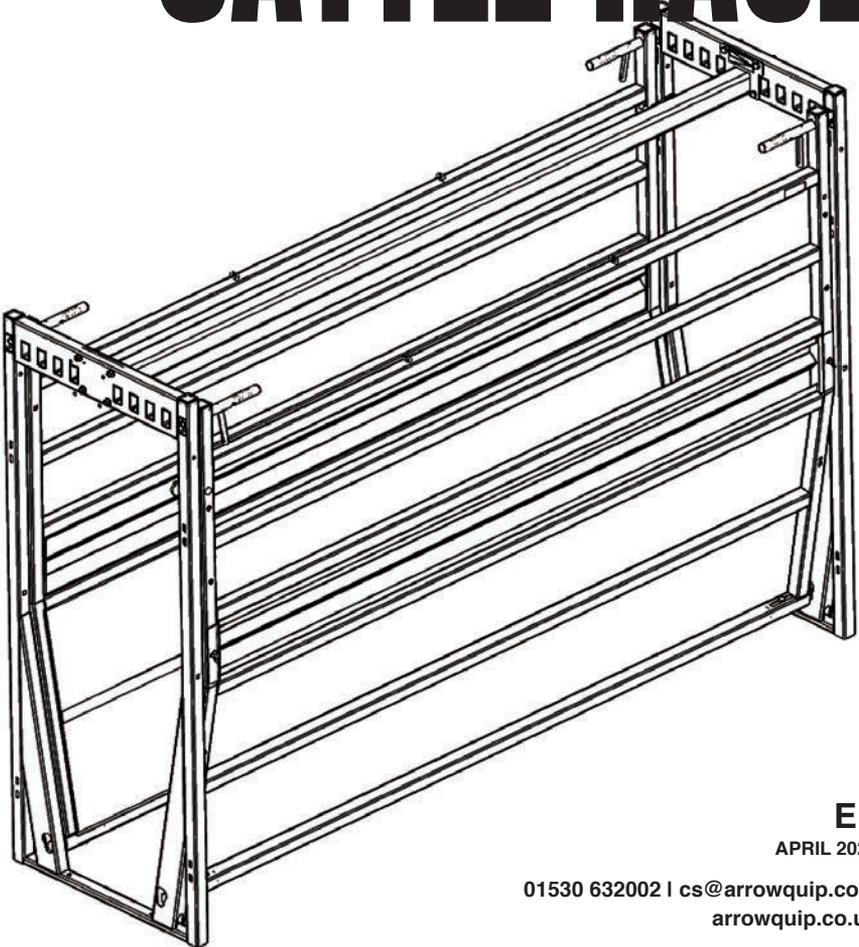




ARROWQUIP

PRODUCT MANUAL

EASY FLOW[®] CATTLE RACE



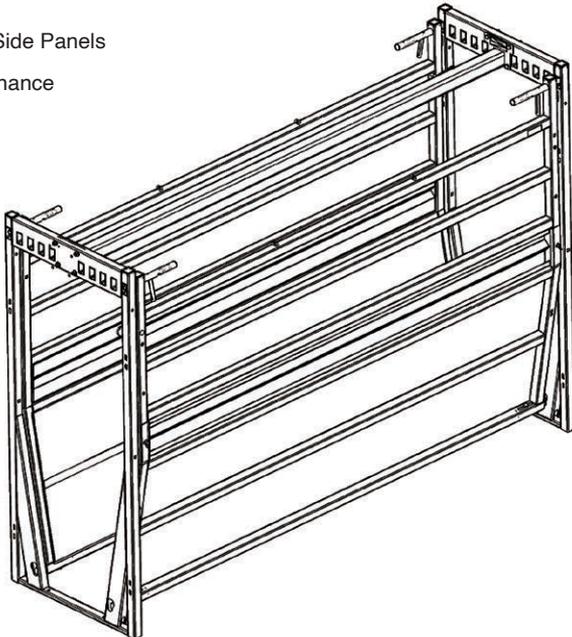
EF

APRIL 2021

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arrowquip.co.uk

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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 PRECAUTIONS OUTLINED HEREIN. 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 is 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, user must assume all responsibility and risk associated with the possession and use of the equipment.



WARNING: READ BELOW BEFORE OPERATION.



SAFETY LATCHES MUST BE IN PLACE WHEN ADJUSTING THE SIDES OF THE EASY FLOW CATTLE RACE. FAILURE TO USE THE SAFETY LATCHES MAY CAUSE THE PANELS TO DROP, RESULTING IN DAMAGE TO PERSONS OR PROPERTY.



**DANGER:
PANELS ARE VERY HEAVY AND WILL DROP WITH EXCESSIVE PRESSURE WHEN AN ANIMAL IS CONTAINED IN THE RACE. FAILURE TO OPERATE THE EMERGENCY EXIT PROPERLY MAY RESULT IN DAMAGE OR INJURY/DEATH.**

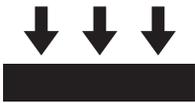
1. Ensure the operator understands the contents of this manual before using the equipment.
2. Do not wear loose-fitted clothing.
3. Ensure the equipment is on a firm, level, dry surface that is free of rocks and other trip hazards.
4. **DO NOT ALLOW CHILDREN UNDER THE AGE OF 18 NEAR AN OPERATING MACHINE.**
5. Follow safe cattle handling procedures in other areas of the yard so that cattle are more docile.
6. Do not make any modifications to Arrowquip equipment. Non-factory modifications to the equipment can reduce the safety for the operator and livestock.

RISK ASSESSMENT

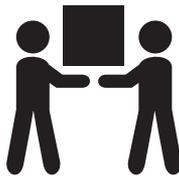
Conduct a risk assessment on procedures for which the equipment is used and establish a safe work procedure.

1. Ensure all users of the equipment have been inducted and comply with safe working procedure.
2. Please ensure that there are NO large or hazardous objects inside the equipment that may cause injury to the animal or operator, or may cause the equipment to malfunction.
3. Make sure that your equipment has been cleared of ALL livestock after use.
4. Some chemicals and medicines can damage powder coat. Take all precautions and wash after use.

BEFORE INSTALLING



Level Ground



HEAVY
Partner Lift



Forklift Required

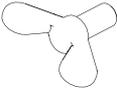
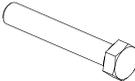
ASSEMBLY INSTRUCTIONS

ASSEMBLING A SINGLE EASY FLOW RACE

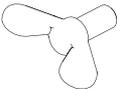
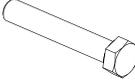
REQUIRED TOOLS

- 3/4" Wrench
- 3/4" Socket
- 9/16" Wrench
- 9/16" Socket
- Ratchet

PACKING LIST: 8' EASY FLOW RACE

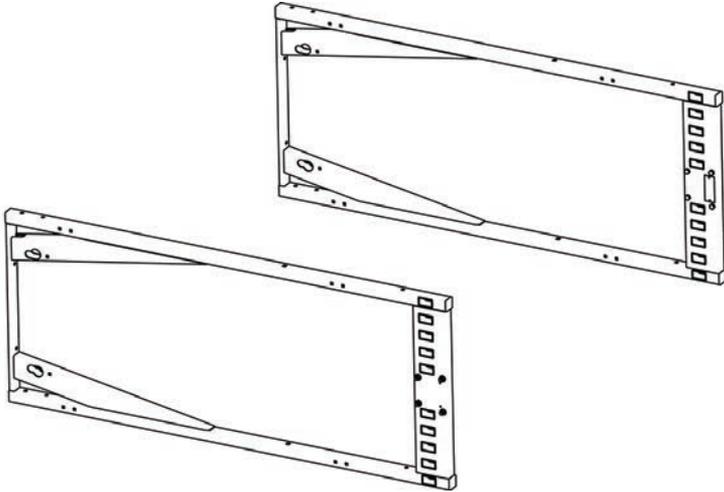
 <p>7002337 A</p> <p>WING HEAD BOLT</p> <p>x4</p>	 <p>7001812 B</p> <p>1/2" FLANGE NUT</p> <p>x8</p>	 <p>7002062 C</p> <p>1/2" x 3" HEX BOLT</p> <p>x8</p>	 <p>2004618 D</p> <p>x2</p>
 <p>2004619 E</p> <p>x1</p>	 <p>2004616 F</p> <p>x2</p>	 <p>2003908 G</p> <p>x2</p>	

PACKING LIST: 10' EASY FLOW RACE

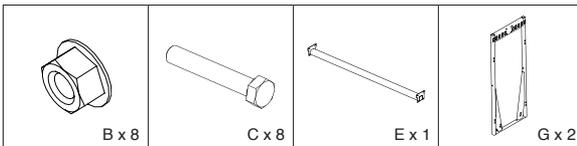
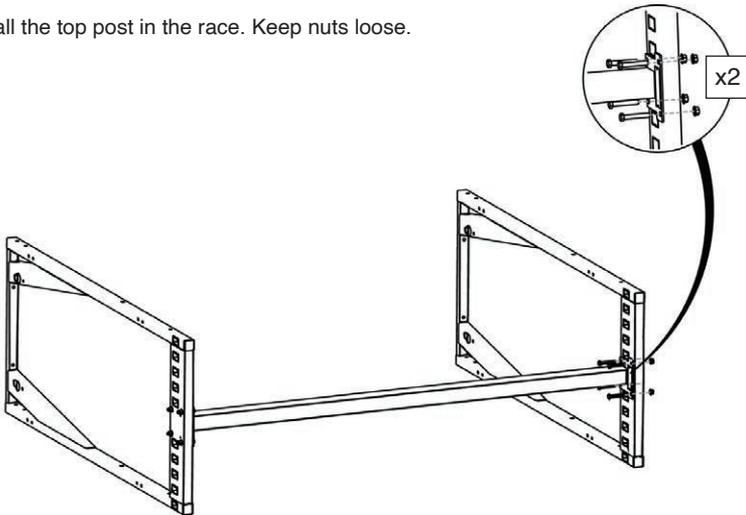
 <p>7002337 A</p> <p>WING HEAD BOLT</p> <p>x4</p>	 <p>7001812 B</p> <p>1/2" FLANGE NUT</p> <p>x8</p>	 <p>7002062 C</p> <p>1/2" x 3" HEX BOLT</p> <p>x8</p>	 <p>2003891 D</p> <p>x2</p>
 <p>2004949 E</p> <p>x1</p>	 <p>2003890 F</p> <p>x2</p>	 <p>2003908 G</p> <p>x2</p>	

ASSEMBLY

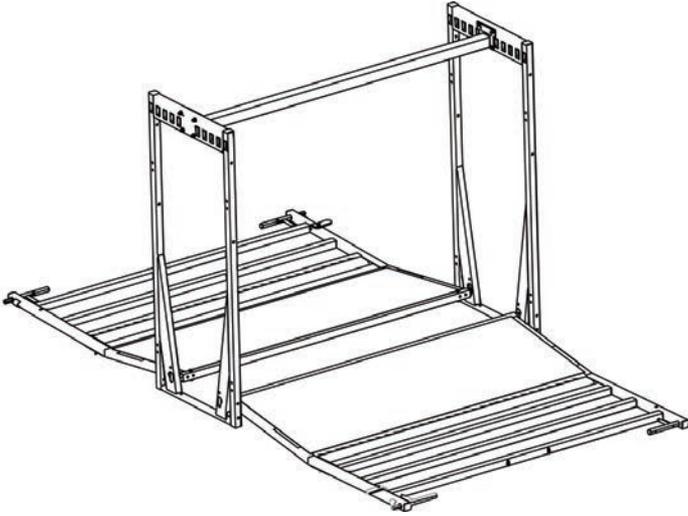
1 Lay two race bows on the ground horizontally.



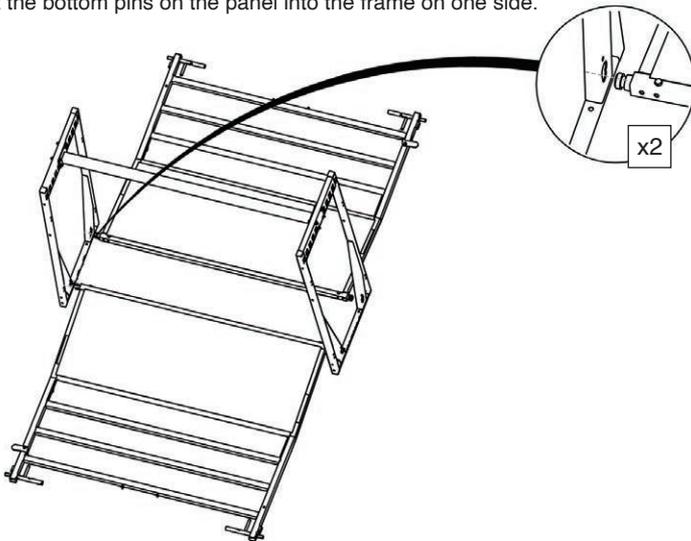
2 Install the top post in the race. Keep nuts loose.



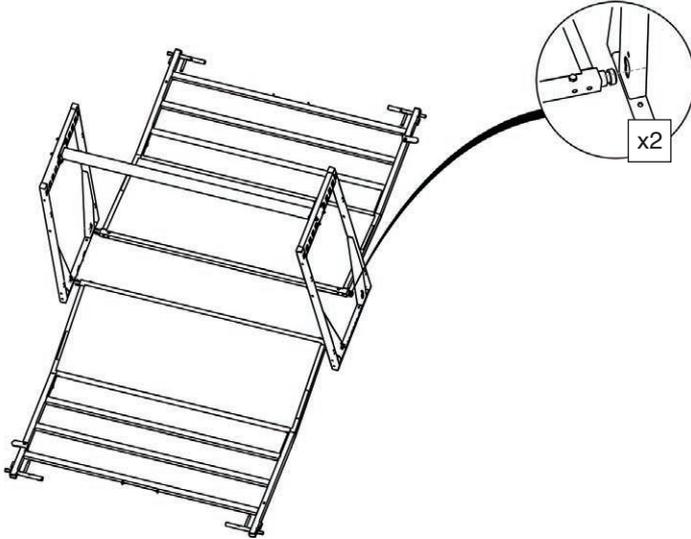
3 Stand the race frame up, and position one panel on each side.



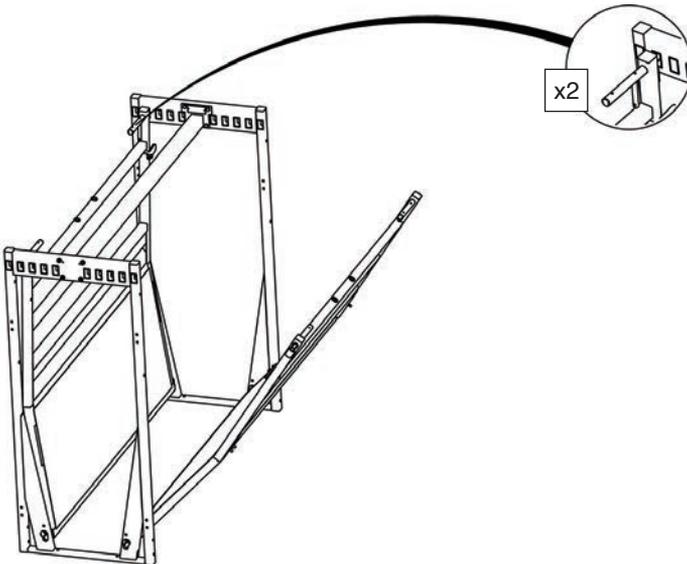
4 Insert the bottom pins on the panel into the frame on one side.



5 Insert the bottom pins on the panel into the frame on the opposite side.



6 Lift the panels up and latch into the frame. Tighten all fasteners to secure.



7 Connect to crush, race or other equipment using the provided panel pins.

CONNECTING TO ADDITIONAL PRODUCTS

KICKER PANEL INSTALLATION

REQUIRED TOOLS

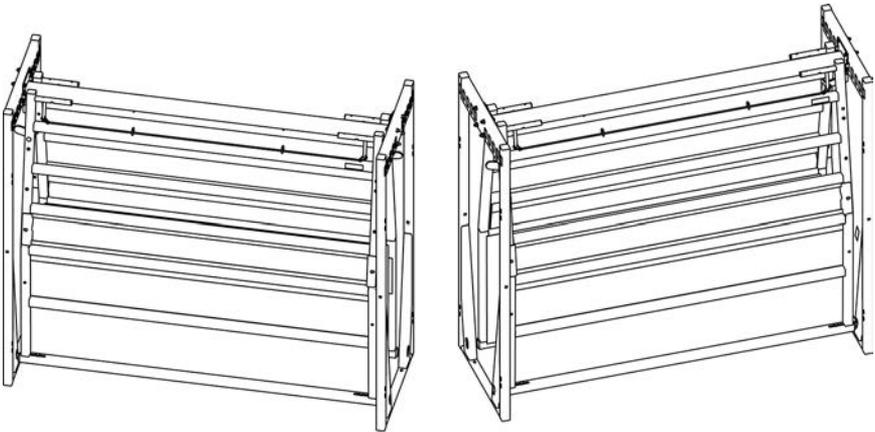
- 9/16" Wrench
- Alignment bar

PACKING LIST

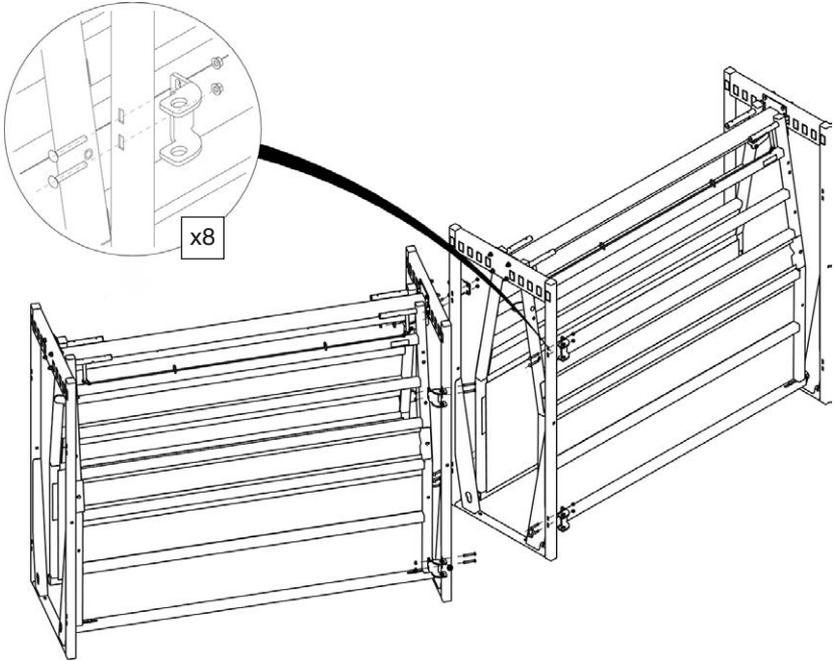
 <p>7002294 A</p> <p>3/8" x 2 3/4" CARRIAGE BOLT</p> <p>x8</p>	 <p>2004382 B</p> <p>x1</p>	 <p>7001811 C</p> <p>3/8" FLANGE NUT</p> <p>x8</p>	 <p>2008775 D</p> <p>x2</p>
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ASSEMBLY

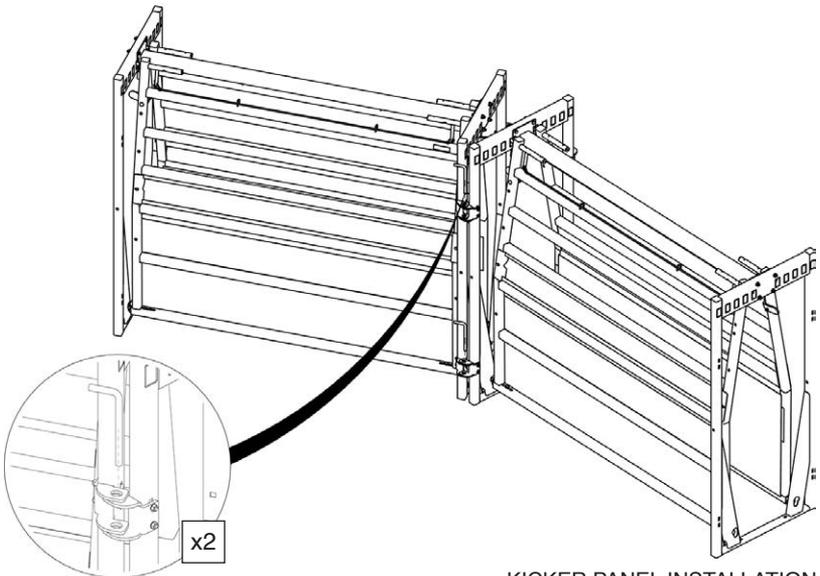
- 1 Start with two assembled Easy Flow Races.



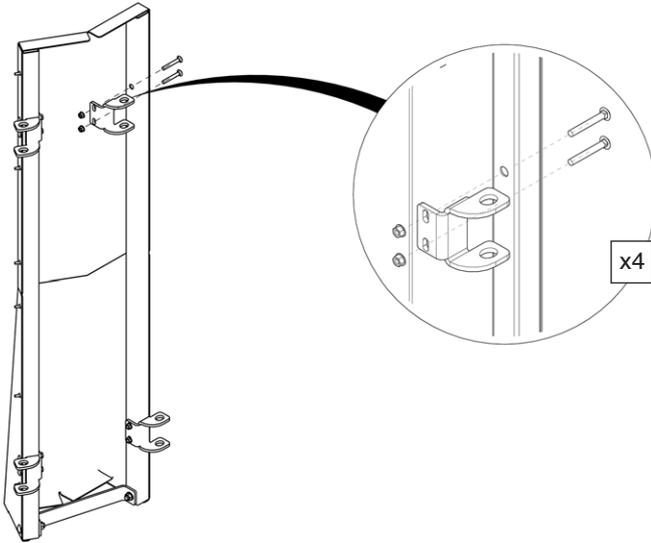
- 2** Switch the standard Panel Clips on Easy Flow Races to the No-Gap Panel Clips included with your Kicker Panel.
- a. 4 panel clips on each race bow, 8 total.



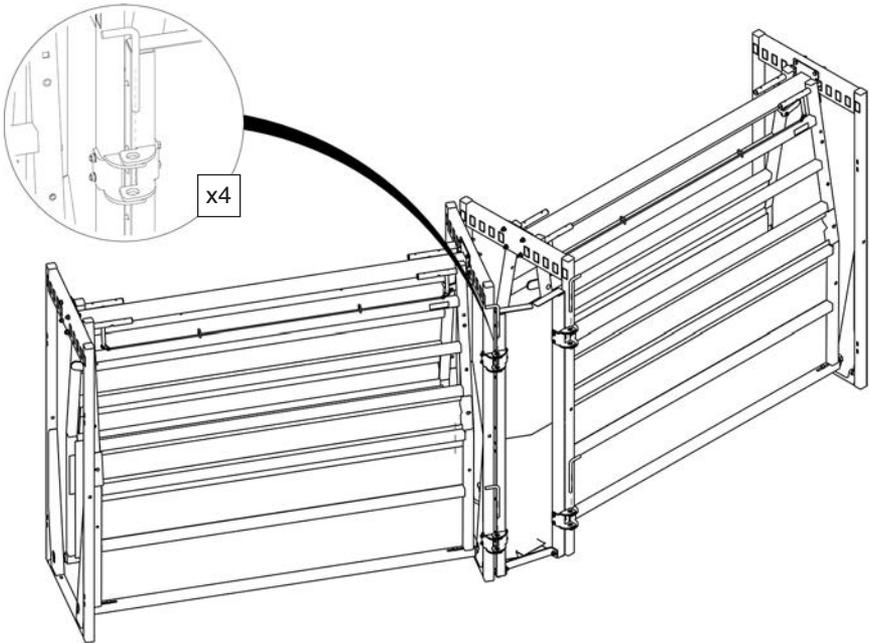
- 3** Connect the two races together on the side that you want to form the inside of the curve using 2 panel pins.



4 Move the Panel Clips on the Kicker Panel into the correct position.



5 Connect the Kicker Panel to the Easy Flow Cattle Races to form the outside of the curve.



CONNECTING TO ADDITIONAL PRODUCTS

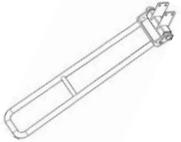
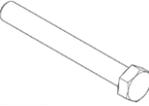
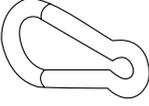
ANTI-BACKING BAR INSTALLATION

If you opted for an anti-backing bar, see the below instructions to install. The anti-backing bar should be placed at the entry side of the race with the bar facing in the direction of cattle flow, and you will use the chain for adjustments based on cattle size.

REQUIRED TOOLS

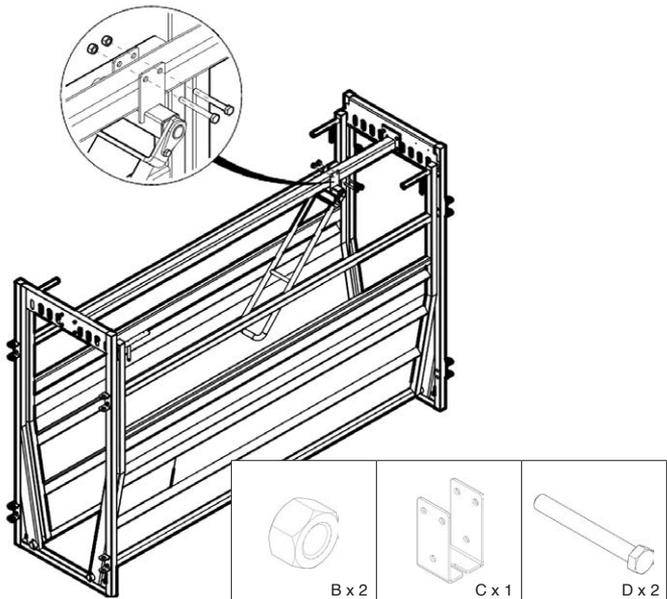
- 3/4" Wrench (x2)

PACKING LIST

 <p>Race STOP A</p> <p>x1</p>	 <p>7002008 B</p> <p>1/2" HEX NUT</p> <p>x5</p>	 <p>2000080 C</p> <p>x1</p>
 <p>7002084 D</p> <p>1/2" x 4" HEX BOLT</p> <p>x5</p>	 <p>2002529 E</p> <p>x1</p>	 <p>2000020 F</p> <p>x1</p>

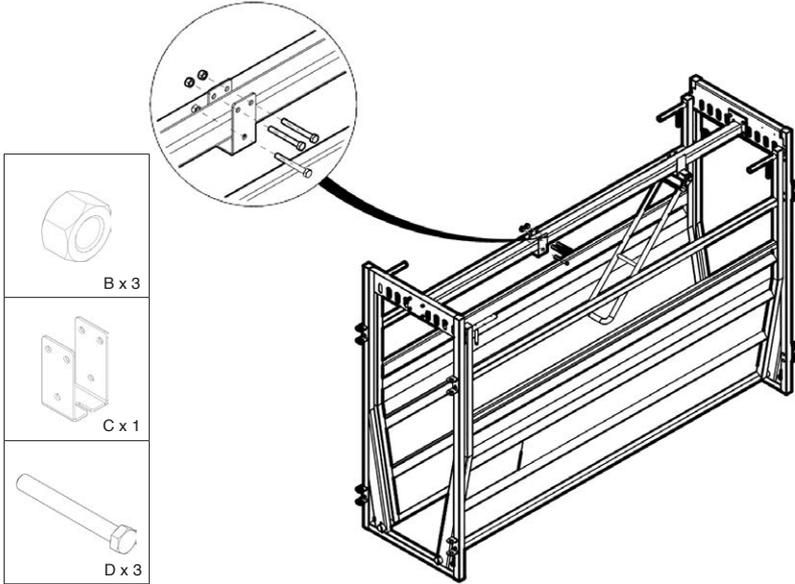
ASSEMBLY

- 1 Install Race Stop with the bar facing in the direction of cattle flow near the point of entry into the race.

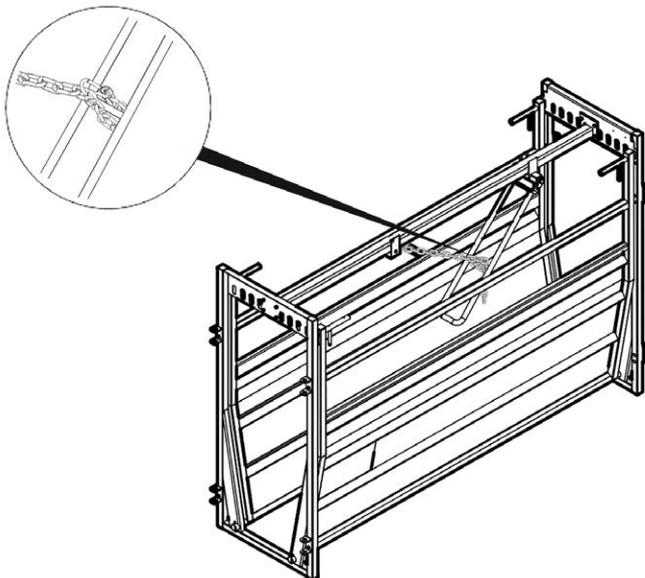


2 Install the chain latch.

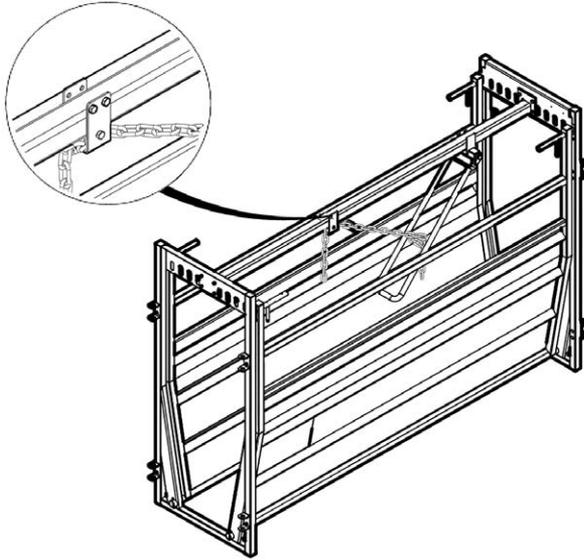
NOTE: The notch on the latch must face the direction of cattle flow.



3 Install the chain clip and secure to the centre bar on the Race Stop.



4 Install the chain into the chain latch and adjust to the proper height for livestock.



CONNECTING TO ADDITIONAL PRODUCTS DOUBLE RACE MERGE SECTION INSTALLATION

Reference the Double Cattle Race Merge Section installation instructions, available at <https://arrowquip.co.uk/resources/manuals>.

CONNECTING TO ADDITIONAL PRODUCTS ROLLING RACE GATE INSTALLATION

REQUIRED TOOLS

- 9/16" Wrench

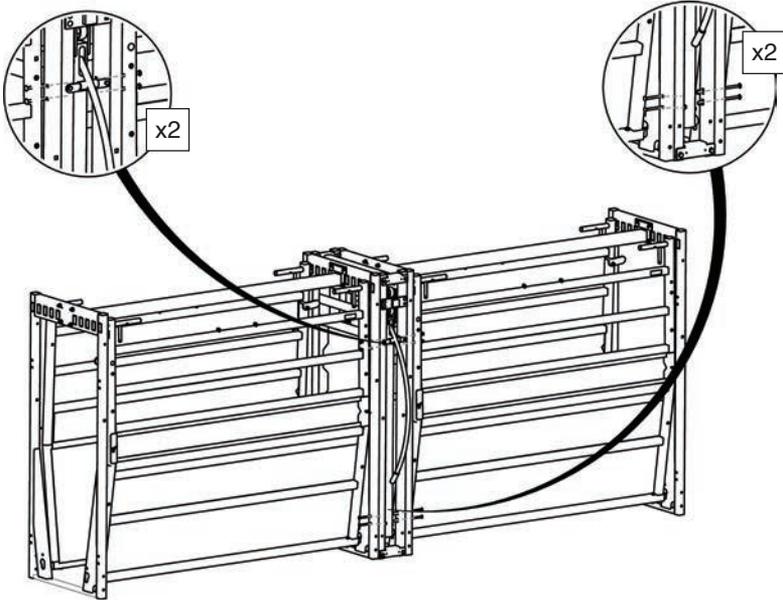
1. BETWEEN TWO RACES

PACKING LIST

	2000093 A		7002318 B		7001811 C
	x1	3/8" x 4 1/2" CARRIAGE BOLT	x8	3/8" FLANGE NUT	x12

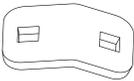
ASSEMBLY

1. Remove panel clips from the Rolling Race Gate frame.
2. Place the Race Gate between two races.
3. Extend Rolling Race Gate to the far side with Off-Side Operation Handle.
4. Connect Rolling Race Gate Frame to the Race Bow with bolts and secure.



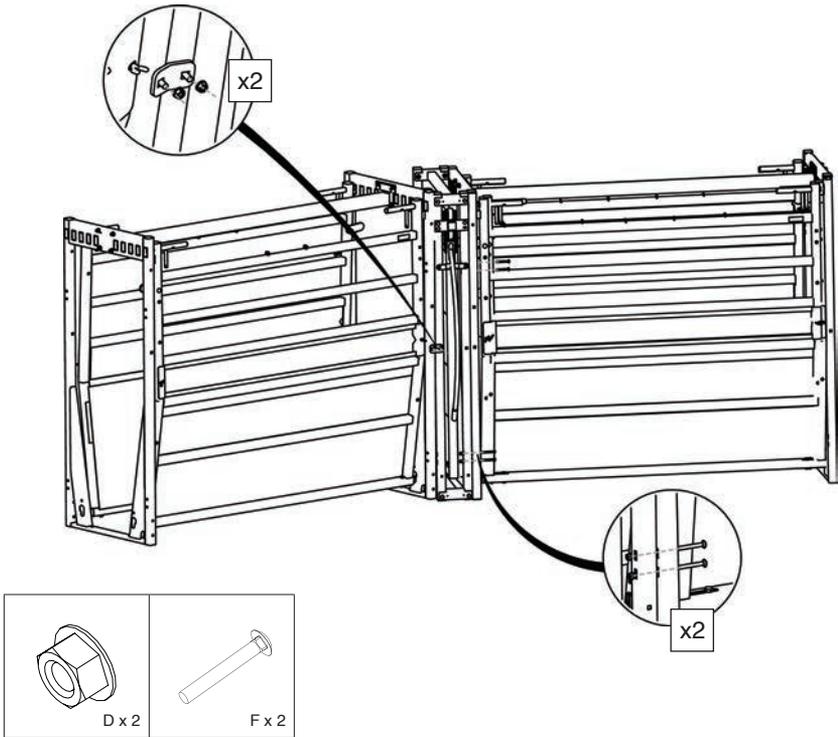
2. BETWEEN A RACE AND A KICKER PANEL

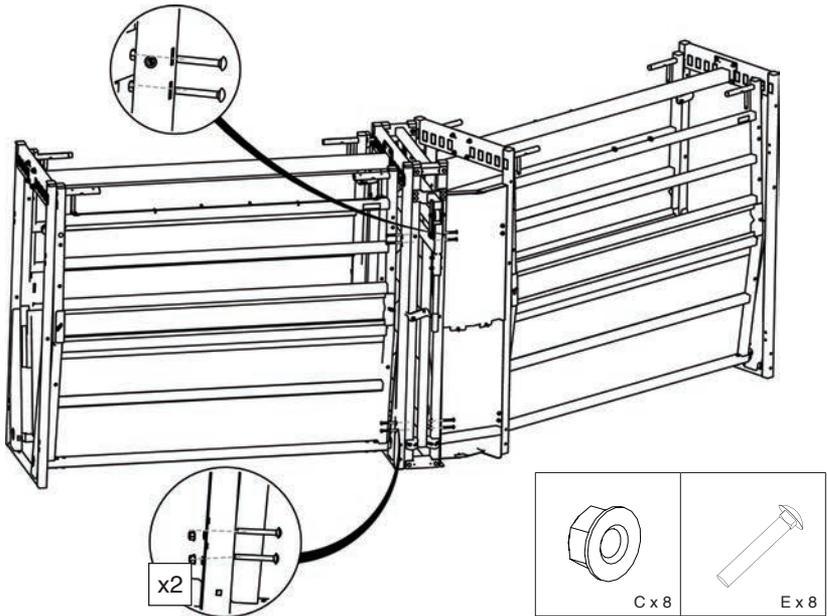
PACKING LIST

 <p>2000093 A</p> <p>x1</p>	 <p>7002318 B</p> <p>3/8" x 4 1/2" CARRIAGE BOLT</p> <p>x8</p>	 <p>7001811 C</p> <p>3/8" FLANGE NUT</p> <p>x16</p>	 <p>7001812 D</p> <p>1/2" FLANGE NUT</p> <p>x2</p>
 <p>7002294 E</p> <p>3/8" x 2 3/4" CARRIAGE BOLT</p> <p>x8</p>	 <p>7002295 F</p> <p>1/2" x 3" CARRIAGE BOLT</p> <p>x2</p>	 <p>2000037 G</p> <p>x1</p>	

ASSEMBLY

1. Remove panel clips from the Rolling Race Gate frame.
2. Place the Rolling Race Gate between the Race and Kicker Panel.
3. Extend Rolling Race Gate to the far side with Off-Side Operation Handle.
4. Connect the Rolling Race Gate Frame to the Race Bow and the Kicker Panel with bolts, and secure.





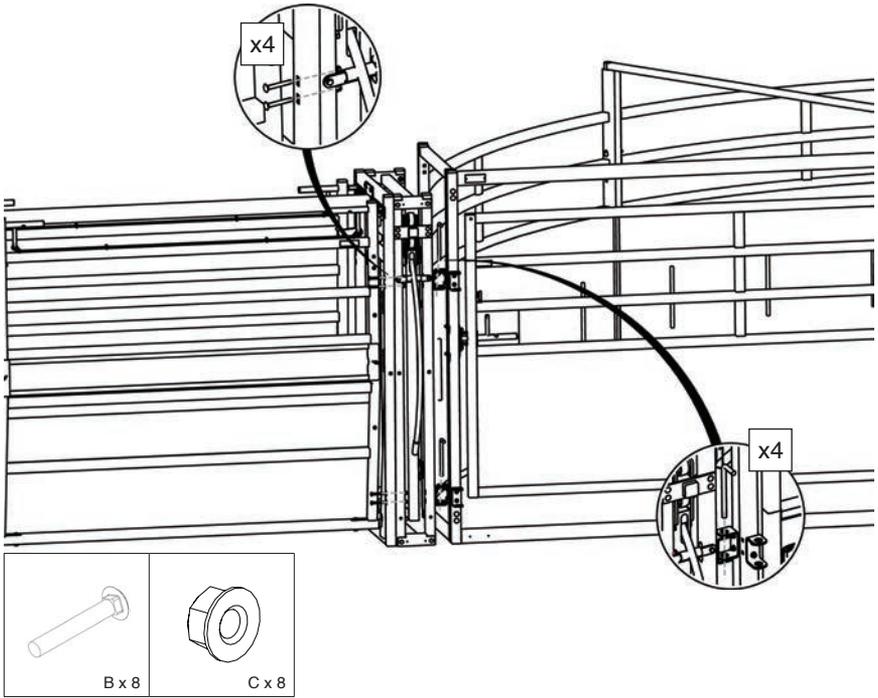
3. BETWEEN A RACE AND A FORCING PEN

PACKING LIST

 <p>2000093 A</p> <p>x1</p>	 <p>7002318 B</p> <p>x8</p> <p>3/8" x 4 1/2" CARRIAGE BOLT</p>	 <p>7001811 C</p> <p>x8</p> <p>3/8" FLANGE NUT</p>
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ASSEMBLY

1. Remove panel clips from the Rolling Race Gate frame on the Race Side only.
2. Place the Rolling Race Gate between the Race and Forcing pen Exit.
3. Extend Rolling Race Gate to the far side with Off-Side Operation Handle.
4. Connect the Rolling Race Gate Frame to the Race Bow with bolts, and secure.
5. Use panel pins to connect the Rolling Race Gate to the Forcing Pen.



4. BETWEEN A RACE AND A VET CAGE

1. Follow the same steps for connecting a Rolling Race Gate between a Race and a Forcing Pen. Replace 'Forcing Pen' with 'Vet Cage'.

OTHER PRODUCTS

To connect your Easy Flow Cattle Race to other products in the Arrowquip line, use panel clips and pins to secure products.

ADJUSTING THE EASY FLOW CATTLE RACE



SAFETY LATCHES MUST BE IN PLACE WHEN ADJUSTING THE SIDES OF THE EASY FLOW CATTLE RACE. FAILURE TO USE THE SAFETY LATCHES MAY CAUSE THE PANELS TO DROP, RESULTING IN DAMAGE TO PERSONS OR PROPERTY.

1. Pull the connection cable between the slam latches to release the panel.
2. Adjust panel into the desired position.
3. Lock the panel into position with slam latches, ensuring both latches are securely fastened in parallel adjustment slots.

EMERGENCY EXIT



**DANGER:
PANELS ARE VERY HEAVY AND WILL DROP WITH EXCESSIVE PRESSURE WHEN AN ANIMAL IS CONTAINED IN THE RACE. FAILURE TO OPERATE THE EMERGENCY EXIT PROPERLY MAY RESULT IN DAMAGE OR INJURY/DEATH.**

In the event of a downed animal or other emergency, you can use the emergency exit to release livestock from the raceway. Exercise caution when releasing livestock, as they may act in unpredictable and/or uncharacteristic ways while distressed.

NOTE: You will need two people to accomplish this safely.

1. Ensure all persons and property are out of the way of the panel.
2. Tie a minimum 17' long rope on the top bar of the panel.
3. Wrap the rope around the center post on the race twice.
4. Lift the safety latches to allow the emergency exit to be used.
5. Release the slam latches on the panel to allow it to be lowered.
6. While standing on the opposite side of the race from the panel you are releasing, lower the panel to the ground slowly with the rope.
7. Assist the animal to exit the race and provide care, as necessary.
8. Once the animal is free of the race, lift the panel back into position and secure the slam latches.

9. Ensure both latches are securely fastened in parallel adjustment slots.
10. Lower the safety latches into position.
11. Remove the rope. It is now safe to continue running cattle through the race.

A video explaining how to safely lower the Easy Flow Race Emergency Exit can be found here: youtu.be/4eVA-R1v1bo.

USING THE REMOVABLE SIDE PANELS

The removable side panels can be configured in multiple positions, allowing you to control what cattle see when in the races. The panels can be configured in multiple ways, and additional panels can be added, as desired.

1. Release the panel by removing the wing screws on both ends of the panel.
2. Remove the panel and install in the desired position.

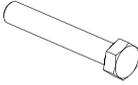
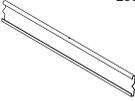
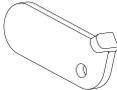
If you do not require high sheeting or are working with calves, extra panels can be stored on the side of the race.

RECOMMENDED MAINTENANCE

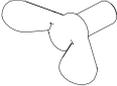
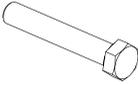
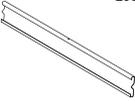
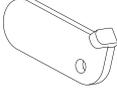
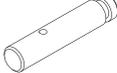
All Arrowquip Products are made with precision parts to require minimal maintenance. However, regular maintenance will keep your equipment running smoothly and safely.

1. Lubricate latches, lube bolts, and hinges regularly with WD-40. Recommended every six months, minimum.
2. Check mechanism pivot bolts for wear and lubricate or replace, as necessary.
3. Inspect for signs of mechanical damage regularly, specifically to gate latches and striker plates, and ensure gates are locking securely.

8' EASY FLOW RACE BILL OF MATERIALS

<p>7002337</p>  <p>WING HEAD BOLT</p>	<p>7001812</p>  <p>1/2" FLANGE NUT</p>	<p>7002062</p>  <p>1/2" x 3" HEX BOLT</p>	<p>2004618</p> 
<p>2004619</p> 	<p>2004616</p> 	<p>2003908</p> 	<p>2004875</p> 
<p>2004874</p> 	<p>2007457</p> 	<p>2004379</p> 	

10' EASY FLOW RACE BILL OF MATERIALS

<p>7002337</p>  <p>WING HEAD BOLT</p>	<p>7001812</p>  <p>1/2" FLANGE NUT</p>	<p>7002062</p>  <p>1/2" x 3" HEX BOLT</p>	<p>2003891</p> 
<p>2004949</p> 	<p>2003890</p> 	<p>2003908</p> 	<p>2004875</p> 
<p>2004874</p> 	<p>2007455</p> 	<p>2004379</p> 	

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. Warranty does not cover corrosion. NOTE: Any modification, in any fashion, to any Arrowquip equipment immediately voids the product warranty. This includes the parts contained therein.

Eg. 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.co.uk/product-registration

Phone: 01530 632002 | **Email:** cs@arrowquip.com



ARROWQUIP

If you have any questions regarding your product or require assistance, please contact Arrowquip's Client Care Team at 01530 632002 or by email at cs@arrowquip.com.