



**MP-Series**



2019 – REV 0

# OWNER'S MANUAL

## RollaStep MP-Series

THIS PRODUCT AND/OR IT'S COMPONENTS MAYBE COVERED BY ONE OR MORE PATENTS. SEE [WWW.ERECTASTEP.COM/PATENTS](http://WWW.ERECTASTEP.COM/PATENTS)



219 Safety Avenue / Andrews, SC 29510 / Ph 888 948 0005 / Fx 843 264 8584

# RollaStep MP-Series



Thank you for purchasing a RollaStep MP-Series Unit

Your new RollaStep MP-Series unit has been manufactured using the latest technologies, along with only the highest quality materials to ensure dependable service for years to come.

Please take care, to follow all guidelines and installation instructions to ensure your stair unit performs as designed.

For further questions or concerns, please contact Customer Support at 888.875.1839

Thanks again for choosing RollaStep!

# RollaStep MP-Series

## IMPORTANT



Read carefully and understand all instructions before starting installation. Adhere to all instructions in manual.

**FAILURE TO FOLLOW ALL INSTRUCTIONS MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.**



**DANGER!** Electrical hazard; Unit is conductive.



Ensure that all casters contact the ground. Shim casters as needed.



**CAUTION!** Lock casters prior to use.



Equipment should not be altered or modified from its original design without consultation with the manufacturer.

Equipment which is damaged or becomes damaged during use, handling, or shipping should be set aside and not used.



Unit is designed for a maximum capacity of 500 lbs.



**WARNING!** This product can expose you to chemicals including cadmium, which is known to the State of California to cause cancer, and/or birth defect or other reproductive harm. For more information go to [www.P65warnings.ca.gov](http://www.P65warnings.ca.gov)

# RollaStep MP-Series

## IMPORTANT

All bolts to be tightened per AISC.

### TORQUE DATA:

All ½” bolted connections = 678 in-lbs. (56 ft-lbs.) lubricated or 904 in-lbs. (75 ft-lbs.) dry +/-10%.

Use of impact wrenches NOT sanctioned.

Use of Anti-seize compound on hardware recommended.



**WARNING!** After a usage period of 60-90 days, check all fasteners to ensure connections are secure. Periodic inspection is recommended to insure all fasteners are secured. **FAILURE TO SECURE ALL FASTENERS MAY RESULT IN DEATH OR SERIOUS PERSONAL INJURY.**



**WARNING!** Handrail backing plates must be used where designated in the instruction manual. **FAILURE TO USE HANDRAIL BACKING PLATES WHERE DESIGNATED MAY CAUSE EQUIPMENT TO FAIL AND MAY RESULT IN DEATH OR SERIOUS PERSONAL INJURY.**



**CAUTION!** Handrails/ handrail sockets must be secured prior to use.

# RollaStep MP-Series



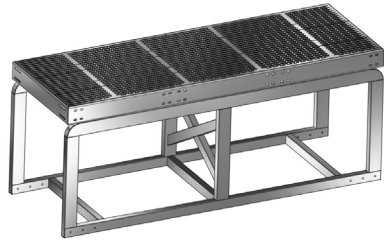
## INTRODUCTION:

The MP-Series is a highly mobile platform designed to bring the user to the level of the work with an unparalleled level of confidence and safety. The powder coated handrails, full size 45 degree rise stair stringer, and standard width and depth steps meet OSHA specifications for mobile platforms.

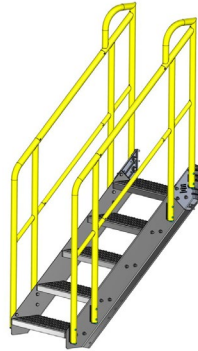
The MP Series' lightweight aluminum construction and 360 degree swiveling casters allow precise positioning and easy maneuvering by a single operator. Locking casters prevent both swivel and roll, while the soft no-flat tires roll easily over asphalt and gravel.

Optional removable handrails give the unit unparalleled versatility and easy access to work of the end of the unit or down either side. Each handrail slides securely into and out of its socket bracket without tools, allowing operators to reconfigure the platform in the field.

# COMPONENTS



MP FRAME/PLATFORM



MP STAIR UNIT



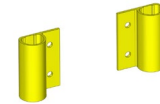
PLATFORM HANDRAIL



CASTER BRACKET



STAIR SUPPORT BRACE



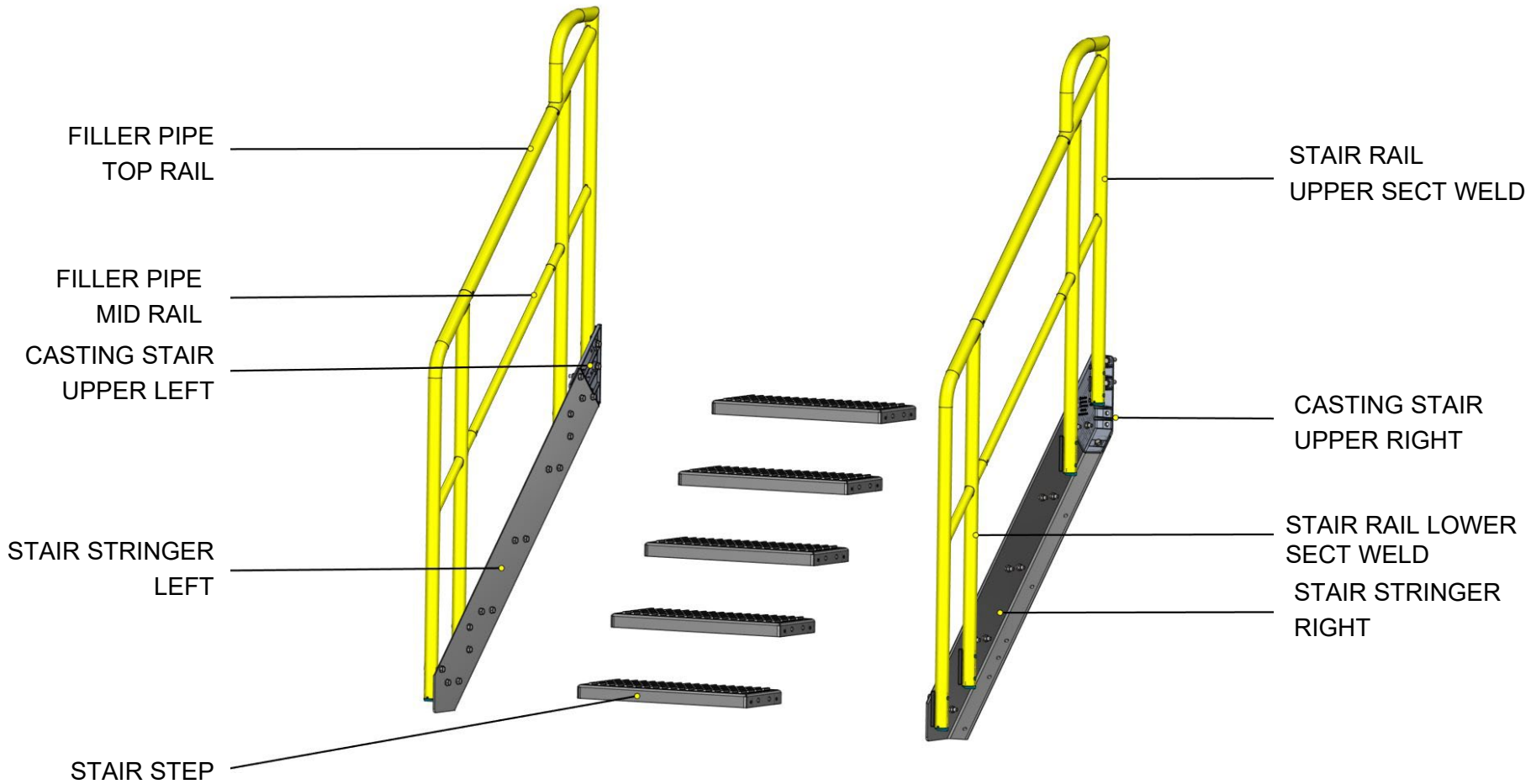
OPTIONAL REMOVABLE  
HANDRAIL SOCKET KIT



SWIVEL CASTERS

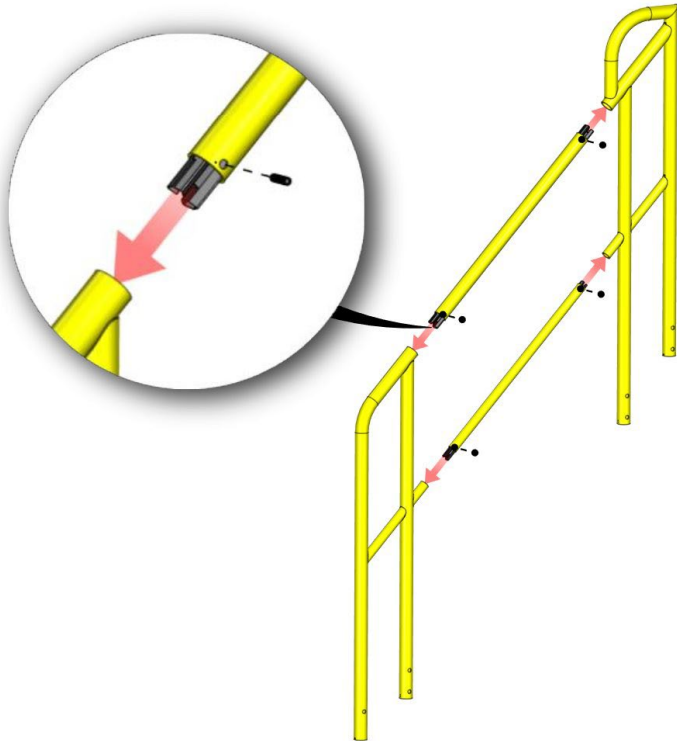
- Min 2 people are recommended for assembly.

# STAIR COMPONENTS

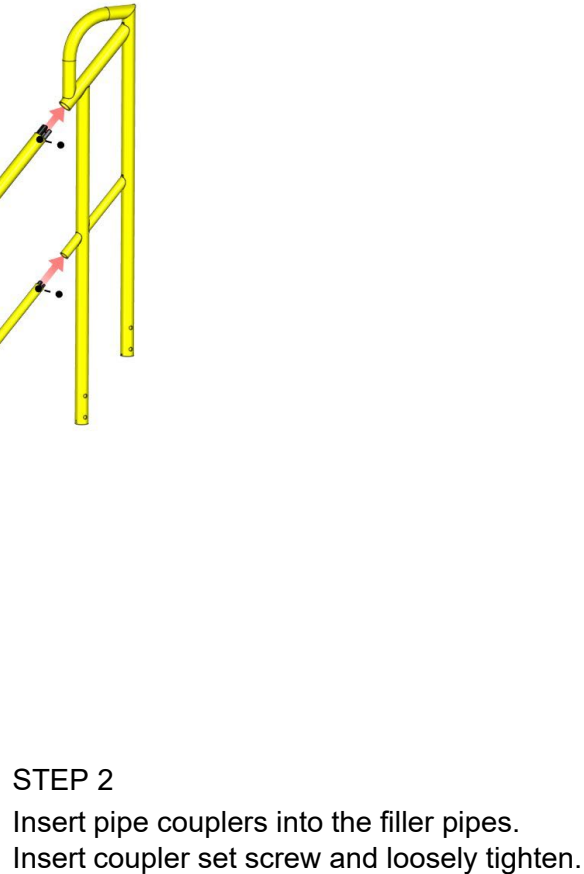


Note: Some components may ship pre-assembled.

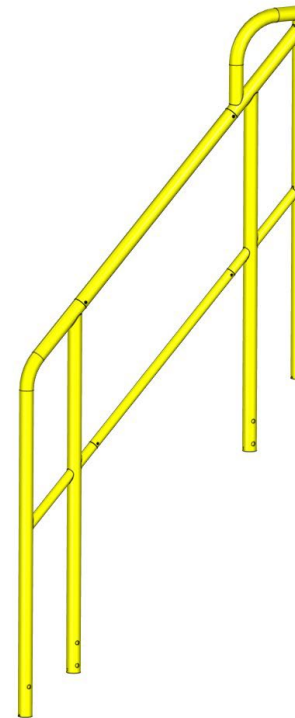
# STAIR RAIL INSTRUCTIONS



**STEP 1**  
Orient components as shown.



**STEP 2**  
Insert pipe couplers into the filler pipes.  
Insert coupler set screw and loosely tighten.



**STEP 3**  
Slide all components together, then  
securely tighten coupler set screw.

**Note:** Some components may ship pre-assembled.

# STAIR STRINGER INSTRUCTIONS

## STEP 1

Orient components as shown.

## STEP 2

Insert and securely tighten hardware (see next sheet for detailed views).

**WARNING!** Do not use impact wrench. May cause damage to unit which could result in serious personal injury or death. See torque data.

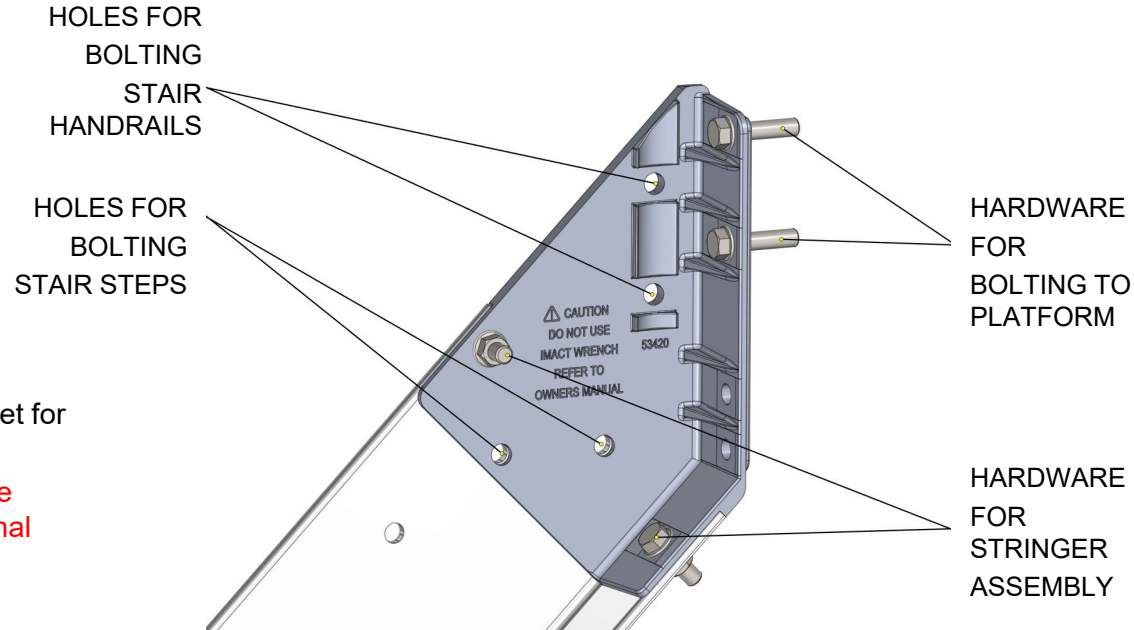
### NOTICE:

Some holes are used to connect both casting to stringer as well as connect stair steps and/or handrails.

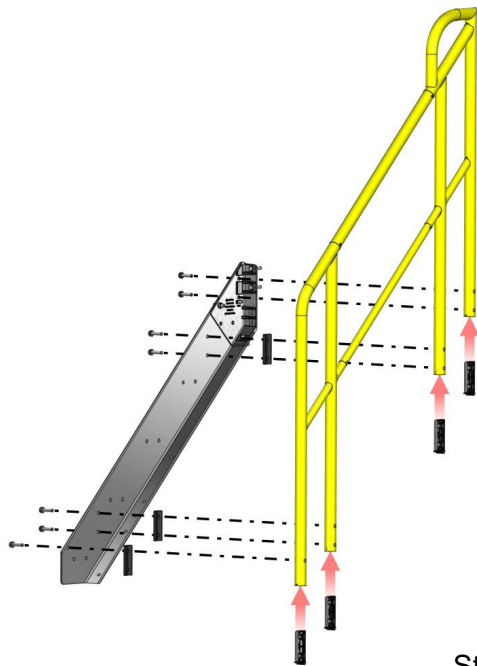
Hardware to bolt to platform must be inserted prior to installing stair handrails.

**WARNING!** Do not use impact wrench. May cause damage to unit which could result in serious personal injury or death. See torque data.

**Note:** Some components may ship pre-assembled.



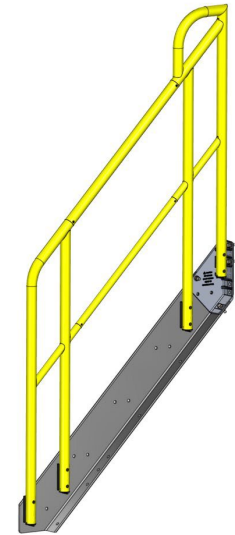
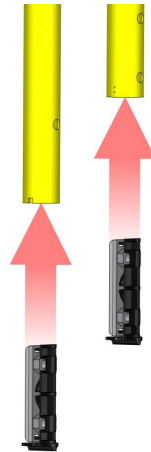
# STRINGER/STAIR RAIL INSTRUCTIONS



Some components may ship pre-assembled.

Stringer side of handrail

Steel side of insert face towards stringers



## STEP 1

Slide rail insert into stair handrails.

Orient steel side towards stringer.

(May require tape to hold in place while assembling).

## STEP 2

Position stair handrails on to stringer with handrail spacers (spacers only needed at stringer connection—castings have spacer incorporated).

## STEP 3

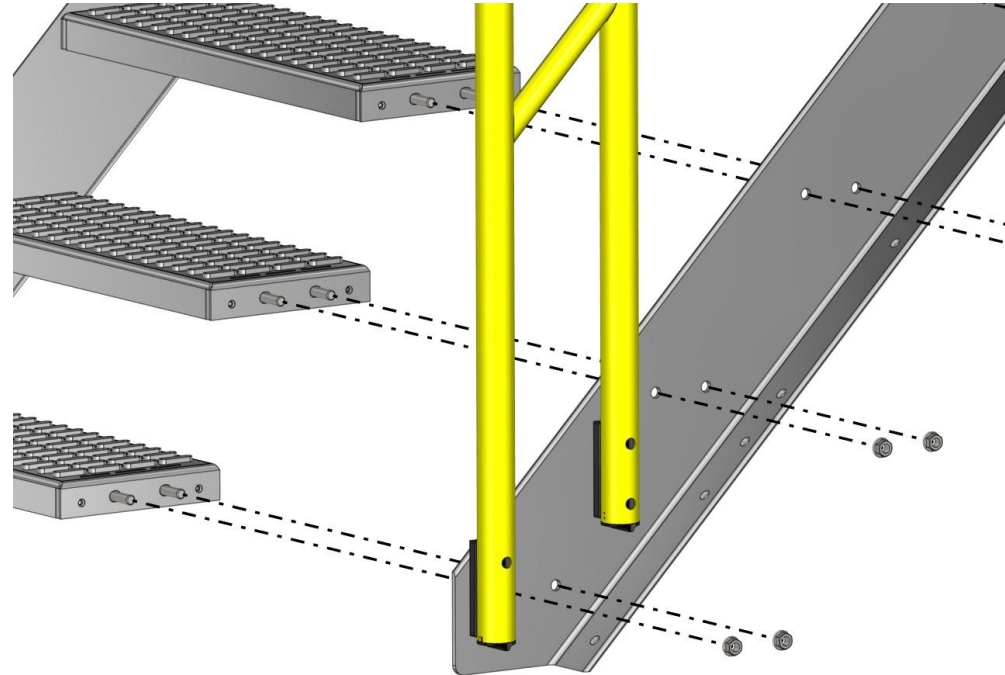
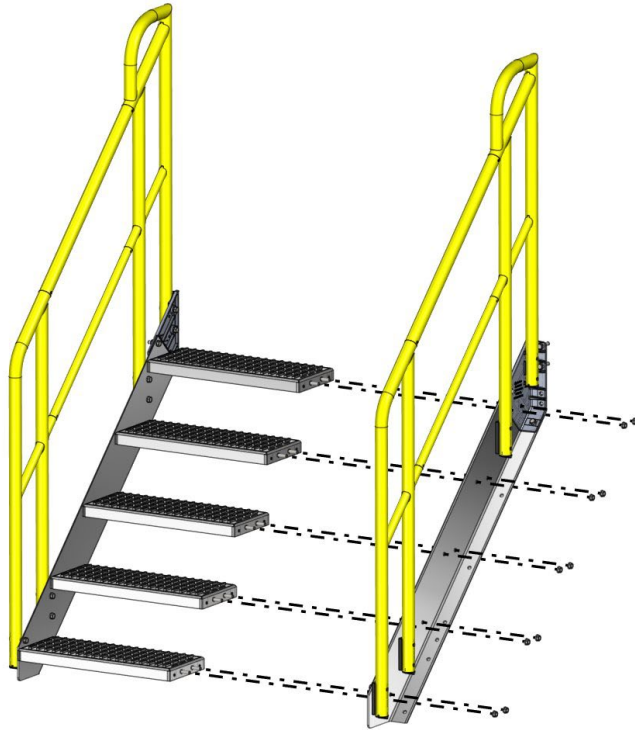
Insert hardware and tighten hardware.



**WARNING!** Do not use impact wrench. May cause damage to unit which could result in serious personal injury or death. See torque data.

Note: Some components may ship pre-assembled.

# STAIR STEP INSTRUCTIONS



## STEP 1

Orient left and right stringer assembly sections as shown and bolt in all steps.

## STEP 2

Securely tighten all step hardware.

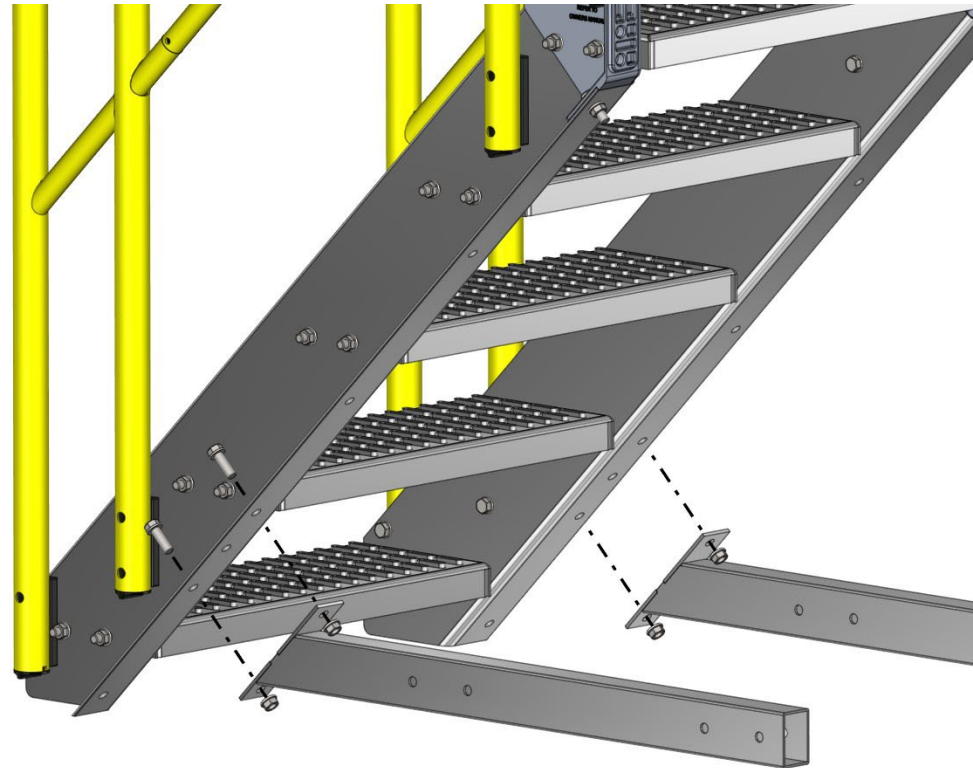


**WARNING!** Do not use impact wrench. May cause damage to unit which could result in serious personal injury or death. See torque data.

**Note:** Some components may ship pre-assembled.



# STAIR SUPPORT BRACE INSTRUCTIONS

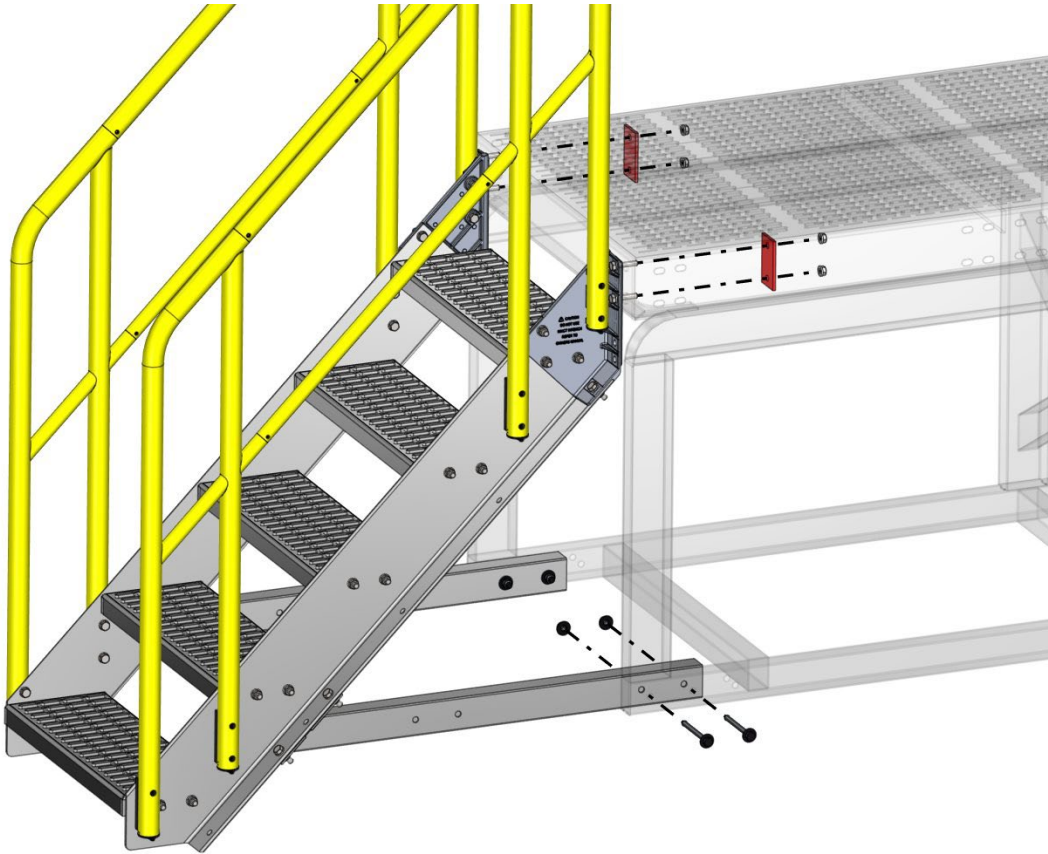


## STEP 1

Orient stair support braces as shown and bolt to stair stringer.

Leave hardware loose until stair unit is attached to MP frame.

# STAIR UNIT INSTRUCTIONS



## STEP 1

Orient stair unit against frame/platform as shown.

## STEP 2

Attach upper stairs to platform using backing plates as shown.

## STEP 3

Attach stair support braces to lower frame using  $\frac{1}{2}$ " x 5" bolt, nylock jam nut and washer.

## STEP 4

Securely tighten all step hardware.



**WARNING!** Do not use impact wrench. May cause damage to unit which could result in serious personal injury or death. See torque data.

# CASTER/CASTER BRACKET INSTRUCTIONS

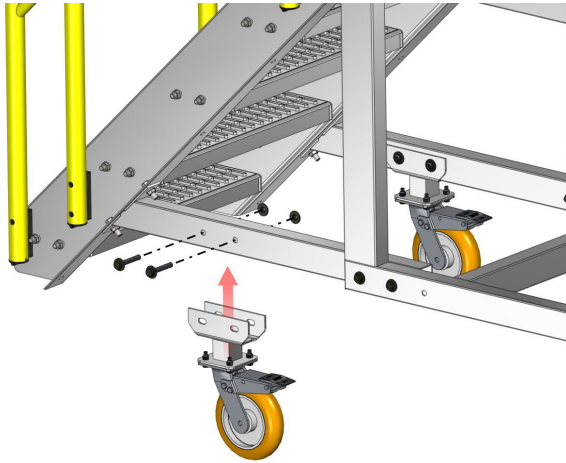


Fig 1

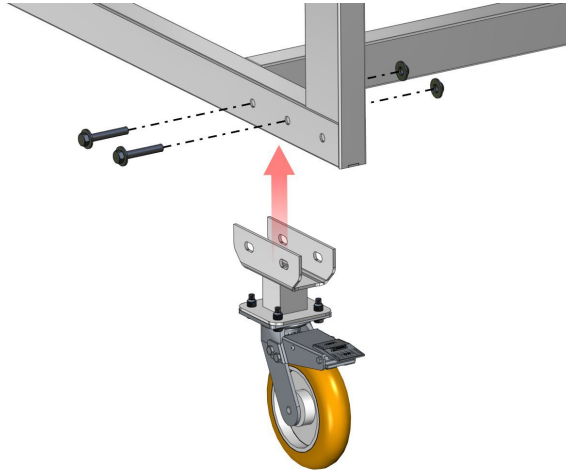


Fig 2

## STEP 1

Attach castor to castor bracket using 3/8" x 1 1/4" bolt, nylock nut and double flat washer.

## STEP 2

Attach castor to frame or stair support brace based on configuration using 1/2" x 3" bolt, nylock jam nut and flat washer.

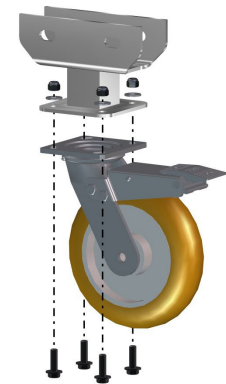
Note: Unit will require two castors attached to stair support brace and two castors attached to frame on the opposite end of unit (Fig 1 & 2).

## STEP 3

Once unit is level, tighten all hardware.

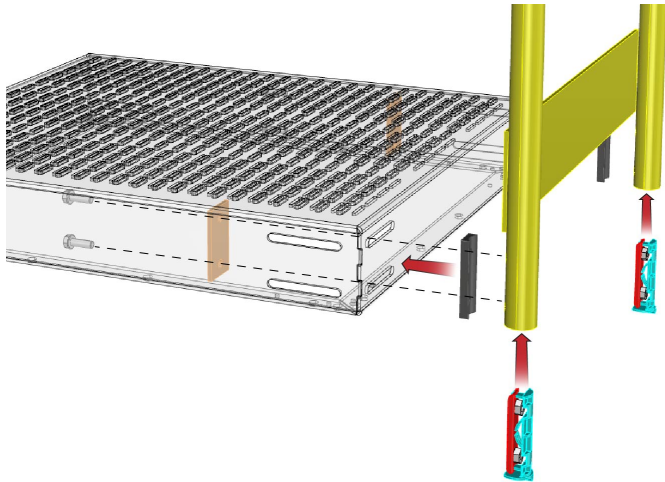
Shim castor to castor bracket as needed if unit is being used on uneven ground.

**WARNING!** Do not use impact wrench. May cause damage to unit which could result in serious personal injury or death. See torque data.



**IMPORTANT**  
LOCK WHEELS  
PRIOR TO USE.

# HANDRAIL TO PLATFORM INSTRUCTIONS



## STEP 1

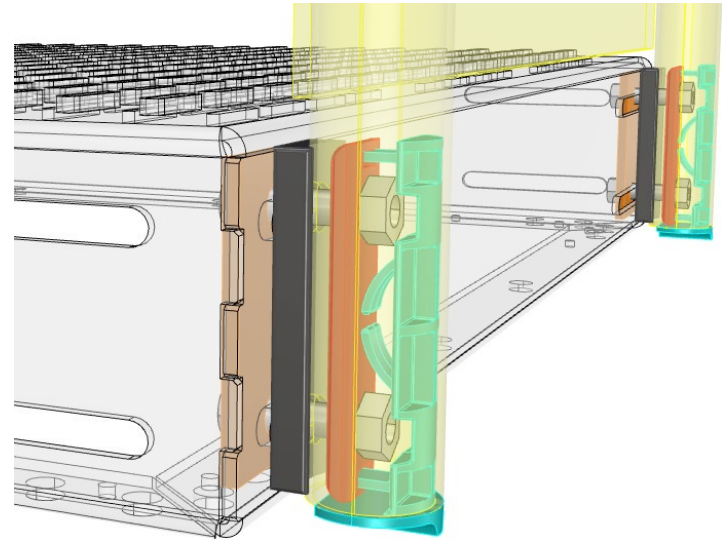
Slide rail insert into handrails. Orient steel side towards platform. May require tape to hold in place while assembling.

## STEP 2

Position handrails on to platform with backing plate inside as shown.

## STEP 3

Insert hardware and tighten hardware.



**NOTICE:** Metal piece should be oriented so that nuts are facing plastic.

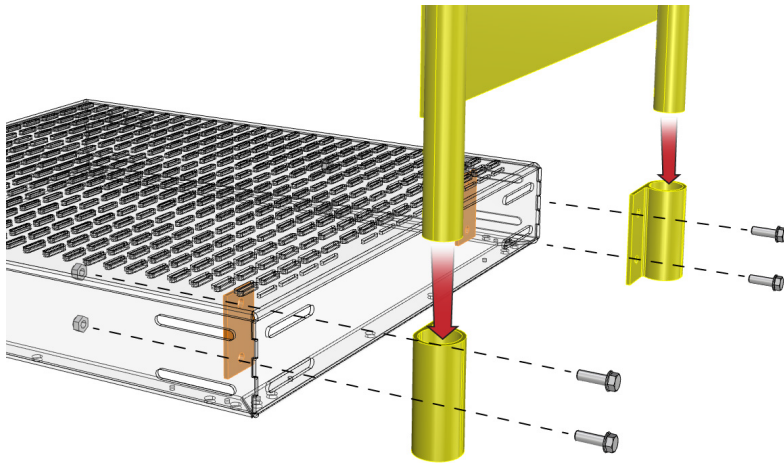


**WARNING!** Backing plate must be used at this connection. Failure to use backing plates may cause equipment to fail and may result in death or serious personal injury.



**WARNING!** Do not use impact wrench. May cause damage to unit which could result in serious personal injury or death. See torque data.

# OPTIONAL REMOVABLE HANDRAIL SOCKET INSTRUCTIONS



## STEP 1

Loosely attach handrail sockets using hardware and backing plates.

## STEP 2

Slide handrails into sockets for fit and alignment, then tighten hardware.

### NOTICE:

Sockets should be plumb and square to allow handrails to slide in and out.



**WARNING!** Backing plate must be used at this connection. Failure to use backing plates may cause equipment to fail and may result in death or serious personal injury.



**WARNING!** Do not use impact wrench. May cause damage to unit which could result in serious personal injury or death. See torque data.

# SYSTEM DESIGN

United States of America  
Department of Labor  
Occupational Safety & Health Administration

1910.29(a)  
“General requirements”.

1910.29(a)(1)  
“Application.” This section is intended to prescribe rules and requirements for the design, construction, and use of mobile work platforms (including ladder stands but not including serial ladders) and rolling (mobile) scaffolds (towers). This standard is promulgated to aid in providing for the safety of life, limb, and property, by establishing minimum standards for structural design requirements and for the use of mobile work platforms and towers.

1910.29(a)(2)  
“Working loads.”

1910.29(a)(2)(i)  
Work platforms and scaffolds shall be capable of carrying the design load under varying circumstances depending upon the conditions of use. Therefore, all parts and appurtenances necessary for their safe and efficient utilization must be integral parts of the design.

1910.29(a)(2)(ii)  
Specific design and construction requirements are not a part of this section because of the wide variety of materials and design possibilities. However, the design shall be such as to produce a mobile ladder stand or scaffold that will safely sustain the specified loads. The material selected shall be of sufficient strength to meet the test requirements and shall be protected against corrosion or deterioration.

1910.29(a)(2)(ii)(a)  
The design working load of ladder stands shall be calculated on the basis of one or more 200-pound<sup>[91.3g]</sup> persons together with 50 pounds<sup>[23kg]</sup> of equipment each.

1910.29(a)(2)(ii)(b)  
The design load of all scaffolds shall be calculated on the basis of:  
Light – Designed and constructed to carry a working load of 25 pounds per sq. ft. [11 kg].  
Medium – Designed and constructed to carry a working load of 50 pounds per sq. ft. [23 kg].  
Heavy – Designed and constructed to carry a working load of 75 pounds per sq. ft. [34 kg].  
All ladder stands and scaffolds shall be capable of supporting at least four times the design working load.

1910.29(a)(2)(iii)  
The materials used in mobile ladder stands and scaffolds shall be of standard manufacture and conform to standard specifications of strength, dimensions, and weights, and shall be selected to safely support the design working load.

1910.29(a)(2)(iv)  
Nails, bolts, or other fasteners used in the construction of ladders, scaffolds, and towers shall be of adequate size and in sufficient numbers at each connection to develop the designed strength of the unit. Nails shall be driven full length. (All nails should be immediately withdrawn from dismantled lumber.)

1910.29(a)(2)(v)  
All exposed surfaces shall be free from sharp edges, burrs or other safety hazards.

1910.29(a)(3)  
“Work levels.”

1910.29(a)(3)(i)  
The maximum work level height shall not exceed four (4) times the minimum or least base dimensions of any mobile ladder stand or scaffold. Where the basic mobile unit does not meet this requirement, suitable outrigger frames shall be employed to achieve

this least base dimension, or provisions shall be made to guy or brace the unit against tipping.

1910.29(a)(3)(ii)  
The maximum platform width for any work level shall not be less than 20 in [508 mm] for mobile scaffolds (towers). Ladder stands shall have a minimum step width of 16 in [406 mm].

1910.29(a)(3)(iii)  
The supporting structure for the work level shall be rigidly braced, using adequate cross bracing or diagonal bracing with rigid platforms at each work level.

1910.29(a)(3)(iv)  
The steps of ladder stands shall be fabricated from slip resistant treads.

1910.29(a)(3)(v)  
The work level platform of scaffolds (towers) shall be of wood, aluminum, or plywood planking, steel or expanded metal, for the full width of the scaffold, except for necessary openings. Work platforms shall be secured in place. All planking shall be 2-inch [51 mm] (nominal) scaffold grade minimum 1,500 f. [457 m] (stress grade) construction grade lumber or equivalent.

1910.29(a)(3)(vi)  
All scaffold work levels 10 feet [3048 mm] or higher above the ground or floor shall have a standard (4-inch [508 mm] nominal) toeboard.

1910.29(a)(3)(vii)  
All work levels 10 feet [3048 mm] or higher above the ground or floor shall have a guardrail of 2 [51 mm]- by 4-inch [102 mm] nominal or the equivalent installed no less than 36 inches [914 mm] or more than 42 inches [1067 mm] high, with a mid-rail, when required, of 1 [25 mm]- by 4-inch [102 mm] nominal lumber or equivalent.

1910.29(a)(3)(viii)  
A climbing ladder or stairway shall be provided for proper access and egress, and shall be affixed or built into the scaffold and so located that its use will not have a tendency to tip the scaffold. A landing platform shall be provided at intervals not to exceed 30 feet [9144 mm].

1910.29(a)(4)  
“Wheels or casters.”

1910.29(a)(4)(i)  
Wheels or casters shall be properly designed for strength and dimensions to support four (4) times the design working load.

1910.29(a)(4)(ii)  
All scaffold casters shall be provided with a positive wheel and/or swivel lock to prevent movement. Ladder stands shall have at least two (2) of the four (4) casters and shall be of the of the swivel type.

1910.29(a)(4)(iii)  
Where leveling of the elevated work platform is required, screw jacks or other suitable means for adjusting the height shall be provided in the base section of each mobile unit.

1910.29(e)  
“Mobile work platforms” –

1910.29(e)(1)  
“Design.” Units shall be designed for the use intended and shall comply with the requirements of paragraph (a) of this section.

1910.29(e)(2)  
“Base width.” The minimum width of the base of mobile work platforms shall not be less than 20 inches [508 mm].

1910.29(e)(3)  
“Bracing.” Adequate rigid diagonal bracing to vertical members shall be provided.