



SafeRack
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Andrews, SC 29510
Phone 888-878-1839
Fax 843-264-8584

SafeLok

OWNER'S MANUAL



THIS PRODUCT AND/OR IT'S COMPONENTS MAY BE COVERED BY ONE OR MORE PATENTS, SEE WWW.SAFRACK.COM/PATENTS

SafeLok ASSEMBLY



WARNING! READ CAREFULLY AND UNDERSTAND ALL INSTRUCTIONS BEFORE STARTING INSTALLATION. FAILURE TO FOLLOW ALL INSTRUCTIONS MAY RESULT IN DEATH OR SERIOUS PERSONAL INJURY.

IMPORTANT

- Equipment should not be altered or modified from its original design without consultation with the manufacturer.
- Minimum temperature range is -20 degrees F (-28 degrees C), maximum temperature is 200 degrees F (93 degrees C).
- Equipment which is damaged or becomes damaged during use, handling, or shipping should be set aside and not used.



- **WARNING! Failure to assemble properly can result in product damage not covered under warranty. Failure to secure all fasteners may result in death or serious personal injury.**
- **TORQUE DATA:**
For 1/4" stainless steel bolted connections = 63 in-lbs. (5 ft-lbs.) lubricated or 75 in-lbs. (6 ft-lbs.) dry +/-10%.
For 3/8" stainless steel bolted connections = 200 in-lbs. (16.5 ft-lbs.) lubricated or 235 in-lbs. (19.5 ft-lbs.) dry +/-10%.
For 3/4" galvanized bolted connections = 2400 in-lbs. (200 ft-lbs.) lubricated or 3000 in-lbs. (250 ft-lbs.) dry +/-10%.

For 1/4" stainless steel bolted connections = 7 N-m lubricated or 8 N-m dry +/-10%.

For 3/8" stainless steel bolted connections = 23 N-m lubricated or 27 N-m dry +/-10%.

For 3/4" galvanized bolted connections = 271 N-m lubricated or 339 N-m dry +/-10%.

NOTICE: Do not use impact wrenches.



- **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! 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

SafeLok ASSEMBLY

ASSEMBLY CRITERIA

Verify proper installation according to G4 Gangway/Cage Lock-down Assembly installation manual. In addition, make sure to check the following specifically.

- Ensure all bolts are installed properly at the T-Frame, Basetread, Underslung, U-body, Cable and mechanical lock.
- Ensure leading edge of underslung mount and u-body edge are flush.
- Ensure all bolts are properly tightened according to installation manual.
 - No impact wrenches are to be used – tighten all bolts by hand.

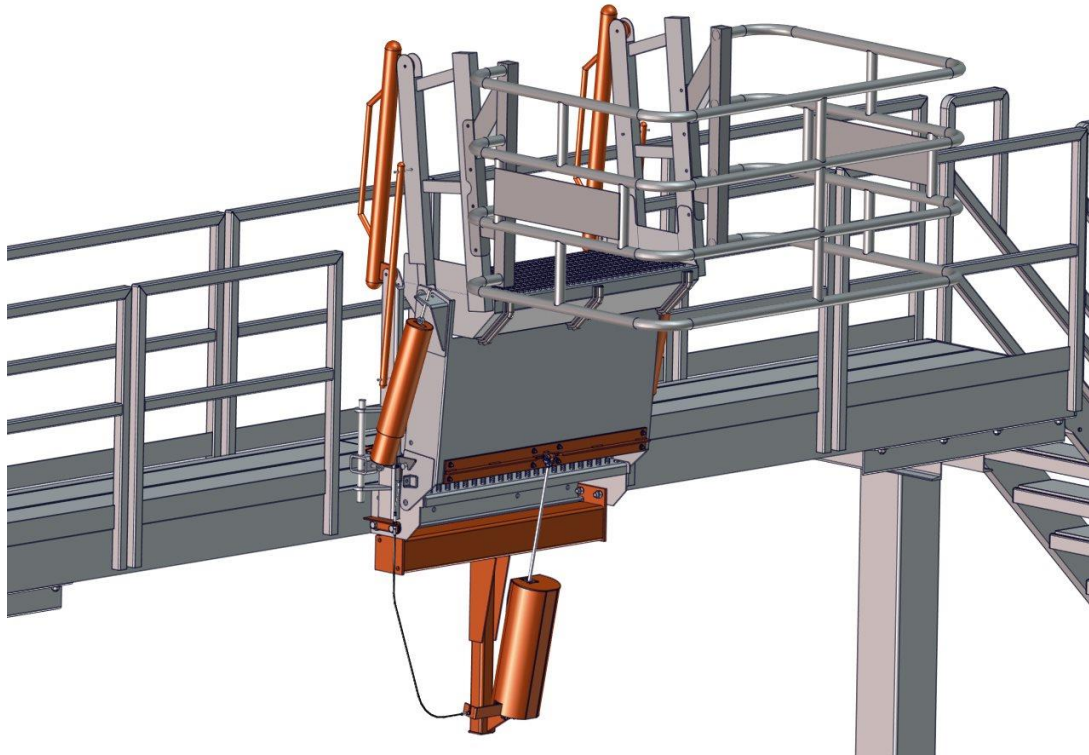
TOOLS REQUIRED

- 1-1/8" Wrench and Socket
- 3/4" Wrench
- 9/16" Wrench and Socket
- 7/16" Wrench and Socket
- Pliers
- For Field Retrofit – Drill with 5/16" bit, 1/2" bit.

INSTALLATION SERVICES

Installation can be provided by SafeRack Construction Services (SCS). Contact your local sales representative or call SCS at 844-727-7782 for a quotation.

SafeLok ASSEMBLY

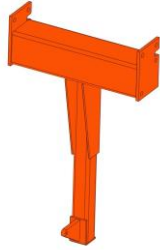


INTRODUCTION:

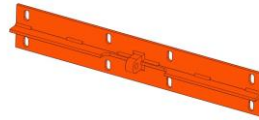
G4 Gangway/Cage Lock-down Assembly is designed to prevent and deter lifting of cage and gangway from vehicle.

SafeRack uses only the highest quality material in the construction of its products to ensure the quality, strength, and dependability for years. It is very important to follow installation instructions for your system. Design limitations can exist with respect to existing interferences.

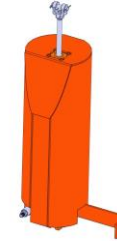
COMPONENTS



T-FRAME



UNDERSLUNG



LOCK-DOWN MECHANISM



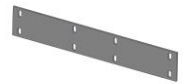
UHMW SPACER



ANGLE



CABLE LUG



ISO-PAD



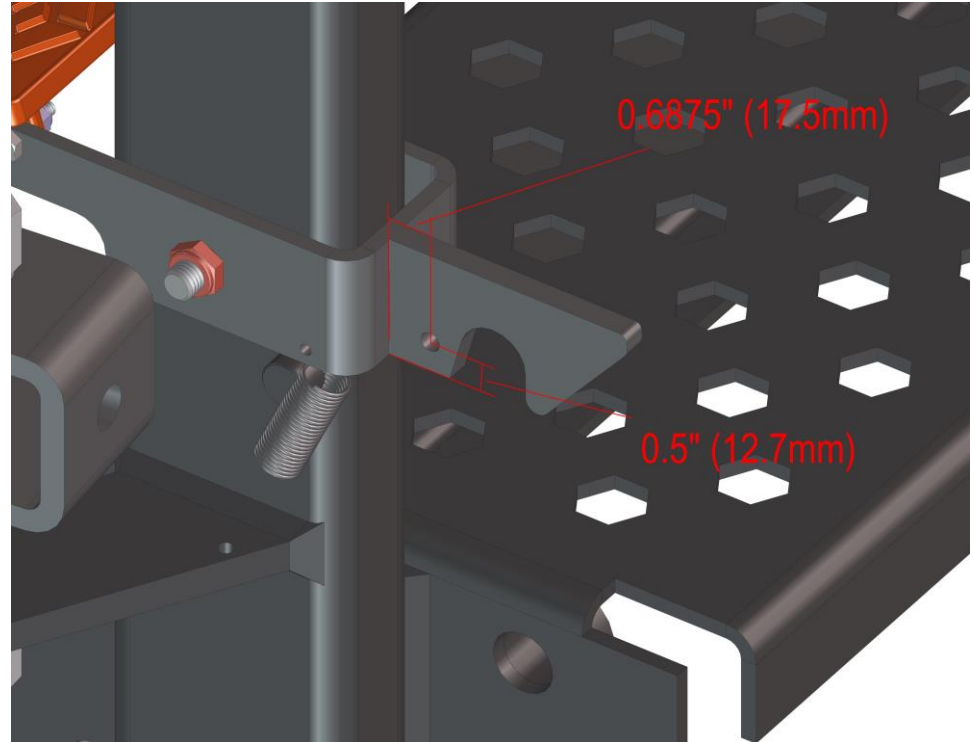
CABLE



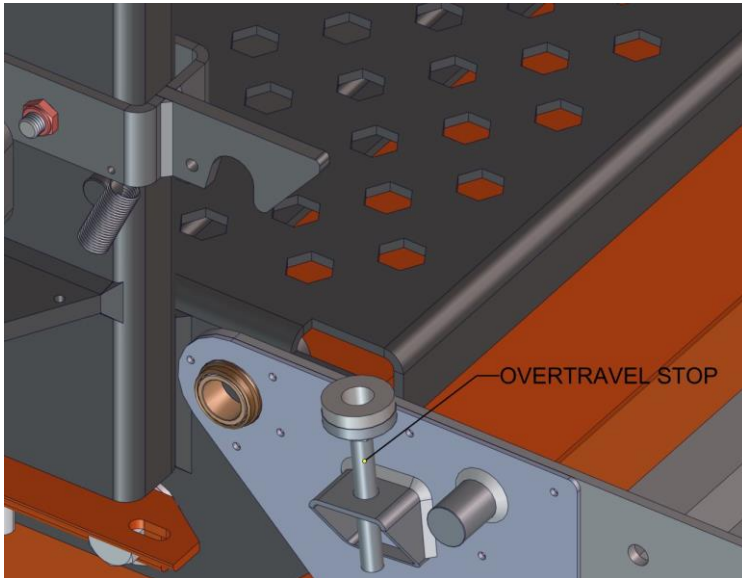
ASSEMBLY
BOLT KIT

FOOTLOCK MODIFICATION

- For retrofit systems, foot lock will need to be modified.
- With gangway in operating position, drill hole $\varnothing 0.3125"$ (8mm) in foot lock per dimensions shown.
- New gangway systems may already have this hole.

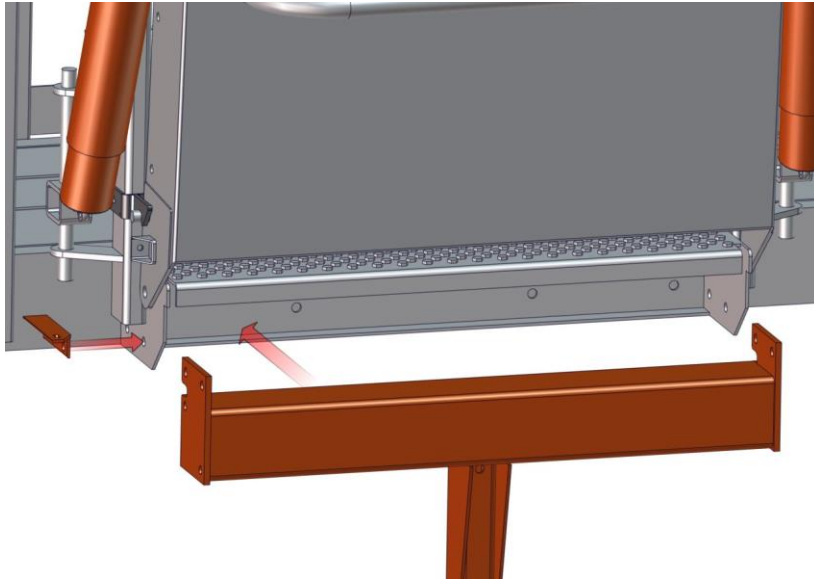


REMOVE OVERTRAVEL STOP



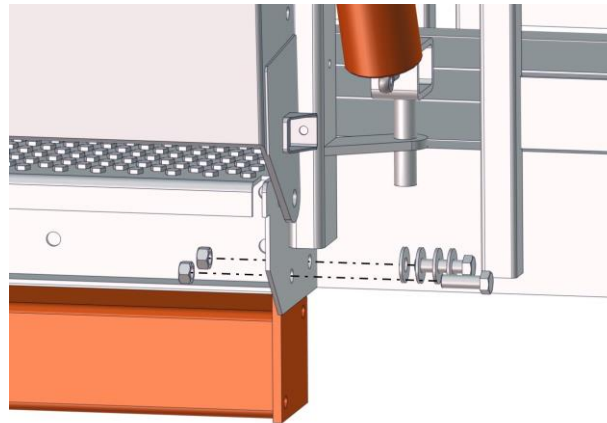
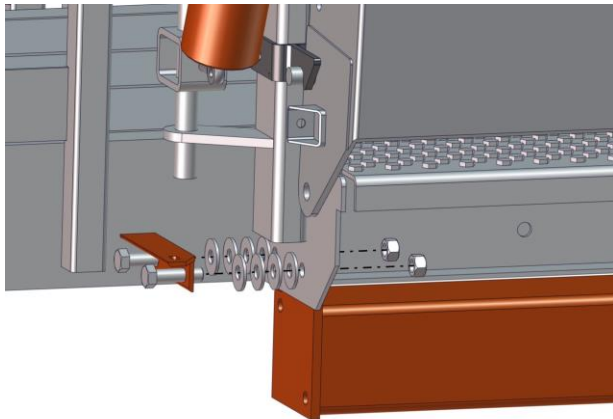
- Footlock side overtravel stop must be completely removed on this side of gangway before attaching cable.
- Gangway must not be in stored position to remove the overtravel stop.

T-FRAME CONNECTION (NON TRACKING GANGWAY)

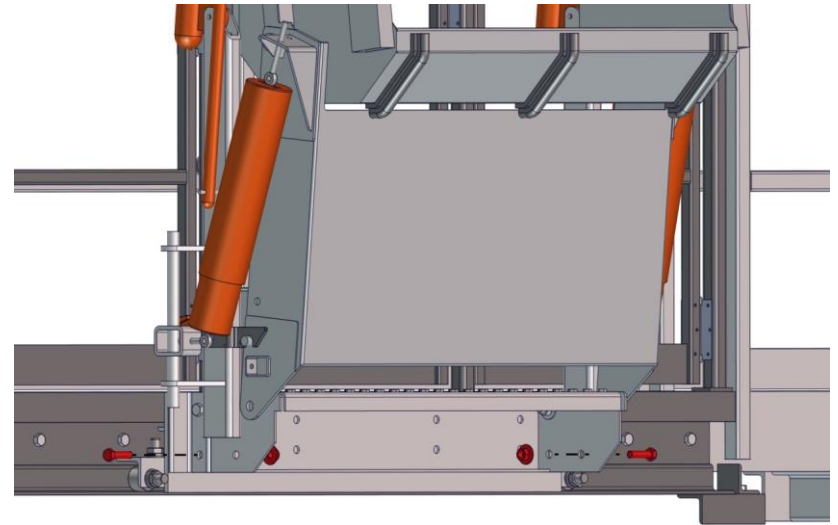
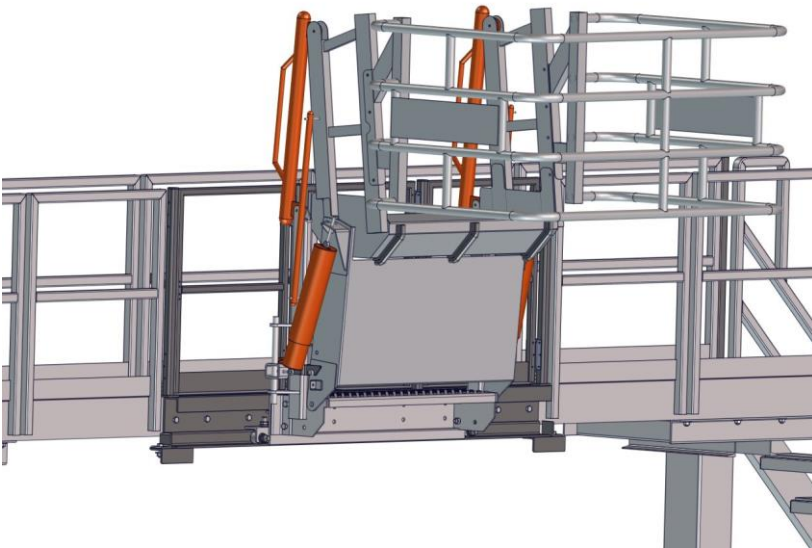


- Position T-frame and angle as shown.
- Secure with hardware as shown, bolt head oriented to the outside of the gangway.
- Hardware consists of (1) $\frac{3}{4}$ " x $2\frac{1}{4}$ " & (3) $\frac{3}{4}$ " x $2\frac{3}{4}$ " Galvanized bolts, $\frac{3}{4}$ " Galvanized nuts, and $\frac{3}{4}$ " flat washers.
- Securely tighten hardware.

NOTE: Washers used between basetread and angle.



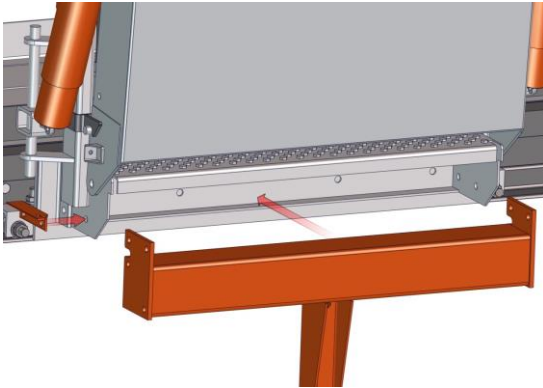
T-FRAME CONNECTION (TRACKING GANGWAY)



WARNING! During installation, gangway should be securely supported or removed from platform. Failure to support gangway may result in death or serious personal injury.

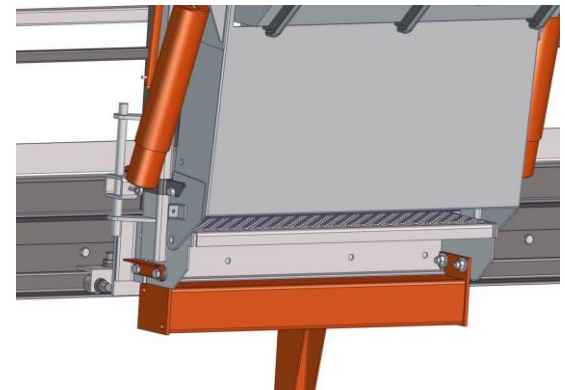
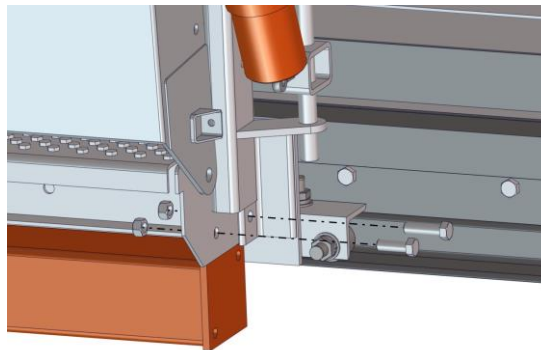
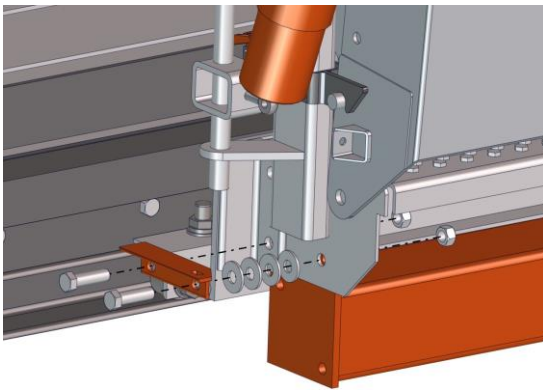
- Once gangway is supported, remove lower bolts (shown in red) of carriage to gangway.

T-FRAME CONNECTION (TRACKING GANGWAY)

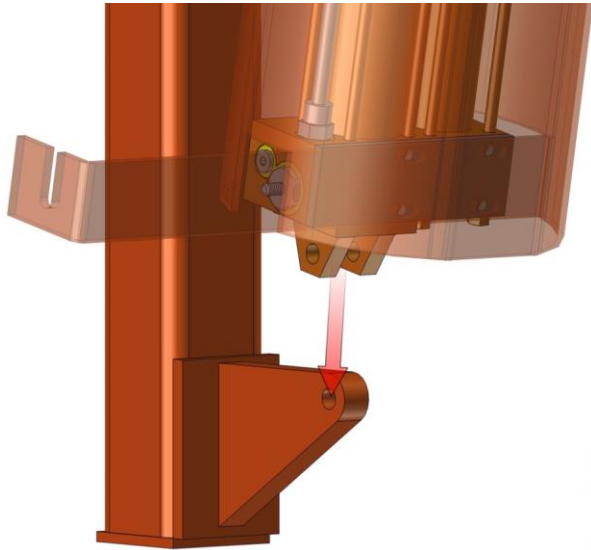


- Position T-frame and angle as shown.
- Secure with hardware as shown, bolt head oriented to the outside of the gangway
- Hardware consists of (1) $\frac{3}{4}$ " x $2\frac{1}{4}$ " & (3) $\frac{3}{4}$ " x $2\frac{3}{4}$ " Galvanized bolts, $\frac{3}{4}$ " Galvanized nuts, and $\frac{3}{4}$ " flat washers.
- Securely tighten hardware.

NOTE: Washers used between basetread and angle.

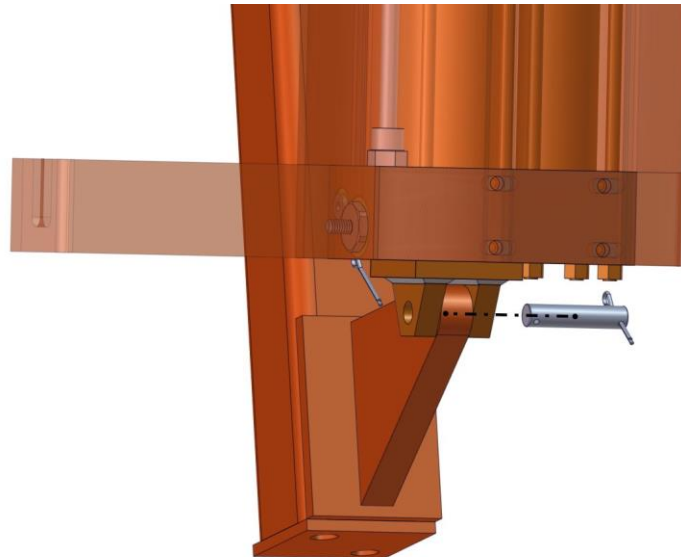


MOUNTING CYLINDER TO T-FRAME

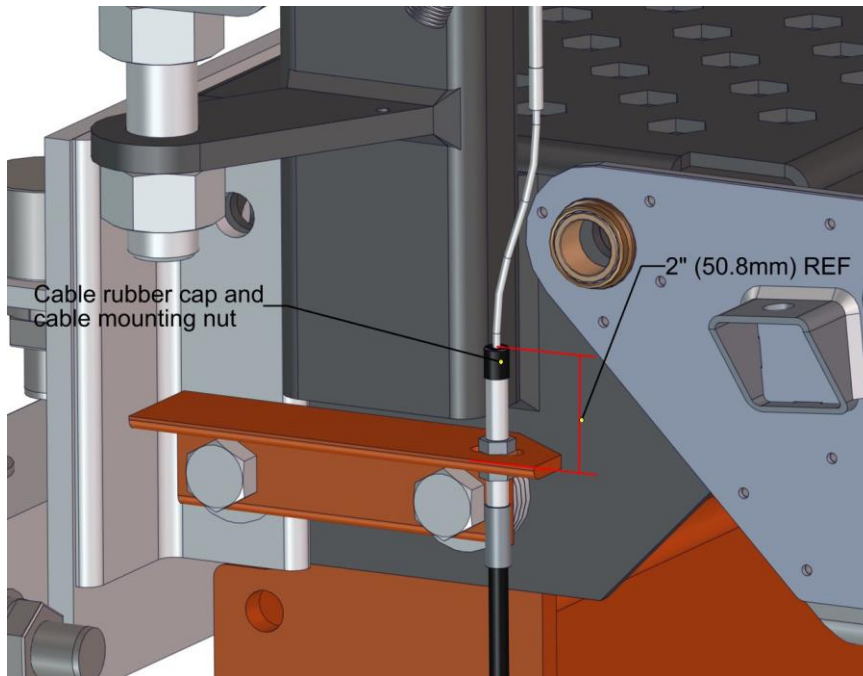


- Orient cylinder mechanism as shown.
- Position clevis of cylinder onto lug of T-frame.
- Insert mounting pin and cotter pin.

Note: Orientation of cylinder mechanism is important based on cable attachment to threaded valve plunger.



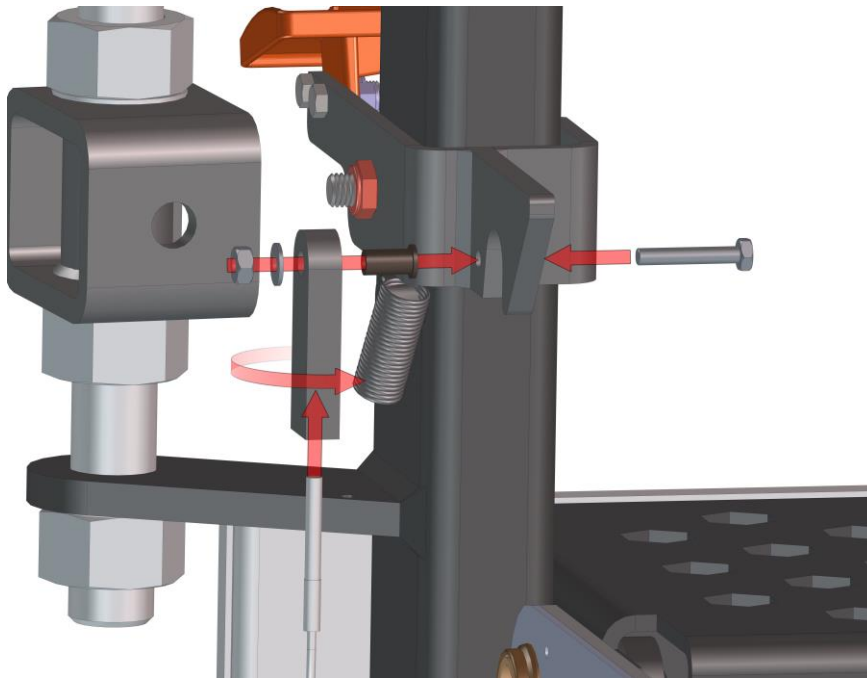
CYLINDER CABLE TO FOOTLOCK



- In order to attach external threaded end of cable to bracket, remove cable's rubber cap and upper mounting nut.
- Slide through slot of bracket and reattach nut and rubber cap.
- Loosely tighten cable nuts to bracket.

Note: Cable nuts to be securely tightened after attaching cable end to footlock.

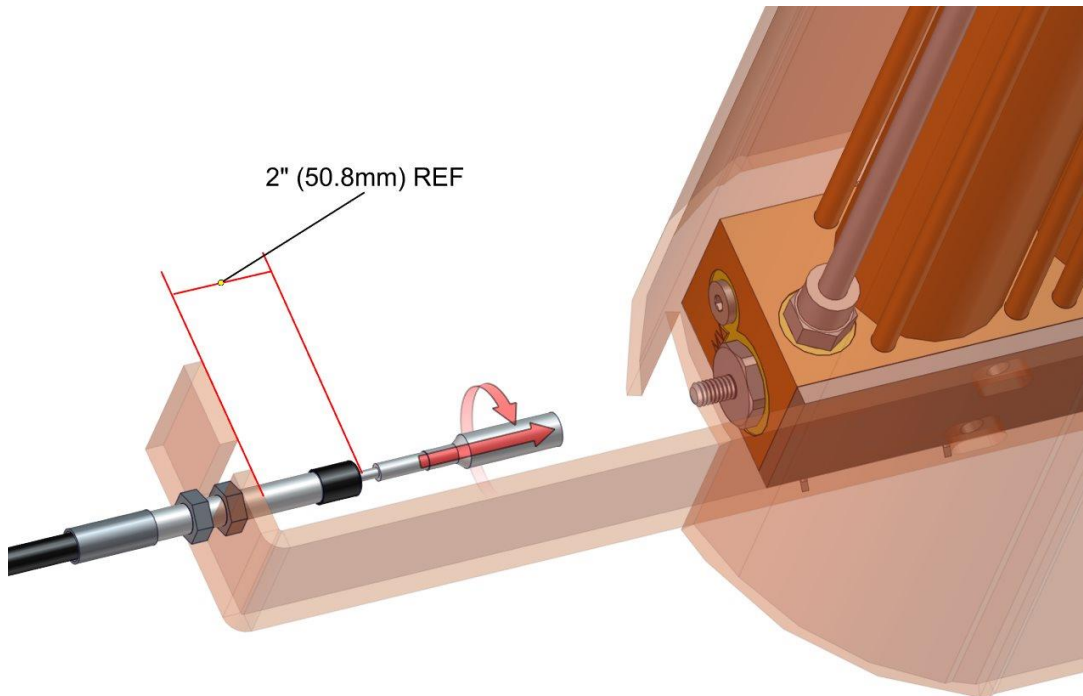
CYLINDER CABLE TO FOOTLOCK



- Attach cable lug to external threaded end of cable.
- Orient components and hardware as shown. Bolt head should be on u-body side of footlock. Bushing head should be located against footlock.
- Hardware consists of $\frac{1}{4}$ " x $1\frac{1}{2}$ " stainless steel bolts, $\frac{1}{4}$ " stainless steel lock nut, and $\frac{1}{4}$ " stainless steel flat washer.
- Securely tighten hardware.

Note: Orientation of bolt and bushing is important.

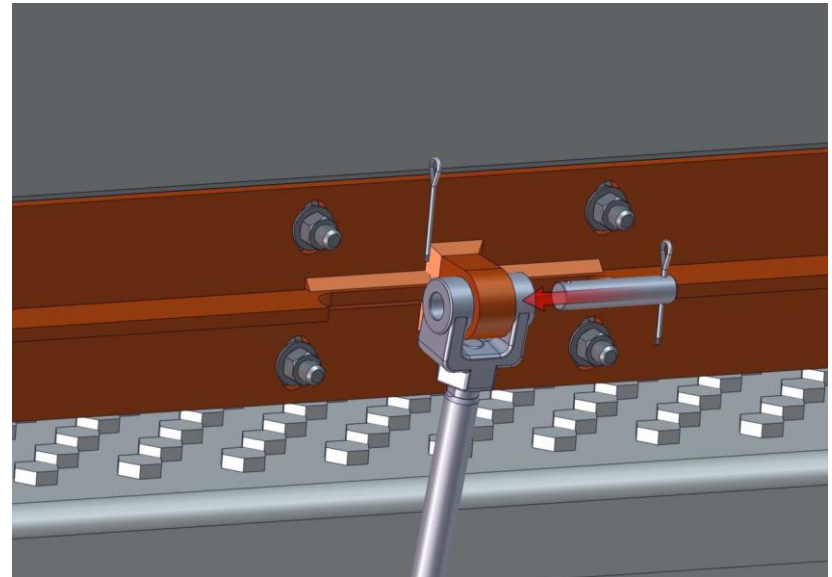
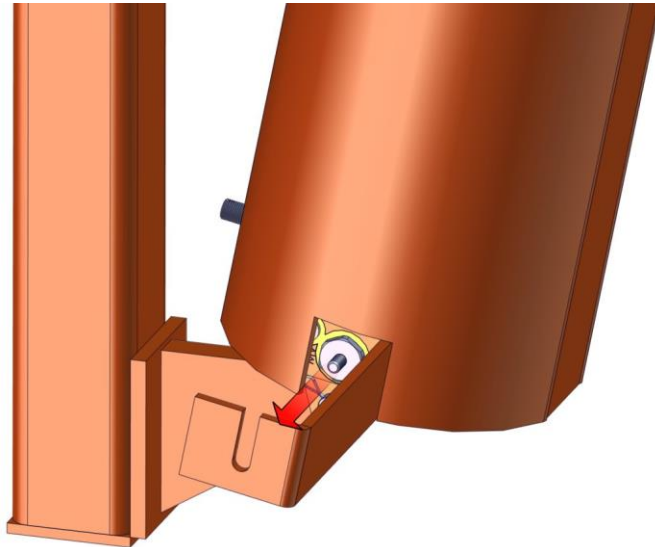
CYLINDER CABLE TO CYLINDER



- Position internal threaded end of cable as shown.
- Secure cable to bracket using nuts on cable.
- Secure internal threaded end of cable to threaded valve plunger of cylinder.
- Loosely tighten cable mounting nuts.

Note: Cable nuts to be securely tightened after attaching cable end to footlock.

MOUNTING CYLINDER TO UNDERSLUNG

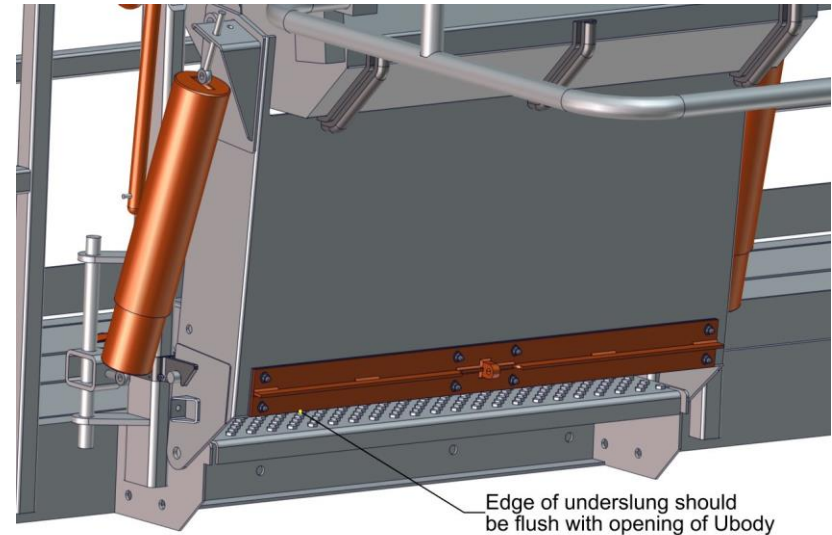
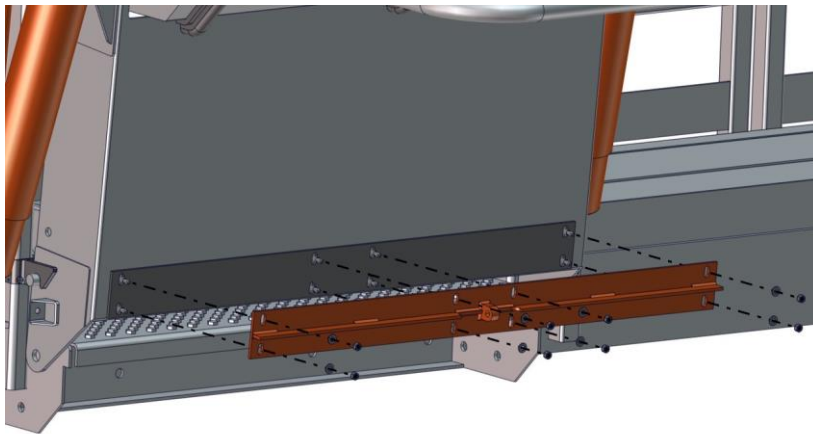


- In order to attach the rod end clevis to the underslung, pull the threaded valve plunger allowing the rod to extend.
- Position rod end clevis onto lug of underslung mounting lug.
- Insert mounting pin and cotter pin.

UNDERSLUNG MOUNT

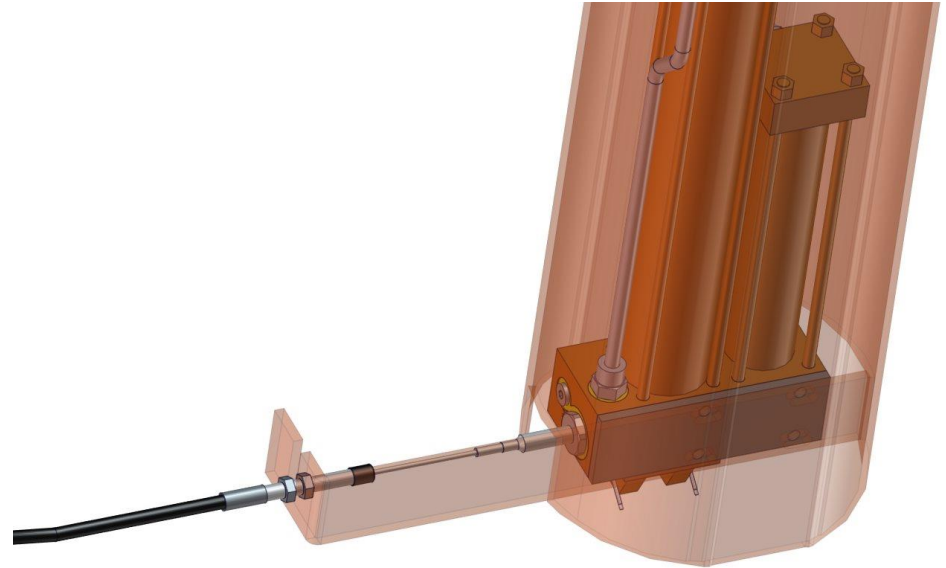
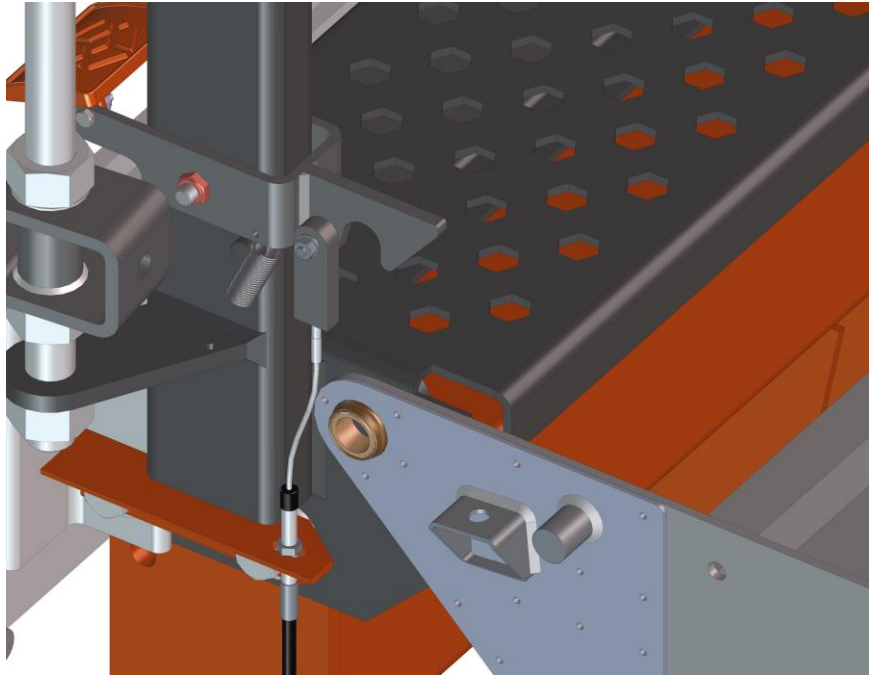
- For retrofit systems, gangway u-bodies will need to be modified.
- New systems may already have these holes.
- Dimensionally transfer the holes from underslung to the u-body (or locate and match drill).
- Underslung should be flush with the edge of the u-body closest to the basetread and centered on the width of the u-body.
- Drill holes $\varnothing 0.5"$ (12.5mm) in u-body.

Note: Retrofit gangways may have square tubing stiffener inside u-body. If hole pattern interferes with tubing, drill holes through square tubing and use longer bolts provided.



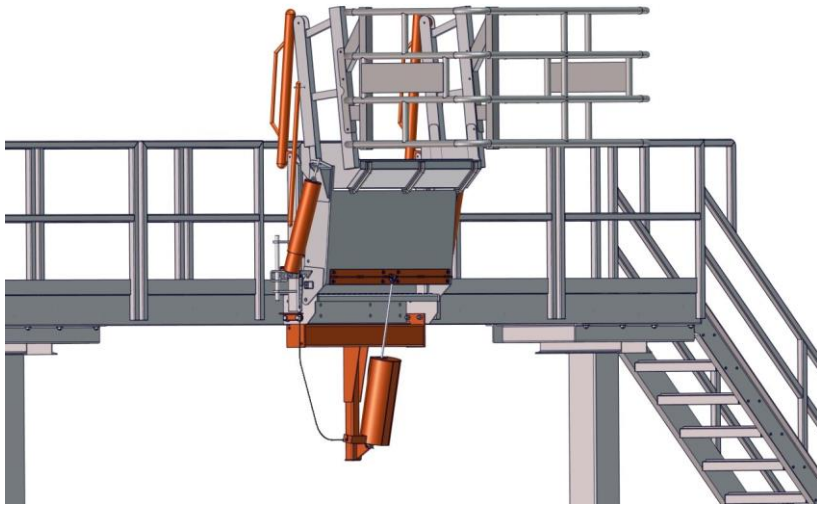
- UHMW Isolation pad should be positioned between the u-body and the underslung mount.
- Bolt should be oriented with head inside of the u-body and the nuts and washers on the underslung mount. Use 3/8" stainless steel hardware provided in kit.
- Securely tighten all hardware.

CYLINDER CABLE ADJUSTMENT

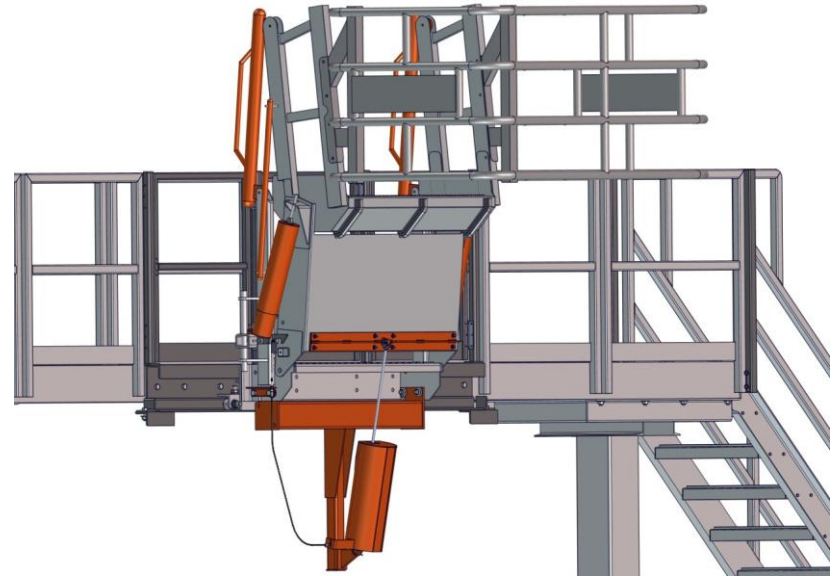


- Adjust cable mounting nuts to create slack in internal moveable cable between the angle and footlock.
- Securely tighten cable mounting nuts.

SafeLok ASSEMBLY



For face mounted gangways 24, 36, 48 sizes.



For tracking gangways 24, 36, 48 sizes.

OPERATION



WARNING! READ CAREFULLY AND UNDERSTAND ALL GANGWAY AND G4 GANGWAY/CAGE LOCK-DOWN ASSEMBLY OPERATION INSTRUCTIONS BEFORE STARTING OPERATING. FAILURE TO FOLLOW ALL INSTRUCTIONS MAY RESULT IN DEATH OR SERIOUS PERSONAL INJURY.

IMPORTANT

- Refer to gangway owner's manual.



- CAUTION!
 - When releasing footlock, keep hands away from pivoting parts.
 - When lowering gangway, keep both hands on top handrails.
 - Gangway must be supported on vehicle or by chain stops. Do not use cage as a means of supporting the gangway. This can damage and/or break the cage.
 - Before using gangway, verify that the chain stops on both sides of the gangway are set.
 - When raising gangway, grab the pull-up rope securely.

NOTE: For lock down cylinder, minimum temperature range is -20 degrees F (-28 degrees C), maximum temperature is 200 degrees F (93 degrees C).

Failure to comply with these cautions could result in personal injury or damage to equipment.

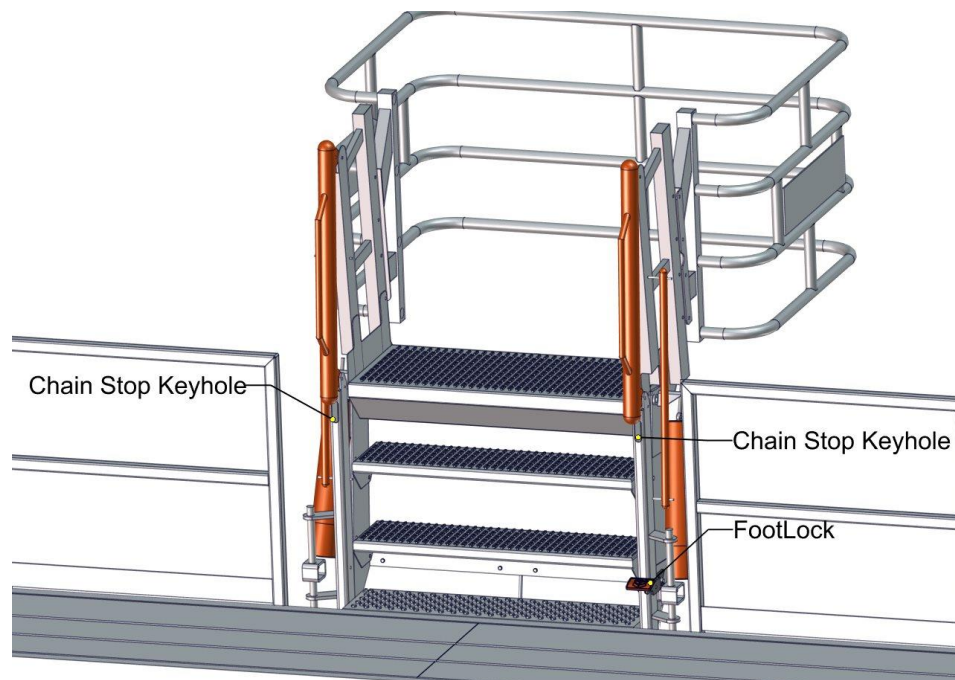
OPERATION

To Lower Gangway:

- Check area around gangway to ensure that objects and equipment are clear of articulating path of gangway.
- Release gangway locking mechanism (foot lock) at base of upright.
- Slowly lower the gangway using handles on top handrail. Lower unit until gangway end tread is approximately level with surface to be accessed.
- Adjust chain stops and lock into chain stop keyholes on both uprights.

To Raise Gangway

- Check area around gangway to ensure that objects and equipment are clear of articulating path of gangway.
- Raise gangway by depressing and **holding** locking mechanism (foot lock) at base of upright and pulling up on the nylon pull-up rope attached to the right side of the gangway body.
- Locking mechanism (foot lock) will engage when gangway reaches stored position.
- Verify that foot lock is fully engaged when storing.



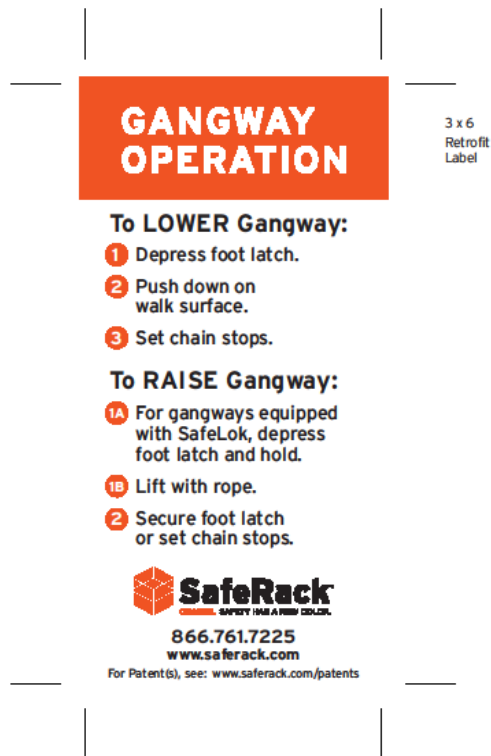
OPERATION

FOR FIELD LOCK DOWN RETROFIT

(Prepare current label surface area for new label by creating a clean dry surface)

Step 1: Remove **GANGWAY OPERATION** label from this sheet

Step 2: Place directly over the existing
GANGWAY OPERATION label located on gangway handrail.



FOR RETROFIT UNITS:

REPLACE "GANGWAY OPERATION" LABEL ON EXISTING GANGWAY TOPRAIL WITH NEW LABEL (SHOWN HERE) SUPPLIED IN SAFELOK KIT.

FOLLOW STEPS AS SHOWN.