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Visit the Versalite Staging web page at [wengercorp.com](http://wengercorp.com) for more information.

**Note:** Please read and understand these instructions before proceeding.

**Note:** If you need additional information, contact Wenger Corporation using the information below.

# ***Important User Information***

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## ***General***

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The information in this manual is subject to change without notice and does not represent a commitment on the part of Wenger Corporation. Wenger Corporation does not assume any responsibility for any errors that may appear in these instructions.

In no event will Wenger Corporation be liable for technical or editorial omissions made herein, nor for direct, indirect, special, incidental, or consequential damages resulting from the use or defect of these instructions. The manufacturer reserves the right to change this product at any time.

The information in this document is not intended to cover all possible conditions and situations that might occur. The end user must exercise caution and common sense when assembling or installing Wenger Corporation products. If any questions or problems arise, call the Wenger Corporation at (800) 4WENGER (493-6437) or +1-507-455-4100 worldwide.

## ***Manufacturer***

The Versalite® Ramp System is manufactured by:

Wenger Corporation  
555 Park Drive  
Owatonna, MN 55060  
(800) 4WENGER (493-6437) • +1 (507) 455-4100  
wengercorp.com

## ***Intended Use***

- This product is designed to be an accessibility ramp to a stage for individuals, performance groups and light equipment.
- This product is intended for indoor use in normal ambient temperature and humidity conditions – it must not be exposed to outside weather conditions.
- This product is intended to be assembled and used only as described in these instructions.

## ***Warranty***

Warranty information is available at [wengercorp.com](http://wengercorp.com).

## Safety Precautions

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Throughout this document you may find cautions and warnings which are defined as follows:

- **WARNING:** Failure to follow the instruction could result in serious injury or damage to property.
- **CAUTION:** Failure to follow the instruction could result in minor injury or damage to property.

Read all of these safety instructions before using the equipment.

### **⚠ CAUTION**

*Make sure anyone assembling, installing or using this product has read and understands these instructions.*

### **⚠ CAUTION**

*Failure to comply with Warnings and Cautions in this document or on the equipment can result in damage to property or injury.*

### Setup

Anyone working to set up the ramp system must be familiar with these instructions.

### **⚠ CAUTION**

*To avoid damage and injury, some set up steps require two people.*

### Rails

The side rails are not intended as a universal restraint. Excess weight or pressure will cause them to collapse.

### **⚠ WARNING**

*Rails can collapse if excess weight or pressure is applied.*

Never use the rails:

- As a perch
- As a tie-down

## **Introduction**

### **NOTICE**

***Included with each order is an installation layout drawing custom-made for your application, showing which sections are needed and in what order they are installed.***

***Save this drawing for future use!***

Because we want to maintain the flexibility of having Wenger Corporation platform products usable in a multitude of applications, this ramp system uses standard Versalite decks.

If you already have enough Versalite decks of the appropriate size, you won't need additional decks to construct the ramp: all you need is a retrofit package to construct the required handrails and a ramp approach unit.

If you don't have existing Versalite decks and have ordered them as part of this ramp system, you can also use them at any time for other uses such as flat staging, risers, fashion show runways, head tables, etc.

And if you need more decks for other uses, you can order additional Versalite decks at any time and they will fit into a fully-compatible platform system. With the Versalite ramp system, you aren't spending valuable money on a single-use product.

### ***Americans with Disabilities Act***

The Americans with Disabilities Act (ADA) is a revolutionary piece of civil rights legislation that guarantees any person with a qualified disability equal access to all areas of public accommodations and to the programs and activities held in public buildings. This legislation has far-reaching implications for making staging, risers, and audience and performer seating accessible to persons with these disabilities.

The ADA is explicit in its guidelines for ramps, including the degree of slope and the requirement for a continuous gripping surface on the entire length of the handrail.

The Versalite Ramp System is designed to fully comply with these guidelines for providing access to platforms.

## **Unpacking or Setting Up for the First Time**

1. Remove all parts from their shipping cartons (refer to the packing list enclosed with the shipment).  
Save the packaging materials at least until the ramp system has been set up the first time.
2. Sort all ramp parts by part number.

## **Important Setup Information**

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### **⚠ CAUTION**

*To avoid damage and injury, some set up steps require two people.*

#### **Ramp Slope**

The ADA allows a maximum 1:12 ramp slope. Your Wenger Corporation ramp accommodates ramp slopes up to 1:12, and also allows for reduced slopes to reach in-between stage heights without using nonstandard units.

#### **Landings**

The ADA allows a maximum height change of 30" (762 mm) before a landing is required. Your ramp may include one or more landings to comply with this requirement.

#### **Height Adjustments**

The adjustable legs supplied with the ramp adapt to ramp height variations up to 2" (51 mm), plus an additional adjustment allowance for uneven floors.

Each leg is marked with the nominal height range it will cover. This height should be matched to the nominal ramp height at each leg location. Refer to the installation layout drawing that was supplied with your ramp system: it shows your ramp unit heights and the actual leg lengths for each height. The leg lengths shown on the drawing may have to be adjusted slightly to correct for any irregularities in your floor.

# Basic Ramp Unit Set Up

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## **CAUTION**

To avoid damage and injury, some set up steps require two people.

## **NOTICE**

Start at the stage level and work your way down to the approach unit. Use the installation layout drawing as a guide.

### **Step 1**

Insert the appropriate legs into all leg sockets of the deck of the first ramp unit. Secure the legs with the leg latch.

## **WARNING**

Ramp units can fall if legs are not installed securely in all leg sockets.

### **Step 2**

Turn the assembled unit right-side up.

### **Step 3**

Adjust the height of the first (highest) ramp unit to match the stage:

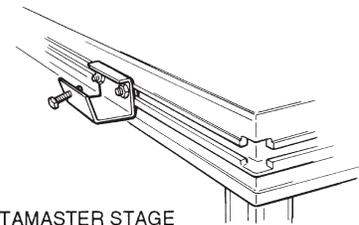
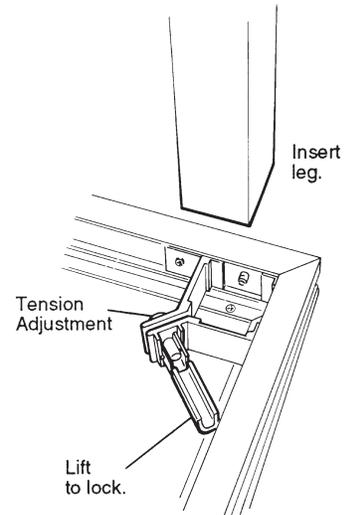
- If the first unit is a landing, level it.
- If the first unit is a sloping unit, adjust the lower end height to what is shown on the installation drawing.

To adjust the height of a unit, lift it until you can turn the footpad.

### **Step 4**

Connect the first ramp unit (sloping unit or landing) to the stage, using the adapters provided.

These adapters vary according to the configuration of the edge of the stage — refer to the parts list at the end of these instructions for additional information.



PORTAMASTER STAGE ADAPTER SHOWN

## Basic Ramp Unit Set Up (continued)

### Step 5

Insert the appropriate legs into the next deck unit (as in step 1) and set the assembled unit in place.

Refer to the installation layout drawing:

- The height of the upper end of this ramp unit will be the same as the lower end of the previous ramp unit.
- The height of the lower end of this second unit is shown on the installation layout drawing.

### Step 6

Secure the second ramp unit to the first one, using the connectors supplied:

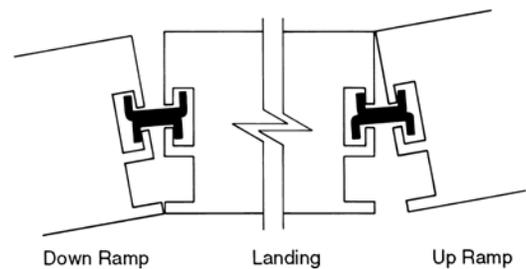
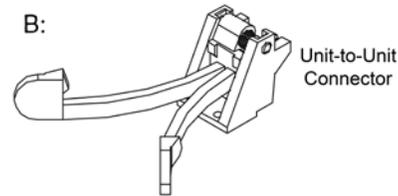
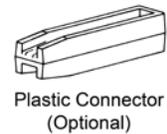
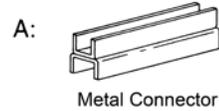
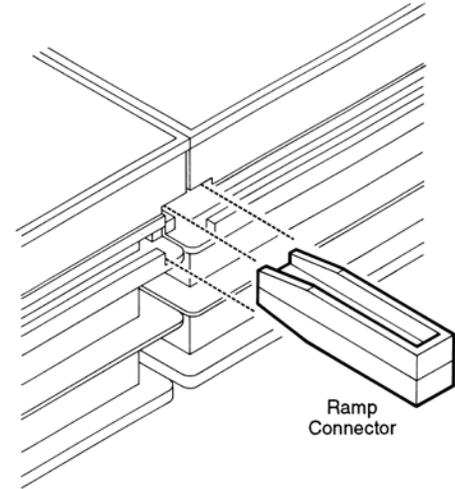
- Use two of the metal connectors or two optional plastic connectors (A) to connect a sloping section to a landing.

As shown in the lower schematic, install these connectors **wide-side up** when connecting a landing to a down-ramp section; install them **narrow-side up** when connecting a landing to an up-ramp section.

- Use the unit-to-unit connectors (B) to connect sloping ramp sections together.

### Step 7

Continue placing units down the ramp in the same manner, until you get to the approach unit. Include in-line, turn (90°), and switchback landings where shown on the installation layout drawing.

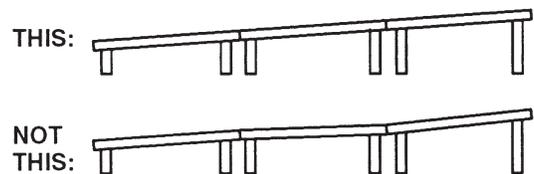
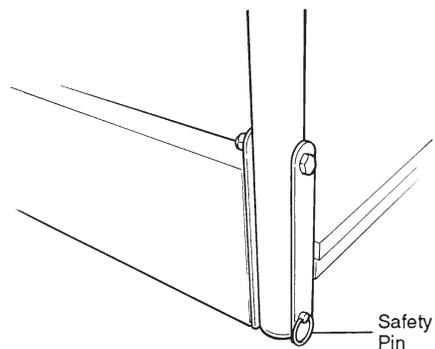
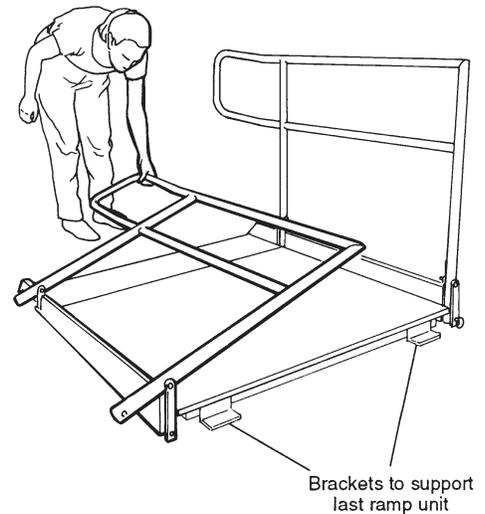


## Basic Ramp Unit Set Up (continued)

### Step 8

To set up the approach unit:

1. Set the unit on the floor near its final location.
2. Adjust the legs on the upper end of the unit to adapt to any floor irregularities.
3. Unfold the handrails.
4. Insert the safety pin at the base of each support.
5. Lift the down-ramp side of the last ramp unit. Move the approach unit into place under the last ramp unit, and lower the ramp unit onto the brackets shown in the illustration.
6. Adjust the leveling feet to "fine-tune" the ramp so its straight runs are not wavy.



## ***Attach the Rail Frames***

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In the following procedure, use the appropriate rail frames for each sloping section or landing. Refer also to the installation layout drawing that was supplied with your ramp section.

### ***Sloping Section***

Attach two 3' or 4' (914 or 1219 mm) or straight rail frames to the sloping unit.

### ***In-Line Landing or In-Line Stage-Approach Landing***

Attach two 3' or 4' (914 or 1219 mm) straight rail frames to the landing.

### ***Left- or Right-Hand Turn (90°) Landing***

Attach a 5' (1524 mm) straight rail frame to the up-ramp side of the landing.

Attach a 5' (1524 mm) 3-prong rail frame to the down-ramp side of the landing (left-hand rail frame if the ramp is turning left as you go down).

### ***Switchback Landing***

Attach 5' (1524 mm) 3-prong rail frames to the up-ramp and down-ramp sides of the landing (use left-hand or right-hand rail frame as shown on the layout drawing).

### ***Sloping Stage-Approach Section***

Attach two 3' or 4' (914 or 1219 mm) straight rail frames to the sloping unit.

### ***Left- or Right-Hand (90°) Stage-Approach Landing***

Attach a 5' (1524 mm) 3-prong rail frame to the side of the landing that is to have a rail (left-hand rail frame if turning left onto the stage).

Attach a 5' (1524 mm) straight rail frame across the landing at the threshold to the stage.

### ***Step 1***

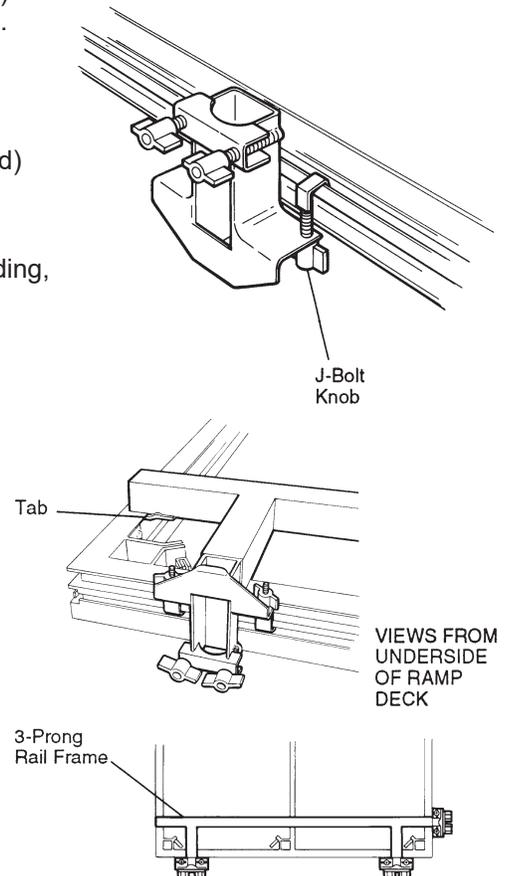
Hold a rail frame under the sloping unit or landing – about 15" (381 mm) from the end of a sloping unit, or 8" (203 mm) from the end of a landing.

Hook the two J-bolts into the groove on each edge of the ramp deck, and secure them with the knobs. Secure the knobs loosely so the rail frame can be moved later to line up with the rail posts.

When installing a 3-prong rail frame, note that it has a tab (near one end) which must be fitted onto the inside edge of the ramp deck.

### ***Step 2***

Install a second rail frame at the other end of the sloping section or landing, in the same way.



# Install the Rails in the Rail Frames

## NOTICE

*The rail frames must be in place, but not tightened.  
Install rails by working up the ramp, starting with the ramp section which is next to the approach unit.*

### Step 1

Refer to the installation drawing to determine the appropriate rails for the first ramp section.

Slide the rail uprights into the receiving pockets on the rail frames. Press down until the curb plate touches the ramp deck. You may have to move the rail frames so they line up with the uprights.

### Step 2

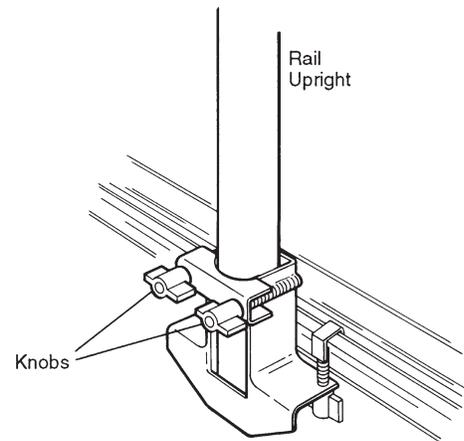
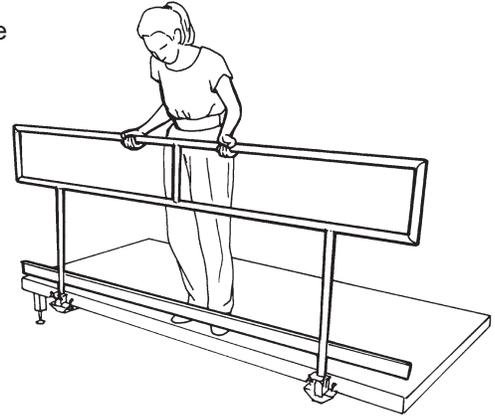
Tighten the two upper knobs on the rail frames to hold the uprights firmly in place. Leave the two J-bolt knobs loose.

### Step 3

Move the entire rail assembly into place by sliding the assembled rail frame and rail down the ramp unit until it butts against the rail on the approach unit. Then tighten the J-bolt knobs to secure the rail frames to the ramp units.

### Step 4

Install the remaining rails in the same way as steps 1 - 3. At landings, you will have to space the rail curbs 5/8" back from the edge of the landing units.



# Secure Rail Sections Together

## NOTICE

*After all rail assemblies have been installed, they must be secured together according to the following instructions, to maintain continuous control along the inside curve of the handrail.*

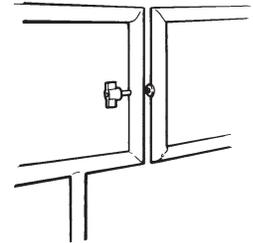
## NOTICE

*You will find that there is a gap on the inside turn for 90° turn landings and switchback landings at locations where there is no rail section. These gaps require filler handrail pieces to comply with ADA's requirement for continuous control on the handrail. The filler pieces are labeled with part numbers: refer to the installation layout drawing that was supplied with your ramp system.*

### **Standard Rail-to-Rail Connections**

Each down-ramp rail section has a threaded bolt with a knob. Each up-ramp rail section has a threaded insert to receive the bolt.

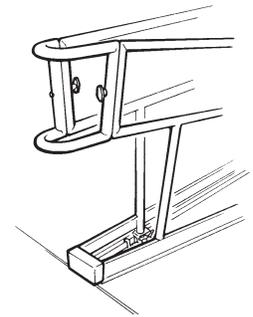
Secure the rail sections together by screwing the bolts into the inserts. You may have to loosen the rail sections at the rail frames so you can line up the bolt and insert.



### **Switchback Landings (Inside Curve Only)**

Install a center switchback rail, to eliminate the gap at the inside turn of the handrail. Use the same fasteners as for standard rail-to-rail connections (above).

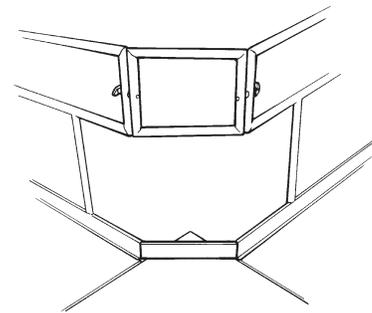
Tap a switchback curb filler onto the open ends of the two rail curbs.



### **90° Turn Landings (Inside Curve Only)**

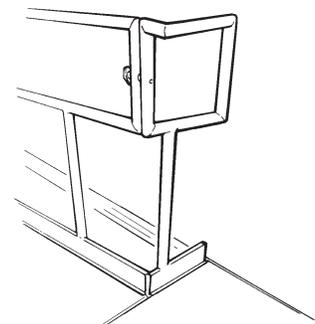
Install an appropriate left- or right-hand corner rail at the inside turn of the handrail, using the standard fasteners (above).

Slide a turn curb filler into the open ends of the two rail curbs.



### **Rail Ending At The Stage (Inside Curve Only)**

If the ramp sections up to the final landing run parallel to the stage, install the special short rail section shown (at the inside turn). It attaches to the landing and to the final rail section in the same way as standard rail sections, to provide a continuous handrail to comply with ADA requirements.



## Connecting Versalite Ramp to StageTek® Deck



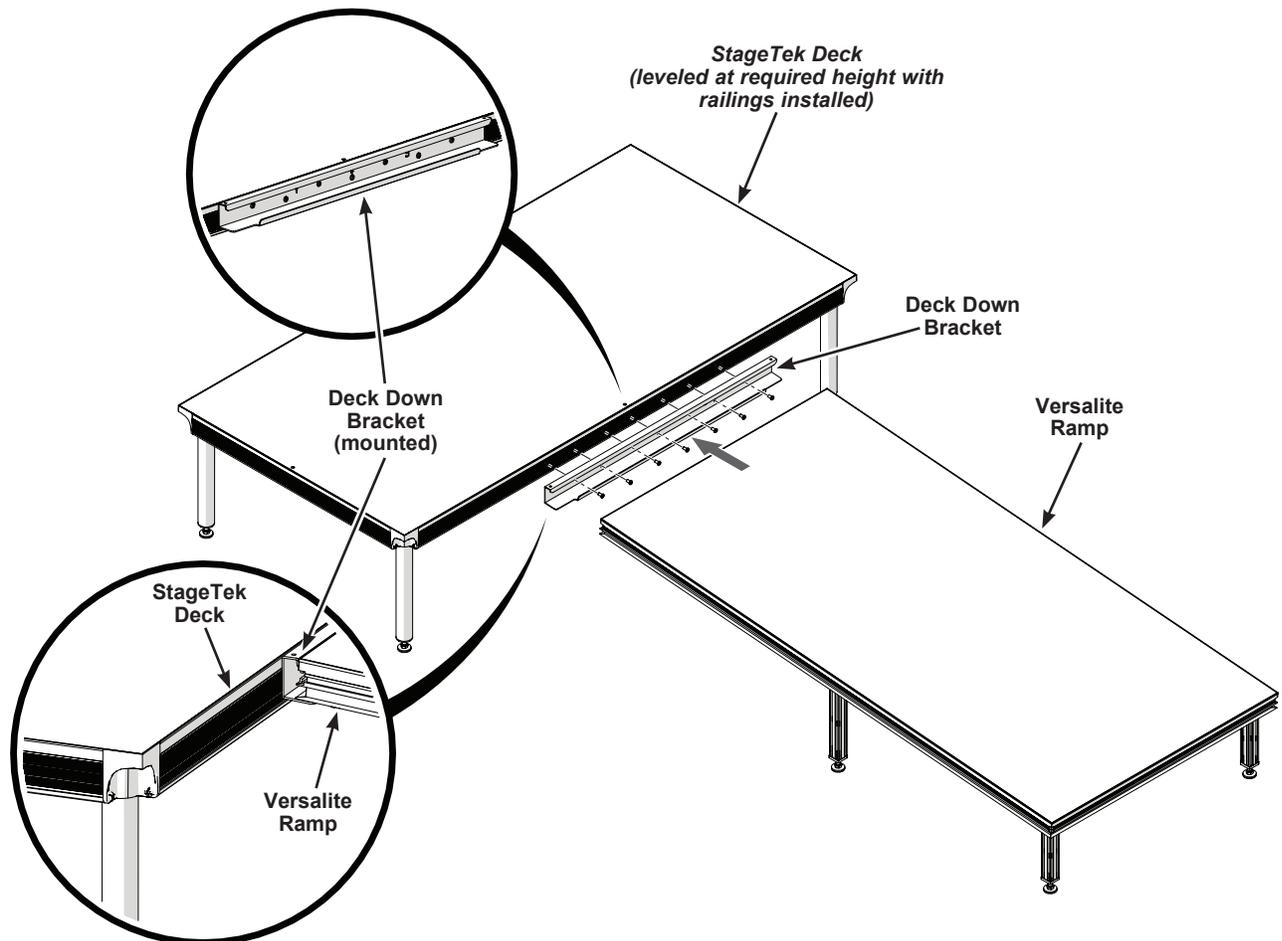
**This procedure is only for connecting Versalite ramps to StageTek decks. Configurations may vary, contact Wenger Corporation if yours isn't shown in these instructions.**

1. Connect the highest deck to the existing staging system.

**Be sure that the existing stage is level and that the height is the same as the specified height of the ADA ramp. All railings should already be installed on the existing stage.**

**Be sure that the ramp surfaces are flush to avoid trip hazards.**

- a. Using the included hardware, attach the deck down bracket to the StageTek deck as shown. **Holes may need to be drilled into the deck to mount the bracket.**
- b. Lift the Versalite ramp to sit on the deck down bracket.



# Maintenance

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## Decks

Keep the deck surfaces clean and dry. When necessary, clean with a broom or brush. No other maintenance is required. Do not use oil-based cleaning products, and do not wax or polish the decks.

### **WARNING**

*To keep deck from becoming slippery,  
do not use wax or polish.*

## Preventative Maintenance

Inspect all fasteners and components on the system and accessories every six months, and tighten as necessary. Replace any worn, bent, or broken parts promptly to prevent injury.

# Replacement Parts

## Ordering Replacement Parts

Contact Wenger Corporation directly to order replacement parts.

When ordering replacement parts, always indicate the product name and model.

### NOTICE

On the following pages:

"Left-Hand" = On your left as you walk up the ramp.

"Right-Hand" = On your right as you walk up the ramp.

"Upper" = At the upper end of the ramp section.

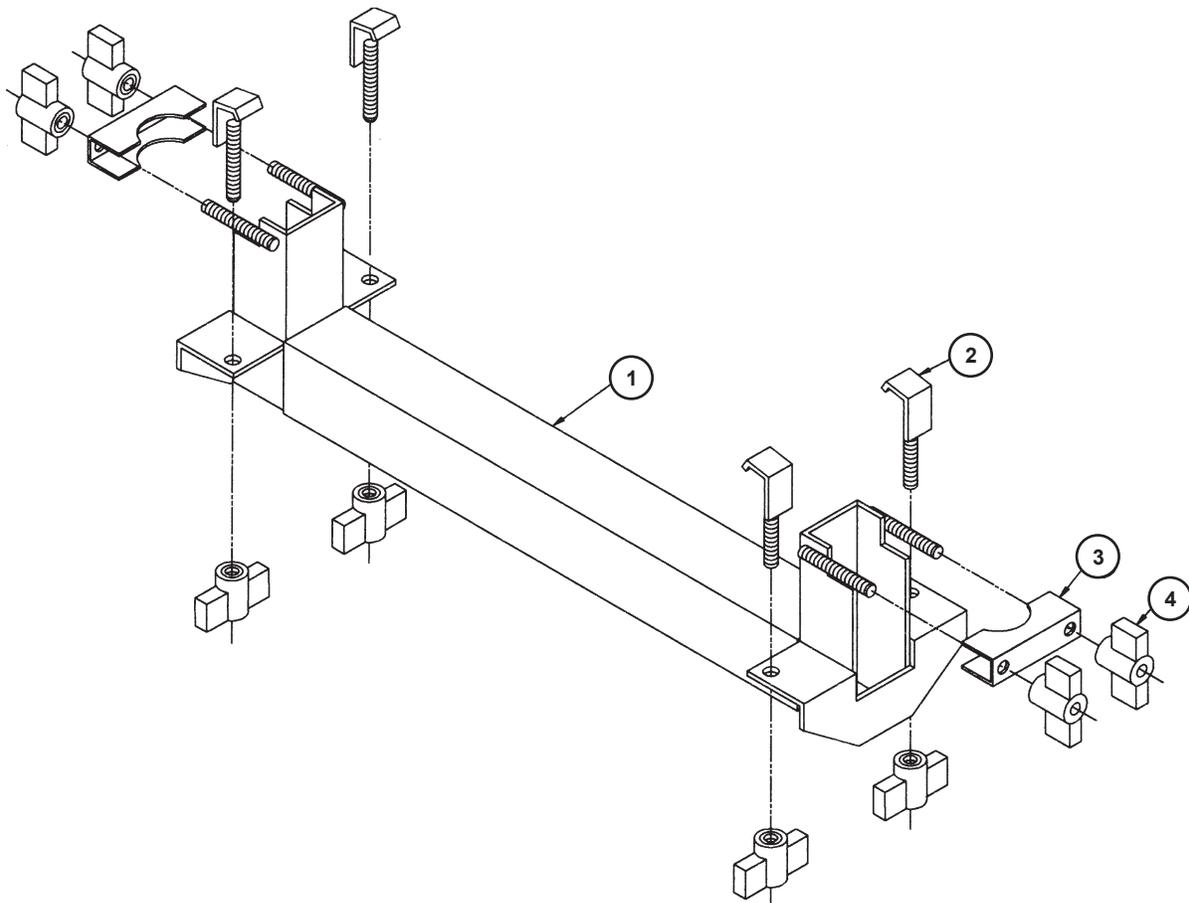
"Lower" = At the lower end of the ramp section.

## Rail Frame

### NOTICE

Straight rail frame shown. Frame for 90° or switchback locations has an additional rail tube clamp assembly.

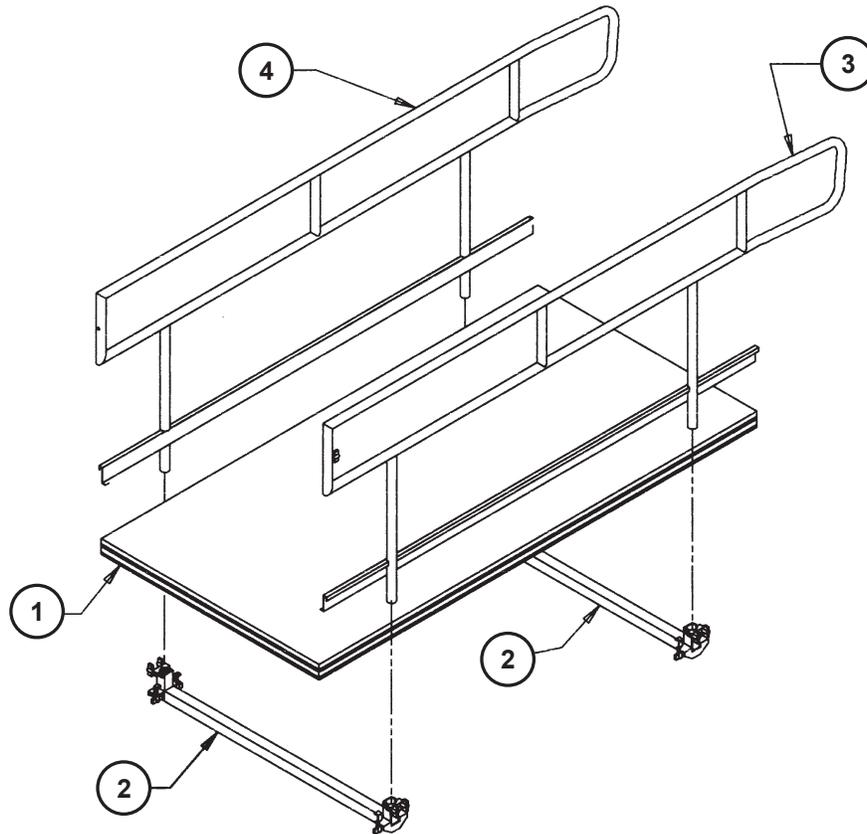
Item	Description
1	Rail Frame Weldment—not available separately: order complete rail frame assembly
2	Hook Weldment, Attachment
3	Rail Tube Attachment Clamp
4	5/16-18 Threaded Hole Knob



## Replacement Parts (continued)

### Ramp-to-Stage Sloping Unit (Straight)

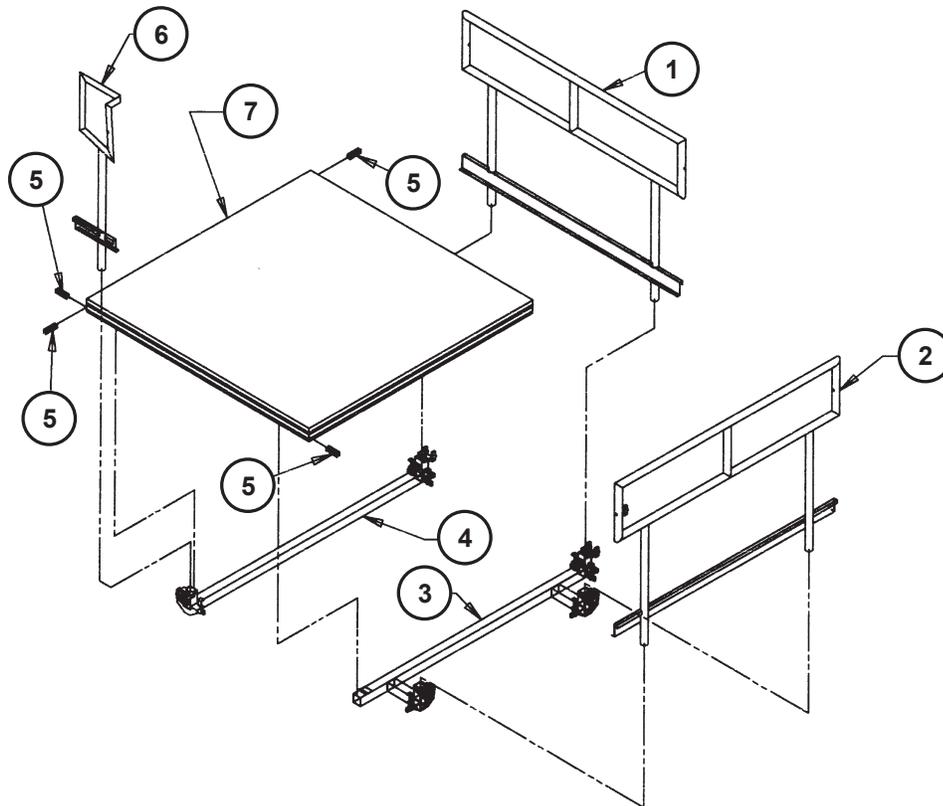
Item	Description
1	Deck—specify: Size: 4' x 8', 3' x 8', 4' x 6', 3' x 6', 4' x 4' or 3' x 4' Surface Color: black or gray
2	Frame, Rail, Straight—specify: Deck Width: 4' or 3'
3	Rail Assembly, Right-Hand, Loop End—specify: Deck Length: 8', 6' or 4'
4	Rail Assembly, Left-Hand, Loop End—specify: Deck Length: 8', 6' or 4'
-	Adapter, Ramp-to-Stage—specify: Stage: Versalite, Vision 4' ramp, Vision 3' ramp, Showmaster (Type C), Portamaster or Showmaker



# Replacement Parts (continued)

## Ramp-to-Stage Landing Unit (90°)

Item	Description
1	Rail Assembly, Straight, 5'
2	Rail Assembly, 5' Landing—specify: Position: right-hand lower or left-hand lower
3	Frame, Rail, 5' Landing—specify: Position: right-hand or left-hand
4	Frame, Rail, Straight, 5' Landing
5	Adapter, Ramp-to-Stage—specify: Stage: Versalite, Vision 4' Ramp, Vision 3' Ramp, Showmaster (Type C), Portamaster or Showmaker
6	Rail Assembly, Stage—specify: Position: right-hand or left-hand Deck Width: 4' or 3'
7	Deck, Landing, 5' x 5'—specify: Surface Color: black or gray



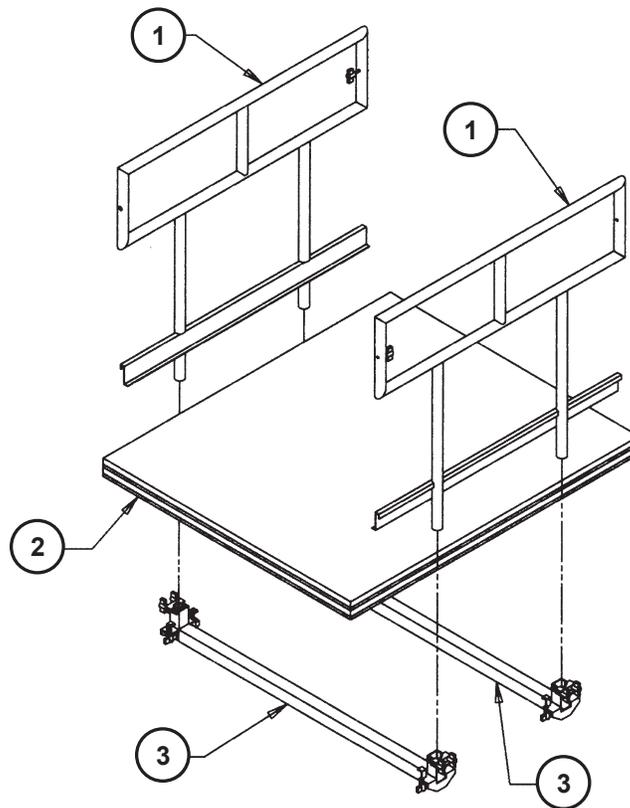
# Replacement Parts (continued)

## Sloping Unit (Straight)

### NOTICE

Refer to "Rail Frame" for ramp-to-stage sloping unit.

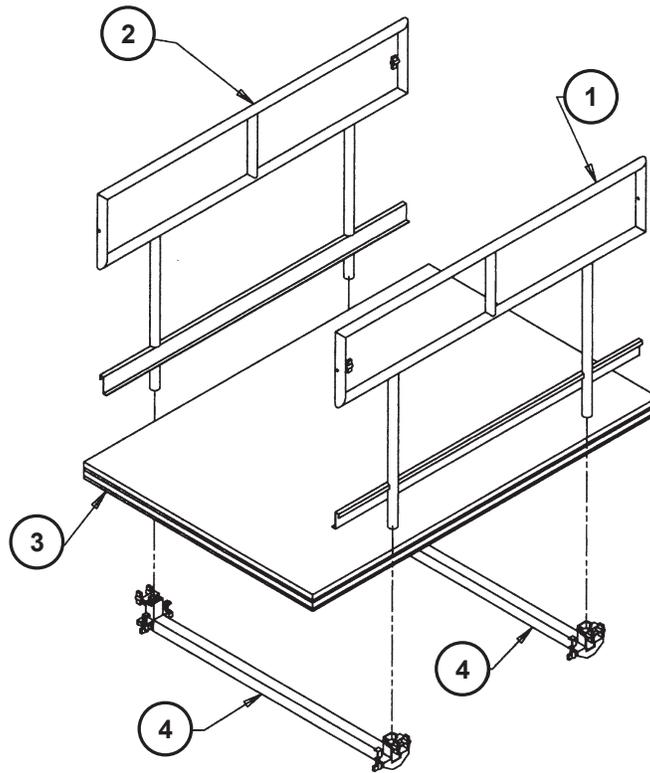
Item	Description
1	Rail Assembly, Straight—specify: Deck Length: 8', 6' or 4'
2	Deck—specify: Size: 4' x 8', 3' x 8', 4' x 6', 3' x 6', 4' x 4' or 3' x 4' Surface Color: black or gray
3	Frame, Rail, Straight—specify: Deck Width: 4' or 3'
-	Adapter, Ramp, Versalite (to connect a sloping unit to a landing)
-	Adapter, Ramp, Black Plastic (to connect two sloping units)



# Replacement Parts (continued)

## Landing Unit (Straight)

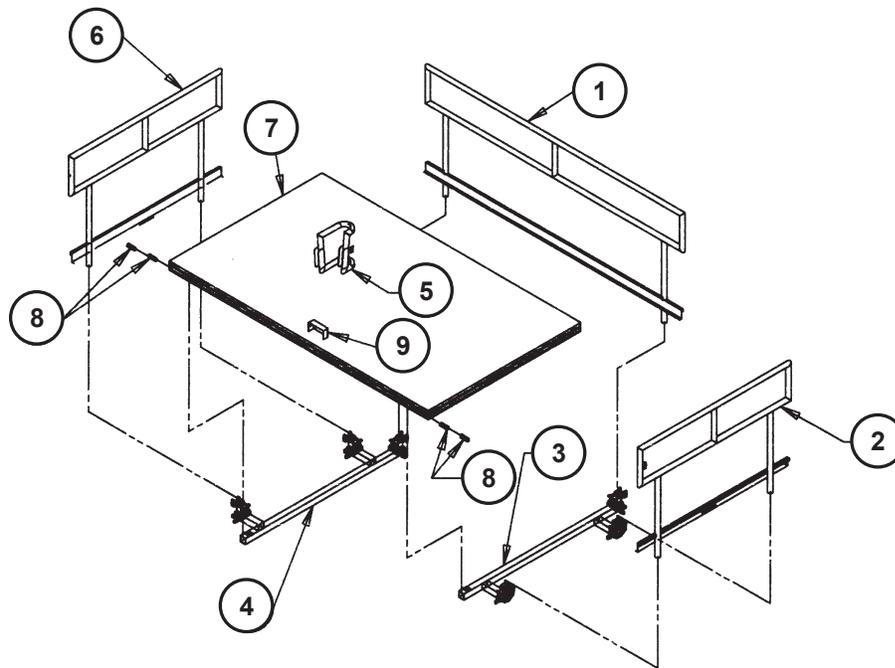
Item	Description
1	Rail Assembly, Right-Hand, In-Line Landing—specify: Deck Width: 3' or 4'
2	Rail Assembly, Left-Hand, In-Line Landing—specify: Deck Width: 3' or 4'
3	Deck—specify: Size: 4' x 6' or 3' x 6' Surface Color: black or gray
4	Frame, Rail, Straight—specify: Deck Width: 3' or 4'
-	Adapter, Ramp, Versalite (to connect a sloping section to a landing)



# Replacement Parts (continued)

## Landing Unit (Switchback)

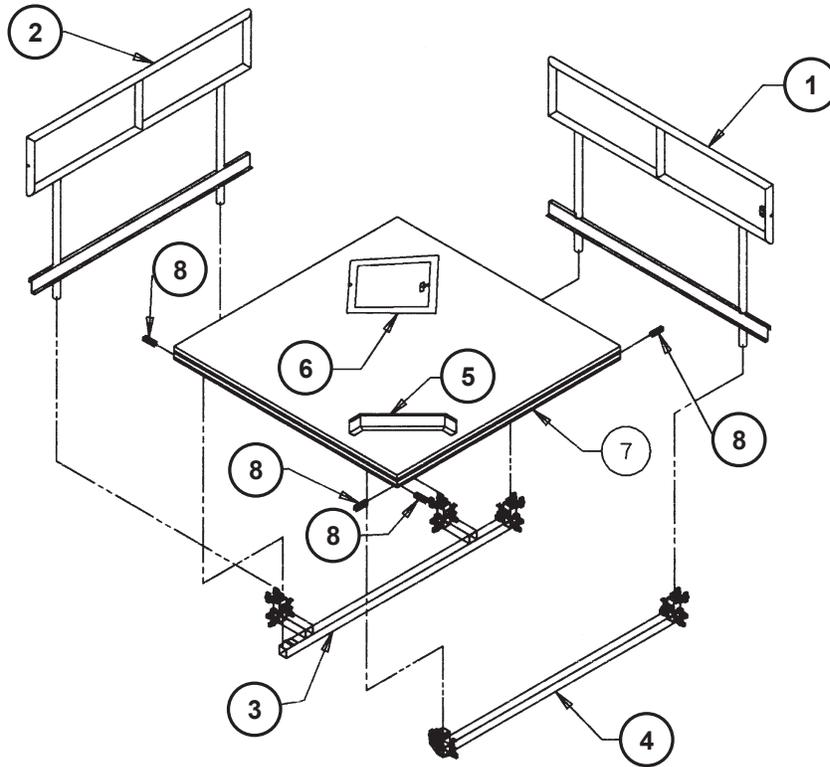
Item	Description
1	Rail Assembly, Back, Switchback—specify: Deck Width: 3' or 4'
2	Rail Assembly, 5' Landing—specify: Position: left-hand upper or right-hand lower
3	Frame, Rail, Right-Hand, 5' Landing
4	Frame, Rail, Left-Hand, 5' Landing
5	Rail Assembly, Center, Switchback—specify: Direction: right-hand or left-hand
6	Rail Assembly, 5' Landing—specify: Position: right-hand upper or left-hand lower
7	Deck—specify: Size: 5' x 8'-6" or 5' x 6'-6" Surface Color: black or gray
8	Adapter, Ramp, Versalite (to connect a sloping section to a landing)
9	Curb, Center, Switchback



# Replacement Parts (continued)

## Landing Unit (90°)

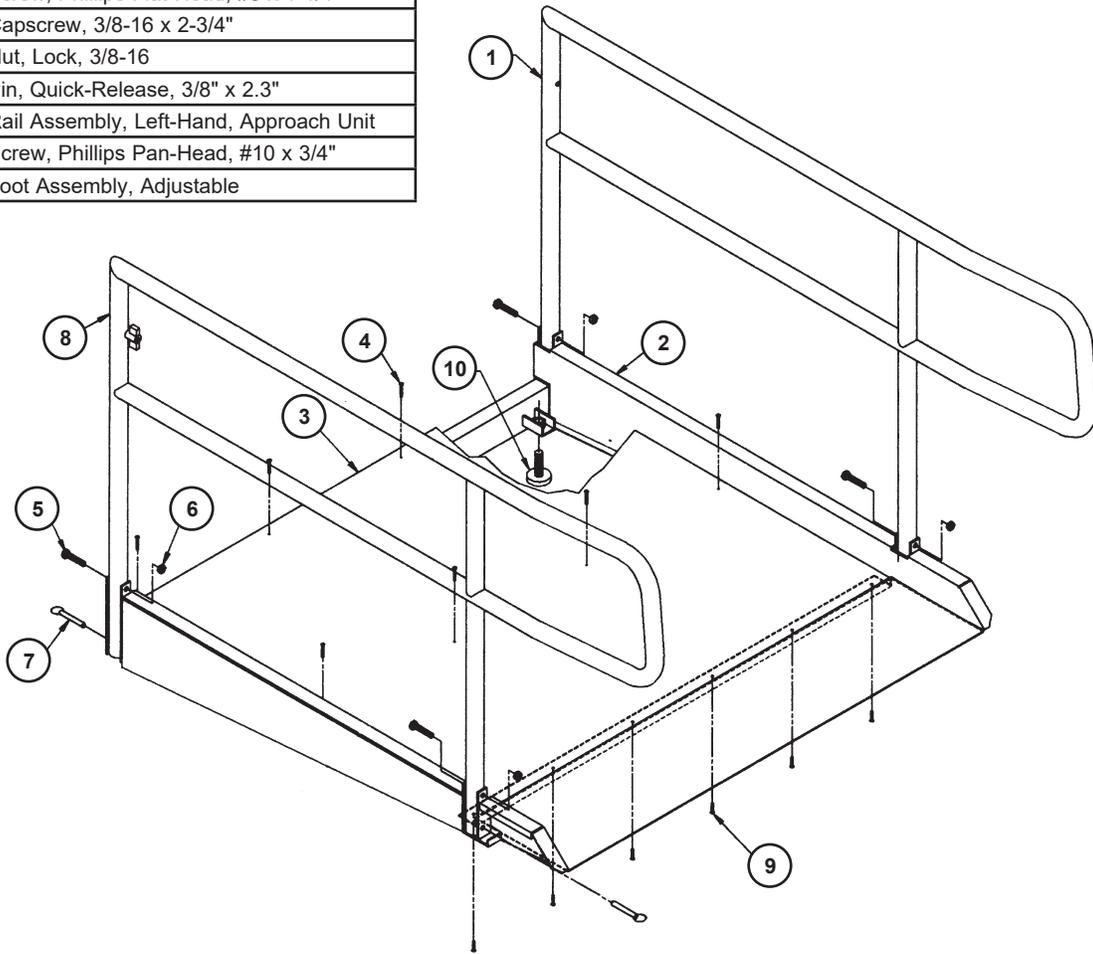
Item	Description
1	Rail Assembly, 5' Landing—specify: Position: right-hand upper or left-hand upper
2	Rail Assembly, 5' Landing—specify: Position: left-hand upper or right-hand lower
3	Frame, Rail, 5' Landing—specify: Position: right-hand or left-hand
4	Frame, Rail, Straight, 5' Landing
5	Curb, Corner—specify: Deck Width: 4' or 3'
6	Rail Assembly, Corner—specify: Position: right-hand or left-hand Deck Width: 4' or 3'
7	Deck Landing, 5' x 5'—specify: Surface Color: black or gray
8	Adapter, Ramp, Versalite (to connect a sloping section to a landing)



# Replacement Parts (continued)

## Approach Unit

Item	Description
1	Rail Assembly, Right-Hand, Approach Unit
2	Base Assembly, Approach Unit—specify: Deck Width: 4' or 3'
3	Top—specify: Deck Width: 4' or 3' Surface Color: black or gray
4	Screw, Phillips Flat-Head, #8 x 1-1/4"
5	Capscrew, 3/8-16 x 2-3/4"
6	Nut, Lock, 3/8-16
7	Pin, Quick-Release, 3/8" x 2.3"
8	Rail Assembly, Left-Hand, Approach Unit
9	Screw, Phillips Pan-Head, #10 x 3/4"
10	Foot Assembly, Adjustable

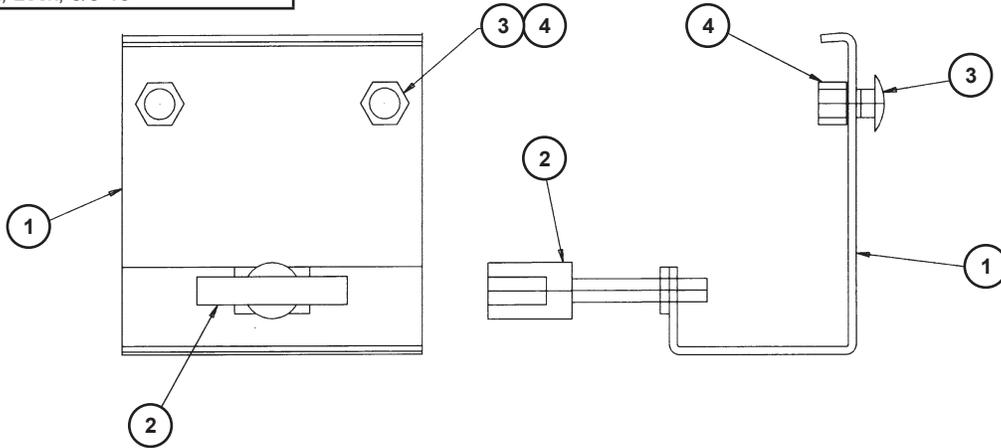


# Replacement Parts (continued)

## Ramp-to-Stage Adapters

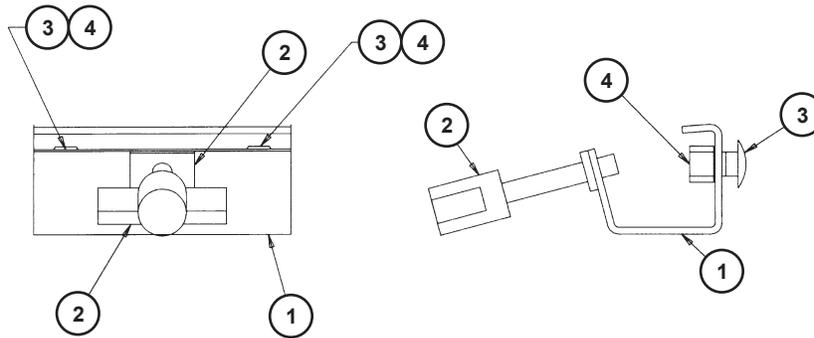
### Showmaster (Type C) Stage

Item	Description
1	Adapter Weldment, Type C
2	Knob, 5/16-18 x 1-1/2" Stud
3	Bolt, Carriage, 3/8-16 x 3/4"
4	Nut, Lock, 3/8-16



### Portamaster Stage

Item	Description
1	Adapter Weldment, Portamaster
2	Knob, 5/16-18 x 1-1/2" Stud
3	Bolt, Carriage, 3/8-16 x 3/4"
4	Nut, Lock, 3/8-16

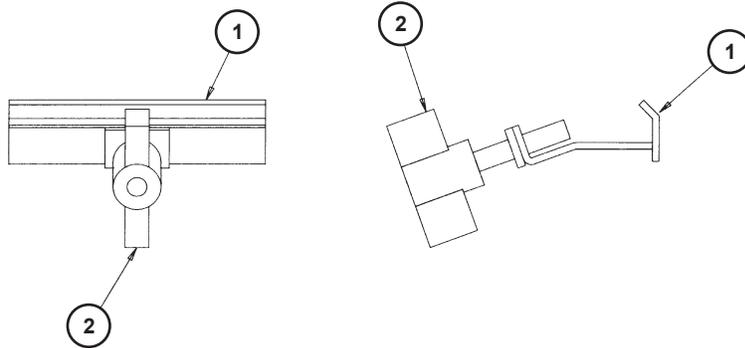


# Replacement Parts (continued)

## Ramp-to-Stage Adapters (continued)

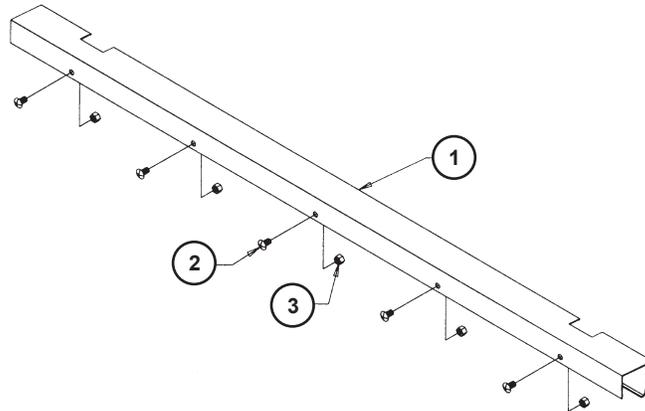
### Showmaker Stage

Item	Description
1	Adapter Weldment, Showmaker
2	Knob, 5/16-18 x 1-1/2" Stud



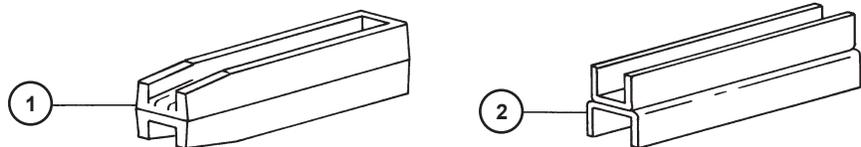
### Vision Stage

Item	Description
1	Panel, Landing, Vision—Specify: Deck Width: 4' or 3'
2	Bolt, Carriage, 3/8-16 x 3/4"
3	Nut, Lock, 3/8-16



### Versalite Stage

Item	Description
1	Unit-to-Unit Connector
2	Clip Assembly, Versalite Adapter



# Replacement Parts (continued)

## Legs of Ramp Units

Item	Description
1	Leg—specify: Part Number (marked on the leg)
2	Nut, Lock, 3/8-24
3	Plate, Wear
4	Handle Assembly, Leg Latch

