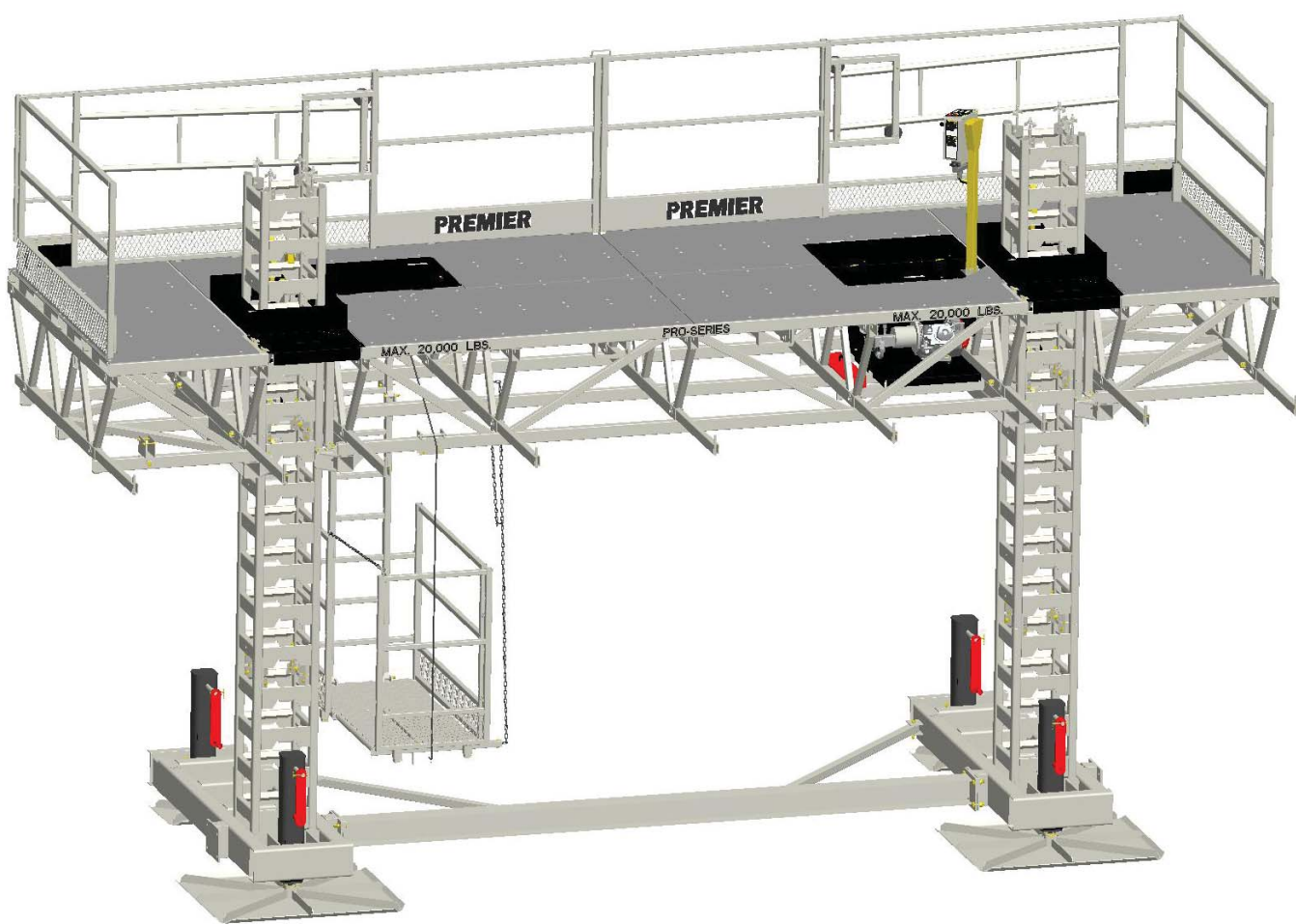


Pro Series

OPERATOR'S MANUAL



PREMIER
Scaffold Solutions



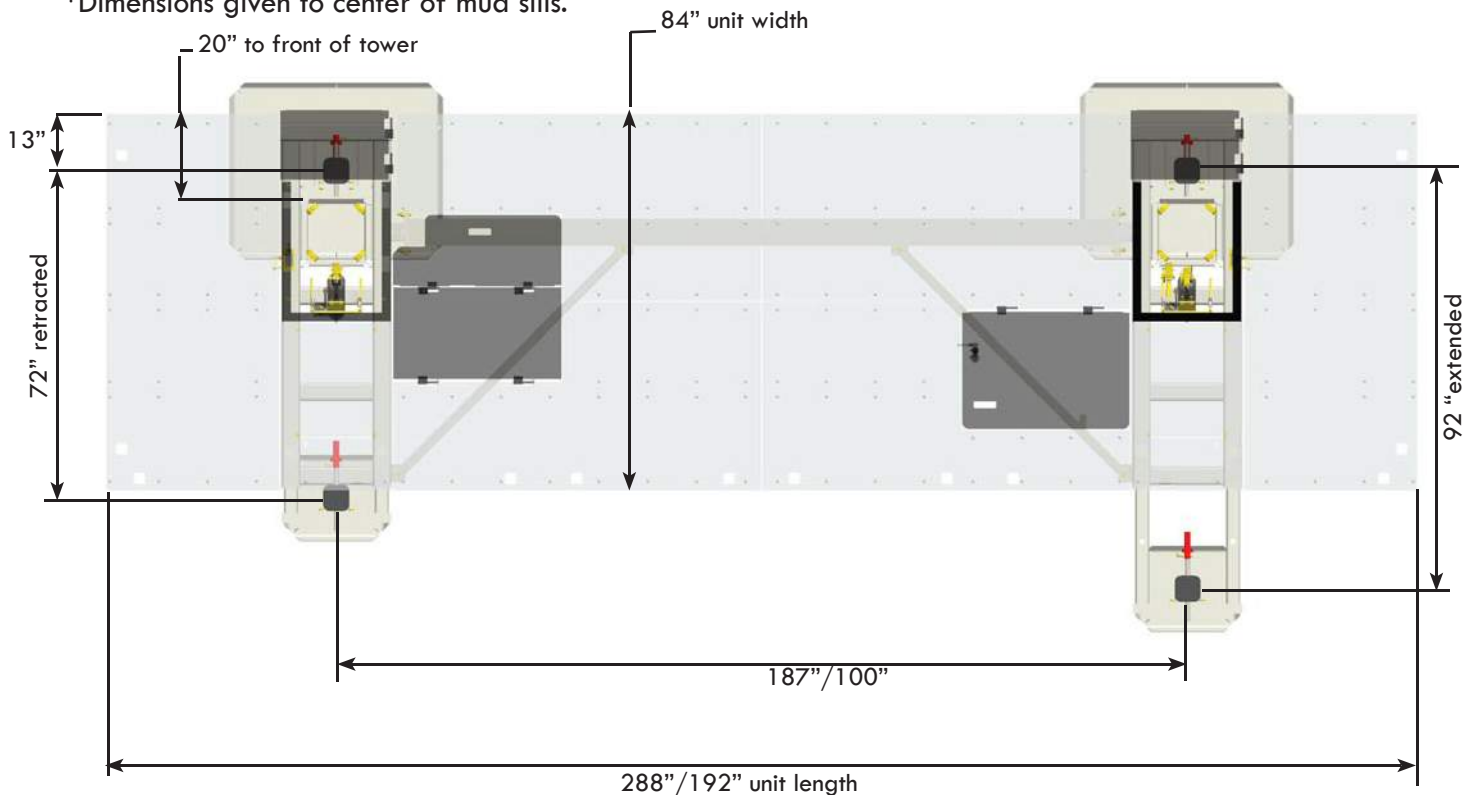
Quick Reference

Technical Specifications	
ProSeries Power Unit	7' wide x 24'/16' long
Transport dimensions	102" x 288"/192" x 55" including tower shroud
Max operating load	20,000 lbs.
Maximum height	Up to 250' without PREMIER's authorization
Free standing	35' with rear jacks extended
Travel speed	5' per minute
Engine type	Honda 13.0 HP gasoline engine with electric starter, remote choke, locking throttle and ignition mounted on the operator station
Climbable tower	16" x 16" x 60"

Description	Weight in lbs
ProSeries Unit 24'/16'	7,500/6,200
4' Bridge with accessories	675
6' Bridge with accessories	965
8' Bridge with accessories	1100
4' Guard Rail	50
5' Guard Rail	60
6' Guard Rail	70
7' Guard Rail	75
Rolling Guard Rail	150
Hanging Guard Rail	65
Mason Guard Rail	35
6' Outrigger	20
8' Outrigger	25
Tower	240
Pro Bar	10

Basic Dimensions

*Dimensions given to center of mud sills.



Operator's Manual Revisions

Revisions of this manual are posted on our website: www.premierscaffoldsolutions.com

Congratulations!

You have made a solid investment in the ProSeries product and PREMIER Scaffold Solutions (PREMIER). The ProSeries will ensure safety on the jobsite and increase your overall performance. PREMIER looks forward to offering you the best customer support in the scaffold industry.

As advocates of a safe and prosperous work environment, PREMIER advises that you read and understand the information presented in this owners manual for the ProSeries Power Unit. Additionally, the law requires that you be familiar and abide by ANSI/SIA A92.9-2011 standards for mast-climbing work platforms.

PREMIER encourages you to share this information with all personnel involved with the use and operation of your ProSeries Power Unit(s). Failure to share this information could result in serious personal injury and/or equipment damage.

All federal and state safety and health standards must be followed, including OSHA 29 CFR 1926 subpart L (1926.450 to 1926.454) for scaffolds.

PREMIER cannot be held responsible for users failing to comply with any and/or all federal, state, and local regulations. PREMIER reserves the right to make changes to the equipment or manual without notice. Further questions may be directed to PREMIER.

Acknowledgements:

This manual was produced by PREMIER Scaffold Solutions in 2015.

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Created by:

PREMIER Scaffold Solutions Technical Staff

**GENERAL
INFORMATION**

Model

Description

ProSeries Power Unit

Serial number

Purchase date

Warranty expiration date

WARRANTY & LIMITATIONS

PREMIER warrants new products to be free from defects in material and workmanship for a period of one (1) year, following the date of delivery to the first purchaser. PREMIER's obligation and liability under this warranty is expressly limited to repairing and/or replacing, at PREMIER's discretion, remanufactured or new parts which appear to PREMIER, upon inspection, to have been defective in material or workmanship. Such parts shall be provided at no cost to the user, F.O.B. PREMIER's facilities or other source at PREMIER's option.

PREMIER shall assume the cost to install any repaired or replacement part provided under this warranty to the extent established by the applicable service policy in effect at the time of delivery. The cost of any such work will only be paid by PREMIER if a written authorization has been granted prior to commencement of work.

This warranty does not apply to component parts or accessories of the products not manufactured by PREMIER, and as such, carries the warranty of the manufacturer thereof, or to normal maintenance (such as engine tune up) or to normal maintenance parts. PREMIER makes no other warranty, expressed or implied, and makes no warranty of merchantability or fitness for any particular purpose.

PREMIER's obligation under this warranty shall not include duty, taxes or any other charges whatsoever, or any liability for direct, indirect, incidental or consequential damage or delay. Products or parts for which a warranty claim is made must be returned prepaid by sender to the designated location. Any improper use, including operation after discovery of defective or worn parts, shall void this warranty. Improper use also includes operation beyond rated operating loads, substitution of parts not approved by PREMIER, including anchors, or any alteration, modification or repair by others, and shall automatically void this warranty.

The above warranty may not be altered without the written authorization of PREMIER.

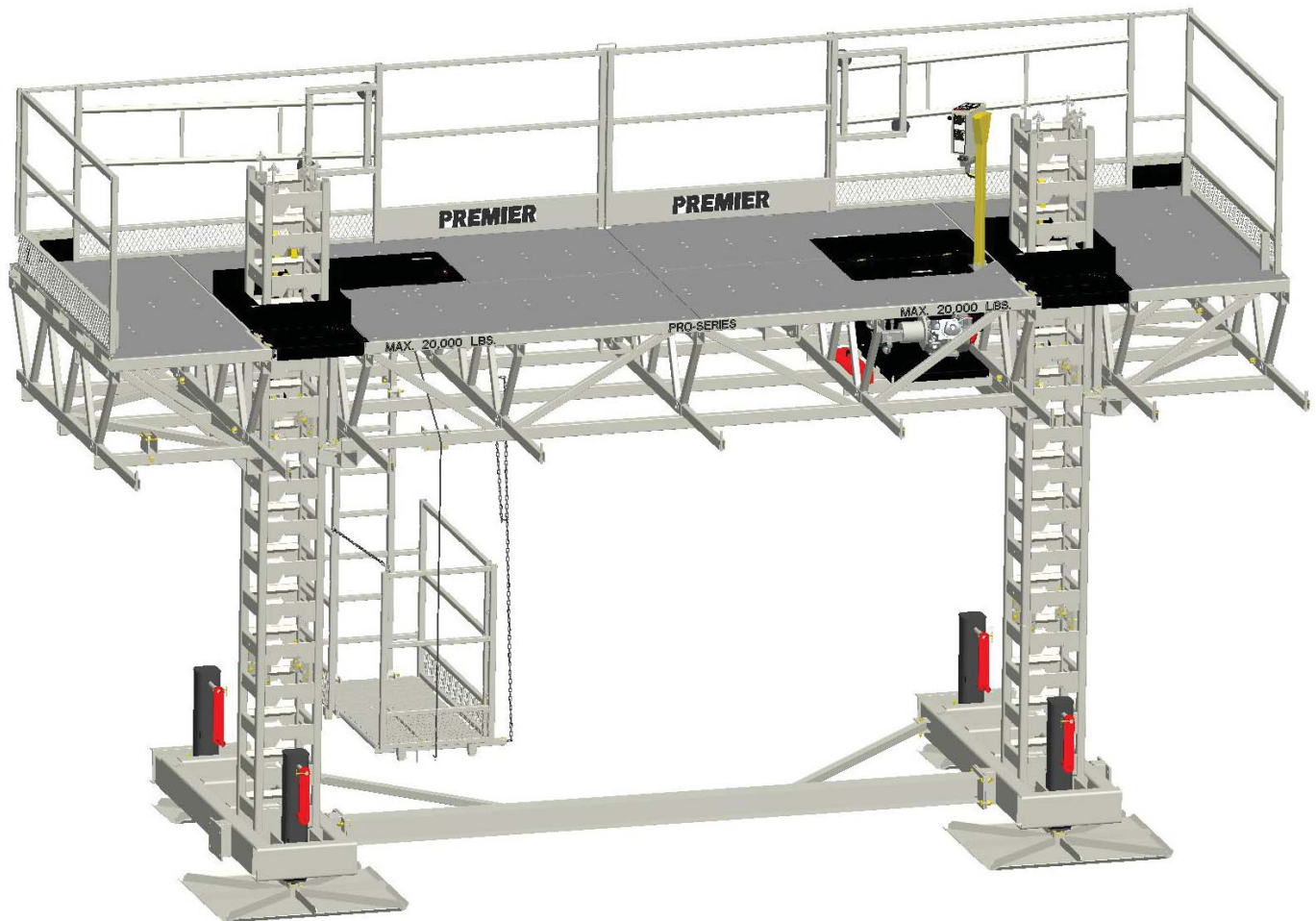
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CHAPTER 1

INTRODUCTION

- Safety Instructions
- Identification Plate
- Overview
- Technical Specifications
- Troubleshooting
- Daily/Weekly Inspection Sheet
- Monthly/Yearly Inspection Sheet



SAFETY INSTRUCTIONS

Safety Comes First!

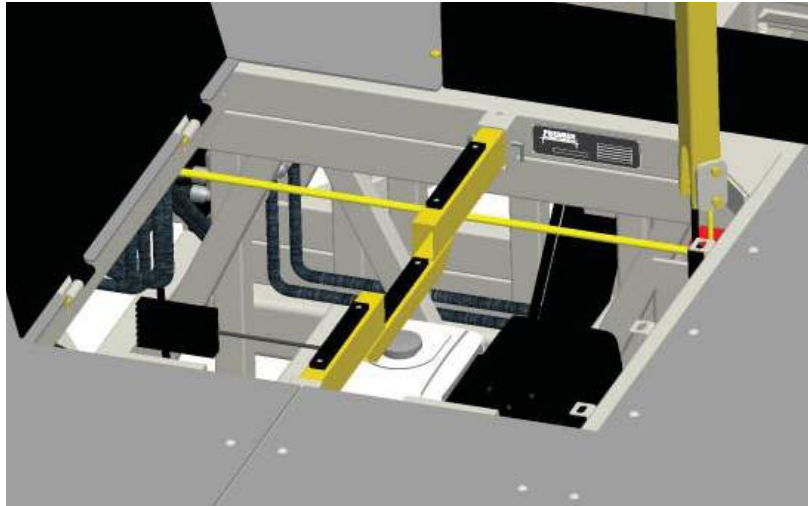
For your personal safety, always have a competent person and back-up competent person assemble, operate, disassemble and move the ProSeries Power Unit.

Performance and Safety Rules:

1. Prepare a plan showing how the ProSeries Power Unit(s), bridges, extensions and hoists will be positioned near structures or walls to be erected. On long walls, separate ProSeries Power Units to allow for flexibility. Position ProSeries Power Units to provide proper anchoring points for towers.
2. Establish distance between the ProSeries Power Unit and the structure or wall, taking into account the length of the plank outriggers (6' or 8'), as well as curvatures, balconies, columns, trees, telephone wires, electrical lines or anything else that could be in the way.
3. Refer to regulations governing distances between the ProSeries Power Units and all utilities (under or above ground and existing or planned). For clarification and directions, contact job site management.
4. For your personal safety, make sure the ground or support surface capacity meets with the static load charts herein. Soil compacting, cribbing or shoring can increase bearing capacity. Contact a licensed engineer for assistance.
5. On difficult jobs, never modify the ProSeries Power Unit or substitute factory parts. This could adversely affect safety, performance and void the warranty. In addition, this could lead to serious injury.
6. Rely on a licensed engineer to help on special jobs and to approve plans if required in your area.
7. Maintain correct equipment and parts inventory on the job site to work efficiently. Keep equipment in good condition and refer to the maintenance checklist.
8. After installation, mark the "off-limit" areas of the ProSeries Power Unit using fencing, barriers and warning tape, and note the emergency phone numbers (fire and police) for quick reference. Have an emergency evacuation plan ready to execute in case of need.
9. Never load the bridges or ProSeries Power Units beyond their rated load. Overloading may cause ProSeries Power Units to bind and bridges to fail, causing serious injury or death.
10. Contact your distributor or factory for service, repair or technical advice. Refer to equipment type and serial numbers when calling.
11. Use the appropriate fall protection equipment when climbing/descending the tower, modifying planking, or working with the hoist.
12. Always wear required safety equipment when working on the ProSeries Power Unit.

IDENTIFICATION PLATE

The identification plate is located above the engine, in the power pack area.



Identification Plate

PREMIER Scaffold Solutions	Carefully Read the operator's manual before operating this equipment. <input type="checkbox"/>	
	Lire soigneusement le manuel de l'opérateur avant d'utiliser cet équipement. Les atentaments el manual del operador antes de utilizar este equipo.	
RATED LOAD <input type="text"/>	MODEL <input type="text"/>	
	PN <input type="text"/>	
	SN <input type="text"/>	
	DATE <input type="text"/>	
	MADE IN <input type="text"/>	
<input type="checkbox"/> PREMIER 2320 W. ORANGE BLOSSOM TRAIL APOPKA, FL 32712 PH#800-827-6846 <input type="checkbox"/>		

Model: _____

PN: _____

SN: _____

Date: _____

Made In: _____

Rated Load: _____

Sold To: _____

Sold Date: _____

OVERVIEW

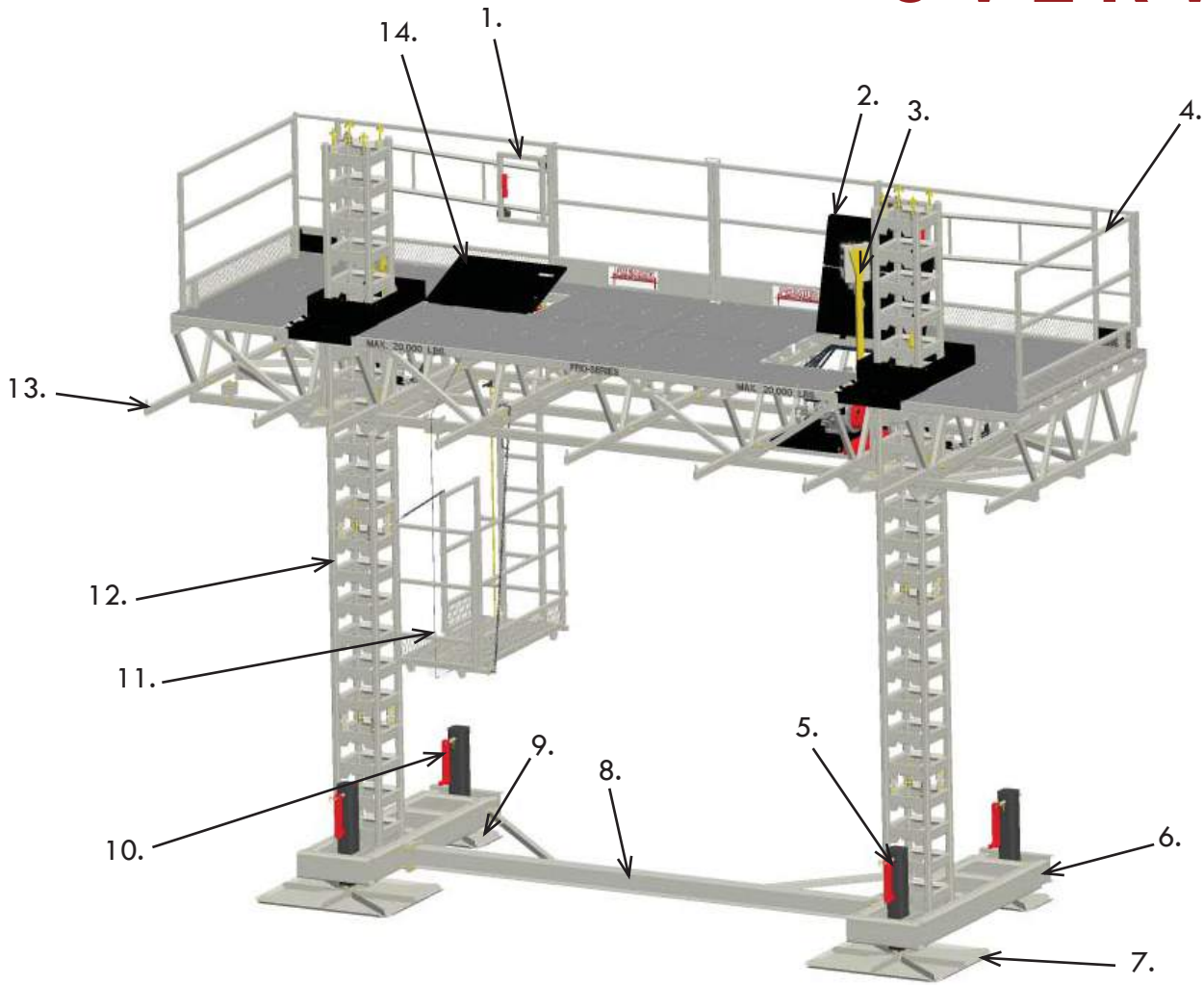


Diagram No.	Part No.	Qty.	Description
1	72406140	2	Rolling Guard Rail
2	72401409	1	Power Pack Access Door
3	72405001	1	Operator Station
4	72406720	2	7' Guard Rail
5	72402036	2	Front Jack
6	72402101	2	Independent Base
7	72402015	2	47" x 39" Mud Sills
8	72402108	2	Stablizer Beam
9	72402033	2	23" x 19" Mud Sills
10	72402040	2	Rear Jack
11	72403140	1	Walkway
12	72409017	2	16" x 16" x 5' Tower
13	72408003	9	8' Bottom Outrigger
14	72401414	1	Walkway Access Door

TECHNICAL SPECIFICATIONS

ProSeries Power Unit	
ProSeries Power Unit work area	7' wide x 24' long / 7' wide x 16' long
Transport dimensions	102" x 288"/192" x 55" including tower shroud
Rated operating load	20,000 lbs.
Maximum height	Up to 250' without PREMIER's authorization
Free standing	35' with rear jacks extended
ProSeries Power Unit weight	7,500 lbs. / 6,200 lbs.
Travel speed	5' per minute
Engine type	Honda 13.0 HP gasoline engine with electric starter, remote choke, locking throttle and ignition mounted on the operator station
Climbable tower	16" x 16" x 60"; 240 lbs. per tower

TROUBLESHOOTING

Problem	Potential Cause	Solution
The engine does not start	Oil is low	Refill or change oil
	Gas valve is in the "OFF" position	Open gas valve (located on the side of the carburetor under the air filter) and restart
	Dirty air filter	Replace air filter and restart
The engine stalls	Allow engine to reach operating temperature	Run 5-15 minutes in winter
	Choke may be stuck	Free or release choke
The ProSeries Power Unit does not rise	Locking bar is in place Note: Yellow light at the operator station should be "ON"	Remove locking bars
	Walkway has hit the ground Note: Yellow light at the operator station should be "ON"	Raise walkway
	Load is not evenly distributed	Distribute load evenly
	Rated load exceeded	Remove excess material and balance or distribute remaining load, then raise the ProSeries Power Unit.

MAINTENANCE

Daily Maintenance	Date	Operator
Check and maintain perimeter boundaries		
Check for stable ground condition where ProSeries Power Unit is positioned		
Level base (clean excess mortar from stablizer beam before leveling)		
Level towers (clean excess mortar from towers before leveling)		
Clean off excess mortar from ProSeries Power Unit and accessories		
Check and clear walkway		
Check guard rails and doors for proper installation/operation		
Check gasoline level		
Check engine oil level; refill as required (see Honda owner's manual)		
Remove mortar and broken masonry from critical components (nylon guides, cylinders, hooks and springs)		
Check safety hook spring (lubricate with PB blaster penetrent or WD40 equivalent)		
Check free movement of safety dog underneath ProSeries Power Unit (grease if needed)		
Check condition of cylinder hook, cylinder hook pin and lowering cam; repair or replace as required		
Ensure wall ties are safely secure		
Check that planking is properly placed, overlapped and secure; check mason guard rail		
Check and secure outriggers		
Check bearing bridge overlap and chains		
Weekly Maintenance	Date	Operator
Perform Daily Maintenance as well as the following requirements:		
Check for leaks and wear of hydraulic hoses, cylinders, valves and manifold connections		
Check hydraulic oil; (oil should be at the top of the dipstick) refill with ATF Dextron III		
Check nylon guides for wear replace if required		
Check structure for damage or distortion caused by overload conditions		
Check cylinders for leaks		
Check tower bolts for tightness		
Check tower bolt washers and replace if bent		
Check engine oil and air filters		

MAINTENANCE

Monthly Maintenance	Date	Operator
Perform Weekly Maintenance as well as the following requirements:		
Visually inspect structure for damage, bends, tears and cracks		
Structural repairs must be performed by an authorized distributor		
Clean up and grease safety dogs at pivots		
Clean outriggers; check for damage; replace as required		
Check outrigger bolts; plank stop pin; replace as required		
Check rolling guard rail; adjust or repair as required		
Check locking bars and limit switches; clean, adjust or repair as required		
Check walkway and limit switches		
Verify that all bridges have (8) Pro Bars, (16) Pro Bar Pins and (16) Pro Bar Clips		
Adjust lowering cams to move freely but not too loose		
Check all hook and safety dog connection bolts		
Check nylon slide wear; replace as necessary		
Check front jack bolts; torque 1/2" Grd 8 bolts to 115 ft. lbs.; replace as required		
Check rear jack bolts; torque 1/2" Grd 8 bolts to 115 ft. lbs.; replace as required		
Yearly Maintenance	Date	Operator
Perform Monthly Maintenance as well as the following requirements:		
Visually inspect structure for damage, bends, tears and cracks. Structural repairs must be performed by an authorized distributor.		
Contact PREMIER to evaluate structural damage		
Check decking bolts; tighten and/or replace as required		
Check and adjust hydraulic pressure to 2,800 PSI on relief valves		
Change hydraulic oil		
Change engine oil and filter as per Honda manual (minimum once per year)		
Check battery voltage (12 volts) recharge or replace if required		
Check safety dog wear groove to ensure it isn't flush. If flush, replace.		

CHAPTER 2

TRANSPORTATION

- General Information
- Transportation Options
- Wheel Kit



GENERAL INFORMATION

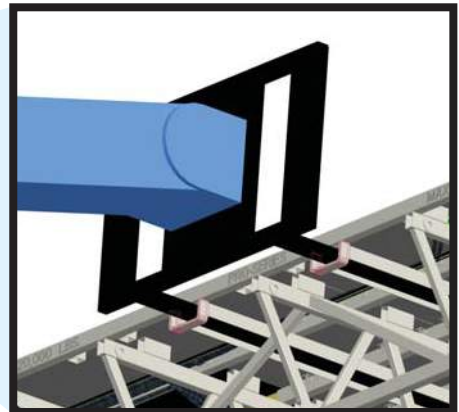
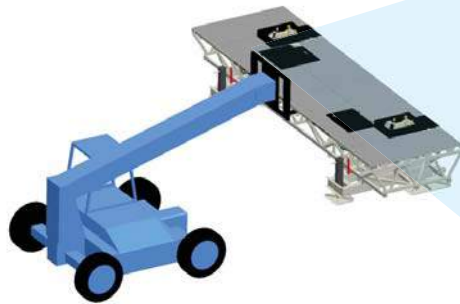
Before Moving the ProSeries Power Unit

1. Ensure the lock bar is securely in place.
2. All outriggers must be in the closed position and securely locked in place.
3. The gasoline valve on the Honda engine must be in the “OFF” position whenever the unit is transported or not in use.
4. Remove all guard rails and components which can interfere with chains or slings.

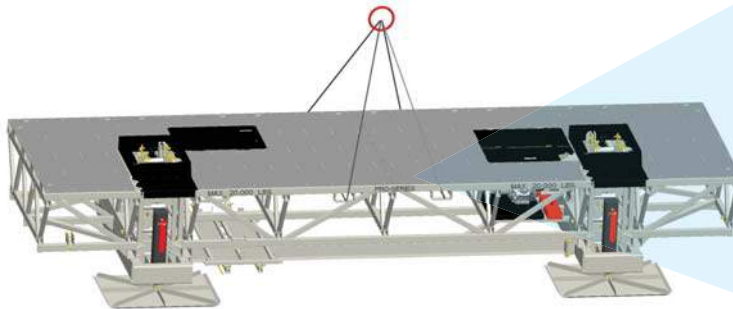
Handling/Loading Equipment

Pick points for safe handling of the equipment.

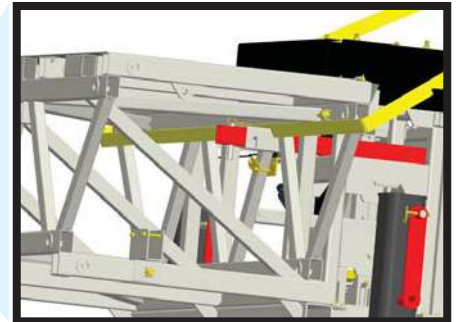
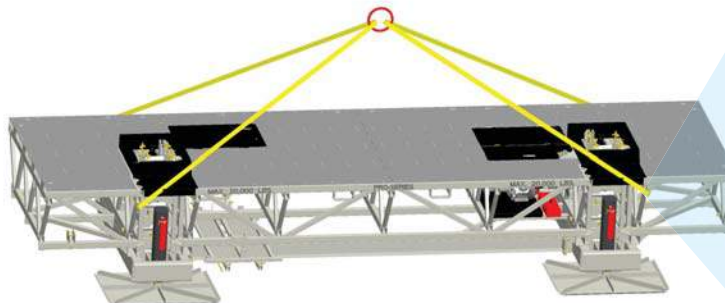
Fork Pockets



Chains



Sling



TRANSPORTATION OPTIONS

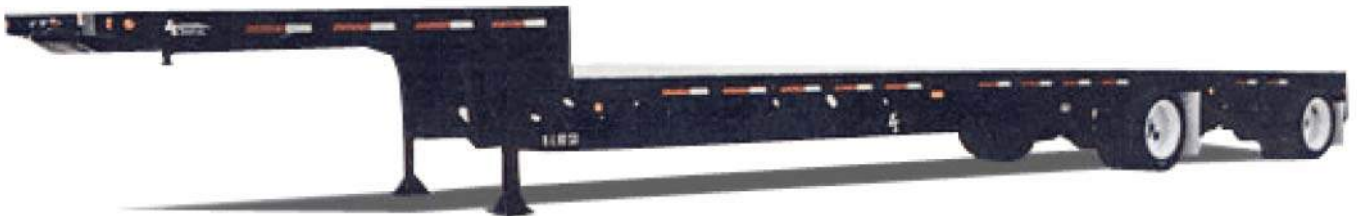
1. A semi with a flat bed trailer
2. A semi with a drop deck trailer
3. A pick-up with a standard trailer, or 5th wheel trailer

Never attempt to lift more than one unit at a time; never attempt to stack more than two units high.

Flat Bed



Drop Deck

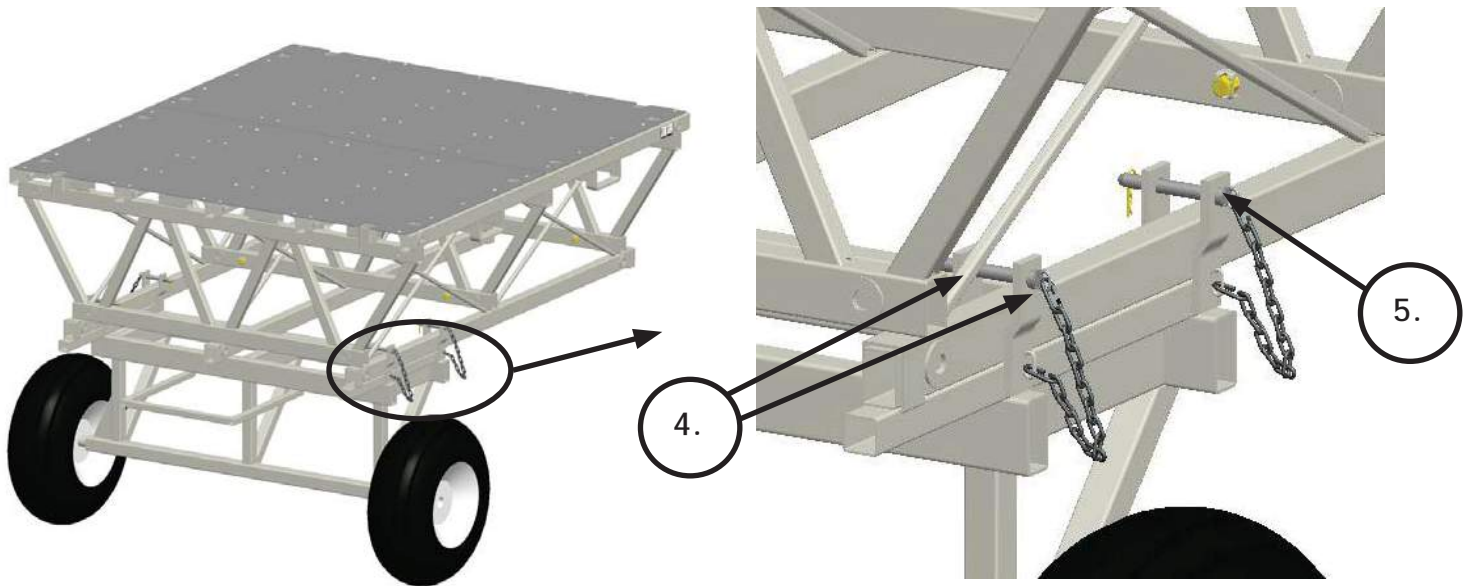


5th Wheel



WHEEL KIT

PREMIER offers a wheel kit for fast and efficient mobility within the job site. The wheel kit will attach to all ProSeries bridges and set ups thereof; use the wheel kit to position a single bridge, the ProSeries Power Unit, a 60' bearing bridge assembly, or a 64' set up.



Installation

1. Raise the end of the set up with a forklift, using chains or swings.
2. Place wheel kit underneath the lifted portion of the set up.
3. Lower the raised portion of the set up onto the wheel kit.
4. Ensure the tabs on the wheel kit are on each side of their longitudinal structural tubes.
5. Secure in place with all four clevis pins and hitch pins.



60' BEARING BRIDGE ASSEMBLY



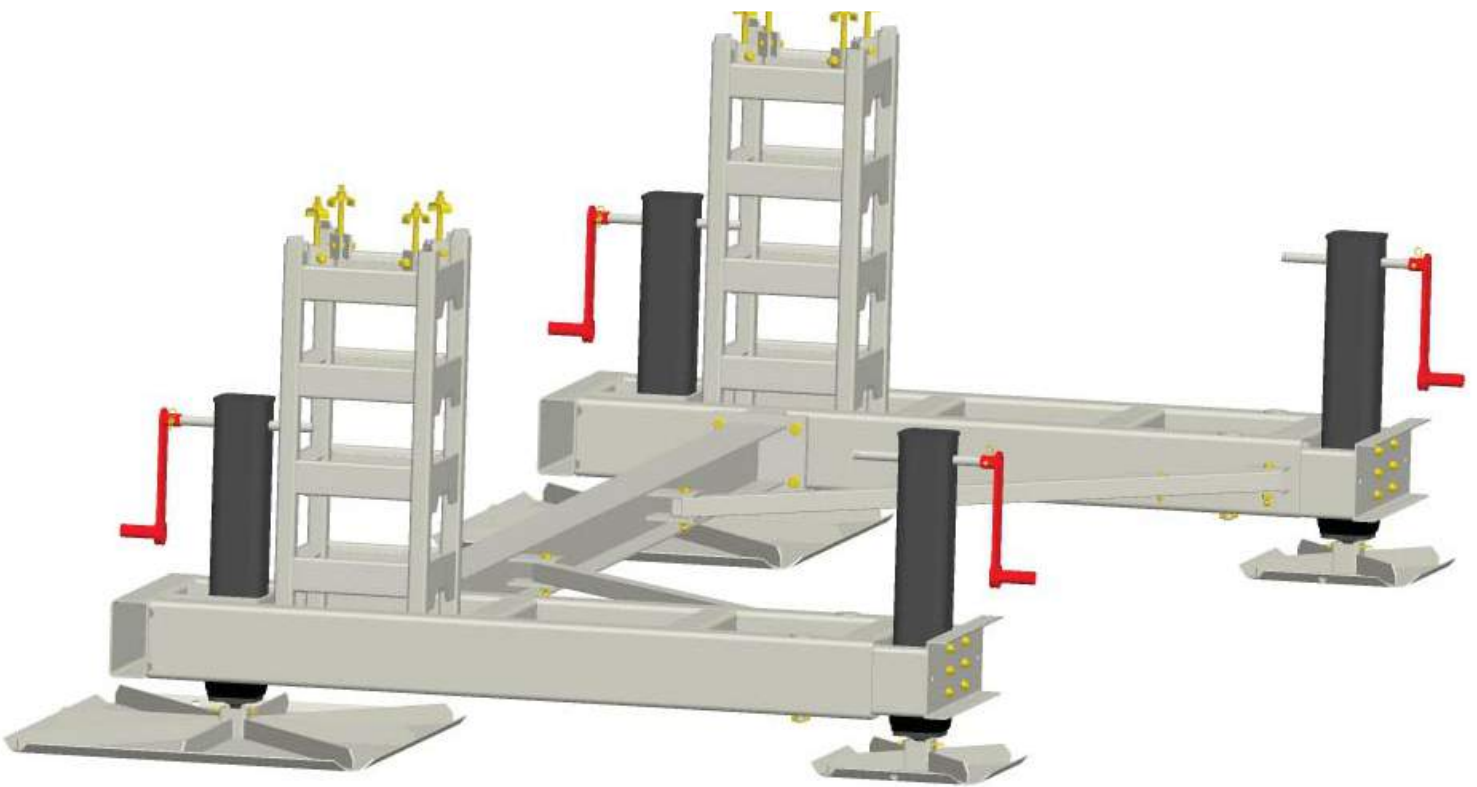
64' SET UP

****Insert tower lock bars before moving a ProSeries Power Unit.****

CHAPTER 3

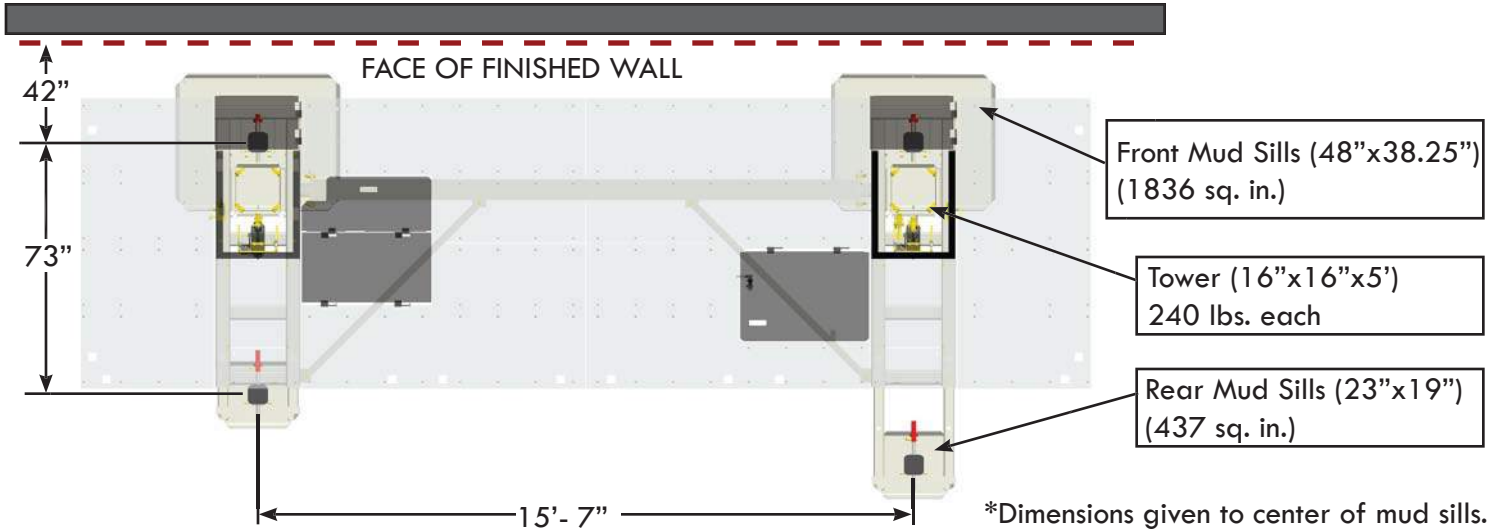
POSITIONING & LEVELING

- Static Load Chart
- Positioning/Leveling
- Splitting the Base



STATIC LOAD CHART

The illustration below shows how the ProSeries 24' Power Unit weight of 7,500 lbs. and operating load of 20,000 lbs. are transferred to the ground through the four load bearing mud sills. The total square inches of all four mud sills is 4,546 sq. in. (see figure below for individual mud sill sizes).



Mud Sill Load Distribution is as Follows:

All calculations use the ProSeries Power Unit weight of 7,500 lbs. and a load of 20,000 lbs. = 27,500 lbs. **Note: Unbalance conditions occur in the free standing set up (35').** Above 35' the towers are tied to a structure and the load is transferred through the towers to the front mud sills.

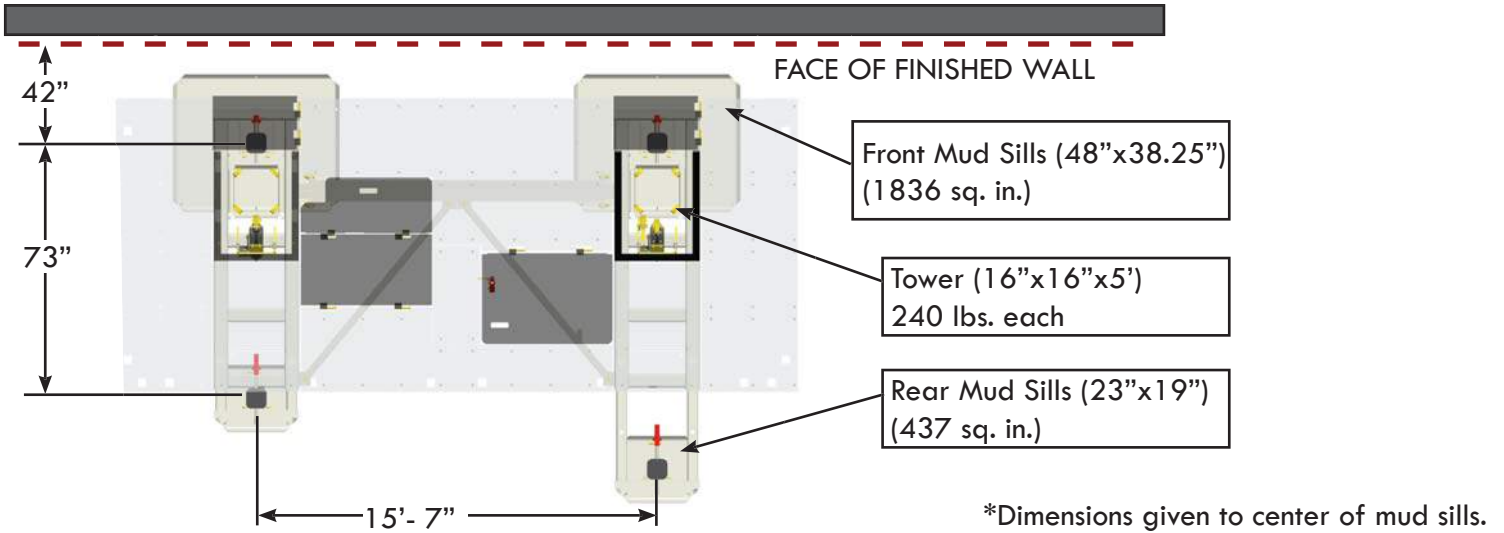
For example:

- Add .131 lbs./sq. in. to the mud sill, where a 5' tower is added.
- Front mud sills start at 6.35 lbs./sq. in. + .131 lbs./sq. in. = 6.481 lbs./sq. in.

Set Up Height (ft.)	Weight Front Mud Sills (lbs.)	Front Mud Sills (lbs./sq. in.)	Weight Rear Mud Sills	Rear Mud Sills (lbs./sq. in.)
35 (free standing)	10,396	5.66	6,234	14.26
35 (with ties)	15,190	8.27	n/a	n/a
70	16,870	9.19	n/a	n/a
100	18,310	9.97	n/a	n/a
140	20,230	11.02	n/a	n/a
175	21,910	11.93	n/a	n/a
210	23,590	12.85	n/a	n/a
250	25,510	13.89	n/a	n/a

STATIC LOAD CHART

The illustration below shows how the ProSeries 16' Power Unit weight of 6,200 lbs. and operating load of 20,000 lbs. are transferred to the ground through the four load bearing mud sills. The total square inches of all four mud sills is 4,546 sq. in. (see figure below for individual mud sill sizes).



Mud Sill Load Distribution is as Follows:

All calculations use the ProSeries Power Unit weight of 6,200 lbs. and a load of 20,000 lbs. = 26,200 lbs. **Note: Unbalance conditions occur in the free standing set up (35').** Above 35' the towers are tied to a structure and the load is transferred through the towers to the front mud sills.

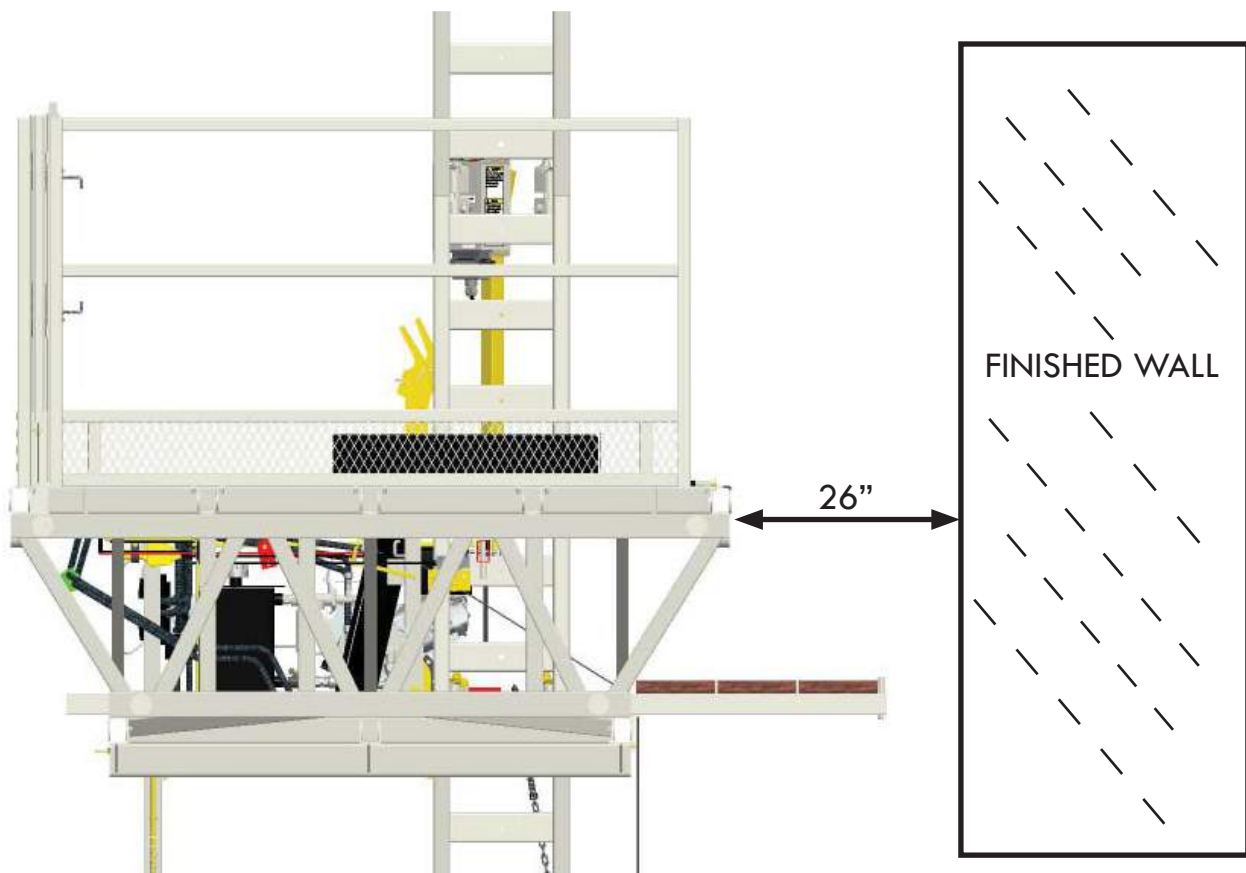
For example:

- Add .131 lbs./sq. in. to the mud sill, where a 5' tower is added.
- Front mud sills start at 6.35 lbs./sq. in. + .131 lbs./sq. in. = 6.481 lbs./sq. in.

Set Up Height (ft.)	Weight Front Mud Sills (lbs.)	Front Mud Sills (lbs./sq. in.)	Weight Rear Mud Sills	Rear Mud Sills (lbs./sq. in.)
35 (free standing)	9,973	5.43	6,007	13.75
35 (with ties)	14,540	7.92	n/a	n/a
70	16,220	8.83	n/a	n/a
100	17,660	9.62	n/a	n/a
140	19,580	10.66	n/a	n/a
175	21,260	11.58	n/a	n/a
210	22,940	12.49	n/a	n/a
250	24,860	13.54	n/a	n/a

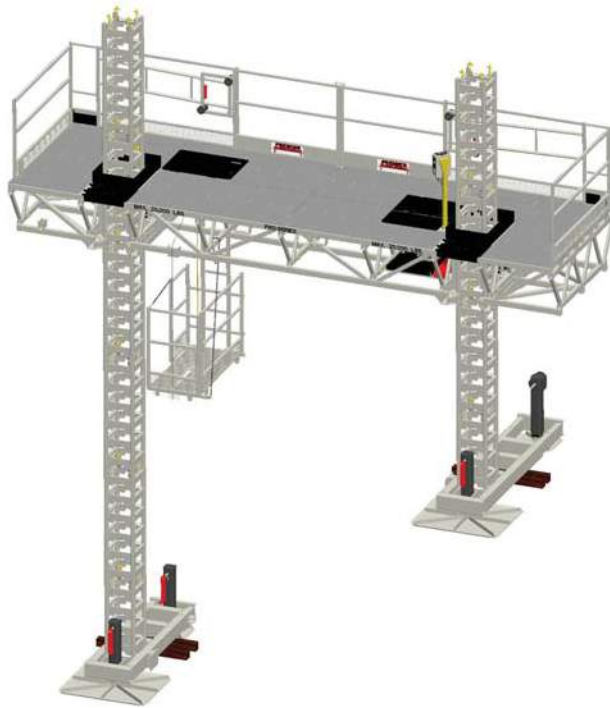
POSITIONING/LEVELING

1. Determine the location of the mud sills on the ProSeries Power Unit in relation to the wall.
2. Ensure the ground is firm and stable before positioning the ProSeries Power Unit. Refer to the static load chart on page 14 to assist with this.
3. Level and clean the area under the mud sills to an even compact surface. If the area isn't level or there are obstacles in the way, splitting the base may be your best option. Follow the steps on the following pages to safely split the base.
4. If your set up will be free standing (under 35'), pull the rear jack out as far as possible. If your set up will be tied to the wall (higher than 35'), keep the rear jack closed.
5. If your set up is higher than 250', you will need authorization and support from PREMIER.
6. Use a forklift, crane or optional wheel set to place the ProSeries Power Unit into position.
7. PREMIER recommends that you lower the front and rear jacks 4" before setting the ProSeries Power Unit into place.
8. Set the face of the ProSeries Power Unit in place, parallel 26" from the finished wall. This allows for a three plank set up. Two plank forward of the face of the unit. See graphic below.
9. Level the ProSeries Power Unit base using the adjustable jacks. Use a level on the front of the tower to check for plumb.



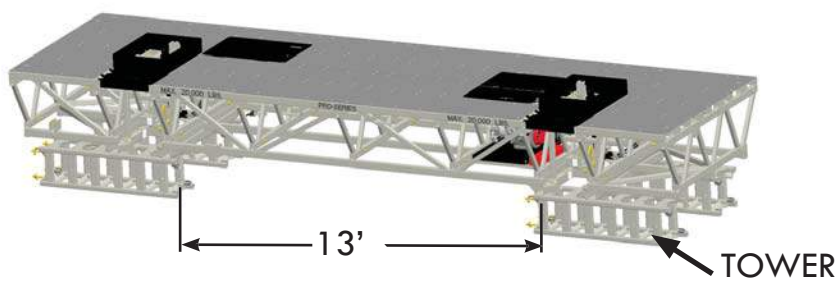
Face of the unit is 26" from the face of the finished wall.

SPLITTING THE BASE



Prepare ProSeries Power Unit for Separation

1. Lower the ProSeries Power Unit so the deck rests on the base.
2. Remove the following:
 - A. Locking bars
 - B. Cylinder and safety hooks (secure the cylinders away from the tower)
 - C. All guard rails
3. Place towers on the ground to support the ProSeries Power Unit deck 13' apart. Lift the ProSeries Power Unit deck off its base and place it on the towers. This will keep the walkway off of the ground and prevent



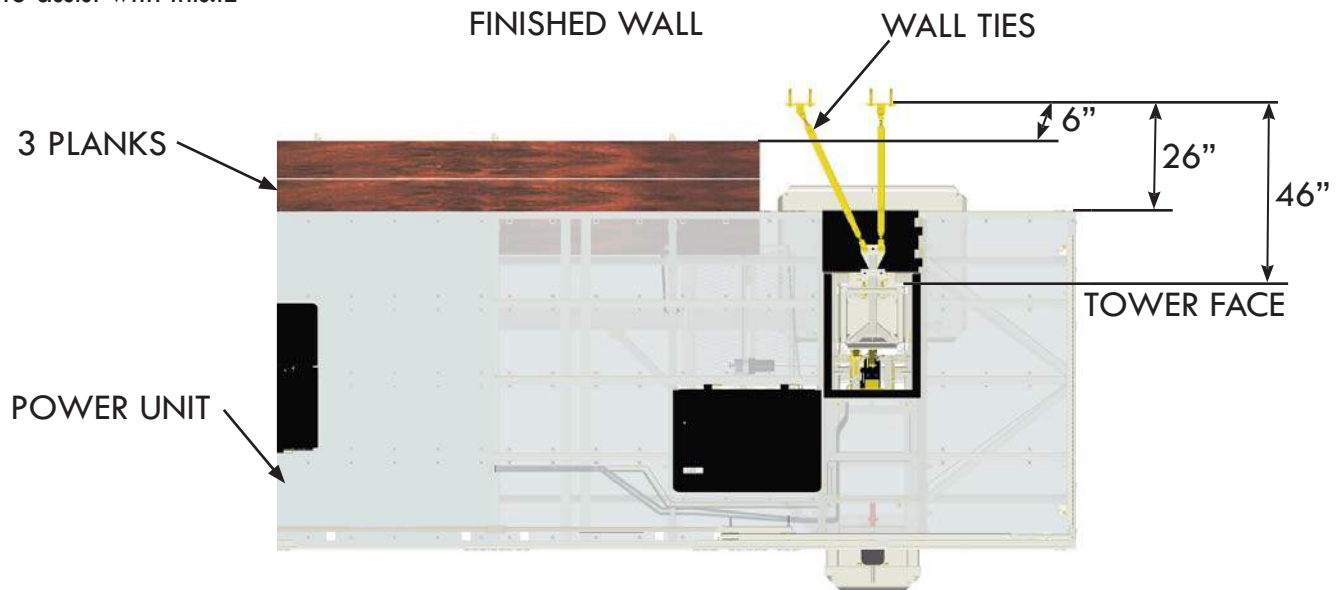
damage.

4. Unbolt the stabilizer beam from the base. Install two jacks with mud sills on each side of the tower base to form two individual bases. If you don't have extra jacks, use cribbing under each tower.

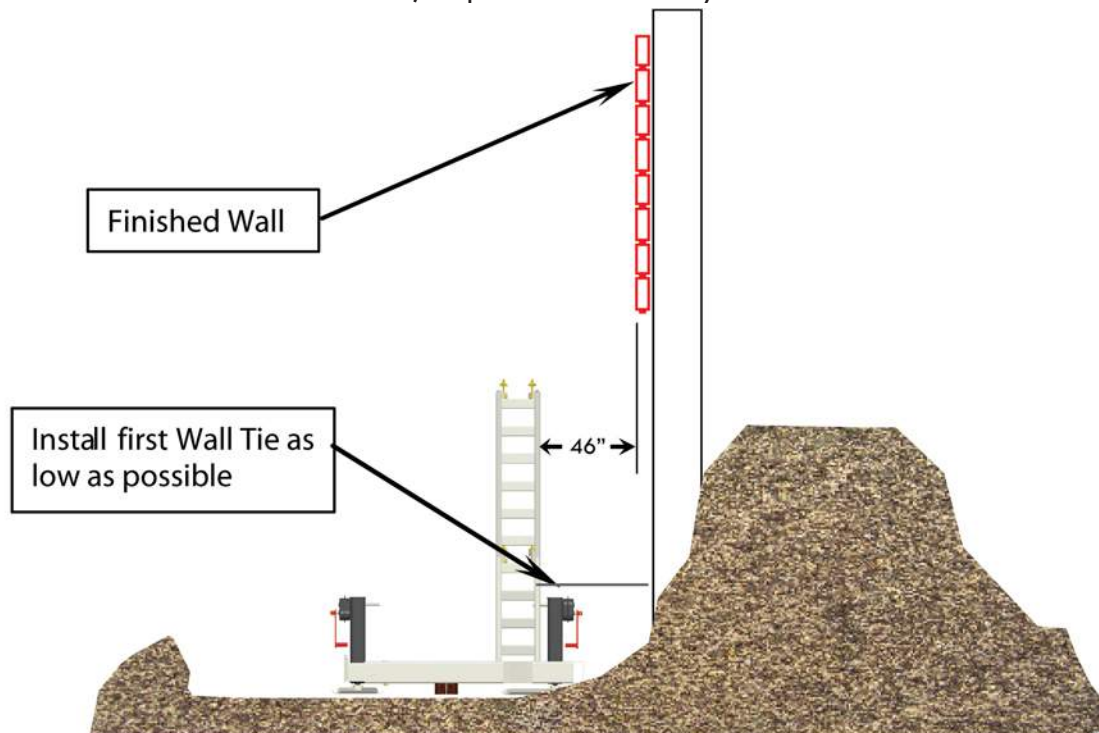
SPLITTING THE BASE

Install Lower Level Tower Base

5. Level and clean the area under the mud sills to an even compact surface on the lower ground level. Set the first base tower 46" from the finished wall, keeping the longer side of the base perpendicular to the wall. This allows for a three plank set up. Two plank forward of the face of the unit. Refer to the graphic on page 15 to assist with this.IE



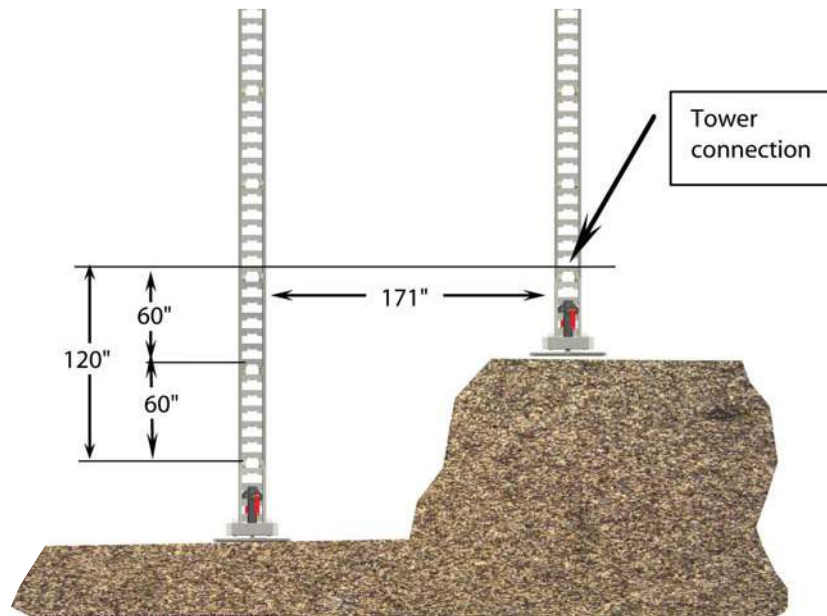
6. Install your first wall tie attachment from the base tower to the wall as low to the ground as possible, keeping the tower plumb on the front and side. Use one tower attachment and three stiff arms per wall tie attachment on the first two wall tie locations only. See page 55 for wall tie schedule.
7. Add two towers and install the second wall tie, re-plumb the assembly.



SPLITTING THE BASE

Install Upper Level Tower Base

- Level and clean the area under the mud sills to an even compact surface on the higher ground level. Set the first base tower 46" from the finished wall, keeping the longer side of the base perpendicular to the wall. Make sure to keep the height difference between the lower and higher ground levels a multiple of 60" (height of one tower), and hold a distance of 171" between the two towers.

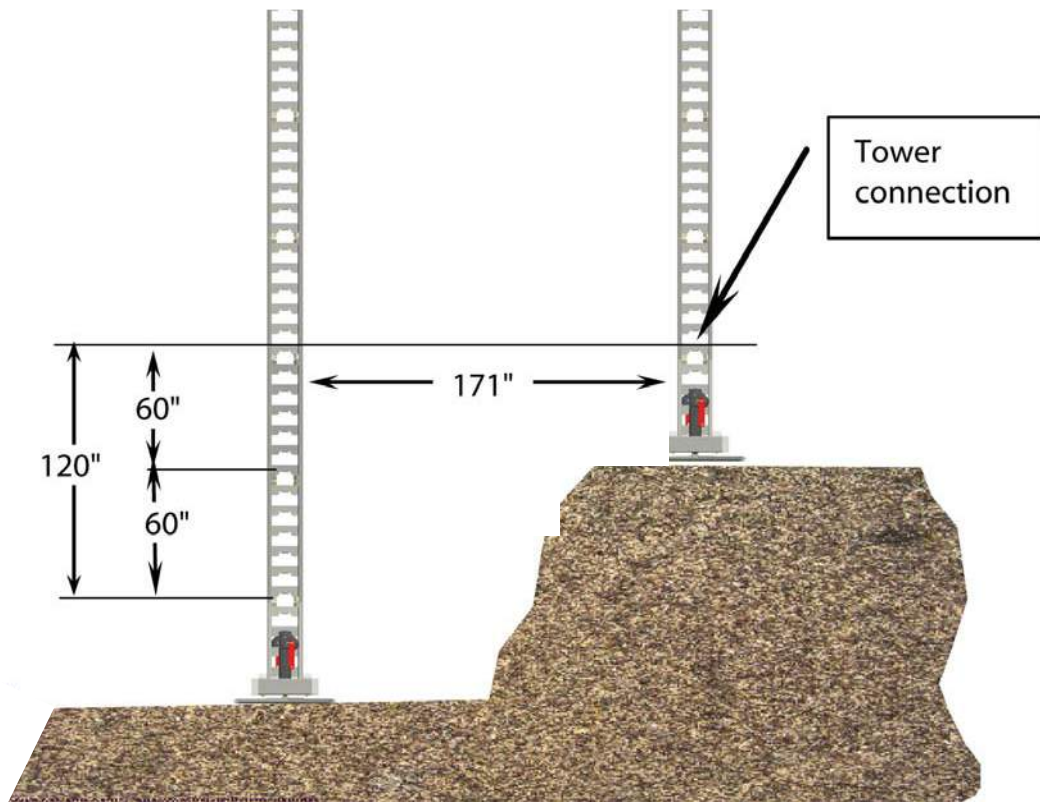


- Install your first wall tie from the base tower to the wall as low to the ground as possible, keeping the tower plumb on the front and side. Use one wall tie tower attachment and three stiff arms per wall tie attachment on the first two tie locations only. Refer to tie schedule for balance of ties.
- Leave some play in the first tie to allow for adjustment. Add one tower and install the second wall tie, re-plumb the assembly.

Place ProSeries Power Unit Back on Tower Base

- Use a forklift or crane to place the ProSeries Power Unit back onto the towers. Tighten all wall ties, making sure both towers are plumb.
- Install the safety and cylinder hooks, then unsecure the cylinders so they engage the towers.
- Raise the ProSeries Power Unit; install additional towers; install wall ties according to the wall tie schedule on page 55.

SPLITTING THE BASE



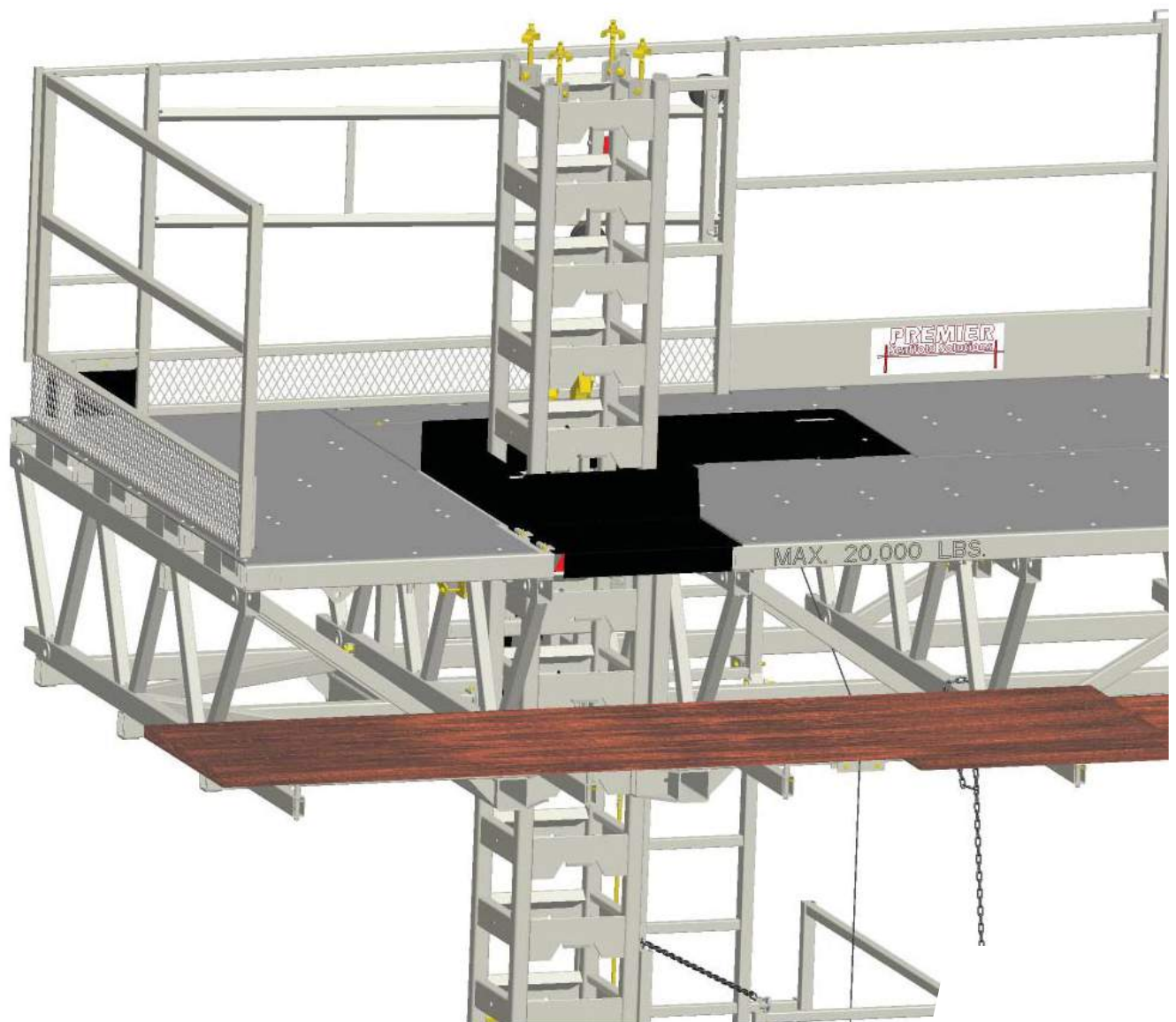
Splitting the Base for Confined Areas

15. The ProSeries Power Unit base can be split and installed with the long side parallel to the wall when space is limited. Follow the previous steps from splitting the base section but install the first tower rotated 90°. When the base is set up in this configuration, the ProSeries Power Unit can't be lowered on the base tower, because the access rung on the tower will be facing the cylinder hook.
16. To re-assemble the base, lower the ProSeries Power Unit to the ground removing all ties and towers, then follow steps 1 and 2 from splitting the base. Re-install the stabilizer beam using bolts. The distance between the inside of towers is 171" and is controlled by the stabilizer beam. Once bolted, they are in the correct location. Insert the ProSeries Power Unit back on its base and release all the hooks so they engage with the towers.

CHAPTER 4

SETTING UP THE PROSERIES POWER UNIT

- Guard Rail & Outriggers
- Tower Installation



GUARD RAIL & OUTRIGGERS

General Warnings for Planks

Plank overlap is subject to rules and regulations and must be closely followed. Planks **should** exceed the last outrigger; PREMIER recommends a 12" overlap. Never stand on any unsupported plank and ensure all open ends are securely blocked off.

Outriggers

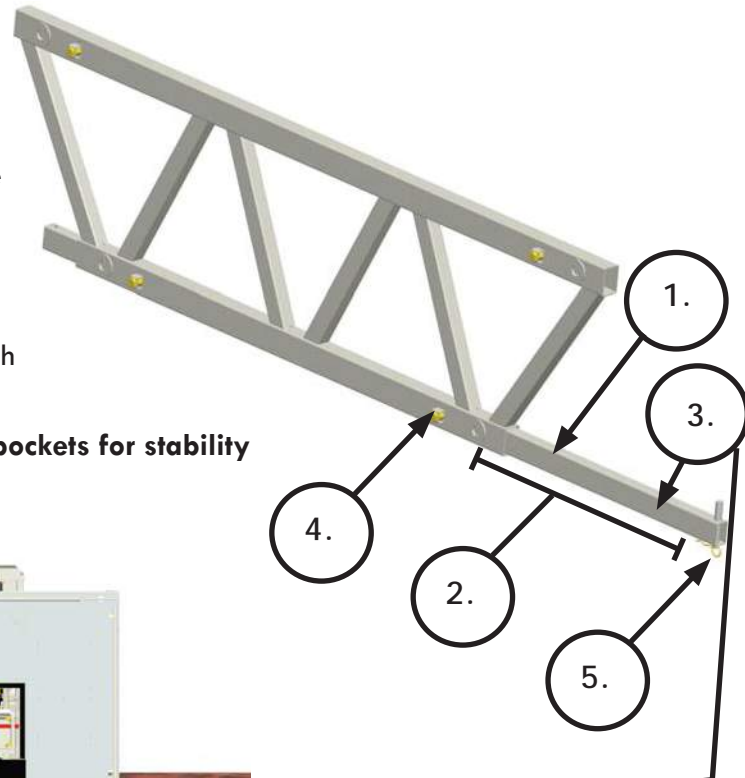
The ProSeries Power Unit offers ergonomically and safe work options with the lower outrigger planks being used for standing while the top outrigger planks, or the ProSeries Power Unit itself, being used for materials. In turn, the risk of back injury is minimized while production increases.

PREMIER offers three lengths of standard outriggers: 6', 8' and 10' Heavy Duty. Other outrigger lengths are also available for special applications, contact PREMIER's technical team for assistance.

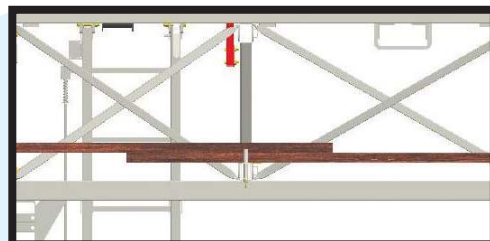
Outriggers offer a plank layout which will not interfere with the wall tie systems.

Overlapping planks in front of the towers allow for easy movement of planks while the ProSeries Power Unit is moving.

1. Slide the outrigger into its pocket or support tube.
2. Adjust to a desired length.
3. Working planks should cover most of the length of the outriggers - from the structure to the plank stop pins.
4. Tighten the 5/8" bolts located on the side of the support tubes, using a 15/16" wrench.
5. Make sure there is a plank stop pin on the end of each outrigger. Secure with a hitch pin.



When sliding an outrigger out, leave at least 2' inside the pockets for stability and support.



GUARD RAIL & OUTRIGGERS

Installing the Guard Rail

PREMIER offers 6 types of guard rails to provide for a safe, efficient and approved work area on the ProSeries Power Unit.

1. Standard 4', 5', 6', and 7' guard rail
2. Hanging guard rail
3. Mason guard rail
4. Rolling guard rail
5. Outrigger guard rail adaptor
6. Walkway guard rail

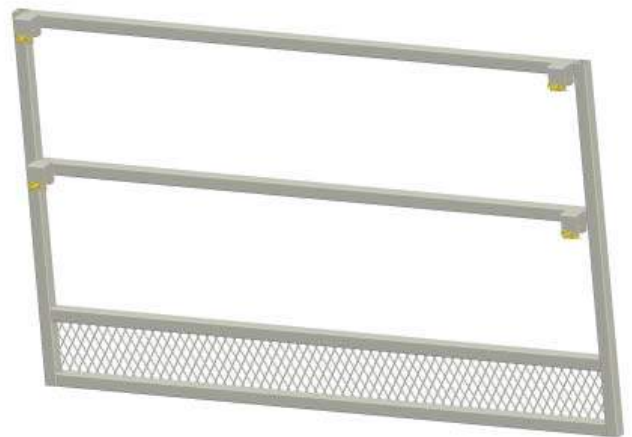
Standard 4', 5', 6', & 7' Guard Rail

- The standard 4' guard rail is the most commonly used and fits most positions on the unit, bridges and extensions.
- The 5' guard rail is used on the 4' bridge when used in an extension setup.
- The 6' guard rail is used on the 6' bridge.
- The 7' guard rail is used on the end of the ProSeries Power Unit or the end of a cantilever bridge.
- All of the standard guard rails can be used with the outrigger guard rail adaptor.



Hanging Guard Rail

- Hooks allow guard rail to be placed in places where there are gaps in the guard rail.



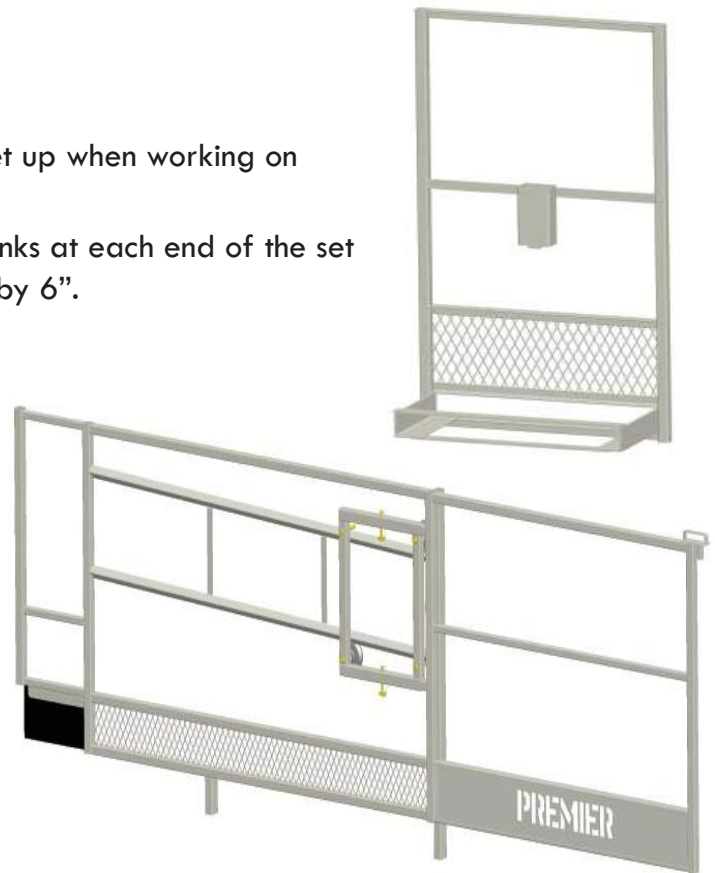
GUARD RAIL & OUTRIGGERS

Mason Guard Rail

- Use the mason guard rail to block ends of the set up when working on planks.
- Install the mason guard rail over all working planks at each end of the set up. Planks **should** exceed the mason guard rail by 6”.
- Secure in place with at least two nails.

Rolling Guard Rail

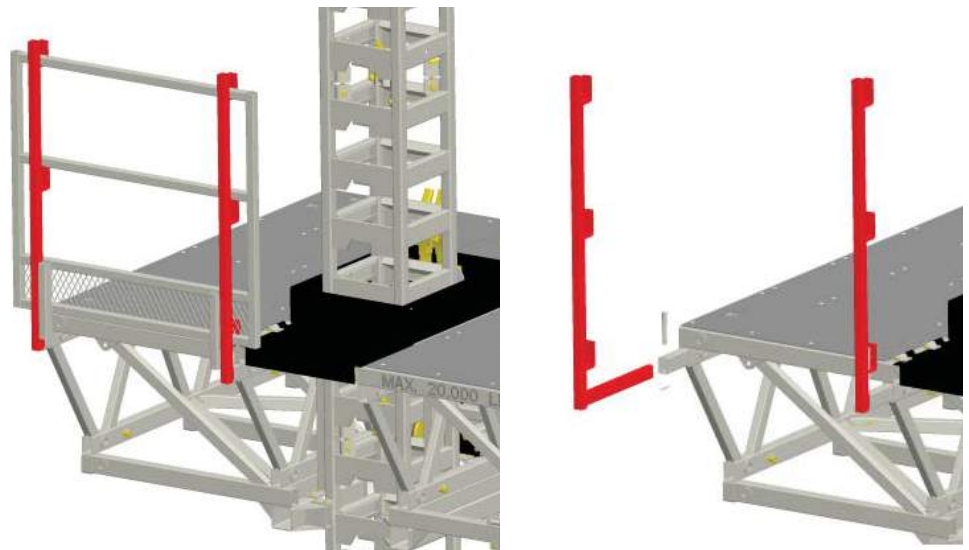
- The rolling guard rail eliminates the need to remove guard rails for material loading by providing an opening of 5' to 10' wide.
- The rubber flap located in the corner of the rolling guard rail eases installation of a bearing bridge.



Outrigger/Guard Rail Adaptor

The outrigger guard rail adaptor is used when the mason walk board area is exposed to large openings in the building face or exceeds the end of the wall.

- The guard rail adaptor is placed inside of the outrigger.
- It is locked in place with the plank stop pin.
- Any standard guard rail can be placed on the hooks.



GUARD RAIL & OUTRIGGERS

Walkway Guard Rail

Secures the same way as the standard guard rail, but is used on the walkway.

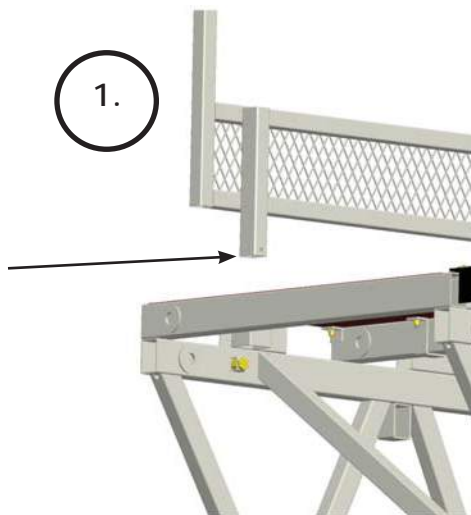


Securing the Guard Rail

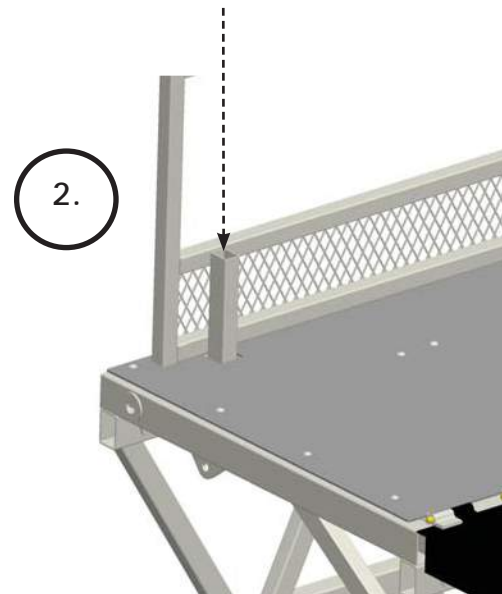
Each guard rail has two clevis pins to secure them in place.

To install and secure:

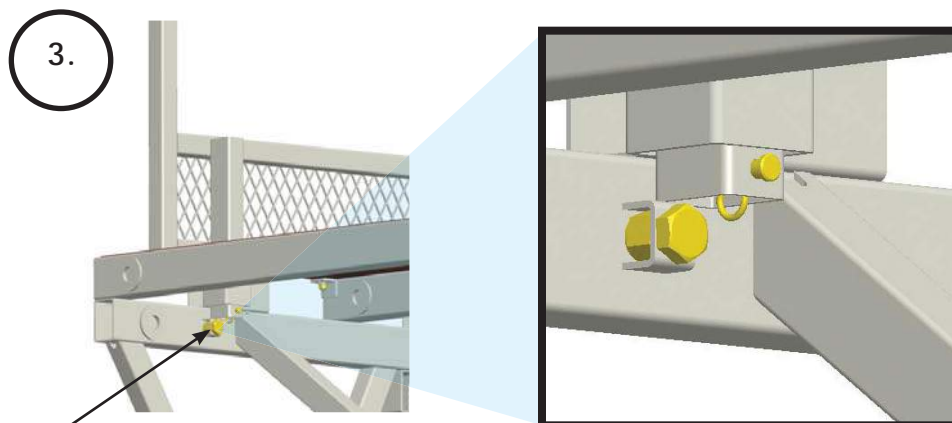
1. Remove clevis pin for installation.
2. Place post into pocket.
3. Secure with clevis pin.



Remove clevis pin for installation.



Place post into pocket.

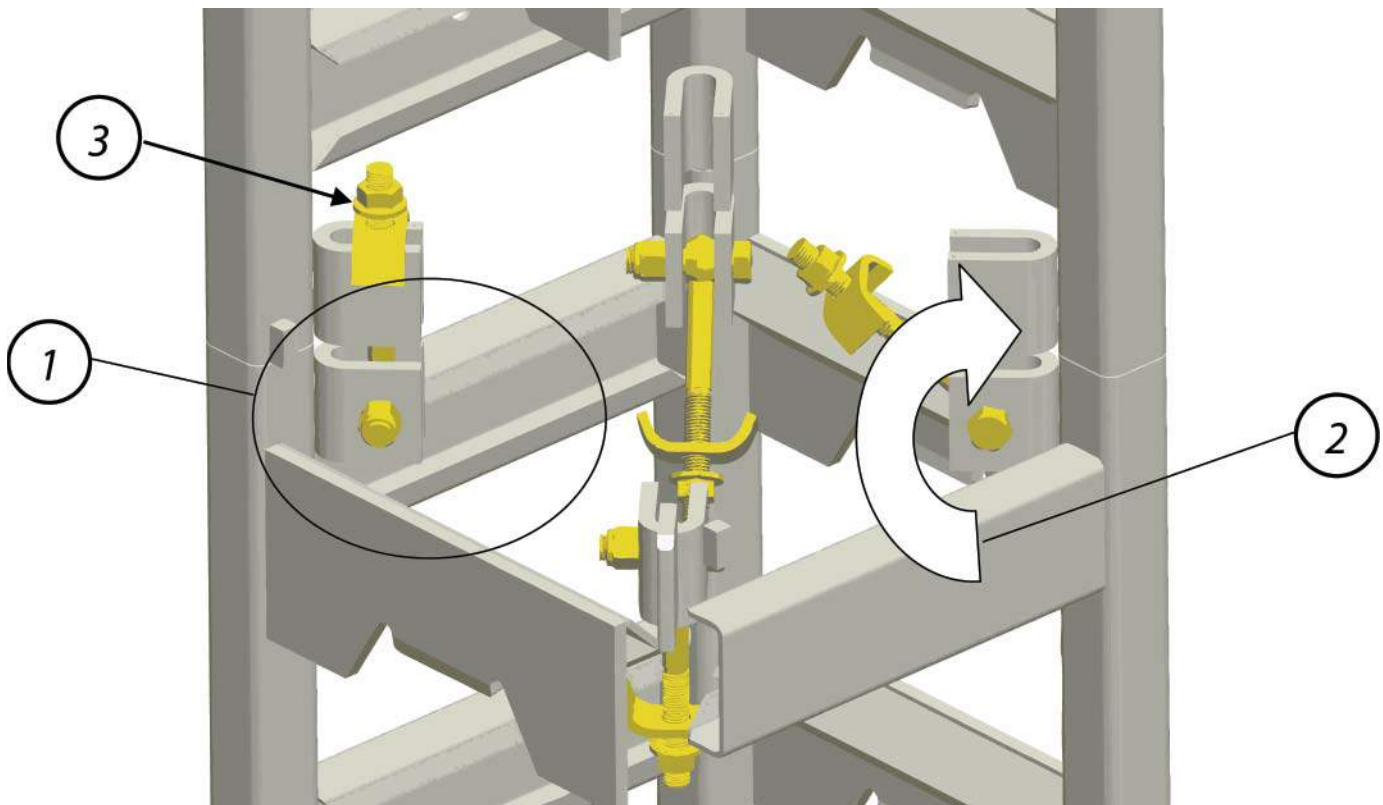


Secure with clevis pin.

TOWER INSTALLATION

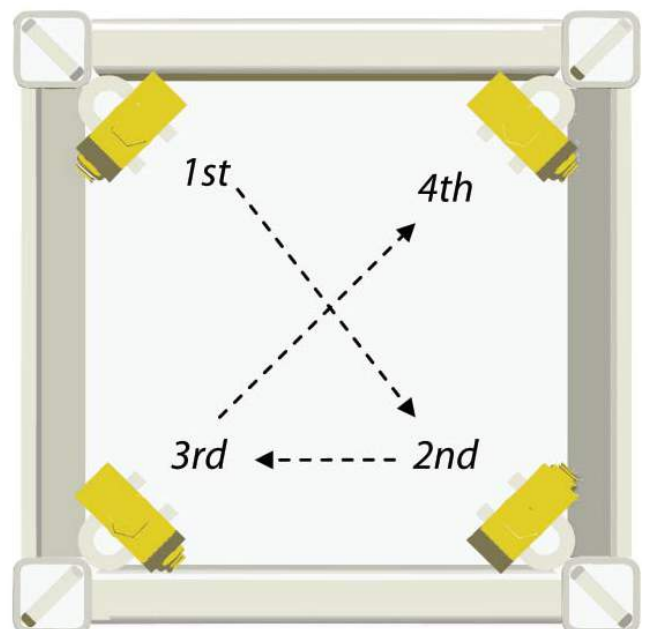
Tower Installation Procedures

1. Install each 5' tower, making sure rungs line up with subsequent tower.
2. Slide the 5/8 x 6 1/2" toggle bolt, washer and nut onto the connecting lug and hand tighten.
3. Torque all toggle bolts to 120 ft lbs in a diagonal pattern from corner to corner.
4. Raise the ProSeries Power Unit, repeat steps 1, 2 and 3.
5. Maintain plumb condition throughout the tower installation process.



Tower Removal & Transport

1. To remove one tower, loosen the toggle bolt assembly and disengage from connecting lug on all 4 corners.
2. Place the removed tower near the doorway.
3. Store towers on a flat surface away from construction traffic.



CHAPTER 5

OPERATOR INSTRUCTIONS

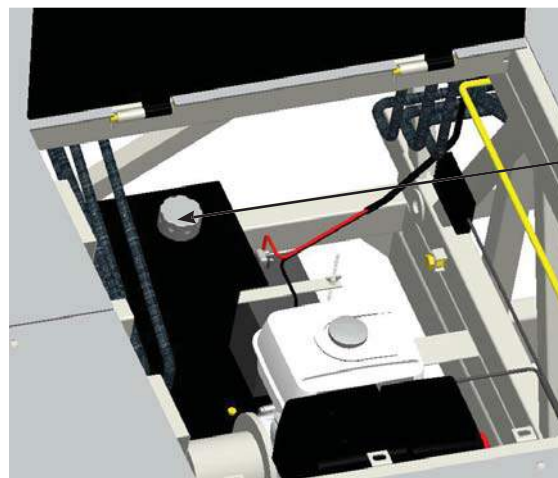
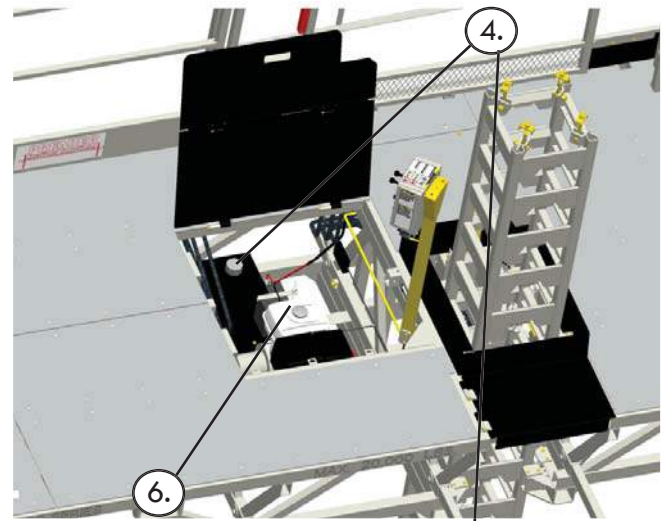
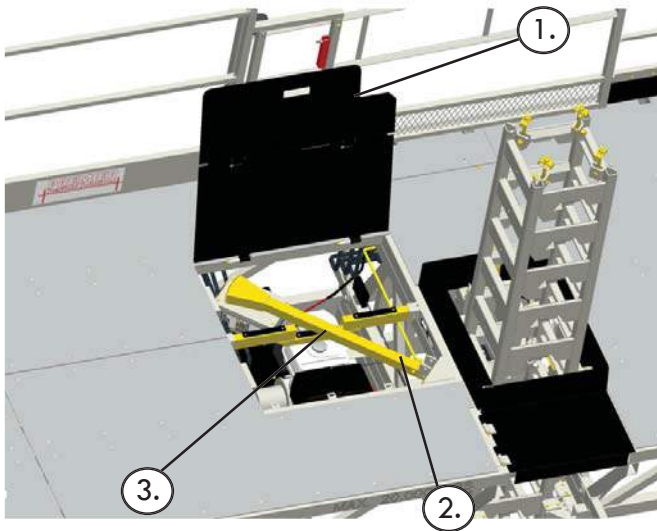
- Starting & Stopping the Engine
- Raising & Lowering the ProSeries Power Unit
- Loading the ProSeries Power Unit



STARTING & STOPPING THE ENGINE

Starting & Stopping the Engine

1. Open the power pack access doors.
2. Remove the locking pin from operator's station post.
3. Raise the operator's station post to the vertical position and replace the locking pin.
4. Check hydraulic fluid level with the dipstick located in the breather cap. ****Ensure the tank is at least 3/4 full.****
5. If additional fluid is required fill with ATF Dextron III.
6. Fill the gas tank and check the oil.



Breather Cap

STARTING & STOPPING THE ENGINE

Starting the Engine

1. Pull the choke.
2. Start the engine.
3. Allow the engine to warm up.
4. Release the choke.
5. Slowly pull the throttle to bring the engine operating speed and twist the handle clockwise to lock it in position.



Stopping the Engine

1. Twist the throttle counter-clockwise to unlock it; push down on the handle to reduce the engine speed to idle.
2. Allow the engine to idle for at least 30 seconds.
3. Shut off the engine, making sure the key switch is in the “OFF” position.

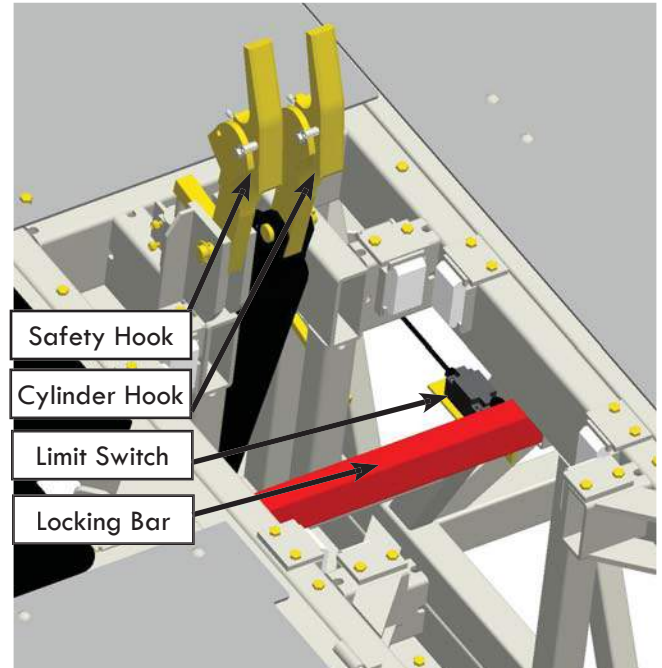


RAISING & LOWERING THE PRO SERIES POWER UNIT

Important Information

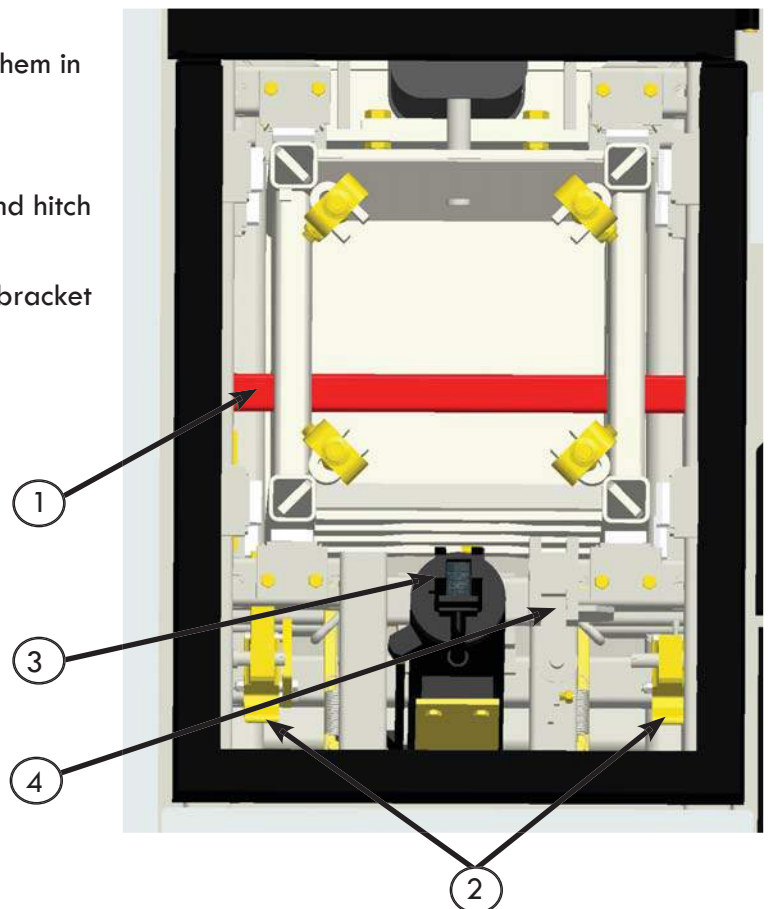
The ProSeries Power Unit is equipped with limit switches at both locking bars as well as the walkway. The limit switches will disable the “joysticks” to prevent potential damage to the ProSeries Power Unit.

NOTE: The yellow warning light on the operator station will be turned “ON” when any of the limit switches disable the “joysticks”. Remove locking bars or raise walkway to enable “joysticks” again.



Preparation

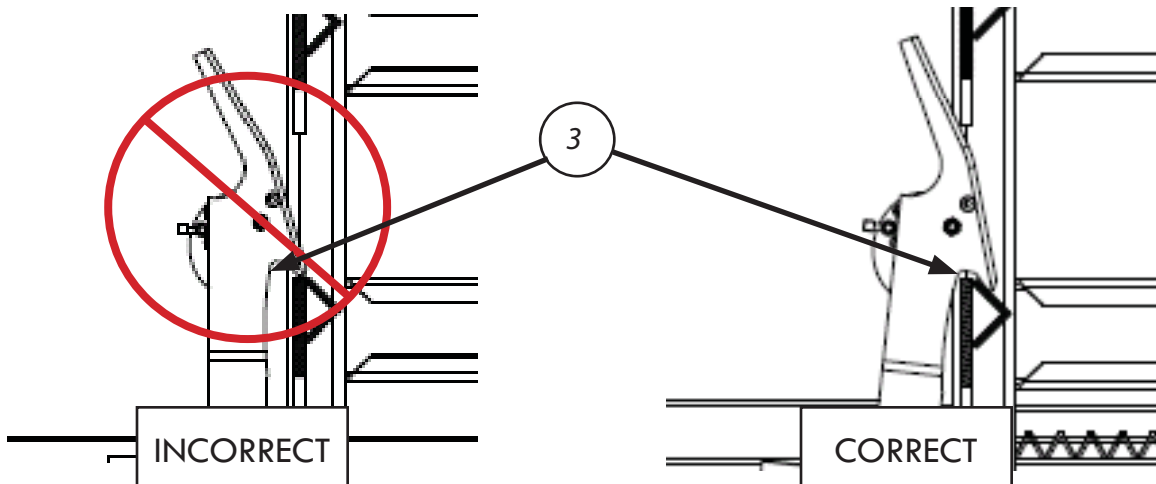
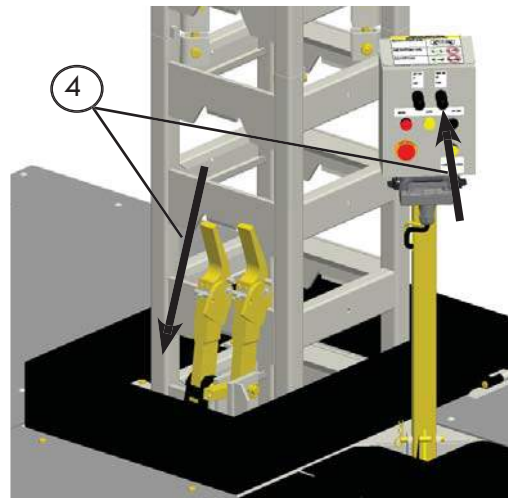
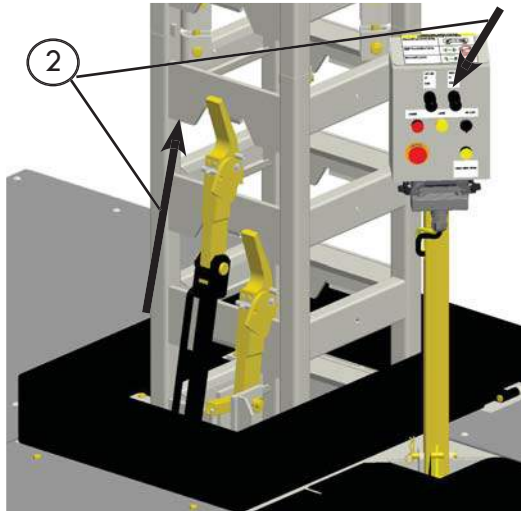
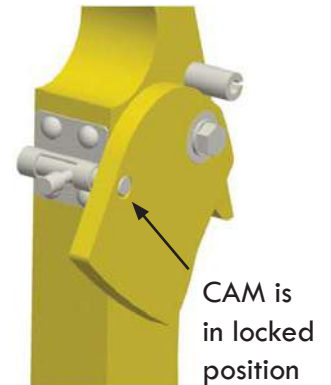
1. Remove locking bars on both towers, locking them in the open position.
2. Remove hooks from storage posts.
3. Install cylinder hook onto cylinder using pin and hitch pin clip.
4. Install safety hook onto ProSeries Power Unit bracket using pin and hitch pin clip.



RAISING & LOWERING THE PRO SERIES POWER UNIT

Raising the ProSeries Power Unit

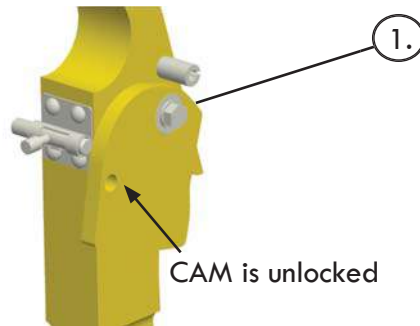
1. Using the locking device, lock the lowering cams on both the cylinder hook and the safety hook.
2. With engine running at full RPM, push both “joysticks” “DOWN”, to simultaneously extend both cylinders.
3. When the cylinders are fully extended and the hooks have moved slightly past the second tower rung, release the “joysticks”. At this point the hooks have snapped forward into the tower and are positioned to engage the rung and raise the ProSeries Power Unit. Visually verify that both cylinder hooks are engaged in the appropriate rung.
4. Pull both “joysticks” “UP” causing cylinders to retract and hooks to latch onto the tower rungs thereby raising the ProSeries Power Unit to a desired location, the lift can range from 10” to 20”.
5. Repeat steps 2, 3 and 4 to continue raising the ProSeries Power Unit.
6. Add towers and wall ties when required. Refer to tower and tie installation instructions.



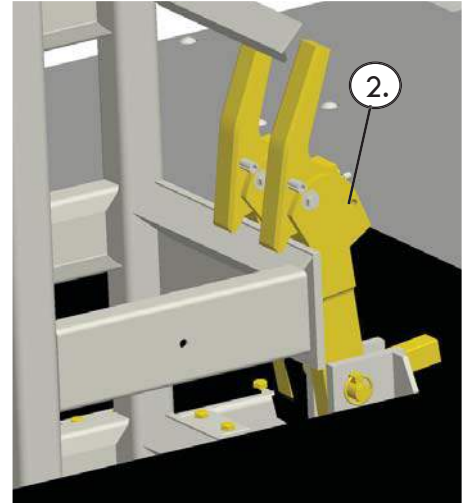
RAISING & LOWERING THE PRO SERIES POWER UNIT

Lowering the ProSeries Power Unit

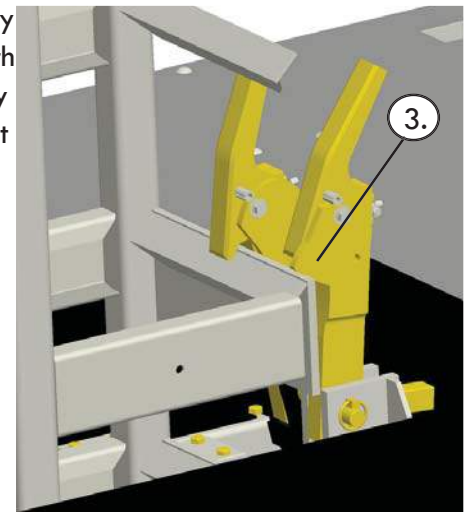
1. Using the locking device, unlock the lowering cams on both the cylinder hook and the safety hook.



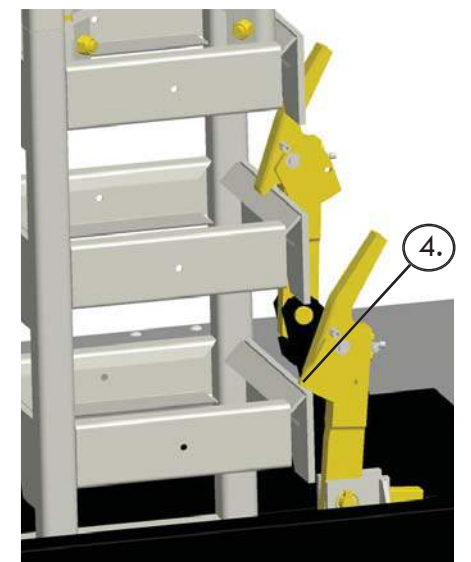
2. With the engine running at full RPM and the cylinder hook and safety hook side by side on the same rung in the retracted position. Pull both “joysticks” “UP” to raise the ProSeries Power Unit, allowing the safety hook cams to pivot toward the towers. When the cylinder bottoms out in the retracted position, release the “joysticks”.



3. Visually verify the safety hook cams on both towers are high enough to pivot freely and push the hooks away from the tower as they ride past the rungs while lowering the ProSeries Power Unit.



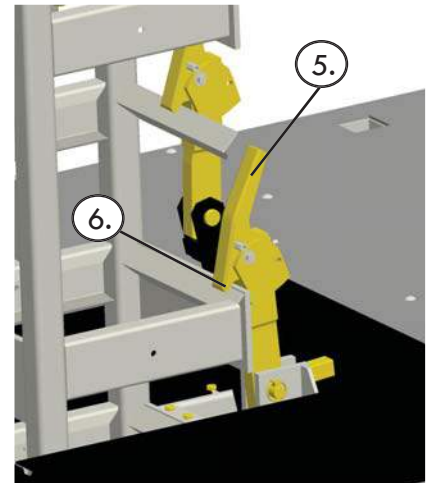
4. Push both “joysticks” “DOWN”, and the cams will cause the safety hooks to ride past one or two rungs (10” or 20”) until the desired position or full extension is reached. At this point the engine may slow down; release the “joysticks”, note that the safety hook has ridden slightly past the last rung.



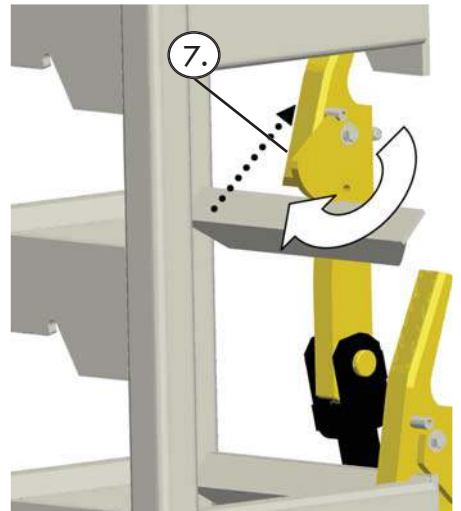
RAISING & LOWERING THE PRO SERIES POWER UNIT

Lowering

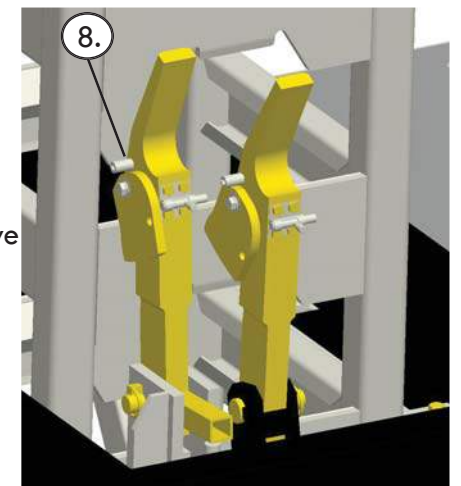
5. Pull both “joysticks” “UP” and raise the safety hook just enough for it to engage the nearest tower rung.
6. Visually verify that the safety hooks are latched on both towers.



7. Push both “joysticks” “DOWN” until the cylinder hook is fully extended and the cams pivot toward the towers, note the engine may slow down; release the “joysticks”.



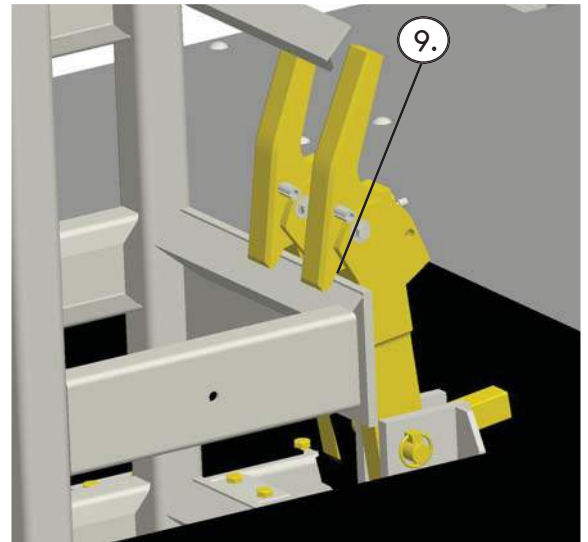
8. Pull both “joysticks” “UP” and the cams will cause the cylinder hooks to ride past one or two rungs (10” or 20”) until the desired position or full retraction is reached, the engine may slow down; release the “joysticks”. At this point cylinder hook is resting on the face of the rung and must move up to the latched position.



RAISING & LOWERING THE PRO SERIES POWER UNIT

Lowering

9. Push both “joysticks” “DOWN” extending both cylinder hooks up just enough to allow them to engage and latch onto the nearest rung. At this point the cylinder hooks and safety hooks are side-by-side on the same rung in the retracted position.
10. Repeat steps 2 through 9 to continue lowering the ProSeries Power Unit.



Warning

To pass wall ties, slide planks away from front of towers and open wall tie bypass doors. The use of fall protection equipment is mandatory when doing this work. Also, use of shorter planks in front of towers will facilitate this work.

LOADING THE PROSERIES POWER UNIT

To fully appreciate the ProSeries Power Unit, loads must be distributed evenly over the entire ProSeries Power Unit. Keep materials towards the front of the unit and bridges to allow for passage along the backside of the ProSeries Power Unit. This minimizes torque on the towers and provides a safe passage for workers and brick carts.

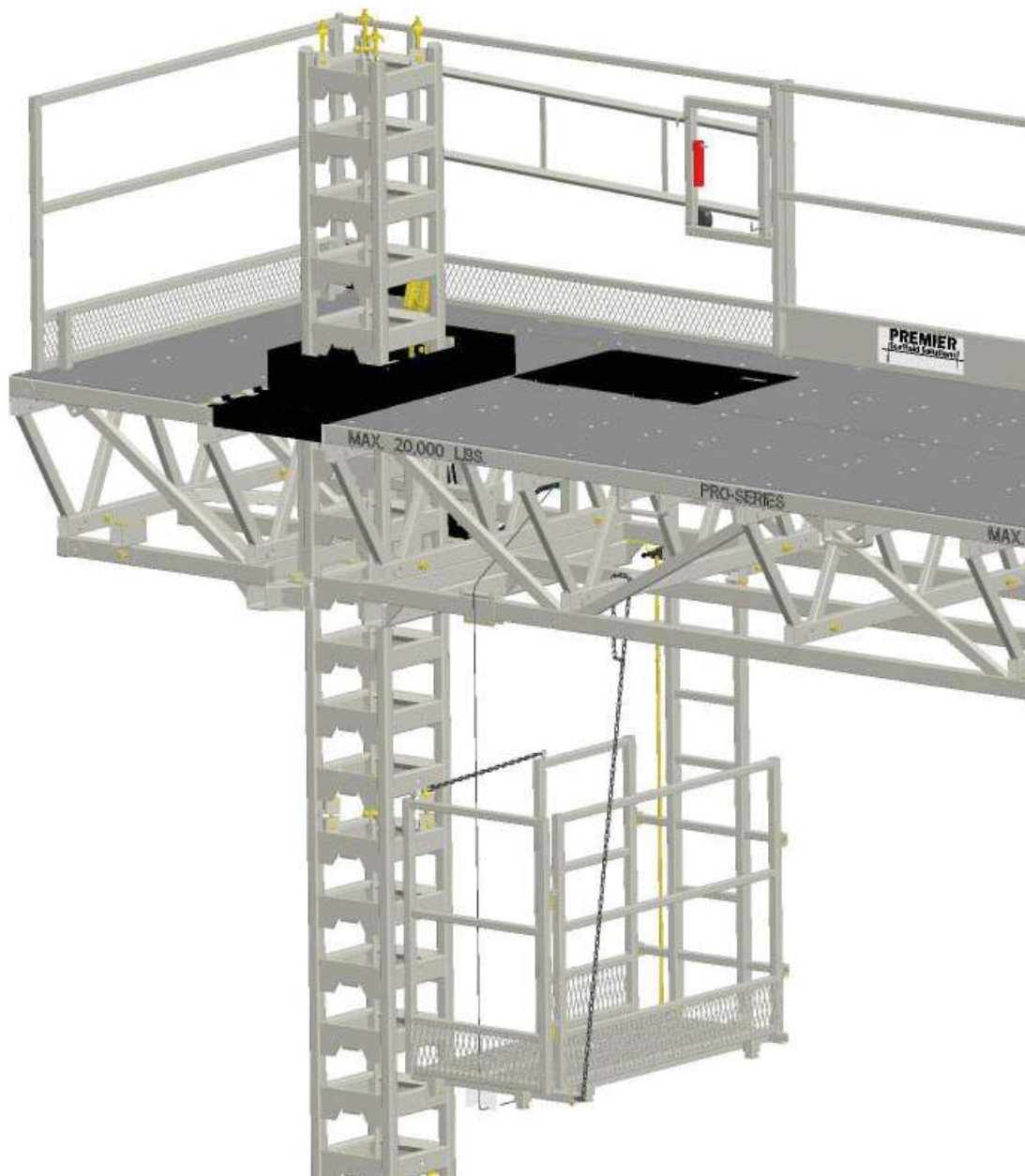
Refer to bridge section of this manual for bridge and extension load charts for guidance. The first material load should be placed near the center of the unit, between the towers. The next loads should be placed alternatively, left and right, ensuring loads remain balanced.



CHAPTER 6

ACCESS

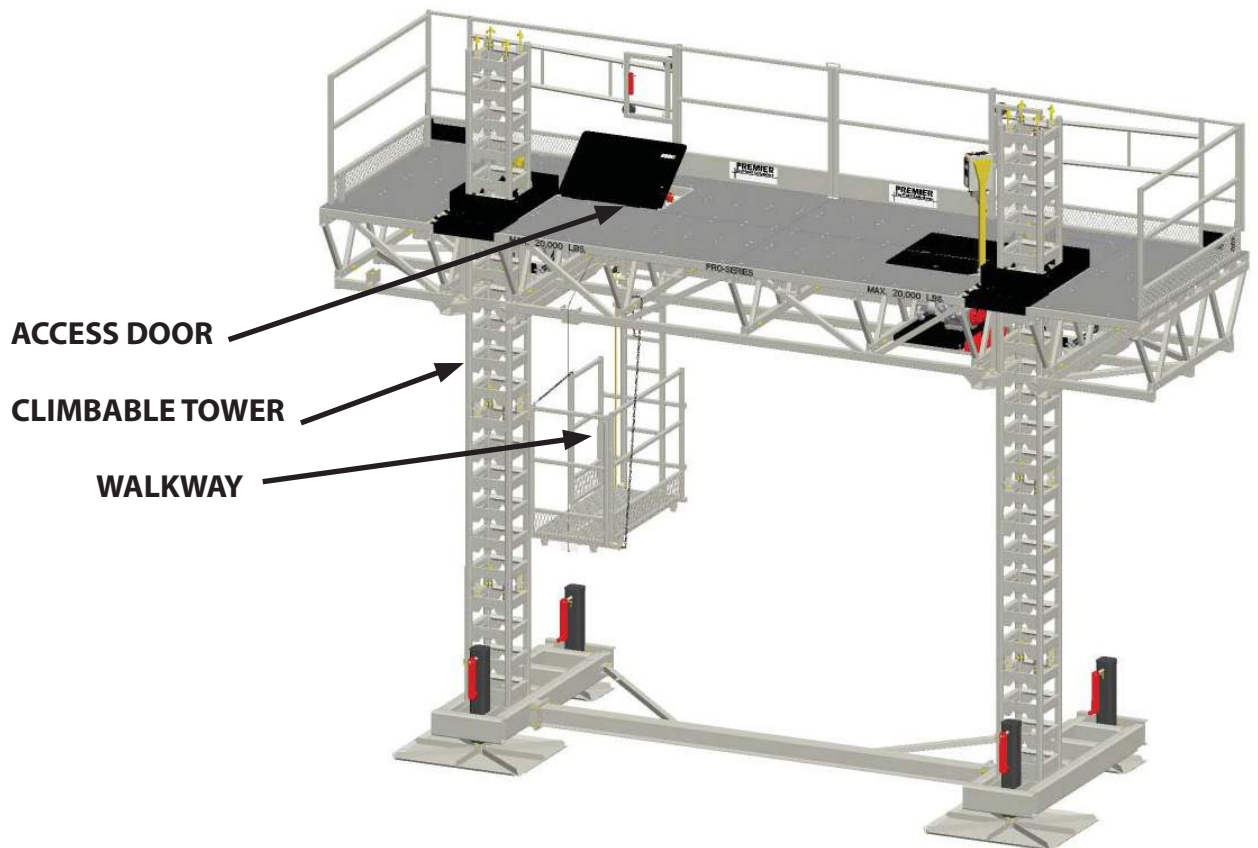
- Accessing the ProSeries Power Unit
- Walkway Lowering Procedure
- The Rest Platform



ACCESSING THE PROSERIES POWER UNIT

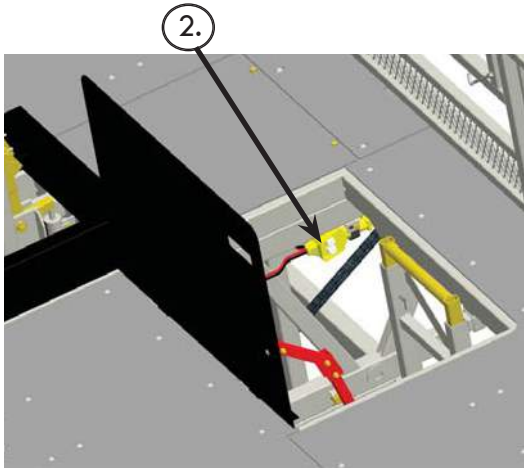
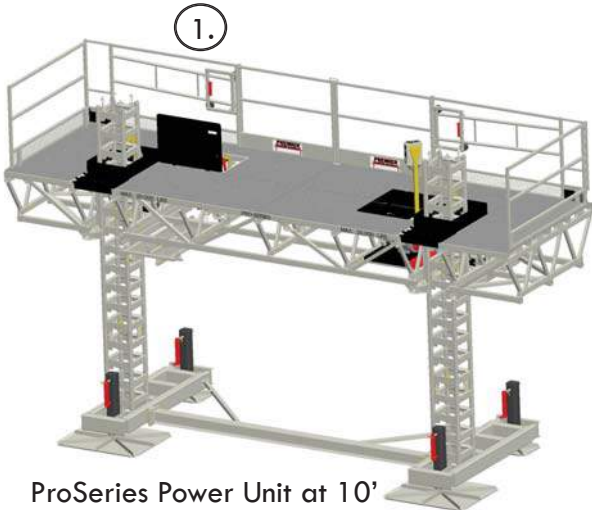
PREMIER recommends the use of a staircase and opening in the building to access the ProSeries Power Unit at all elevations.

1. To reach the work area when the ProSeries Power Unit is between 0' and 10' high, climb up tower rungs on wall side of machine making sure wall tie bypass door is unobstructed for passage.
2. To reach the work area when the motorized unit is above 10', PREMIER recommends the use of a staircase and opening in the building. If unavailable, climb tower rungs up to the walkway, then onto the work area.

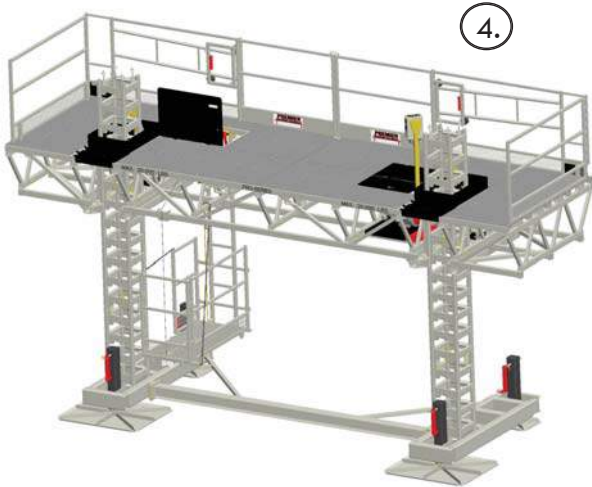
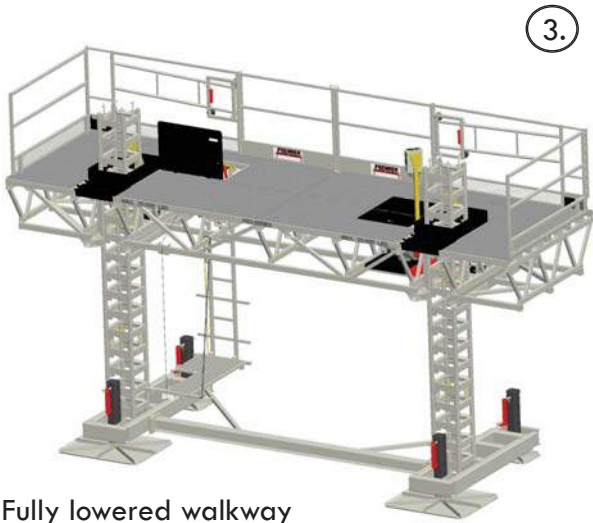


3. When accessing from a building is not available, and the ProSeries Power Unit height is less than 70', then climbing the tower is permissible using a full body harness with retracting lifeline and rest platforms every 30'.

WALKWAY LOWERING PROCEDURE



Unretract winch using controller



Install guard rail after lowered. See page 24 for instruction.

THE REST PLATFORM

NOTICE

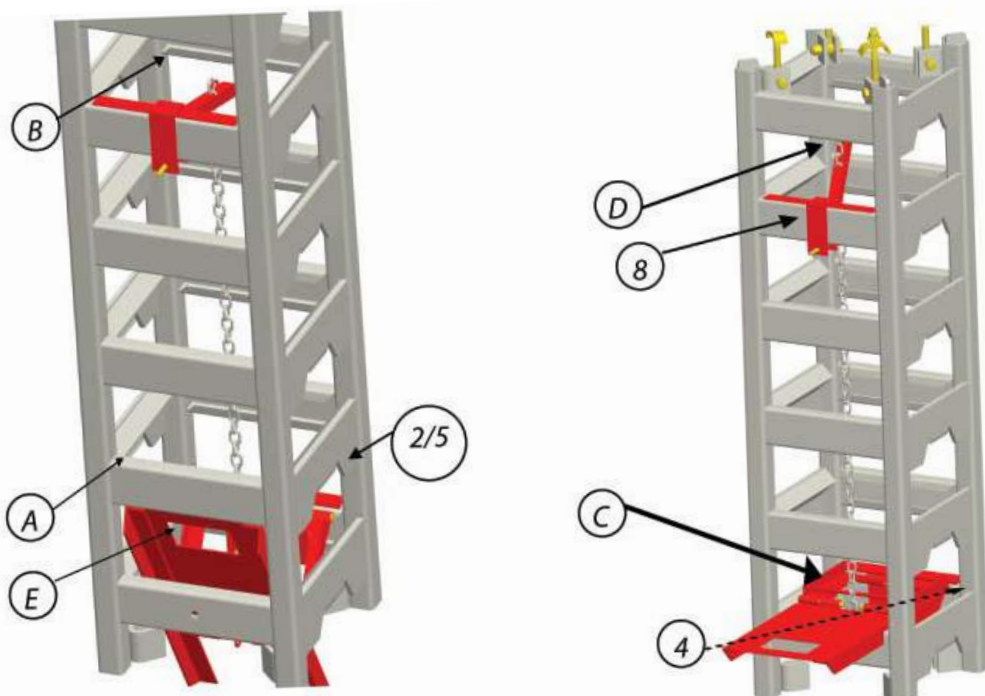
The use of a retractable rest platform is recommended to access jobs up to 70'. PREMIER does not recommend using the climbable tower above 70'.

Installation Procedure

1. The rest platform should be installed from the ProSeries Power Unit deck or a man basket underneath the ProSeries Power Unit. Rest platforms must be installed every 30' of exposed tower underneath the ProSeries Power Unit.
2. Remove the 3/8" bolts and nuts from the folded part.
3. Unfold the rest platform and leave handle on top.
4. Slide the rest platform inside the tower with the step on the climbing side.
5. Install the folded part on the back tower step using 3/8" bolts and nuts.
6. Let the rest platform retract slowly inside the tower.
7. Remove the 3/8" bolt and nut from the handle.
8. Install the handle 5 steps above the rest platform. Use the 3/8" bolt and nut.
9. Test the rest platform by raising the handle. Doing so will retract the rest platform from inside the tower. If handle is released rest platform will fold itself inside the tower.
10. If test works properly, you are safe to use the rest platform.

Using the Rest Platform

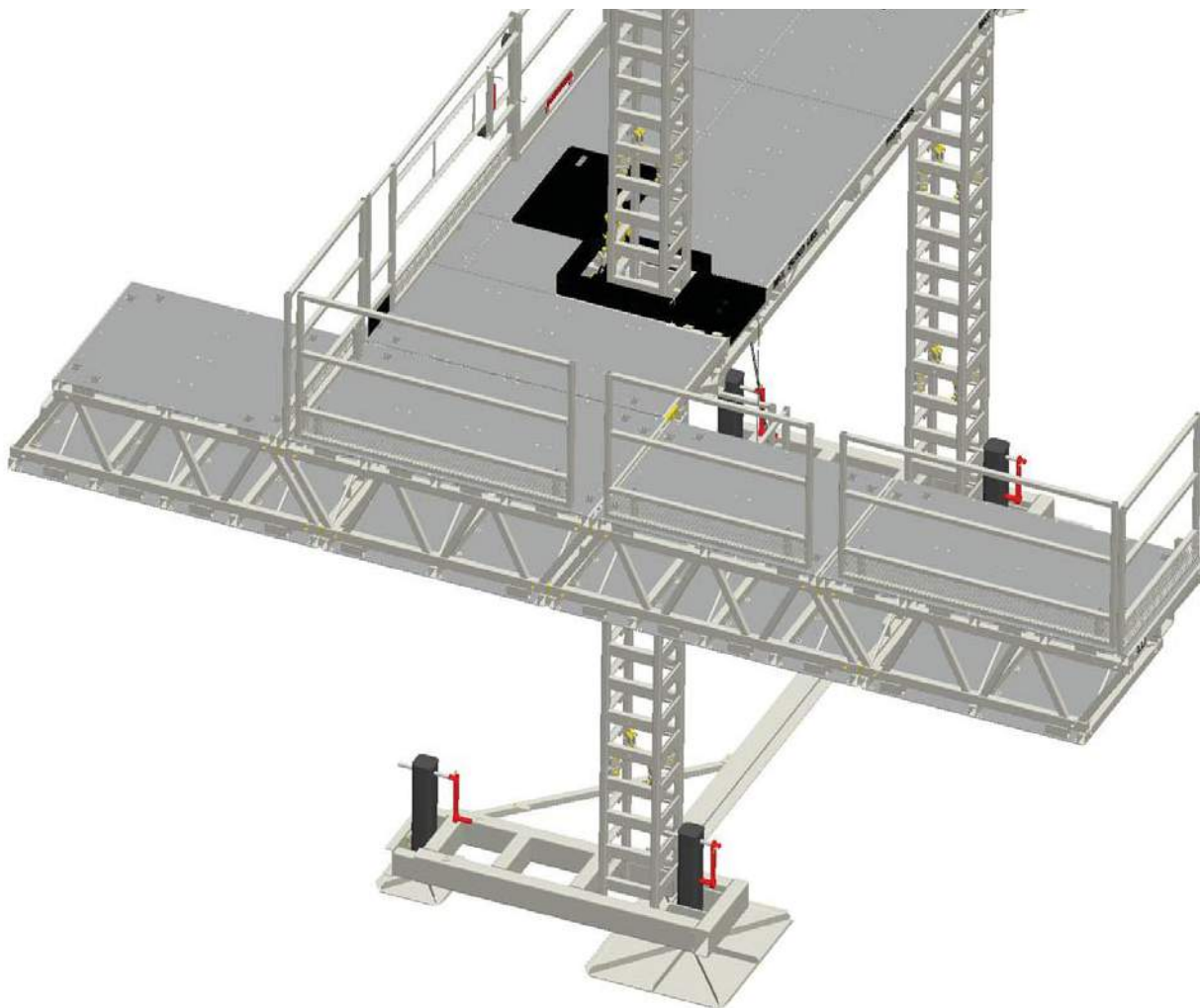
- A. Climb the tower until one step above the rest platform.
- B. Raise the handle to retract the rest platform from the tower.
- C. Step on the rest platform as handle reaches vertical position.
- D. Once you are on the rest platform release the handle.
- E. When you will start climbing again the rest platform will retract into the tower automatically.



CHAPTER 7

BRIDGES & EXTENSIONS

- Bridges
- Applications
- Connecting
- Bearing Bridge
- Cantilever Bridge
- Extension Bridge
- Bearing Mode Load Chart
- Cantilever Mode Load Chart
- Extension Mode Load Chart



BRIDGES

4' BRIDGE	
DIMENSIONS	7' X 4'*
WEIGHT	975 lbs w/standard accessories
GUARD RAILS	One 4' Standard guard rail
PRO BARS	Eight on one end only (5 top) (3 Bottom)
PRO BAR PINS & CLIPS	16 - located on both sides of the bridge
OUTRIGGERS	One 8' (Bottom)

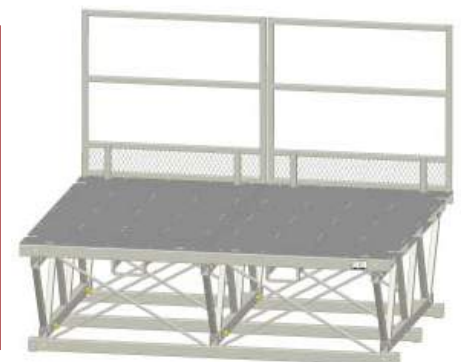
*when used as forward extension, deck will be 5' x 4'.



6' BRIDGE	
DIMENSIONS	7' x 6'
WEIGHT	1,175 lbs w/standard accessories
GUARD RAILS	One 6' guard rail
PRO BARS	Eight on one end only (5 top) (3 Bottom)
PRO BAR PINS & CLIPS	8 - located on both sides of the bridge
OUTRIGGERS	One 8' (Bottom)
ATTACHMENTS	Two bearing bridge chains



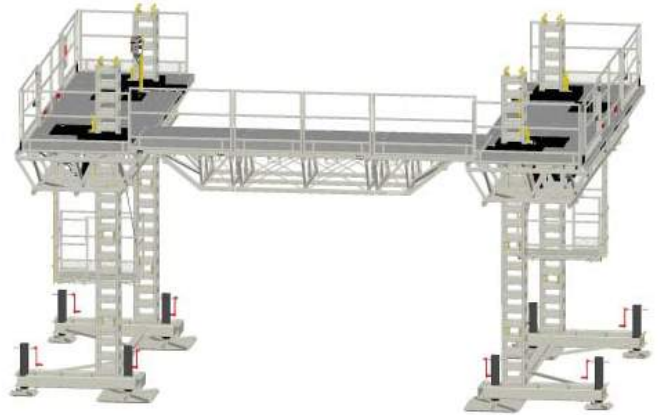
8' BRIDGE	
DIMENSIONS	7' x 8'
WEIGHT	1,350 lbs w/standard accessories
GUARD RAILS	Two - 4' Standard guard rails
PRO BARS	Eight on one end only (5 top) (3 Bottom)
PRO BAR PINS & CLIPS	16 - located on both sides of the bridge
OUTRIGGERS	Two 8' (Bottom)



APPLICATIONS

Bearing Mode

Bearing bridges are preassembled and positioned between two ProSeries Power Units. Any combination of 4' or 8' bridges, with a 6' bearing bridge at each end, can be used for a bearing bridge. The maximum bearing bridge length is 60'.



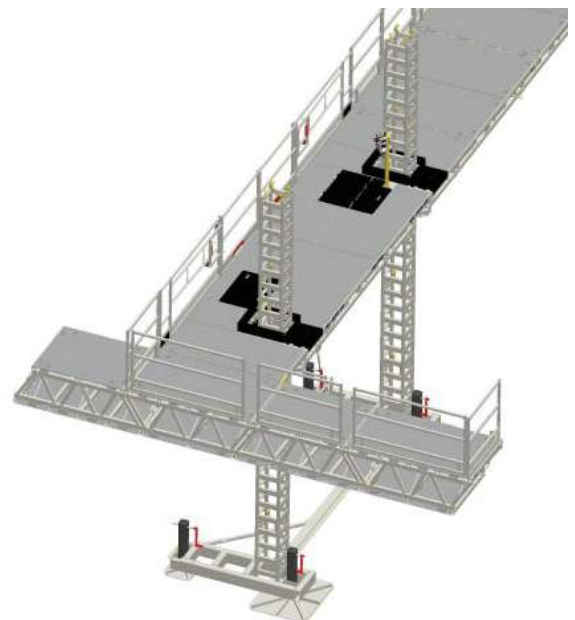
Cantilever Mode

Cantilever bridges are directly connected to the ProSeries Power Unit using the Pro Bar System. Any combination of 4', 6', or 8' bridges can be used for a cantilever set up. The maximum cantilever length is 20' on each side of the ProSeries Power Unit.



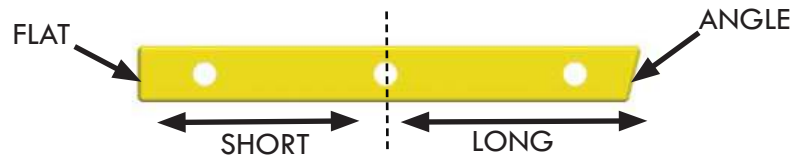
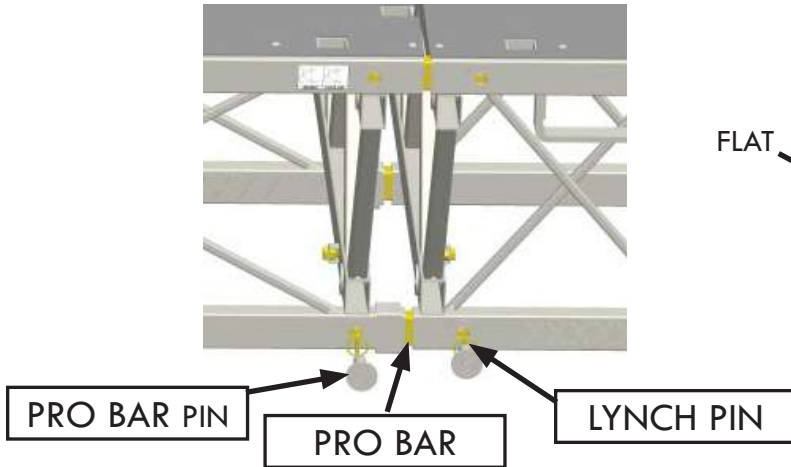
Extension Mode

Extension bridges are created by alternatively placing 4' Bridges to the end, front or back of the ProSeries Power Unit.



CONNECTING

The Pro Bar System consists of a Pro Bar, Pro Bar Pin and Lynch Pin Clip and is used to connect most of PREMIER'S components and accessories. Pro Bars are stored only in one end of any of the ProSeries bridges, (5 Top) and (3 Bottom), and are held in place with the Pro Bar Pins and Lynch Pin Clips.

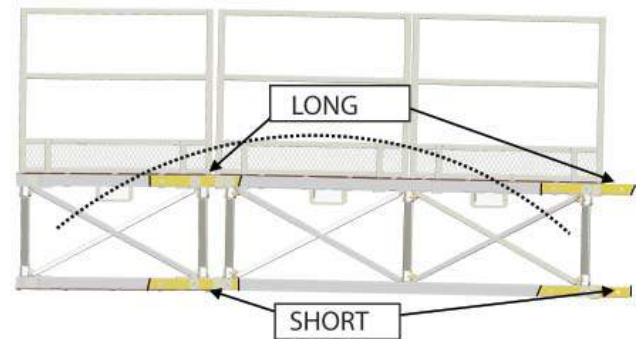


How the Pro Bar Works

NOTE: Only two holes are used at any given time. The **CENTER** hole is **ALWAYS** used.

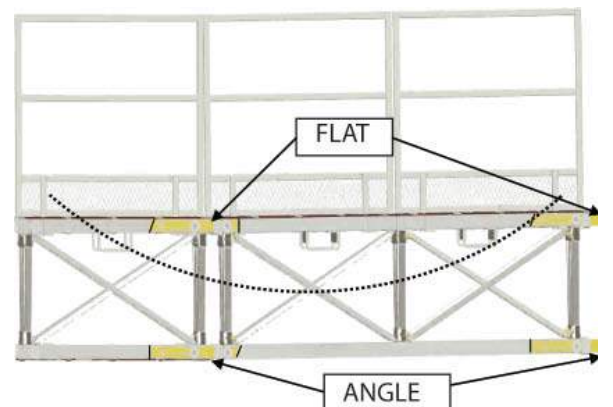
Bearing Bridge

1. The object of the bearing bridge is to create an arch or crown in the bridge assembly.
2. This is accomplished by using the center hole and the angled side of the pro bar in the top pockets of the bridge, creating a larger gap between bridges at the top.
3. Using the center hole and the flat side on the bottom pockets of the bridge will create a smaller gap between bridges at the bottom.
4. This causes the middle of the bridge to be higher than the ProSeries Power unit, but will return to a flat condition as material is loaded.



Cantilever Bridge

1. The object of the cantilever bridge is to slightly elevate the end of each bridge with every connection.
2. This is accomplished by using the center hole and the flat side of the pro bar on the top pockets of the bridge, creating a smaller gap between bridges at the top.
3. Using the center hole and the angle side of the pro bar on the bottom pockets of the bridge will create a larger gap between the bridges at the bottom.
4. This causes the end of the cantilever bridge to be higher than the ProSeries power unit and will return to a flat condition as material is loaded.



BEARING BRIDGE

NEVER place hands or arms between bridges when connecting bridges.

- The maximum bearing bridge length is 60'.

Procedures

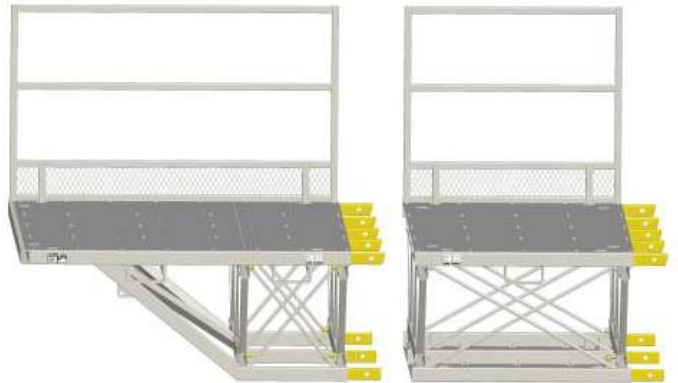
*PREMIER recommends that you assemble the bridges from left to right. Assembling bearing bridges this way, will ensure the installer knows that the angled end of the Pro Bar is inside the bridge on the right side. When disassembling the bearing bridge disassemble from left to right as well. This makes for easier disassembly at the end of the job.

Building a Bearing Bridge

1. Insert the flat side of the pro bar all the way into the top pockets of the bridge and secure the “center hole” of the pro bar in place with the pro bar pins.
2. Insert the angle side of the pro bar all the way into the bottom pockets of the bridge and secure the “center hole” of the pro bar in place with the pro bar pins.
3. This will leave the angle side of the pro bar exposed at the top and the flat side of the pro bar exposed at the bottom with one hole visible.

*Follow steps 1-3 for all five (5) Pro Bars in the top outrigger pockets, and all three (3) Pro Bars in the bottom outrigger pockets.

4. Using slings through the frame, suspend the bridge from a fork lift or crane. Maneuver the bridge so the Pro Bars slide into the pockets.
5. Adjust the bridge until the Pro Bar hole lines up with the **top two outside** holes of the first bridge.
6. Insert Pro Bar pins through the bridge and Pro Bar holes securing them with lynch pins.
7. Once the top two outside connections are secure, pin the three remaining connections on top.
8. Using a forklift or crane, adjust the end of the bridge up or down until the bottom connection holes align.
9. Insert Pro Bar pins through the bridge and Pro Bar holes securing them with lynch pins.



BEARING BRIDGE

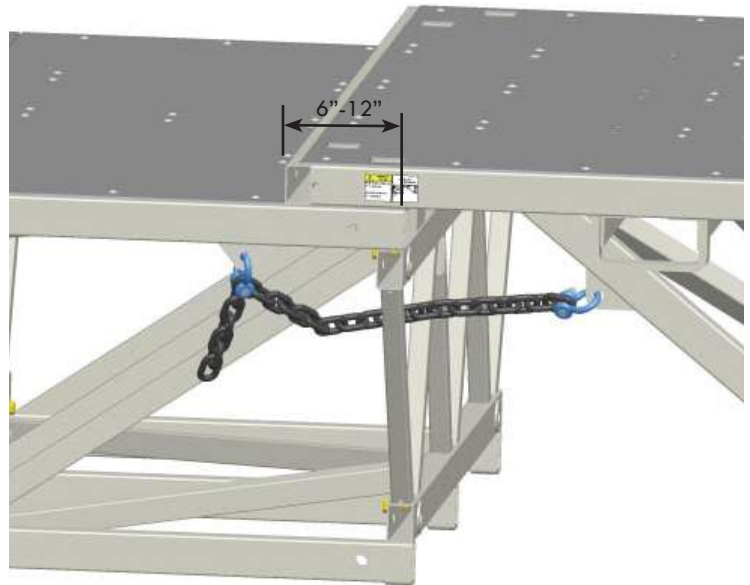
Positioning/Attaching the Bearing Bridge

Position the two (2) ProSeries Power Units so each end of the bearing bridge overlaps onto the ProSeries Power Units, from 6" minimum to 12" maximum.

Attaching Bearing Bridges

The 6' bridge includes two (2) chains for attaching to the ProSeries Power Unit.

1. Secure the chain to the ProSeries Power Unit using the clevis.
2. Adjust the length of the chain using the clevis, leaving approximately 1 link of slack.



CANTILEVER BRIDGE

NEVER place hands or arms between bridges when connecting bridges.

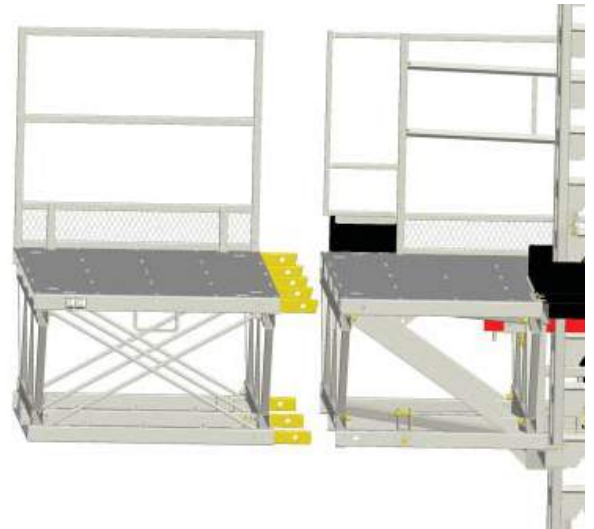
- The maximum cantilever length is 20 feet on each side of the ProSeries Power Unit.
- It is possible to install 20' of bridge in cantilever mode on one end of the ProSeries Power Unit before installing the same on the opposite end.

Procedures

*PREMIER recommends that you assemble the bridges from left to right. Assembling cantilever bridges this way, will ensure the installer knows that the flat end of the Pro Bar is inside the bridge on the right side. When disassembling the bearing bridge disassemble from left to right as well. This makes for easier disassembly at the end of the job.

Building the Cantilever Bridge

1. Insert the angle side of the pro bar all the way into the top pockets of the bridge and secure the “center hole” of the pro bar in place with the pro bar pins.
2. Insert the flat side of the pro bar all the way into the bottom pockets of the bridge and secure the “center hole” of the pro bar in place with the pro bar pins.
3. This will leave the flat side of the pro bar exposed at the top and the angle side of the pro bar exposed at the bottom with one hole visible.



Attaching to a ProSeries Power Unit or Bridge

4. Using slings through the frame, suspend the bridge from a fork lift or crane. Maneuver the bridge so the Pro Bars slide into the pockets.
5. Adjust the bridge until the Pro Bar hole lines up with the **top two outside** holes of the ProSeries Power Unit or bridge.
6. Insert Pro Bar pins through the bridge and Pro Bar holes securing them with lynch pins.
7. Once the top two outside connections are secure, pin the three remaining connections on top.
8. Using a forklift or crane, adjust the end of the bridge up or down until the bottom connection holes align.
9. Insert Pro Bar pins through the bridge and Pro Bar holes securing them with lynch pins.



EXTENSION BRIDGE

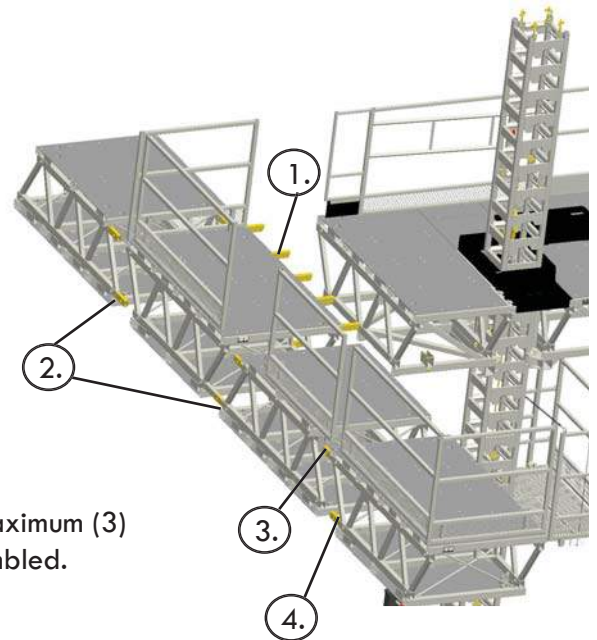
Extension bridges are created by alternatively placing 4' Bridges as follows:

Assembly

NEVER place hands or arms between bridges when connecting bridges.

A) Extending from the end of the ProSeries Power Unit:

1. Attach a 4' bridge to the end of a ProSeries Power Unit. (See cantilever section)
2. Flip the next 4' bridge upside down, so that the 4'x5' deck is facing up.
3. Install two (2) Pro bars into the top outrigger pockets, using the angle side in first, and pin the center hole leaving the flat side exposed with 1 hole visible.
4. Install two (2) Pro bars into the bottom outrigger pockets, using the flat side in first, and pin the center hole leaving the angle side exposed with 1 hole visible.

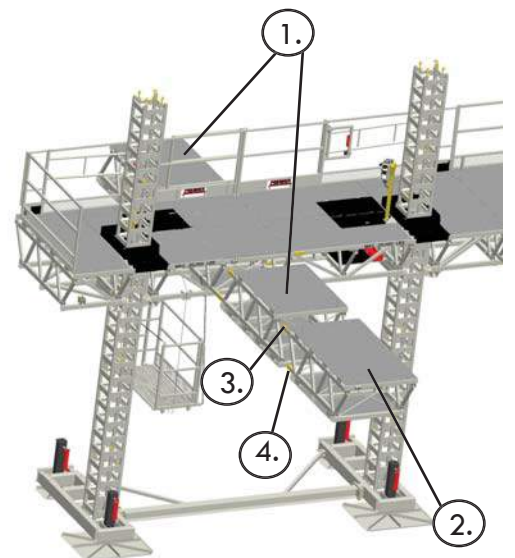


Continue to assemble the extension bridges as described until the maximum (3) forward extension and (2) for counter balance at the rear are assembled.

B) Extending from the front of the ProSeries Power Unit:

1. Attach a 4' bridge upside down, so that the 4'x5' deck is facing up, to the middle of a ProSeries Power Unit. (See cantilever section)
2. Flip the next 4' bridge right side up, so that the 4'x7' deck is facing up.
3. Install two (2) Pro bars into the top outrigger pockets, using the angle side in first, and pin the center hole leaving the flat side exposed with 1 hole visible
4. Install two (2) Pro bars into the bottom outrigger pockets, using the angle side in first, and pin the center hole leaving the flat side exposed with 1 hole visible.

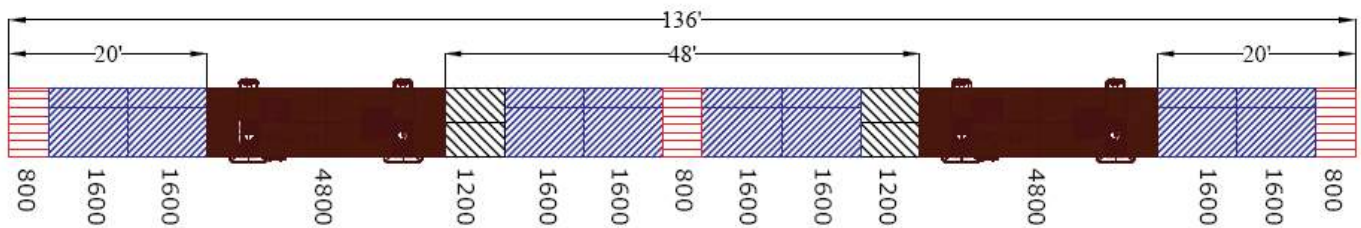
Continue to assemble the extension bridges as described until the maximum (3) forward extension and (2) for counter balance at the rear are assembled.



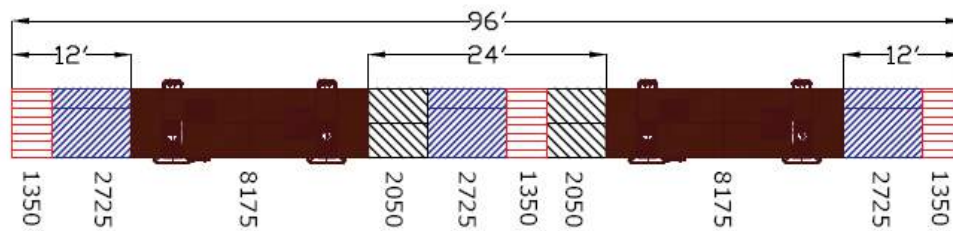
BEARING MODE LOAD CHART

Examples of typical setups. Weight in pounds and rounded down for added safety.

Ex. #1



Ex. #2



Load Calculation:

To calculate the load rating on your setup, use the following calculation. Note: your setup may be different and load ratings will change based on configuration being used.

$$((\text{Max. unit load} - \text{bridge weight}) / \text{total linear feet}) \times \text{bridge length} = \text{Load Rating}$$

KEY		
4' bridge	6' bridge	8' bridge

Using Example #2, the load rating will be calculated as follows:

Step 1: Calculate the max. unit load. In example #2 there are 2 power units, so the max. unit load will be 2 x 20,000 totaling 40,000.

Step 2: Calculate the total bridge weight. Example #2 has (2) 4' bridges, (4) 6' bridges, (5) 8' bridges.

$$4' \text{ bridge: } 3 \times 675 = 2,025$$

$$6' \text{ bridge: } 2 \times 965 = 1,930$$

$$8' \text{ bridge: } 3 \times 1,100 = 3,300$$

$$\text{Total Bridge Weight} = 7,255$$

Step 3: Calculate the length of the setup. Total linear feet in example #2 is 96.

Now plug this information into the formula above.

$$((\text{Max. unit load (40,000)} - \text{bridge weight (7,255)} / \text{total linear feet (96)}) \times \text{bridge length} = \text{load rating}$$

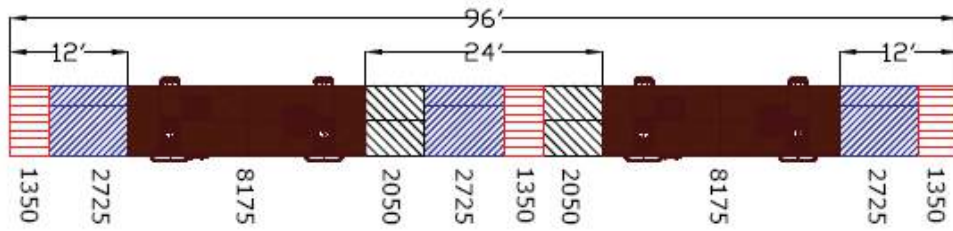
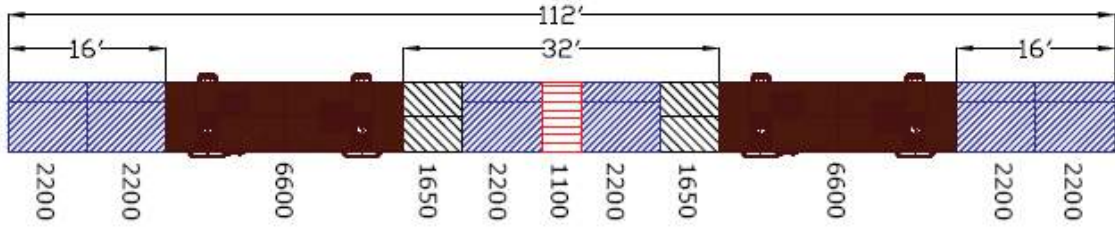
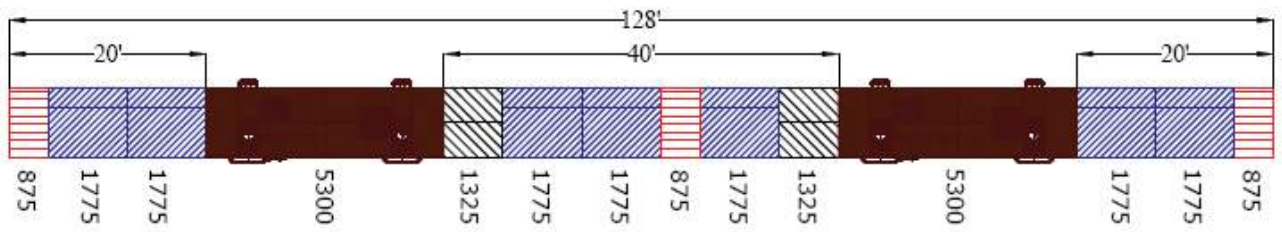
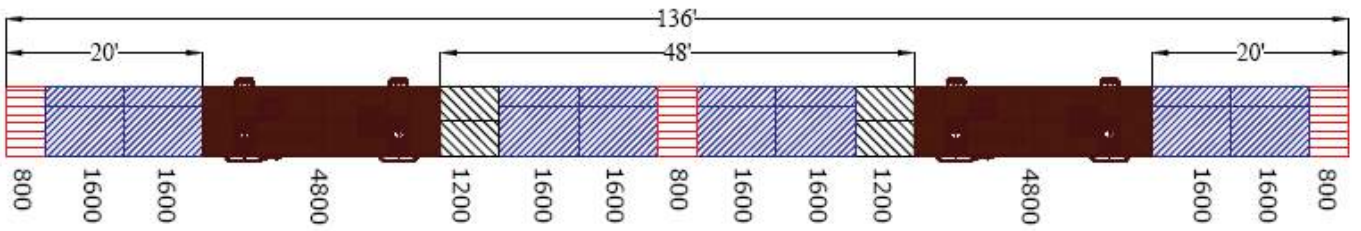
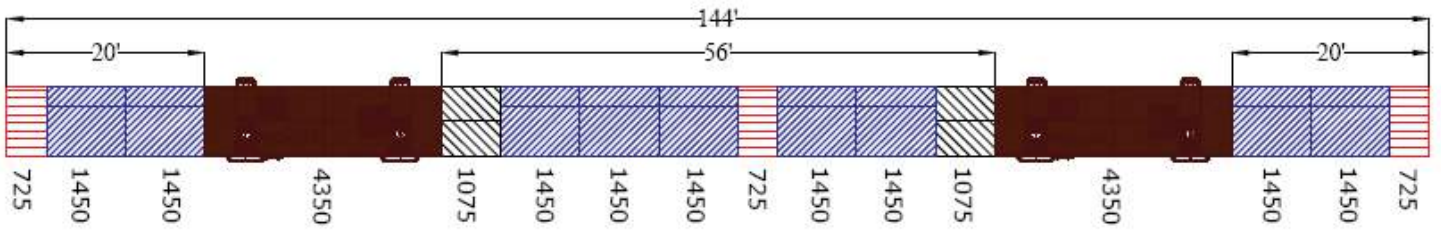
$$\text{Subtract } 40,000 - 7,255 = 32,745. \text{ Divide } 32,745 \text{ by } 96 = 341.09$$

Now take 341.09 and multiply by a bridge length to figure a section load rating.

$$4 \times 341.09 = 1,364.36$$

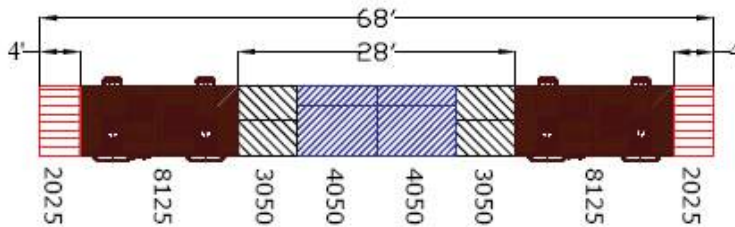
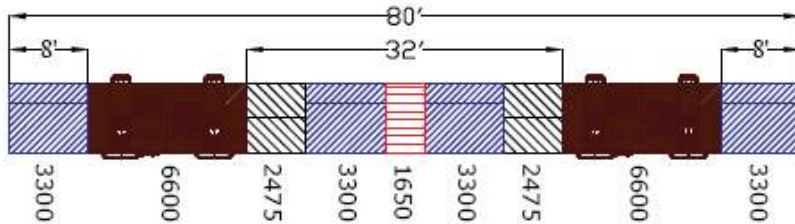
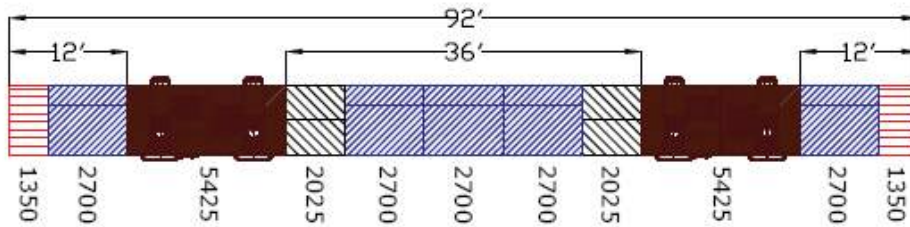
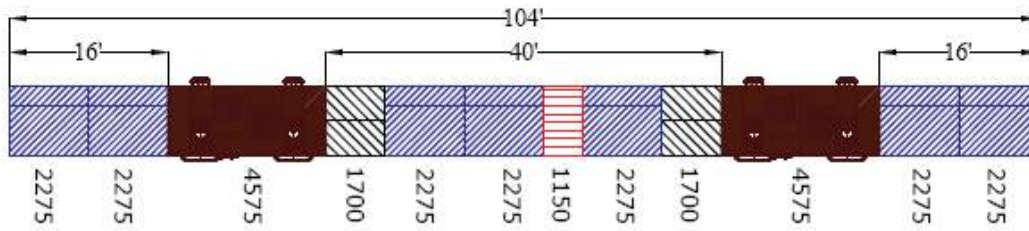
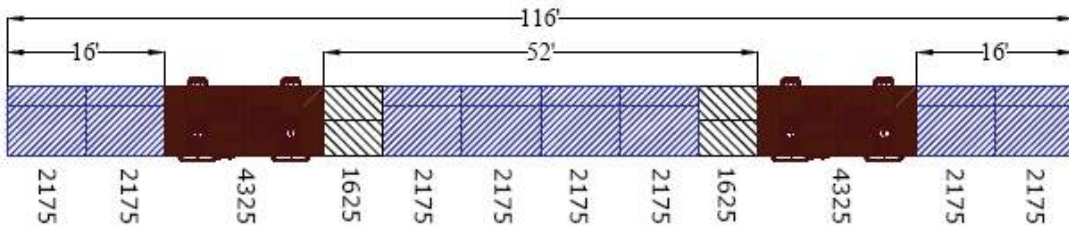
A 4' bridge in this example would have a load rating of 1,364.36.

BEARING MODE LOAD CHART



KEY		
4' bridge	6' bridge	8' bridge

BEARING MODE LOAD CHART

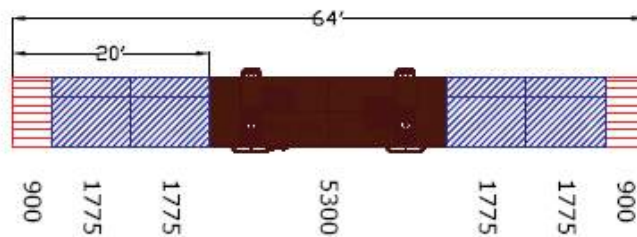


KEY		
4' bridge	6' bridge	8' bridge

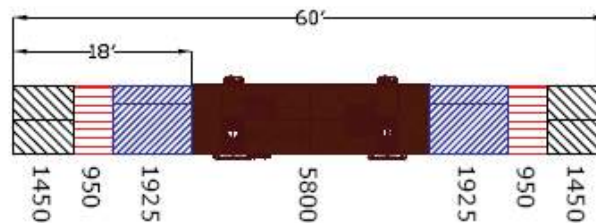
CANTILEVER MODE LOAD CHART

Examples of typical setups. Weight in pounds and rounded down for added safety.

Ex. #1



Ex. #2



KEY		
4' bridge	6' bridge	8' bridge

Load Calculation:

To calculate the load rating on your setup, use the following calculation: Note: your setup may be different and load ratings will change based on configuration being used.

$$((\text{Max. unit load} - \text{bridge weight}) / \text{total linear feet}) \times \text{bridge length} = \text{Load Rating}$$

Using Example #2, the load rating will be calculated as follows:

Step 1: Calculate the max. unit load. In example #2 there is 1 ProSeries Power Unit, so the max. unit load will be 20,000.

Step 2: Calculate the total bridge weight. Example #2 has (2) 4' bridges, (2) 6' bridges, (2) 8' bridges.

$$4' \text{ bridge: } 2 \times 675 = 1,350$$

$$6' \text{ bridge: } 2 \times 965 = 1,930$$

$$8' \text{ bridge: } 2 \times 1,100 = 2,200$$

$$\text{Total Bridge Weight} = 5,480$$

Step 3: Calculate the length of the setup. Total linear feet in example #2 is 60.

Now plug this information into the formula above.

$$((\text{Max. unit load}(20,000) - \text{bridge weight}(5,480) / \text{total linear feet}(60)) \times \text{bridge length} = \text{load rating}$$

$$\text{Subtract } 20,000 - 5,480 = 14,520. \text{ Divide } 14,520 \text{ by } 60 = 242$$

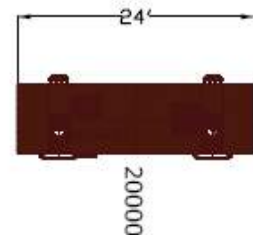
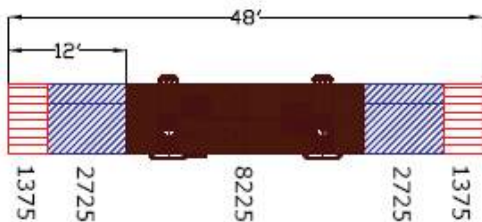
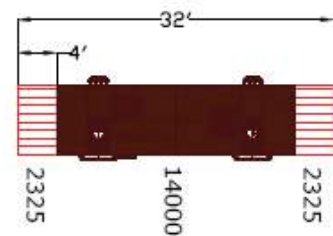
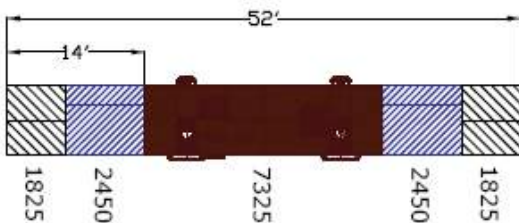
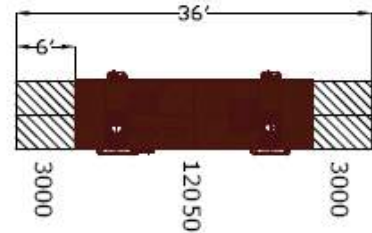
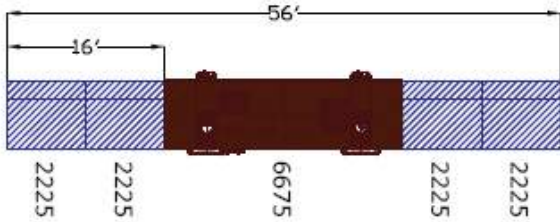
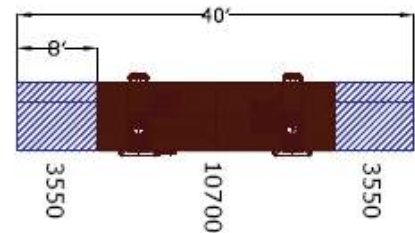
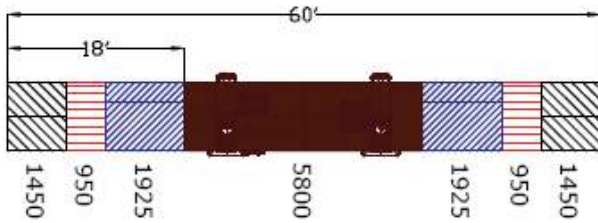
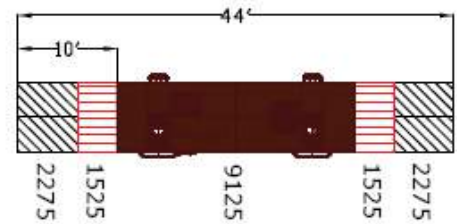
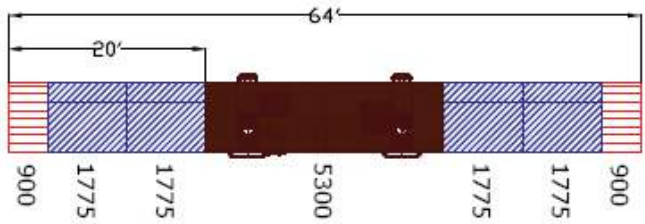
Now take 242 and multiply by a section length to figure a bridge load rating.

$$4 \times 242 = 968$$

A 4' bridge in this example would have a load rating of 968.

CANTILEVER MODE LOAD CHART

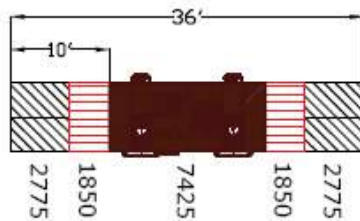
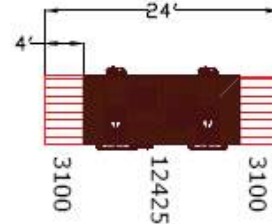
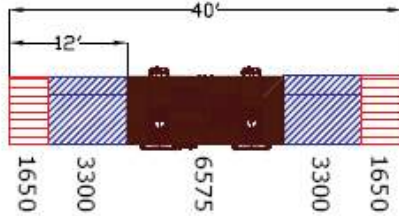
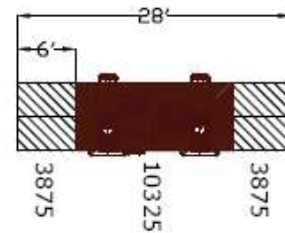
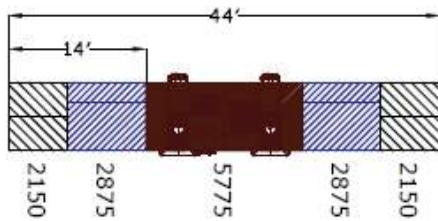
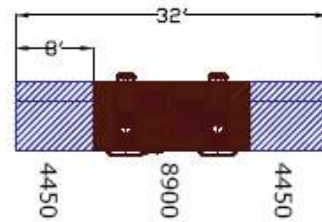
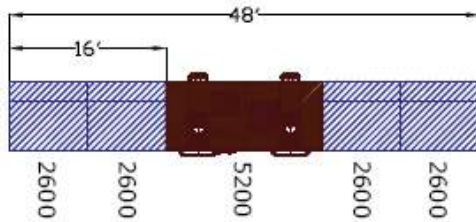
Examples of typical setups. Weight in pounds and rounded down for added safety. Distribute loads evenly.



KEY		
4' bridge	6' bridge	8' bridge

CANTILEVER MODE LOAD CHART

Examples of typical setups. Weight in pounds and rounded down for added safety. Distribute loads evenly.

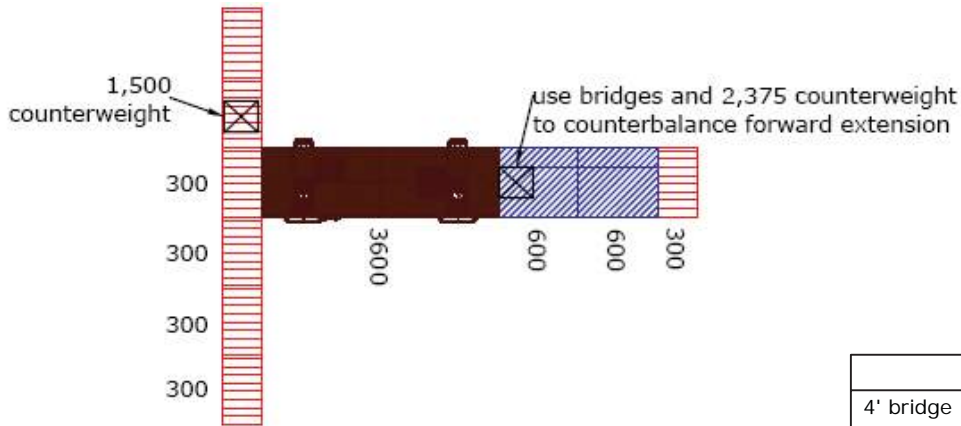


KEY		
4' bridge	6' bridge	8' bridge

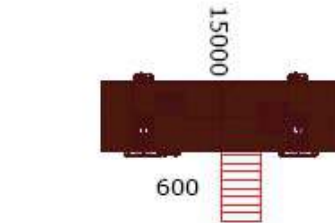
EXTENSION MODE LOAD CHART

Examples of typical setups. Weight in pounds and rounded down for added safety.

Ex. #1



Ex. #2



KEY		
4' bridge	6' bridge	8' bridge

Load Calculation:

Use load ratings given in above examples. Forward extensions must be counterbalanced with cantilever or bearing bridges on opposite side.

Using example #1 the counterbalance will be calculated as follows.

Step 1: calculate the total bridge weight. Example #1 has (6) 4' bridges.

$$4' \text{ bridge: } 6 \times 675 = 4,050$$

Step 2: Add counterweight, bridge weight, and load rating to find counterbalance required.

$$4' \text{ bridge: } 6 \times 675 = 4,050$$

$$\text{counterweight} = 1,500$$

$$\text{load rating} = 1,200 \text{ (sum of individual bridge load ratings, } 300+300+300+300)$$

$$\text{Total Extension Weight} = 6,750$$

Step 3: Find counter balance. The counter balance will be made up of bridges and counterweights. This will vary depending on the available bridging options. In this example the maximum amount of bridging will be used. If less bridging is available the counterweight will need to increase by the amount of the bridge weight.

$$8' \text{ bridge: } 2 \times 1,100 = 2,200$$

$$4' \text{ bridge: } 1 \times 675 = 675$$

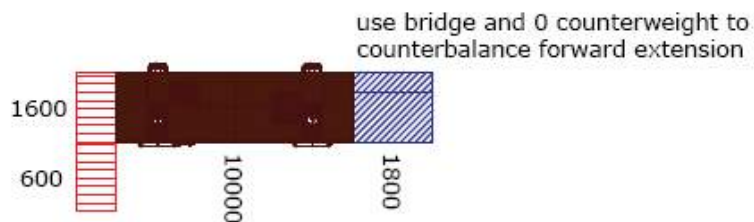
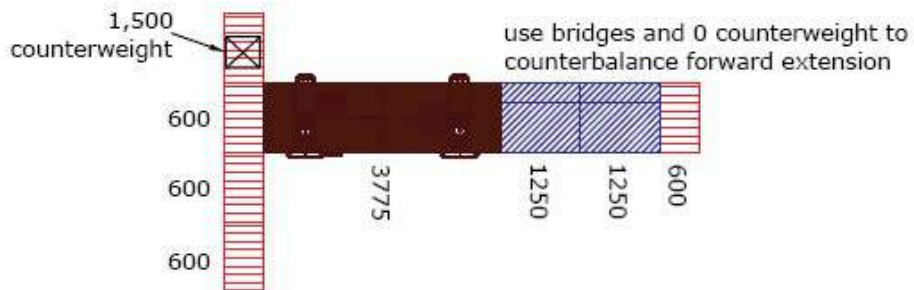
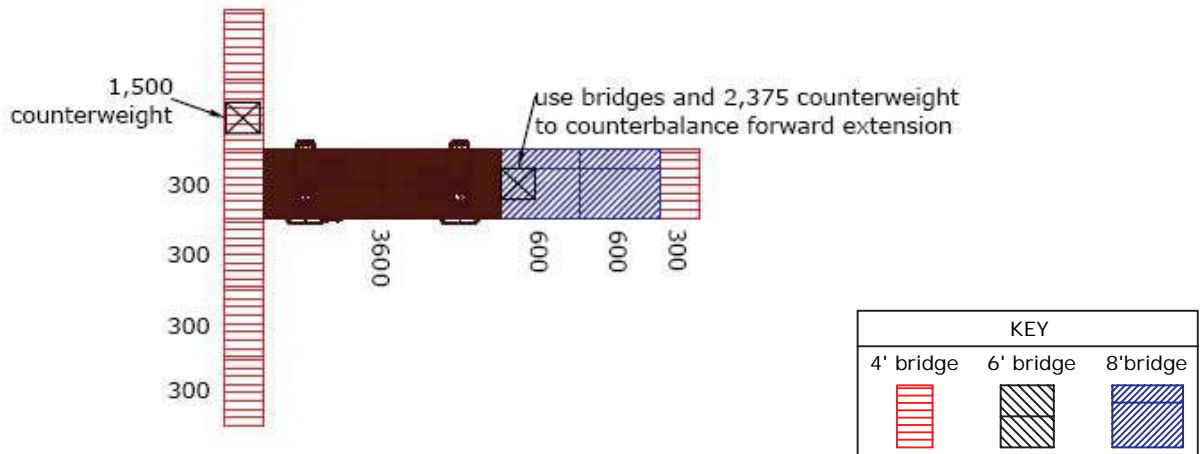
$$\text{load rating} = 1,500 \text{ (sum of individual bridge load ratings, } 600+600+300)$$

$$\text{counterweight} = 2,375$$

$$\text{Total Counter Balance} = 6,750$$

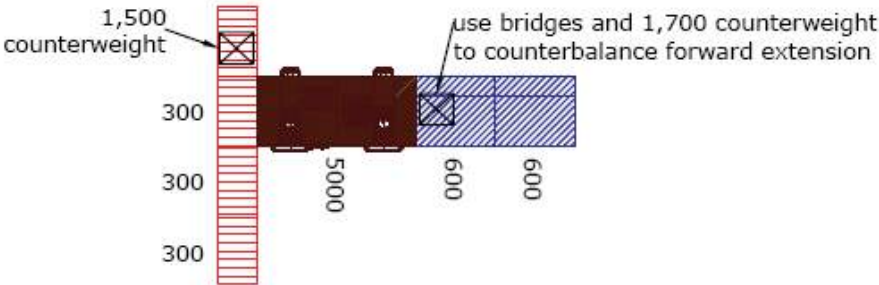
EXTENSION MODE LOAD CHART




Examples of typical setups. Weight in pounds and rounded down for added safety.

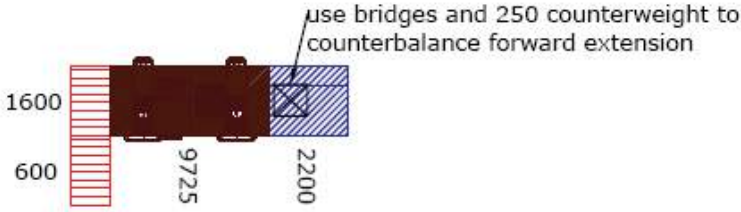


EXTENSION MODE LOAD CHART

Examples of typical setups. Weight in pounds and rounded down for added safety.



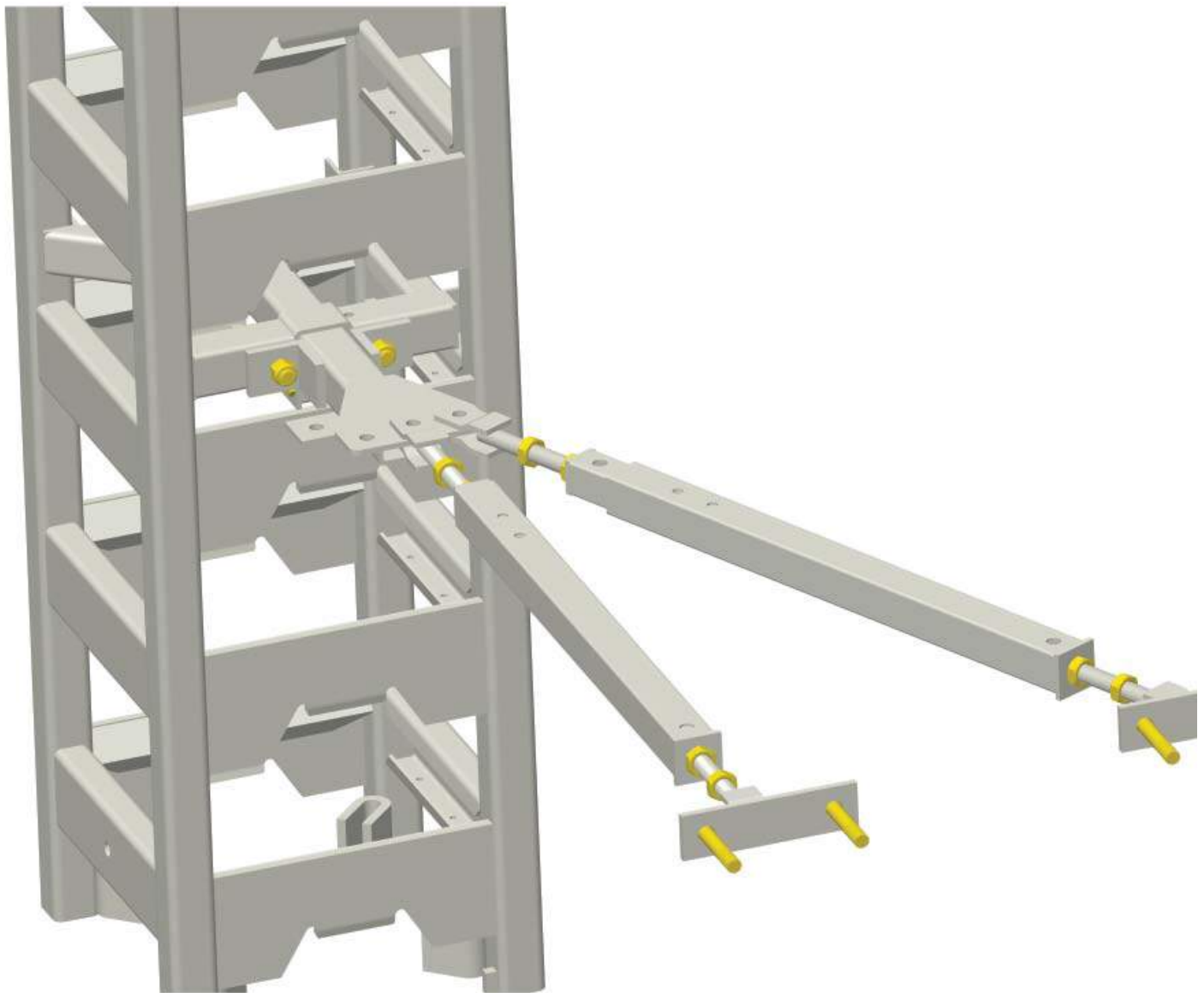
KEY		
4' bridge	6' bridge	8' bridge
		



CHAPTER 8

TYING THE PLATFORM

- Wall Tie Schedule
- Wall Tie Installation Procedures
- Stiff Arm Extensions
- Floor Mounts
- Anchors



Wall Tie Schedule

ProSeries Power Unit Height	Standard set up (2 or 4 planks) Forward of the ProSeries Power Unit	Set up with hoist, weather protection, forward extension or 5 to 8 planks
0-35'	Free Standing	Not Free Standing
36'-250''	Every 20' (1)	Every 10' (2)

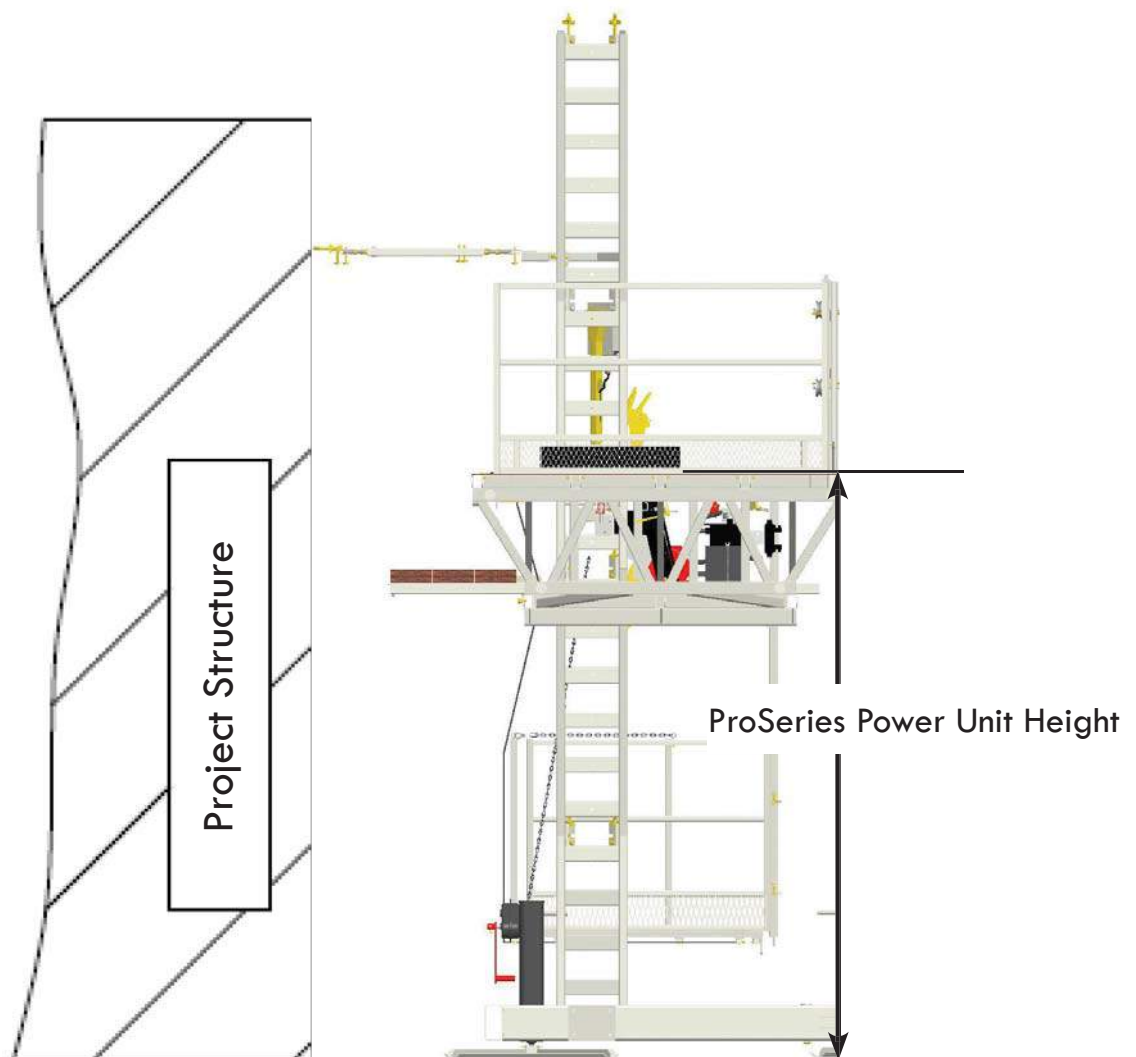
(1) The wall tie can be 30' if towers are pre installed to top of building.

(2) The wall tie can be 20' if towers are pre installed to top of building

WARNING!

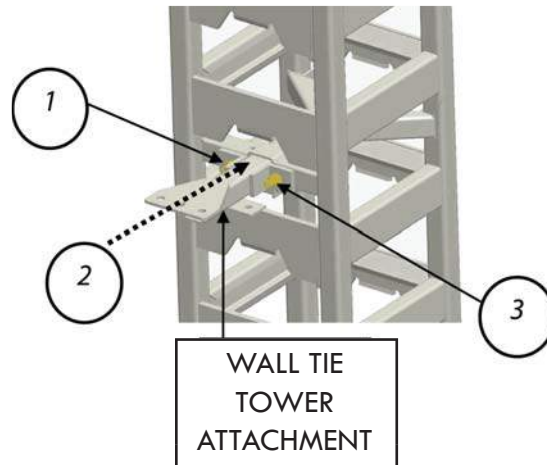
Do not use the ProSeries Power Unit when wind speed exceeds 35 miles/hour or when wind speed exceeds 20 miles/hour when using weather protection.

During pre installation or dismantle of wall ties all bridging must be removed.

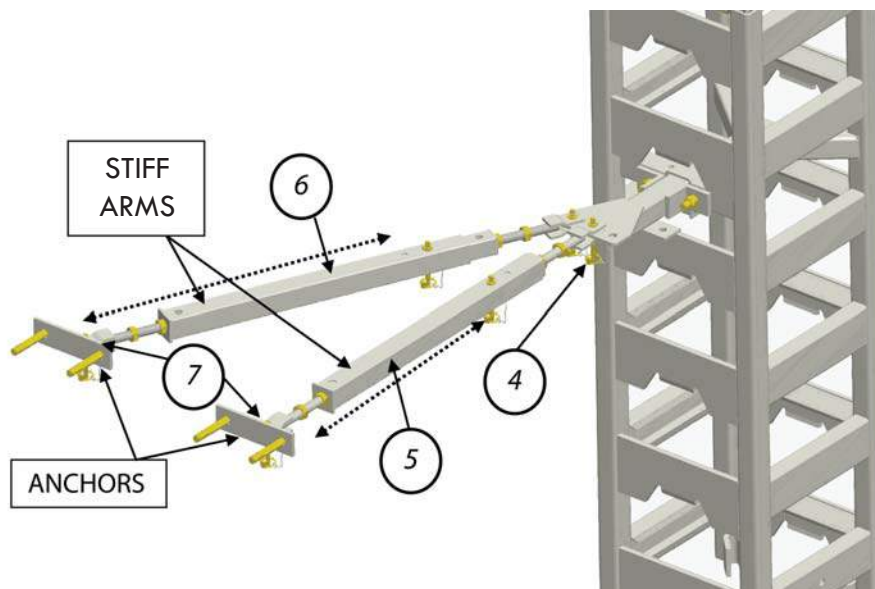


WALL TIE INSTALLATION PROCEDURES

1. Loosen bolts on the wall tie tower attachment. Separate the wall tie tower attachment. (This enables you to easily fit it into the tower).
2. Slide the wall tie tower attachment assembly into the tower diagonally, making sure to install the tower attachment as close as possible to the upper rung to avoid interference with feet while climbing the tower. (Reassemble the wall tie tower attachment).
3. Tighten the bolts on the wall tie tower attachment until the attachment holds the tower firmly.

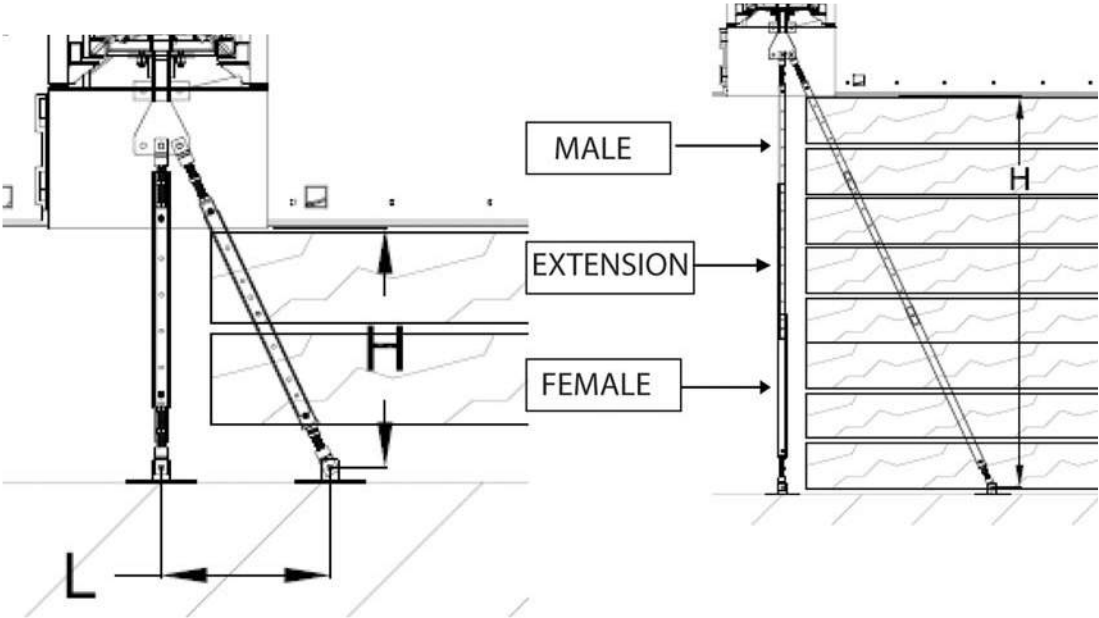


4. To attach the stiff arms to the wall tie tower attachment, use clevis pins and hitch pin clips.
5. Attach the straight stiff arm to the structure, ensuring proper distance between tower and the finished wall. This will also help with keeping towers plumb to the finished wall.
6. Attach next stiff arm to either side of the straight stiff arm to create a 25° angle. The stiff arms can be placed on either side of the straight stiff arm. The stiff arm creating the 25° angle must be placed in the same location on both towers. **BOTH ON THE INSIDE OR BOTH ON THE OUTSIDE!**
7. Pin the stiff arms to the anchors and adjust the length using sliding tube and threaded rod/nuts until both towers are perfectly vertical on front (plumb) and side axis (parallel with other tower and straight).



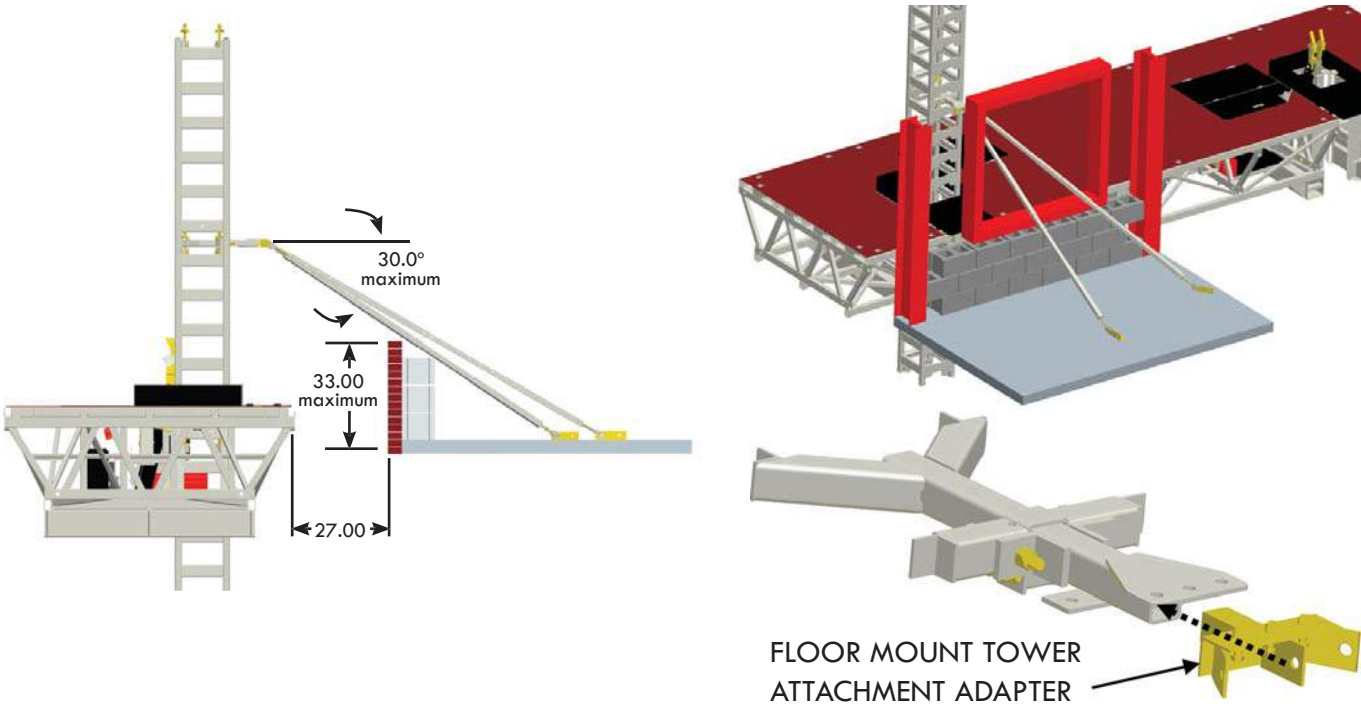
STIFF ARM EXTENSIONS

The typical male to female adjustable stiff arms can reach distances between 28" and 88" (with stiff arm extension). For distances over 88" contact PREMIER.



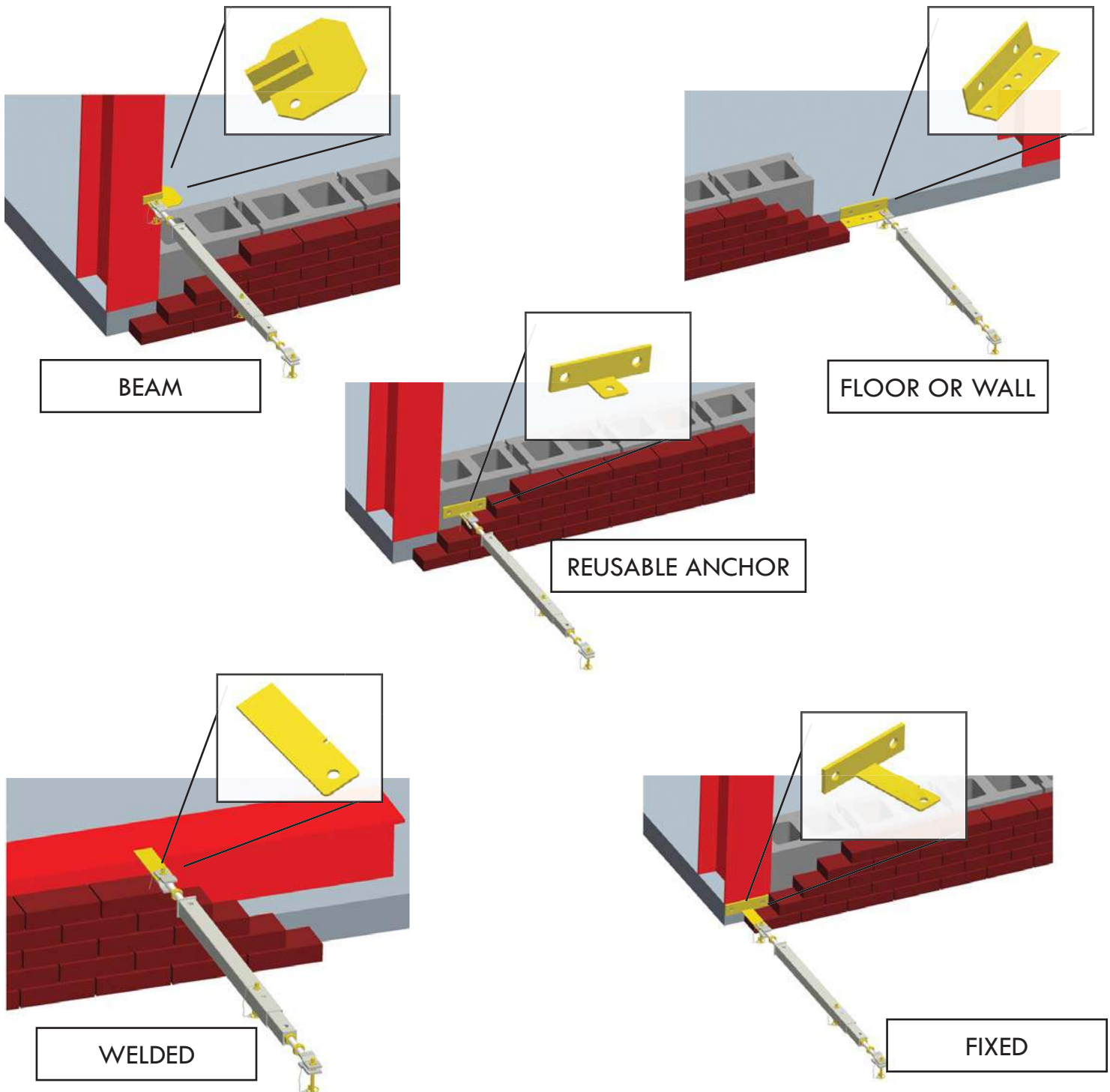
Floor Mounts

Angle brackets may be required for installing stiff arms through window openings. Floor or wall type anchors will need to be used for this type of application with the floor mount tower bracket adapter. Also note that the maximum allowable angle between the floor and tower rungs is 30 degrees.



ANCHORS

Before attaching towers to the building using the wall tie system, it will be necessary to install anchors to a solid building structure. Concrete slabs, columns, steel beams, relief angles and other structural members can be used provided that a 3,000 lb tension/compression and 1,000 lb shear force can be applied. Use 1/2" x 6" fasteners when tying the anchors to the building structure. There are 5 types of anchors you can use depending on the building structure.



CHAPTER 9

CHECK LISTS

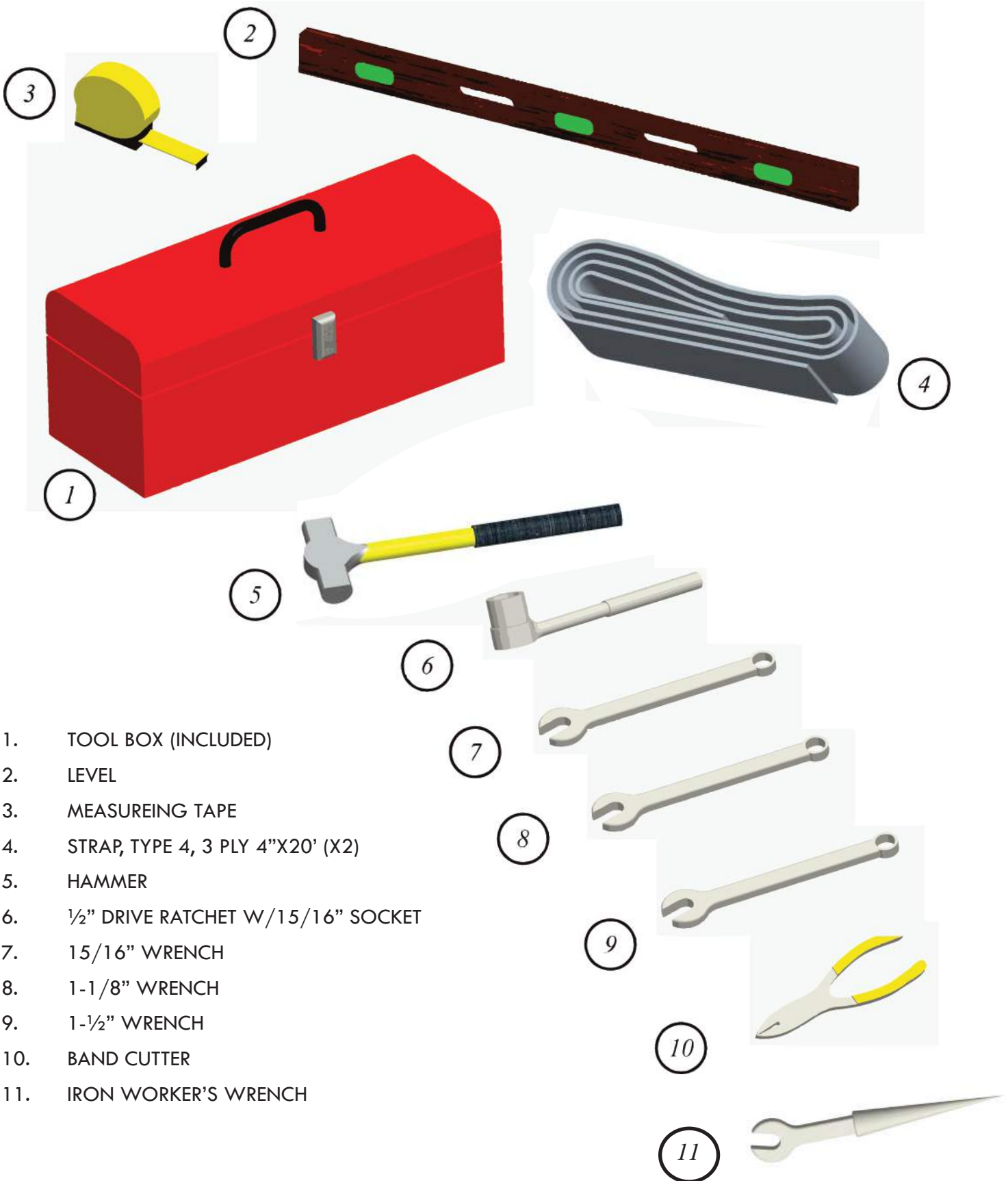
Job Equipment Check List

Miscellaneous		
	6' Top Outrigger	
	8' Bottom Outrigger	
	10' Long Outrigger	
	Cross Box	
	Plank Safety Support	
	Mason Guard Rail	
	Outrigger/Guard Rail Adaptor	
	Weather Protection	

Wall Tie Accessories		
	Adjustable Anchor Male	
	Adjustable Anchor Female	
	Reusable Anchor	
	Welded Anchor	
	Fixed Anchor (3 to 12")	
	Beam Clamp Anchor	
	Wall Tie Tower Attachment	
	Stiff Arm	
	Stiff Arm Extension	
	Angle Bracket	

Major Components		
	ProSeries Power Unit	
	4' Bridge	
	6' Bridge	
	8' Bridge	
	Hoist	
	Tower	

RECOMMENDED TOOLS



1. TOOL BOX (INCLUDED)
2. LEVEL
3. MEASUREING TAPE
4. STRAP, TYPE 4, 3 PLY 4"X20' (X2)
5. HAMMER
6. 1/2" DRIVE RATCHET W/15/16" SOCKET
7. 15/16" WRENCH
8. 1-1/8" WRENCH
9. 1-1/2" WRENCH
10. BAND CUTTER
11. IRON WORKER'S WRENCH

LAYOUT CHECK LIST

Requestor		Reference Number	
Date Requested		Status	
Date Required		Structure Plan	
Customer Name		Floor Plan	
Project Name		Elevation Plan	

Project Dimensions (Attach Drawing if Possible)		
Side	Length	Height
1		
2		
3		
4		
5		
6		

Equipment to be Used	
Side	Equipment
1	
2	
3	
4	
5	
6	

Notes	

MAINTENANCE LOG

Maintenance	Date	Operator

MAINTENANCE LOG

Maintenance	Date	Operator

MAINTENANCE LOG

Maintenance	Date	Operator

ProSeries

**OPERATOR'S
MANUAL**