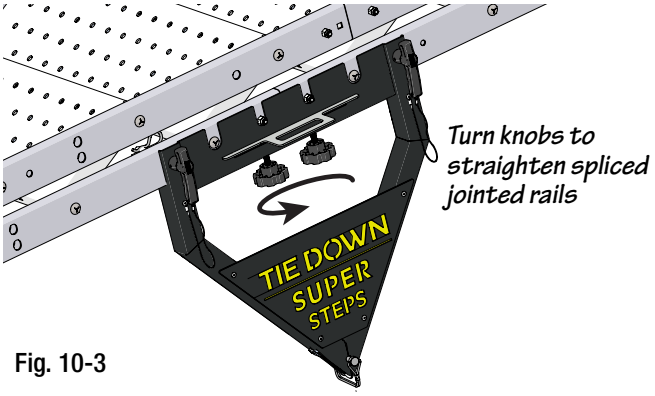



Fig. 10-3

# SUPER STEPS: Truss and Cable Tensioning

Depending on your height requirements your hardware kit includes (2) sets of cable assemblies one set for 2 modules and one for 3 module set ups.

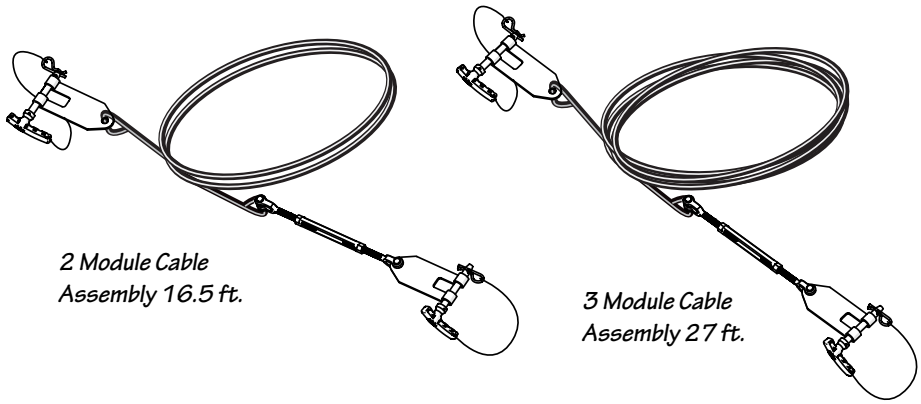



Fig. 11-1

**STEP 4**

- Grab hold of the loose end of the tension cable assembly.
- Slide the curved mounting bracket over the lower side step rail.
- Insert the pull pin through the bracket and rail.
- Secure the pin/bracket with the attached cotter pin on the inside step rail.

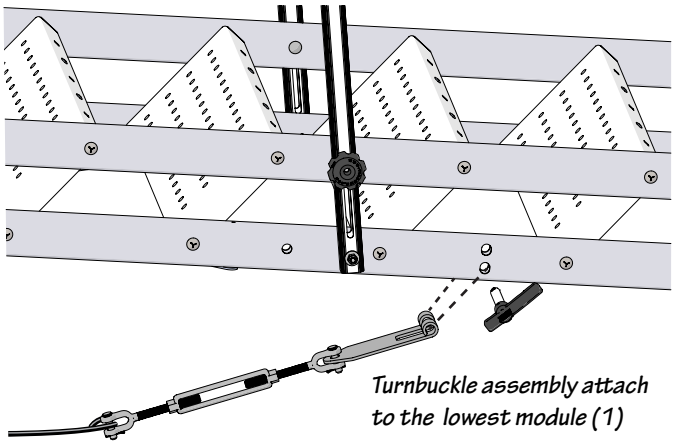



Fig. 11-2

**Step 5**

- Remove the safety clip at the bottom of the truss.
- While pulling the tension cable from one end, guide the tension cable between the end tabs at the bottom of the truss as shown in Fig. 11-2.
- Return the safety clip to the bottom of the truss securing the cable between the truss and safety pin as shown right.

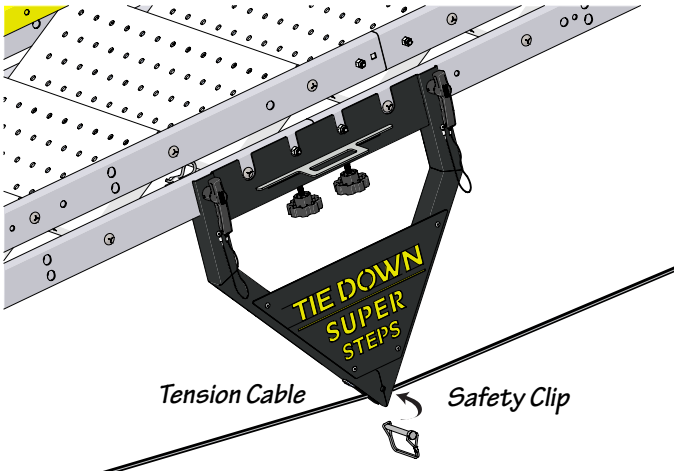
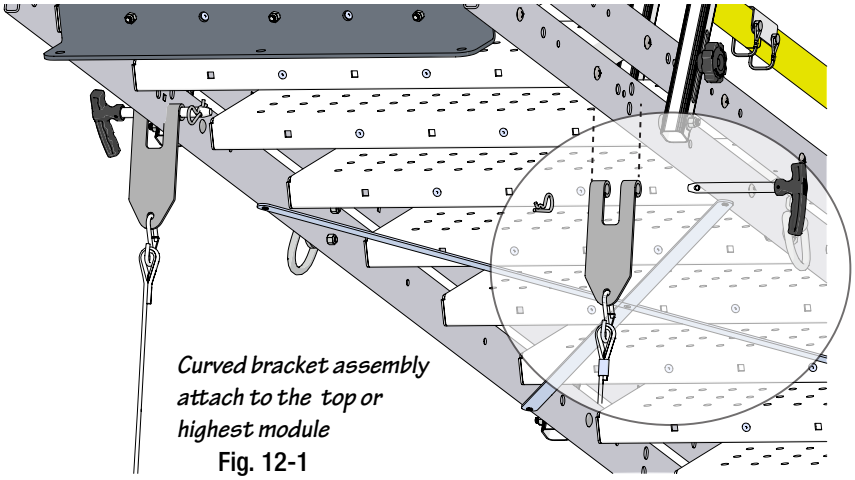



Fig. 11-3

# SUPER STEPS: Truss and Cable Tensioning

**STEP 6**

- Remove the pull pin from the curved mounting bracket of the cable assembly. Shown in Fig. 11-1.
- Slide the curved bracket over the side step rail, align with the mounting hole on the side rail. Marked with a location label.
- Slide the pull pin through both the curved bracket and side frame as shown right.
- Attach the cotter pin with the pull pin.



*Curved bracket assembly attach to the top or highest module*

Fig. 12-1

# SUPER STEPS Stabilizer Brace Assembly

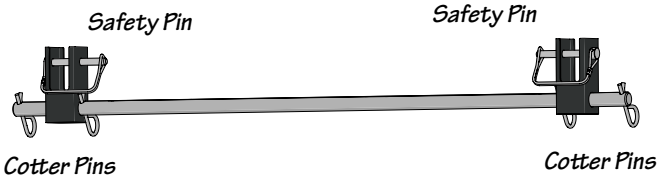



Fig. 12-2

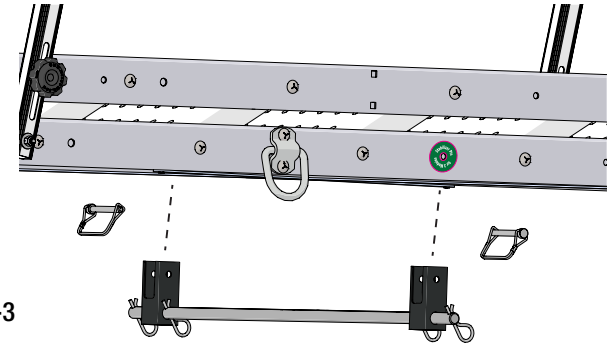


Fig. 12-3

**STEP 1**

- Locate the stabilizer support assembly from the stack pallet hardware kit. See Fig. 12-2.

**STEP 2**

- Remove the two safety pins located at the top of the mounting brackets.
- Position the stabilizer assembly below the mounting hole on the lower step frame indicated by the green “Stabilizer Pin” label as shown in Fig. 12-4

**Note: The stabilizer assembly must be placed in the mounting location determined by the number of modules used, either for 2 modules or 3 modules.**

- Align the mounting bracket slots with the label indicated by the number of modules used. See Fig 12-4 as shown right.
- Insert safety pins through both mounting brackets passing through the bracket and lower step rail.
- Secure the safety pins with the attached clip over the pin. As shown in Fig. 12-5.

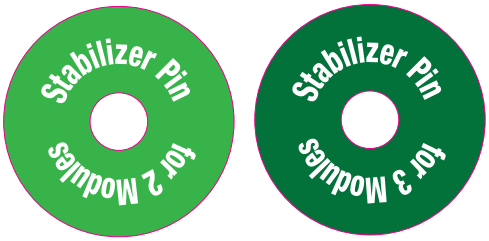



Fig. 12-4

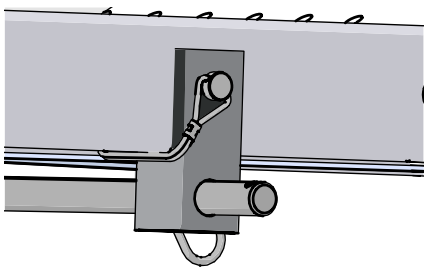


Fig. 12-5

# SUPER STEPS Stabilizer Brace Assembly

**STEP 4**

- Locate the two stabilizer post assemblies from the stack pallet hardware.

**NOTE: During the raising of the Super Steps It is recommended to remove the inner stabilizer tube from the post assembly.**

- Remove the safety clips from both stabilizer post assemblies.
- Slide out the top inner tube from both stabilizer post, see description as shown in Fig 13-1.

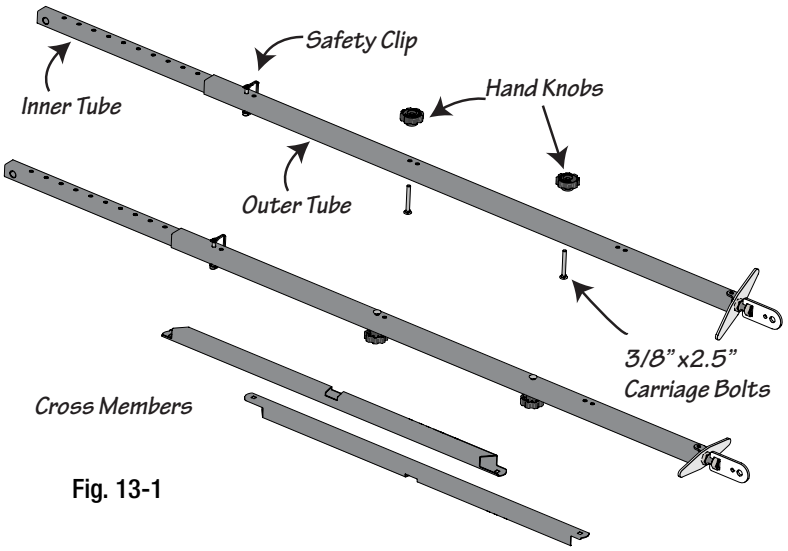



Fig. 13-1

**STEP 5**

- Remove the cotter pin from the end of the stabilizer rod.
- Slide the inner stabilizer post over the stabilizer rob as shown right in Fig. 13-2.
- Secure the inner tube with the cotter pin replaced in the stabilizer rod.
- Repeat for opposite side stabilizer post.

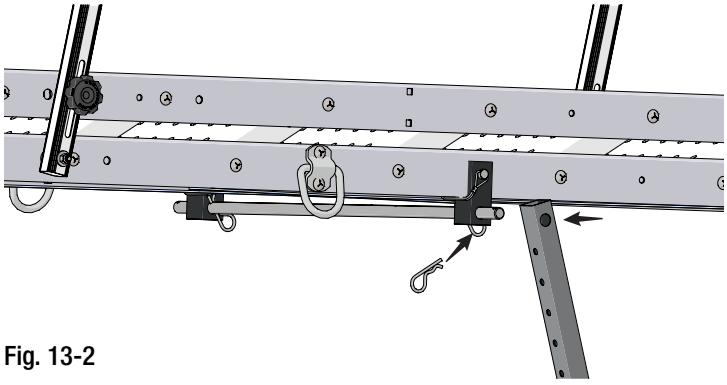


Fig. 13-2

# Raising the SUPER STEPS Assembly

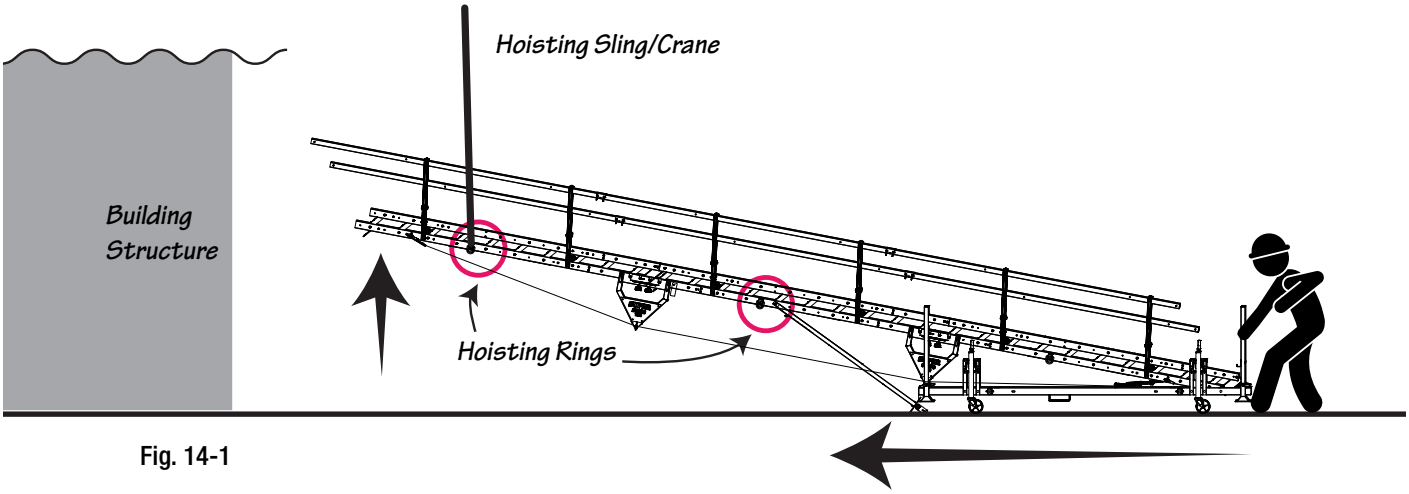



Fig. 14-1

**STEP 1 Raising Super Steps**

- Working from inside the hand rails, attach a hoisting sling to the hoisting rings on the outside of the lower step rail.
- Using a crane or forklift, raise the front end upward, while at the same time two workers push the Super Steps pallet forward toward the building structure.
- Once the top of the Super Steps comes in contact with the building structure, lower the crane/forklift.
- The top step of the Super Steps must rest flush with the flat top of the building structure.
- If the top step is too high, pull back the Super Steps base pallet until the top step rest flush to the work surface.

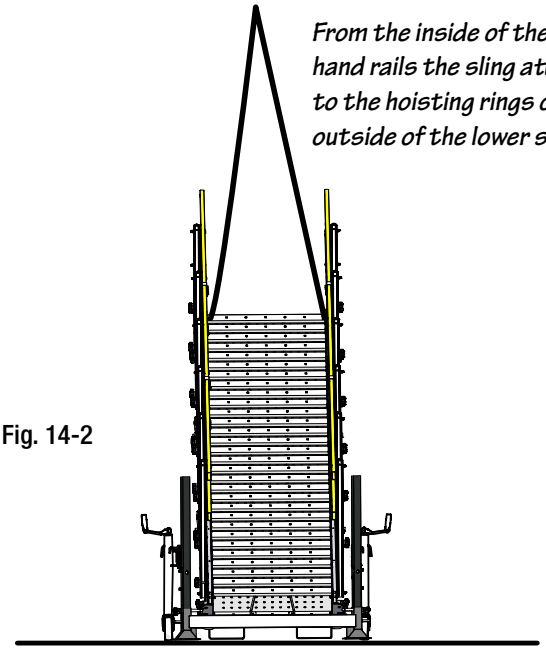



Fig. 14-2

**STEP 2 Reassemble the Stabilizer Post**

- Slide the lower (outer post) stabilizer post over the mounted inner tube (upper post).
- Slide the combined stabilizer post up or down aligning the bottom stabilizer post mounting bracket with the mounting bracket located on the transport pallet. See Fig 15-1,

**Warning**

- Do not extend the lower brace tube below the “DO NOT PASS THIS LINE” warning label. As shown in Fig. 14-3


Fig. 14-3

# Raising the SUPER STEPS Assembly

**STEP 3 Support Brace Installation**

- Remove the safety pin from the brace support tube (if needed).
- Slide the lower brace support tube up or down aligning the mounting tab/hole with the mounting tabs on the Super Steps frame. As shown in Fig. 15-1.

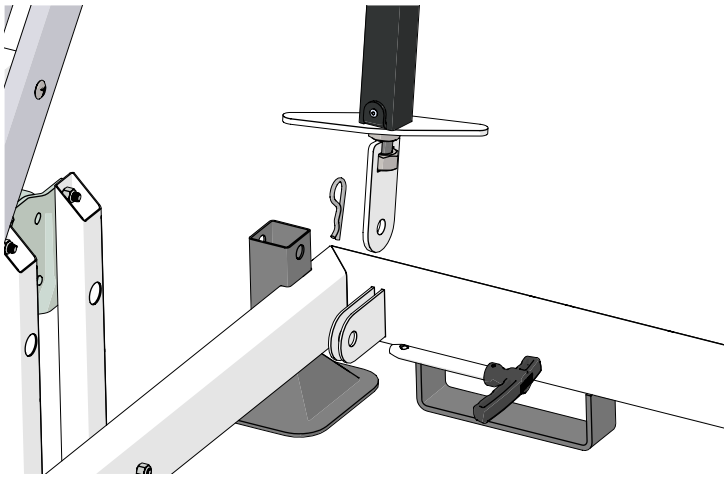


Fig. 15-1

**STEP 4**

- Insert the corner post pull pin though the pallet mounting tabs passing through the lower tension bracket.
- Secure the pin by attaching the cotter pin to extended pull pin end as shown in Fig. 15-2.

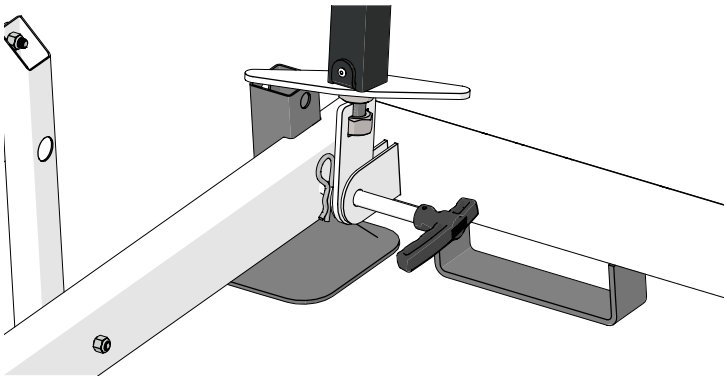
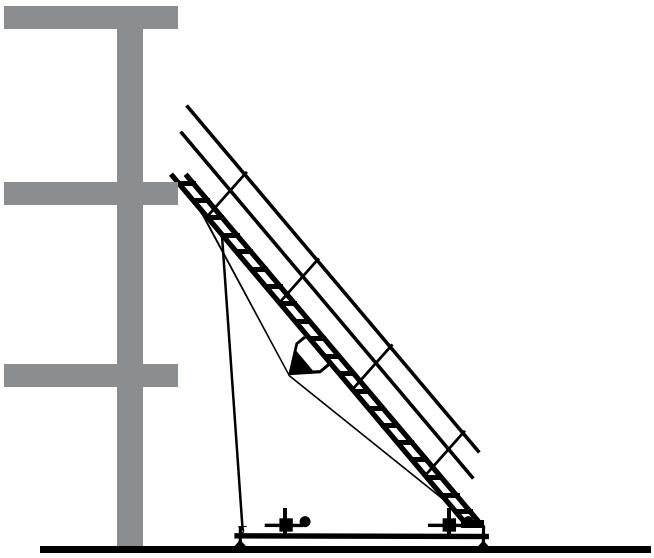


Fig. 15-2

**STEP 5 Securing the Super Steps**
**NOTE: DO NOT ACCESS THE UPPER WORK SURFACE VIA UNSECURED SUPER STEPS.**

- Access to the upper work area must be done by other tradition methods not by the Super Steps.
- Secure the top step to the work surface with 3 wedge style concrete anchors or other approved methods.
- Once the top step has been secured to the work surface, and the pallet base is in its final position, raise the wheels via the hand crank.
- Rotate the wheel crank assembly to its shipping position.



**⚠ WARNING ⚠**

**DO NOT ACCESS THE UPPER WORK SURFACE VIA UNSECURED SUPER STEPS.**

- Access to the upper work area must be done by other tradition methods not by the Super Steps.
- Secure the top step to the work surface with 3 wedge style concrete anchors or other approved methods.

# Raising the SUPER STEPS Assembly

**Concrete Embedment Bolts:**
Wedge type 1/2" dia. to be specified by project architect engineer and installed per bolt mfg. specifications.
Flat washers are required.

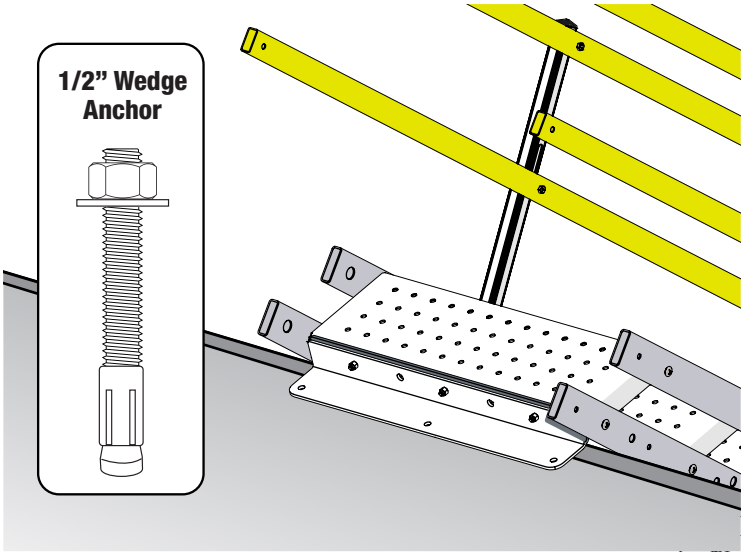



Fig. 16-1

**STEP 6**

- Locate two safety pins removed from the stabilizer tubes earlier.
- Insert the safety pin though a top mounting hole located at the top of the lower stabilizer post. The pin should pass through both upper and lower tubes. See Fig. 16-3.
- It may be necessary to adjust the brace up or down by turning the tension handle located at the bottom of the stabilizer post see Fig. 15-2.
- Repeat steps 2-4 for the opposite stabilizer post.

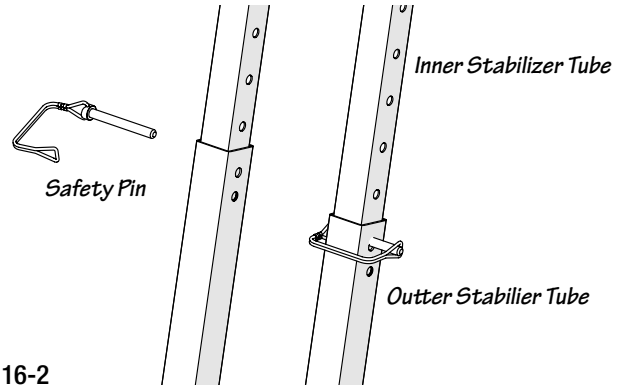



Fig. 16-2

**STEP 7**

- Located to two crossbar braces from the stack pallet hardware.
- Remove the hand knobs and carriage bolts from the crossbar braces.
- Position the top of the crossbar with the mounting holes located on the stabilizer post.
- Insert the carriage bolt through the crossbar/stabilizer post as shown right in Fig 16-3.
- Repeat for the opposite lower side of the crossbar.
- Working from the opposite side of the stabilizer post repeat the mounting process for the previous crossbar.

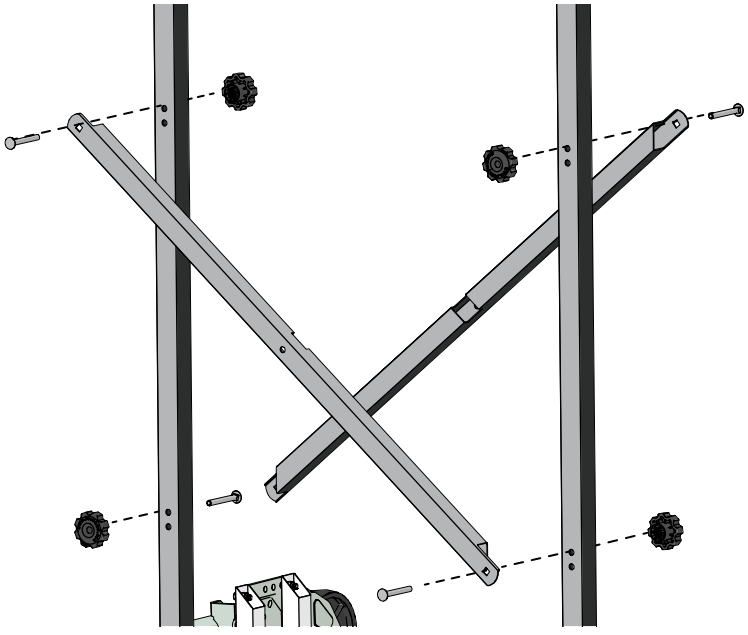


Fig. 16-3

# Raising the SUPER STEPS Assembly

**STEP 8**
- Loosely tighten the hand knobs.
- Insert the safety clip in the center of the interesting crossbars.

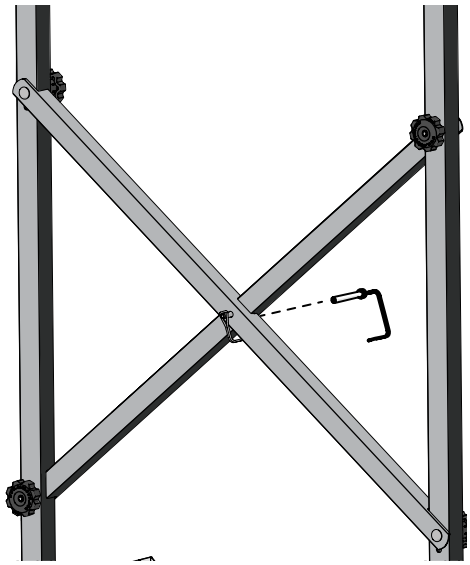


Fig. 17-3

# Final SUPER STEPS Assembly

**STEP 1**
- Adjust the module swing plate so that it lay's flat against the transport pallet and the holes align with the hole in the pallet.
- Replace the original two hex bolts passing through the swing plate and attaching to the transport pallet

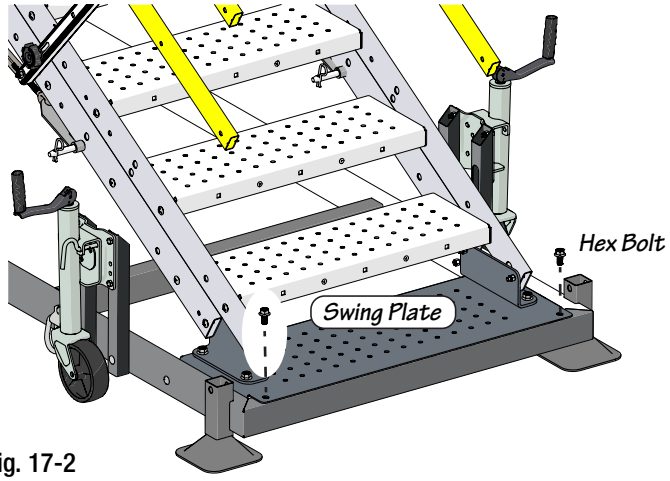



Fig. 17-2

**STEP 2**
- Tighten the turnbuckle by inserting a wrench or screw driver in the turnbuckles open slot.
- Tighten until firm without any slack in the cable.

**STEP 3**
- Hand tighten all hand rail hand knobs
- Tighten until firm

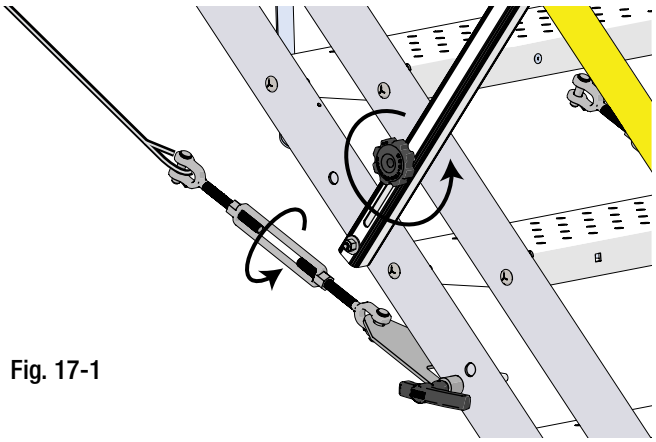


Fig. 17-1

# Final SUPER STEPS Assembly

**STEP 4**

- Tighten the hand bracket on the lower stabilizer post by turning the handle clockwise.
- Tighten until firm without any “Bow” in the support post.

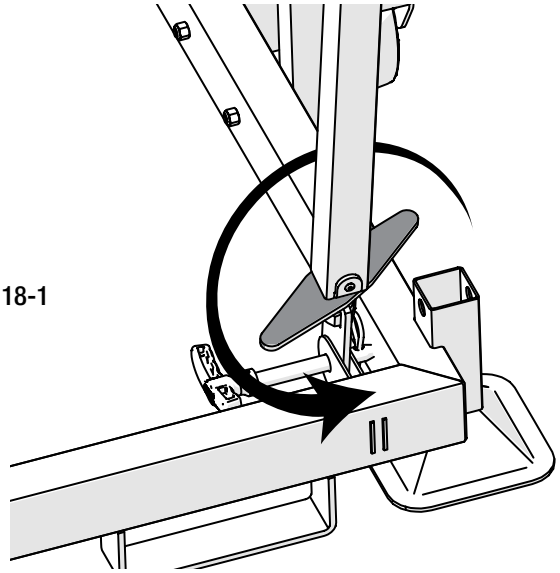


Fig. 18-1

**STEP 5**

- Tighten the all four hand knobs on both stabilizer post and crossbars.

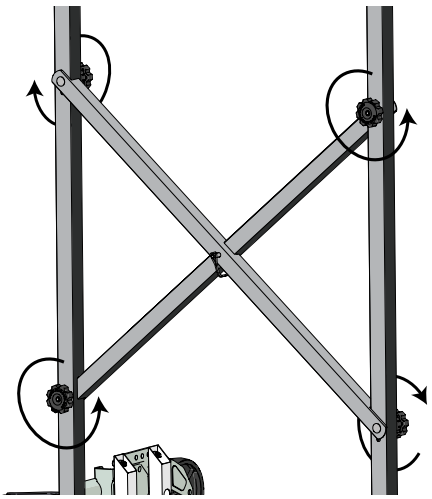


Fig. 18-2

# Alternative SUPER STEPS Set Up

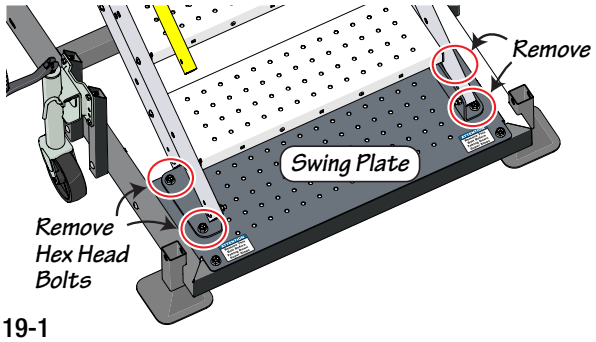



Fig. 19-1

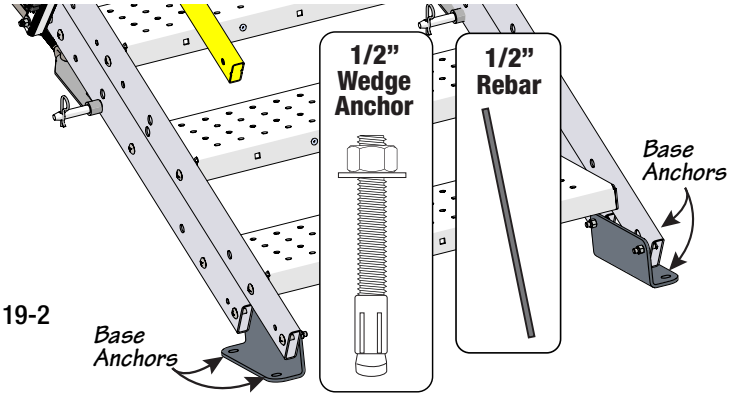



Fig. 19-2

Substituting the module base with anchors and adding feet to the support brace your Super Steps may be used for an alternative installations.

**Alternative Module Base Installation**

- Remove the lowest (module 1) from the transport pallet. Remove the 4 hex bolts from the swing plate/transport pallet as shown in Fig 19-1.
- Position the Super Steps into its final working location.
- For the base anchor mounting, fasten through the provided holes on both feet (2 on each side). Secure the base with options listed below:

**Concrete:** Drill two 1/2"x 2" deep holes in the concrete using the base as a guide. Secure the Super Steps with 1/2"x 2"wedge anchors. Place nut & washer on anchor, leave enough room for 1 to 2 threads showing on top of bolt. Using a hammer, tap the wedge bolts into hole through bracket, leaving nut & washer flush with base. Using a socket wrench, tighten wedge/anchor bolt, securing Super Steps to the concrete.

**Compacted Gravel:** Drive a minimum 12-inch rebar through each hole in the feet to secure them to the surface. If the base surface is dirt, loose gravel, sand, or any other loose surface, it is suggested to lay a solid base first. Some examples include plywood or a sturdy wood surface.

**Wood:** Fixing options (timber screws, nails, bolts, or concrete sleeve anchors) are recommended to be at a minimum of 1/4 inch diameter by 2 inches long.

**Fasten the Top Step:** Depending on the surface, use either timber screws, nails, bolts, or concrete sleeve anchors, through the provided holes onto the support. The top step fixing area should be a rigid surface, for example, a steel beam, concrete, or timber with minimum dimensions of 2 by 4 feet.

**Add Non Skid Support Feet**

- Locate from the hardware kit:
  - 2 base foot adapters
  - 2 - 2.75"" hex bolts and nylock nuts
  - 2 non skid feet
- Before assembling the support braces, install the non skid feet.
- Slide the base foot adapter over the support brace tab located at the end of the brace assembly.
- Align the non skid foot with the adapter and the smaller diameter hole located on the brace tap.
- Insert the 2.75" hex bolt through the foot base, adapter and brace tube tap.
- Secure the carriage bolt on the opposite side with a nylock nut. As shown right in Fig 19-4.
- Repeat for other side brace support.

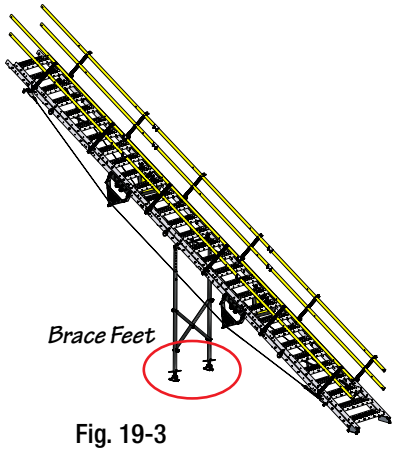



Fig. 19-3

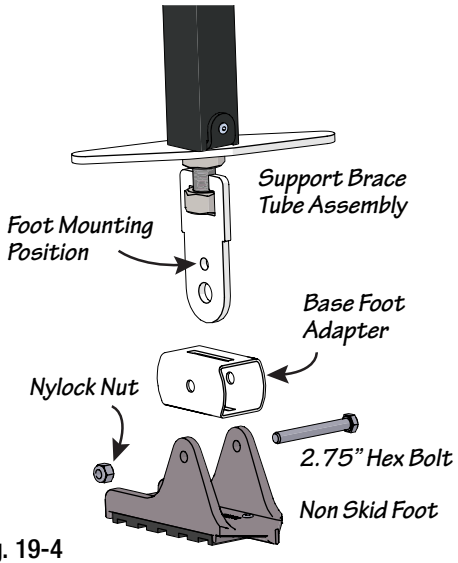



Fig. 19-4

# Lowering the SUPER STEPS

1. Attach a hoist sling/crane to the top module or position a forklift under the Super Steps.
2. Remove the two bolts on the swing plate attached to the transport pallet. As shown below in Fig. 20-1 & 2.
3. Remove the crossbars from the stabilizer post. As shown in Fig.16-3.
4. Loosen the hand tension bracket on the support brace. As shown in Fig. 18-1.
5. Loosen the turn buckle from the lower cable assemblies, remove the pull pins on both sides. As shown in Fig.11-2.
6. From the top work surface remove the top brace fasteners. As shown in Fig.16-1.
7. Remove the pull pins from the transport pallet. As shown in Fig.15-1.
8. Remove the safety pins from the support braces. As shown in Fig.16-2. Slide the lower support tube out from the whole brace support post.
9. Lower the wheel assemblies and raise the transport pallet.
10. Pull the Super Steps/transport pallet outward 5-6 feet from the building structure. As shown in Fig.14-1.
11. Lower the top end of the Super Steps 4-5 feet from the ground surface.
12. Remove the Stabilizer Brace Assembly. As shown in Fig.12-3.
13. Remove the two cable assemblies from the upper Super Steps module. As shown in Fig.11-2 & Fig.12-1.
14. Remove all the Truss plates. As shown in Fig.10-2.
15. Completely lower the Super Steps to ground level.
16. Remove all the splice cuffs from the hand rails. As shown in Fig.9-2.
17. Remove hand knobs and bolts from the hand rails
18. Bring the mid rail to the top of the slot then lower the hand rails.
19. Replace the hand knobs and bolts to their original shipping position and tighten firmly.
20. Remove one side of bolts and nuts from the splice plate, leaving splice plates in place. As shown in Fig. 7-3.
21. Pull out each module separating into individual modules
22. Return/stack each module to the transport module.
23. Replace each of the four corner post to there original position on the transport pallet. As shown in Fig. 6-2
24. Return all loose hardware/cable assemblies to the storage boxes.
25. Stack brace tubes, cross braces and hardware kits back on top of the module stacks.

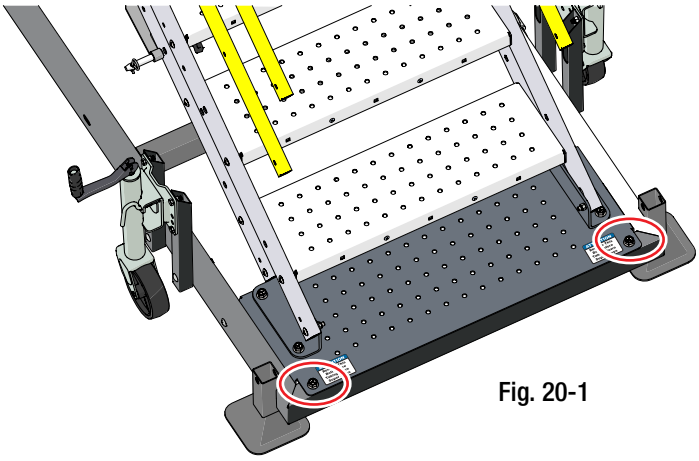


Fig. 20-1

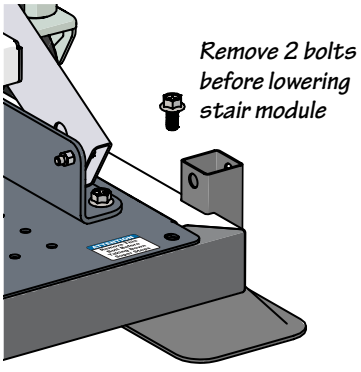



Fig. 20-2

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