


# OWNER'S MANUAL

## *Stack Fold Hipper*

**HC40SF, HT40SF, HR40SF – 16 row 30 / 12 row 40 / 12 row 38**  
**HC36SF, HT36SF, HR36SF – 12 row 36**  
**HC32SF, HT32SF, HR32SF – 12 row 30**



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BighamAg.com

	<p><b>⚠ WARNING</b></p> <p>To Prevent Serious Injury or Death</p> <ul style="list-style-type: none"><li>• Avoid unsafe operation or maintenance.</li><li>• Do not operate or work on this machine without reading and understanding the operator's manual.</li><li>• If manual is lost, contact your nearest dealer for a new manual.</li></ul>
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**A MESSAGE TO THE OWNER AND OPERATOR:**

This machine was carefully designed and manufactured to give you dependable service. To keep it running efficiently, read the instructions in this Operator's Manual. Check each item and acquaint yourself with the adjustments required to obtain efficient operation and maximum performance. Remember, the machines performance depends on how you operate and care for it.

After the operating season, thoroughly clean your machine and inspect it. Preventive maintenance saves time and pays dividends. Your dealer has original equipment parts which assure proper fit and best performance. Record the model number, serial number and date of purchase in the space provided on this page. Your dealer needs this information to give you efficient service when you order parts or attachments. The model number and serial number appear on the identification plate on the front left side of the tool bar mast.

The Warranty on your machine is included with this manual. Your dealer will review both this manual and the warranty with you when you take delivery of your machine.

**WARRANTY**

Bigham Ag warrants all products of its manufacture to be free from defects in materials and workmanship for a period of six months from date of delivery to the retail purchaser. Parts assumed to be defective must be returned F.O.B. Carlisle, AR for our inspection or inspected in the field by our authorized representative. Our obligation under this warranty is limited to replacement or repair of the defective part and does not cover other damages to persons or property. Other than the aforesaid, no warranties of merchantability or fitness for a particular purpose will apply. We do not assume liability for altered or remanufactured components or machines or applications beyond their intended use. Some states do not allow limitation of how long an implied warranty lasts, or exclusions of, or limitations on relief such as incidental or consequential damages, so the above limitations or exclusion may not apply to you. This warranty gives you specific legal rights and you may have other rights which vary from state to state.

Warranty does not cover damage due to abuse, neglect, collision, towing, pulling, normal wear and tear or any other factor beyond the control of the manufacturer. Tool bars that are bent, bowed or that have been welded on or modified in any way are specifically excluded from any warranties.

**Manufactured By**  
**Bigham Brothers Inc. – Carlisle, AR**

Model # \_\_\_\_\_

Serial # \_\_\_\_\_

## INTRODUCTION

Thank you for purchasing a Bigham Hipper tillage implement. We hope you will get many years of productive use from it. The Hipper can simultaneously prepare seed beds, shape furrows, and form drainage or irrigation in a single pass.

This implement is designed to be pulled by a ROPS protected tractor of proper size.

All product users must read and understand this manual prior to equipment operation. This manual is considered part of your machine and should always remain with the machine. Do not allow anyone to operate or maintain this equipment who has not fully read and comprehended this manual. Failure to follow the recommended procedures may result in personal injury or death or equipment damage.

Information in this manual is designed to help owners and operators to obtain the best results and safe operation from their investment. The life of any machine depends largely on the care it is given and we suggest that the manual should be read and understood and referred to frequently. If for any reason you do not understand the instructions and safety requirements, please contact your authorized dealer. The intent of this manual is to provide guidelines to cover general use and to assist in avoiding accidents and injuries.

There may be times when circumstances occur that are not covered in the manual. At those times it is best to use common sense and contact your authorized dealer or our factory.

The requirements of safety cannot be emphasized enough in this publication. We urge you to make safety your top priority when using and maintaining the equipment. We strongly advise that anyone allowed to operate this equipment be thoroughly trained and tested, to prove they understand the fundamentals of safe operation.

Some photographs, diagrams or illustrations in this manual may show doors, guards and shields opened or removed to aid in clarity and understanding of a particular procedure. All guards, shields and safety devices must be in their proper position prior to operation.



## SAFETY

Read and understand this manual and all safety signs before operating and maintaining. Review the safety instructions and precautions annually.

**TAKE NOTE! THIS SAFETY ALERT SYMBOL FOUND THROUGHOUT THIS MANUAL IS USED TO CALL YOUR ATTENTION TO INSTRUCTIONS INVOLVING YOUR PERSONAL SAFETY AND THE SAFETY OF OTHERS. FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN INJURY OR DEATH.**



THIS SYMBOL MEANS:

ATTENTION!




BECOME ALERT!

YOUR SAFETY IS INVOLVED!



## SAFETY SIGNAL WORDS

Note the use of the signal words **DANGER**, **WARNING** and **CAUTION** with the safety messages. The appropriate signal word for each has been selected using the following guidelines:

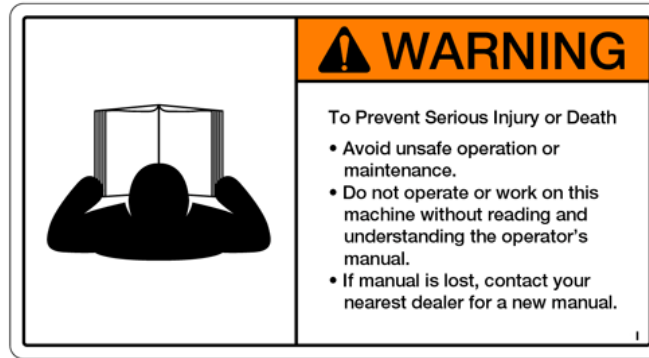
-  **DANGER:** Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury. This signal word is to be limited to the most extreme situations typically for machine components which, for functional purposes, cannot be guarded.
-  **WARNING:** Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed. It may also be used to alert against unsafe practices.
-  **CAUTION:** Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

**NOTICE** is used to address safety practices not related to personal safety.





## GENERAL SAFETY GUIDELINES



Safety of the operator and any bystanders is one of the main concerns in designing and developing a new piece of equipment. Designers and manufacturers build in as many safety features as possible. However, every year many accidents occur which could have been avoided by a few seconds of thought and a more careful approach to handling equipment. You, the operator, can avoid many accidents by observing the following precautions in this section. To avoid personal injury, study the following precautions and insist those working with you, or for you, follow them.

Replace any CAUTION, WARNING, DANGER or instruction safety decal that is not readable or is missing. Location of such decals is indicated in this booklet.

Do not attempt to operate this equipment under the influence of drugs or alcohol. Do not use the equipment if alertness or coordination is impaired.

Review the safety instructions with all users annually.

This equipment is dangerous to children and persons unfamiliar with its operation. The operator should be a responsible adult familiar with farm machinery and trained in this equipment's operations. **Do not allow persons to operate or assemble this unit until they have read this manual and have developed a thorough understanding of the safety precautions and of how it works.**

Do not read, eat, drink, talk or text or use a mobile phone while using this equipment.

To prevent injury or death, use a tractor equipped with a Roll Over Protective System (ROPS). Do not paint over, remove or deface any safety signs or warning decals on your equipment. Observe all safety signs and practice the instructions on them.

Never exceed the limits of a piece of machinery. If its ability to do a job, or to do so safely, is in question – **DO NOT TRY IT.**

Stay clear of any moving parts, such as shafts, couplings and universal joints.

Do not allow anyone to ride on any part of the equipment for any reason.

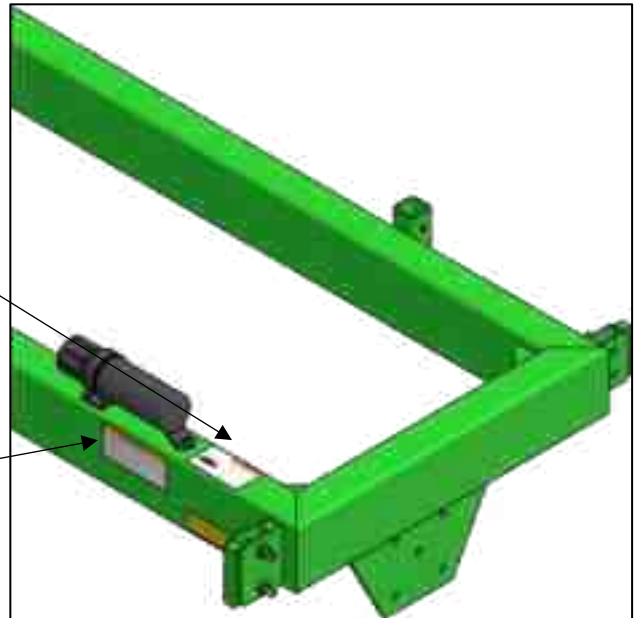
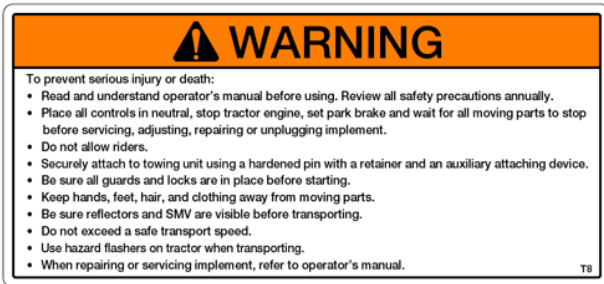
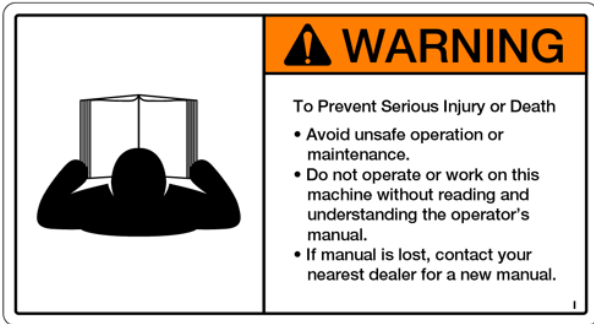
Assure that all bystanders are at a safe distance before operating or maintaining this equipment.



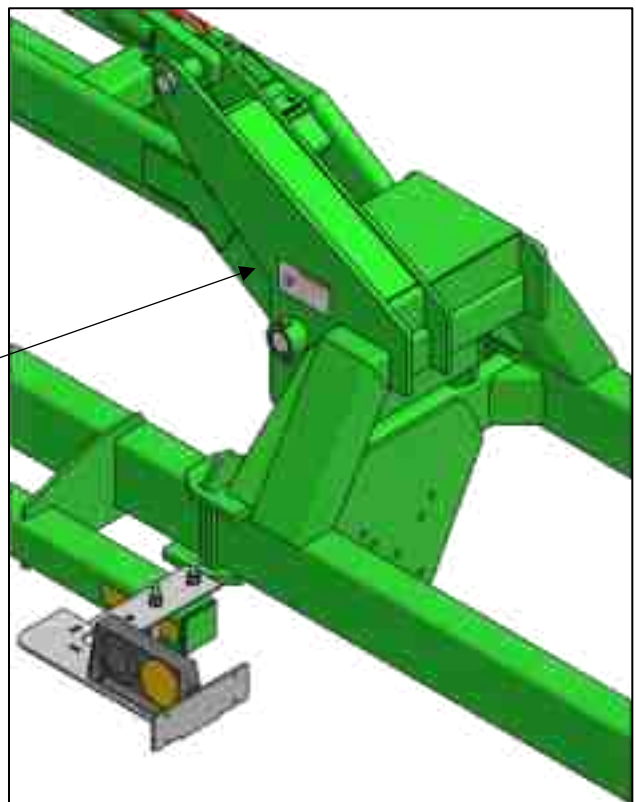
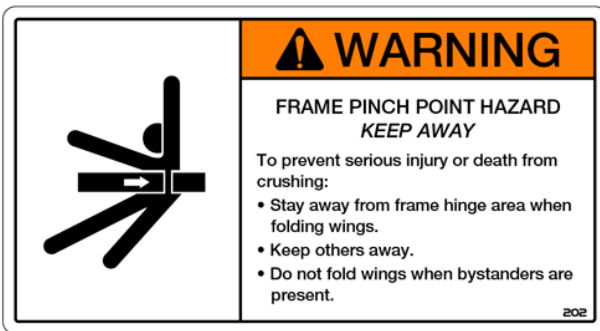


# SAFETY SIGN LOCATIONS

Safety Sign location is shown below.




Front of Toolbar, End of LH Wing




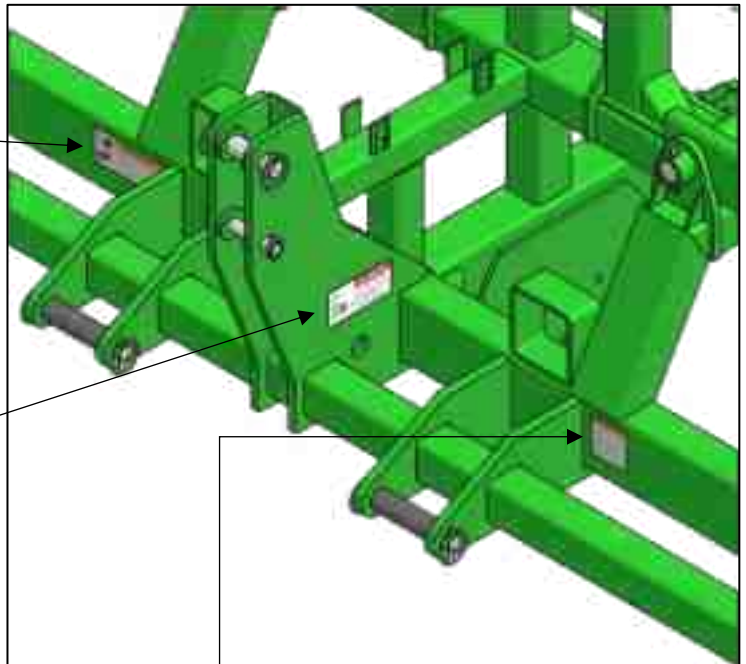
Front of Toolbar, LH Hinge

	<p><b>⚠ WARNING</b></p> <p><b>HIGH-PRESSURE FLUID HAZARD</b></p> <p>To prevent serious injury or death:</p> <ul style="list-style-type: none"> <li>• Relieve pressure on hydraulic system before servicing or disconnecting hoses.</li> <li>• Wear proper hand and eye protection when searching for leaks. Use wood or cardboard instead of hands.</li> <li>• Keep all components in good repair.</li> </ul> <p>T9</p>
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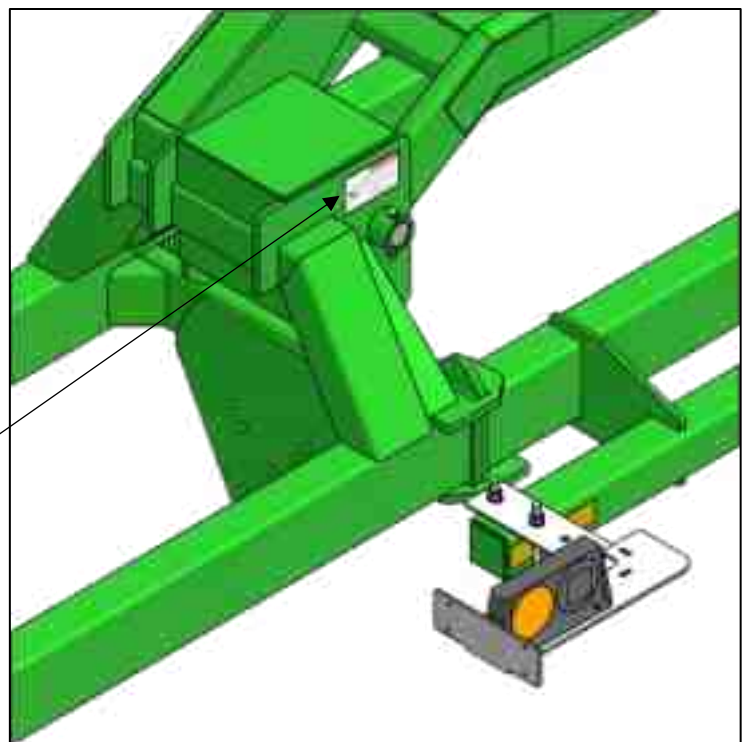
	<p><b>⚠ DANGER</b></p> <p><b>CRUSHING HAZARD</b></p> <p>To prevent serious injury or death:</p> <ul style="list-style-type: none"> <li>• Do not stand between implement and moving tractor.</li> <li>• Stop tractor engine and set park brake before installing pins.</li> </ul> <p>T3</p>
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<p><b>⚠ WARNING</b></p>	
<p><b>MOVING PART HAZARD</b></p>	
<p>To prevent serious injury or death from moving parts:</p>	
<ul style="list-style-type: none"> <li>• Close and secure guards and shields before starting.</li> <li>• Keep hand, feet, hair and clothing away from moving parts.</li> <li>• Disconnect and lockout power source before adjusting or servicing.</li> <li>• Do not stand or climb on machine when operating.</li> </ul>	
<p>406</p>	

	<p><b>⚠ DANGER</b></p> <p><b>ELECTROCUTION HAZARD</b></p> <p>To prevent serious injury or death:</p> <ul style="list-style-type: none"> <li>• Stay away from power lines when transporting, extending or folding implement.</li> <li>• Electrocution can occur without contacting power lines.</li> </ul> <p>T2</p>
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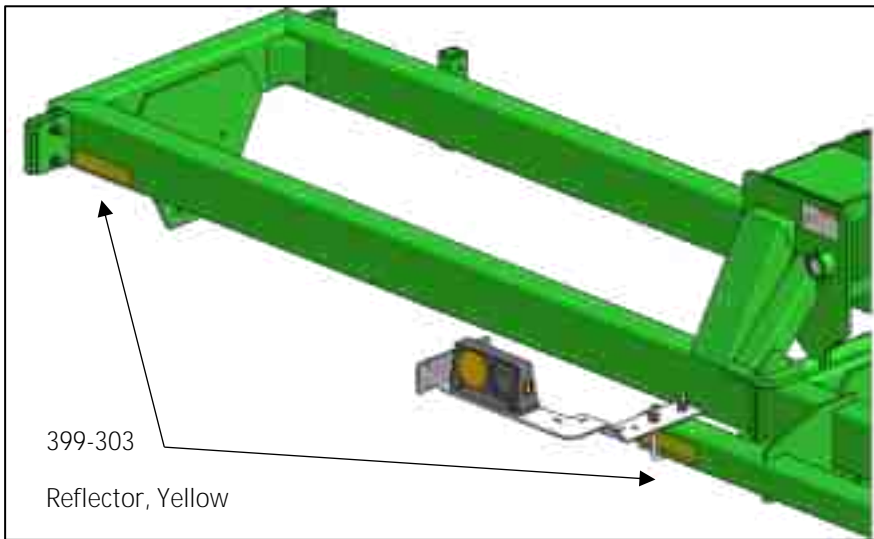


3-Point Hitch

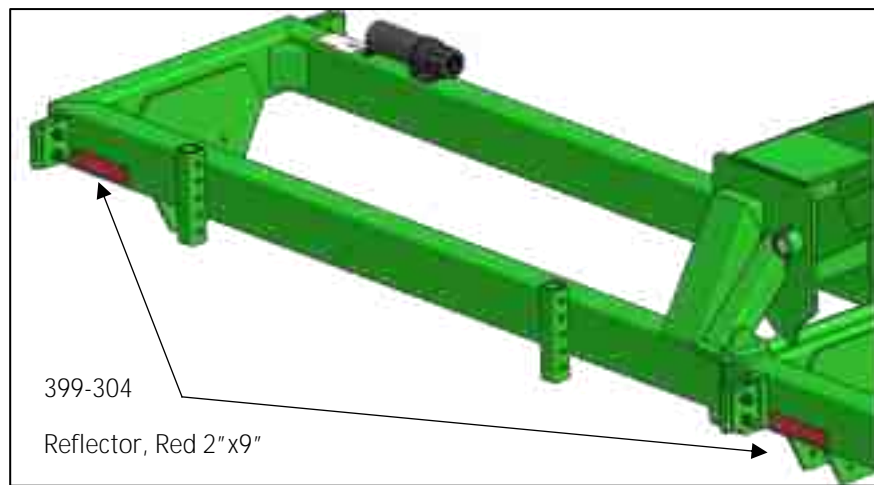


Front of Toolbar, RH Hinge

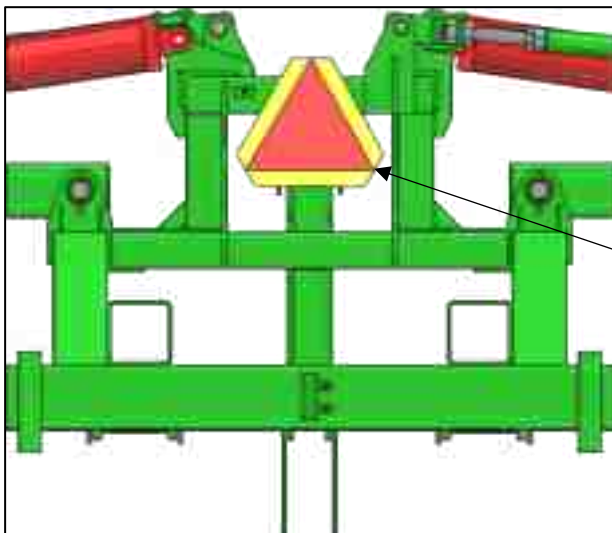




**Front of Toolbar, End of Wing & Center**



**Rear of Toolbar, End of Wing & Center**



**Rear of Toolbar, Center Frame**

399-300  
Sign, SMV 2-Hole Galvanized

**REMEMBER:** If Safety Signs have been damaged, removed, become illegible or parts replaced without decals, new decals must be applied. New decals are available from your authorized distributor or factory.



## SAFETY DECAL CARE

- Keep safety signs clean and legible at all times.
- Replace safety signs that are missing or have become illegible.
- Replaced parts that displayed a safety sign should also display the current sign.
- Safety signs are available from your Distributor or Dealer Parts Department or the factory.

### How to Install Safety Signs:

- Be sure that the installation area is clean and dry.
- Decide on the exact position before you remove the backing paper.
- Remove the smallest portion of the split backing paper.
- Align the decal over the specified area and carefully press the small portion with the exposed sticky backing in place.
- Slowly peel back the remaining paper and carefully smooth the remaining portion of the decal in place.
- Small air pockets can be pierced with a pin and smoothed out using the piece of decal backing paper.



## TIRE SAFETY



- Failure to follow proper procedures when mounting a tire on a wheel or rim can produce an explosion which may result in serious injury or death.
- Do not attempt to mount a tire unless you have the proper equipment and experience to do the job.
- Inflating or servicing tires can be dangerous. Whenever possible, trained personnel should be called to service and/or mount tires.
- Always order and install tires and wheels with appropriate capacity to meet or exceed the anticipated weight to be placed on the equipment.
- Tire changing can be dangerous and should be performed by trained personnel using the correct tools and equipment.

- When inflating tires, use a clip-on chuck extension hose long enough to allow you to stand to one side NOT in front of or over the tire assembly. Use a safety cage if available.
- When removing and installing wheels, use wheel handling equipment adequate for the weight involved.
- The rims and tires should be mounted on the feeder with the valve stem to the inside. We use reverse disc rims as a protection that livestock do not step on the valve stems and break them off. Be sure you have proper tire pressure and the lug nuts are properly tightened. Check wheel bearings on a regular basis and grease semiannually.



## LIGHTING AND MARKING

- It is the responsibility of the customer to know the lighting and marking requirements of the local highway authorities and to install and maintain the equipment to provide compliance with the regulations. Add extra lights when transporting at night or during periods of limited visibility.
- Lighting kits ship standard with each unit from the Bigham factory.
- An SMV emblem ships standard on each unit from the Bigham factory. Always ensure the emblem is in place when transporting on public roadways. Keep it clean and bright.



## PERSONAL PROTECTIVE EQUIPMENT



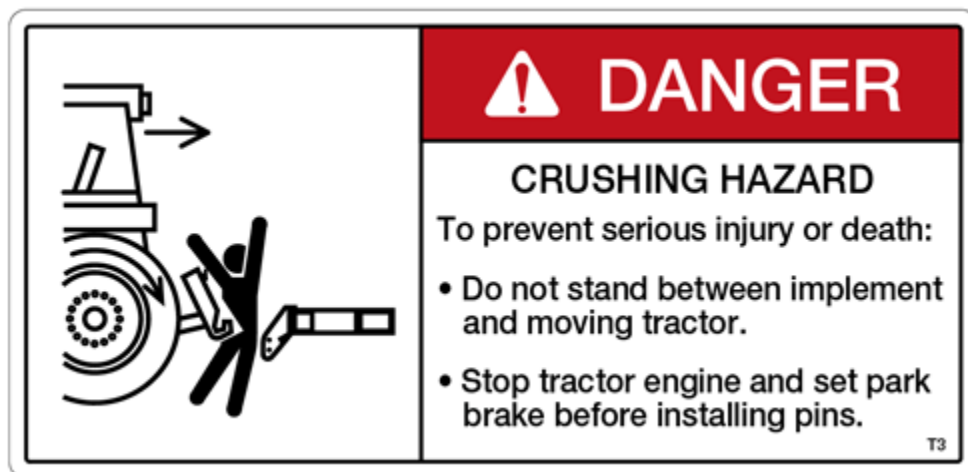
- Wear protective clothing and equipment appropriate for the job, such as safety shoes, safety glasses, hard hat and ear plugs.
- Clothing should fit snug without fringes or pull strings to avoid entanglement with moving parts.
- Prolonged exposure to loud noise can cause hearing impairment or hearing loss. Wear suitable hearing protection such as ear muffs or earplugs.
- Operating equipment requires the operator's full attention. Avoid wearing radio headphones or earbuds while operating equipment.



## BEFORE OPERATION

- Carefully study and understand this manual.
- Do not wear loose-fitting clothing which may catch in moving parts.
- Always wear protective clothing and substantial shoes.
- Keep wheel lug nuts or bolts tightened to specified torque.
- Assure that agricultural implement tires are inflated evenly.
- Give the unit a visual inspection for any loose bolts, worn parts or cracked welds, and make necessary repairs. Follow the maintenance safety instructions included in this manual.
- Be sure that there are no tools lying on or in the equipment.
- Do not use the unit until you are sure that the area is clear, especially children and animals.
- Don't hurry the learning process or take the unit for granted. Ease into it and become familiar with your new equipment.

- Practice operation of your equipment and its attachments. Completely familiarize yourself and other operators with its operation before using.
- Use a tractor equipped with a Roll Over Protective System (ROPS) and fasten your seat belt prior to starting the engine.



## DURING OPERATION

- Children should never be allowed on the equipment.
- Never carry riders or allow children to operate equipment.
- Clear the area of small children and bystanders before moving the equipment.
- Securely attach equipment to towing unit, using a hardened 3/4" pin, a metal retainer, and safety chains if required. Shift towing unit to a lower gear before going down steep downgrades, thus using the engine as a retarding force. Keep towing vehicle in gear at all times. Slow down for corners and rough terrain.
- Make sure you are in compliance with all local and state regulations regarding transporting equipment on public roads and highways. Lights and slow moving signs must be clean and visible by overtaking or oncoming traffic when feeder is transported.
- SAFETY CHAIN - If equipment is going to be transported on a public highway, a safety chain should be obtained and installed. Always follow state and local regulations regarding a safety chain and auxiliary lighting when towing farm equipment on a public highway. Be sure to check with local law enforcement agencies for your own particular regulations. Only a safety chain (not an elastic or nylon/plastic tow strap) should be used to retain the connection between the towing and towed machines in the event of separation of the primary attaching system.
- Install the safety chain by crossing the chains under the tongue and secure to the draw bar cage or hitch or bumper frame.
- Beware of bystanders, **particularly children!** Always look around to make sure that it is safe to start the engine of the towing vehicle or move the unit. This is particularly important with higher noise levels and quiet cabs, as you may not hear people shouting.
- **NO PASSENGERS ALLOWED** - Do not carry passengers anywhere on, or in, the tractor or equipment, except as required for operation.



- Keep hands and clothing clear of moving parts.
- Always keep all shields and guards in place and securely fastened.
- Do not clean, lubricate or adjust your equipment while it is moving.
- When halting operation, even periodically, set the tractor or towing vehicle brakes, disengage the PTO, shut off the engine and **remove the ignition key**.
- Be especially observant of the operating area and terrain - watch for holes, rocks or other hidden hazards. Always inspect the area prior to operation.
  - **DO NOT** operate near the edge of drop-offs or banks.
  - **DO NOT** operate on steep slopes as overturn may result.
  - Operate up and down (not across) intermediate slopes. Avoid sudden starts and stops.



## HIGHWAY AND TRANSPORT OPERATIONS

- Adopt safe driving practices:
  - Keep the brake pedals latched together at all times. **NEVER USE INDEPENDENT BRAKING WITH MACHINE IN TOW AS LOSS OF CONTROL AND/OR UPSET OF UNIT CAN RESULT.**
  - Always drive at a safe speed relative to local conditions and ensure that your speed is low enough for an emergency stop to be safe and secure. Keep speed to a minimum.
  - Reduce speed prior to turns to avoid the risk of overturning.
  - Avoid sudden uphill turns on steep slopes.
  - Always keep the tractor or towing vehicle in gear to provide engine braking when going downhill. Do not coast.
  - Do not drink and drive!
- Comply with state and local laws governing highway safety and movement of farm machinery on public roads.
- Use approved accessory lighting flags and necessary warning devices to protect operators of other vehicles on the highway during daylight and nighttime transport. Various safety lights and devices are available from your dealer.
- The use of flashing amber lights is acceptable in most localities. However, some localities prohibit their use. Local laws should be checked for all highway lighting and marking requirements.
- When driving the tractor and equipment on the road or highway under 40 kph (20 mph) at night or during the day, use flashing amber warning lights and a slow moving vehicle (SMV) identification emblem.
- Plan your route to avoid heavy traffic.

- Be a safe and courteous driver. Always yield to oncoming traffic in all situations, including narrow bridges, intersections, etc.
- Be observant of bridge loading ratings. Do not cross bridges rated lower than the gross weight as which you are operating.
- Watch for obstructions overhead and to the side while transporting.
- Always operate equipment in a position to provide maximum visibility at all times. Make allowances for increased length and weight of the equipment when making turns, stopping the unit, etc.
- Pick the levelest possible route when transporting across fields. Avoid the edges of ditches or gullies and steep hillsides.
- Be extra careful when working on inclines.
- Maneuver the tractor or towing vehicle at safe speeds.
- Avoid overhead wires or other obstacles. Contact with overhead lines could cause serious injury or death.
- Avoid loose fill, rocks and holes; they can be dangerous for equipment operation or movement.
- Allow for unit length when making turns.
- Operate the towing vehicle from the operator's seat only.
- Never stand alongside of unit with engine running or attempt to start engine and/or operate machine while standing alongside of unit.
- Never leave running equipment attachments unattended.
- As a precaution, always recheck the hardware on equipment following every 100 hours of operation. Correct all problems. Follow the maintenance safety procedures.



## **FOLLOWING OPERATION**

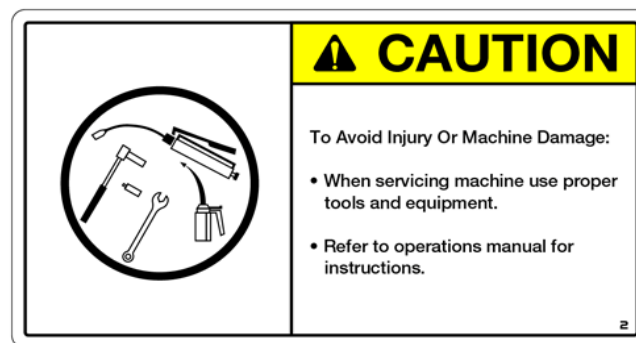
- Following operation, or when unhitching, stop the tractor or towing vehicle, set the brakes, disengage the PTO and all power drives, shut off the engine and **remove the ignition keys**.
- Clean, inspect, service and make necessary repairs to the equipment when parking it for long periods of time or at the end of a working season. This will help ensure that the unit will be ready for use the next time you hook up to it.
- Store the unit in an area away from human activity.
- Do not park equipment where it will be exposed to livestock for long periods of time. Damage and livestock injury could result.
- Do not permit children to play on or around the stored unit.
- Make sure all parked machines are on a hard, level surface and engage all safety devices.

- Wheel chocks may be needed to prevent unit from rolling.



## PERFORMING MAINTENANCE

- Do not allow anyone to perform maintenance on this equipment who has not been properly trained in its safe operation.



- Good maintenance is your responsibility. Poor maintenance is an invitation to trouble. Proper servicing and adjustments are key to the long life of any implement. With careful inspection and routine maintenance, costly downtime and repairs can be avoided.
- Some parts and assemblies can be quite heavy. Before attempting to unfasten any part or assembly, arrange to support it by means of a hoist, by blocking or by use of an adequate arrangement to keep it from falling, tipping, swinging or moving in any manner which may hurt somebody or damage the equipment.
- Always use lifting equipment that is adequately rated to do the job. Never lift equipment over people.
- Make sure there is plenty of ventilation. Never operate the engine of the towing vehicle in a closed building. The exhaust fumes may cause asphyxiation.
- Before working on the equipment, stop the towing vehicle, set the brakes, disengage the PTO and all power drives, shut off the engine and **remove the ignition keys**.
- Be certain all moving parts on attachments have come to a complete stop before attempting to perform maintenance.
- **Always** use a safety support and block the wheels. Never use a jack to support the equipment.
- Always use the proper tools or equipment for the job at hand.
- Use extreme caution when making adjustments.

- Never replace hex bolts with less than grade five bolts unless otherwise specified.
- After servicing, be sure all tools, parts and service equipment are removed.
- Where replacement parts are necessary for periodic maintenance and servicing, genuine factory replacement parts must be used to restore your equipment to original specifications. The manufacturer will not claim responsibility for use of unapproved parts and/or accessories and other damages as a result of their use.
- If equipment has been altered in any way from original design, the manufacturer does not accept any liability for injury or warranty.
- Do not alter the equipment or replace parts with other brands. Doing so can cause the equipment to perform improperly and may lead to breakage causing bodily injury or death.



- If repairs require the use of a torch or electric welder, be sure that all flammable and combustible materials are removed.
- Do not weld or cut on any tank containing oil, fuel or their fumes or other flammable material, or any container whose previous contents are unknown.
- Cleaning solvents should be used with care. Petroleum based solvents are flammable and present a fire hazard. Don't use gasoline. All solvents must be used with adequate ventilation and their vapors should not be inhaled.

## Stack Lock Adjustment

The BIGHAM Ag Stack Fold Hipper Implement is equipped with the BIGHAM STACK LOCK feature. This feature helps lock the two lift arms together when the Implement is in the Stacked (folded) position. To ensure that this Stack Lock Feature is always engaged, there has been some adjustment built into the assembly. To make those adjustments, please refer to the steps below.

STACK LOCK not engaging properly (i.e. not meeting in the middle) –

- With the arms in the folded position, take a measurement of how far the components are from touching.
- Fold the arms down, and add shims as necessary to close the gap between the male (**Figure 2**) and female (**Figure 1**) sides of the Stack Lock assembly. Longer bolts may be needed as shims are added.
- Stack Lock Assembly should engage just before the arms are fully folded to ensure a proper engagement.

STACK LOCK alignment is off vertically or horizontally –

- Slightly loosen the bolts of the male & female components. Both mounting plates are slotted in opposite directions. Move the plates as necessary to ensure proper alignment.
- Fold the arms and make sure that the alignment is correct, then unfold the arms and tighten the bolts.



Figure 1

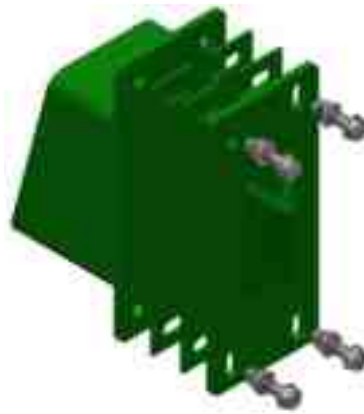


Figure 2



Figure 3 (STACK LOCK engagement)

## Storage Stand Use

The adjustable storage stands on the back of the hipper are designed to be used when the unit is **not** in field operation. FAILURE TO PROPERLY RAISE AND PIN THE STORAGE STANDS WILL RESULT IN DAMAGE TO THE STANDS, AND POSSIBLY THE HIPPER FRAME, WHEN OPERATING THE HIPPER IMPLEMENT!!



## Furrowing Plow Adjustment

The Hipper Implement is equipped with an adjustable foot piece for mounting the furrow plow. Different size plows with different bolt configurations can be mounted to the foot piece for different field conditions. The type of soil, the soil conditions, and the speed of the tractor can all contribute to the type of furrow needed for each farming operation. Slotted sweeps come standard with the Hipper Implement, but if the Hipper Implement is equipped with a single mounting bolt in the plow, make sure the furrowing plow is aligned properly with the furrow shank. If the plow is mounted with a tilt to one side of the shank it could result in the furrowing plow throwing more soil to one side of the furrow than the other, creating undesirable seedbed formation.

## Setting the Furrowing Plow Depth

Each Hipper Implement comes from BIGHAM with a specific set up on the furrowing plow depth. A general good initial setting is with the Hipper Implement drum, chopper, or tumbler basket 4" to 4.5" from a good flat surface when the furrow plows are evenly touching the same flat surface. Depth of each assembly can be adjusted individually by loosening the stud bolts (shown in **Figure 4**) of each furrow assembly and lowering or raising the shank to the desired depth for the application. Always tighten the stud bolts properly prior to operation of the Hipper Implement to ensure the Furrowing Plows keep the desired adjustment.



Figure 4

## Maintaining Furrow Depth

It is critically important to maintain a uniform depth to the furrows created by the Hipper Implement. Maintaining the depth of the furrow can be done by adjusting the two (2) gauge wheel assemblies provided with the Hipper Implement. Adjustment procedures for the gauge wheel assemblies are shown on pg. 14 of this document.

## Linkage Arm Adjustment

To create a more desirable seedbed, your BIGHAM Hipper Implement may be equipped with a set of rear basket assemblies attached to the Hipper Implement Frame with a set of Adjustable Linkage Arms (**Figure 5**). These arms allow adjustment for both height and down-pressure to assist in the formation of a proper seedbed for planting. Adjustment for those two variables is described below.

### Linkage Arm Height Adjustment –

Each Linkage arm can be moved upward and downward on the mounting tubes on the rear of the Hipper Implement frame. This adjustment is made by loosening and removing the two bolts attaching the arm, raising or lowering the arm as desired, and re-inserting the two bolts into the next set of alignment holes. Make sure to tighten the bolts once the desired adjustment is complete. Linkage Arms Must be adjusted in pairs, or the arms will not move.

### Spring Down-Pressure Adjustment –

Each Linkage arm also has a built in down-pressure spring to ensure that the rear tumbler baskets stay engaged with the ground and prepare the seedbed correctly. If **more** down-pressure is desired, tighten the spring bolt by turning the nut **clockwise**. If **less** down-pressure is desired, loosen the spring bolt by turning the nut **counter-clockwise**. When decreasing the pressure, do **NOT** loosen the nut past the nylon insert in the nut.



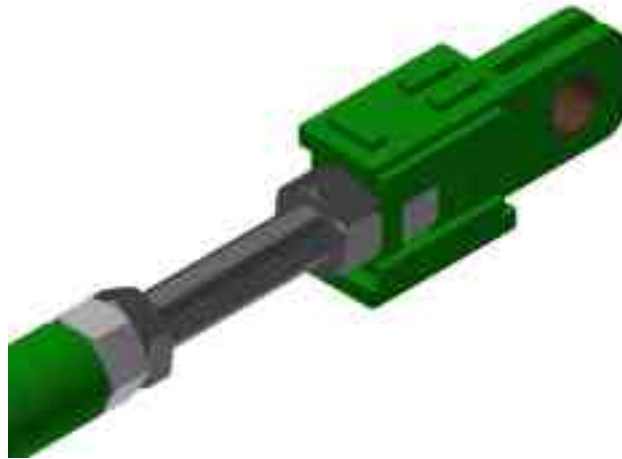
**Figure 5**

## Wing Leveling Adjustment

Each BIGHAM Stack Fold Hipper Implement is equipped with heavy duty leveling bars that hold the wings level with the rest of the Hipper Implement frame. These leveling bars have a built in adjustment point to ensure that the Hipper Implement both stays engaged with the ground correctly, and folds without interference. The Leveling bar assembly is shown in **Figure 6**, and the adjustment end assembly is shown in **Figure 7**.



**Figure 6**



**Figure 7**

To level the wings, loosen the jam nut in the left of Figure 7, and adjust the nut in the right of Figure 7. Adjust the nut **clockwise to raise** the wing. Adjust the nut **counter-clockwise to lower** the wing. Making this adjustment will not only assist in the leveling of the wing assembly for more even engagement to the ground, but will also assist in the ease of folding the wings. If the wing assemblies are hanging up through the process of the fold, look to see if an adjustment needs to be made, and adjust the leveling bars as necessary.

## Gauge Wheel Adjustment

Make sure to adjust the gauge wheel assemblies on your Stack Fold Hipper Implement to engage the ground in the furrow in front of the furrowing plows. Adjustment of the vertical alignment is done with the turn buckle shown in **Figure 8**. Horizontal adjustment of the wheel assembly is done by adjusting the axle in or out, shown in **Figure 9**. After final adjustments, make sure to tighten the jam nut of the turn buckle or the axle keeper bolts as necessary.



Figure 8



Figure 9

## Spare Parts Breakdown & Ordering

To have the best equipment possible, only Genuine BIGHAM Parts should be ordered. To fulfill all parts needs by both the Dealer and the Farmer, BIGHAM has a very capable and friendly parts department at both our Carlisle, AR and Lubbock, TX locations. When replacement parts are required, please call into either location with the Genuine BIGHAM part numbers listed in the sections below. Contact information for both sites is as follows:

BIGHAM AG – Carlisle  
1200 E. Durkee St.  
Carlisle, AR 72024  
Phone: (870) 552-7518

BIGHAM AG – Lubbock  
705 East Slaton Road  
P.O. Box 3338  
Lubbock, TX 79452  
Phone: (806) 745-0384

Remember when ordering to have the Model number and Serial number of your unit ready to ensure that the proper part revisions are ordered for your specific BIGHAM Hipper Implement. All part numbers necessary for each piece of equipment are shown below in the specific item parts breakdowns.



# FRAME HITCH COMPONENTS

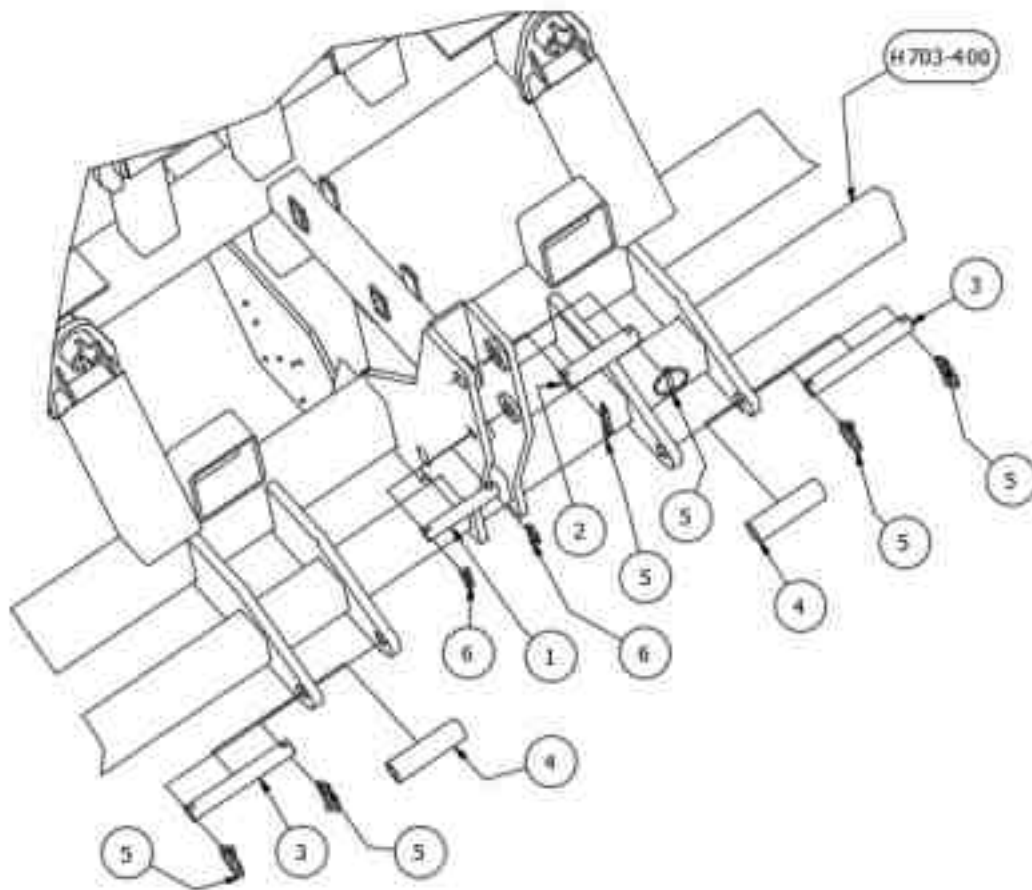


Table 1 - Frame Hitch Components

Item	Part Number	Description	Quantity per Unit
1	H617-190	Cat 3 Top Link Hitch Pin	1
2	H617-191	Cat 4 Top Link Hitch Pin	1
3	H617-196	Cat 3/4 Bottom Hitch Pin	2
4	H312-404	Cat 4 Bottom Hitch Pin Spacer Sleeve	2
5	H230-123	7/16" Lynch Pin	6
6	H617-104	5/16" Lynch Pin	2

## WING FRAME ASSEMBLY COMPONENTS

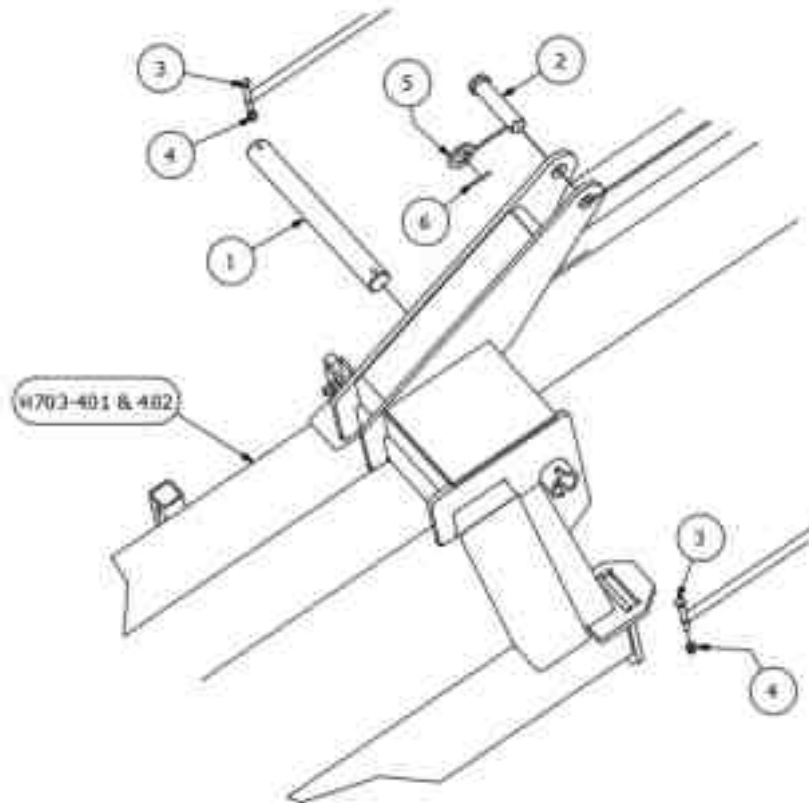
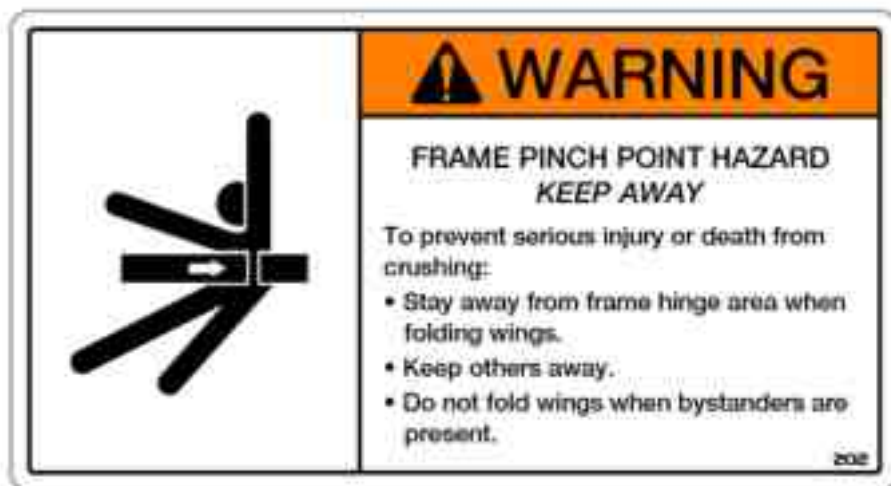


Table 2 - Frame Wing Assembly Components

Item	Part Number	Description	Quantity per Unit
1	H312-524	Lift Arm Pivot Pins	4
2	617-907	Wing End Leveling Bar Pin	2
3	602-0816Z	1/2" Gr. 5 Zinc Plated Bolt X 4" Long	8
4	613-0800Z	1/2" Gr. 5 Zinc Plated Nylock Nut	8
5	616-1802Z	1 1/2" Zinc Plated Flat Washer	4
6	617-056	1/4" Roll Pin X 2" Long	4



## LEVELING BAR COMPONENTS

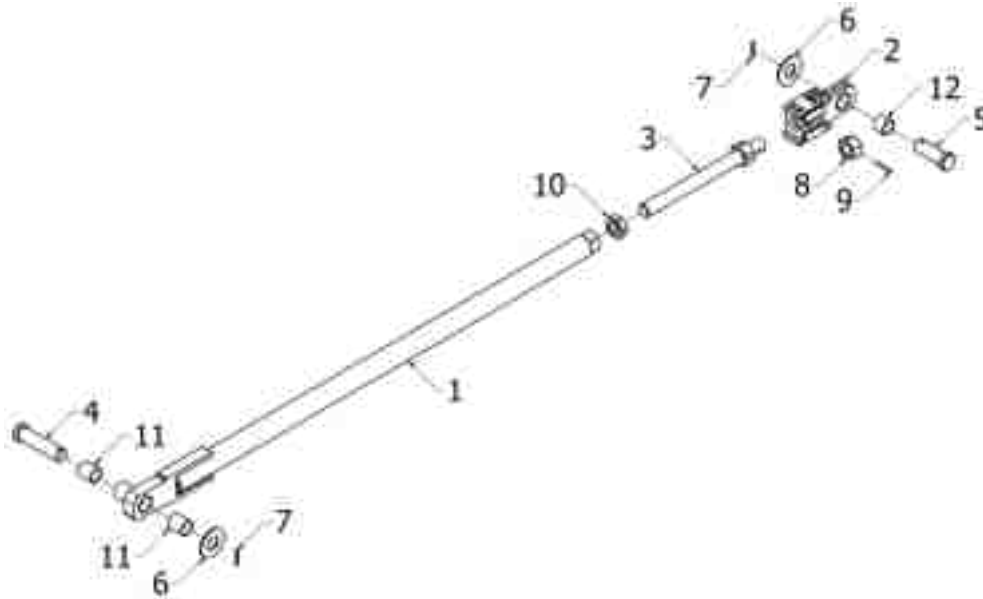


Table 3 – Leveling Bar Components

Item	Part Number	Description
1	See Table 4	Leveling Bar Tube Weldment - includes Item 11 (x2)
2	H703-409	Leveling Bar Adjustment End Weldment - includes item 12
3	H703-408R	Leveling Bar Threaded Rod Assembly
4	617-907	Pin, 1-1/2" x 6"
5	617-901	Pin, 1-1/2" x 4"
6	616-1802Z	Washer, Flat 1-1/2" ZP
7	617-056	Roll Pin, 1/4" x 2" ZP
8	611-2401Z	Nut, Hex 1-1/2" ZP
9	617-040	Pin, Dowel 1/4" x 2-1/4"
10	614-2400	Nut, Hex 1-1/2" Jam ZP
11	624-030	Bushing, Bronze 1-3/4" x 1-3/8" x 2.0"
12	624-032	Bushing, Bronze 1-3/4" x 1-3/8"

Table 4 – Leveling Bar Tube Weldments by Whole Good Model

Item	Part Number	Description
1	H703-408	Leveling Bar Tube Weldment, H40SF
1	H703-367	Leveling Bar Tube Weldment, H36SF
1	H703-548	Leveling Bar Tube Weldment, H32SF

### Complete Leveling Bar Assembly Part Numbers:

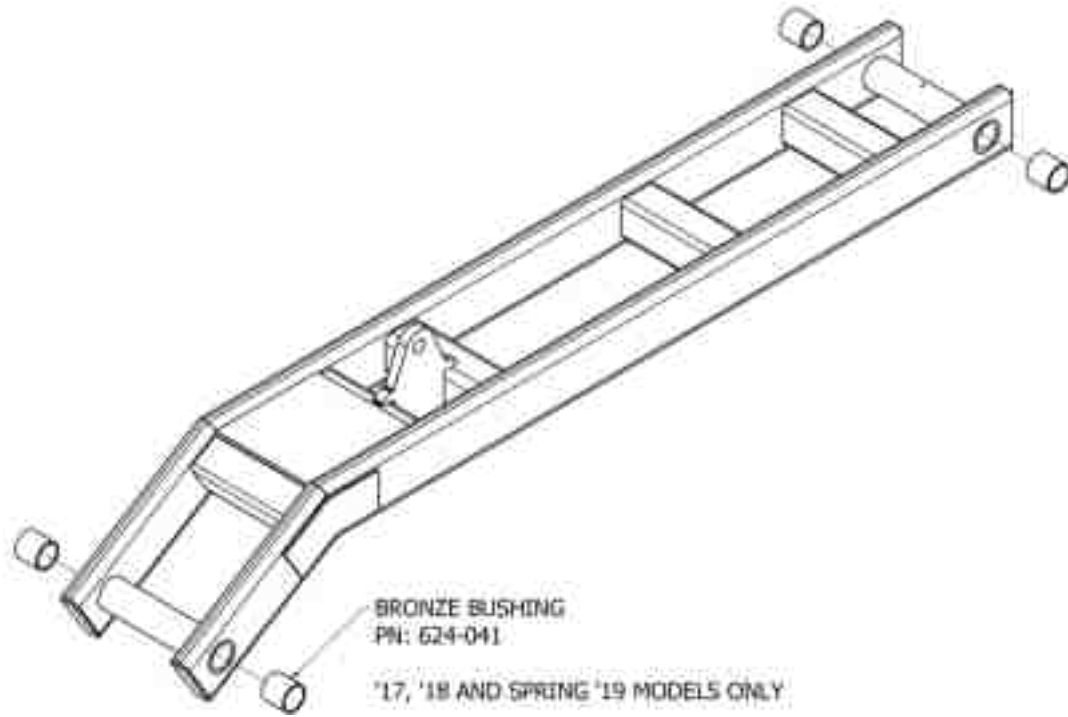
*(includes all items above)*

H703-405      Leveling Bar Assembly, H40SF

H703-365      Leveling Bar Assembly, H36SF

H703-549      Leveling Bar Assembly, H32SF

## Lift Arm Assemblies



Complete Lift Arm Assembly Part Numbers:

H703-403	Lift Arm Weldment, H40SF
H703-364	Lift Arm Weldment, H36SF
H703-453	Lift Arm Weldment, H32SF

Bronze Bushing:

624-041      2-1/2" ID x 2-5/8" OD Bronze Bushing x 2-1/2" Length

Note: Bronze bushings only for 2017, 2018, and early 2019 model Stack Fold Hipers.



## Stack Lock Assemblies

To assist with the stability of the BIGHAM Stack Fold Hipper Implement during folded transportation, BIGHAM has integrated the STACK LOCK feature into each unit. This feature locks the two lift arms together when the Hipper Implement is folded into the stacked position. The components needed for these assemblies are listed below.

### Female Stack Lock Assembly -

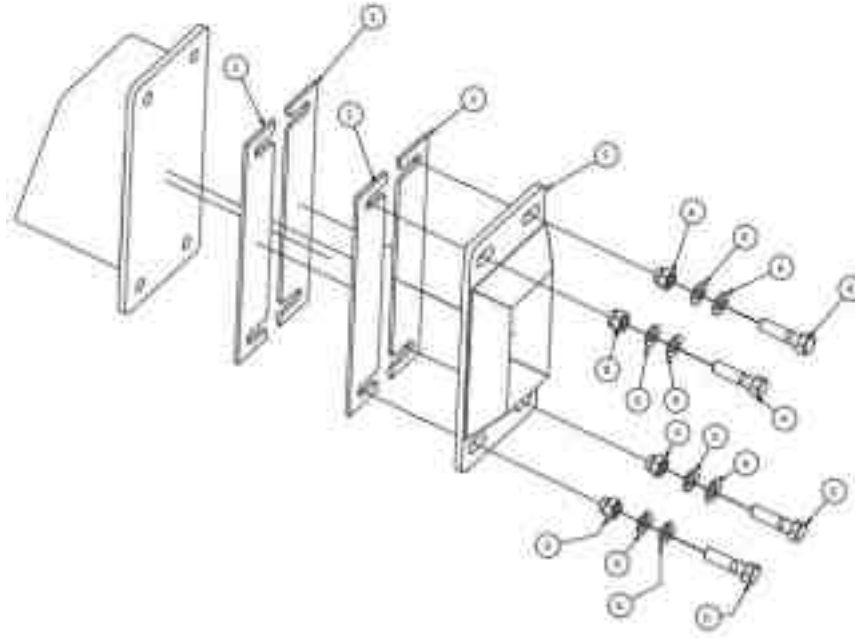


Table 5 - Female Stack Lock Assembly P/N: H703-411			
Item	Part Number	Description	Quantity per Unit
1	H703-411C	Female Stack Lock Engagement Weldment	1
2	H310-518	H40SF Stack Lock Shim Plate	4
3	602-0606Z	3/8" Gr. 5 Zinc Plated Bolt X 1 1/2" Long	4
4	613-0600Z	3/8" Gr. 5 Zinc Plated Nylock Nut	4
5	616-0600Z	3/8" Zinc Plated Flat Washer	8



## Male Stack Lock Assembly

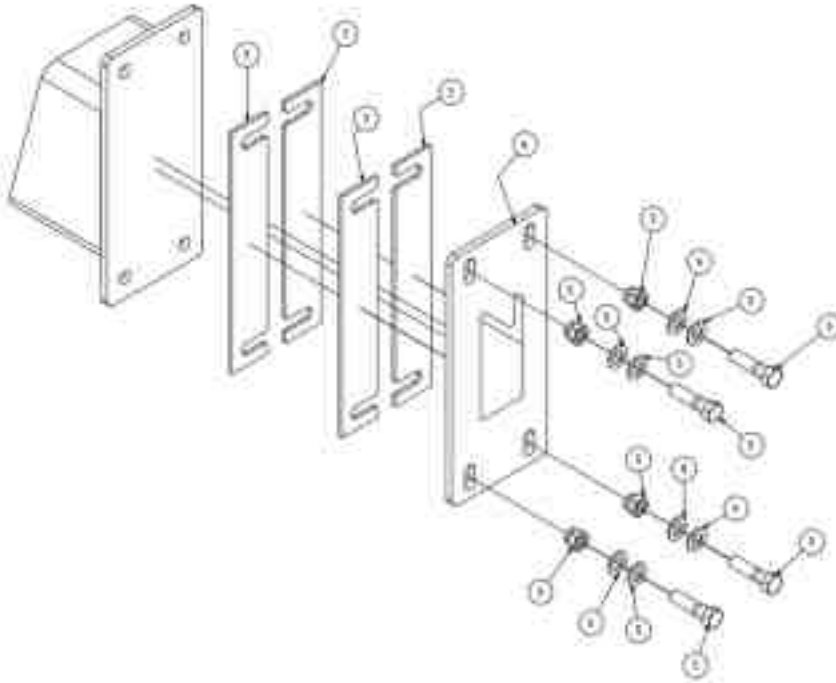


Table 6 - Male Stack Lock Assembly P/N: H703-412

Item	Part Number	Description	Quantity per Unit
1	H703-412C	Male Stack Lock Engagement Weldment	1
2	H310-518	H40SF Stack Lock Shim Plate	4
3	602-0606Z	3/8" Gr. 5 Zinc Plated Bolt X 1 1/2" Long	4
4	613-0600Z	3/8" Gr. 5 Zinc Plated Nylock Nut	4
5	616-0600Z	3/8" Zinc Plated Flat Washer	8

## Rear Basket Assemblies

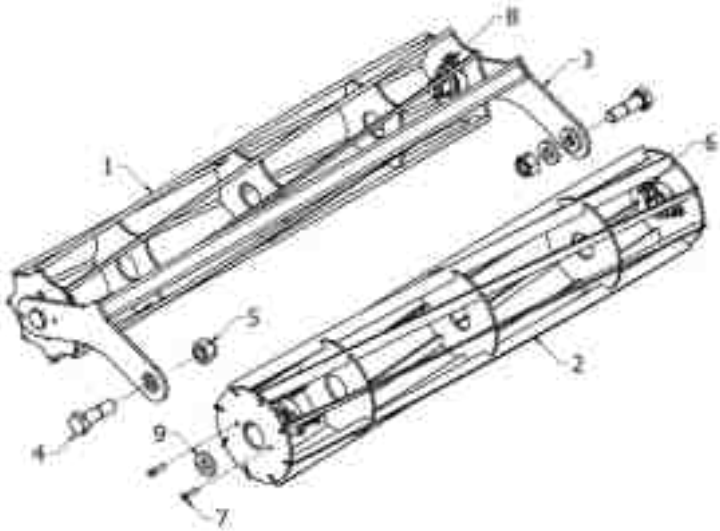


Table 7 - Rear Basket Assemblies			
Item	Part Number	Description	Quantity per Unit
1	See Table 8	Rear Basket, Round Bar	2
2	See Table 9	Rear Basket, Flat Bar	2
3	See Table 10	A-Frame Weldment	2
4	602-2420Z	1 1/2" Gr. 5 Zinc Plated Bolt X 5" Long	16
5	613-2400Z	1 1/2" Zinc Plated Nylock Nut	16
6	622-084	1 1/2" 2 bolt Bearing Assembly	16
7	602-0808Z	1/2" Gr. 5 Zinc Plated Bolt x 2" Long	32
8	613-0800Z	1/2" Zinc Plated Nylock Nut	32
9	H312-001	HC Tumbler Bolt Bushing	16

Table 8 – Rear Baskets, Round Bar		
	Center	Wing
HC40SF	H785-230 (106.5")	H785-235 (119.5")
HC36SF	H785-231 (103.0")	H785-231 (103.5")
HC32SF	H785-232 (84.5")	H785-232 (84.5")

Table 9 - Rear Basket, Flat Bar		
	Center	Wing
HC40SF	H785-220 (106.5")	H785-225 (119.5")
HC36SF	H785-221 (103.0")	H785-221 (103.0")
HC32SF	H785-222 (84.5")	H785-222 (84.5")

Table 10 – A-Frame Weldment		
	Center	Wing
HC40SF	H785-210 (107.5")	H785-215 (120.5")
HC36SF	H785-211 (104.0")	H785-211 (104.0")
HC32SF	H785-212 (85.5")	H785-212 (85.5")

Table 11 – Rear Tumbler Assemblies, Double		
	Center	Wing
HC40SF	H785-200	H785-205
HC36SF	H785-201	H785-201
HC32SF	H785-202	H785-202

**Rear Tumbler Assemblies, Flat with 12” Drum and Scraper**

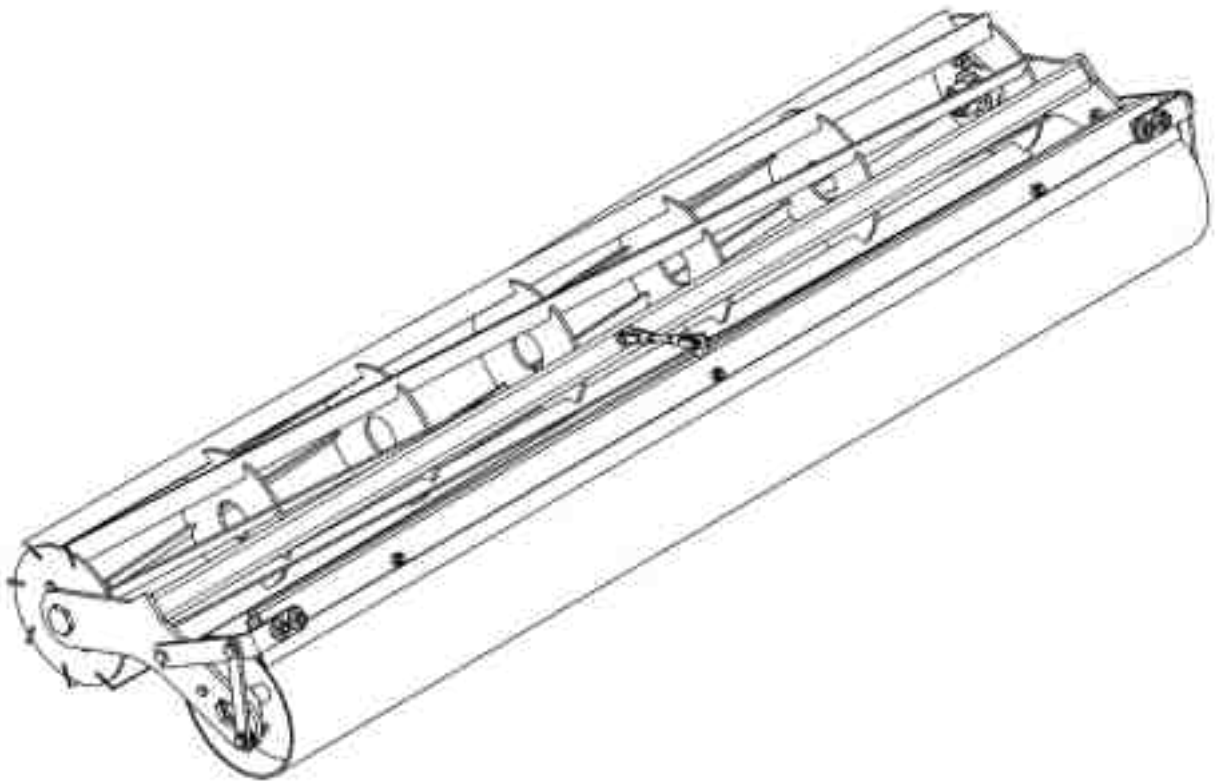


Table 12 – Rear Tumbler Assemblies, Flat with 12” Drum and Scraper (Complete)		
	Center	Wing
HC40SF	H785-200_12	H785-205_12
HC36SF	H785-201_12	H785-201_12
HC32SF		

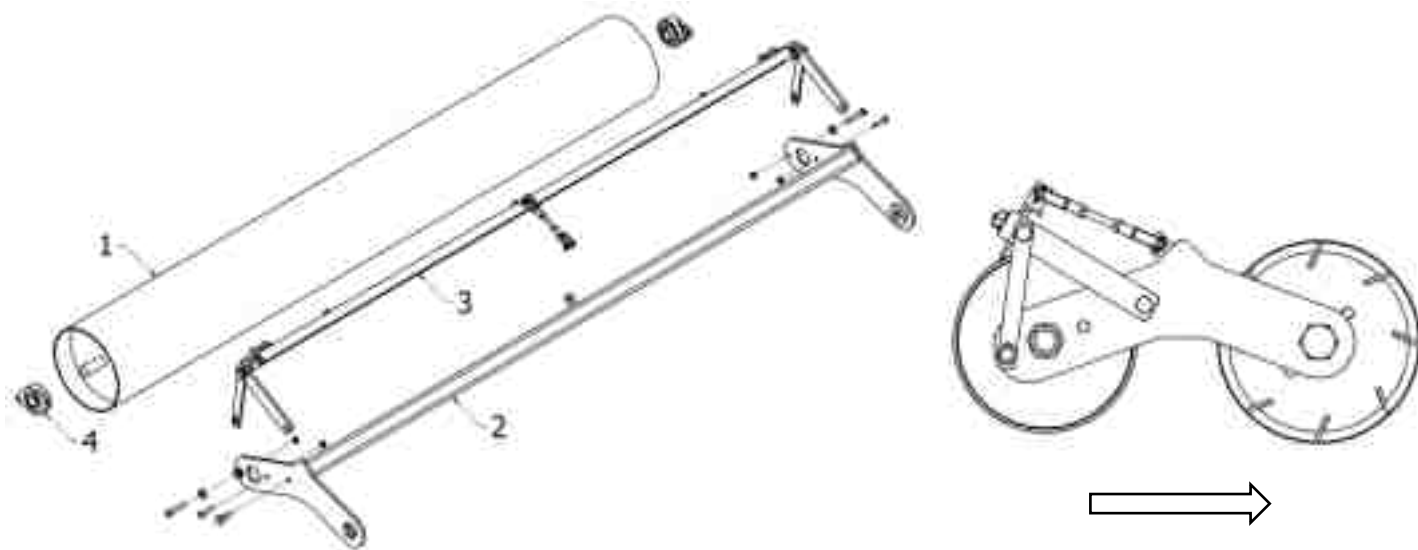


Table 12 – Rear Tumbler Assemblies, Flat with 12" Drum and Scraper (Complete)		
Item	Part Number	Description
1	See Table 13	12" Roller Drum
2	See Table 14	A-Frame, 12" Drum
3	See Table 15	Scraper Assembly, 12"
4	622-084	Bearing, Flange 1.5" 2-Bolt

Table 13 – 12" Roller Drums		
	Center	Wing
HC40SF	H688-106 (106.0")	H688-119 (119.0")
HC36SF	H688-102 (102.5")	H688-102 (102.5")
HC32SF		

Table 14 – A-Frame, 12" Drum		
	Center	Wing
HC40SF	H785-210_12 (107.5")	H785-215_12 (120.5")
HC36SF	H785-211_12 (104.0")	H785-211_12 (104.0")
HC32SF		

Table 15 – Scraper Assembly, 12" – <i>Component breakdown on following page.</i>		
	Center	Wing
HC40SF	H686-758_12	H686-759_12
HC36SF	H686-750_12	H686-750_12
HC32SF		

# Scraper Assembly, 12" Drum

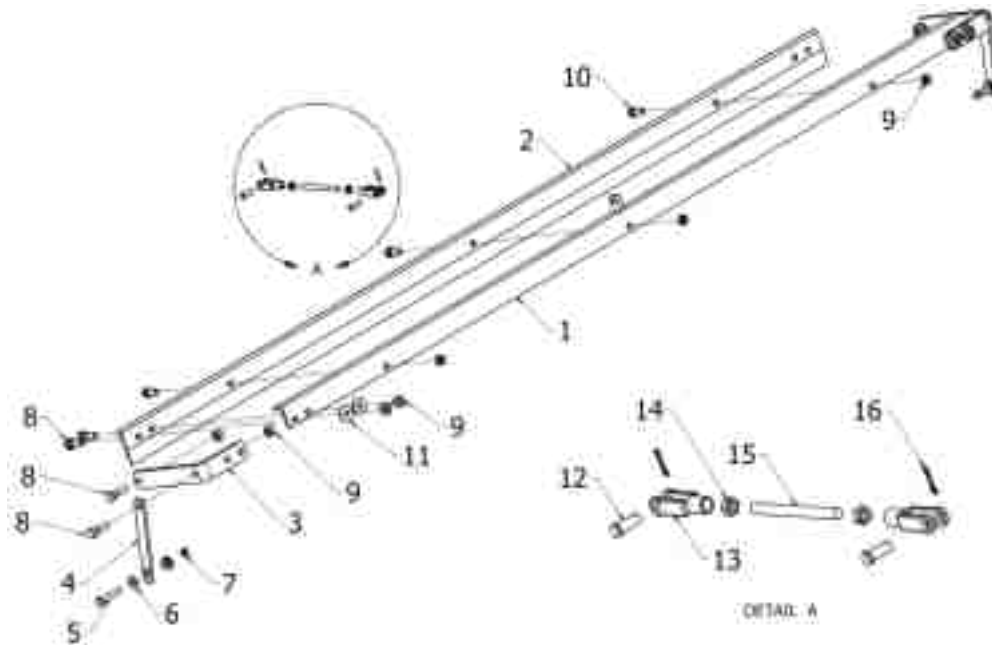


Table 16 - Scraper Assembly Components, 12" Drum		
Item	Part Number	Description
1	See Table 17	Scraper Mount Angle
2	See Table 18	Scraper Blade, 12" Drum
3	H320-025	Scraper Arm, 12" Pipe Roller
4	H320-026	Scraper Linkage, 12" Pipe Roller
5	603-0812	Bolt, Hex 1/2 x 3.0 GR 5
6	616-0800Z	Washer, Flat ZP 1/2"
7	613-0800Z	Nut, Hex Nylock ZP 1/2"
8	602-1008Z	Bolt, Hex Cap Screw 5/8 x 2.0" (GR5) ZP
9	613-1001Z	Nut, Hex Nylock 5/8" ZP
10	602-1006Z	Bolt, Hex Cap Screw 5/8 x 1.5" (GR5) ZP
11	616-1000Z	Washer, Flat ZP 5/8"
12	Q617-281	Pin, Clevis 1/2" Diameter x 1-3/8"
13	Q617-045	Yoke End, 1/2" Straight Leg
14		Nut, Jam 1/2" Fine Thread
15	301-109	Threaded Rod, 1/2" Fine Thread
16	L15662	Cotter Pin, 1/8" x 1.0"

Table 17 – Scraper Mount Angles		
	Center	Wing
HC40SF	H686-708	H686-718
HC36SF	H686-717	H686-717

Table 18 – Scraper Blade, 12" Drum		
	Center	Wing
HC40SF	H901-52240CS-12	H901-52240WS-12
HC36SF	H901-52236S_12	H901-52236S_12

# Linkage Arm Assembly

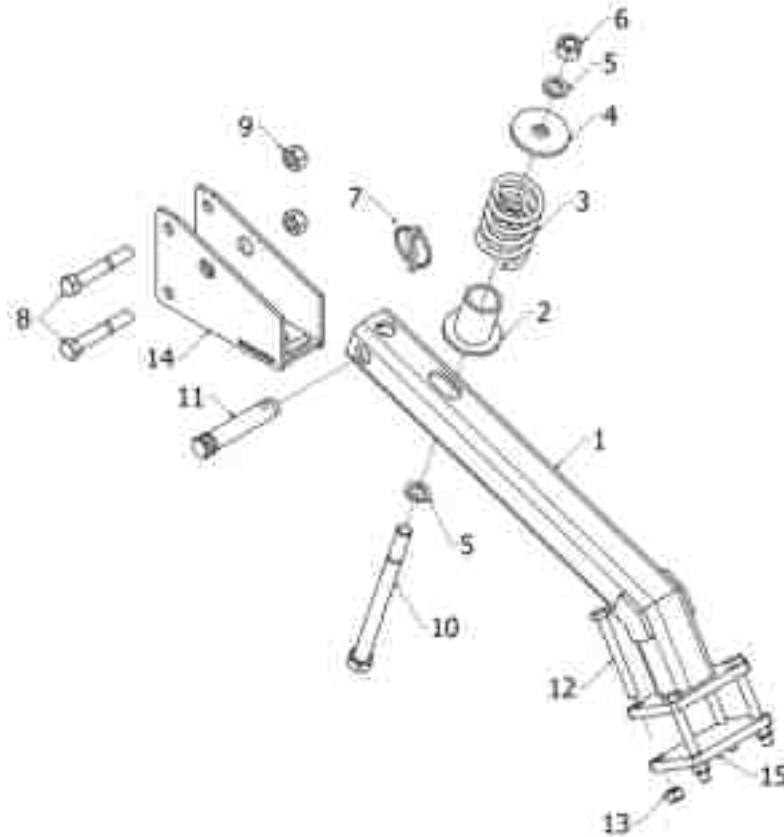
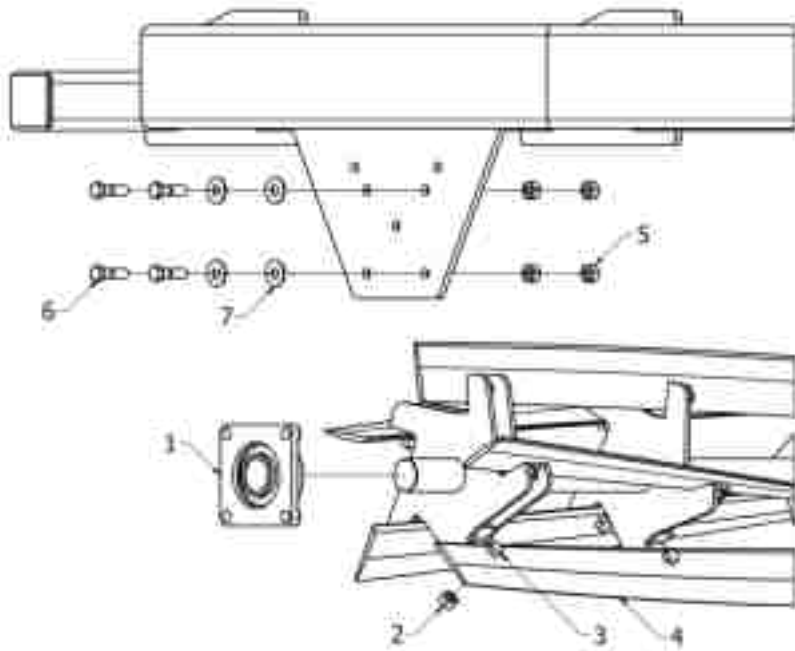


Table 19 - Rear Basket Linkage Arm Assembly P/N: H885-100

Item	Part Number	Description
1	H685-331	40 Deg. Linkage Arm Weldment
2	H685-206	Spring Bushing Assembly, 2.5"
3	H633-400	Top Auger Spring
4	H685-205	HC Tumbler Spring Bushing Assembly
5	616-1200Z	3/4" Zinc Plated Flat Washer
6	611-1201Z	3/4" Zinc Plated Nylock Nut
7	617-105	7/16" Click Pin x 2" Long
8	602-1016Z	5/8" Gr. 5 Zinc Plated Bolt x 4" Long
9	613-1005Z	Nut, Hex Nylock ZP 5/8"
10	602-1240Z	3/4" Gr. 5 Zinc Plated Bolt X 10" Long
11	617-164	Pin, Clevis CAT2 Top Link
12	602-0818Z	1/2" Gr. 5 Zinc Plated Bolt X 4 1/2" Long
13	613-0800Z	1/2" Zinc Plated Nylock Nut
14	H685-302	40 Deg. Linkage Arm Bracket
15	H309-001	Tumbler Mount Plate

# Hipper Chopper® Basket Assemblies



Item	Part Number	Description
1	H622-212	2.25" Flange Bearing
2	613-1001Z	5/8" Zinc Plated Center Lock Nut
3	602-1006Z	5/8" Zinc Plated Bolt X 1 1/2" Long
4	See Table 21	Chopper Blade
5	613-1000Z	5/8" Zinc Plated Nylock Nut
6	602-1010Z	5/8" Zinc Plated Bolt X 2 1/2" Long
7	616-100Z	5/8" Zinc Plated Flat Washer

	Center	Wing
HC40SF	H287-109 (106.0")	H287-121 (118.0")
HC36SF	H287-100 (100.0")	H287-100 (100.0")
HC32SF	H287-085 (82.0")	H287-085 (82.0")

	Center	Wing
HC40SF	H687-106	H687-118
HC36SF	H687-100	H687-100
HC32SF	H687-082	H687-082

# Hipper® Tumbler Basket Assemblies

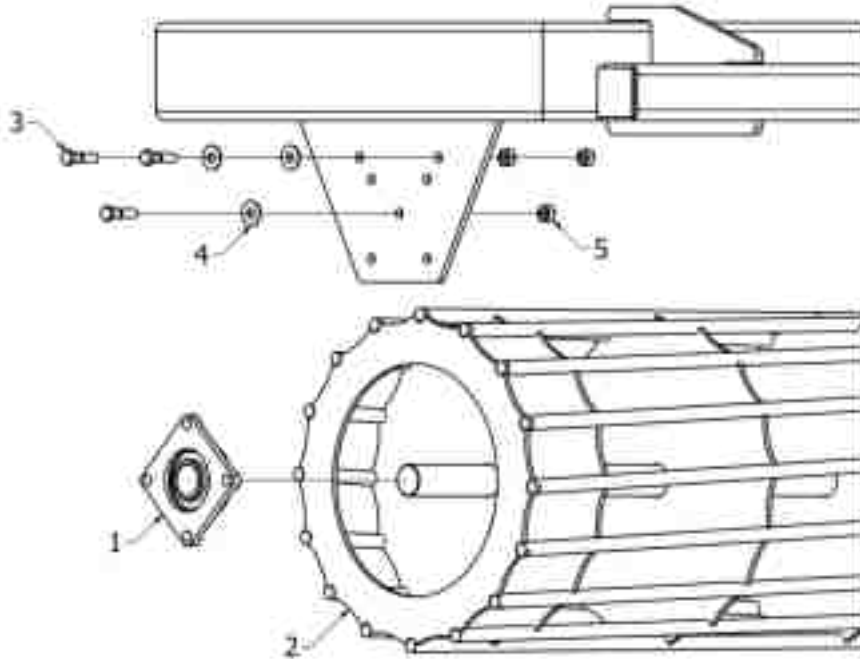


Table 23 - Hipper® Tumbler Basket Assembly		
Item	Part Number	Description
1	H622-212	2.25" Flange Bearing
2	See Table 24	Tumbler Basket Weldment
3	602-1010Z	5/8" Zinc Plated Bolt X 2 1/2" Long
4	616-1000Z	5/8" Zinc Plated Flat Washer
5	613-1000Z	5/8" Zinc Plated Nylock Nut

Table 24 - Tumbler Basket Weldments		
	Center	Wing
HT40SF	H684-104 (104.0")	H684-116 (116.0")
HT36SF	H684-100 (100.0")	H684-100 (100.0")
HT32SF	H684-082 (82.0")	H684-082 (82.0")



# Hipper Roller® Drum Assemblies

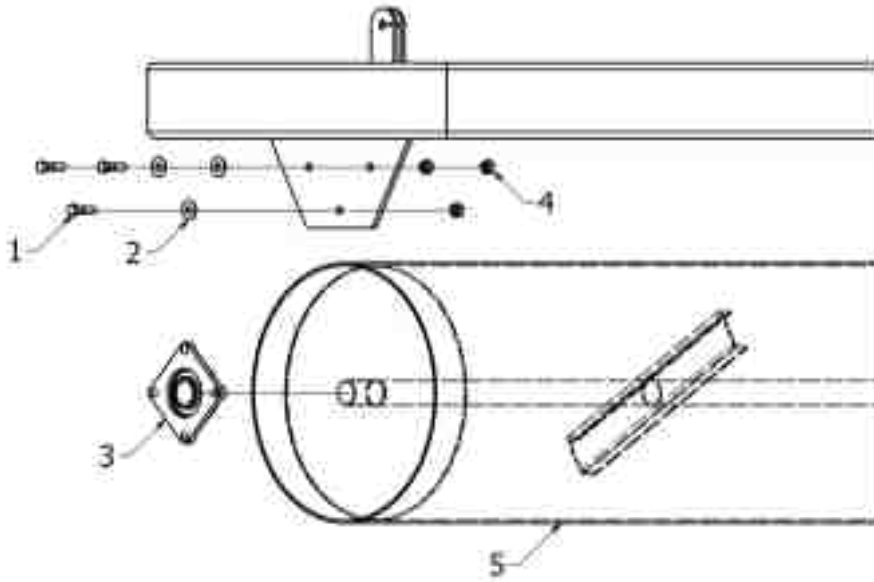


Table 25 - Hipper Roller® Assembly		
Item	Part Number	Description
1	602-1010Z	5/8" Zinc Plated Bolt X 2 1/2" Long
2	616-1000Z	5/8" Zinc Plated Flat Washer
3	H622-212	2.25" Flange Bearing
4	613-1000Z	5/8" Zinc Plated Nylock Nut
5	H686-108	Center Roller Drum Assembly (108")
	See Table 26	24" Drum Weldment

Table 26 – 24" Drum Weldments		
	Center	Wing
HR40SF	H686-108 (108.0")	H686-120 (120.0")
HR36SF	H686-102 (102.0")	H686-102 (102.0")
HR32SF	H686-084 (84.0")	H686-084 (84.0")

# Hipper Roller® Scraper Assemblies

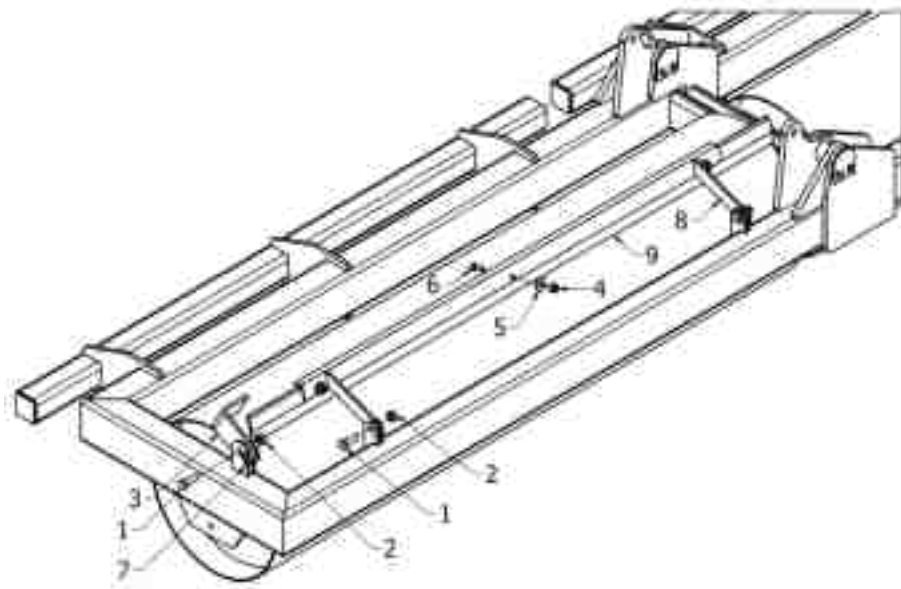


Table 27 - Hipper Roller Scraper Assembly		
Item	Part Number	Description
1	602-1210Z	3/4" Gr. 5 Zinc Plated Bolt X 2 1/2" Long
2	613-1200Z	3/4" Zinc Plated Nylock Nut
3	H686-420	Stop, Drum HR
4	613-1000Z	5/8" Zinc Plated Nylock Nut
5	616-1000Z	5/8" Zinc Plated Flat Washer
6	602-1006Z	5/8" Gr. 5 Hex Bolt X 1 1/2" Long
7		
8	See Table 28	Pivoting Scraper Assembly
9	See Table 29	Scraper Blade

Table 28 – Pivoting Scraper Assemblies		
	Center	Wing
HR40SF	H686-759	H686-759
HR36SF	H686-750	H686-750
HR32SF	H686-751	H686-751

Table 29 – Scraper Blades		
	Center	Wing
HR40SF	H901-52240CS (106.0")	H901-52240WS (118.0")
HR36SF	H901-52236S (100.0")	H901-52236S (100.0")
HR32SF	H901-52232CS (82.0")	H901-52232CS (82.0")

# Furrow Assemblies

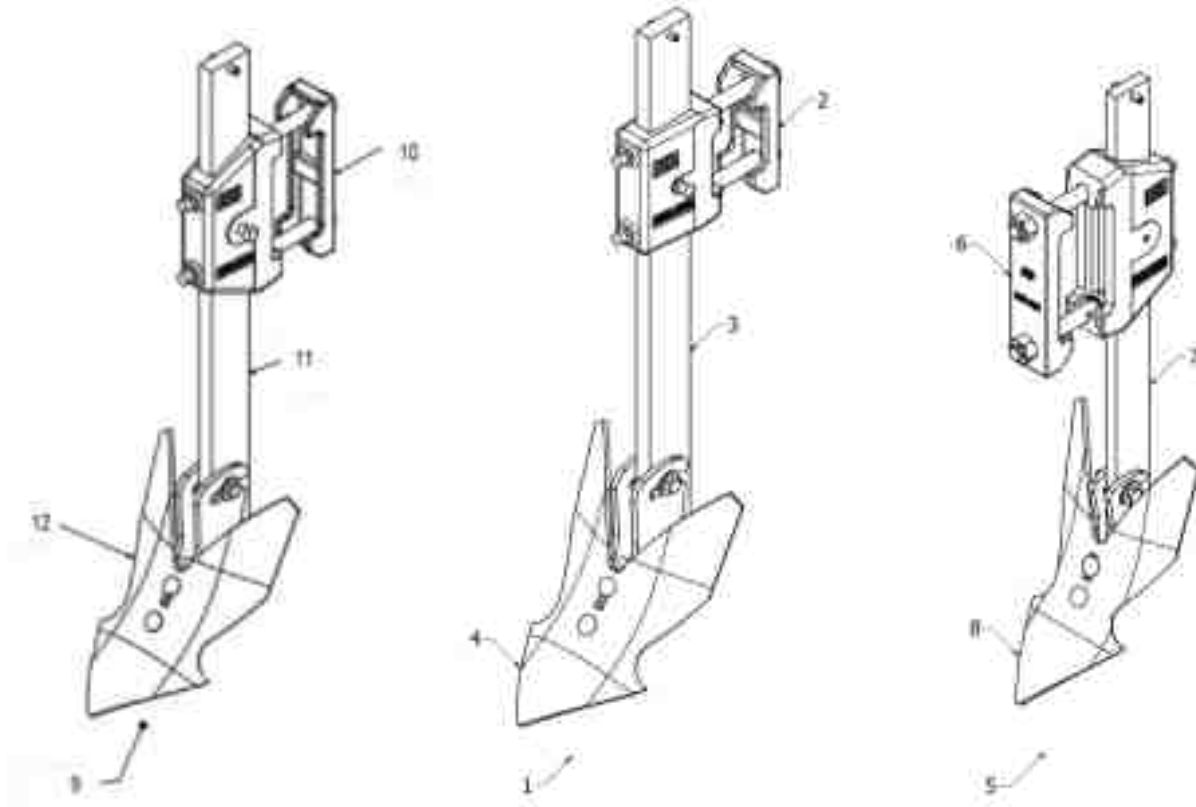


Table 30 - Hipper Implement Furrow Assemblies

Item	Part Number	Description	Quantity per Assembly
1	H870-200	HX Furrow Assem., 11" Plow, 4" Bar, 1" X 3" Shank	Varies
2	H806-403	Cast Clamp for 4X4 Bar & 1X3 Shank	1
3	705-300F	Shank Assembly, 1X3X30 W/ Foot Piece	1
4	H638-211	11" Furrowing Plow	1
5	H870-210	HX Furrow Assem., 8" Plow, 7" Bar, 3/4" X 2 1/2" Shank	Varies
6	H806-742	Cast Clamp for 7X4 bar & 3/4" x 2 1/2" Shank	1
7	H705-200F	Shank Assembly, 3/4X2-1/2 w/ Foot Piece	1
8	638-208	HR Furrow Buster 8" Slotted	1
9	H870-215	HX Furrow Assem., 11" Plow, 7" Bar, 1" X 3" Shank	Varies
10	H806-743	Cast Clamp for 7X4 Bar & 1X3 Shank	8
11	705-300F	Shank Assembly, 1X3X30 W/ Foot Piece	1
12	H638-211	11" Furrowing Plow	1

# Foot Pieces

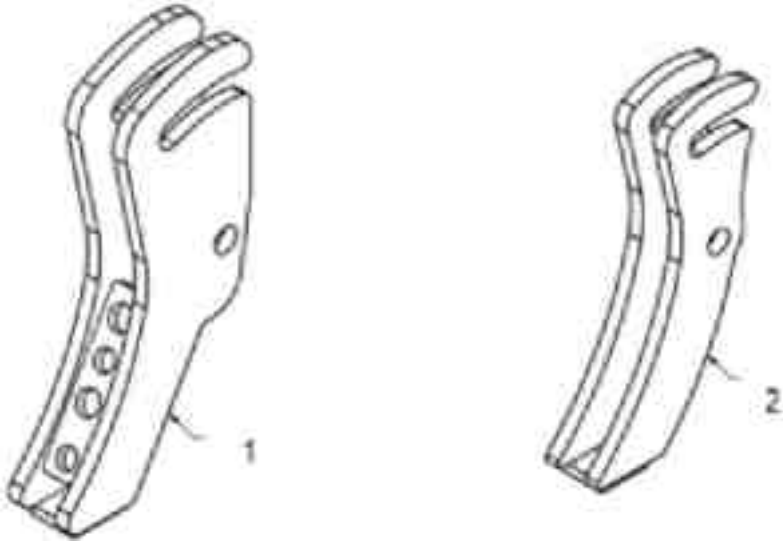


Table 31 - Foot Piece Assemblies		
Item	Part Number	Description
1	636-503	Foot Piece for 1" Shank
2	H450-3376	Foot Piece for 5/8" or 3/4" Shank

## Clamp Assemblies

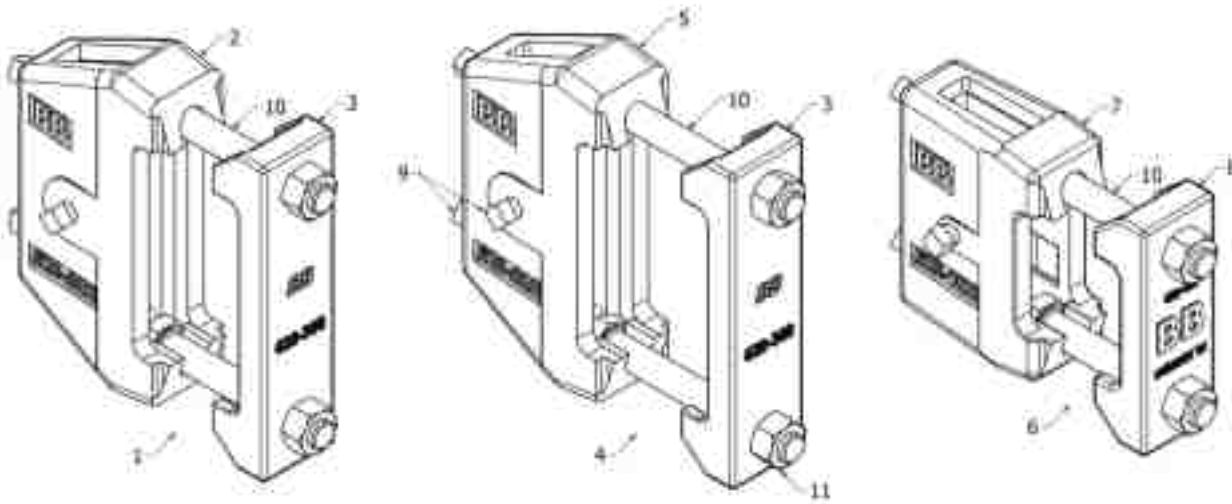


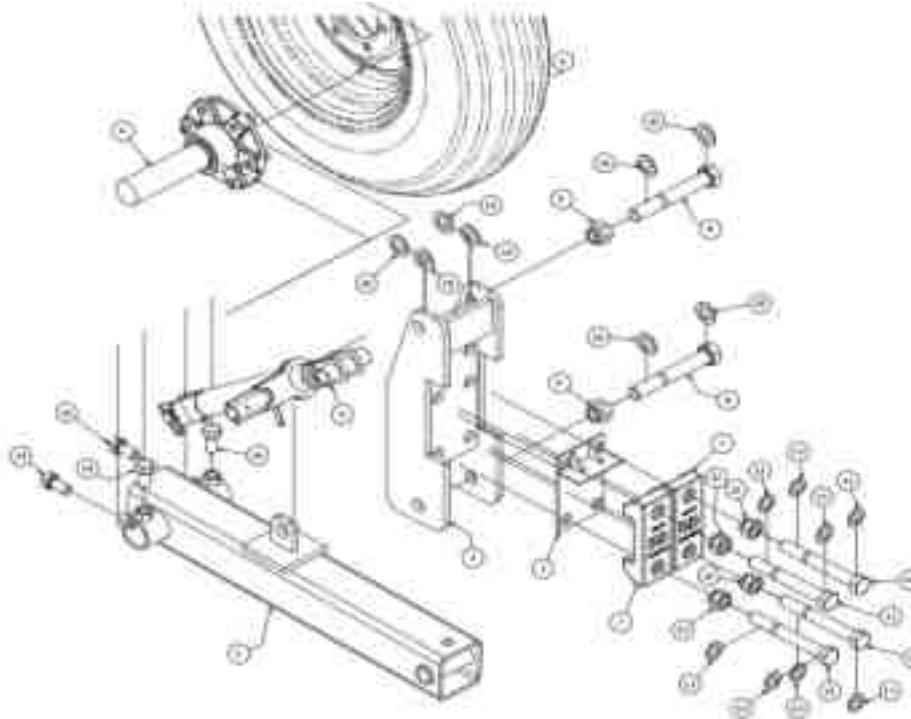
Table 32 - Clamp Assemblies

Item	Part Number	Description
1	H806-743	Cast Clamp for 7X4 Bar & 1X3 Shank
2	628-800	Body, Clamp 7X7
3	628-308	Cap, 7" Bar
4	H806-742	Clamp, 7X4 for 3/4 X 2-1/2 Shank
5	628-810	Body, Clamp 7X7 for 3/4 x 2-1/2 Shank
6	H806-403	Clamp, 4X4 for 1X3 Shank
7	628-700	Body, Clamp 4" 1X3 Shank
8	628-400	Cap, 4" Bar
9	606-1006Z	5/8" Zinc Plated Square Head Set Screw X 1 1/2" Long
10	601-1424Z	7/8" Zinc Plated Bolt x 6" Long
11	611-1401Z	7/8" Zinc Plated Hex Nut

# Universal Gauge Wheel Assembly

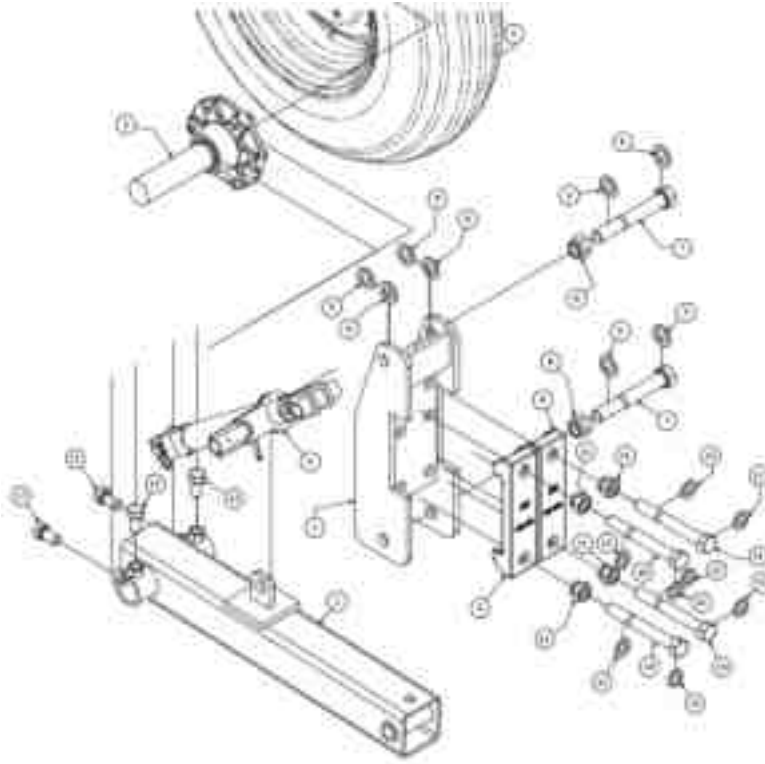
Due to the high demand for components, and the complexity of fitting those components to so many different frame sizes, we at BIGHAM have designed a new style gauge wheel to meet the growing needs of our Customers. The new BIGHAM Ag Universal Gauge Wheel is easily adaptable to fit 7" x 7" tubing, 7" x 4" tubing, 4" x 7" tubing, and 4" x 4" tubing. These views below detail the parts break down of each configuration.

## 4" X 4" TUBING CONFIGURATION



BIGHAM Universal Gauge Wheel Assembly (4" X 4" Tube Configuration) P/N: 855-444			
Item	Part Number	Description	Quantity per Assembly
1	H705-000	Universal Gauge Wheel Mount Bracket	1
2	H705-001	Universal Gauge Wheel Arm Weldment	1
3	H705-002	UGW 4" Tube adapter Weldment	1
4	627-161	Gauge Wheel Hub Assembly W/ 2" Spindle	1
5	627-567	Wheel & Tire Assembly (order separately)	1
6	705-083	Yoke/Tube Adjustment Turn Buckle	1
7	628-400	4" Clamp Cap	2
8	602-1628Z	1" GR. 5 Zinc Plated Bolt X 7" Long	2
9	613-1600Z	1" GR. 5 Zinc Plated Nylock Nut	2
10	616-1600Z	1" Zinc Plated Flat Washer	8
11	602-1428Z	7/8" GR. 5 Zinc Plated Bolt X 7" Long	4
12	611-1401Z	7/8" GR. 5 Zinc Plated Nut	4
13	616-1400Z	7/8" Zinc Plated Flat Washer	4
14	602-1206Z	3/4" GR. 5 Zinc Plated Bolt X 1 1/2"	4

## 7" X 4" TUBING CONFIGURATION



BIGHAM Universal Gauge Wheel Assembly (7" X 4" Tube Configuration) P/N: 855-444			
Item	Part Number	Description	Quantity per Assembly
1	H705-000	Universal Gauge Wheel Mount Bracket	1
2	H705-001	Universal Gauge Wheel Arm Weldment	1
3	627-161	Gauge Wheel Hub Assembly W/ 2" Spindle	1
4	627-567	Wheel & Tire Assembly (order separately)	1
5	705-083	Yoke/Tube Adjustment Turn Buckle	1
6	628-308	7" Clamp Cap	2
7	602-1628Z	1" GR. 5 Zinc Plated Bolt X 7" Long	2
8	613-1600Z	1" GR. 5 Zinc Plated Nylock Nut	2
9	616-1600Z	1" Zinc Plated Flat Washer	8
10	602-1428Z	7/8" GR. 5 Zinc Plated Bolt X 7" Long	4
11	611-1401Z	7/8" GR. 5 Zinc Plated Nut	4
12	616-1400Z	7/8" Zinc Plated Flat Washer	4
13	602-1206Z	3/4" GR. 5 Zinc Plated Bolt X 1 1/2"	4



## HYDRAULIC FLUID AND EQUIPMENT SAFETY



Only adequately trained and qualified persons should work on hydraulics systems. You may be severely injured or killed by being crushed under a falling piece of equipment. Always have transport locks in place and frame sufficiently blocked when working on any implement.

Hydraulic fluid escaping under pressure can have sufficient force to cause injury. Keep all hoses and connections in good serviceable condition. Failure to heed may result in serious personal injury or death. Escaping hydraulic fluid under pressure can have sufficient pressure to penetrate the skin causing serious injury. Avoid the hazard by relieving the pressure before disconnecting lines or performing work on the system.

Make sure hydraulic fluid connections are tight and all hydraulic hoses and lines are in good condition before applying pressure to the system. Use a piece of paper or cardboard, NOT BODY PARTS, to check for suspected leaks. Wear protective gloves and safety glasses or goggles when working with hydraulic systems. DO NOT DELAY! If an accident occurs, see a doctor familiar with this type of injury immediately. Any fluid injected into the skin or eyes must be treated within a few hours or gangrene may result.

Always secure equipment with solid supports before working on or under it. Never work under equipment supported by hydraulics. Hydraulics can drop equipment if controls are actuated or hydraulic lines burst or pressure is lost while disconnecting lines. Either situation can drop machinery instantly even when power to hydraulics is off. Do not attempt to disconnect a hydraulic cylinder or hose while the system is under pressure!

Check hydraulic hoses and fittings frequently. Brush and other debris can damage hoses and fittings. Inspect and maintain equipment daily. Loose, broken, and missing hardware can cause equipment to not perform properly and can result in bodily injury or death.

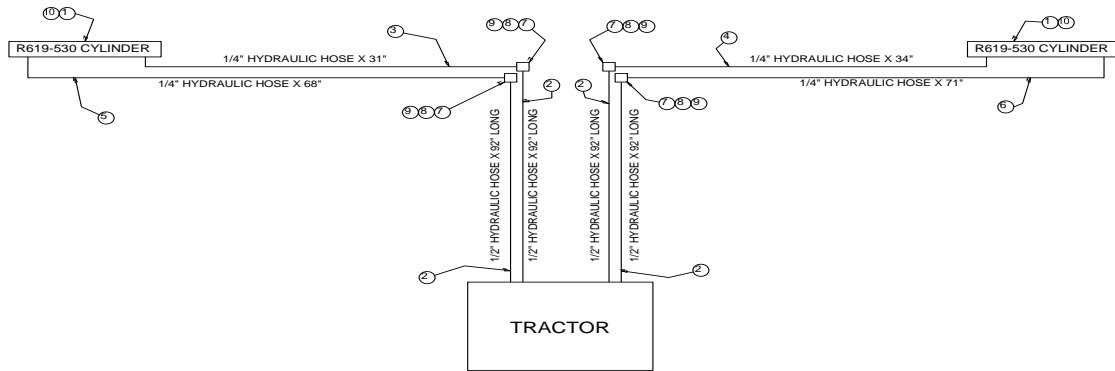
Hydraulic systems and oil can be hot and cause burns. Before working on any system, wait until the oil has cooled.

Keep body and body extremities away from areas such as pivot points and hydraulic cylinders. Always secure equipment pivot points to assure they will not move when working on or near them.



# HYDRAULIC HOSE ASSEMBLIES

Each BIGHAM Ag implement has a specifically designed hydraulic hose system. These systems are designed to allow the specific implements to operate at the optimum level. Below is the breakdown of the hydraulic layout for the Stack Fold Hipper Implement.



Stack Fold Hipper Hydraulic Assembly			
Item	Part Number	Description	Quantity per Unit
1	R619-530	Wing Lift Hydraulic Cylinder W/ Pins	2
2		1/2" Hyd. Hose Assembly X 92" Long	4
	H620-321	1/2" Hyd. Hose (92" Long each)	
	H620-181	1/2" Hose End x 3/4" Orb Male Fitting	
	620-641	Hose Fitting, #8 - 8JIC	
	H621-145	Hyd. Coupling, Quick Disconnect	
3		1/4" Hyd. Hose Assembly X 31" Long	2
	H620-319	1/4" Hyd. Hose (31" Long Each)	
	H620-152	Hose End, 3/8" FJIC X 1/4" Hose (2 per)	
4		1/4" Hyd. Hose Assembly X 34" Long	2
	H620-319	1/4" Hyd. Hose (34" Long Each)	
	H620-152	Hose End, 3/8" FJIC X 1/4" Hose (2 per)	
5		1/4" Hyd. Hose Assembly X 68" Long	2
	H620-319	1/4" Hyd. Hose (68" Long Each)	
	H620-152	Hose End, 3/8" FJIC X 1/4" Hose (2 per)	
6		1/4" Hyd. Hose Assembly X 71" Long	2
	H620-319	1/4" Hyd. Hose (71" Long Each)	
	H620-152	Hose End, 3/8" FJIC X 1/4" Hose (2 per)	
		Other Required Fittings	
5	621-052	Elbow, #8MJ to #8MJ	4
6	621-105	Nut, 3-Piece 1/2"	4
7	621-104	Reducer, 8FJ - 6MJ	4
8	624-054	Cylinder Fitting, #8MB - #6MJIC	4

# MAINTENANCE CHART

ITEM	INTERVAL
Check tire pressure.	Before running.
Grease wheel bearings.	Two times per year.
Grease rolling element bearings.	After running. Every 2-3 days of use.
Grease frame hinges	Daily.
Review safety instructions.	Annually.
Clean implement.	As needed.
Clean and paint.	As needed.



## ASSISTANCE

If you have questions not answered in this manual, or require additional copies, or the manual is damaged, please contact your dealer or:

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1220 E Durkee Street, Carlisle, AR 72024  
Phone: 870-552-7517  
Fax: 870-552-3303