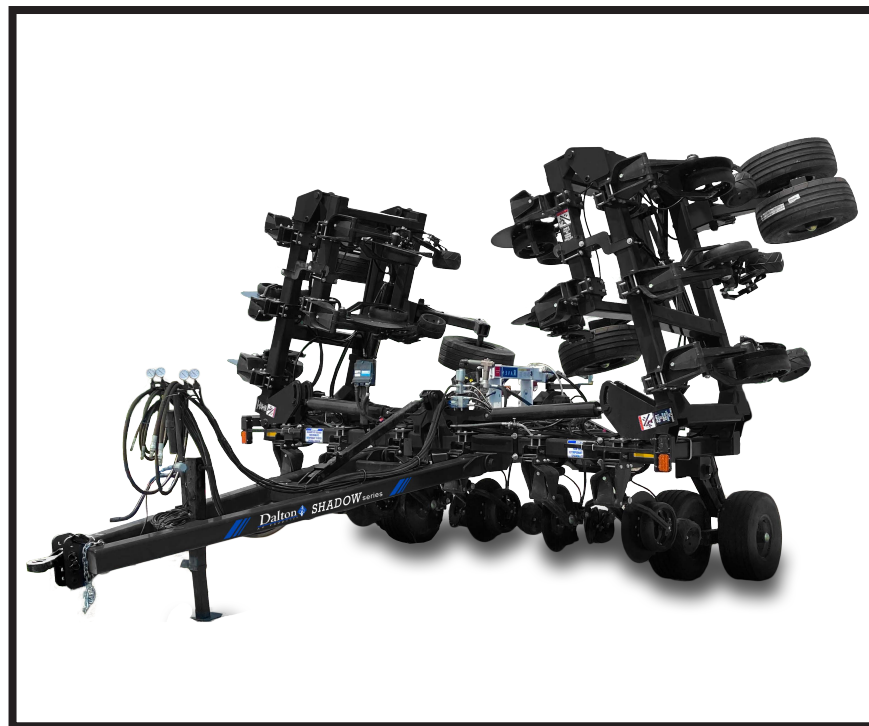




# OPERATING AND PARTS MANUAL

## *DWHS SERIES TOOLBAR*

2026



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## TO YOU, THE OWNER

Your Dalton Ag Equipment is the most modern, up-to-date, versatile, machine available for fertilizer application. The machine is the result of many years of experience, research, development and testing of equipment for fertilizer application. It is soundly engineered and carefully built to rigid specifications. It is of rugged and simple construction, with a minimum of moving parts.

However, to obtain maximum performance from your Dalton Ag Equipment, it is necessary to follow the instructions and safety suggestions in this manual. Each section has been carefully prepared for the purpose of providing needed and valuable information to the owner and operator. Each operator of this unit should be familiar with the contents of this manual. Keep it in a safe and convenient location. THERE ARE MANY SAFETY SUGGESTIONS (CAUTION AREAS) PRINTED THROUGHOUT THIS MANUAL. CAREFULLY READ THEM ALL BEFORE OPERATING THIS UNIT.

## DESIGN IMPROVEMENTS

Dalton Ag Products follows a policy of continuous products improvement. We therefore reserve the right to make design improvements, and changes in specifications and prices, without incurring obligations to make revisions or additions to equipment previously sold.

**REGISTER  
WARRANTY  
ONE OF  
FOUR WAYS**

- Register on-line at:  
[www.daltonag.com](http://www.daltonag.com)
- Fax your completed warranty registration form to:  
641-569-7033
- Email your completed warranty registration form to:  
[office@daltonag.com](mailto:office@daltonag.com)
- Mail your completed warranty registration form to:  
Dalton Ag Products  
P.O. Box 70  
Lenox, IA 50851



**LIMITED WARRANTY STATEMENT**

DALTON AG PRODUCTS warrants to the original purchaser only that all products manufactured under the Dalton Ag and Mobility Brands will be free from defects in material and workmanship under normal use and service.

DALTON AG’s obligation under this warranty is limited to repairing or replacing, as it may elect, free of charge and without charge for installation, at the place of business of a dealer or distributor authorized to handle the equipment covered by this warranty or at a DALTON AG facility, any parts that prove, in DALTON AG's judgment, to be defective in material or workmanship within two (2) years after delivery to the original purchaser. DALTON AG shall not be liable for personal injuries or any special or consequential damages of any kind, either direct or indirect. This warranty is subject to acts of God, fire and existing conditions of supply and demand, production, ability or inability to deliver, or for any other valid reason beyond the reasonable control of DALTON AG. No distributor, dealer, agent or DALTON AG employee (other than DALTON's President in writing) is authorized to extend or make any other or further express or implied warranty or incur any additional obligation on DALTON AG’s behalf in connection with the sale of this product.

**Customer Responsibility**

**Product Registration** - It is a condition of this warranty that the original purchaser fill out the warranty card furnished by DALTON AG and return it to DALTON AG to be recorded in DALTON AG’s owner file. Registration may also be done on line at [www.DaltonAg.com/warrantyregistration](http://www.DaltonAg.com/warrantyregistration). If the original purchaser's card or electronic registration is not on file at DALTON AG’s office, the warranty period will extend only from date equipment was picked up or shipped from the DALTON AG plant.

**Maintenance** - It is the customer’s responsibility to maintain their equipment in accordance with the instructions provided in the Operator’s Manual. DALTON AG recommends that you keep records and receipts as the customer may be required to verify the maintenance instructions have been followed.

**Operation** – It is the customer’s responsibility to operate the equipment only for the purpose for which it was designed and in accordance with all safety and operational recommendations contained in the Operator's Manual. If a defect in materials or workmanship occurs, it is the customer’s responsibility to cease operating the equipment until authorized repairs are made.

**Damage incurred from continued operation after a defect is discovered may not be covered by this warranty.**

**What this Warranty Covers**

This warranty covers failures caused by defects in materials or workmanship only.

**This Warranty does not cover failures caused by:**

- Improper operation
- Natural calamities
- Unauthorized modifications
- Unauthorized repairs
- Use of Non DALTON AG parts
- Neglected maintenance
- Usage contrary to the intended purpose of the product

**This Warranty does not cover replacement of Wear or Maintenance Items including, but not limited to:**

- Lubricants
- Filters
- Hoses
- Tires
- Disks
- Chains
- Idlers
- Blades
- Belts
- Bearings

**This Warranty does not cover:**

- Pickup and delivery of the equipment
- Service Calls or Travel Time to and from sites
- Rental of replacement equipment during repair period
- Products that have been declared a total loss and subsequently salvaged
- Overtime labor charges

**Parts Warranty**

DALTON AG warrants its replacement parts against defects in materials or workmanship for a period of 90 days or the remainder of the product warranty, whichever is longer under the terms set out above. Remedy for defective replacement parts for units that are beyond the original product warranty, will be limited to replacement of the failed part.

**DaltonAg.com**

**602 E. Van Buren Lenox, Iowa 50851**

**PHONE: 800.342.7498**

**FAX: 641.569.7033**

## NEW MACHINE CHECKOUT

1. All hardware properly tightened.
2. Lubrication of grease fittings.
3. Wheel bolts tightened to proper specs.
4. Check hydraulic hoses and fittings.

## MAINTENANCE

1. Visually inspect machine daily.
2. Repair or replace any worn or damaged parts.

## LUBRICATION SCHEDULE

Careful observance of the following lubrication schedule is the best preventative maintenance program for your Dalton Ag Equipment. We recommend that you establish a firm program to insure lubrication in strict compliance with the following schedule. Use only good grade pressure gun type grease unless otherwise specified.

### Daily Lubrication

Hinge points

### Weekly Lubrication

Wheel bearings  
Coulters

### Annual Lubrication

Check all bearings - repack or replace as needed

## IMPLEMENT SAFETY

In addition to design and configuration of equipment, safety and accident prevention are dependent upon the awareness, concern, and proper training of personnel involved in the operation, transport, maintenance, and storage of equipment. Failing to follow these safety messages can result in machine damage, personal injury, and/or death.

- Before operating your DALTON AG equipment, thoroughly read and understand your operator's manual. If you do not understand any portion of the operator's manual, contact your local Dalton Ag dealer immediately for clarification.
- Furnish this manual to a new operator.
- Tow with tractor only. Never transport equipment in excess of 20 MPH. Maintain a safe speed.
- Use a Slow-Moving-Vehicle (SMV) emblem when transporting.
- Be sure safety decals are readable. All safety related decals must be replaced if the equipment is painted or the decals are otherwise rendered unreadable.
- Install transport link before transporting.
- Always check for overhead obstacles in transporting equipment and before folding or unfolding the wings of the unit.
- Never permit riders on the equipment or tractor.
- Proceed slowly on rough or slippery roadways, on side hills, and around curves to avoid tipping.
- Reduce speed when approaching ditches and corners. Do not make sharp turns with brakes.
- Machinery should be operated only by persons familiar to the tractor, equipment, and the safety related items.
- Do not stand on, or straddle tongue when unhitching.
- Do not modify or permit anyone to modify this equipment and any of its components without first consulting your Dalton Ag dealer.
- Do not lubricate, adjust, or repair when equipment is in motion.
- Use only approved replacement parts.
- To prevent serious injury from high pressure fluid, NEVER attempt to inspect, service, or disassemble any part of the hydraulic system until all pressure is relieved by lowering the toolbar to the ground (or secure with cylinder transport stops provided).
- High-pressure fluid is nearly invisible but has enough force to penetrate the skin. Never use the hands to search out a suspected leak. If injured by escaping fluid, obtain medical attention at once to minimize chance of infection. Wear safety glasses or goggles to avoid eye injury when working on the hydraulic system.
- Always check torque on wheel bolts before transporting.

## **PRE-SEASON CHECK**

1. Carefully review the safety suggestions in this manual.
2. Check all bolts for proper tightness. When the implement is new, check after one hour and every few hours of operation.
3. Replace ground tools that are severely worn, broken or damaged.
4. Check tires for proper inflation. All tires should be inflated equally to avoid side draft.
5. Check the wheel lug bolts daily, keep wheel bolts tight.
6. Grease all fittings.
7. Inspect, repack, or replace (if necessary) wheel bearings and seals.
8. Check hoses, hose routing and hydraulic cylinders. Any indication of leakage or fraying of hoses should be corrected.





## **OFF-SEASON STORAGE**

Following these suggestions will extend service life and satisfaction:

1. A little time and effort spent cleaning your machine before storing will repay in longer service, easier operation and higher resale value.
2. Inspect for worn or damaged parts. Replace, if required, and avoid delays the next season.
3. Repaint all areas where the original paint is worn off.
4. Lubricate your implement.
5. Grease all exposed metal surfaces of ground tools.
6. Store the unit inside a shed to protect from weather and on a level area with wings down. The ground working parts should rest on boards.
7. Disconnect the rod end of the lift cylinders and retract the rod into the cylinder to prevent the cylinder rod from rusting.
8. Cap or plug all hydraulic oil lines, if the cylinders are removed. This is to prevent any contaminants from entering the hydraulic system.
9. Raise tires off ground or remove and store in cool dry location out of sunlight.

**IMPORTANT :** Over tightening hardware can be as damaging as under tightening. Tightening beyond recommended torque will reduce the fastener’s shock load capacity.

## BOLT TORQUE CHART

SIZE	 SAE GRADE 2		 SAE GRADE 5		 SAE GRADE 8		 L9
	ASSEMBLY TORQUE		ASSEMBLY TORQUE		ASSEMBLY TORQUE		ASSEMBLY TORQUE
	DRY	LUBRICATED	DRY	LUBRICATED	DRY	LUBRICATED	LUBRICATED
1/4-20	66*	49*	8	75*	12	9	11
1/4-28	76*	56*	10	86*	14	10	13
5/16-18	11	8	17	13	20	18	21
5/16-24	12	9	19	14	25	20	23
3/8-16	20	15	30	23	45	30	33
3/8-24	23	17	35	25	50	35	38
7/16-14	30	24	50	35	70	55	60
7/16-20	35	25	55	40	80	60	65
1/2-13	50	35	75	55	110	80	95
1/2-20	55	40	90	65	120	90	105
9/16-12	65	50	110	80	150	110	140
9/16-18	75	55	120	90	170	130	150
5/8-11	90	70	150	110	220	170	185
5/8-18	100	80	180	130	240	180	205
3/4-10	160	120	260	200	380	280	290
3/4-16	180	140	300	220	420	320	355
7/8-9	190	140	400	300	600	460	505
7/8-14	210	155	440	320	660	500	585
1-8	220	160	580	440	900	680	775
1-14	240	170	640	480	1000	740	900
1 1/8-7	300	220	800	600	1280	960	1150
1 1/8-12	340	260	880	660	1440	1080	1325
1 1/4-7	420	320	1120	840	1820	1360	1600
1 1/4-12	460	360	1240	920	2000	1500	1750
1 3/8-6	560	420	1460	1100	2380	1780	---
1 3/8-12	640	460	1680	1260	2720	2040	---
1 1/2-6	740	560	1940	1460	3160	2360	3250
1 1/2-12	840	620	2200	1640	3560	2660	3650

**ITEMS WITH \* = INCH POUNDS  
ALL OTHERS = FOOT POUNDS**

**WARNING:** Never work around any raised implement while in the raised position without using safety lockups.

## ANHYDROUS AMMONIA SAFETY

(Source: Pennsylvania State University. Agricultural Safety and Health)

**Anhydrous ammonia (NH<sub>3</sub>)** is a nitrogen crop fertilizer that can cause severe chemical burns; frostbite to the eyes, skin, and respiratory tract; and death. It is important for all individuals working with this type of fertilizer to understand the potential risks, necessary safety precautions, and proper response in the event of accidental contact.

Anhydrous ammonia is a hygroscopic compound, meaning that it takes up water from the nearest source, which can include the human body—especially the eyes, lungs, and skin because of their high moisture content. Anhydrous ammonia is caustic, corrosive, and damaging to tissue high in moisture content when it contacts the human body. Anhydrous ammonia inhalation incidents are typically severe because the victim's throat can swell shut, causing suffocation. When vapors or liquid come in contact with a person's eyes, blindness may occur.

Typically, anhydrous ammonia is stored under pressure, but it vaporizes to a colorless gas. It has a unique odor that can be detected at a low concentration of 5 ppm. The concentration in fertilizer is approximately 1,000,000 ppm, but even brief exposure to a concentration of 2,500 to 6,500 ppm can result in death.

Anhydrous ammonia is transported under pressure as a liquid, so all equipment used for transport must be designed for use under high pressure to avoid ruptures or breaks. Incidents can occur when anhydrous ammonia escapes from transfer hoses or valves, equipment malfunctions and sprays anhydrous ammonia in multiple directions, hoses pull apart during transportation or application, and so on.

### **PPE and Supplies**

It is essential that all workers who use anhydrous ammonia wear the appropriate personal protective equipment (PPE), be equipped with necessary response supplies, and know how to respond in an emergency. PPE should include ventless goggles or a full-face shield, rubber gloves with long cuffs that can be rolled to catch drips, and a long-sleeved shirt. Non-rubber gloves made of ammonia-proof material are acceptable. Because contact lenses can trap the gas and become fused to the eye, it is recommended that individuals not wear contact lenses while working with anhydrous ammonia.

In the event of an exposure emergency, the most important resource is an ample supply of clean water to begin flushing the eyes and skin. If you use a vehicle to transport anhydrous ammonia, you must carry a 5 gal. container of clean water. Each person working with anhydrous ammonia should carry a 6 to 8 fl. oz. squeeze bottle of water at all times for rapid response to an emergency.

## Basic First Aid for Anhydrous Ammonia Exposure

The first-response treatment for anhydrous ammonia exposure is to flush the exposed area (skin, nose, throat, eyes, and so on) with clean water for a minimum of 15 minutes.

- Flush the exposed area immediately to decrease injury caused by the anhydrous ammonia coming in contact with skin or clothes. Although clean water is the ideal resource for flushing exposed areas of the body, if you do not have water available, other nontoxic liquids, such as cold coffee or orange juice, can be used.
- Remove contaminated clothing unless the clothing is frozen to the victim's skin.
- Seek medical attention immediately and inform medical staff of the exposure to anhydrous ammonia so that they will not treat the wounds with oils or ointments that can intensify the damage.

If you find a person who is in a continuous stream of anhydrous ammonia, contact your local emergency service responders or 911. Inform the emergency medical responders about the type of incident so they can bring the proper equipment to the scene. A self-contained breathing apparatus (SCBA) and protective clothing are necessary to remove a person from a continuous stream. Rescue workers will contact a hazardous materials (HAZMAT) disposal team if HAZMAT services are needed at the scene.

Note that these guidelines are not comprehensive, and all individuals working with anhydrous ammonia should receive training in the proper response to exposure emergencies.

## Storage and Transportation

Anhydrous ammonia is a strong alkali that, when dissolved in water, readily reacts with copper, zinc, brass, and other alloys. Therefore, the only types of containers, fittings, and piping that should come in contact with anhydrous ammonia should be non-galvanized steel or iron. Do not store other materials, such as propane or liquefied petroleum gas, in a tank that has been used to store anhydrous ammonia.

When filling your anhydrous ammonia tank, do not fill it more than 85% full, and always disconnect the fill hose before moving the tank. Remember to bleed pressurized anhydrous ammonia from the hose before connecting or disconnecting the hose.

When transporting anhydrous ammonia, be sure to adhere to the following precautions and safety rules:

- **Running Gear:** Regularly inspect the wagon's frame tongue, reach poles, anchor devices, wheel bearings, knuckles, ball joints, and pins for structural damage and wear and make necessary repairs and adjustments.
- **Tires:** Check tires for proper inflation, bald spots, and signs of wear and ensure that lug nuts are tight.
- **Hoses and Valves:** Inspect and replace hoses and valves as needed.
  - o The hydrostatic relief valve should be replaced every five years.
  - o The transfer hose should be replaced five years from the date of manufacture.

- **Lubrication:** Annually lubricate the wagon's knuckle, wheels, tongues, and so on.
- **Towing Vehicle:** To increase the driver's ability to control the towing vehicle, ensure that the towing vehicle weighs at least as much as the tank.
  - o A tractor can tow two tanks, but a truck can tow only one tank at a time.
- **Speed Limit:** When towing an anhydrous ammonia tank, observe a speed limit of 25 mph.
- **Hitch Pin:** Use a hitch pin with a safety chain when towing a tank wagon.
- **Warning Lights:** Ensure that the tank is equipped with a seven-terminal breakaway connector plug to properly operate turn signals, flashing warning lights, and a red brake light.
- **Safety Signage:** If operating on a highway, outfit the tank with all required safety markings, including a slow-moving vehicle (SMV) sign.
  - o The words *Anhydrous Ammonia* must appear on both sides of the tank and on the rear of the tank in letters 4 in. high. The words should be in contrast to the tank so that they can be read easily.
  - o *Inhalation Hazard* must appear on both sides of the tank in letters 3 in. high.
  - o A Department of Transportation (DOT) placard number 1005 for nonflammable gas should be placed on the front, back, and sides of the tank.

### **Additional Safety Recommendations**

- Paint the tank with reflective white paint to decrease excessive pressure buildup that can occur when the tank is heated from direct sunlight.
- Do not use dented or damaged tanks until they have been checked by an authorized inspector and necessary repairs are completed.
- Allow only certified welders to perform welding on the tank.
- Regulations and codes regarding towing of anhydrous ammonia and signage may vary, so be familiar with and obey the regulations in your state.

Summarized by:

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**Sources**

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Training module: Safe handling of anhydrous ammonia (NH<sub>3</sub>). (2002) Ohio State University Extension. Retrieved from <http://nasdonline.org/1731/d001719/safe-handling-of-anhydrous-ammonia-nh....>

Training module: Towing anhydrous ammonia tanks. (2002) Ohio State University Extension Agricultural Tailgate Safety Training. Retrieved from <http://nasdonline.org/1794/d001750/towing-anhydrous-ammonia-tanks.html>

## FIRST AID

Decontaminate the victim as quickly as possible. Start with the eyes. The whole body, or exposed area, must be flushed with generous amounts of water; this includes the hair, ears, under the chin, and armpits. Water sources such as showers, hoses, eye wash stations, or stock tanks are acceptable [29 CFR 1910.151(c)]

Ensure trained personnel and adequate first aid supplies are readily available [29 CFR 1910.151(b)]



**Eyewash Station**

### Contact with the Eyes

Even if only a small amount of ammonia enters the eyes, irrigate the eyes with an abundance of water for a minimum of 15 minutes. Continually and thoroughly flush the entire eye surface and the inner lining of the eyelids. Eyes affected by ammonia close involuntarily, so the eyelids must be held open so that water can flush the entire eye surface, as well as the inner lining of the eyelid.

If there is no physician available, continue irrigation for an additional 15 minutes.

Do not wear contact lenses when handling anhydrous ammonia. If ammonia gets in the eyes, the ammonia will get trapped under the lenses causing even more damage. They may also prevent immediate flushing of the eye surface.

Serious eye injury should be treated by an ophthalmologist, but in an emergency, wash with large quantities of water for 15 minutes or more as quickly as possible. In fact, the only real hope for preventing permanent eye injury lies in quick and generous washing.

One suggestion for those likely to be exposed is to carry a small, eight-ounce squeezable squirt bottle filled with water, which can be used to get excess ammonia out of the eyes until a larger water supply can be reached. This small amount of water is not sufficient to remove all the ammonia. It is essential that the eyes be irrigated for a minimum of 15 minutes as soon as possible.



**Squirt Bottle**

Another emergency method is to duck the head in water and rapidly blink and move or rotate the eyes about.

### Contact with the Skin

It is essential that any ammonia spilled on the worker be removed immediately and that the worker be moved to an uncontaminated area quickly.

Clothes that have been saturated by liquid ammonia may freeze to the skin. In any case, the victim, still clothed, should get immediately under a shower, if available, or jump into a stock tank, pond, or into any other source of water. Time is important! Remove clothes only after they are thawed and they can be freely removed from frozen areas. If the clothing is removed incorrectly, whole sections of skin can be torn off.

No salves, creams, ointments, or jellies should be applied to the skin during a 24-hour period following the injury since this will prevent natural elimination of the ammonia from the skin. After the 24 hour period, the medical treatment is the same for thermal burns. A physician should view any second- or third-degree freeze burns of the skin.

**Taken Internally:** This is what you should do if ammonia is ingested:

- Call a physician.
- If conscious, have the victim drink large amounts of water.
- Do not induce vomiting if the victim is in shock, in extreme pain, or is unconscious.
- If vomiting begins, place the victims face down with head lower than hips. This prevents vomit from entering the lungs and prevents severe injury.

## Inhalation

In all inhalation exposures, severe or minimal:

- Take the exposed workers at once to a clean, uncontaminated area.
- Watch workers exposed to low concentrations for a short period of time. They will usually require no treatment and can be released.
- For severe exposure to higher concentrations:

Call a physician.

Administer oxygen by an individual who is trained and authorized to do so by a physician. This will help relieve pain and symptoms of lack of oxygen.

Begin artificial respiration immediately if the patient is not breathing.

Keep victim warm (but not hot) and rested until transported to the hospital.

**Summary:** In any accident involving contact with ammonia with the eyes or skin:

- Immediately flush the affected area with large quantities of clean water.
- Place the injured person into a container of clean water or under an emergency shower.
- Provide the injured worker with first aid treatment and call a physician at once in the case of extreme exposure. Give the physician a complete account of the incident.
- Seconds count, wash the ammonia away with water immediately.

*Information from U.S. Department of Labor - OSHA*

*[https://www.osha.gov/SLTC/etools/ammonia\\_refrigeration/emergency/index.html#firstaid](https://www.osha.gov/SLTC/etools/ammonia_refrigeration/emergency/index.html#firstaid)*

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## OPERATING AND INSTALLATION INSTRUCTIONS FOR THE A-HFC-114

### HIGH FLOW TOOL BAR COUPLING



**CAUTION**  **DANGER**

**PLEASE READ THIS ENTIRE MANUAL AND FOLLOW THE INSTRUCTIONS CAREFULLY. FAILURE TO READ AND FOLLOW ALL OF THE INSTRUCTIONS AND WARNINGS IN THIS MANUAL MIGHT RESULT IN A DANGEROUS RELEASE OF ANHYDROUS AMMONIA AND CAUSE SERIOUS BODILY INJURY.**



**CAUTION** **DANGER**

**ALLWAYS FOLLOW MANUFACTURES INSTRUCTIONS WHEN INSTALLING, DISCONNECTING OR RECONNECTING THE QUICK COUPLING. FAILURE TO DO SO MAY CAUSE BODILY INJURY.**

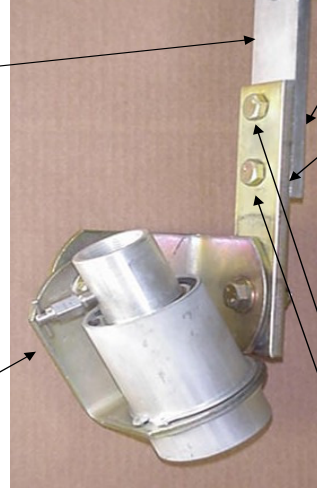
**ALWAYS FOLLOW STEPS 1-3 BELOW BEFORE PERFORMING MAINTENANCE, INSTALLATION, RECONNECTING OR DISCONNECTING THE QUICK COUPLING**

1. ALLWAYS WEAR GOGGLES AND GLOVES AND HAVE EMERGENCY WATER AVAILABLE.
2. CLOSE ALL VALVES.
3. OPEN ALL BLEED VALVES AND DRAIN ALL OF THE AMMONIA FROM THE HOSES ATTACHED TO THE TANK AND THE APPLICATOR. ALWAYS BE CAREFUL WHEN OPENING A BLEED VALVE TO MAKE SURE THE OUTLET IS POINTING IN A SAFE DIRECTION AND AWAY FROM YOU OR ANYONE ELSE. DO NOT PROCEED UNTIL YOU HAVE MADE SURE ALL OF THE AMMONIA HAS BEEN DRAINED FROM ALL OF THE HOSES.

# NEW INSTALLATION INSTRUCTIONS

1. ALWAYS WEAR GOGGLES AND GLOVES AND HAVE EMERGENCY WATER AVAILABLE.
2. CLOSE ALL VALVES.
3. OPEN ALL BLEED VALVES AND DRAIN ALL OF THE AMMONIA FROM THE HOSES ATTACHED TO THE TANK AND THE APPLICATOR. **ALWAYS BE CAREFUL WHEN OPENING A BLEED VALVE TO MAKE SURE THE OUTLET IS POINTING IN A SAFE DIRECTION AND AWAY FROM YOU OR ANYONE ELSE. DO NOT PROCEED UNTIL YOU HAVE MADE SURE ALL OF THE AMMONIA HAS BEEN DRAINED FROM ALL OF THE HOSES.**
4. ATTACH THE MOUNTING CLAMP ON TO THE TOOL BAR BY DRILLING TWO 17/32 INCH HOLES ON 2" CENTERS. MAKE SURE IT IS MOUNTED ONTO A PORTION OF THE TOOL BAR THAT IS ATLEAST 1/4" THICK. ATTACH THE TWO 1/2" BOLTS AND NUTS SECURELY TO THE CLAMP AND TOOL BAR AND TIGHTEN FIRMLY. THE FEMALE SIDE OF THE COUPLING WILL ALREADY BE ATTACHED TO THE MOUNTING BRACKET BUT MAKE SURE THE COUPLING IS INSTALLED ON THE CORRECT SIDE OF THE BRACKET AS SHOWN IN THE PHOTO BELOW.

NOTE BRACKET ORIENTATION TOOL BAR

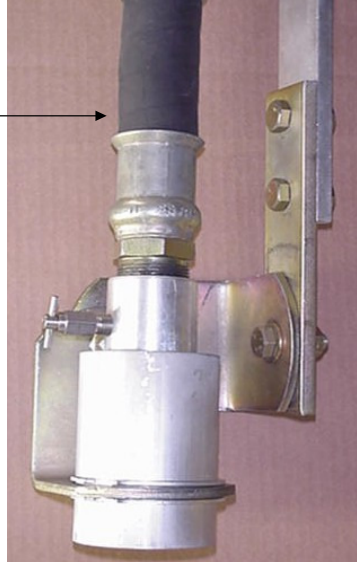


ATTACH THE TWO 1/2" BOLTS AND NUTS DRILL TWO 17/32 INCH HOLES

\*\*\*\*\*  
**MAKE SURE YOU HAVE AT LEAST 18" OF SLACK IN THE SECTION OF HOSE CONNECTING THE A-HFC-114 TO THE APPLICATION EQUIPMENT MOUNTED ON THE TOOL BAR TO ALLOW SUFFICIENT ARTICULATION OF THE UNIT.**  
 \*\*\*\*\*

5. SCREW THE APPLICATOR HOSE INTO THE FEMALE END OF THE COUPLING AND MAKE SURE TO USE PIPE THREAD SEALANT AS SHOWN IN THE PHOTO BELOW

HOSE TO METERING DEVICE



6. IF YOUR SUPPLY HOSE IS ATTACHED TO THE NURSE TANK, SCREW AN ACME ADAPTOR INTO THE 1-1/4" FNPT OF THE MALE END OF THE COUPLING. MAKE SURE TO USE PIPE THREAD SEALANT AS SHOWN IN THE PHOTO BELOW



7. IF YOUR SUPPLY HOSE IS ATTACHED TO THE TOOL BAR THEN SCREW THE SUPPLY HOSE INTO THE 1-1/4" FNPT SIDE OF THE MALE END OF THE COUPLING. AS SHOWN IN THE PHOTO BELOW.



8. ATTACH THE OPERATING INSTRUCTION DECAL TO THE TOOL BAR AS CLOSE TO THE A-HFC-114 AS POSSIBLE

9. FOR CONNECTING THE MALE AND FEMALE ENDS OF THE COUPLING TOGETHER SEE THE "RECONNECTION INSTRUCTIONS" SECTION BELOW.

### RETRO-FIT INSTALLATION INSTRUCTIONS

1. ALWAYS WEAR GOGGLES AND GLOVES AND HAVE EMERGENCY WATER AVAILABLE.
2. CLOSE ALL VALVES.
3. OPEN ALL BLEED VALVES AND DRAIN ALL OF THE AMMONIA FROM THE HOSES ATTACHED TO THE TANK AND THE APPLICATOR. **ALWAYS BE CAREFUL WHEN OPENING A BLEED VALVE TO MAKE SURE THE OUTLET IS POINTING IN A SAFE DIRECTION AND AWAY FROM YOU OR ANYONE ELSE. DO NOT PROCEED UNTIL YOU HAVE MADE SURE ALL OF THE AMMONIA HAS BEEN DRAINED FROM ALL OF THE HOSES.**
4. REMOVE THE OLD COUPLING AND THE LAST "L" SHAPED BRACKET FROM THE UNIT AS SHOWN IN THE PHOTO BELOW.

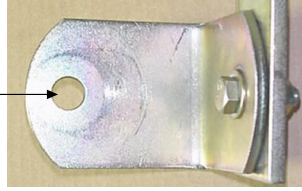


5. THERE ARE 2 DIFFERENT SIZE BRACKETS THAT PIONEER HAS USED WITH THEIR COUPLING. THE OLDER BRACKET HAS A 1/2" BOLT HOLE AND THE NEWER ONE HAS A 3/4" BOLT HOLE. AS SHOWN IN THE PHOTO BELOW.

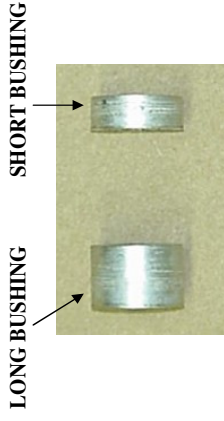
SMALL 1/2" BOLT HOLE BRACKET



BIG 3/4" BOLT HOLE BRACKET

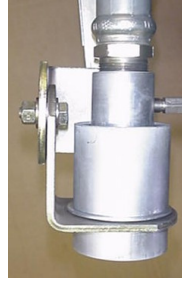
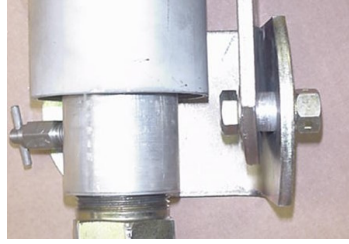
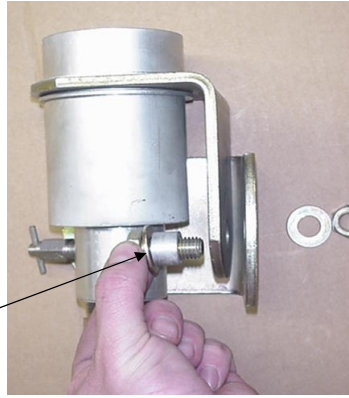


6. IF YOU HAVE THE 1/2" BOLT HOLE BRACKET USE THE SHORT BUSHING, IF YOU HAVE THE 3/4" BOLT HOLE BRACKET USE THE LONG BUSHING AS SHOWN IN THE PHOTO BELOW.



7. ATTACH THE BRACKET WITH THE 1/2" BOLT, WASHERS AND NUT WITH THE CORRECT BUSHING AS SHOWN IN THE PHOTO BELOW AND TIGHTEN FRIMLY. MAKE SURE YOU PUT THE BUSHING ON THE COUPLER BRACKET NOT THE MIDDLE BRACKET AS SHOWN IN THE PHOTO.

BUSHING ON COUPLING BRACKET



8. **\*\*\*\*IMPORTANT\*\*\*\*** MAKE SURE THE BRACKET SWIVELS UP AND DOWN AND SIDE TO SIDE 80 DEGREES TO EACH SIDE OF CENTER LINE. THERE SHALL BE NOTHING OBSTRUCTING THE SWIVEL FEATURE OF THIS UNIT. DO NOT INSTALL ANY APPARATUS; HOSE SUPPORT ANYTHING ELSE THAT WILL IMPEDE THE MOVEMENT OF THE BREAKAWAY. THIS IS VERY IMPORTANT. IF IT DOES NOT SWIVEL UP AND DOWN AND SIDE TO SIDE THEN IT WILL NOT FUNCTION PROPERLY.
9. AFTER YOU HAVE INSTALLED YOUR NEW COUPLING SEE THE "RECONNECTION INSTRUCTIONS" SECTION ABOVE TO CONNECT THE MALE END.

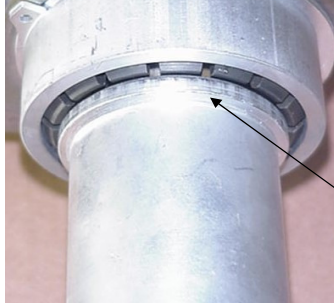
## RECONNECTION INSTRUCTIONS

1. ALWAYS WEAR GOGGLES AND GLOVES AND HAVE EMERGENCY WATER AVAILABLE.
2. CLOSE ALL VALVES.
3. OPEN ALL BLEED VALVES AND DRAIN ALL OF THE AMMONIA FROM THE HOSES ATTACHED TO THE TANK AND THE APPLICATOR. ALWAYS BE CAREFUL WHEN OPENING A BLEED VALVE TO MAKE SURE THE OUTLET IS POINTING IN A SAFE DIRECTION AND AWAY FROM YOU OR ANYONE ELSE. DO NOT PROCEED UNTIL YOU HAVE MADE SURE ALL OF THE AMMONIA HAS BEEN DRAINED FROM ALL OF THE HOSES.
4. INSPECT THE ORINGS TO MAKE SURE THEY ARE IN GOOD CONDITION. NEVER LOOK DIRECTLY INTO THE OPENING OF THE MALE OR FEMALE SIDE OF THE QUICK COUPLING. HOLD IT AT AN ANGLE AWAY FROM YOU TO DO THE INSPECTION SO IF ANY AMMONIA IS LEFT IN THE HOSE IT WILL NOT SPRAY ON YOU OR ANYONE ELSE. GREASE O-RINGS IF NECESSARY. SEE PHOTO BELOW



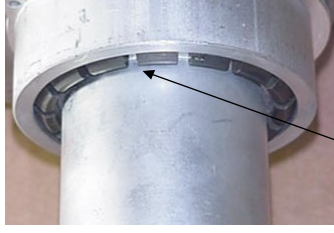
5. SLOWLY INSERT THE MALE END OF THE QUICK COUPLING THAT IS ATTACHED TO THE NURSE TANK HOSE INTO THE FEMALE END OF THE QUICK COUPLING THAT IS ATTACHED TO THE APPLICATOR. IT HELPS SOMETIMES TO TWIST THE MALE END WHEN INSERTING IT TO GET THE MALE TIP PAST THE ORINGS. THEN HOLD THE BRACKET ON THE FEMALE END FIRMLY WITH ONE HAND AND PUSH THE MALE END IN FIRMLY WITH THE OTHER HAND SO IT IS COMPLETELY ATTACHED BY CHECKING TO MAKE SURE THE LOCKING SHOULDER ON THE MALE END IS FULLY INSERTED INTO THE FEMALE END OF THE COUPLING. SEE PHOTO BELOW.

**NOT INSTALLED CORRECTLY**



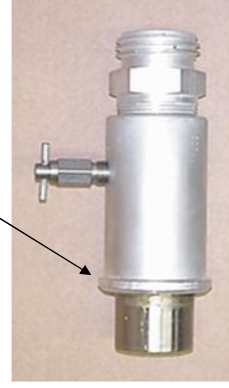
LOCKING SHOULDER NOT INSERTED

**INSTALLED CORRECTLY**

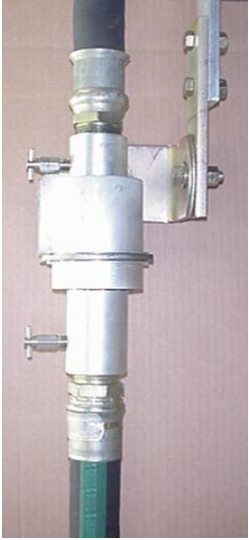


LOCKING SHOULDER INSERTED

LOCKING SHOULDER



COMPLETELY INSTALLED UNIT



6. SHAKE HOSE TO MAKE SURE IT IS SECURELY ATTACHED.
7. CLOSE ALL BLEED VALVES

## DISCONNECTION INSTRUCTIONS

1. ALWAYS WEAR GOGGLES AND GLOVES AND HAVE EMERGENCY WATER AVAILABLE.
2. CLOSE ALL VALVES.
3. OPEN ALL BLEED VALVES AND DRAIN ALL OF THE AMMONIA FROM THE HOSES ATTACHED TO THE TANK AND THE APPLICATOR. **ALWAYS BE CAREFUL WHEN OPENING A BLEED VALVE TO MAKE SURE THE OUTLET IS POINTING IN A SAFE DIRECTION AND AWAY FROM YOU OR ANYONE ELSE. DO NOT PROCEED UNTIL YOU HAVE MADE SURE ALL OF THE AMMONIA HAS BEEN DRAINED FROM ALL OF THE HOSES.**
4. PULL THE NURSE TANK HOSE FIRMLY TO DISCONNECT THE MALE END OF THE QUICK COUPLING FROM THE FEMALE END.

## MAINTENANCE INSTRUCTIONS

1. ALWAYS WEAR GOGGLES AND GLOVES AND HAVE EMERGENCY WATER AVAILABLE.
2. CLOSE ALL VALVES.
3. OPEN ALL BLEED VALVES AND DRAIN ALL OF THE AMMONIA FROM THE HOSES ATTACHED TO THE TANK AND THE APPLICATOR. **ALWAYS BE CAREFUL WHEN OPENING A BLEED VALVE TO MAKE SURE THE OUTLET IS POINTING IN A SAFE DIRECTION AND AWAY FROM YOU OR ANYONE ELSE. DO NOT PROCEED UNTIL YOU HAVE MADE SURE ALL OF THE AMMONIA HAS BEEN DRAINED FROM ALL OF THE HOSES.**
4. PULL THE NURSE TANK HOSE FIRMLY TO DISCONNECT THE MALE END OF THE QUICK COUPLING FROM THE FEMALE END.
5. REMOVE THE HOSES FROM BOTH THE FEMALE END AND MALE END OF THE QUICK COUPLING SO THAT THE QUICK COUPLING IS NOT CONNECTED TO ANY HOSES.
6. INSPECT THE 2 O-RINGS IN THE FEMALE SIDE OF THE COUPLING FOR CUTS OR PITS IN THE O-RING. REPLACE THEM IF THERE ARE ANY CUTS OR PITS OR SEAM TO BE DRYED OUT OR AGING. IF THEY ARE IN GOOD SHAPE APPLY SOME GREASE TO THEM TO ENSURE THEY REMAIN IN GOOD CONDITION. **NEVER LOOK DIRECTLY**

**INTO THE OPENING OF THE MALE OR FEMALE SIDE OF THE QUICK COUPLING. HOLD IT AT AN ANGLE AWAY FROM YOU TO DO THE INSPECTION SO IF ANY AMMONIA IS LEFT IN THE COUPLING IT WILL NOT SPRAY ON YOU OR ANYONE ELSE.**

7. INSPECT THE CHECK VALVES IN THE MALE AND FEMALE ENDS OF THE QUICK COUPLING BY PRESSING IN ON THE CHECK VALVE WITH YOUR THUMB TO MAKE SURE THEY MOVE IN AND OUT FREELY.
8. CLEAN ANY DIRT OR DEBRIS THAT YOU FIND IN EITHER END OF THE COUPLING.
9. SPIN THE LOCKING COLLET IN THE FEMALE END OF THE QUICK COUPLING WITH YOUR FINGER TO MAKE SURE IT MOVES FREELY. USE WD-40 OR A SIMILAR PRODUCT IF NECESSARY TO GET IT TO MOVE FREELY.
10. RECONNECT THE HOSES THAT WERE REMOVED AND FOLLOW THE “RECONNECTION INSTRUCTIONS” SECTION ABOVE TO RECONNECT THE QUICK COUPLING.

**IF YOU HAVE ANY QUESTIONS PLEASE CALL US AT  
800-537-5642**

## CYLINDER OPERATING INSTRUCTIONS

**Wing Fold Cylinder - Float Position**

**Wheel Lift Cylinders - Standard Position**

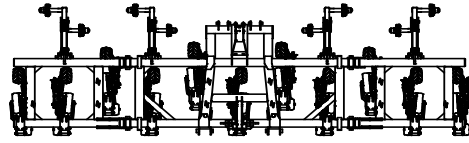
**\* Failure to operate cylinders in the correct position may cause damage to the cylinders**

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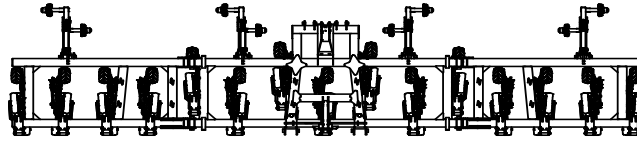
### PURGING INSTRUCTIONS FOR REPHASING CYLINDERS

- To properly purge air from the system, cylinders should be fully extended to the rephasing mode.
- Hold the cylinders in the fully extended mode for approximately 30 seconds, retract the cylinders and repeat until all air is purged from the system. Make sure the tractor RPM is moderate so the hydraulic pump is at its full capacity.
- Initial system start-up should be done with the rod end of the cylinders unpinned, making sure to support the rod and watch that the rod will not interfere with any framework or other objects. During initial start-up, the seals may need a few cycles to seat themselves for a good seal.
- Patience is the key and air is the worst enemy. Never loosen a fitting to bleed off the system. This can be dangerous.
- To maintain the rephasing system during normal operating, the cylinders should always be cycled to the full extent of their stroke each time they are operated.

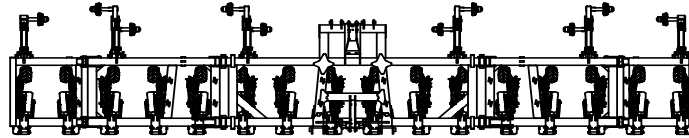
# LAYOUT & ROW UNIT PLACEMENT



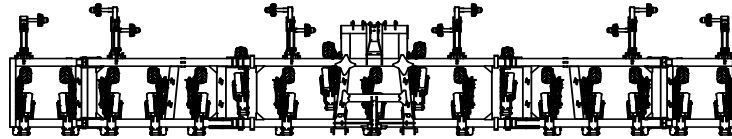
4400414 DWHS5428 11K



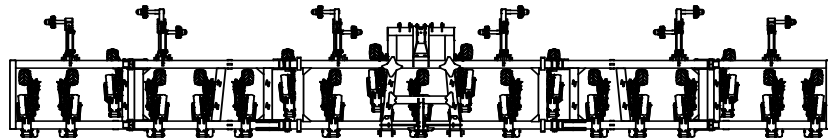
4400406 DWHS5435 15K



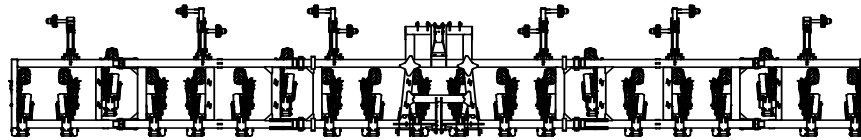
4400242 DWHS5440 16K



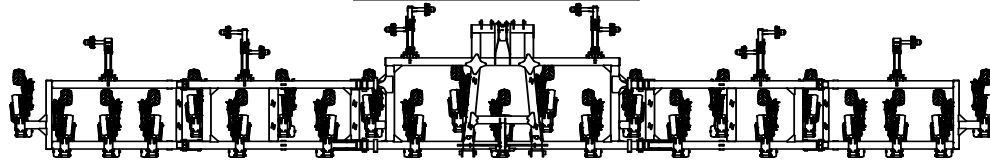
4400407 DWHS5440 17K



4400408 DWHS5445 19K



4400420 DWHS5445 20K



4400423 DWHS5455 23K

DRAWN BY	--	10/25/2019
CHECKED BY		
PRINT DATE		1/20/2022
CONFIG.	Default	
COMMENTS:		



DWG: DWHS TOOLBARS - LAYOUT AND ROW UNIT PLACEMENT

SIZE	SHEET TITLE:	REV
<b>A</b>	Sheet 1	<b>A</b>

SCALE: 1:96 SHEET 1 OF 1

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**FOR PARTS, CALL 1.800.342.7498**

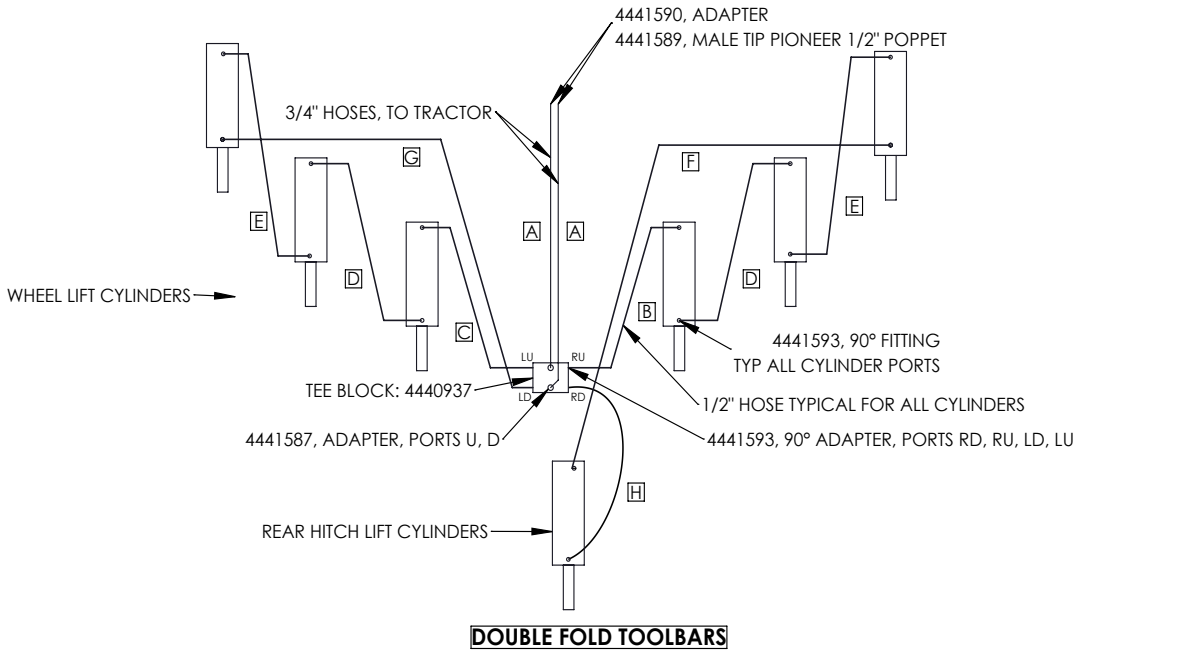
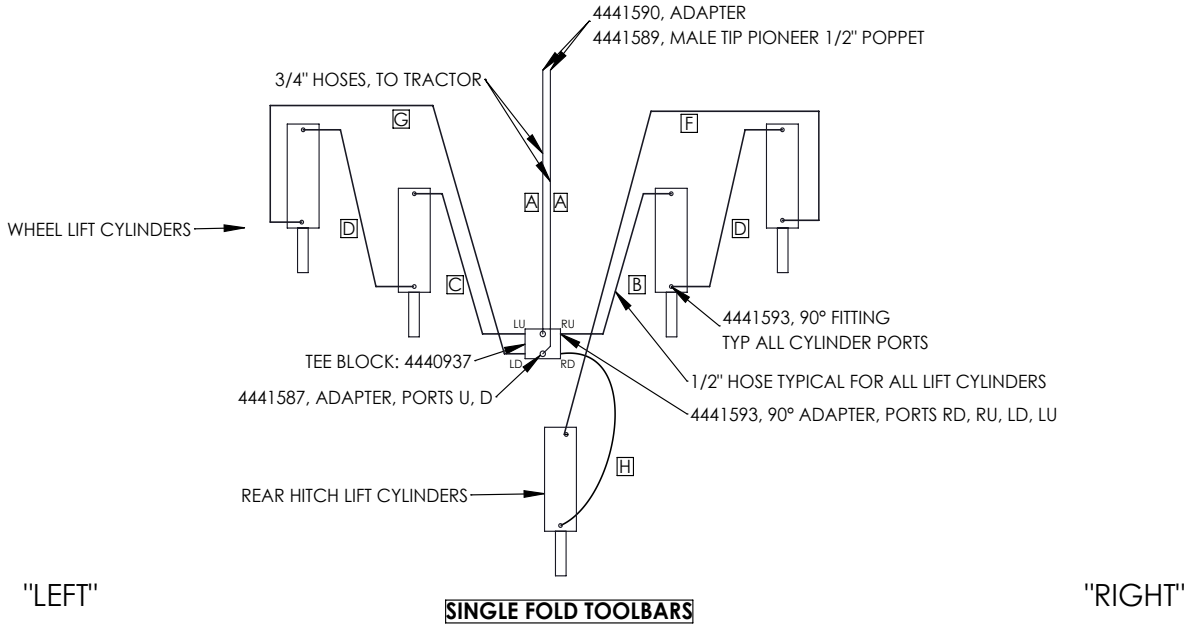
# CYLINDERS

PART #	DESCRIPTION	CENTER & WING DIMENSIONS			WING CYLINDERS		LIFT KIT - STANDING BEHIND THE BAR LEFT TO RIGHT								SELF LEVELLING HITCH
		CENTER	INBOARD	OUTBOARD	INBOARD	OUTBOARD	LEFT OUTBOARD	LEFT INBOARD	LEFT CENTER	RIGHT CENTER	RIGHT INBOARD	RIGHT OUTBOARD			
4400414	DWHS5428-66 (11K)	156" (13')	75"	N/A	4"X36"	N/A	N/A	3.5"X12"	3.75"X12"	3.75"X12"	3.5"X12"	N/A	N/A		
4400406	DWHS5435-66 (15K)	186" (15.5')	120"	N/A	4"X36"	N/A	N/A	3.75"X12"	4"X12"	4"X12"	3.75"X12"	N/A	N/A		
4400242	DWHS5440-66 (16K)	180" (15')	90"	48"	4.5"X36"	4"X30"	3.5"X12"	3.75"X12"	4"X12"	4"X12"	3.75"X12"	3.5"X12"	3.5"X12"		4.5"X10"
4400407	DWHS5440-66 (17K)	186" (15.5')	102"	48"	4.5"X36"	4"X30"	3.5"X12"	3.75"X12"	4"X12"	4"X12"	3.75"X12"	3.5"X12"	3.5"X12"		4.5"X10"
4400408	DWHS5445-66 (19K)	186" (15.5')	102"	80"	4.5"X36"	4"X30"	3.5"X12"	3.75"X12"	4"X12"	4"X12"	3.75"X12"	3.5"X12"	3.5"X12"		4.5"X10"
4400420	DWHS5445-66 (20K)	192" (16')	118"	76"	4.5"X36"	4"X30"	3.5"X12"	3.75"X12"	4"X12"	4"X12"	3.75"X12"	3.5"X12"	3.5"X12"		4.5"X10"
4400423	DWHS5455-66 (23K)	192" (16')	118"	117"	4.5"X36"	4"X30"	3.5"X12"	3.75"X12"	4"X12"	4"X12"	3.75"X12"	3.5"X12"	3.5"X12"		4.5"X10"

# TOOLBAR HYDRAULICS - LIFT CYLINDERS

## TOOLBAR WHEEL LIFT CYLINDER LAYOUT

NOTE: ORIENTATION OF "LEFT" AND "RIGHT" IS DEFINED AS YOUR VIEW WHEN STANDING BEHIND THE TOOLBAR  
 NOTE: HOSE LOCATIONS ARE IDENTIFIED BY A LETTER WITHIN A BOX, I.E. **A**



DRAWN BY	RICH SMOTHERS
CHECKED BY	
PRINT DATE	
CONFIG.	



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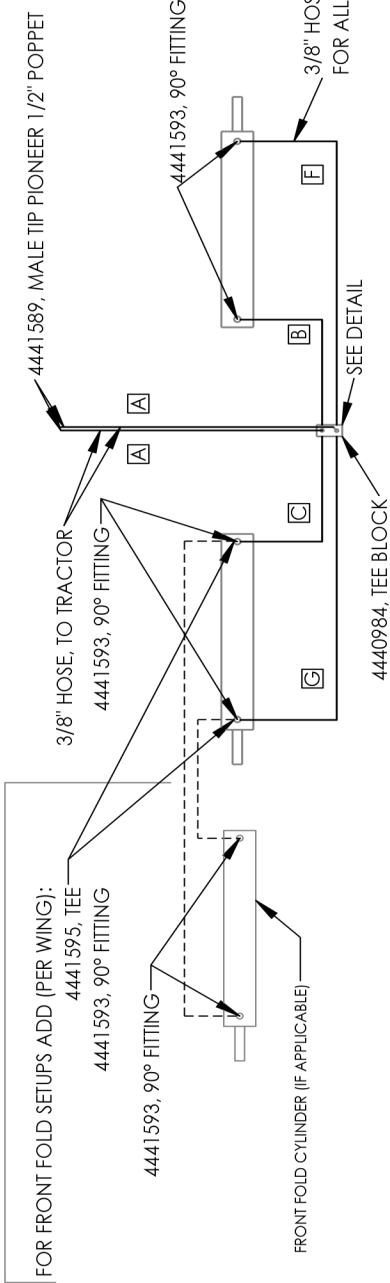
COMMENTS:

DWG: TOOLBAR HYDRAULICS - LIFT CYLINDERS

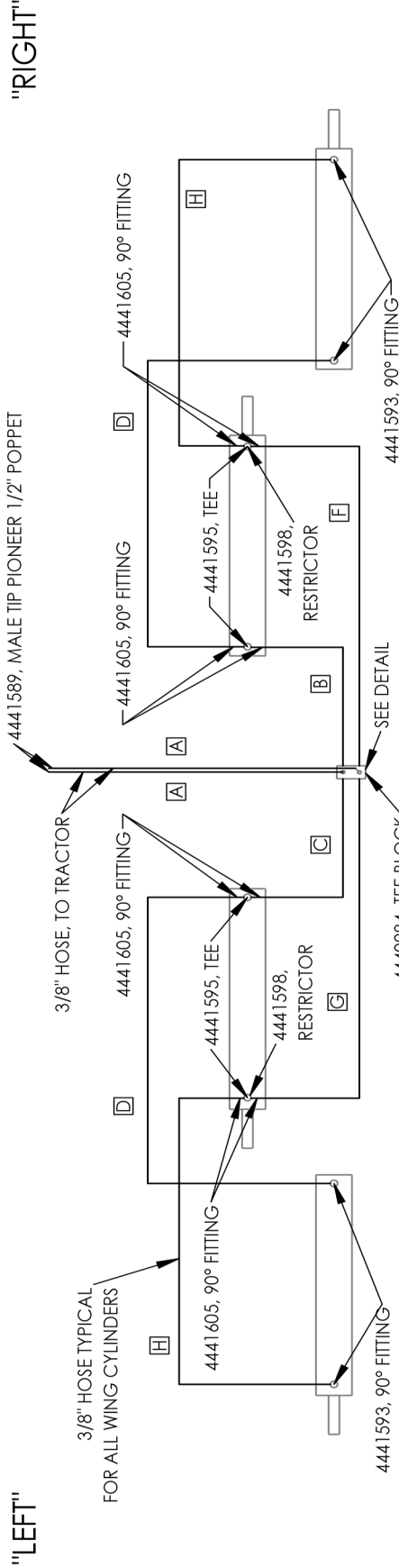
SIZE <b>A</b>	SHEET TITLE: Sheet1	REV <b>A</b>
SCALE: 1:12		SHEET 1 OF 1

# TOOLBAR WING CYLINDER LAYOUT - SINGLE FOLD AND DOUBLE FOLD

NOTE: ORIENTATION OF "LEFT" AND "RIGHT" IS DEFINED AS YOUR VIEW WHEN STANDING BEHIND THE TOOLBAR  
NOTE: HOSE LOCATIONS ARE IDENTIFIED BY A LETTER WITHIN A BOX, I.E. [A]



## TOOLBAR HYDRAULICS - WING CYLINDERS, SINGLE FOLD



## TOOLBAR HYDRAULICS - WING CYLINDERS, DOUBLE FOLD

DRAWN BY	JEREMIAH JONDLE	11/9/2021
CHECKED BY		
PRINT DATE	3/10/2026	
CONFIG.	WING LIFT	
COMMENTS:		



DWG: TOOLBAR HYDRAULICS - WING CYLINDERS, SINGLE FOLD AND DOUBLE FOLD

SIZE SHEET TITLE: **A**

REV **C**

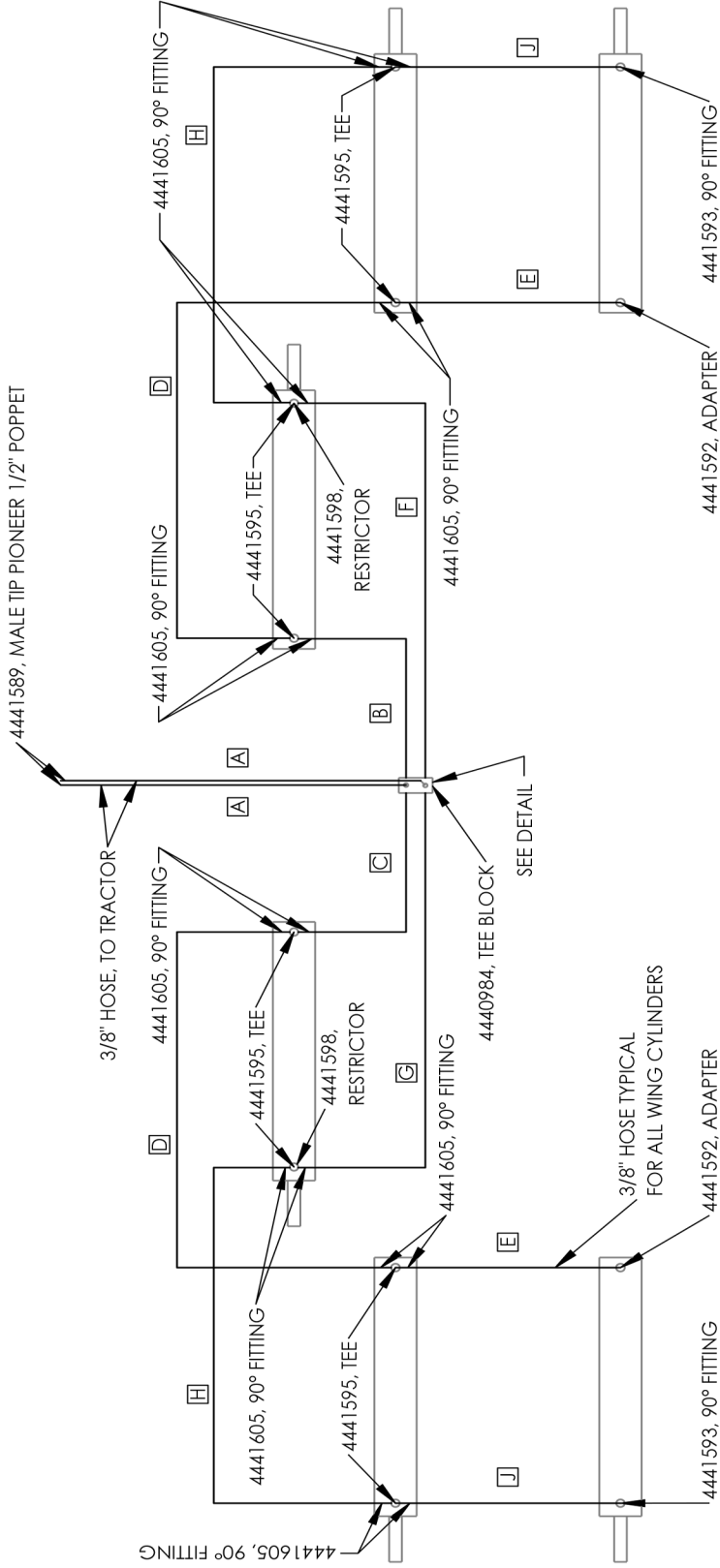
SCALE: 1:12 SHEET 1 OF 1

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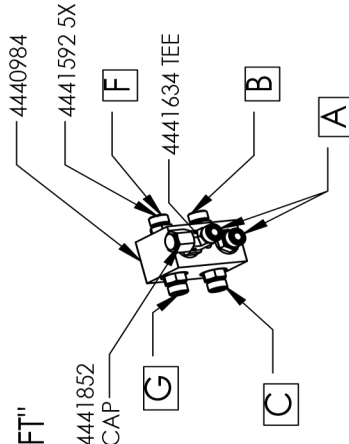
C:\EPDM\_Vault\Tool Bar\TB DOCUMENTS\DWHS MANUALS\

# TOOLBAR WING CYLINDER LAYOUT - DOUBLE FOLD WITH DUAL OUTBOARD CYLINDERS

NOTE: ORIENTATION OF "LEFT" AND "RIGHT" IS DEFINED AS YOUR VIEW WHEN STANDING BEHIND THE TOOLBAR  
NOTE: HOSE LOCATIONS ARE IDENTIFIED BY A LETTER WITHIN A BOX. I.E. **A**



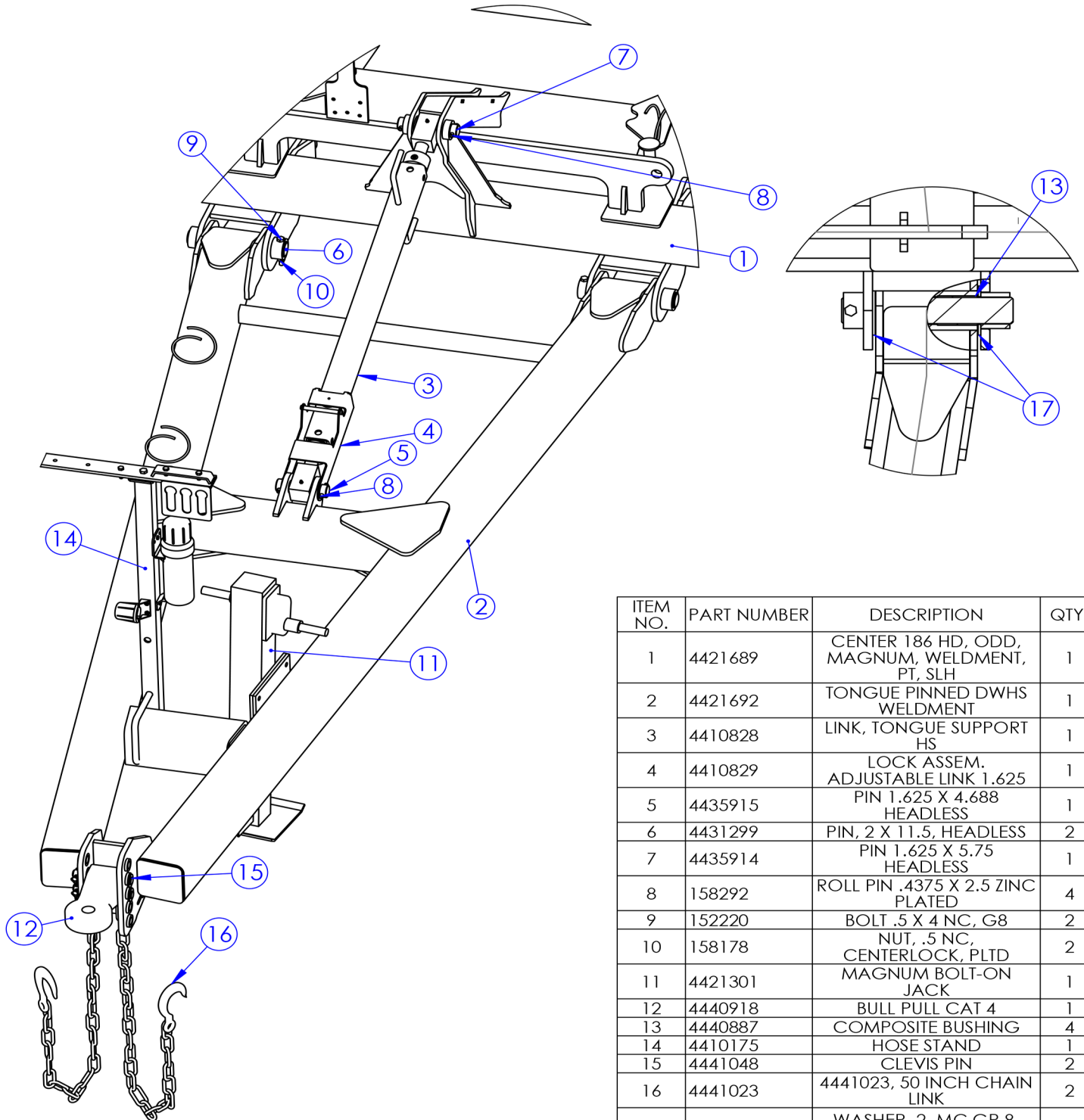
"LEFT"



"RIGHT"

<b>THE DALTON</b> A G P R O D U C T S 602 E. VAN BUREN ST., LENOX, IA 50851		DRAWN BY: JEREMIAH JONDLE CHECKED BY: PRINT DATE: 3/10/2026 CONFIG: WING LIFT COMMENTS:	11/9/2021
<b>PROPRIETARY AND CONFIDENTIAL</b> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF DALTON AG. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF DALTON AG IS PROHIBITED.		DWG: TOOLBAR HYDRAULICS - WING CYLINDERS, DOUBLE FOLD WITH DOUBLE OUTBOARD CYLINDERS SIZE: <b>A</b> REV: <b>C</b> SHEET TITLE:	
C:\EPDM_Vault\Tool Bar\TB DOCUMENTS\DWHS MANUALS\		SCALE: 1:12	SHEET 1 OF 1

# BULL PULL TONGUE AND HOSE STAND ASSEMBLY



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	4421689	CENTER 186 HD, ODD, MAGNUM, WELDMENT, PT, SLH	1
2	4421692	TONGUE PINNED DWHS WELDMENT	1
3	4410828	LINK, TONGUE SUPPORT HS	1
4	4410829	LOCK ASSEM. ADJUSTABLE LINK 1.625	1
5	4435915	PIN 1.625 X 4.688 HEADLESS	1
6	4431299	PIN, 2 X 11.5, HEADLESS	2
7	4435914	PIN 1.625 X 5.75 HEADLESS	1
8	158292	ROLL PIN .4375 X 2.5 ZINC PLATED	4
9	152220	BOLT .5 X 4 NC, G8	2
10	158178	NUT, .5 NC, CENTERLOCK, PLTD	2
11	4421301	MAGNUM BOLT-ON JACK	1
12	4440918	BULL PULL CAT 4	1
13	4440887	COMPOSITE BUSHING	4
14	4410175	HOSE STAND	1
15	4441048	CLEVIS PIN	2
16	4441023	4441023, 50 INCH CHAIN LINK	2
17	158263	WASHER, 2, MC GR 8, PLATED	4

DRAWN BY -- 12/14/2020  
 CHECKED BY  
 PRINT DATE 9/6/2024  
 CONFIG. Default



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COMMENTS:

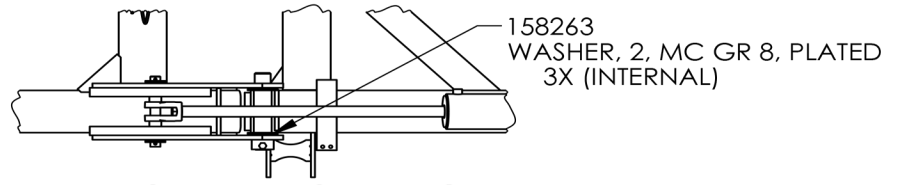
DWG: PINNED TONGUE ATTACHMENT HARDWARE

SIZE **A** SHEET TITLE: Sheet1 REV **A**

**FOR PARTS, CALL 1.800.342.7498**

SCALE: 1:20 SHEET 1 OF 1

# CYLINDERS AND PINS



TOP VIEW, INBOARD HINGE

4410443 PIN KIT, INCLUDES ROLL PINS

4435556  
BUSHING, CENTER LIFT CYLINDER  
2X (INTERNAL)

4435253  
PIN, 1.25 X 8.8125, HEADLESS

158249  
WASHER, 1.25, MC GR 8, PLATED

4440887  
COMPOSITE BUSHING, 2.75" L X 2" ID  
2X EACH CENTER FRAME  
WING HINGE (INTERNAL)

4434169  
PIN, 2 X 10.06, HEADLESS

152301  
BOLT .5625 X 4 NC GRD 8 ZINC YELLOW

4435071  
PIN, 2 X 11.625, HEADLESS

141078  
HEADED CYLINDER PIN WITH (1) COTTER PIN

158059  
ROLL PIN .31 X 2

152301  
BOLT .5625 X 4 NC GRD 8 ZINC YELLOW

4440887  
COMPOSITE BUSHING, 2.75" L X 2" ID  
2X (INTERNAL)

FRONT VIEW, SINGLE LIFT TOOLBAR

158264  
WASHER, 1.5, SAE GR 8, PLATED  
2X (INTERNAL)

TOP VIEW, OUTBOARD HINGE

4421965  
OUTER LINK, 10 DEG FLAT FOLD

158099  
WASHER, 1.0 USS, HARDENED

158059  
ROLL PIN .31 X 2

4421048  
PIN, 1 X 7.5, HEADED

4420897  
PIN, 1.5 X 9.125, HEADED

158059  
ROLL PIN .31 X 2

4420314  
PIN, 1 X 4.25, HEADED

101689  
ROLL PIN .375 X 2

4421966  
INNER LINK, 10 DEG FLAT FOLD

158059  
ROLL PIN .31 X 2

4421048  
PIN, 1 X 7.5, HEADED

158059  
ROLL PIN .31 X 2

4420888  
PIN, 1 X 9.75, HEADED

SAME AS SINGLE LIFT TOOLBAR

FRONT VIEW, DOUBLE LIFT TOOLBAR

DRAWN BY	JEREMIAH JONDLE	11/5/2021
CHECKED BY		
PRINT DATE		2/19/2026
CONFIG.	Default	



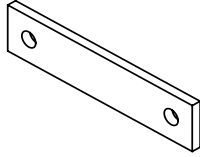
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PROHIBITED.

COMMENTS:

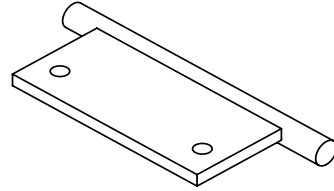
DWG:  
DWHS TOOLBAR -LIFT AND WING PINS

SIZE <b>A</b>	SHEET TITLE: Sheet1	REV <b>A</b>
SCALE: 1:36	SHEET 1 OF 1	

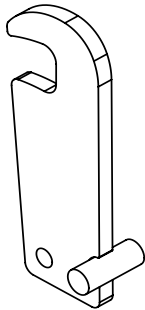
# WING LOCK OPTIONS



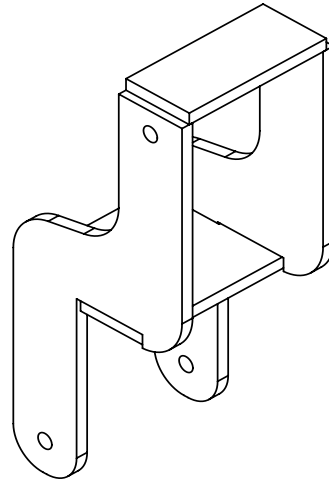
**TB 4435458 BOLT PLATE, WING LOCK HOOK, 6X6**



**TB 4420863 WING LOCK HOOK, 6X6**



**4420945 WING LATCH**



**4420944 TB WING LOCK, 6x6, OFFSET BASE**

DRAWN BY	--	2/13/2012
CHECKED BY		
PRINT DATE		11/8/2021
CONFIG.	LEFT	



DWG: DWHS WING LOCK COMPONENTS

SIZE	SHEET TITLE:	REV
<b>A</b>	Sheet1	<b>A</b>

SCALE: 1:8 SHEET 1 OF 1

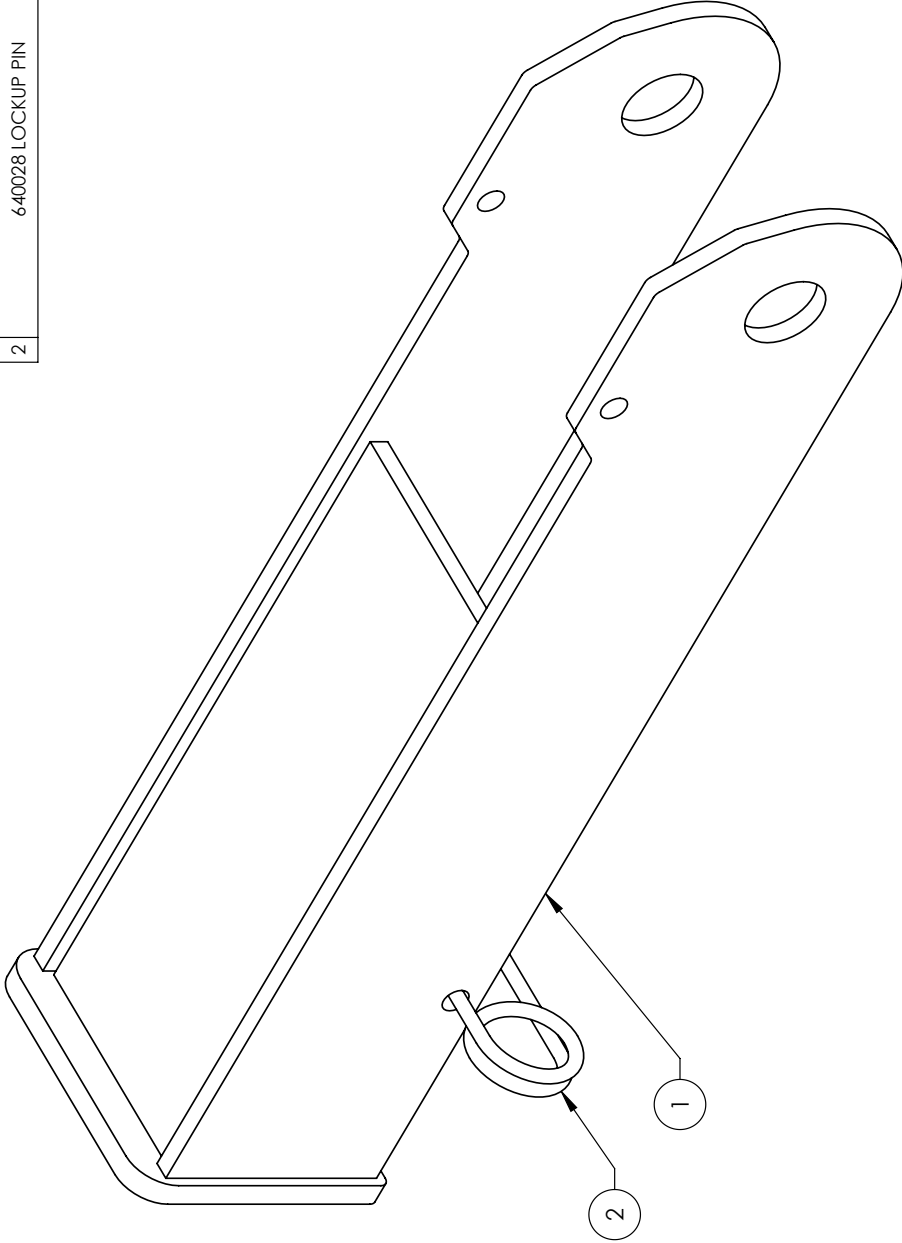
**PROPRIETARY AND CONFIDENTIAL**  
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COMMENTS:

**FOR PARTS, CALL 1.800.342.7498**

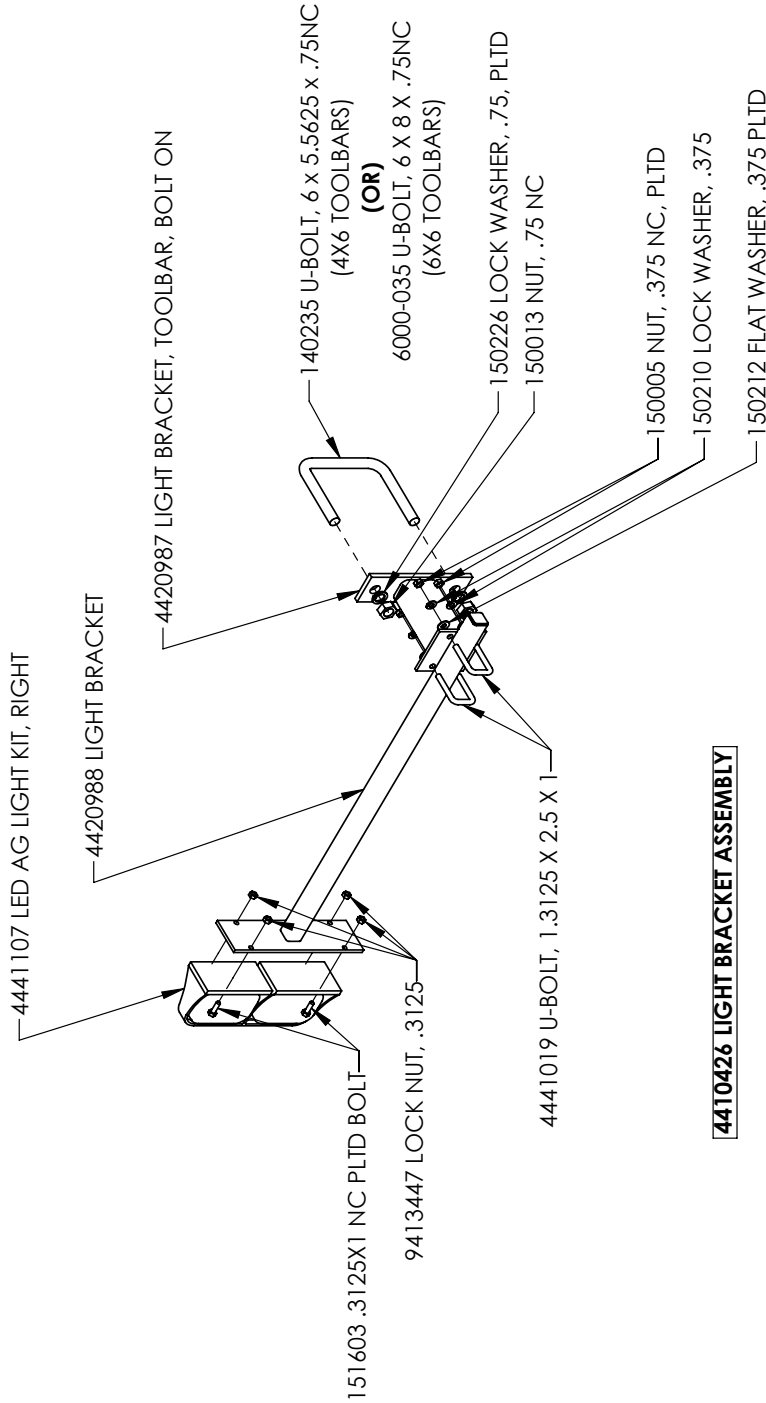
# TOOLBAR CYLINDER STOP

ASSEMBLY			
#	PART NUMBER	PROCESS	Q
1	4421505 HIGH SPEED CYLINDER LOCKUP	SUB-WELDMENT	1
2	640028 LOCKUP PIN	PURCHASE	1




**4410773 HIGH SPEED CYLINDER LOCKUP**

DRAWN BY	Jeremy Newton	4/16/2018	<b>Dalton</b> A C P R O D U C T S 602 E. VAN BUREN ST., LENOX, IA 50851	
CHECKED BY				
PRINT DATE	6/27/2019			
CONFIG.	Default			
COMMENTS:				DWG: 4410773 HIGH SPEED CYLINDER LOCKUP
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF DALTON AG. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF DALTON AG IS PROHIBITED.				SIZE SHEET TITLE: A 4410773 HIGH SPEED CYLINDER LOCKUP B.O.M. REV 0
C:\_EPDM_Vault\Tool Bar\TB Assemblies\TB SubAssemblies\				SCALE: 1:2 SHEET 1 OF 1
5      4      3      2      1				1

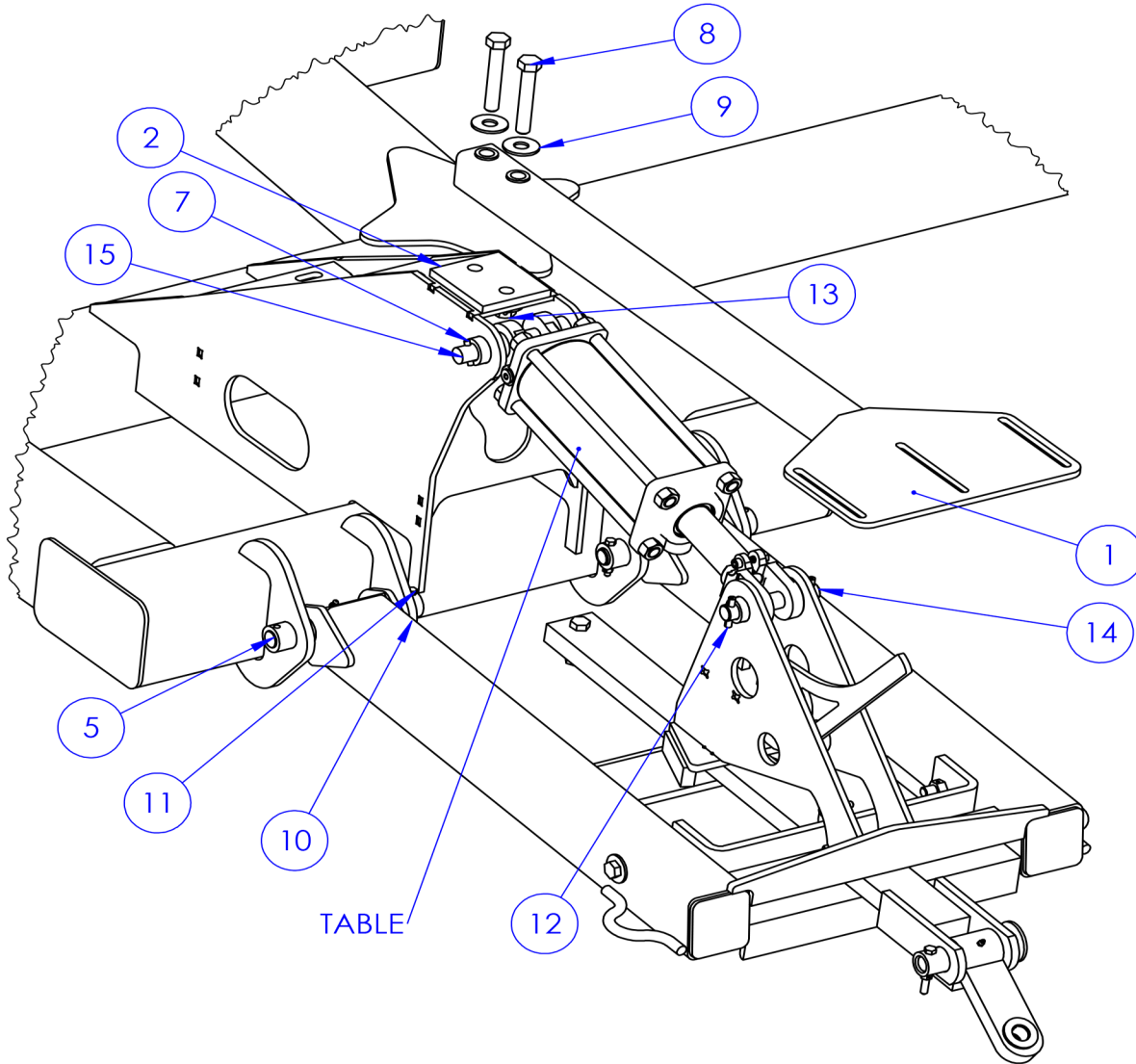


**4410426 LIGHT BRACKET ASSEMBLY**

**NOTE:**  
ASSEMBLY CONTAINS A RIGHT AND LEFT CONFIGURATION PER TOOLBAR. RIGHT CONFIGURATION SHOWN.

DRAWN BY	RICH SMOTHERS	2/14/2017	 DALTON 602 E. VAN BUREN ST., LENOX, IA 50651	
CHECKED BY				
PRINT DATE	5/17/2017		DWG:	TOOLBAR LIGHT KIT
CONFIG.	Default		SIZE	SHEET TITLE: Sheet1
COMMENTS:			SCALE: 1:12	REV
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF DALTON AG. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF DALTON AG IS PROHIBITED.				SHEET 1 OF 1

# SLH MOUNTING HARDWARE



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	4421806	QUICK COUPLER ARM	1
2	4431393	SPACER, QUICK COUPLER MOUNT SLH	1
5	4435460	PIN, 1 X 9.75, HEADLESS	2
7	158028	ROLL PIN, .3125 X 1.5	1
8	152620	BOLT .75 X 4.5 NC GRD 5 PLTD	2
9	150227	FLAT WASHER, .75 USS PLTD	4
10	158293	5/16-18 GR8 CENTER LOCK NUT ZINC	2
11	151604	BOLT, .3125 X 2.25 NC PLTD	2
12	101689	ROLL PIN .375X2	2
13	158021	NUT, CENTERLOCK, .75	2
14	4431611	PIN, 1 X 6, HEADLESS	1
15	4420593	PIN, 1 X 7.125 HEADED	1

TOOLBAR TYPE	PART NUMBER	DESCRIPTION
DW	LION 375-10-137R WPC	CYLINDER, 3.75" X 10" X 1.37" ROD, REPHASE, 3000 PSI, WELDED,
DWHS	MID-450-10-150R	CYLINDER, 4.5 X 10.0 X 1.5 REPHASING

DRAWN BY	--	12/14/2020
CHECKED BY		
PRINT DATE		7/11/2024
CONFIG.	Default	



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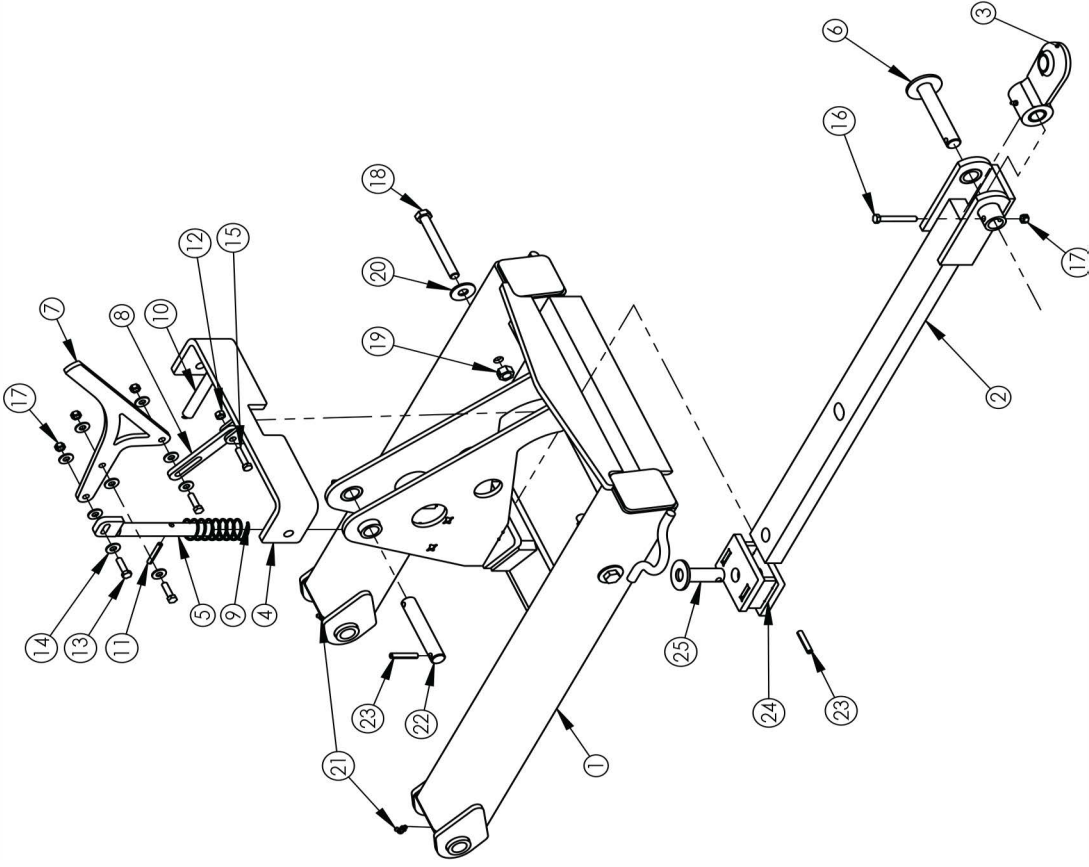
COMMENTS:

DWG: SLH MOUNTING HARDWARE		
SIZE <b>A</b>	SHEET TITLE: Sheet1	REV <b>A</b>
SCALE: 1:10	SHEET 1 OF 1	

**FOR PARTS, CALL 1.800.342.7498**

# REAR HITCH, SLH

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	4421625	REAR HITCH, SELF LEVELING	1
2	4420857	DRAW BAR, REAR HITCH, HD	1
3	4410941	FLAPPER ASSEM, FORGED SWIVEL BALL	1
4	4420858	SWING LATCH, REAR HITCH, HD	1
5	4420856	HITCH PIN, REAR HITCH, HD	1
6	4420213	PIN, 1 X 5.25, HEADED	1
7	4435468	HANDLE, REAR HITCH	1
8	4435448	LINKAGE, REAR HITCH	1
9	4440969	COMPRESSION SPRING, REAR HITCH PIN	1
10	140057	SPRING EXT. .75 X 4.5	1
11	158015	ROLL PIN, .3125 X 2.00	1
12	150005	NUT, .375 NC, PLTD	1
13	151806	BOLT, .375 X 1.5 NC, G5, PLTD	3
14	150212	FLAT WASHER USS, .375 PLTD	9
15	151808	BOLT .375 X 1.75 NC GRD 5	1
16	151816	BOLT, .375 X 3 NC, G8, PLTD	1
17	150022	NUT, .375, LOCKING, PLTD	4
18	152446	BOLT, .625 X 6 NC, G5	2
19	188082	NUT, .625 NC, CENTERLOCK, PLTD	2
20	150224	FLAT WASHER, .625 PLTD	2
21	158046	FITTING, .25", .25-28 90 GREASE FIT# 1911-B-1	2
22	4431611	PIN, 1 X 6, HEADLESS	1
23	101689	ROLL PIN .375X2	3
24	4421928	DRAWBAR STOP WELDMENT	1
25	4421669	4421669 PIN, 1 X 3.0625, HEADED	1



DRAWN BY	Donald Sundberg	8/10/2020
CHECKED BY		
PRINT DATE	11/7/2024	
CONFIG.	Default	
COMMENTS:		

**Dalton**  
 THE USA  
 A C P R O D U C T S  
 602 E. VAN BUREN ST., LENOX, IA 50851

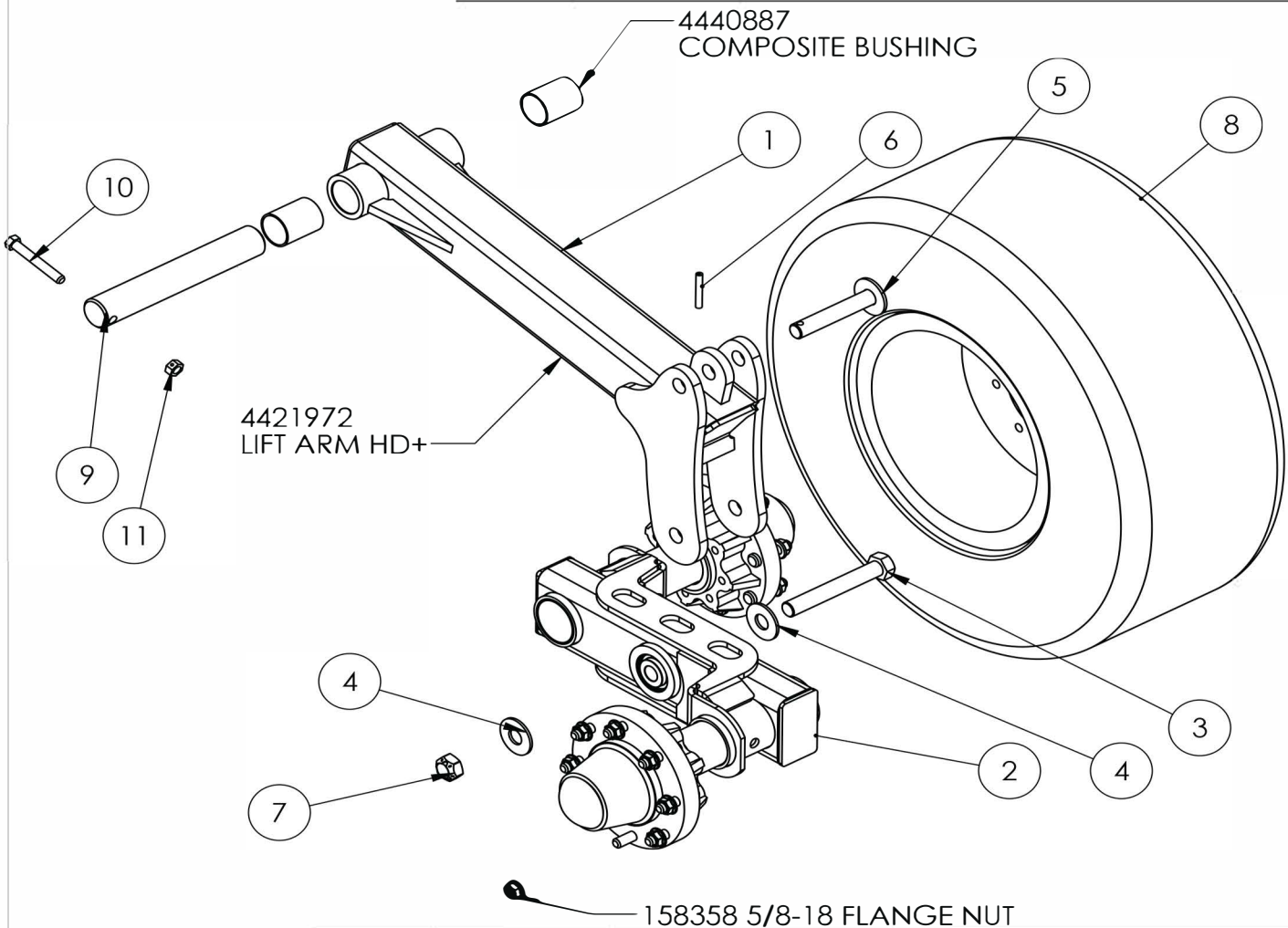
DWG:	4410801 REAR SLH PARTS
SIZE	A
SHEET TITLE:	Sheet
REV	E
SCALE:	1:24
	SHEET 1 OF 1

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FOR PARTS, CALL 1.800.342.7498	3	2	1
	5	4	

## LIFT ARM WITH WALKER

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	4410988	LIFT WHEEL WALKER ARM, HD+, COMPOSITE	1
2	4410983	WALKER W HUBS, 758 8 BOLT, BOLT IN SPINDLE, UNIT BEARING PIVOT	1
3	158326	BOLT, 1"-14 X 7, GR 8, PLATED YELLOW	1
4	158099	WASHER, FLAT, 1.0 USS THROUGH HARDENED	2
5	4420213	PIN, 1 X 5.25, HEADED	1
6	158014	ROLL PIN, .375 X 2.5	1
7	158327	NUT, TOP LOCK, 1-14, GRADE C, ZINC PLATED	1
8	4411003	320/70R15 RADIAL TIRE ON 15 X10 8-BOLT SOLID BLACK WHEEL	1
9	4435071	PIN, 2 X 11.625, HEADLESS	1
10	152301	BOLT .5625 X 4 NC GRD 8 ZINC YELLOW	1
11	158073	NUT, .5625 NC, CENTERLOCK, PLTD	1



DRAWN BY	--	2/17/2026
CHECKED BY		
PRINT DATE		2/19/2026
CONFIG.	Default	



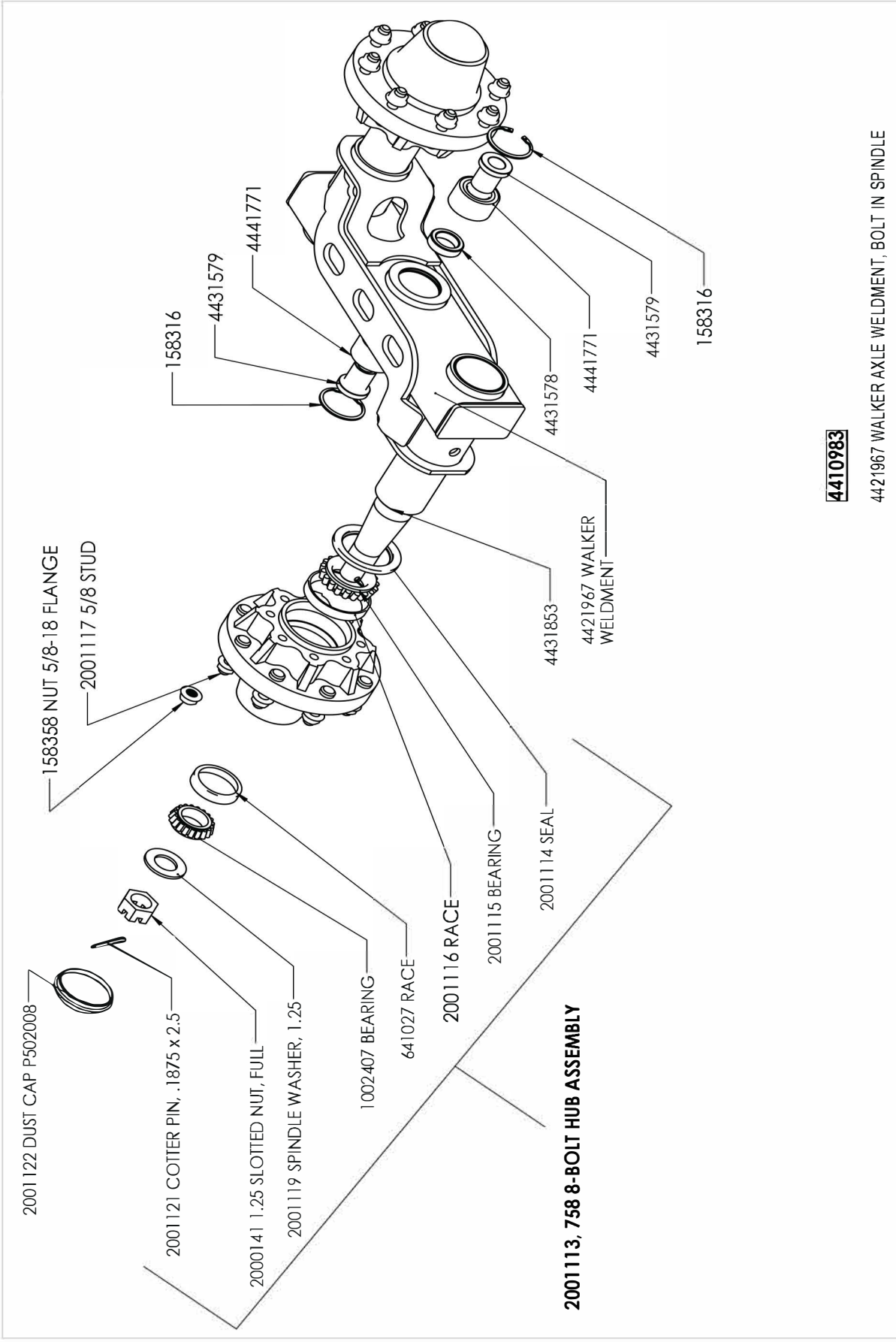
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COMMENTS:

DWG:	LIFT ARM W WALKER HD+	
SIZE	SHEET TITLE:	REV
<b>A</b>	Sheet1	<b>A</b>
SCALE: 1:10	SHEET 1 OF 1	

**FOR PARTS, CALL 1.800.342.7498**

# WALKER HUBS, BOLT IN SPINDLE



**2001113, 758 8-BOLT HUB ASSEMBLY**

**4410983**

4421967 WALKER AXLE WELDMENT, BOLT IN SPINDLE

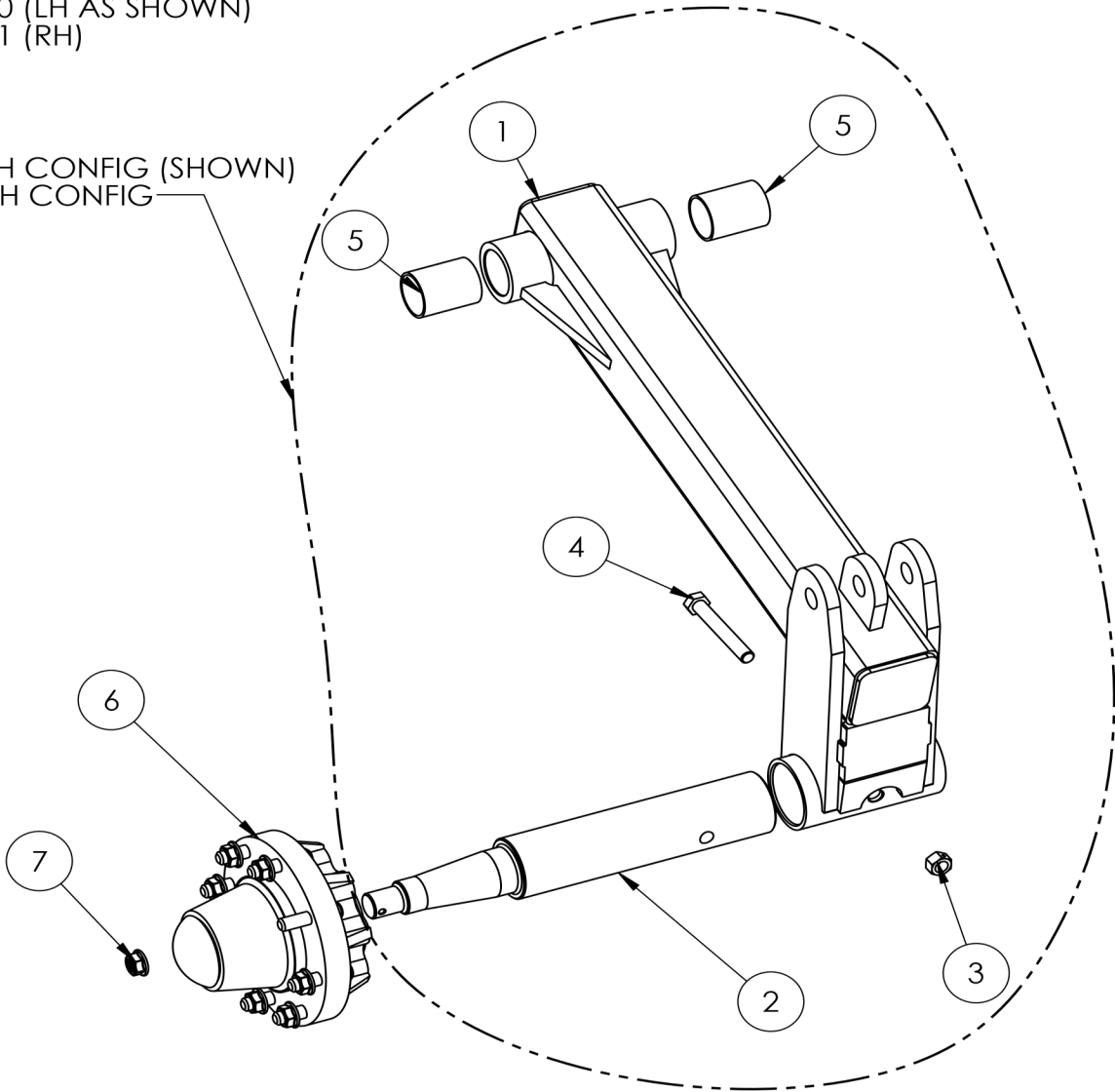
UNLESS OTHERWISE SPECIFIED TOLERANCES TO BE: ANGLES: ± 1.0° FRACTIONS <6": ±1/32, >6": 1/16 X.X: ± 0.06 X.XX: ± 0.03 X.XXX: ± 0.005	DRAWN BY System Administrator CHECKED BY PRINT DATE 2/18/2026 CONFIG. RI GHT SIDE FORWARD COMMENTS:	7/11/2012	Dalton A G P R O D U C T S 602 E. VAN BUREN ST., LENOX, IA 50851
DWG: 4410983 WALKER W HUBS, 758 8 BOLT, BOLT IN SPINDLE, UNIT BEARING PIVOT			REV A SHEET TITLE: Sheet SIZE: A
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF DALTON AG. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF DALTON AG IS PROHIBITED.			SCALE: 1:8 SHEET 1 OF 2

## SINGLE LIFT ASSEMBLY - BOLT IN SPINDLE

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	4421990	SINGLE LIFT-GAUGE WHEEL, BOLT IN	1
2	4431903	SPINDLE, BOLT IN, 758 HUB, TOOLBAR SINGLE	1
3	188082	NUT, .625 NC, CENTERLOCK, PLTD	1
4	152416	BOLT, .625 X 4.5 NC, G5 PL	1
5	4440887	COMPOSITE BUSHING, 2.75" L X 2" ID	2
6	2001113	HUB, COMPLETE, 8 BOLT, 758	1
7	158358	WHEEL NUT, .625-18 FLANGED, GR 5, ZINC	8

WITH HUB  
 4411000 (LH AS SHOWN)  
 4411001 (RH)

4410998 IN LH CONFIG (SHOWN)  
 4410999 IN RH CONFIG



DRAWN BY	--	6/19/2025
CHECKED BY		
PRINT DATE		2/20/2026
CONFIG.	Default	



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COMMENTS:

DWG: SINGLE LIFT ASSY, BOLT IN SPINDLE

SIZE <b>A</b>	SHEET TITLE: Sheet1	REV <b>A</b>
SCALE: 1:8	SHEET 1 OF 1	

**FOR PARTS, CALL 1.800.342.7498**

YETTER FARM EQUIPMENT



10000 SERIES MAGNUM™  
FERTILIZER COULTER

2565-957\_Rev\_F 6/2021



YETTER MANUFACTURING CO.

Founded 1930

Colchester, IL 62326-0358 Toll free: 800-447-5777

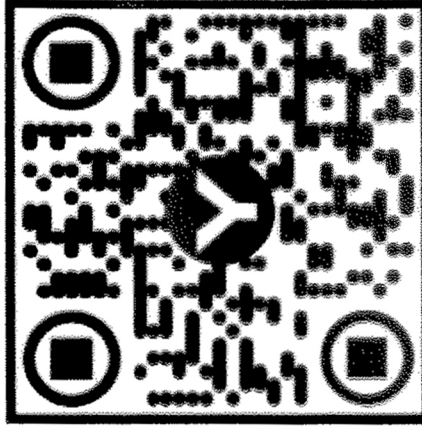
Fax: 309-776-3222 Website: [www.yetterco.com](http://www.yetterco.com)

Email: [info@yetterco.com](mailto:info@yetterco.com)

# MAGNUM SETTINGS & REPAIRS

<b>BLADE</b>	WHEN NEW: 22.6" REPLACE AT: ~21.5
<b>BEAVER TAILS</b>	REPLACE: WHEN FRONT EDGE WORN 1/4" FROM NEW; <b>SCAN QR CODE FOR EXAMPLES</b>
<b>KNIFE</b>	REPLACE: AFTER THREE BEAVER TAILS BUT MUST BE WORN WHERE SHOWN IN PHOTO; <b>SCAN QR CODE FOR EXAMPLES</b>
<b>FERTILIZER TUBES</b>	REPLACE: IF TUBE IS WORN COMPLETELY THROUGH AND/OR TUBE IS WORN AT KNIFE OPENING; <b>SCAN QR CODE FOR EXAMPLES</b>
<b>MAIN BEARING</b>	<p>-TIGHTEN WHEN HUB HAS END PLAY. REPLACE WHEN BEARING CAN NO LONGER BE TIGHTENED.          -GREASE EVERY 20 HOURS, OR ENOUGH TO KEEP THE CAVITY FULL (HARSH CONDITIONS MAY REQUIRE MORE FREQUENT GREASE INTERVALS).          -NOTE- UNITS MANUFACTURED AFTER 6/2023 HAVE THE SEAL ORIENTATION FLIPPED, AND GREASE CAN BE "PURGED" OUT OF THE CAVITY. PRIOR TO 6/2023 PRODUCTION WILL BLOW THE SEAL OUT IF GREASE IS PURGED.</p>

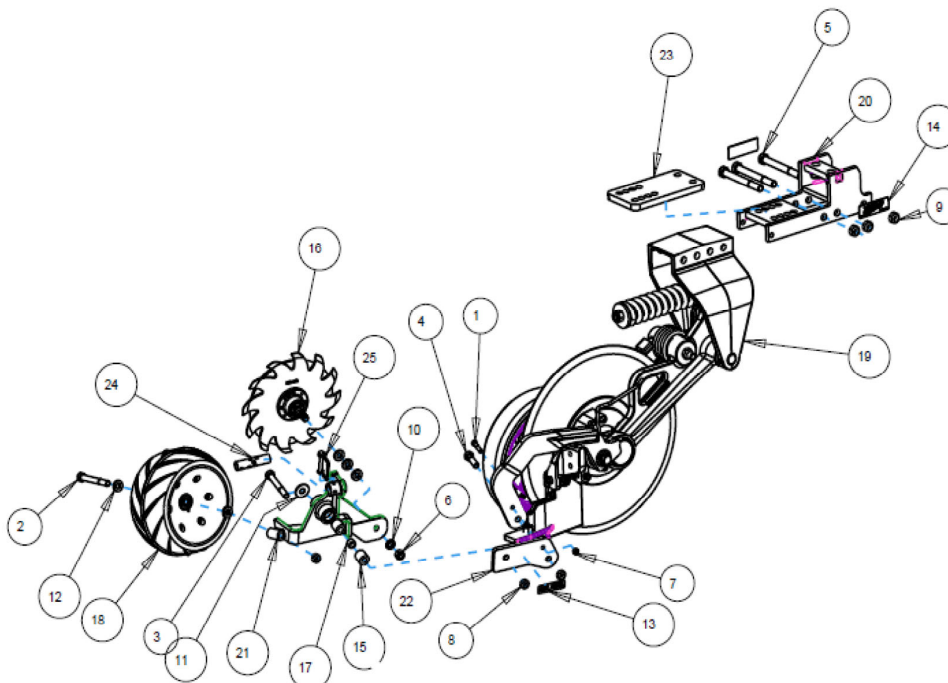
**MORE DETAILS HERE:**



# 10000 SERIES MAGNUM FERTILIZER COULTER

## PART IDENTIFICATION

10000-001-LH (SHOWN) & 10000-001-RH  
MAGNUM w/ WALKING TANDEM  
4,5,6, AND 7 WIDE TOOLBARS



NOTE A: LH PARTS ARE DENOTED  
BY AN "L" OR "LH"  
SUFFIX ON PART NUMBER  
RH PIECES HAVE THE SAME  
NUMBER WITH "R" OR "RH" AS A  
SUFFIX

ITEM	PART NO.	DESCRIPTION	QTY
1	2502-245	3/8-16 X 1-3/4 HHCS GR 5 ZP	1
2	2502-327	5/8-11 X 5 HHCS GR.5 ZP	1
3	2502-334	5/8-11 X 4-1/2 HHCS GR5 ZP	1
4	2502-391	5/8-11 X 2 HHCS GR 5 ZP	1
5	2502-509	3/4-10 X 7 HHCS GR.5 ZP	3
6	2520-452	5/8-11 HEX NUT GR 8 ZP	1
7	2520-601	3/8-16 HEX TOP LOCK, GR. C, ZP	1
8	2520-603	5/8-11 HEX TOP LOCK	3
9	2520-604	3/4-10 HEX TOP LOCK	3
10	2525-451	5/8 MED. LOCKWASHER ZP.	1
11	2526-451	5/8 STD FLATWASHER ZP	1
12	2526-455	WASH 21/32" X 1 1/4" X 1/4	5
13	2565-071	PATENT PENDING DECAL	1
14	2565-182	YETTER DECAL	2
15	2984-397	SEALER INNER PIVOT BUSHING	2
16	2987-142-L	LH CAST CLOSER ASS'Y W/ST	1
17	6000-335	9/16" BUSHING	1
18	6200-363	6.5 X 12 PRESS	1
19	10000-100-LH	MAGNUM L.H. BASE ASSY	1
20	10000-200	BAR MOUNT 4.5,6,7 WIDE	1
21	10000-205-LH	TANDEM LH CLOSER W.A.	1
22	10000-308	TANDEM MOUNT PLATE	1
23	10000-310	CLAMP PLATE UNIVERSAL	1
24	10000-330	STANDARD ADJUSTMENT TUBE	1
25	10000-334	3/8" WIRE PIN	1

The American Society of Agricultural Engineers has established minimum marking recommendations for agricultural field equipment that is towed on or across public highways. These standards include:

1. Implements which obscure the rear tractor lighting; or are more than 13 ft. wide; or extend to the left or right of the tractor center by 79 in. and beyond the left or right extremity of the tractor; or extend more than 33 ft. to the rear of the tractor hitchpoint should have the following lighting to meet minimum safety standards:
  - a. One red tail lamp mounted to the rear of the implement and as far to the left as possible. This must face rearward only.
  - b. Two amber flashing lights, visible from front and rear, and as far to the left and right as possible. These should be mounted to within 16 in. of extremities and within 39 in. to 10 ft. in height.
  - c. Non-symmetrical equipment, such as moldboard plows or windrowers, extending only to the left or right may have one amber flashing light mounted to within 16 in. of the extremity.
2. Implements extending more than 4 ft. to the left of the center of the tractor should have at least one amber reflector visible to the front, located to the extreme left of the implement.
3. Implements exceeding more than 10 ft. behind the hitchpoint should have at least two amber reflectors visible from both the left and right sides. Reflectors should be spaced no more than 5 ft. apart, starting from the hitch. The rear most reflector should be positioned as far to the rear as possible.
4. Implements extending more than 4 ft. to the rear of the hitchpoint or more than 4 ft. to the left or right of the center of the tractor should have at least two red reflectors visible to the rear.

## LOCATION

Dual and single lamp units can be mounted in a variety of locations and positions using the following guidelines:



1. Amber must always be mounted either the top or outer-most left or right position. It should be able to be seen from both the front or rear of the implement at all times.
2. Single lamps may be used in place of a dual lamp, if mounting is a problem.
3. If the amber lamp cannot be seen from both front and rear of the implement at the same time, a second lamp is necessary and should be positioned as far forward as possible.
4. Red is to face rearward only.

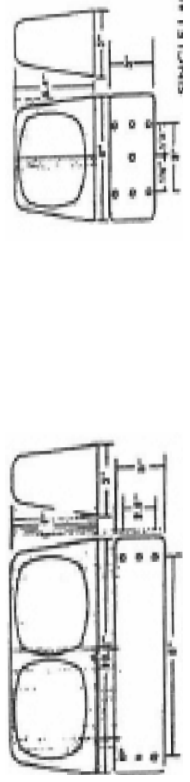
Note: All lamps can be mounted horizontally, vertically, upright or inverted. However, care should be taken to adequately protect the base from excess water buildup when inverting.

## MOUNTING

All units have provisions for multiple mounting. The outermost holes will accept 1/4" machine or lag screws and will allow thru-panel bolting. The inner holes are designed to accept 1/4" lag or self-drilling screws only. Maximum length not to exceed 1" beyond panel. A 9/32" dia. hole size is recommended.

If holes are required to route wires and connectors from lamp units, a 3/4" dia. hole is recommended.

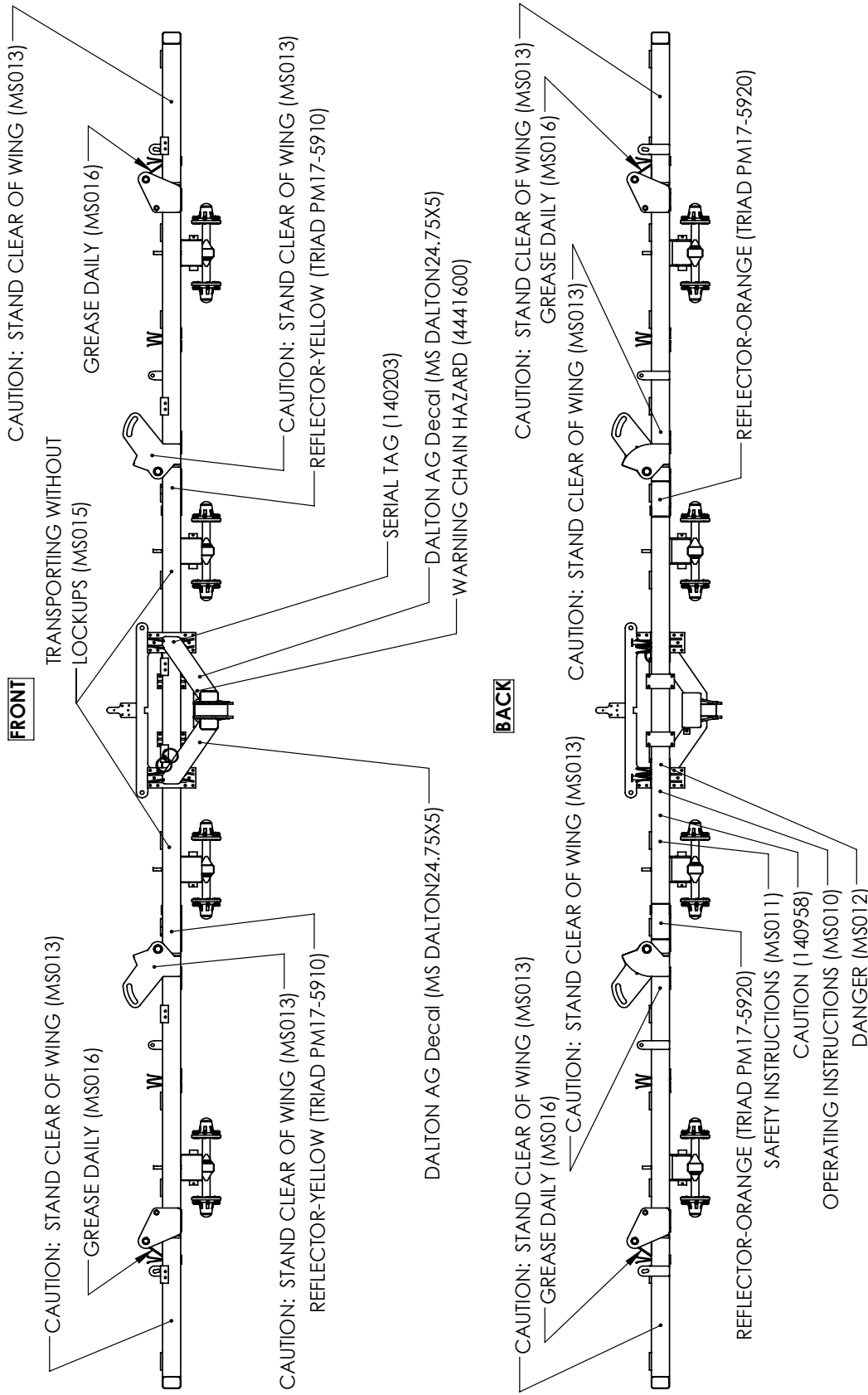
The diagram below should be used as a guide for mounting hole




# DECAL LAYOUT

ASSEMBLY

TOOLBAR - DECAL LAYOUT



DRAWN BY	RICH SMOTHERS	6/20/2016	 <p>602 E. VAN BUREN ST., LENOX, IA 50851</p>	DWG:	TOOLBAR - DECAL LAYOUT	
CHECKED BY				SIZE SHEET TITLE:	Sheet1	REV
PRINT DATE	6/3/2021			<b>A</b>		
CONFIG.	Default			SCALE: 1:48		SHEET 1 OF 1
COMMENTS:	<p>C:\_epdm_vault\tool_bar\fb documents\fb manuals\</p>					
<p><b>PROPRIETARY AND CONFIDENTIAL</b></p> <p>THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF DALTON AG. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF DALTON AG IS PROHIBITED.</p>						
5	4	3	2	1		

## PARTS ORDERING PROCEDURE

Your Dalton Ag dealer is interested in your new fertilizer application equipment and has the desire to help you get the most value from it. Through the help of this manual, you will find you can do some of the regular maintenance yourself. For parts and service, contact the Dalton Ag Dealership from which you purchased your fertilizer application equipment or your local Dalton Ag dealer.

When replacement parts are required, consult the applicable illustration and parts list to obtain the correct part name and number. When requesting a replacement part, always include the following information:

1. Complete Part Number
2. Description
3. Quantity Required
4. Machine and Model Number
5. Machine Serial Number - located on the topside of the frame near hitch
6. Provide complete name and address for where and how parts are to be shipped.

NOTE: Right and left hand parts and sides of the units are determined by standing at the rear and facing in the direction of forward travel.

**EQUIPMENT MODEL:** \_\_\_\_\_

**EQUIPMENT SERIAL NO.:** \_\_\_\_\_

**DATE OF PURCHASE:** \_\_\_\_\_

**NAME OF DEALER:** \_\_\_\_\_

**DEALER'S PHONE NUMBER:** \_\_\_\_\_

# Thank you for your business!

# NOTES

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# NOTES

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[www.daltonag.com](http://www.daltonag.com)

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