# TABLE OF CONTENTS

TO YOU THE OWNER................................................................................................................................. 1
LIMITED WARRANTY STATEMENT............................................................................................................... 2
NEW MACHINE CHECKOUT......................................................................................................................... 3
IMPLEMENT SAFETY..................................................................................................................................... 4
PRE-SEASON CHECK.................................................................................................................................... 5
BOLT TORQUE CHART.................................................................................................................................... 6
ANHYDROUS AMMONIA SAFETY.................................................................................................................. 7
FIRST AID..................................................................................................................................................... 11
OPERATING AND INSTALLATION INSTRUCTIONS FOR THE A-HFC-114...................................................... 13
PURGING INSTRUCTIONS FOR REPHASING CYLINDERS........................................................................... 18
4X6 TOOLBAR LAYOUTS.................................................................................................................................. 19
6X6 TOOLBAR LAYOUTS.................................................................................................................................. 21
CYLINDERS................................................................................................................................................... 24
HEAVY DUTY LIFT HYDRAULICS.................................................................................................................... 25
BULL PULL TONGUE AND HOSE STAND ASSEMBLY.................................................................................. 26
SINGLE FOLD TOOLBAR-CYLINDERS AND PINS.............................................................................................. 27
DOUBLE FOLD TOOLBAR-CYLINDERS AND PINS............................................................................................ 28
FRONT FOLD TOOLBAR-CYLINDERS AND PINS............................................................................................ 29
WING LOCK OPTIONS................................................................................................................................... 30
TOOLBAR CYLINDER STOP............................................................................................................................ 31
TOOLBAR LIGHT KIT...................................................................................................................................... 32
REAR HITCH, HD........................................................................................................................................... 33
QUICK COUPLER SWIVEL MOUNT.................................................................................................................. 34
WALKING AXLE ASSEMBLY.............................................................................................................................. 35
HD WALKING AXLE ASSEMBLY......................................................................................................................... 36
SINGLE OUTBOARD GAUGE WHEEL ASSEMBLY............................................................................................. 37
PIN TYPE GAUGE WHEEL AND BRACKET....................................................................................................... 38
4410086, 888 6-BOLT HUB ASSEMBLY.......................................................................................................... 39
4410089, 813 8-BOLT HUB ASSEMBLY........................................................................................................... 40
4410171 INDEPENDENT STYLE DISC SEALER............................................................................................... 41
4410171 OS INDEPENDENT STYLE DISC SEALER WITH OFFSET ARMS.......................................................... 42
4410223 HEAVY DUTY DISC SEALER............................................................................................................. 43
4410223 OS HEAVY DUTY DISC SEALER WITH OFFSET ARMS...................................................................... 44
4410185 INDEPENDENT STYLE DISC SEALER WITH 14.5 INCH ARMS....................................................... 45
HD DISC SEALER WITH 14.5 INCH ARM......................................................................................................... 46
STANDARD SHANKS AND KNIVES................................................................................................................. 47
S1264SL SPRING LOADED SHANK CLAMP, 4 X 6......................................................................................... 48
S1266SL SPRING LOADED SHANK CLAMP, 6 X 6......................................................................................... 49
YETTER 20” COULTER ASSEMBLY.................................................................................................................. 50
GROVE COULTER ASSEMBLY.......................................................................................................................... 51
YETTER 24” EXTREME COULTER ASSEMBLY.................................................................................................. 52
YETTER 24” EXTREME HUB BREAKDOWN....................................................................................................... 53
INSTALLATION INSTRUCTIONS FOR AG LIGHTS........................................................................................... 54
DECAL LAYOUT.............................................................................................................................................. 55
PARTS ORDERING PROCEDURE...................................................................................................................... 56
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
- Fax your completed warranty registration form to: 641-333-4429
- Email your completed warranty registration form to: office@daltonag.com
- Mail your completed warranty registration form to: Dalton Ag, Inc. P.O. Box 70 Lenox, IA 50851
LIMITED WARRANTY STATEMENT
DALTON AG, INC. 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. 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
- Hoses
- Disks
- Idlers
- Filters
- Tires
- Chains
- Blades
- Belts
- Disks
- Chains
- 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.
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

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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 (NH3) 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.
  
  - The hydrostatic relief valve should be replaced every five years.
  - 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.
  - 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.
  - 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.
  - *Inhalation Hazard* must appear on both sides of the tank in letters 3 in. high.
  - 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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Use the following format to cite this article:


Sources


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)]

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.

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
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 ANYDROUS AMMONIA AND CAUSE SERIOUS BODILY INJURY.

TABLE OF CONTENTS

New installation instruction  page 3-5
Retro fit installation instructions  page 5-7
Reconnection instructions  page 7-9
Disconnection instructions  page 9
Maintenance instructions  page 9-10

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.

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

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


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.

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 FIRMLY. 
MAKE SURE YOU PUT THE BUSHING ON THE COUPLER BRACKET NOT THE MIDDLE 
BRACKET AS SHOWN IN THE PHOTO.
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 IMPED 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.

![Reconnection Instructions](image)

**NOT INSTALLED CORRECTLY**

**INSTALLED CORRECTLY**

![Image of correct installation](image)

LOCKING SHOULDER NOT INSERTED

LOCKING SHOULDER INSERTED

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 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 DRIED 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 NECESARY 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
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.
6 X 6 TOOLBAR LAYOUTS

4400171 DW7245 19K

4400172 DW7252 20K

4400173 DW7252 21K

4400174 DW7255 22K

4400175 DW7255 23K

CHECKED BY

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DRAWN BY RICH SMOTHERS 6/25/2015
CHECKED BY
PRINT DATE 4/26/2017
CONFIG Default

COMMENTS:

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2X6 TOOLBARS - LAYOUT AND ROW UNIT PLACEMENT
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**CYLINDERS**

- **Class 1**
- **Class 2**
- **Class 3**
141078 CYLINDER PIN W 2 COTTER PINS

HYDRAULIC CYLINDER, 3 X 12 X 1.25

4420594 PIN, .375 X 7.5, HEADED

141078 CYLINDER PIN W 2 COTTER PINS

4420893 PIN, 2 X 8.6875, HEADED

FRONT FOLD TOOLBAR
TB 4435227 BOLT PLATE, WING LOCK HOOK

TB 4420425 WING LOCK HOOK, WELDMNT

TB 4420863 WING LOCK HOOK, 6x6

TB 4435458 BOLT PLATE, WING LOCK HOOK, 6x6

TB 4420944 TB WING LOCK, 6x6, OFFSET BASE

TB 4420943 TB WING LOCK, 4x6, OFFSET BASE

4420945 WING LATCH

4420944 TB WING LOCK, 6x6, OFFSET BASE
**NOTE:**
ASSEMBLY CONTAINS A RIGHT AND LEFT CONFIGURATION PER TOOLBAR. RIGHT CONFIGURATION SHOWN.

4410426 LIGHT BRACKET ASSEMBLY

### Parts List

- **44107 LED AG LIGHT KIT, RIGHT**
- **4420988 LIGHT BRACKET**
- **4420987 LIGHT BRACKET, TOOLBAR, BOLT ON**
- **151603 .3125X1 NC PLTD BOLT**
- **150226 LOCK WASHER, .75, PLTD**
- **150013 NUT, .75 NC**
- **150210 LOCK WASHER, .375**
- **150005 NUT, .375 NC**
- **150005 NUT, .375 NC, PLTD**
- **150212 FLAT WASHER, .375 PLTD**
- **140235 U-BOLT, 6 x 5.5625 x .75NC (4X6 TOOLBARS)**
- **(OR) 6000-035 U-BOLT, 6 x 8 x .75NC (6X6 TOOLBARS)**
- **9413447 LOCK NUT, .3125**
- **4441019 U-BOLT, 1.3125 X 2.5 X 1**
- **4441107 LED AG LIGHT KIT, RIGHT**
- **140235 U-BOLT, 6 x 5.5625 x .75NC (4X6 TOOLBARS)**
- **(OR) 6000-035 U-BOLT, 6 x 8 x .75NC (6X6 TOOLBARS)**
- **150226 LOCK WASHER, .75, PLTD**
- **150013 NUT, .75 NC**
- **150005 NUT, .375 NC**
- **150005 NUT, .375 NC, PLTD**
- **150212 FLAT WASHER, .375 PLTD**
WALKING AXLE ASSEMBLY

4450046 WALKER PIVOT REBUILD KIT
- INCLUDES (2) BEARINGS, (2) RACES, (2) SEALS

4410445 LIFT WHEEL WALKER ARM, COMPOSITE

TB 4420561 LIFT WHEEL WALKER ARM

4440887 COMPOSITE BUSHING

4420651 LIFT WHEEL WALKER ARM

4440810 SEAL

TB 4430569 BUSHING, WHEEL LIFT CYLINDER PIN

158014 ROLL PIN, .375 X 2.5

4420213 PIN, 1 X 5.25, HEADED

TB 4435069 BUSHING, WHEEL LIFT CYLINDER PIN

TB 4420253 PIVOT SHAFT, WALKER

TB 443065-1 SPACER, 2 INCH

TB 443065-1 SPACER, 2 INCH

151222 GREASE ZERK, .25 SELF TAPPING

4440810 SEAL

4440732 BEARING

4440733 RACE

TB 442052 WALKER AXLE WELDMENT, 6 BOLT LIGHT

4440733 RACE

4440732 BEARING

4440810 SEAL

4410086 888 6-BOLT HUB ASSEMBLY, COMPLETE

TB 4410231-10 CYLINDER LOCKUP
WITH 640028 SAFETY PIN

TB 4410448 WALKER AXLE WITH HUB

4435071 PIN, 2 X 11.625, HEADLESS

USE WITH PART NOS:
151816 BOLT, 3/8" NC X 3", G8
150022 LOCKNUT, 3/8" NC

4410086 888 6-BOLT HUB ASSEMBLY, COMPLETE

TB 4410231-10 CYLINDER LOCKUP
WITH 640028 SAFETY PIN
SINGLE OUTBOARD GAUGE WHEEL ASSEMBLY

SPINDLE REPLACEMENT:
641793-18 SPINDLE, 18 INCH

4410089, 813 8-BOLT HUB ASSEMBLY, COMPLETE
4410446 SINGLE LIFT-GAUGE WHEEL, COMPOSITE (L)
4410447 SINGLE LIFT-GAUGE WHEEL, COMPOSITE (R)

4410254-LH SINGLE LIFT-GAUGE WHEEL, LEFT
4410254-RH SINGLE LIFT-GAUGE WHEEL, RIGHT

4420213 PIN, 1 X 6, .375 PIN HOLE, TB LW, CYL PIN
TB 4435069 BUSHING, WHEEL LIFT CYLINDER PIN
158014 ROLL PIN, .375 X 2.5

4435071 PIN, 2 X 11.625, HEADLESS
USE WITH PART NOS:
4440864 HARDENED PIN, 9/16"
158049 COTTER PIN, 1/4" X 1-1/4"

4440887 COMPOSITE BUSHING

4410089, 813 8-BOLT HUB ASSEMBLY, COMPLETE

4410254-LH SINGLE LIFT-GAUGE WHEEL, LEFT
4410254-RH SINGLE LIFT-GAUGE WHEEL, RIGHT

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DRAWN BY RICH SMOTHERS 7/17/2015
CHECKED BY
PRINT DATE 6/11/2018
CONFIG Default

COMMENT: RIGHT LIFT-GAUGE WHEEL ASSEMBLY SHOWN

DWG: SINGLE LIFT-GAUGE WHEEL ASSEMBLY
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SCALE: 1:8 SHEET 1 OF 1
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<td>DS 4420271 SHANK MOUNTING BRACKET</td>
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<td>DS 4410256 PIVOT ARM W BUSHING, LH</td>
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<td>4440857 BUSHING, COMPOSITE</td>
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<td>25</td>
<td>4440788 U-BOLT, 2 x 2.5 x .5 NC, SQUARE HEAD</td>
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**ALL QUANTITIES ARE PER ROW UNIT**

4450048 - STANDARD DISC SEALER REBUILD KIT
- INCLUDES (2) BEARINGS, (2) RACES, AND (1) SEAL

**4410171 INDEPENDENT STYLE**

INDEPENDENT STYLE
OS INDEPENDENT STYLE WITH OFFSET ARMS

** ALL QUANTITIES ARE PER ROW UNIT **

** TO REVERSE OFFSET **

USE 4410304 PIVOT ARM, LONG, LH AND 4410255 PIVOT ARM w BUSHING, RH

4450048 - STANDARD DISC SEALER REBUILD KIT
-INCLUDES (2) BEARINGS, (2) RACES, AND (1) SEAL

4410171 OS INDEPENDENT STYLE WITH OFFSET ARMS

INCLUDES ALL TOP HALF PARTS EXCEPT DISC SEALER BLADE

INCLUDES ALL LISTED PARTS
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<td>8</td>
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<td>28</td>
<td>DS 4440785 BLADE, 18 INCH NOTCHED</td>
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<td>29</td>
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<td>30</td>
<td>158002 SLOTTED NUT, .75 NC THIN</td>
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<td>31</td>
<td>158004 FLANGE BOLT, .375 NC x .75, G5</td>
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<td>36</td>
<td>4435850 RETAINER, DUST CAP</td>
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** TO REVERSE OFFSET, **
SWITCH 4420581 HD PIVOT ARM, LONG (15) AND 4420303 HD PIVOT ARM (4) TO OPPOSITE SIDES

ALL QUANTITIES ARE PER ROW UNIT
4450049 - HD DISC SEALER REBUILD KIT
- INCLUDES (2) BEARINGS, (2) RACES, AND (1) SEAL

DRAWN BY: RICH SMOTHERS
PRINT DATE: 2/27/2017
CHECKED BY: RICH SMOTHERS
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Dalton USA
462 E. VAN BUREN ST., LENOX, IA 50851
ASSEMBLY
REV: A
SIZE: SHEET TITLE: A
SCALE: 1:8 SHEET 1 OF 1
### INDEPENDENT STYLE W 14.5 INCH ARM

#### PART NUMBER

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<td>DS 4420287 UPPER MOUNTING BRACKET, LONG ARM FLOPPY, WELDMENT</td>
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<td>DS 4420288 PIVOT ARM, 14.5 INCH</td>
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<td>15806 FLANGE BOLT, 5 NC x 1.75, GS</td>
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<td>DS 440272 HUB BRACKET, STD, WELDMENT</td>
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<td>19</td>
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<td>23</td>
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**ALL QUANTITIES ARE PER ROW UNIT**

4450048 - STANDARD DISC SEALER REBUILD KIT

- INCLUDES (2) BEARINGS, (2) RACES, AND (1) SEAL

4410185 INDEPENDENT STYLE W 14.5 INCH ARM

INCLUDES ALL ITEMS

---

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<tr>
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<td>4440895</td>
<td>SHANK, 1.25 x 2</td>
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<td>4440779</td>
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<td>4440781</td>
<td>KNIFE, MOLE W (1) .375 TUBE</td>
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<td>4440795</td>
<td>KNIFE, STANDARD W (1) .375 TUBE, (1) .75 TUBE</td>
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<td>4440794</td>
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<td>4440890</td>
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<td>KNIFE, MINI MOLE W (1) .375 TUBE, (1) .75 TUBE</td>
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**FOR PARTS, CALL 1.800.342.7498**
## S1264SL, SPRING LOADED SHANK CLAMP, 4X6

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<th>PART NUMBER</th>
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<tr>
<td>2</td>
<td>4410218 S1264SL W/O TOP BRACKET AND BOLTS</td>
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<td>SLSC 4420281 SHANK PIVOT</td>
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<td>4</td>
<td>SLSC 4420280 SPRING GUIDE CAP</td>
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<td>SLSC 4420282 SPRING BOLT WELDMENT</td>
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<td>6</td>
<td>SLSC 4431072 TOP BRACKET</td>
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<td>SLSC 641480 SPRING</td>
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<td>150013 NUT, .75 NC</td>
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<td>152422 BOLT, .625 NC x 8, G5</td>
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<td>150226 LOCK WASHER, .75, PLTD</td>
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<td>18</td>
<td>4441060 BOLT, .75 NC x 3, GR 8</td>
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4440975 .75 NC X 1.5 SET SCREW

SHANK NOT INCLUDED

---

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**DRAWN BY:** RICH SMOTHERS  
**CHECKED BY:**  
**PRINT DATE:** 12/14/2017  
**COMMENTS:**

**DWG:** S1264SL-SPRING LOADED SHANK CLAMP  
**SIZE:** A  
**SHEET TITLE:** COMPLETE UNIT EXPLODED  
**REV:** A  
**SCALE:** 1:6  
**SHEET 1 OF 1**
S1266SL, SPRING LOADED SHANK CLAMP, 6X6

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4440975 .75 NC X 1.5 SET SCREW

SLIDE SHANK INTO RECEIVER. ATTACH WITH 3/4" NC THRU BOLT

SHANK NOT INCLUDED
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<td>2531-102</td>
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05/12/2016  S431
YETTER 24" EXTREME COULTER ASSEMBLY

2995-149

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<td>SPRING BUSHING CASTING</td>
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YETTER 24” EXTREME HUB BREAKDOWN

2995-138

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<td>2995-412</td>
<td>HUB CAP, 633 HUB</td>
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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.

Installation Instructions for Ag Lights

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
CAUTION: STAND CLEAR OF WING (MS013)

REFLECTOR (YELLOW)

SERIAL TAG (140203)

DALTON AG Decal

REFLECTOR (ORANGE)

SAFETY INSTRUCTIONS (MS011)

OPERATING INSTRUCTIONS (MS010)

DANGER (MS012)

FRONT

BACK

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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!

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602 E. Van Buren    Lenox, Iowa 50851