



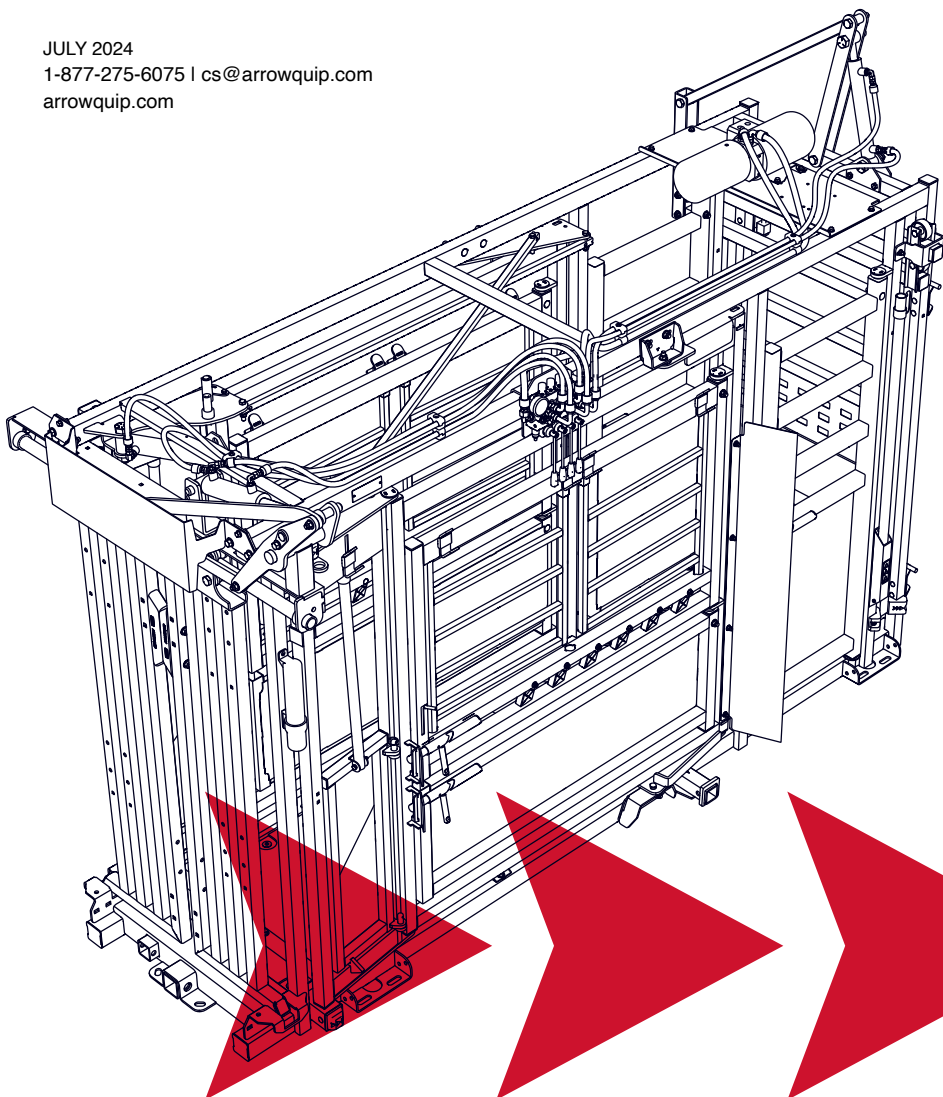
PRODUCT MANUAL

105 SERIES POWERLOCK

JULY 2024

1-877-275-6075 | cs@arrowquip.com

arrowquip.com



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PLEASE FOLLOW ALL SAFETY INSTRUCTIONS PROVIDED IN THIS MANUAL BEFORE OPERATION. ARROWQUIP DOES NOT ACCEPT RESPONSIBILITY FOR ANY ACCIDENTS OR INJURY WHEN THIS SAFETY MANUAL HAS NOT BEEN READ IN FULL AND KEPT WITH THE PRODUCT AT ALL TIMES. OPERATORS OF THIS PRODUCT TAKE AND ACCEPT RESPONSIBILITY FOR ANY HARM OR INJURY TO THE ANIMAL OR OPERATOR WHEN IT PERTAINS TO HOW THE EQUIPMENT IS USED AND MAINTAINED.

Please keep this manual for frequent reference and to pass on to new users or owners.

SAFETY PRECAUTIONS

PLEASE FOLLOW ALL SAFETY INSTRUCTIONS PROVIDED IN THIS MANUAL BEFORE OPERATION. ARROWQUIP DOES NOT ACCEPT RESPONSIBILITY FOR ANY ACCIDENTS OR INJURY WHEN THIS SAFETY MANUAL HAS NOT BEEN READ IN FULL AND KEPT WITH THE PRODUCT AT ALL TIMES. ANY HARM TO THE ANIMAL OR INJURY TO THE OPERATOR WHICH OCCURS DUE TO HOW THE PRODUCT IS OPERATED, OR RESULTING FROM A LACK OF SAFETY PRECAUTIONS ARE THE SOLE RESPONSIBILITY OF THE OPERATOR.

All farm machinery and equipment are potentially dangerous. Careless use of any Arrowquip livestock equipment may cause injury or damage to persons, cattle, or property. Arrowquip has taken precautions in the design and manufacturing of this product to ensure that it is safe and user-friendly. Therefore, the user must assume all responsibility and risk associated with the possession and use of the cattle squeeze chute.

SAFETY GUARANTEE

Arrowquip is committed to creating safe cattle management experiences. With this commitment to safety, in the event any purchaser of Arrowquip equipment is **physically injured while operating the equipment AND requires medical treatment**, Arrowquip will provide a **full refund** of the equipment purchase price and the purchaser will be allowed to keep the equipment. Equipment must be warranty-registered, and the purchaser must read and practice the contents and recommended maintenance and procedures outlined herein to be eligible.

Arrowquip also commits to repair or replace any part of the equipment that is defective, malfunctions or otherwise falls under normal use and inside the equipment's warranty terms. If the equipment requires replacement, it shall be replaced with an identical model or a newer model of the equipment. For further details, visit arrowquip.com/promise.



WARNING: READ BELOW BEFORE OPERATION

Ensure the operator understands the contents of this manual before using the cattle squeeze chute.

1. Do not wear loose-fitted clothing.
2. Ensure the cattle squeeze chute is on a firm, level, dry surface that is free of rocks and other trip hazards. A level concrete pad flush with the ground and with the chute bolted to the concrete is strongly recommended.
3. Do not enter the vet cage until the animal is secured in the head gate and the rump bar has been placed so that the cow cannot back up.
4. Do not stand in front of the head gate while operator is moving the cattle through the squeeze chute.
5. **DO NOT ALLOW CHILDREN UNDER THE AGE OF 18 NEAR AN OPERATING MACHINE.**
6. Follow safe cattle handling procedures in other areas of the yard so that cattle are more docile in the chute.
7. Do not make any modifications to Arrowquip equipment. Non-factory modifications to the equipment can reduce the safety for the operator & livestock, and void warranty.
8. **DO NOT ALLOW CHILDREN UNDER THE AGE OF 18 TO USE THE HYDRAULIC EQUIPMENT.**
9. Do not operate hydraulics while operators are working with the cattle in the chute or are touching the chute. Reaching out or into the chute while hydraulics are in operation can result in serious injury.
10. Please ensure that all hydraulic hoses and electrical leads are out of the way and safely positioned before moving cattle or using the chute.
11. Keep a distance of more than an arm's length from the hydraulic chute while hydraulics are in operation.

RISK ASSESSMENT

Conduct a risk assessment on procedures regarding the operation of an Arrowquip hydraulic squeeze chute, establishing a safe work procedure.

1. Ensure all users of the equipment have been inducted and comply with safe working procedures.
2. Please ensure that the hydraulic chute is secured on firm ground.
3. Please ensure that there are no hazardous hydraulic cords or large objects within or around the chute where cattle and operator will be.
4. Please ensure that all hydraulics work properly before putting cattle through the chute.
5. Please make sure that all hydraulic hoses are properly secured to the hydraulic pump or tractor.
6. Ensure that the hydraulic controls are functioning properly. Specifically ensure that the adjustable side mechanism and the head gate are adjusting smoothly.
7. If hydraulics do not function properly when testing the equipment, DO NOT put cattle through the chute.
8. Ensure that access gates are closed securely before running cattle through the chute.
9. Some chemicals and medicines can damage powder coat. Take all precautions and wash after use.
10. Make sure your chute has been cleared of ALL livestock after use.

POWERLOCK HYDRAULIC SQUEEZE CHUTE ASSEMBLY

Your chute will come fully assembled with the options you have ordered already fitted to the chute. However, it will be necessary to connect the hydraulic chute to a power source. The following guide will assist you in properly setting up your chute for use.



WARNING: DO NOT ATTEMPT TO CONNECT THE ELECTRIC POWER PACKS IF YOU ARE NOT A CERTIFIED ELECTRICIAN.

ELECTRIC POWER PACK

110V Electric Power Pack



ALERT: MUST BE CONNECTED BY A CERTIFIED ELECTRICIAN. CONTACT 1-877-275-6075 WITH ANY QUESTIONS.

- 1** Marret P1 to Line 1 (Positive)
- 2** Marret T4 (Red), T2 (White) and T8 (Yellow) to Line 2 (Negative)
- 3** Marret T3, P2 and T5
 - a. Connect the hydraulic chute to a 110V power source.
 - b. Proceed to “Operating The Powerlock Hydraulic Chute”

OPERATING THE POWERLOCK CATTLE CHUTE



ENSURE ALL CHUTE FUNCTIONS AND ADD-ONS ARE WORKING PROPERLY BEFORE OPERATING.

- 1** Ensure the head gate, tail gate, and all access points are closed before the animal enters the chute.
- 2** Open tail gate for the animal to enter the squeeze chute enclosure.
- 3** Close tail gate.

- 4** Open head gate slightly more than the neck size of the animal to tempt the animal to stick its head through the head gate. When neck of animal is in the correct position, quickly close the head gate securely on the animal's neck.
- 5** If required, side squeeze animal and engage head restraint to restrain further movement.
- 6** If the animal applies excessive pulling pressure on head gate, it is recommended to use the anti-backing bar behind cattle rump.



CONFIRM ANIMAL IS SECURELY HELD BEFORE CARRYING OUT ANY HUSBANDRY WORK.

POWER FAILURE

If you should experience a loss of power while you have an animal in the chute, please follow the instructions below:

- 1** Operate the hydraulic levers to allow fluid to flow out of the cylinders and release the pressure on the animal.
- 2** With the levers engaged, pull on the Head Gate Door / Squeeze Panel to open the door if necessary.
- 3** Check to make sure that the animal is free of any injury.
- 4** Release the animal from the chute.
- 5** Review the cause for power failure and troubleshoot to restore power.
- 6** See start-up procedure once power is restored.

RECOMMENDED MAINTENANCE

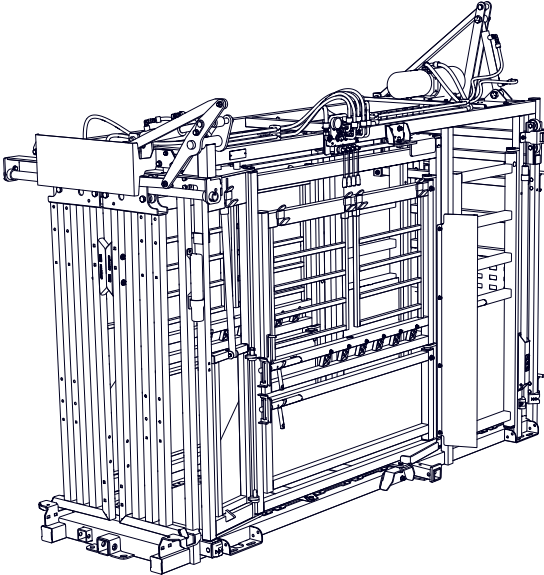
All Arrowquip Products are made with precision parts to require minimal maintenance. However, regular maintenance will keep your equipment running smoothly and safely.

MAINTENANCE SAFETY

1. Ensure the area is clear of bystanders, especially children, when doing any maintenance or repair on the hydraulic squeeze chute.
2. Keep all body parts, including hair, hands, feet, etc., away from the machine when hydraulics are in operation.
3. Before carrying out any maintenance on the squeeze chute, please ensure there are no livestock in the chute.
4. **DO NOT** repair the chute or go into the chute when hydraulics are in operation. This can result in injury to the worker. Unplug the motor before performing any necessary repairs or inspection.

REGULAR MAINTENANCE

- Inspect the entire unit. Ensure all moving components are free of debris and functioning properly. Use proper cleaning and troubleshooting steps, if necessary.
- Grease cylinders and zerks.



- Lubricate slam latches and door hinges with WD-40 Dry Lube.
- Clean bottom head gate door track to prevent dirt-build-up.
- Clean the chute floor. Excess build-up of manure or dirt inside chute can cause the squeeze and head gate to malfunction.
- Check mechanism pivot bolts for wear. Lubricate with WD-40 Dry Lube as necessary.

HYDRAULIC MAINTENANCE

If you have any issues with your hydraulic chute, contact Arrowquip Client Care at 1-877-275-6075.

1. Replace oil annually, or more frequently as necessary.
 - a. Dirty oil or oil that has 0.05% of water in it can be catastrophic for hydraulic systems. Replace oil frequently to prevent damage to your hydraulic jacks and keep them working safely and reliably.

POWER PACK MAINTENANCE

Refer to the Power Pack manual for detailed maintenance instructions.



WARNING: DO NOT ATTEMPT TO CONNECT THE ELECTRIC POWER PACKS IF YOU ARE NOT A CERTIFIED ELECTRICIAN.

TROUBLESHOOTING GUIDE

Before doing ANY work or troubleshooting on your hydraulic chute, contact Arrowquip Client Care at 1-877-275-6075.

SQUEEZE CHUTE

1. To ensure proper operation make sure head gate is situated on level ground or base.
2. Make sure head gate door tracks are free of debris.
3. Keep floors clean. Excess build-up of manure or dirt inside chute can cause the squeeze and head gate to malfunction.
4. Lubricate slam latches and pivot points with WD-40 Dry Lube.

ISSUES WITH ELECTRIC POWER PACK

Contact your Electrician for assistance with any Power Pack issues.

For additional information, contact Arrowquip Client Care at 1-877-275-6075.

RECOMMENDED USE

Powerlock 105 Series Standard & Deluxe Vet Models: 10 Years or 25,000 Total Head of Cattle.

WARRANTY

Your product must be registered to claim warranty, and to ensure that Arrowquip has the required information to contact you in the event of a product or part recall. Any owner who fails to register their product warranty with Arrowquip through their Authorized Arrowquip Dealer voluntarily voids their warranty. Arrowquip will repair or replace products or parts of a product that prove defective due to manufacturer defect during the Warranty Period, at their sole discretion. This excludes defects resulting from normal wear and tear or product misuse.

NOTE: Any modification, in any fashion, to any Arrowquip equipment immediately voids the product warranty. This includes the parts contained therein.

E.g. If a modification is made to the squeeze mechanism in a squeeze chute, and the sternum bar is bent afterwards, warranty for the damaged part, the sternum bar, contained in the modified equipment, the squeeze chute, is void. In addition, any remaining warranty for the squeeze chute and other parts contained therein, including, but not limited to, the head gate, locking system, Q-Catch system, and rollers, is null and void.

REGISTER FOR WARRANTY NOW:

Online: arrowquip.com/product-registration

Phone: 1-877-275-6075 | **Email:** cs@arrowquip.com

ADD-ONS MAINTENANCE & SAFETY PRECAUTIONS

4TH GENERATION HEAD HOLDER

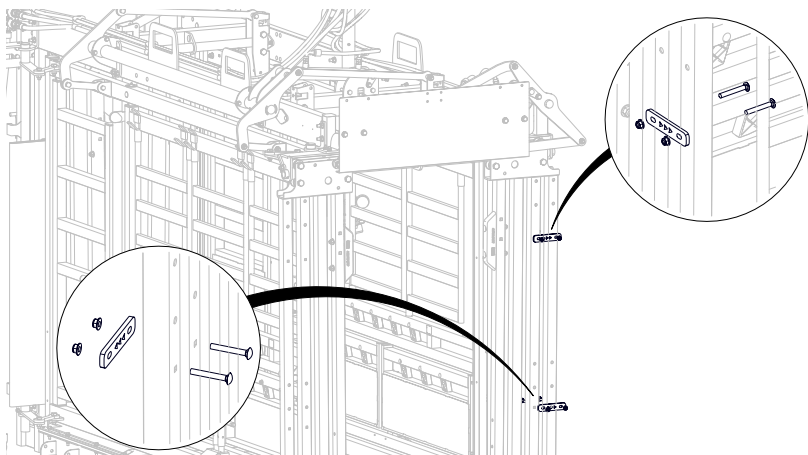
For complete information, read the Head Restraint manual.

REQUIREMENTS:

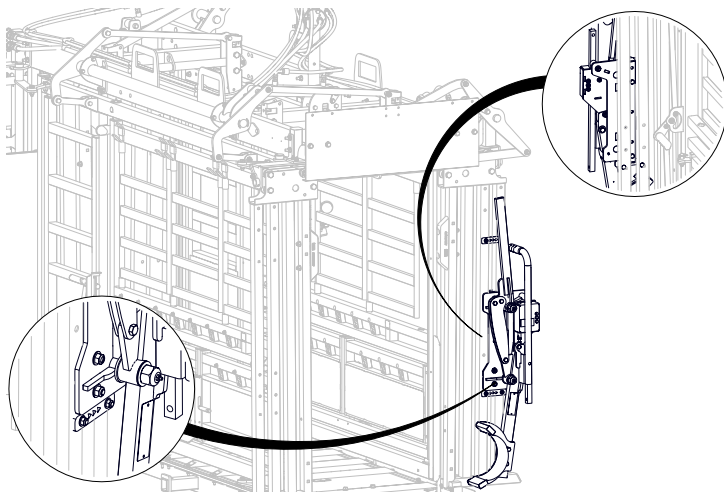
- 2 people
- 9/16" Wrench
- 3/4" Wrench

INSTALLATION

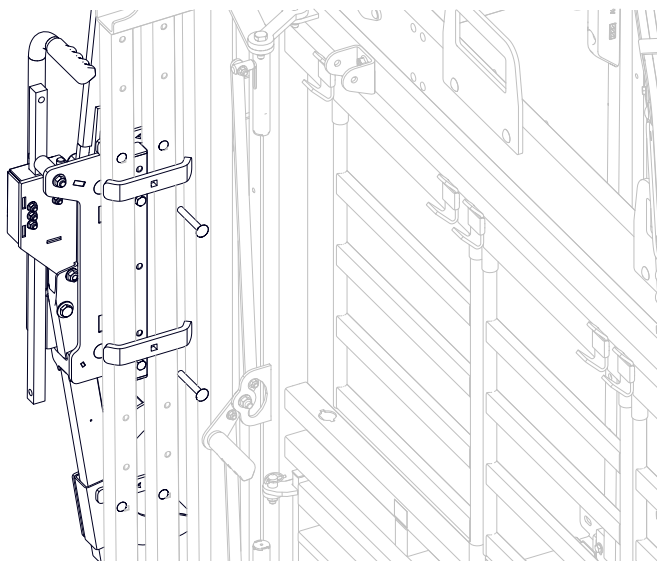
- 1** Install top and bottom stops to the slots in the Head Gate.



- 2** Align the rear Head Holder tube between the Head Gate rails, resting the Head Holder on the stop



3 Loosely fasten on rear brackets.



4 Lift the Head Holder to desired position and tighten brackets.

SAFETY PRECAUTIONS:

- ✓ Ensure the Head Holder remains open until required to hold the animal's head.

MAINTENANCE:

1. Add grease throughout grease nipples as needed.
2. Every 6 months:
 - a. Check bolts to ensure they are tightened properly.
 - b. Spray brake cleaner on a rag and wipe the lock box shaft while opening and closing the Head Holder.

LUG POSTS

Lug Posts are **NOT** compatible with Neck Extenders or Head Sweep

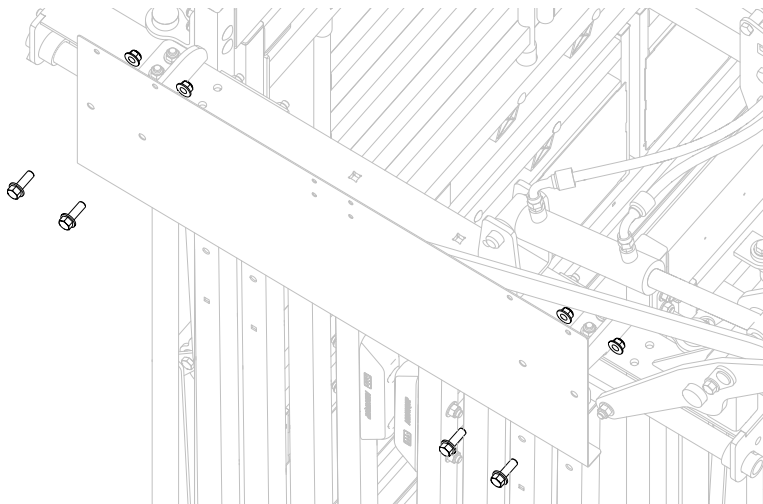
REQUIREMENTS:

- 2 people
- 9/16" Wrench
- 3/4" Wrench

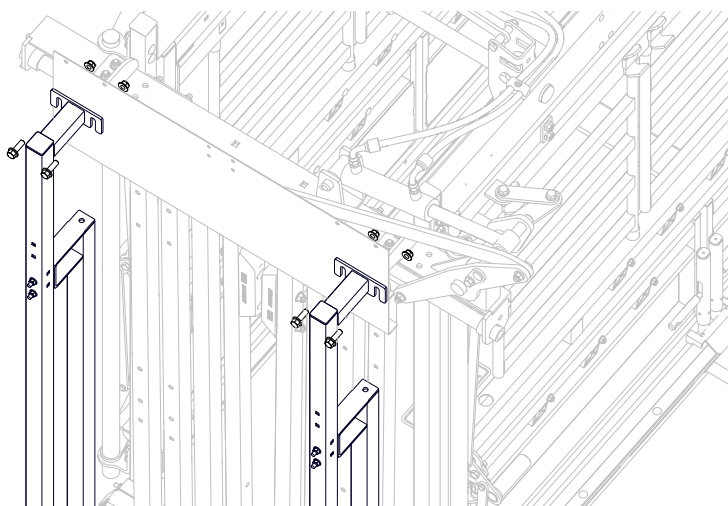
INSTALLATION:

NOTE: ONLY INSTALL ONE SIDE AT A TIME SO NAME SHIELD STAYS ON THE CHUTE

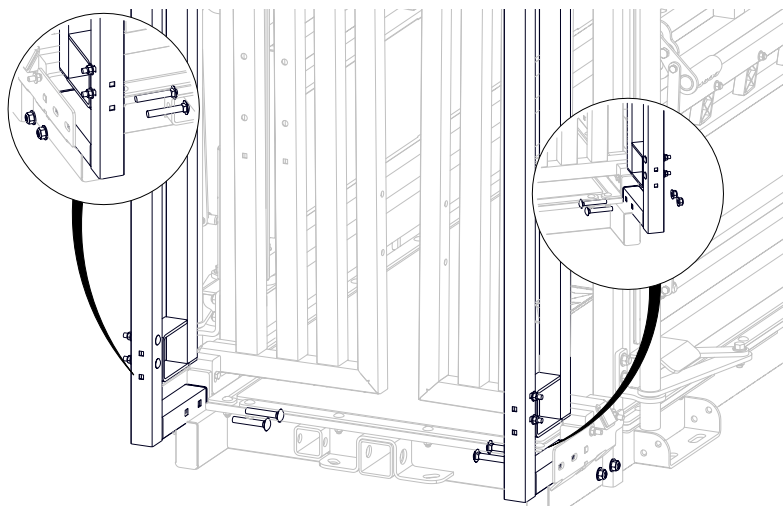
- 1** Remove bolts holding decal name shield.



- 2** Install lug post and top two bolts, do not tighten all the way.



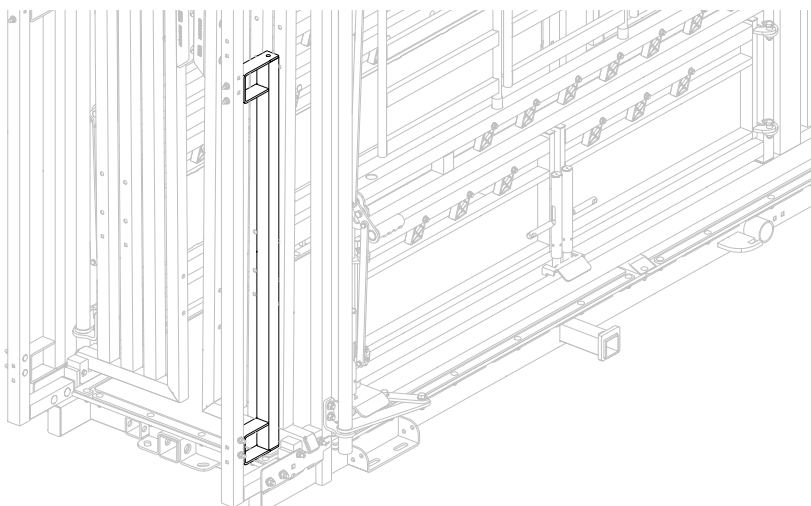
- 3** Align bottom of lug post and carriage head bolts with the head towards the inside of the chute.



- 4** Tighten down all 4 bolts.

- 5** Repeat steps to install the post on the opposite side.

NOTE: REMOVE FILLER POST BEFORE INSTALLING HEAD HOLDER



BALK GATE

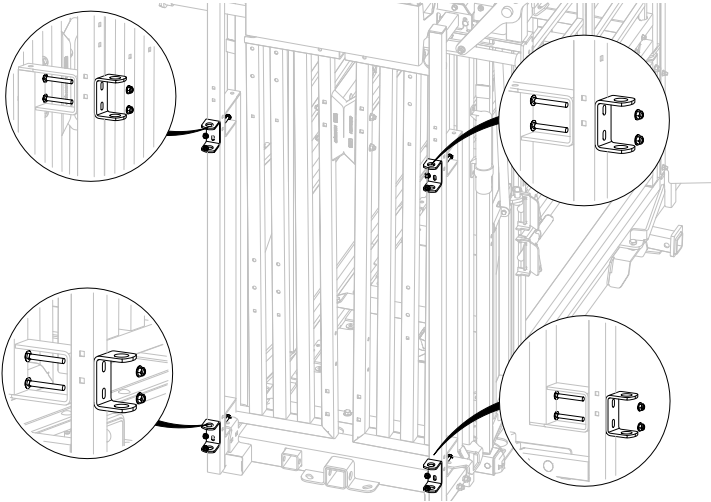
REQUIREMENTS:

- 2 People
- 3/4" wrench
- 1 1/8" wrench

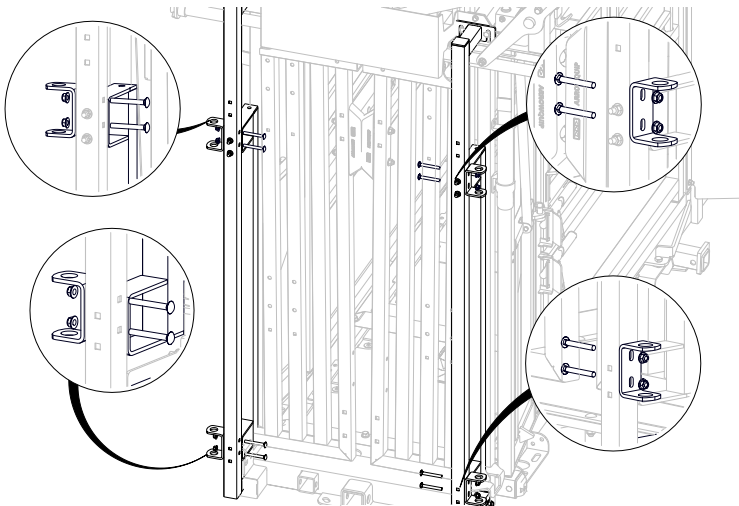
INSTALLATION:

NOTE: THE BALK GATE CANNOT BE INSTALLED WITHOUT LUG POSTS. FOR INSTALLATION, REFER TO LUG POST INSTALLATION.

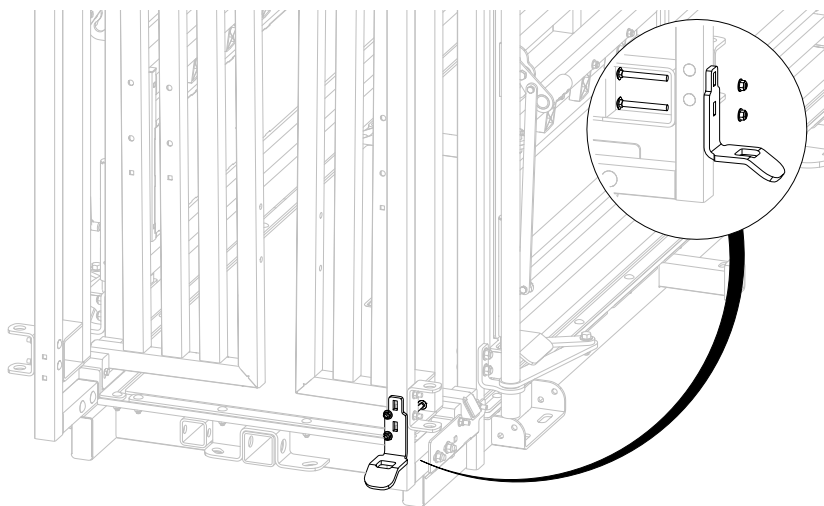
- 1** Remove front panel clips from front of Lug Posts.



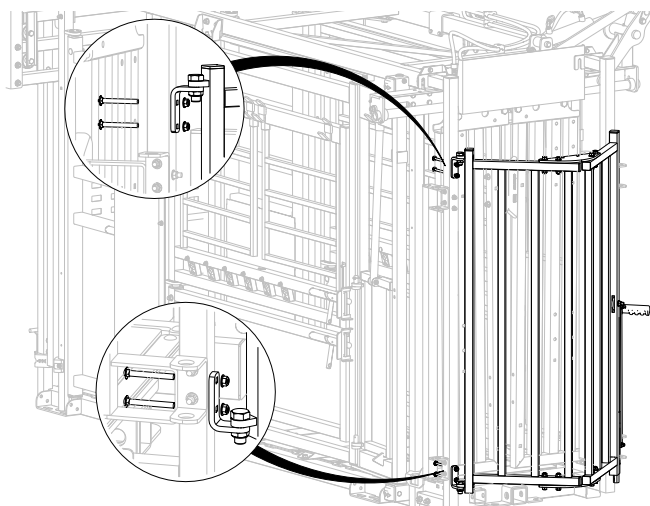
- 2** Attach panel clips to the side of Lug Posts.



- 3** Bolt on striker plate to the bottom of Lug Posts on opposite side.



- 4** Mount Balk Gate and hinges to the front of offside Lug Post.



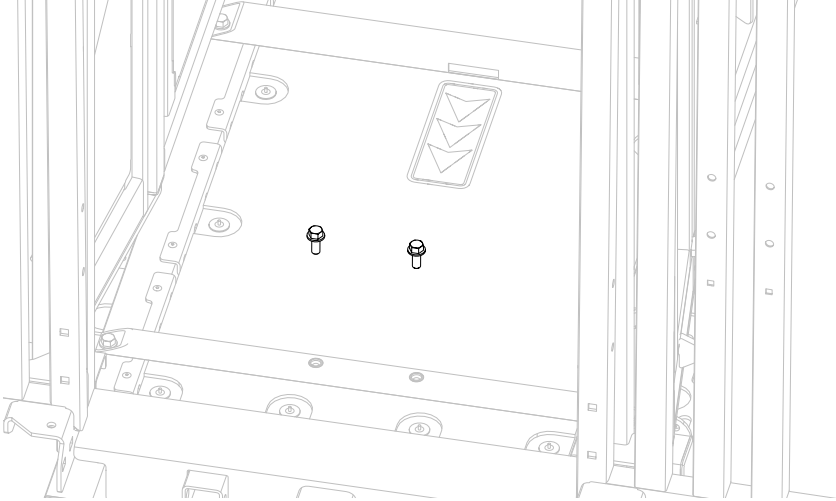
SHEETED STERNUM BAR

REQUIREMENTS:

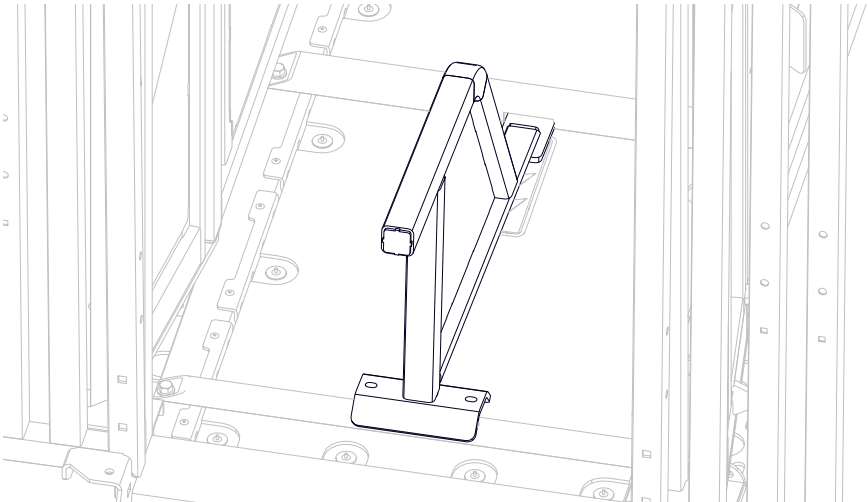
- 2 People
- $\frac{3}{4}$ " wrench
- 1 $\frac{1}{8}$ " wrench

INSTALLATION:

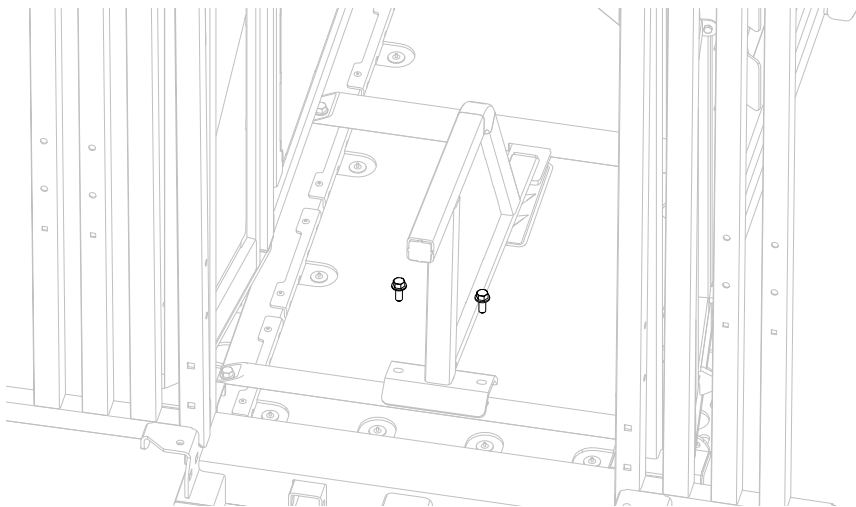
- 1** Remove stock bolts from hold down.



- 2** Insert back end of Sternum Bar into hold-down.



3 Bolt down the front of the Sternum Bar.



SAFETY CHECK:

- ✓ Ensure the Sternum Bar is installed correctly before running cattle through the chute.

SAFETY PRECAUTIONS:

- ✓ It is recommended you remove the sternum bar when working calves.

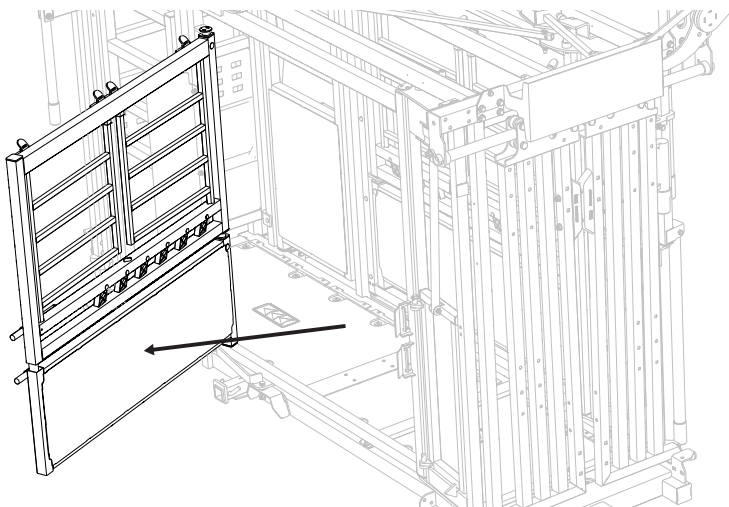
CALF RESTRAINER BAR

REQUIREMENTS:

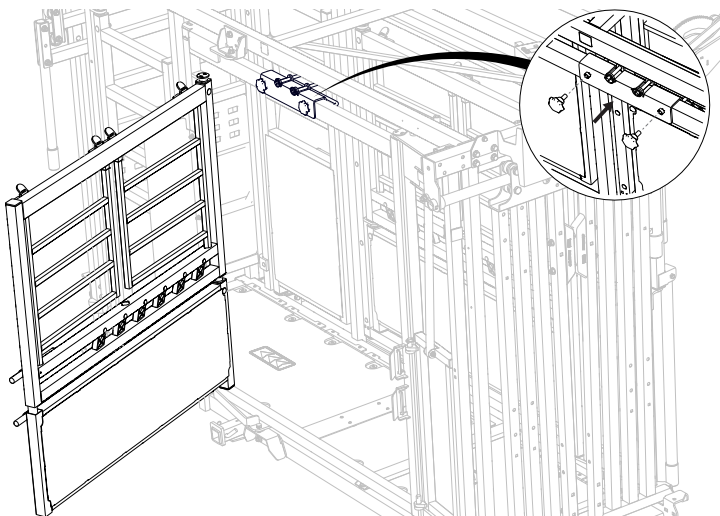
- 2 People
- 3/4" wrench
- 1 1/8" wrench

INSTALLATION:

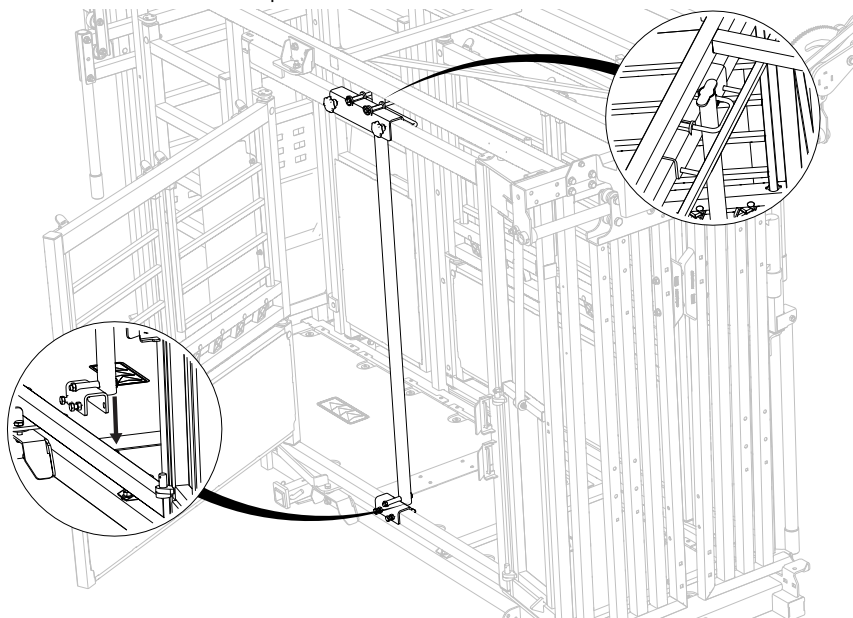
- 1** Open emergency doors.



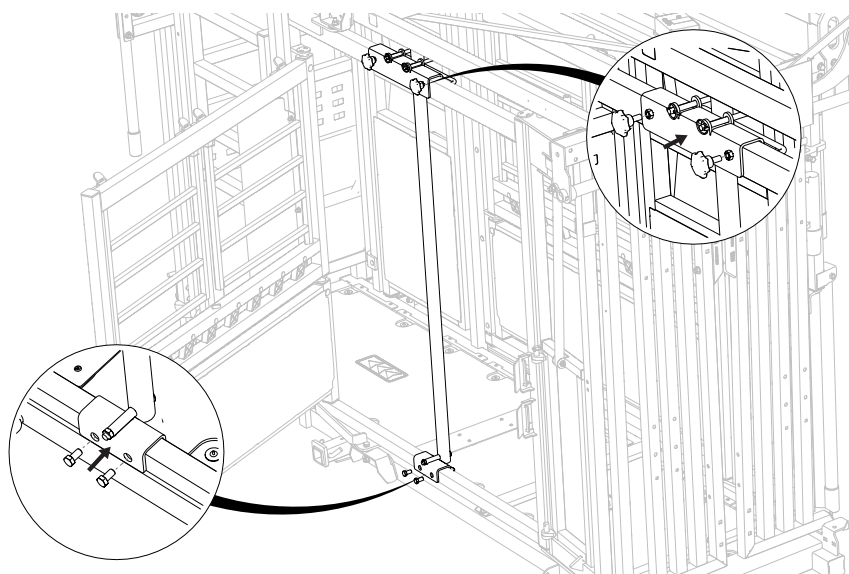
- 2** Mount on top bracket .



3 Insert Restrainer Bar into top bracket.



4 Set bottom bracket onto the squeeze frame.



WHEEL KIT

REQUIREMENTS

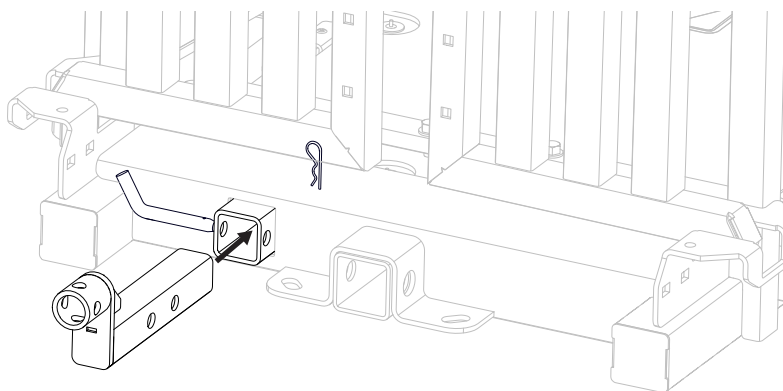
- 2 people
- Wheel kit

INSTALLATION:

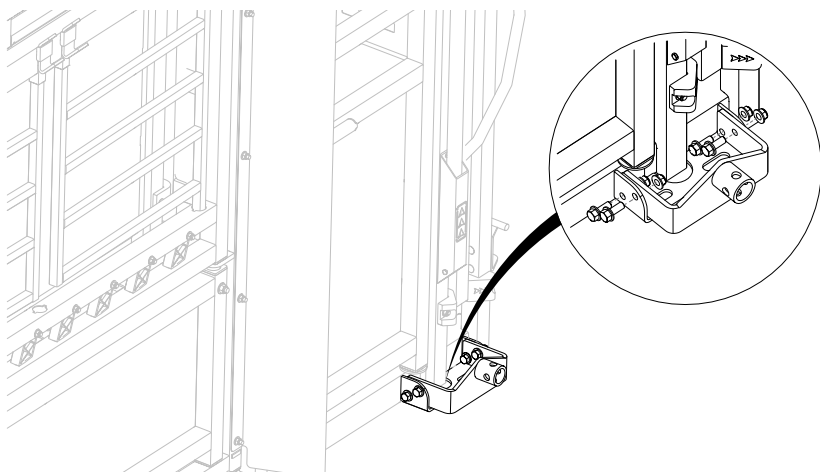
STOP

THE CHUTE MUST BE FLAT ON THE GROUND BEFORE PROCEEDING.

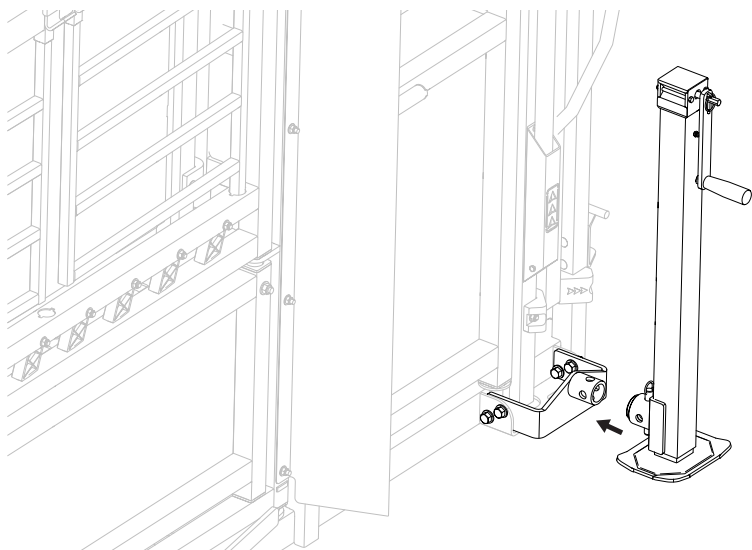
- 1** Mount the jack adaptor to the front of the chute.



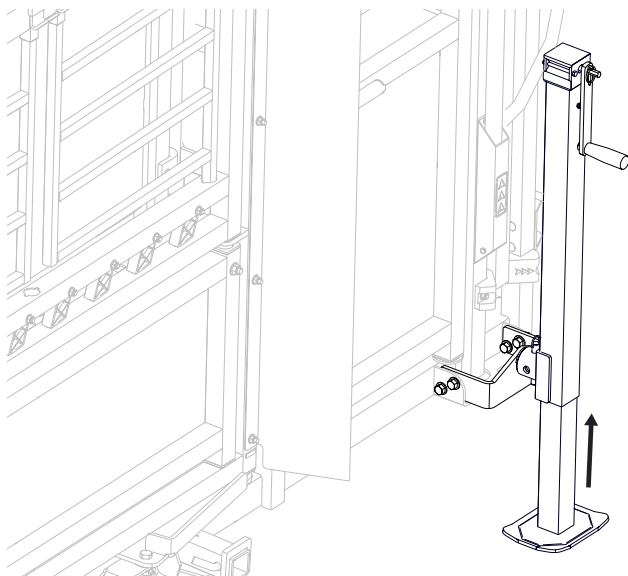
- 2** Bolt on mount brackets to the side of the chute.



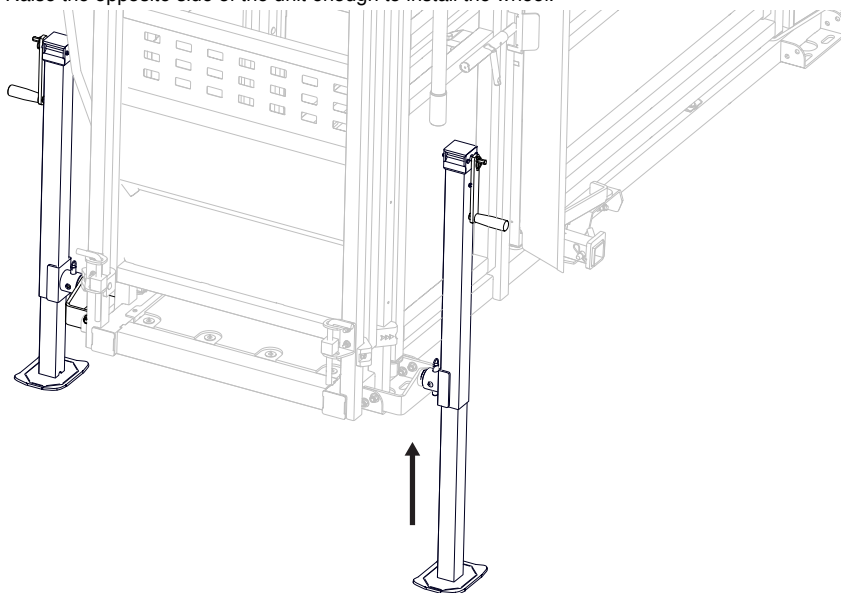
- 3** Install both jacks on the mounts located near the vet cage.



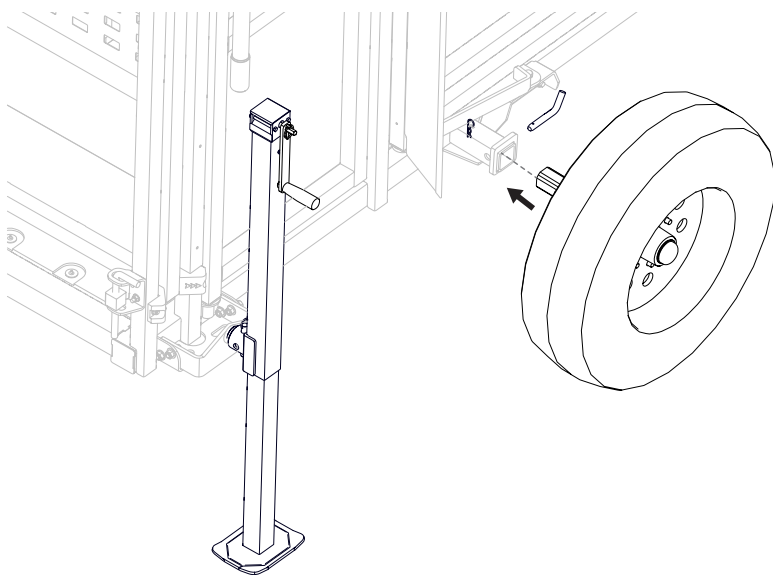
- 4** Using the jack, raise one side of the unit approx. 6" off the ground.



- 5** Raise the opposite side of the unit enough to install the wheel.

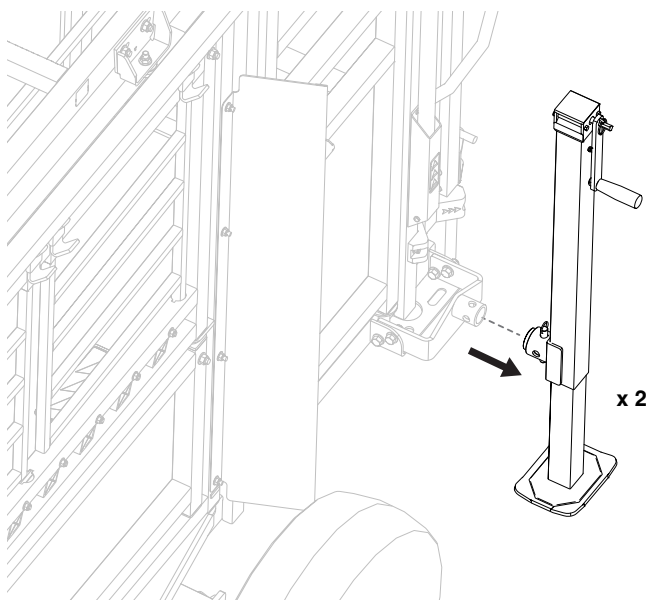


- 6** Install the wheel and secure with transport pins.

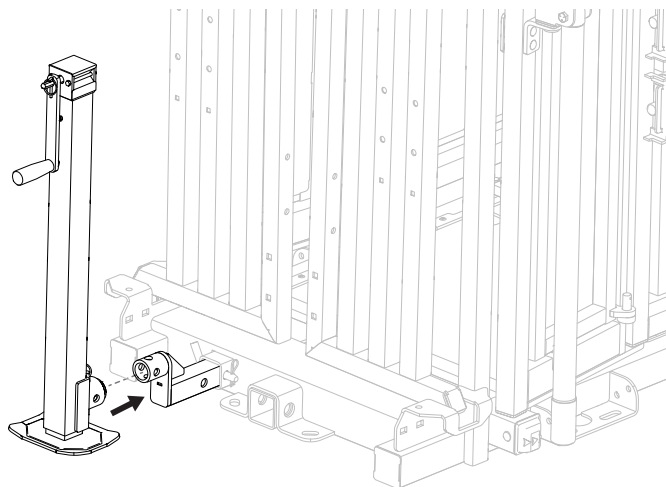


7 Repeat **STEPS 5 & 6** on other side.

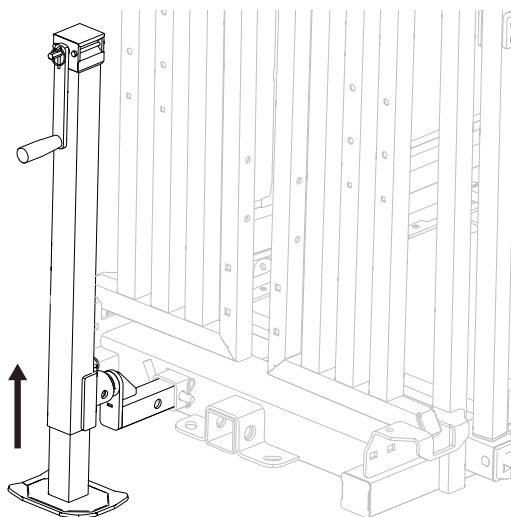
8 Remove both jacks.



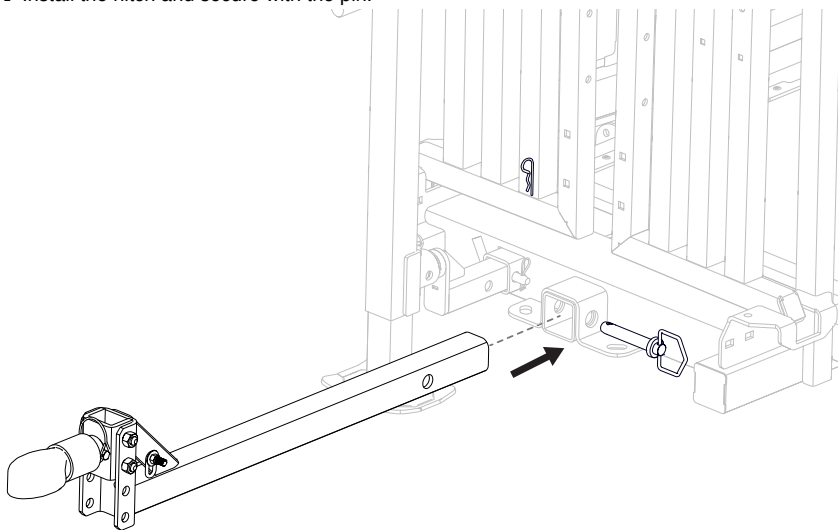
9 Attach the removable jack mount to the front of the chute and secure with the pin.



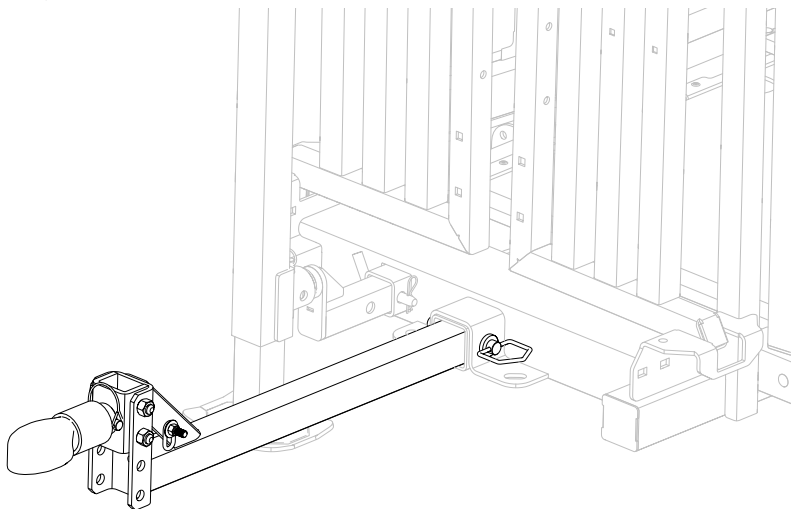
- 10** Using the front jack, raise the chute above the ground enough to install the hitch.



- 11** Install the hitch and secure with the pin.

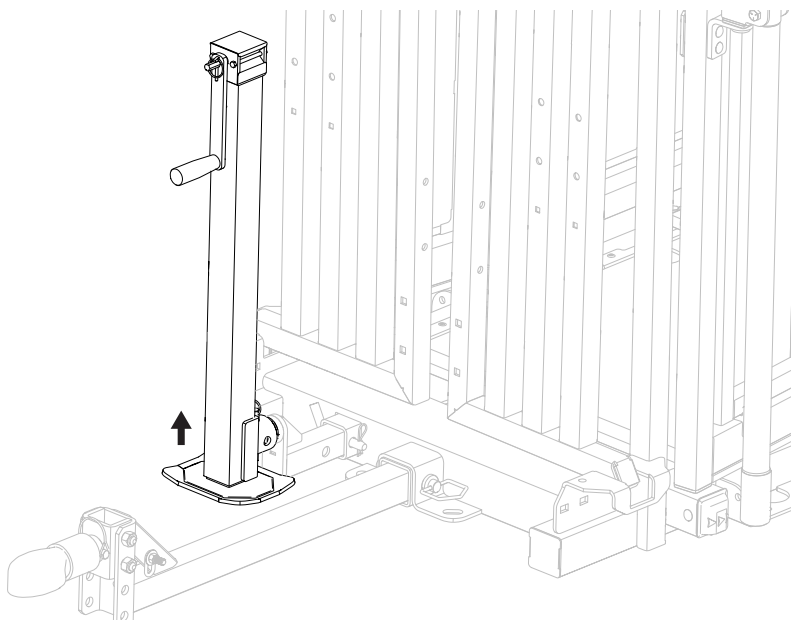


- 12** Attach the unit to the towing vehicle. Adjust the hitch to the proper position for the vehicle, if necessary.



NOTE: ENSURE SAFETY CHAINS PROVIDED HAVE BEEN ATTACHED TO THE UNIT.

- 13** Retract the front jack completely.



SAFETY CHECK:

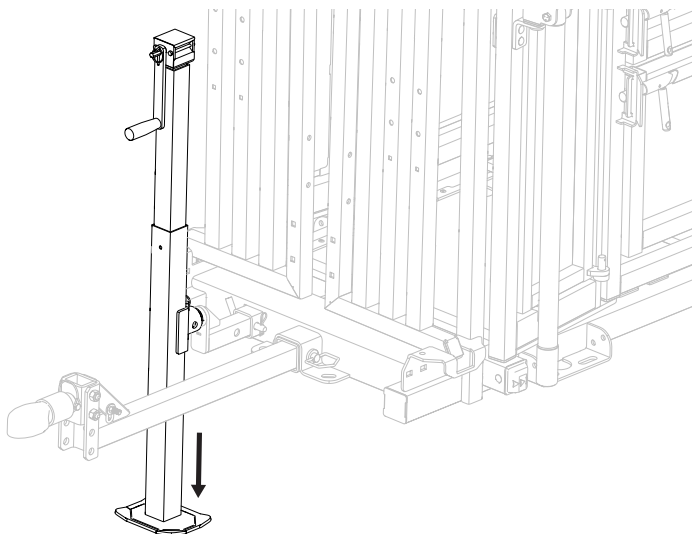


- ✓ Jacks are retracted completely.
- ✓ All doors and gates are shut.
- ✓ Tires are in good condition.

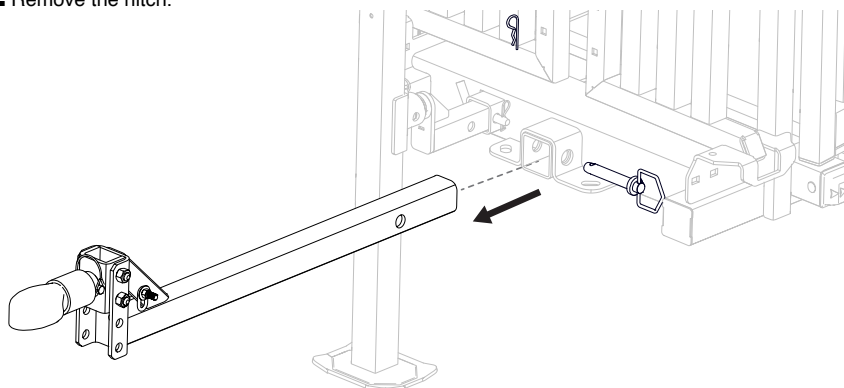
MAXIMUM SPEED: 50 KPH / 30 MPH

REMOVAL:

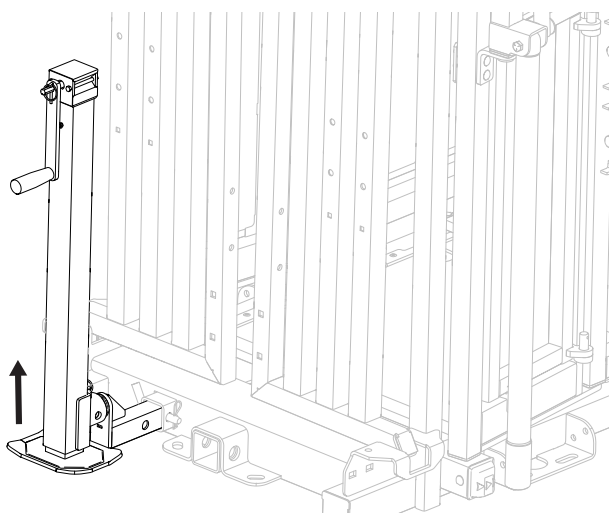
- 1** Lower the front jack to the ground and unhook the unit from the towing vehicle.



- 2** Remove the hitch.

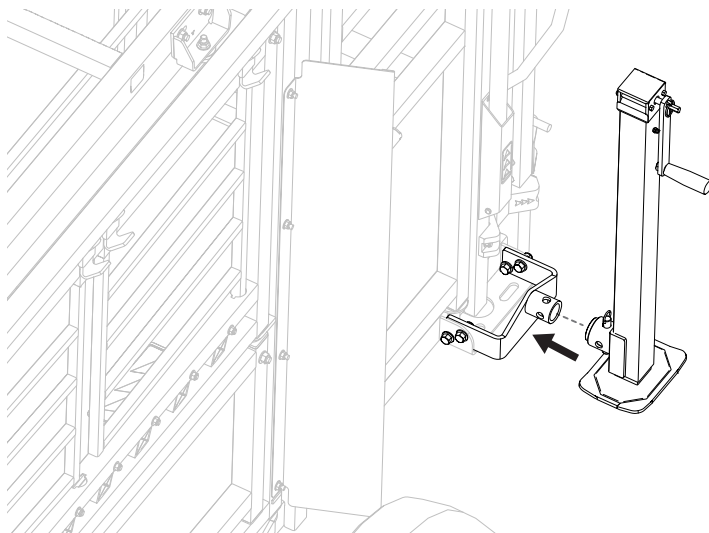


- 3** Using the front jack, lower the chute to the ground.

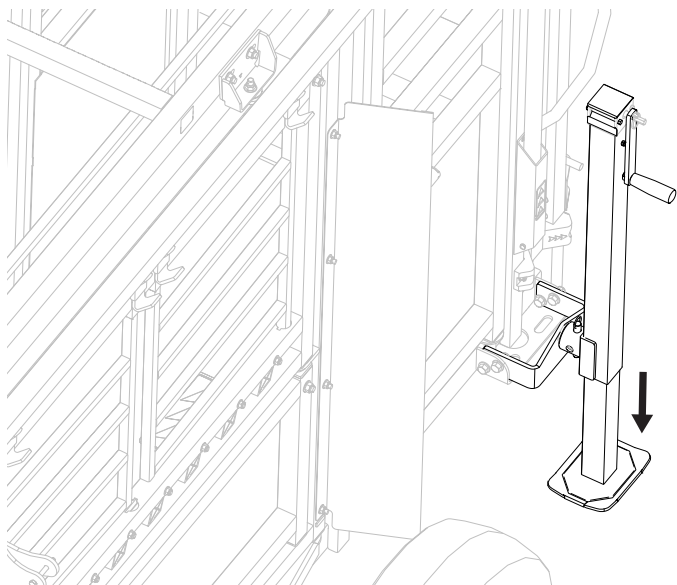


THE FRONT SECTION OF THE CHUTE MUST BE LYING FLAT ON THE GROUND BEFORE PROCEEDING.

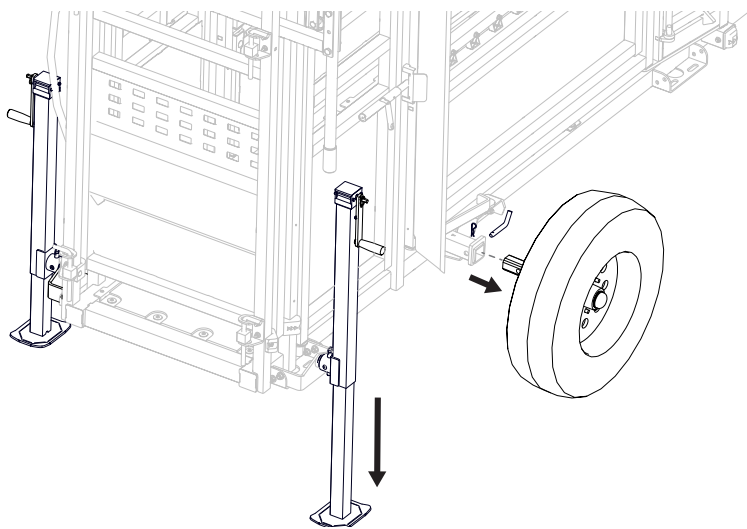
- 4** Transfer the front jack to the rear mount. Attach the second jack to the opposite side.



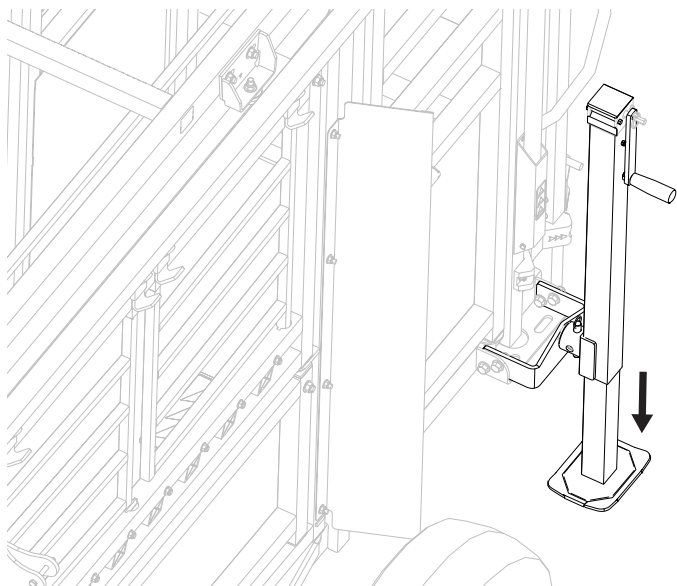
5 Using the jack, raise one side of the unit halfway.



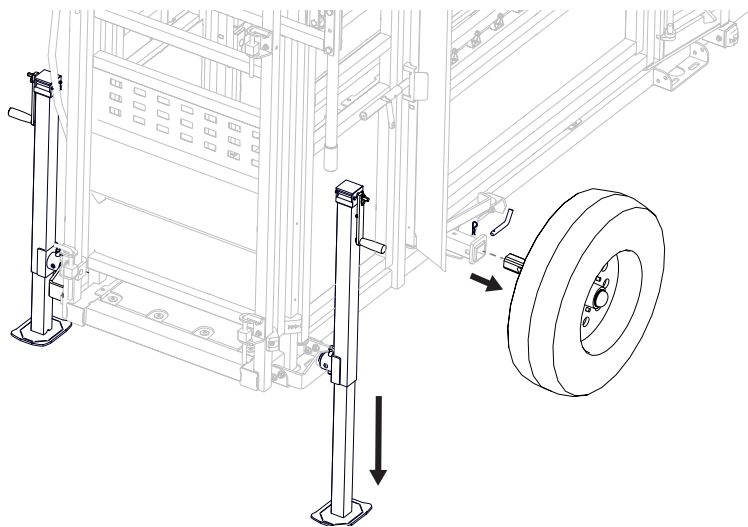
6 Jack the opposite side of the unit all the way up. Remove wheel and set safely aside.



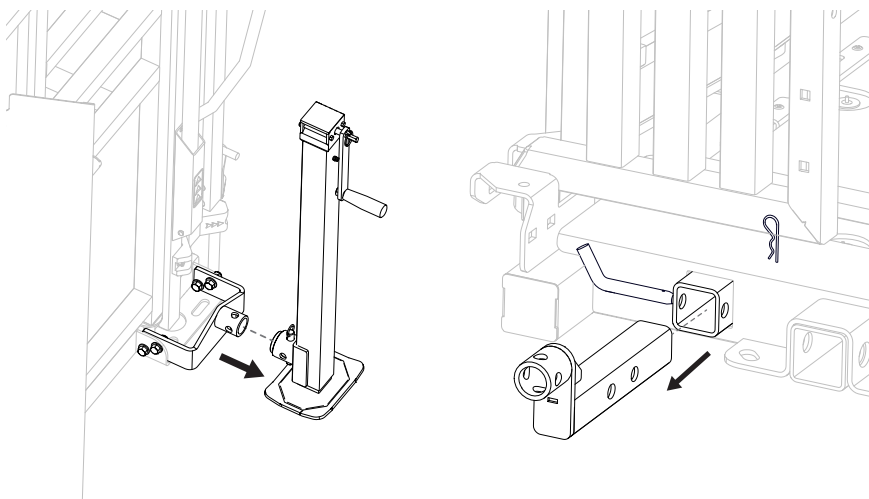
7 Jack the other side the rest of the way up. Remove wheel and set safely aside.



8 Retract both jacks until the chute lays flat on the ground.



- 9** Remove jacks and front jack adaptor. Set aside.



SAFETY CHECK:

- ✓ Inspect for damages due to transport
- ✓ Head gate and squeeze mechanisms are functioning properly
- ✓ All latches on doors, gates, and panels are functioning properly
- ✓ When applicable, all add-ons are properly installed and functioning

WHEEL MAINTENANCE

It is extremely important to apply and maintain proper wheel mounting torque on your trailer wheel. Torque is a measure of the amount of tightening applied to a fastener (nut or bolt) and is expressed as length force. For example, a force of 90 pounds applied at the end of a wrench on foot long will yield 90 ft. lbs. of torque. A torque wrench is the best method to assures the proper amount of torque is being applied to a fastener.

Be sure to use only fasteners matched to the cone angle of your wheel – usually 60° or 90°. The proper procedure for attaching your wheels is as follows:

1. Start all bolts or nuts by hand to prevent cross-threading.
2. Tighten bolts or nuts in the sequence shown for wheel torque requirements.
3. The tightening of the fasteners should be done in stages. Following the recommended sequence, tighten fasteners per wheel torque requirements diagram.
4. Wheel nuts/bolts should be torqued before first road use and after each wheel removal. Check and re-torque after the first 10 miles, 25 miles, and again at 50 miles. Check periodically thereafter.

HYDRAULIC HEAD SWEEP

Your Powerlock 105 Series will come with the hydraulic head sweep installed. If you are having trouble with your hydraulic head sweep, contact Client Care at 1-877-275-6075.



If you have any questions regarding your product or require assistance, please contact Arrowquip's Client Care Team at 1-877-275-6075 or by email at cs@arrowquip.com.



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