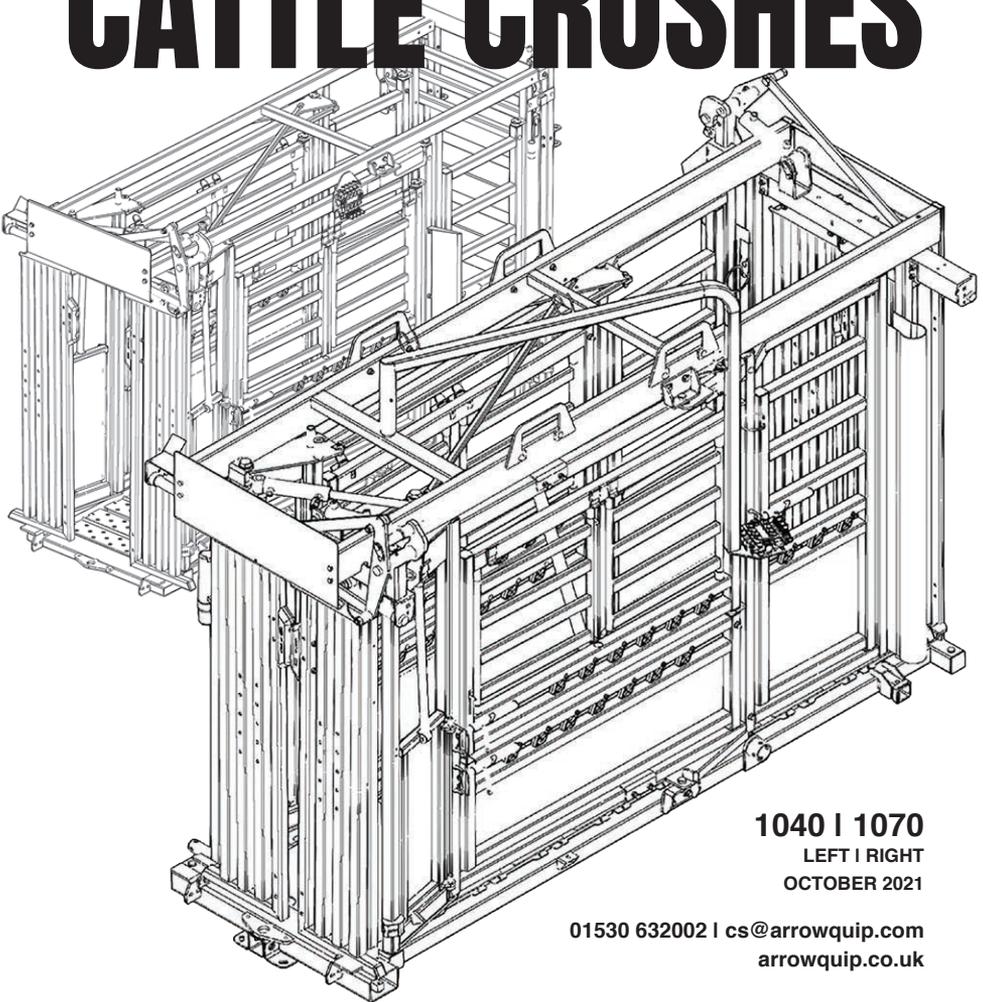




**ARROWQUIP**

**PRODUCT MANUAL**

# **Q-POWER CATTLE CRUSHES**



**1040 | 1070**

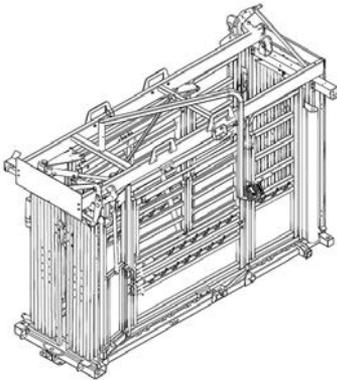
LEFT | RIGHT

OCTOBER 2021

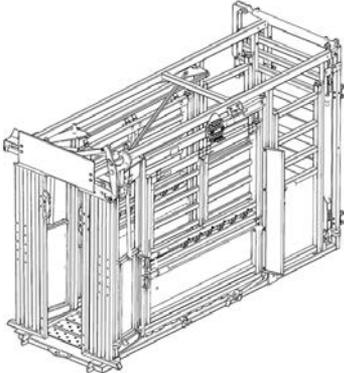
01530 632002 | [cs@arrowquip.com](mailto:cs@arrowquip.com)  
[arrowquip.co.uk](http://arrowquip.co.uk)



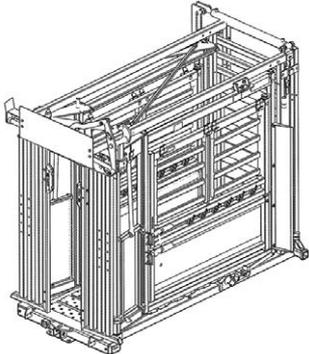
**THIS PRODUCT MANUAL IS FOR THE FOLLOWING PRODUCTS:**



Q-Power 107 Series Deluxe Vet



Q-Power 104 Series Deluxe Vet



Q-Power 104 Series Standard



## **WARNING**

**DO NOT REPAIR THE CRUSH OR GO INTO THE CRUSH WHEN HYDRAULICS ARE IN OPERATION. This can result in injury to the worker. Unplug the motor before performing any necessary repairs or inspection.**

**DO NOT ATTEMPT TO CONNECT THE ELECTRIC POWER PACK IF YOU ARE NOT A CERTIFIED ELECTRICIAN. For your safety, electric power packs must be connected and wired by a fully certified electrician.**

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# CONTENTS

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|                                          |    |
|------------------------------------------|----|
| Safety Precautions                       | 1  |
| Risk Assessment                          | 2  |
| Q-Power Hydraulic Cattle Crush Assembly  | 3  |
| Operating the Q-Power Cattle Crush       | 3  |
| Cold Start                               | 4  |
| Power Failure                            | 4  |
| Recommended Maintenance                  | 4  |
| Maintenance Safety                       | 4  |
| Regular Maintenance                      | 5  |
| Hydraulic Maintenance                    | 7  |
| Power Pack Maintenance                   | 7  |
| Troubleshooting Guide                    | 7  |
| Squeeze Crush                            | 7  |
| Power Pack                               | 8  |
| Warranty                                 | 8  |
| Add-Ons Maintenance & Safety Precautions | 9  |
| 3rd Generation Q-Catch Head Scoop        | 9  |
| Sheeted Sternum Bar                      | 10 |
| Clipping Rail                            | 11 |
| Hydraulic Head Sweep                     | 13 |

**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**

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**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 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, user must assume all responsibility and risk associated with the possession and use of the equipment.



**WARNING: READ BELOW BEFORE OPERATION.**

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

1. **DO NOT** wear loose-fitted clothing.
2. Ensure the cattle crush 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 crush bolted to the concrete is strongly recommended.
3. **DO NOT** enter the vet cage until the animal is secured in the yoke gate and the rump bar has been placed so that the cow cannot back up.
4. **DO NOT** stand in front of the yoke gate while operator is moving the cattle through the cattle crush.
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 crush.

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 CRUSH OR ARE TOUCHING THE CRUSH. REACHING OUT OR INTO THE CRUSH 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 crush.
11. Keep a distance of more than an arm's length from the hydraulic crush while hydraulics are in operation.

## RISK ASSESSMENT

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Conduct a risk assessment on procedures regarding the operation of an Arrowquip hydraulic cattle crush, 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 crush is secured on firm ground.
3. Please ensure that there are no hazardous hydraulic cords or large objects within or around the crush where cattle and operator will be.
4. Please ensure that all hydraulics work properly before putting cattle through the crush.
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 yoke gate are adjusting smoothly.
7. If hydraulics do not function properly when testing the equipment, **DO NOT** put cattle through the crush.
8. Ensure that access gates are closed securely before running cattle through the crush.
9. Some chemicals and medicines can damage powder coat. Take all precautions and wash after use.
10. Make sure your crush has been cleared of ALL livestock after use.

# Q-POWER HYDRAULIC CATTLE CRUSH ASSEMBLY

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



**DO NOT ATTEMPT TO CONNECT THE ELECTRIC POWER PACK IF YOU ARE NOT A CERTIFIED ELECTRICIAN.**

A certified electrician is required to connect the Electric Power Pack to your unit. For full details on installation, refer to the Power Pack manual by scanning the QR Code on your phone below.

## Q-POWER 107 SERIES



## Q-POWER 104 SERIES



# OPERATING THE Q-POWER CATTLE CRUSH

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**STOP**

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

1. Ensure the yoke gate, rear gate, and all access points are closed before the animal enters the crush.
2. Open rear gate for the animal to enter the cattle crush enclosure.
3. Close rear gate.
4. Open yoke gate slightly more than the neck size of the animal to tempt the animal to stick its head through the yoke gate. When neck of animal is in the correct position, quickly close the yoke 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 yoke gate, it is recommended to use the anti-backing bar behind cattle rump.



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

## **COLD START**

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To cold start the unit it when it is not at operating temperature, follow the below instructions.

1. With recirculation valve locked in the up position, the cold start allows the oil to circulate within the power pack to warm the oil, allowing for faster flow rate to the crush.
2. With recirculation valve locked in the down position, it is engaged to run the crush.

## **POWER FAILURE**

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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 Yoke 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 crush.
5. Review the cause for power failure and troubleshoot to restore power.
6. See start-up procedure once power is restored.

## **RECOMMENDED MAINTENANCE**

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

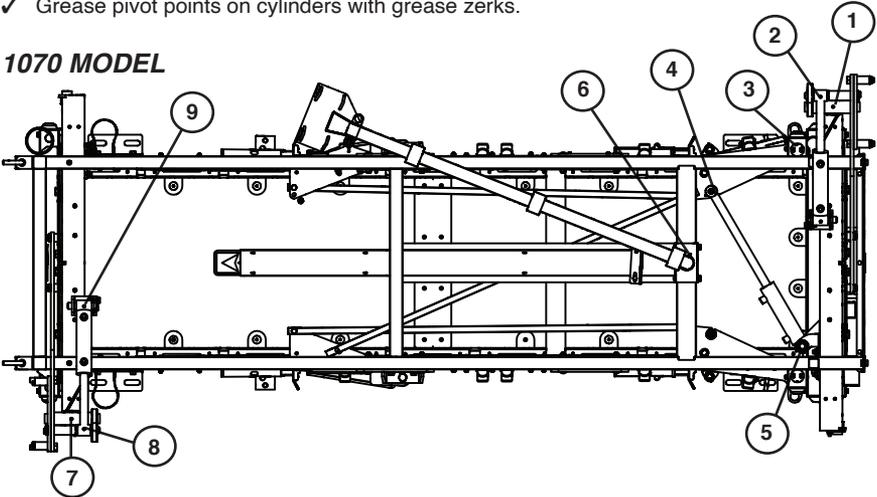
### **MAINTENANCE SAFETY**

1. Ensure the area is clear of bystanders, especially children, when doing any maintenance or repair on the hydraulic squeeze crush.
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 crush, please ensure there are no livestock in the crush.
4. **DO NOT** repair the crush or go into the crush 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

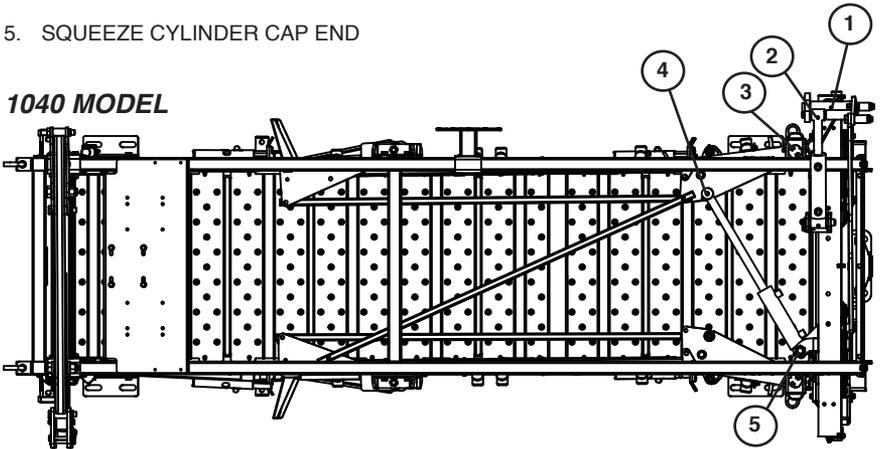
- ✓ **Inspect the entire unit.** Ensure all moving components are free of debris and functioning properly. Use proper cleaning and troubleshooting steps, if necessary.
- ✓ Grease pivot points on cylinders with grease zerks.

### 1070 MODEL



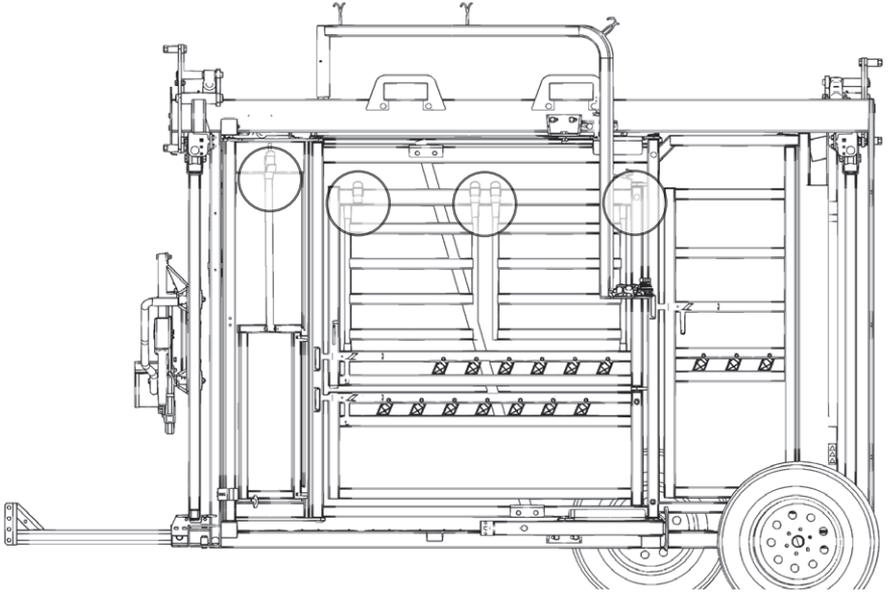
- |                               |                               |
|-------------------------------|-------------------------------|
| 1. YOKE GATE TOWER BUSHING    | 6. SWING ARM                  |
| 2. YOKE GATE CYLINDER ROD END | 7. TAIL GATE TOWER BUSHING    |
| 3. YOKE GATE CYLINDER CAP END | 8. TAIL GATE CYLINDER ROD END |
| 4. SQUEEZE CYLINDER ROD END   | 9. TAIL GATE CYLINDER CAP END |
| 5. SQUEEZE CYLINDER CAP END   |                               |

### 1040 MODEL

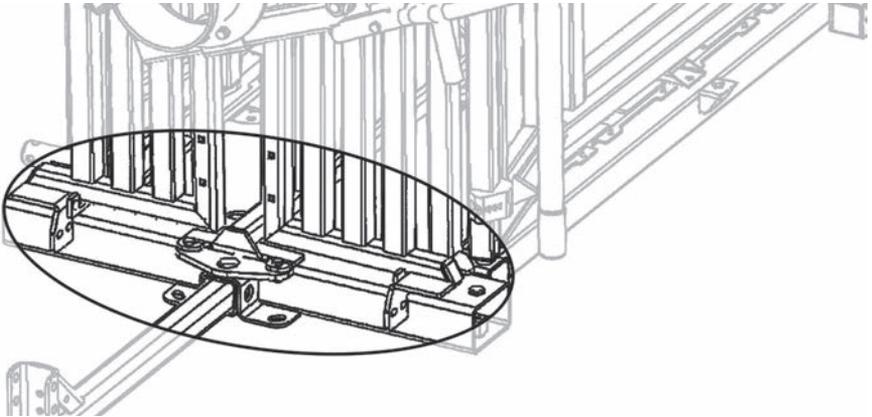


- |                               |                             |
|-------------------------------|-----------------------------|
| 1. YOKE GATE TOWER BUSHING    | 4. SQUEEZE CYLINDER ROD END |
| 2. YOKE GATE CYLINDER ROD END | 5. SQUEEZE CYLINDER CAP END |
| 3. YOKE GATE CYLINDER CAP END |                             |

- ✓ Lubricate slam latches and door hinges with WD-40 Dry Lube.



- ✓ Check gate latches and striker plates for wear. Ensure gates are locking securely.
- ✓ Clean bottom yoke gate door track to prevent dirt-build-up.



- ✓ Clean the crush floor. Excess build-up of manure or dirt inside crush can cause the squeeze and yoke 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.

### Q-POWER 107 SERIES



### Q-POWER 104 SERIES



**DO NOT ATTEMPT TO TROUBLESHOOT OR FIX ISSUES WITH THE ELECTRIC POWER PACK UNLESS YOU ARE A CERTIFIED ELECTRICIAN.**

## TROUBLESHOOTING GUIDE

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**DO NOT ATTEMPT TO TROUBLESHOOT OR FIX ISSUES WITH THE ELECTRIC POWER PACK UNLESS YOU ARE A CERTIFIED ELECTRICIAN.**

## SQUEEZE CRUSH

1. To ensure proper operation make sure yoke gate is situated on level ground or base.
2. Make sure yoke gate door tracks are free of debris.
3. Keep floors clean. Excess build-up of manure or dirt inside crush can cause the squeeze and yoke gate to malfunction.

4. Lubricate slam latches and pivot points with WD-40 Dry Lube.

## POWER PACK

Contact your Electrician for assistance with any Power Pack issues.

For additional information, download your Power Pack Manual here.

### Q-POWER 107 SERIES



### Q-POWER 104 SERIES



**DO NOT ATTEMPT TO TROUBLESHOOT OR FIX ISSUES  
WITH THE ELECTRIC POWER PACK UNLESS YOU ARE A  
CERTIFIED ELECTRICIAN.**

## WARRANTY

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Q-Power 104 Series Standard & Deluxe Vet Models: 10 Years **or** 25,000 Total Head of Cattle.\*

Q-Power 107: 15 Years **or** 50,000 Total Head of Cattle.\*

**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 Authorised 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 cattle crush, and the sternum bar is bent afterwards, warranty for the damaged part, the sternum bar, contained in the modified equipment, the cattle crush, is void. In addition, any remaining warranty for the cattle crush and other parts contained therein, including, but not limited to, the yoke gate, locking system, Q-Catch system, and rollers, is null and void.

## REGISTER FOR WARRANTY NOW:

**Online:** [arrowquip.co.uk/product-registration](http://arrowquip.co.uk/product-registration)

**Phone:** 01530 632002 | **Email:** [cs@arrowquip.com](mailto:cs@arrowquip.com)

- \* Warranty valid for the number of years **or** the number of head outlined above, whichever limit is met first. Follow the recommended use instructions to maximise the lifespan of your equipment. Arrowquip products that have only been used within acceptable tolerance following the stated recommended use will be eligible to claim warranty.

## ADD-ONS MAINTENANCE & SAFETY PRECAUTIONS

### 3rd GENERATION Q-CATCH HEAD SCOOP

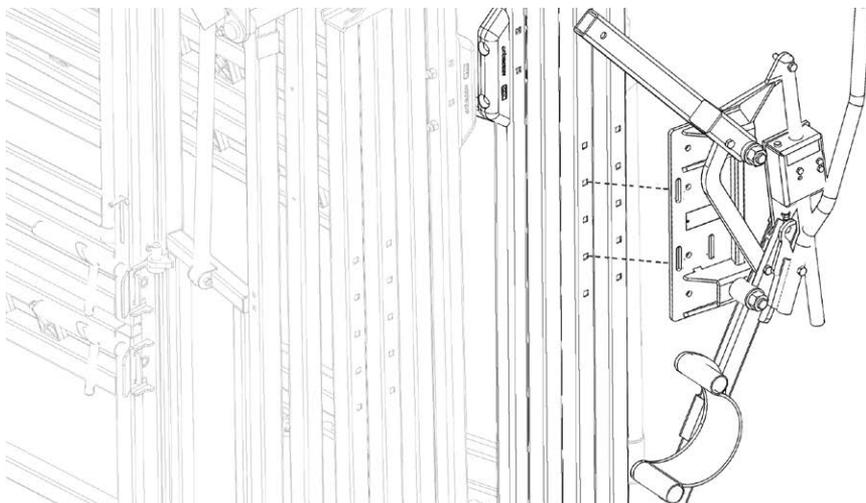
For complete information, read the Head Scoop manual.

#### Requirements:

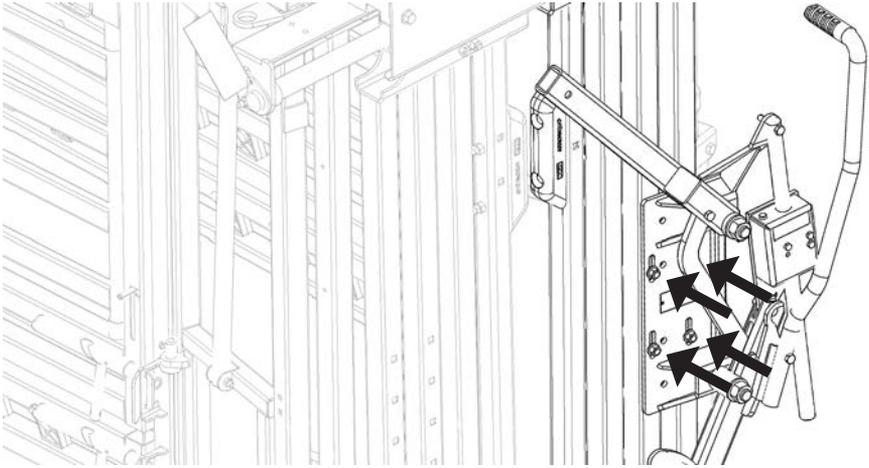
- 2 people
- 3/4" Wrench

#### Installation:

- 1** a. Insert 4x1/2-13x3" carriage bolts through the yoke gate door from inside the crush.  
b. Align the head scoop to the slots in the yoke gate according to your desired height.



- 2** Secure the head scoop with 4 bolts.



**Safety Precautions:**

1. Ensure that the head scoop remains open until required to hold the animal's head.
2. If not in use, use detent pin to hold the head scoop in place.

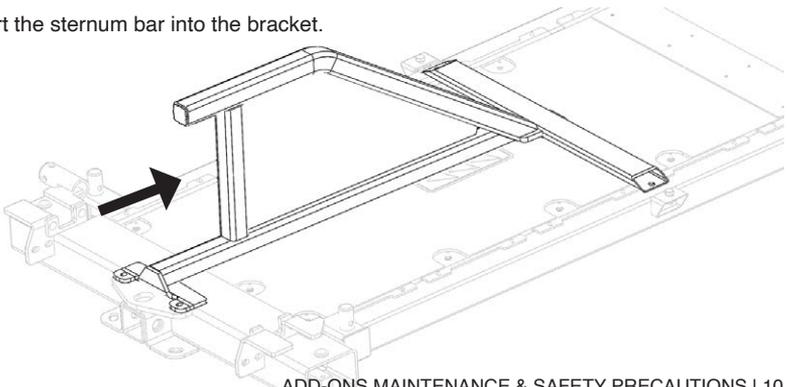
**Maintenance:**

1. Add grease through the 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 lockbox shaft while opening and closing the head holder.

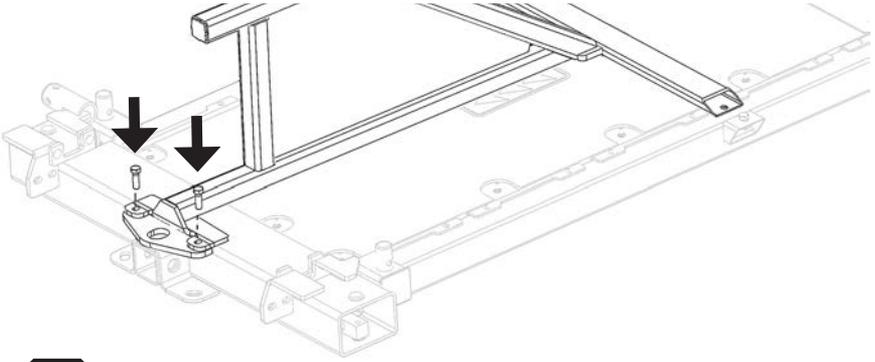
**SHEETED STERNUM BAR**

**Installation:**

- 1** Insert the sternum bar into the bracket.



**2** Fasten bolts to front plate.



**STOP**

**SAFETY CHECK:**

- ✓ Ensure that the sternum bar is installed correctly before running cattle through the crush.

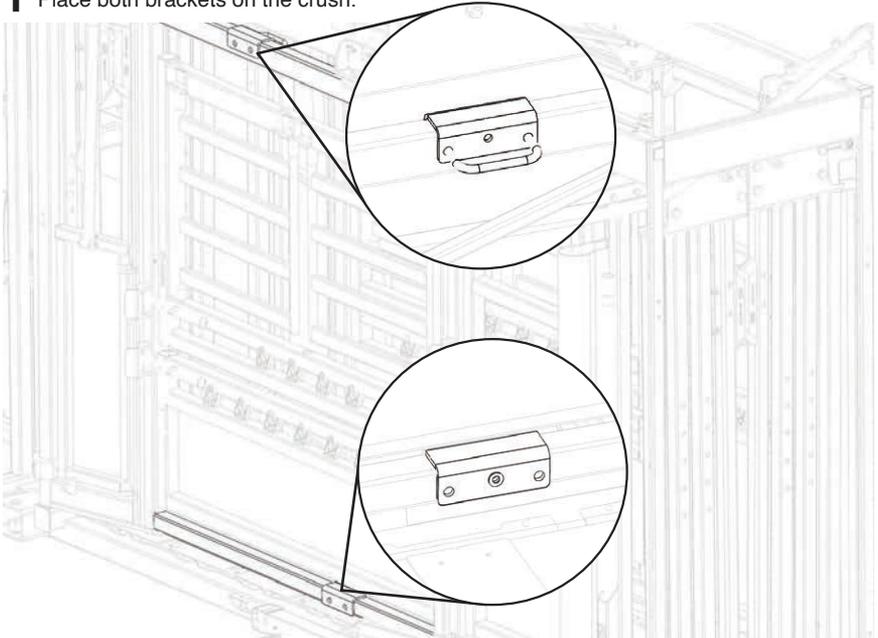
**Safety Precautions:**

1. Remove the sternum bar when working calves.

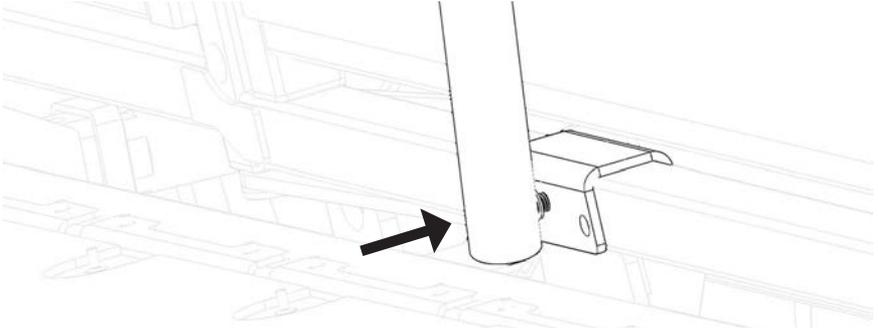
**CLIPPING RAIL**

**Installation:**

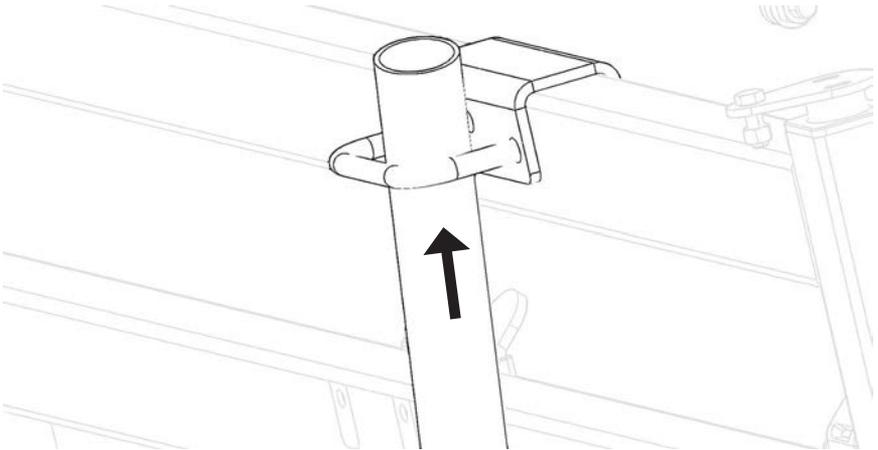
- 1** Place both brackets on the crush.



- 2** Attach the clipping rail to the bottom bracket.



- 3** Insert the clipping rail into the top bracket.



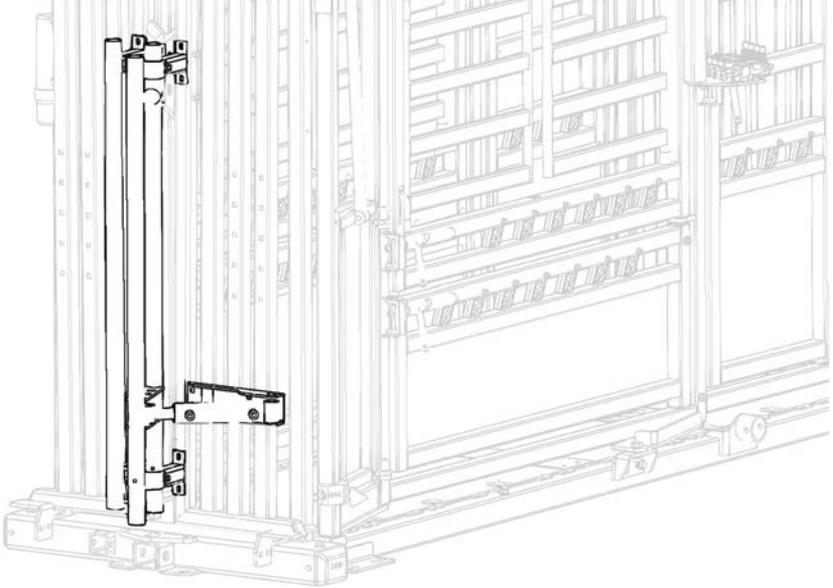
- 4** Adjust clipping rail position to your preference. Tighten bolts to secure.

**Safety Precautions:**

1. Ensure the clipping rail is installed and secured correctly before running cattle through the crush.

## HYDRAULIC HEAD SWEEP

Your Q-Power 107 Series Cattle Crush will come with the hydraulic head sweep installed. If you are having trouble with your hydraulic head sweep, contact Client Care at 01530 632002.







**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](mailto:cs@arrowquip.com).