



## OPERATING AND PARTS MANUAL

### *STEALTH LIQUID APPLICATORS*

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, 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](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         | - Unauthorized repairs       | - Usage contrary to the |
| - Natural calamities         | - Use of Non DALTON AG parts | intended purpose of the |
| - Unauthorized modifications | - Neglected maintenance      | product                 |

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

- |              |         |          |          |            |
|--------------|---------|----------|----------|------------|
| - Lubricants | - Hoses | - Disks  | - Idlers | - Belts    |
| - Filters    | - Tires | - Chains | - Blades | - 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 applicator, 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 applicator unit 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 applicator is painted or the decals are otherwise rendered unreadable.
- Install transport link before transporting.
- Always check for overhead obstacles in transporting applicator and before folding or unfolding the wings of the unit.
- Never permit riders on the applicator 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, applicator unit, and the safety related items.
- Do not stand on, or straddle tongue when unhitching.
- Do not modify or permit anyone to modify this applicator and any of its components without first consulting your Dalton Ag dealer.
- Do not lubricate, adjust, or repair when applicator unit 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<br>DRY                                                            | LUBRICATED | ASSEMBLY TORQUE<br>DRY                                                            | LUBRICATED | ASSEMBLY TORQUE<br>DRY                                                             | LUBRICATED | ASSEMBLY TORQUE<br>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.

**LOADED RADIUS OF VARIOUS TIRES -  
FOR USE IN SETTING JOHN BLUE  
GROUND-DRIVEN PUMPS**

| <b>TIRE SIZE</b> | <b>LOADED<br/>RADIUS</b> | <b>TIRE SIZE</b> | <b>LOADED<br/>RADIUS</b> |
|------------------|--------------------------|------------------|--------------------------|
| 6.70-15SL        | 12.9                     | 9.00-20          | 19.0                     |
| 7.60-15SL        | 13.4                     | 10.0-20          | 19.6                     |
| 9.5L-15SL        | 13.6                     | 11.0-20          | 20.1                     |
| 10.0-15SL        | 15.1                     | 12.0-20          | 20.6                     |
| 11L-15SL         | 13.5                     | 15.0-22.5        | 20.0                     |
| 12.5L-15SL       | 14.5                     |                  |                          |
| 9.00-16SL        | 14.7                     |                  |                          |
| 11L-16SL         | 13.9                     |                  |                          |
| 12.5L-16SL       | 15.0                     |                  |                          |
| 13.5L-16.1SL     | 17.5                     |                  |                          |
| 16.5L-16.1SL     | 17.3                     |                  |                          |
| 4.8-8            | 7.5                      |                  |                          |
| 18-9.5           | 7.8                      |                  |                          |
| 16 X 6.50-8      | 7.4                      |                  |                          |



## LIQUID INJECTOR NOZZLE CHART

### NOZZLE SELECTION

1. To select the proper nozzle size, first determine the gallons per acre and speed that is going to be used. Go to the table for the proper row spacing.
2. Find the speed across the top, go down to the "Gallon Per Acre" and read the nozzle size in the box.
3. Order nozzle by m.p.h. and gallons per acre.

### FORMULA TO CONVERT POUNDS PER ACRE TO GALLONS PER ACRE

Pounds per Acre/Percent of Nitrogen = Total Pounds per Acre/pounds per Gallon = Gallons per Acre

EXAMPLE: 100 (# per Acre) / .28 (28%) = 357 (# per Acre) / 10.65 (#per Gallon) = 33.5 (GPA)

NOTE: If 1/2 rate is needed on outside shanks, order two nozzles with half the capacity. If 1 1/2 rate is needed on outside shanks, order two nozzles with 1 1/2 times the capacity.

**\*\*\*REFER TO THE FOLLOWING RATE CHART FOR TIPS AND APPLICATION\*\*\***

**GPA 30" SPACING**  
gallons per acre x 1.15 = water per acre

| <u>TIP NUMBER</u> | <u>ORIFICE<br/>DIAM.</u> | <u>PSI</u> | <u>CAP .1<br/>NOZZLE<br/>GPM</u> | <u>5 MPH<br/>GPA</u> | <u>6 MPH<br/>GPA</u> | <u>7 MPH<br/>GPA</u> | <u>8 MPH<br/>GPA</u> | <u>9 MPH<br/>GPA</u> | <u>10 MPH<br/>GPA</u> |
|-------------------|--------------------------|------------|----------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-----------------------|
| TP0004            | .055                     | 20         | .28                              | 11                   | 9                    | 8                    | 7                    |                      | 6                     |
| H1/4U-SS0004      |                          | 30         | .35                              | 14                   | 12                   | 10                   | 9                    | 8                    | 7                     |
|                   |                          | 40         | .40                              | 16                   | 13                   | 11                   | 10                   | 9                    | 8                     |
|                   |                          | 50         | .45                              | 18                   | 15                   | 13                   | 11                   | 10                   | 9                     |
|                   |                          | 60         | .49                              | 19                   | 16                   | 14                   | 12                   | 11                   | 10                    |
|                   |                          |            |                                  |                      |                      |                      |                      |                      |                       |
| TP0005            | .061                     | 20         | .35                              | 14                   | 12                   | 10                   | 9                    |                      |                       |
| H1/4U-SS0005      |                          | 30         | .43                              | 17                   | 14                   | 12                   | 11                   | 9                    | 8                     |
|                   |                          | 40         | .50                              | 20                   | 16                   | 14                   | 12                   | 11                   | 10                    |
|                   |                          | 50         | .56                              | 22                   | 18                   | 16                   | 14                   | 12                   | 11                    |
|                   |                          | 60         | .61                              | 24                   | 20                   | 17                   | 15                   | 13                   | 12                    |
|                   |                          |            |                                  |                      |                      |                      |                      |                      |                       |
| TP0006            | .067                     | 20         | .42                              | 17                   | 14                   | 12                   | 10                   | 9                    | 8                     |
| H1/4U-SS0006      |                          | 30         | .52                              | 20                   | 17                   | 15                   | 13                   | 11                   | 10                    |
|                   |                          | 40         | .60                              | 24                   | 20                   | 17                   | 15                   | 13                   | 12                    |
|                   |                          | 50         | .67                              | 26                   | 22                   | 18                   | 17                   | 15                   | 13                    |
|                   |                          | 60         | .73                              | 28                   | 24                   | 20                   | 18                   | 16                   | 15                    |
|                   |                          |            |                                  |                      |                      |                      |                      |                      |                       |
| TP0008            | .078                     | 20         | .57                              | 23                   | 19                   | 16                   | 14                   | 13                   | 11                    |
| H1/SS0008         |                          | 30         | .69                              | 27                   | 22                   | 19                   | 17                   | 15                   | 13                    |
|                   |                          | 40         | .80                              | 32                   | 26                   | 22                   | 20                   | 17                   | 16                    |
|                   |                          | 50         | .89                              | 53                   | 29                   | 25                   | 22                   | 19                   | 17                    |
|                   |                          | 60         | .98                              |                      | 32                   | 28                   | 24                   | 21                   | 19                    |
|                   |                          |            |                                  |                      |                      |                      |                      |                      |                       |
| TP00010           | .086                     | 20         | .71                              | 28                   | 23                   | 20                   | 18                   | 16                   | 14                    |
| H1/4U-SS0010      |                          | 30         | .87                              | 34                   | 28                   | 24                   | 21                   | 19                   | 17                    |
|                   |                          | 40         | 1.00                             | 39                   | 33                   | 28                   | 24                   | 22                   | 20                    |
|                   |                          | 50         | 1.12                             | 44                   | 36                   | 32                   | 28                   | 24                   | 22                    |
|                   |                          | 60         | 1.22                             | 48                   | 40                   | 34                   | 30                   | 26                   | 24                    |
|                   |                          |            |                                  |                      |                      |                      |                      |                      |                       |
| TP00015           | .107                     | 20         | 1.06                             | 42                   | 35                   | 30                   | 26                   | 23                   | 21                    |
| H1/4U-SS0015      |                          | 30         | 1.30                             | 51                   | 42                   | 36                   | 32                   | 28                   | 26                    |
|                   |                          | 40         | 1.50                             | 59                   | 49                   | 42                   | 37                   | 33                   | 30                    |
|                   |                          | 50         | 1.68                             | 66                   | 55                   | 47                   | 41                   | 36                   | 33                    |
|                   |                          | 60         | 1.84                             | 72                   | 60                   | 51                   | 45                   | 40                   | 36                    |
|                   |                          |            |                                  |                      |                      |                      |                      |                      |                       |
| TP00020           | .125                     | 20         | 1.41                             | 56                   | 47                   | 40                   | 35                   |                      | 28                    |
| H1/4U-SS0020      |                          | 30         | 1.73                             | 68                   | 57                   | 50                   | 43                   | 38                   | 34                    |
|                   |                          | 40         | 2.00                             | 80                   | 66                   | 56                   | 50                   | 44                   | 40                    |
|                   |                          | 50         | 2.24                             | 88                   | 74                   | 64                   | 56                   | 49                   | 44                    |
|                   |                          | 60         | 2.44                             | 96                   | 80                   | 70                   | 60                   | 53                   | 48                    |
|                   |                          |            |                                  |                      |                      |                      |                      |                      |                       |
| TP00030           | .140                     | 20         | 2.12                             | 84                   | 70                   | 60                   | 52                   |                      | 42                    |
| H1/4U-SS0030      |                          | 30         | 2.60                             | 102                  | 86                   | 74                   | 64                   | 57                   | 51                    |
|                   |                          | 40         | 3.00                             |                      | 99                   | 84                   | 74                   | 66                   | 59                    |

\*\*\*\* 15" ROW CONVERSION - X 2

\*\*\*\* 36" ROW CONVERSION - X .83

To determine the orifice plates you need, use the following equations:

**NOTE: Always insert Orifice Plate**  
with the side marked with the  
number facing the outlet.

$$\text{GPM (per nozzle)} = \frac{\text{GPA} \times \text{MPH} \times W}{5,940}$$

$$\text{GPA} = \frac{5,940 \times \text{GPM (per nozzle)}}{\text{MPH} \times W}$$

W = Nozzle spacing (in inches)  
for broadcast spraying.  
= Spray width (in inches) for  
single nozzle, band spraying  
or boomless spraying.  
= Row spacing (in inches) divided  
by the number of nozzles per row  
for directed spraying.

| FOR ORIFICE SIZE | USE MESH SIZE |
|------------------|---------------|
| 15 and smaller   | 200           |
| 16–39            | 100           |
| 40–70            | 50            |
| 72 and larger    | —             |

Tabulated flow rates are for spraying water into air at  
atmospheric pressure. If your application creates  
backpressure, or if spraying into a liquid, measure and  
calibrate to ensure proper application rates.

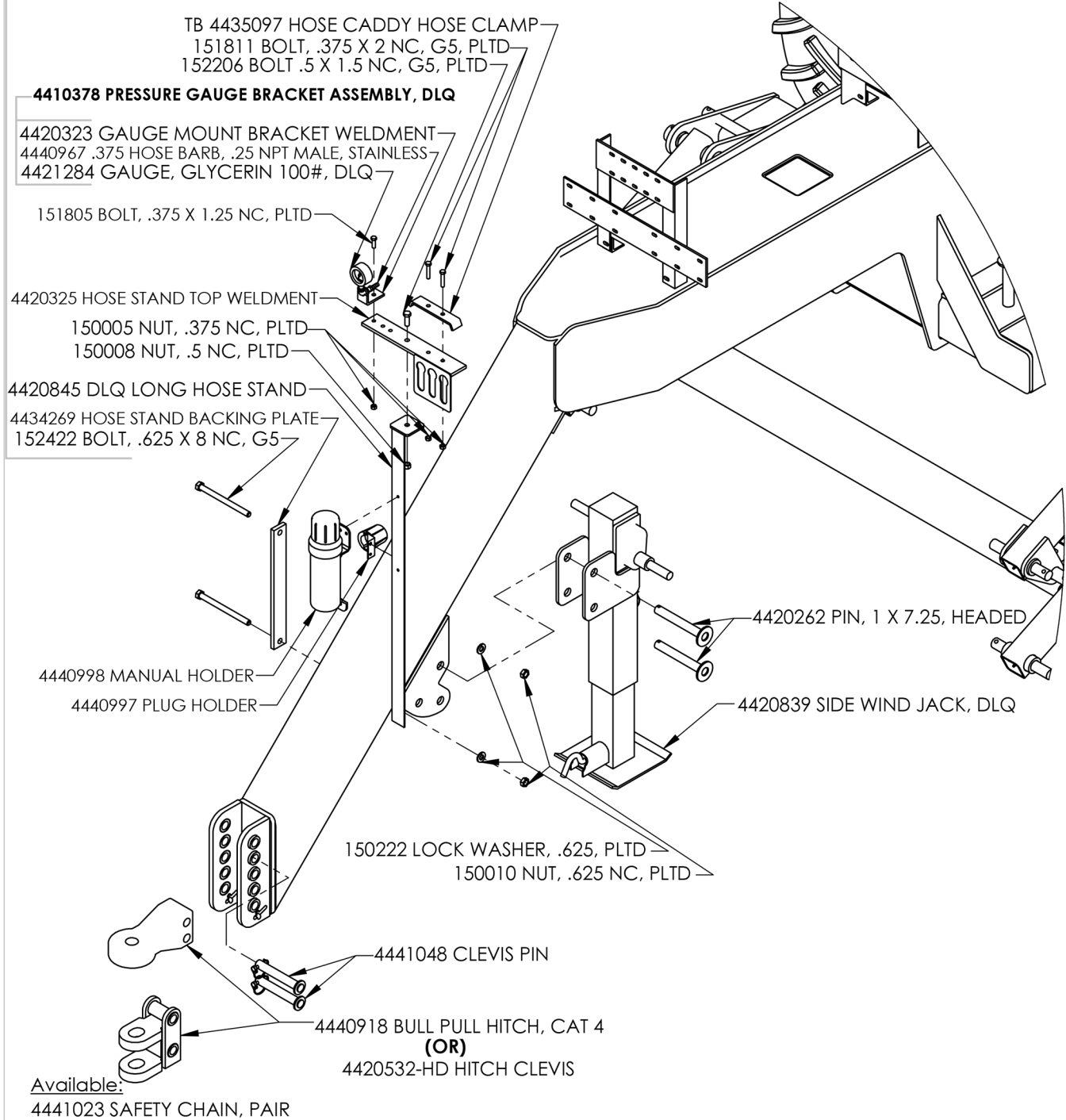
|  | GPM   |        |        |        |        |        |        |
|-----------------------------------------------------------------------------------|-------|--------|--------|--------|--------|--------|--------|
|                                                                                   | 5 PSI | 10 PSI | 20 PSI | 30 PSI | 40 PSI | 50 PSI | 60 PSI |
| CP4916-008                                                                        | 0.003 | 0.004  | 0.006  | 0.007  | 0.008  | 0.009  | 0.010  |
| CP4916-10                                                                         | 0.005 | 0.007  | 0.009  | 0.011  | 0.013  | 0.015  | 0.016  |
| CP4916-12                                                                         | 0.007 | 0.010  | 0.013  | 0.016  | 0.019  | 0.021  | 0.023  |
| CP4916-14                                                                         | 0.009 | 0.013  | 0.018  | 0.022  | 0.025  | 0.028  | 0.031  |
| CP4916-15                                                                         | 0.010 | 0.015  | 0.021  | 0.025  | 0.029  | 0.032  | 0.036  |
| CP4916-16                                                                         | 0.012 | 0.017  | 0.023  | 0.029  | 0.033  | 0.037  | 0.040  |
| CP4916-18                                                                         | 0.015 | 0.021  | 0.030  | 0.036  | 0.042  | 0.047  | 0.051  |
| CP4916-20                                                                         | 0.018 | 0.026  | 0.037  | 0.045  | 0.052  | 0.058  | 0.064  |
| CP4916-22                                                                         | 0.022 | 0.031  | 0.043  | 0.053  | 0.061  | 0.068  | 0.075  |
| CP4916-24                                                                         | 0.026 | 0.037  | 0.052  | 0.064  | 0.074  | 0.083  | 0.091  |
| CP4916-25                                                                         | 0.028 | 0.040  | 0.056  | 0.068  | 0.079  | 0.088  | 0.097  |
| CP4916-26                                                                         | 0.030 | 0.043  | 0.061  | 0.074  | 0.086  | 0.096  | 0.105  |
| CP4916-27                                                                         | 0.032 | 0.046  | 0.064  | 0.079  | 0.091  | 0.102  | 0.111  |
| CP4916-28                                                                         | 0.035 | 0.049  | 0.069  | 0.085  | 0.098  | 0.110  | 0.120  |
| CP4916-29                                                                         | 0.038 | 0.054  | 0.076  | 0.094  | 0.108  | 0.121  | 0.132  |
| CP4916-30                                                                         | 0.040 | 0.057  | 0.081  | 0.099  | 0.114  | 0.127  | 0.140  |
| CP4916-31                                                                         | 0.043 | 0.062  | 0.087  | 0.107  | 0.123  | 0.138  | 0.151  |
| CP4916-32                                                                         | 0.048 | 0.068  | 0.095  | 0.117  | 0.135  | 0.151  | 0.165  |
| CP4916-34                                                                         | 0.052 | 0.074  | 0.104  | 0.127  | 0.147  | 0.164  | 0.180  |
| CP4916-35                                                                         | 0.056 | 0.079  | 0.111  | 0.136  | 0.157  | 0.176  | 0.192  |
| CP4916-37                                                                         | 0.061 | 0.086  | 0.122  | 0.149  | 0.172  | 0.192  | 0.211  |
| CP4916-39                                                                         | 0.068 | 0.096  | 0.135  | 0.165  | 0.191  | 0.214  | 0.234  |
| CP4916-40                                                                         | 0.072 | 0.102  | 0.144  | 0.177  | 0.204  | 0.228  | 0.250  |
| CP4916-41                                                                         | 0.075 | 0.106  | 0.149  | 0.183  | 0.211  | 0.236  | 0.258  |
| CP4916-43                                                                         | 0.082 | 0.116  | 0.163  | 0.200  | 0.231  | 0.258  | 0.283  |
| CP4916-45                                                                         | 0.088 | 0.125  | 0.177  | 0.217  | 0.250  | 0.280  | 0.306  |
| CP4916-46                                                                         | 0.095 | 0.135  | 0.191  | 0.234  | 0.270  | 0.302  | 0.331  |

|  | GPM   |        |        |        |        |        |        |
|-----------------------------------------------------------------------------------|-------|--------|--------|--------|--------|--------|--------|
|                                                                                   | 5 PSI | 10 PSI | 20 PSI | 30 PSI | 40 PSI | 50 PSI | 60 PSI |
| CP4916-47                                                                         | 0.097 | 0.138  | 0.194  | 0.238  | 0.275  | 0.307  | 0.337  |
| CP4916-48                                                                         | 0.101 | 0.143  | 0.202  | 0.248  | 0.286  | 0.320  | 0.350  |
| CP4916-49                                                                         | 0.104 | 0.148  | 0.209  | 0.255  | 0.295  | 0.330  | 0.361  |
| CP4916-51                                                                         | 0.116 | 0.165  | 0.233  | 0.285  | 0.329  | 0.368  | 0.403  |
| CP4916-52                                                                         | 0.118 | 0.168  | 0.237  | 0.290  | 0.335  | 0.375  | 0.410  |
| CP4916-54                                                                         | 0.127 | 0.180  | 0.255  | 0.312  | 0.360  | 0.402  | 0.441  |
| CP4916-55                                                                         | 0.133 | 0.189  | 0.267  | 0.326  | 0.377  | 0.421  | 0.462  |
| CP4916-57                                                                         | 0.141 | 0.200  | 0.283  | 0.346  | 0.400  | 0.447  | 0.490  |
| CP4916-59                                                                         | 0.153 | 0.217  | 0.306  | 0.375  | 0.433  | 0.484  | 0.530  |
| CP4916-61                                                                         | 0.165 | 0.233  | 0.330  | 0.404  | 0.466  | 0.521  | 0.571  |
| CP4916-63                                                                         | 0.174 | 0.246  | 0.347  | 0.425  | 0.491  | 0.549  | 0.601  |
| CP4916-65                                                                         | 0.185 | 0.261  | 0.369  | 0.452  | 0.522  | 0.584  | 0.639  |
| CP4916-67                                                                         | 0.196 | 0.278  | 0.392  | 0.481  | 0.555  | 0.621  | 0.680  |
| CP4916-68                                                                         | 0.203 | 0.287  | 0.405  | 0.496  | 0.573  | 0.641  | 0.702  |
| CP4916-70                                                                         | 0.216 | 0.306  | 0.433  | 0.530  | 0.612  | 0.684  | 0.750  |
| CP4916-72                                                                         | 0.226 | 0.320  | 0.453  | 0.554  | 0.640  | 0.716  | 0.784  |
| CP4916-73                                                                         | 0.233 | 0.330  | 0.467  | 0.572  | 0.660  | 0.738  | 0.808  |
| CP4916-75                                                                         | 0.245 | 0.347  | 0.491  | 0.601  | 0.694  | 0.776  | 0.850  |
| CP4916-78                                                                         | 0.272 | 0.385  | 0.544  | 0.667  | 0.770  | 0.861  | 0.943  |
| CP4916-80                                                                         | 0.280 | 0.397  | 0.561  | 0.687  | 0.793  | 0.887  | 0.971  |
| CP4916-81                                                                         | 0.290 | 0.411  | 0.581  | 0.711  | 0.821  | 0.918  | 1.01   |
| CP4916-83                                                                         | 0.317 | 0.449  | 0.634  | 0.777  | 0.897  | 1.00   | 1.10   |
| CP4916-86                                                                         | 0.332 | 0.470  | 0.664  | 0.813  | 0.939  | 1.05   | 1.15   |
| CP4916-89                                                                         | 0.346 | 0.490  | 0.693  | 0.849  | 0.980  | 1.10   | 1.20   |
| CP4916-91                                                                         | 0.369 | 0.523  | 0.739  | 0.905  | 1.05   | 1.17   | 1.28   |
| CP4916-93                                                                         | 0.387 | 0.547  | 0.774  | 0.947  | 1.09   | 1.22   | 1.34   |
| CP4916-95                                                                         | 0.404 | 0.572  | 0.808  | 0.990  | 1.14   | 1.28   | 1.40   |

|  | GPM   |        |        |        |        |        |        |
|-------------------------------------------------------------------------------------|-------|--------|--------|--------|--------|--------|--------|
|                                                                                     | 5 PSI | 10 PSI | 20 PSI | 30 PSI | 40 PSI | 50 PSI | 60 PSI |
| CP4916-98                                                                           | 0.442 | 0.625  | 0.884  | 1.08   | 1.25   | 1.40   | 1.53   |
| CP4916-103                                                                          | 0.461 | 0.653  | 0.923  | 1.13   | 1.31   | 1.46   | 1.60   |
| CP4916-107                                                                          | 0.518 | 0.733  | 1.04   | 1.27   | 1.47   | 1.64   | 1.79   |
| CP4916-110                                                                          | 0.548 | 0.775  | 1.10   | 1.34   | 1.55   | 1.73   | 1.90   |
| CP4916-115                                                                          | 0.605 | 0.855  | 1.21   | 1.48   | 1.71   | 1.91   | 2.09   |
| CP4916-120                                                                          | 0.629 | 0.890  | 1.26   | 1.54   | 1.78   | 1.99   | 2.18   |
| CP4916-125                                                                          | 0.693 | 0.980  | 1.39   | 1.70   | 1.96   | 2.19   | 2.40   |
| CP4916-128                                                                          | 0.721 | 1.02   | 1.44   | 1.77   | 2.04   | 2.28   | 2.50   |
| CP4916-132                                                                          | 0.774 | 1.10   | 1.55   | 1.90   | 2.19   | 2.45   | 2.68   |
| CP4916-136                                                                          | 0.840 | 1.19   | 1.68   | 2.06   | 2.38   | 2.66   | 2.91   |
| CP4916-140                                                                          | 0.894 | 1.27   | 1.79   | 2.19   | 2.53   | 2.83   | 3.10   |
| CP4916-144                                                                          | 0.926 | 1.31   | 1.85   | 2.27   | 2.62   | 2.93   | 3.21   |
| CP4916-147                                                                          | 0.953 | 1.35   | 1.91   | 2.33   | 2.70   | 3.01   | 3.30   |
| CP4916-151                                                                          | 1.04  | 1.47   | 2.08   | 2.55   | 2.94   | 3.29   | 3.60   |
| CP4916-156                                                                          | 1.10  | 1.55   | 2.20   | 2.69   | 3.11   | 3.47   | 3.80   |
| CP4916-161                                                                          | 1.15  | 1.63   | 2.31   | 2.83   | 3.27   | 3.65   | 4.00   |
| CP4916-166                                                                          | 1.21  | 1.72   | 2.43   | 2.97   | 3.43   | 3.84   | 4.20   |
| CP4916-170                                                                          | 1.30  | 1.84   | 2.61   | 3.19   | 3.69   | 4.12   | 4.51   |
| CP4916-172                                                                          | 1.36  | 1.92   | 2.71   | 3.32   | 3.84   | 4.29   | 4.70   |
| CP4916-177                                                                          | 1.41  | 2.00   | 2.83   | 3.46   | 4.00   | 4.47   | 4.90   |
| CP4916-182                                                                          | 1.47  | 2.08   | 2.95   | 3.61   | 4.17   | 4.66   | 5.10   |
| CP4916-187                                                                          | 1.56  | 2.21   | 3.12   | 3.82   | 4.41   | 4.93   | 5.40   |
| CP4916-196                                                                          | 1.73  | 2.45   | 3.46   | 4.24   | 4.90   | 5.47   | 6.00   |
| CP4916-205                                                                          | 1.88  | 2.65   | 3.75   | 4.59   | 5.31   | 5.93   | 6.50   |
| CP4916-218                                                                          | 2.11  | 2.98   | 4.21   | 5.16   | 5.96   | 6.66   | 7.30   |
| CP4916-234                                                                          | 2.45  | 3.47   | 4.91   | 6.01   | 6.94   | 7.76   | 8.50   |
| CP4916-250                                                                          | 2.83  | 4.00   | 5.66   | 6.93   | 8.00   | 8.94   | 9.80   |

## DLQ TONGUE - JACK & HITCH OPTIONS

### 4410351 DLQ HOSE STAND ASSEMBLY



|            |               |          |
|------------|---------------|----------|
| DRAWN BY   | RICH SMOTHERS | 6/2/2014 |
| CHECKED BY |               |          |
| PRINT DATE | 12/19/2022    |          |
| CONFIG.    | Default       |          |
| COMMENTS:  |               |          |

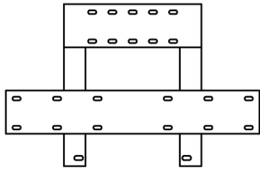
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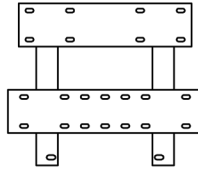
DWG: DLQ TONGUE - JACK AND HITCH OPTIONS

|                  |                        |                 |
|------------------|------------------------|-----------------|
| SIZE<br><b>A</b> | SHEET TITLE:<br>Sheet1 | REV<br><b>A</b> |
| SCALE: 1:16      | SHEET 1 OF 1           |                 |

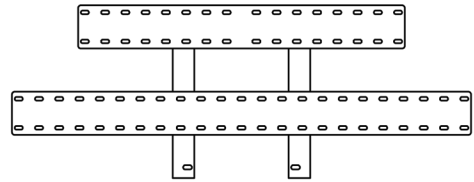
## DLQ HD TOOLBAR CONTROL ARM



4420840 DLQ FLOW MONITOR PANEL, 1



4420841 DLQ FLOW MONITOR PANEL, 2



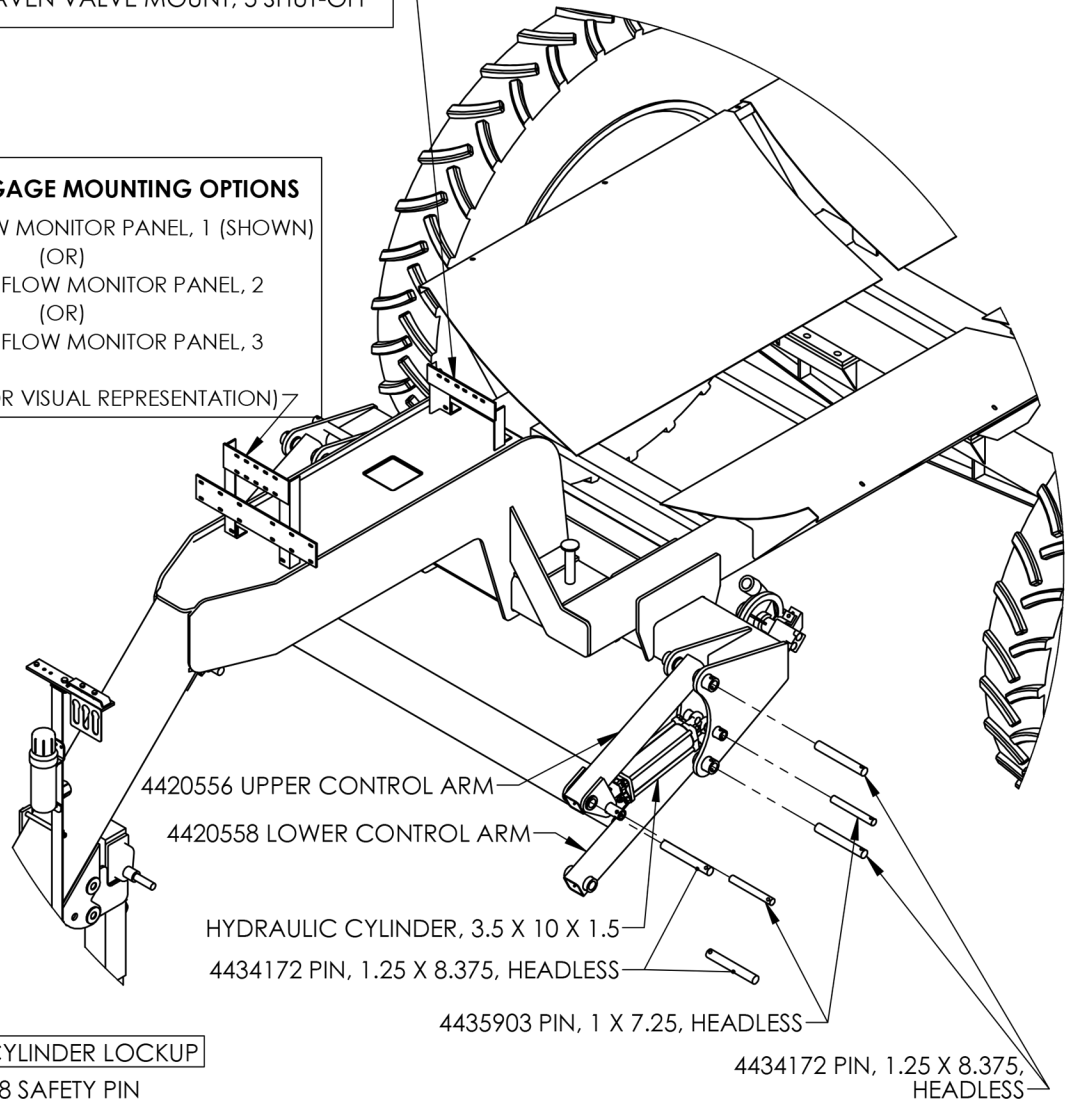
4421296 DLQ FLOW MONITOR PANEL, 3

### RAVEN SHUTOFF MOUNTING OPTIONS

4420842 RAVEN VALVE MOUNT, 3 SHUT-OFF  
(OR)  
4420917 RAVEN VALVE MOUNT, 5 SHUT-OFF

### VISIFLO GAGE MOUNTING OPTIONS

4420840 DLQ FLOW MONITOR PANEL, 1 (SHOWN)  
(OR)  
4420841 DLQ FLOW MONITOR PANEL, 2  
(OR)  
4421296 DLQ FLOW MONITOR PANEL, 3  
(SEE ABOVE FOR VISUAL REPRESENTATION)



TB 4410231-10, CYLINDER LOCKUP  
WITH 640028 SAFETY PIN

|            |               |          |
|------------|---------------|----------|
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| CHECKED BY |               |          |
| PRINT DATE | 12/16/2022    |          |
| CONFIG.    | Default       |          |
| COMMENTS:  |               |          |

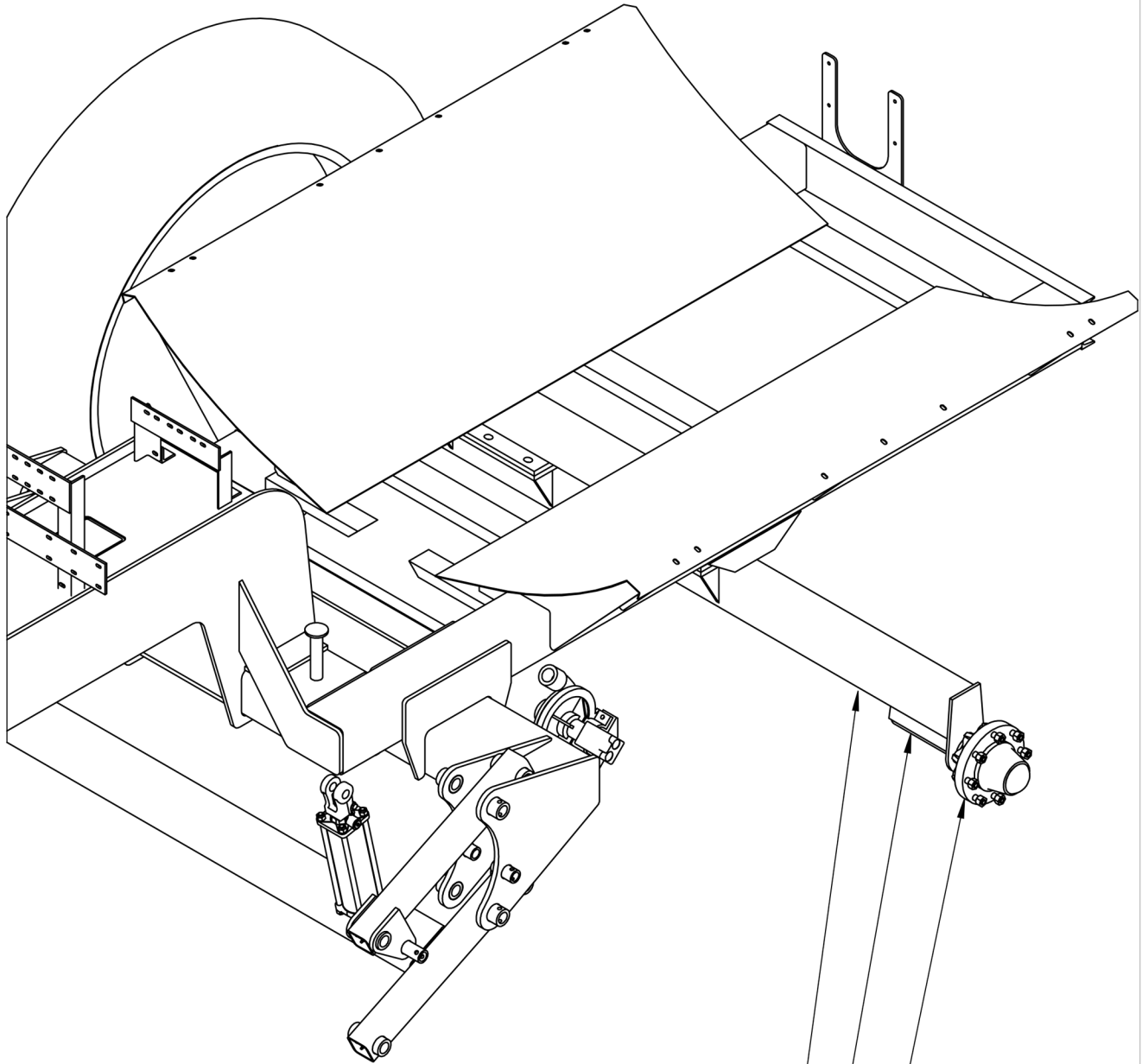


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DWG: DLQ HD TOOLBAR CONTROL ARM

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| SIZE<br><b>A</b> | SHEET TITLE:<br>Sheet1 | REV<br><b>A</b> |
| SCALE: 1:18      | SHEET 1 OF 1           |                 |

# DLQSTD AXLE, SPINDLE, AND HUB



**4410196 AXLE, 8B, 120, ASSEMBLY**

4420489 AXLE, 8B, 120, WELDMENT

S5199-K-00 3 X 18.25 SPINDLE

2001113, 758 8-BOLT HUB ASSEMBLY

|            |               |           |
|------------|---------------|-----------|
| DRAWN BY   | RICH SMOTHERS | 9/18/2015 |
| CHECKED BY |               |           |
| PRINT DATE | 12/16/2022    |           |
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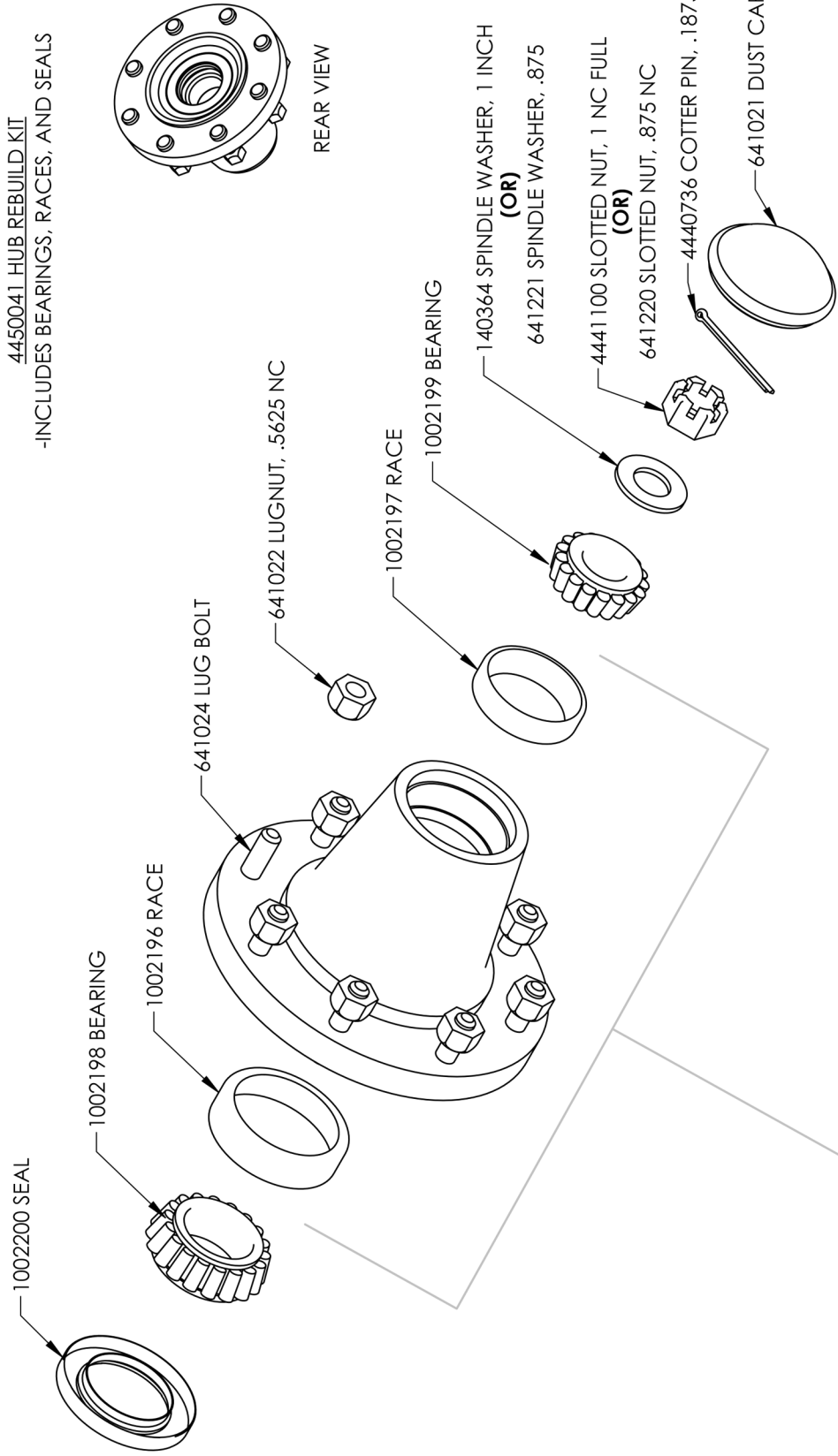
DWG: DLQSTD AXLE, SPINDLE, AND HUB

|                  |                        |                 |
|------------------|------------------------|-----------------|
| SIZE<br><b>A</b> | SHEET TITLE:<br>Sheet1 | REV<br><b>A</b> |
| SCALE: 1:16      |                        | SHEET 1 OF 1    |



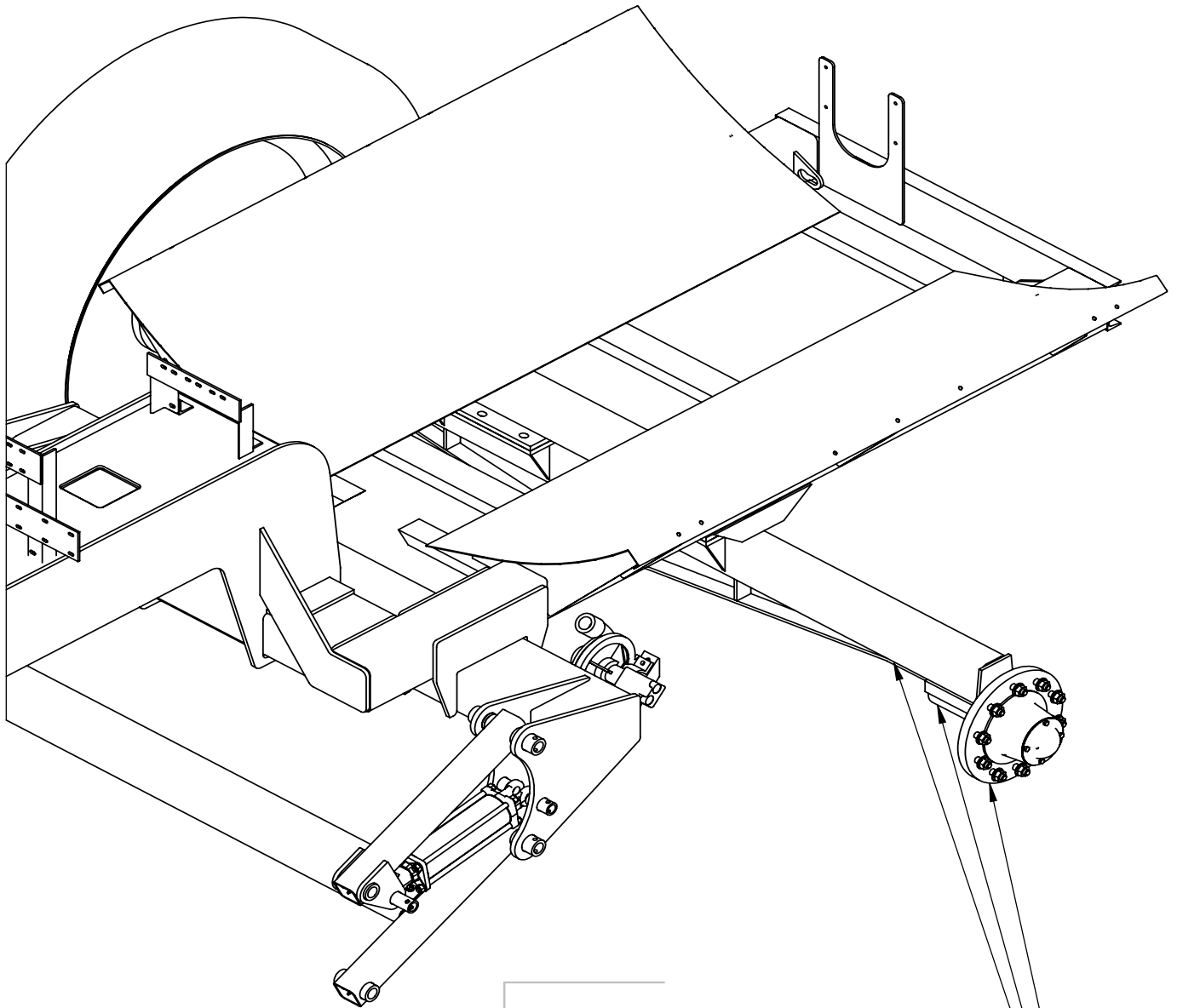
1002194, 81908-BOLT HUB ASSEMBLY, COMPLETE

1002194, 819 8-BOLT HUB ASSEMBLY, COMPLETE



|                                                                                                                                                                                                                       |  |                          |               |          |                                                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------|---------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1002194, 819 8-BOLT HUB ASSEMBLY, COMPLETE</b>                                                                                                                                                                     |  | DRAWN BY                 | RICH SMOTHERS | 5/4/2009 | <br>Dalton USA<br>A G P R O D U C T S<br>602 E. VAN BUREN ST., LENOX, IA 50851 |
|                                                                                                                                                                                                                       |  | CHECKED BY               |               |          |                                                                                                                                                                   |
|                                                                                                                                                                                                                       |  | PRINT DATE               | 4/29/2024     |          |                                                                                                                                                                   |
|                                                                                                                                                                                                                       |  | CONFIG.                  | Default       |          |                                                                                                                                                                   |
| DWG: 1002194, 819 8-BOLT HUB ASSEMBLY, COMPLETE                                                                                                                                                                       |  | COMMENTS:                |               |          |                                                                                                                                                                   |
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| SCALE: 1:4                                                                                                                                                                                                            |  | SHEET 1 OF 1             |               |          |                                                                                                                                                                   |

# DLQHD AXLE, SPINDLE, AND HUB (EXCLUDING DLQHD 2000)



4410352 AXLE, 10B, 120, TRUSSED, ASSEMBLY

4420492 AXLE, 10B, 120, TRUSSED, WELDMENT

S-5296-L-12 SPINDLE, 3.50X16

4410248, 873 10-BOLT HUB ASSEMBLY, COMPLETE

|            |               |           |
|------------|---------------|-----------|
| DRAWN BY   | RICH SMOTHERS | 1/21/2015 |
| CHECKED BY |               |           |
| PRINT DATE | 3/17/2017     |           |
| CONFIG.    | Default       |           |
| COMMENTS:  |               |           |



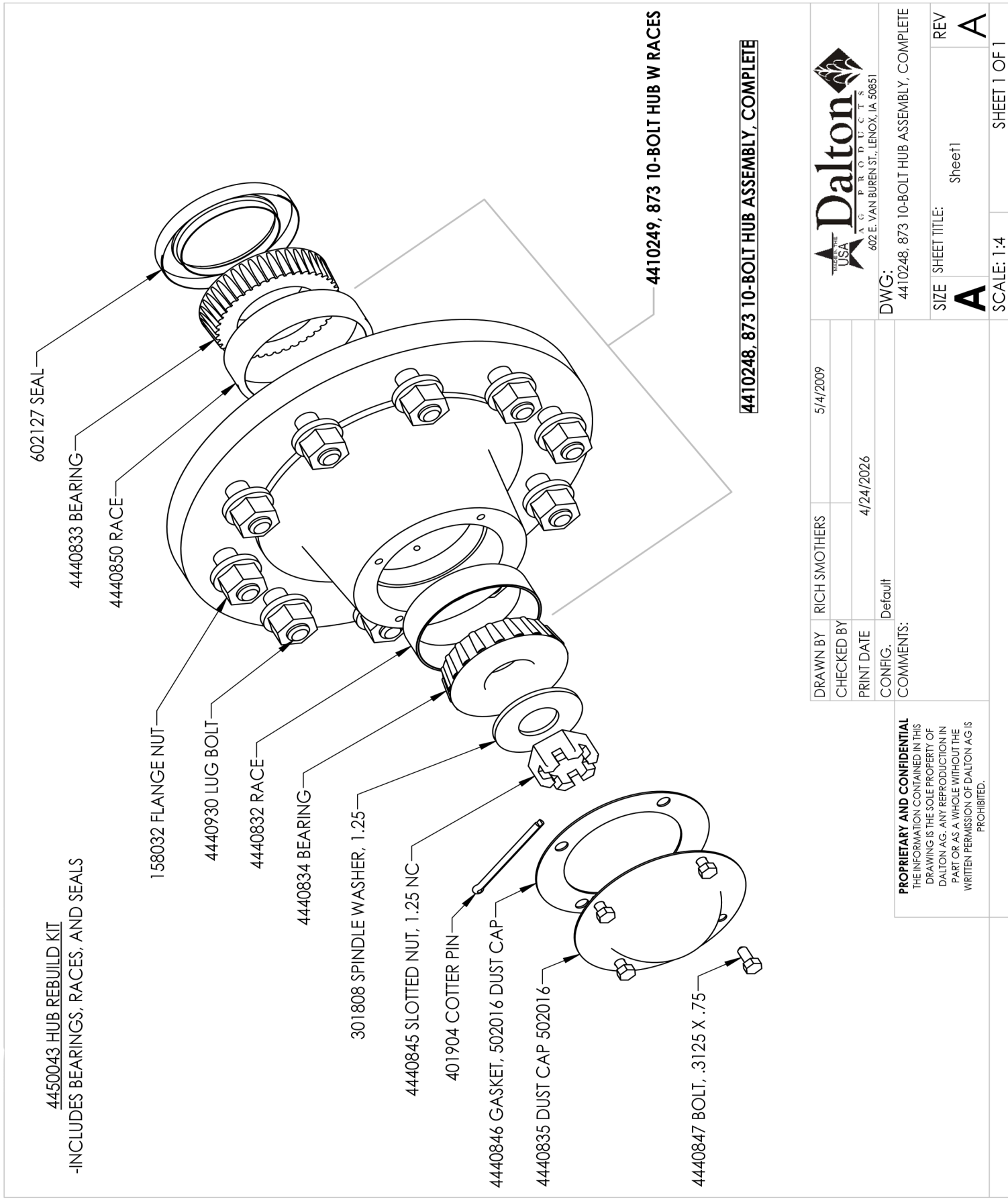
DWG: DLQHD AXLE, SPINDLE, AND HUB

|                  |                        |                 |
|------------------|------------------------|-----------------|
| SIZE<br><b>A</b> | SHEET TITLE:<br>Sheet1 | REV<br><b>A</b> |
| SCALE: 1:16      | SHEET 1 OF 1           |                 |

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4410248, 873 10 BOLT HUB ASSEMBLY, COMPLETE



DRAWN BY RICH SMOTHERS 5/4/2009

CHECKED BY  
PRINT DATE 4/24/2026

CONFIG. Default

COMMENTS:

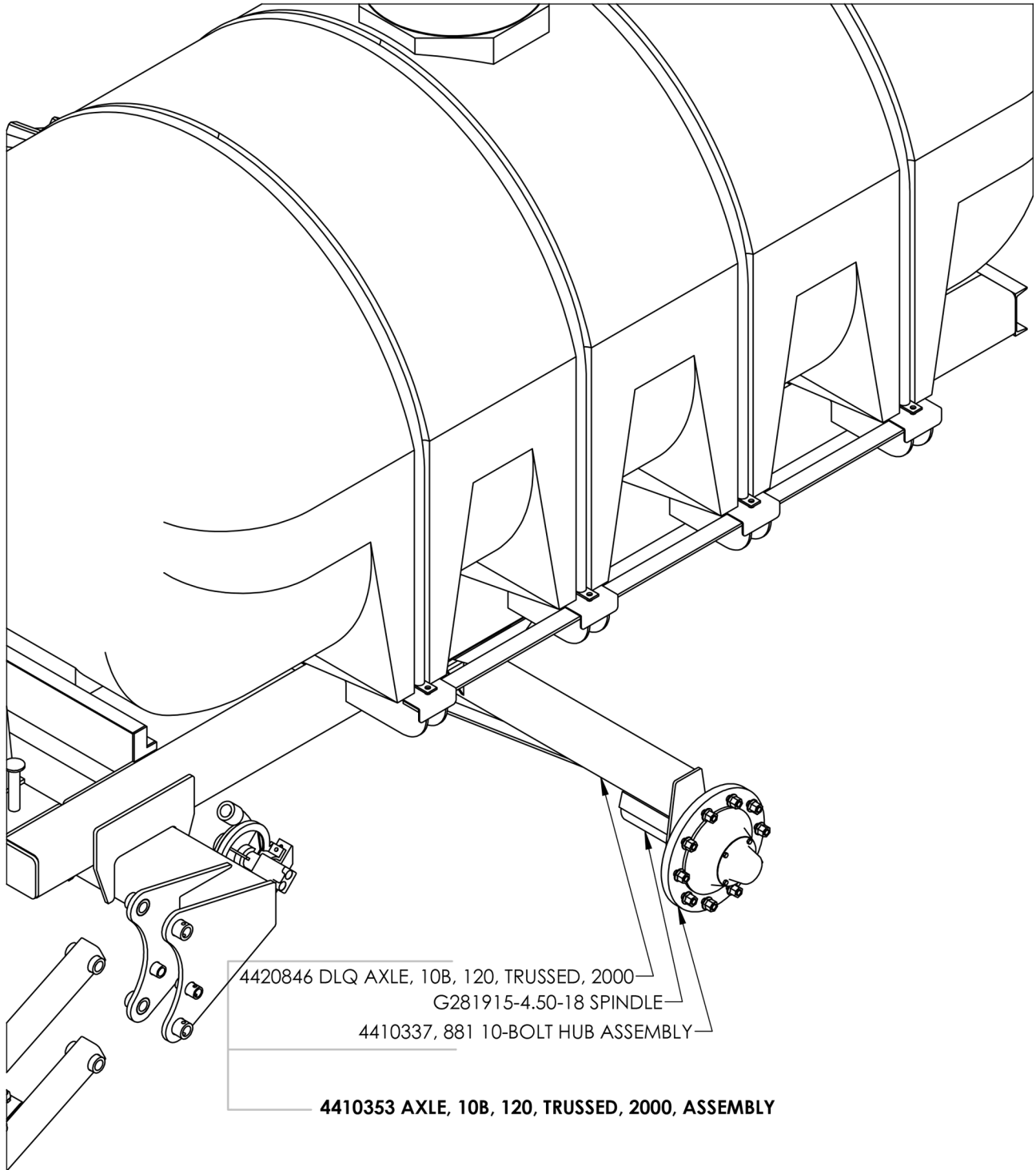
DWG: 4410248, 873 10-BOLT HUB ASSEMBLY, COMPLETE

SIZE A SHEET TITLE: Sheet1 REV A

SCALE: 1:4 SHEET 1 OF 1

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# DLQHD 2000 AXLE, SPINDLE, AND HUB



|            |               |          |
|------------|---------------|----------|
| DRAWN BY   | RICH SMOTHERS | 6/2/2014 |
| CHECKED BY |               |          |
| PRINT DATE | 12/16/2022    |          |
| CONFIG.    | Default       |          |
| COMMENTS:  |               |          |



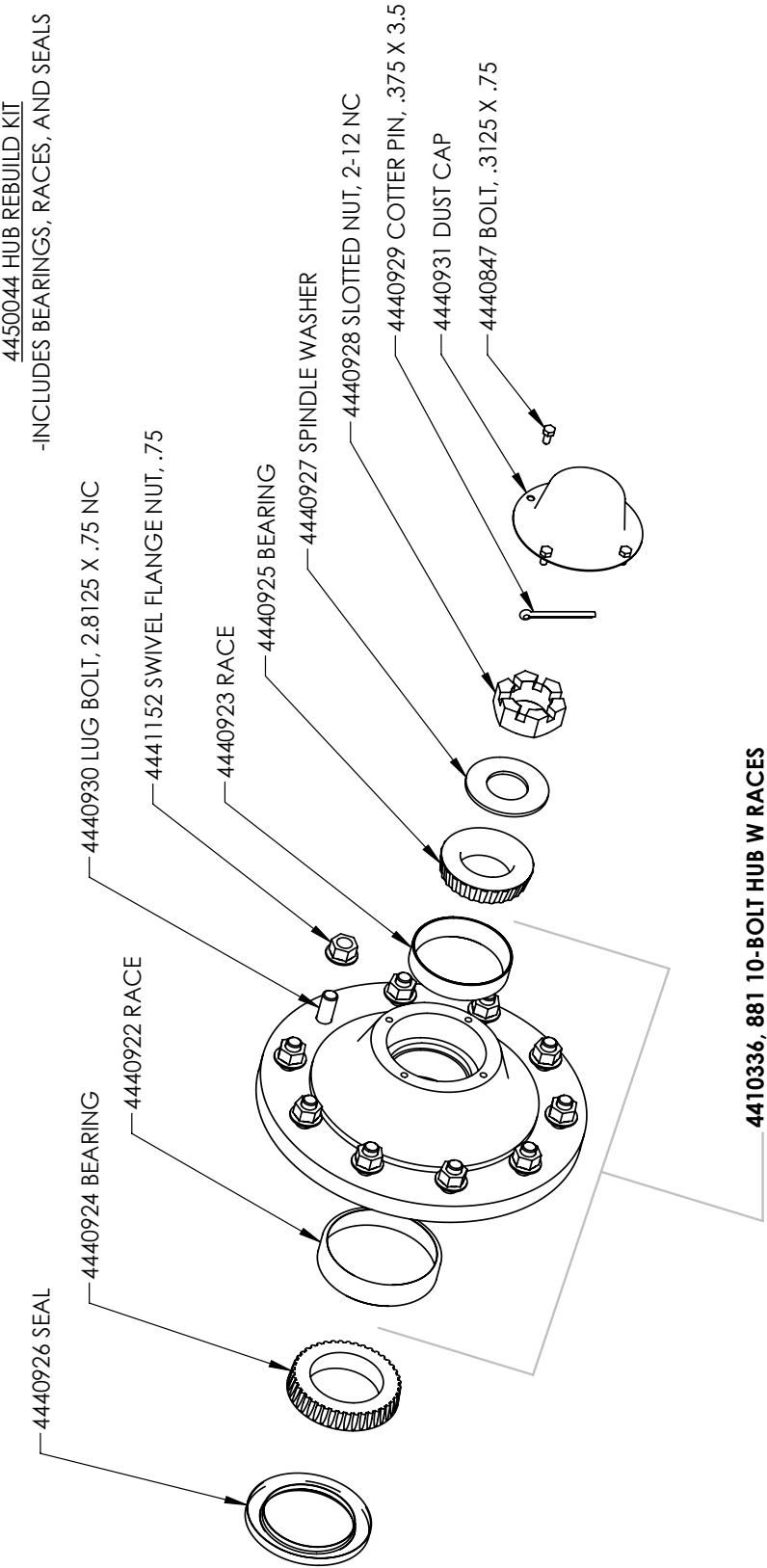
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DWG: DLQHD 2000 AXLE, SPINDLE, AND HUB

|                  |                        |                 |
|------------------|------------------------|-----------------|
| SIZE<br><b>A</b> | SHEET TITLE:<br>Sheet1 | REV<br><b>A</b> |
| SCALE: 1:16      |                        | SHEET 1 OF 1    |

4410337, 881 10-BOLT HUB ASSEMBLY, COMPLETE

4410337, 881 10-BOLT HUB ASSEMBLY



4410337, 881 10-BOLT HUB ASSEMBLY



DRAWN BY RICH SMOTHERS 5/18/2015

CHECKED BY

PRINT DATE 12/13/2017

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DWG: 4410337, 881 10-BOLT HUB ASSEMBLY

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

SCALE: 1:8 SHEET 1 OF 1

5

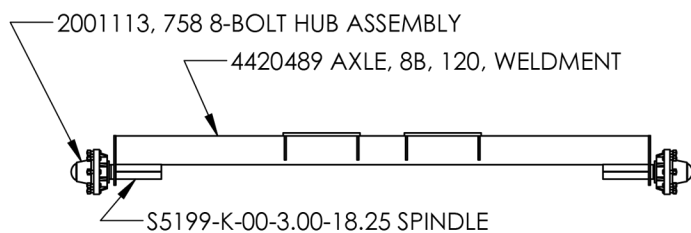
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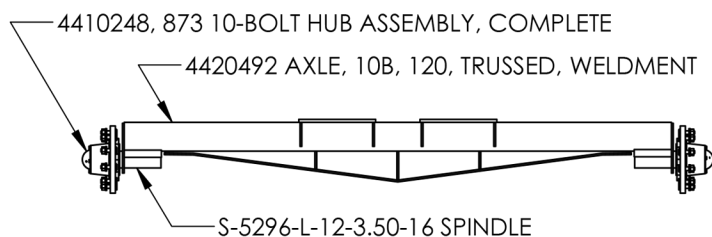
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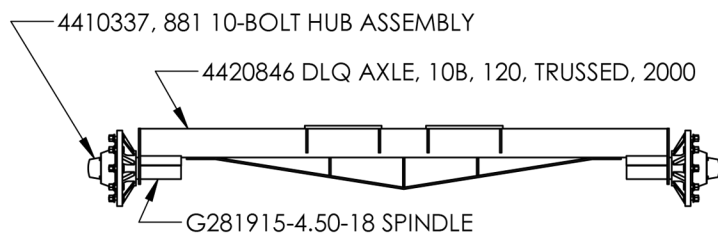
## AXLE ASSEMBLY



**4410196 AXLE, 8B, 120, ASSEMBLY**



**4410352 AXLE, 10B, 120, TRUSSED, ASSEMBLY**



**4410353 AXLE, 10B, 120, TRUSSED, 2000, ASSEMBLY**

**DLQ**

**DLQHD**

**DLQHD  
2000**

|            |                                 |            |
|------------|---------------------------------|------------|
| DRAWN BY   | RICH SMOTHERS                   | 12/27/2013 |
| CHECKED BY |                                 |            |
| PRINT DATE | 2/7/2023                        |            |
| CONFIG.    | 4410196 AXLE, 8B, 120, ASSEMBLY |            |



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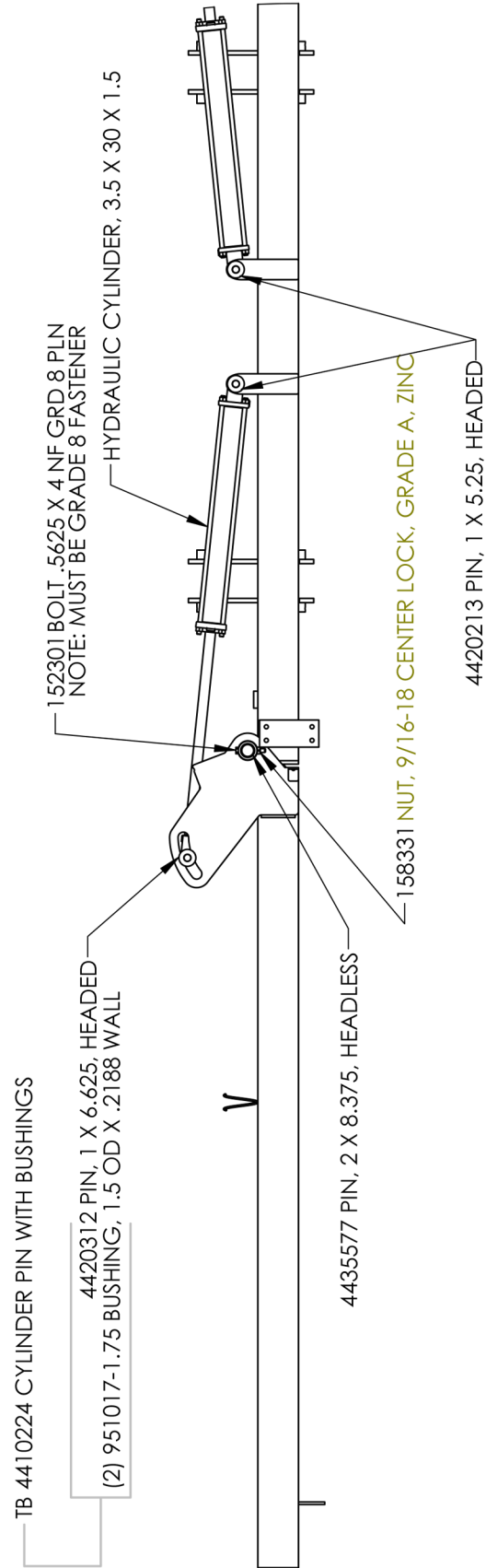
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|                  |                        |                 |
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|------------------|------------------------|-----------------|

**FOR PARTS, CALL 1.800.342.7498**

SCALE: 1:36 SHEET 1 OF 1

## DLQ SINGLE LIFT TOOLBAR



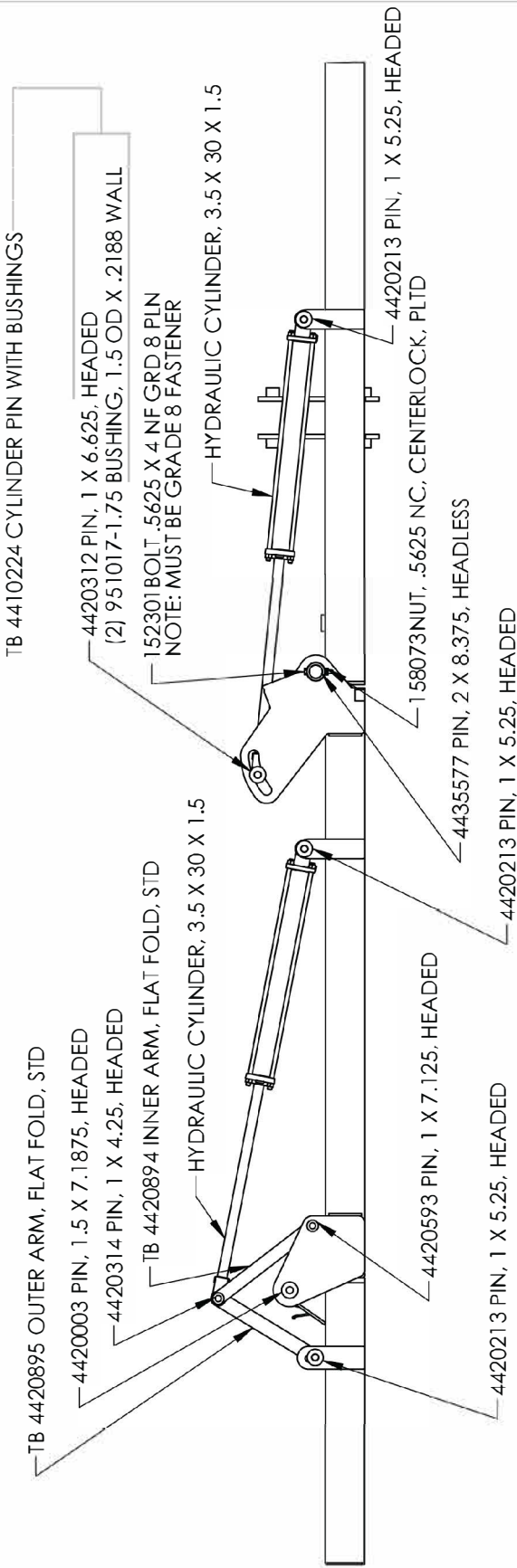
|                                                                                                                                                                                                                                        |            |               |           |                                                                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------|-----------|----------------------------------------------------------------------------------------------------------|
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|                                                                                                                                                                                                                                        | CHECKED BY |               |           |                                                                                                          |
|                                                                                                                                                                                                                                        | PRINT DATE | 6/25/2024     |           |                                                                                                          |
|                                                                                                                                                                                                                                        | CONFIG.    | Default       |           |                                                                                                          |
|                                                                                                                                                                                                                                        | COMMENTS:  |               |           |                                                                                                          |
| <p>DWG: DLQ SINGLE LIFT TOOLBAR</p>                                                                                                                                                                                                    |            |               |           | <p>SIZE <b>A</b> SHEET TITLE: Sheet1 REV <b>A</b></p>                                                    |
| <p>SCALE: 1:24</p>                                                                                                                                                                                                                     |            |               |           | <p>SHEET 1 OF 1</p>                                                                                      |
| 5                                                                                                                                                                                                                                      | 4          | 3             | 2         | 1                                                                                                        |

## DLQ FRONT FOLD TOOLBAR

21

DLQ DOUBLE LIFT TOOLBAR

DLQ DOUBLE LIFT TOOLBAR



602 E. VAN BUREN ST., LENOX, IA 50851

DRAWN BY RICH SMOTHERS 6/12/2015

CHECKED BY

PRINT DATE 12/16/2022

CONTR. Default

COMMENTS:

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DWG: DLQ DOUBLE LIFT TOOLBAR

| SIZE | SHEET TITLE: | Sheet# | REV |
|------|--------------|--------|-----|
| A    |              |        | A   |

SCALE: 1:24

5

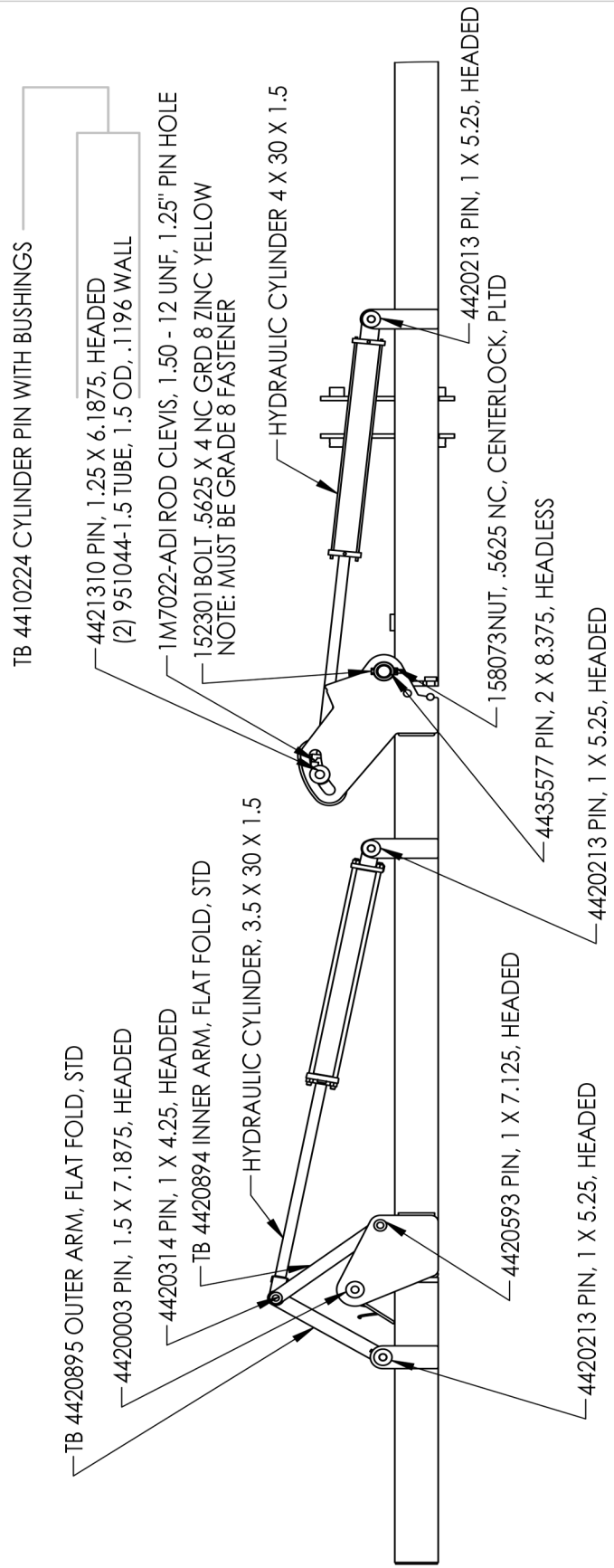
4

3

2

1

SHEET 1 OF 1



NOTE: INBOARD CYLINDER REQUIRES 1M7022-ADI CLEVIS INSTALLED



|            |               |           |
|------------|---------------|-----------|
| DRAWN BY   | RICH SMOTHERS | 6/12/2015 |
| CHECKED BY |               |           |
| PRINT DATE | 6/30/2026     |           |
| CONFIG.    | Default       |           |
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DWG: DLQ DOUBLE LIFT TOOLBAR

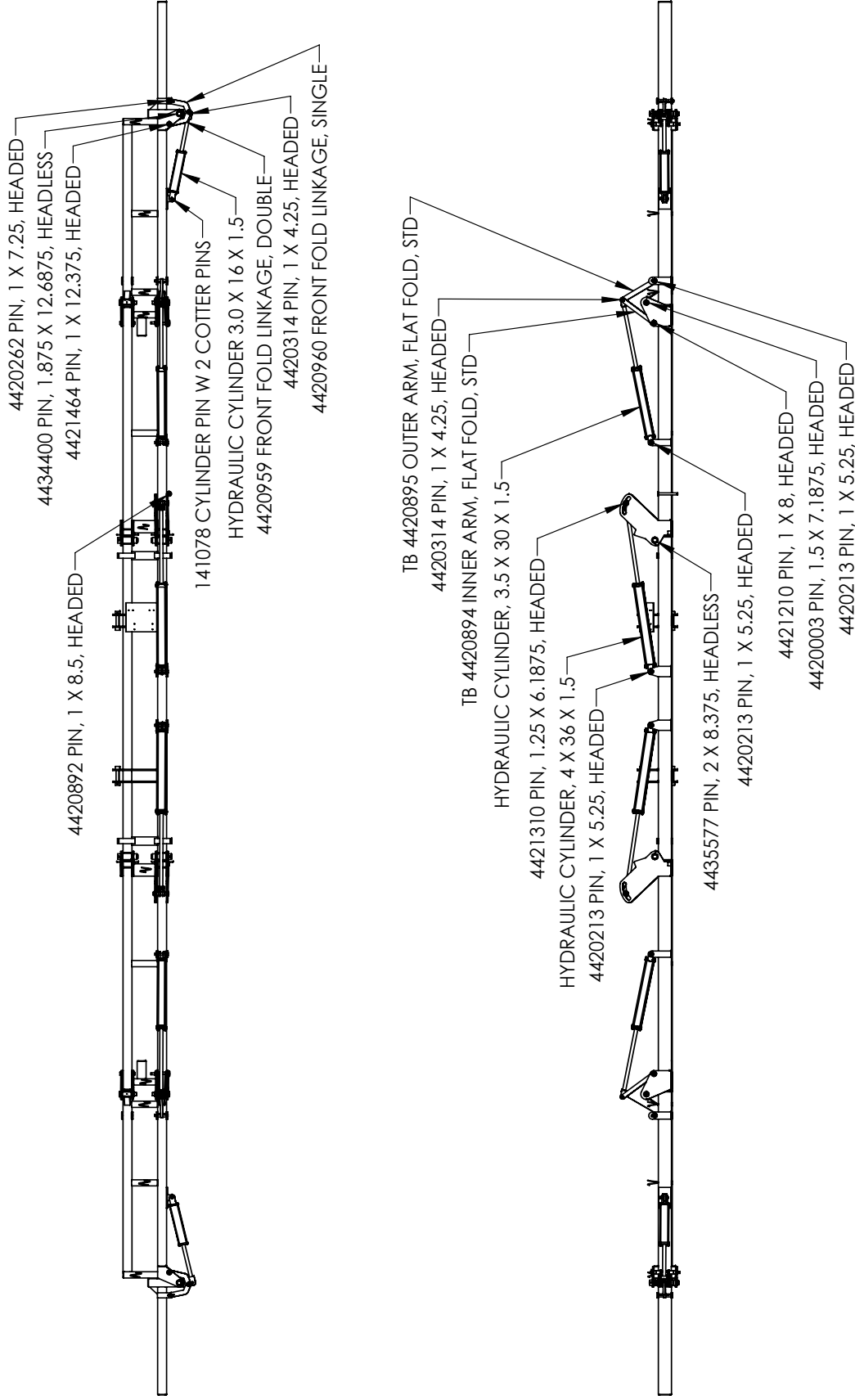
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|------|---|--------------|--------|-----|---|
| SIZE | A | SHEET TITLE: | Sheet1 | REV | A |
|------|---|--------------|--------|-----|---|

SCALE: 1:24 SHEET 1 OF 1

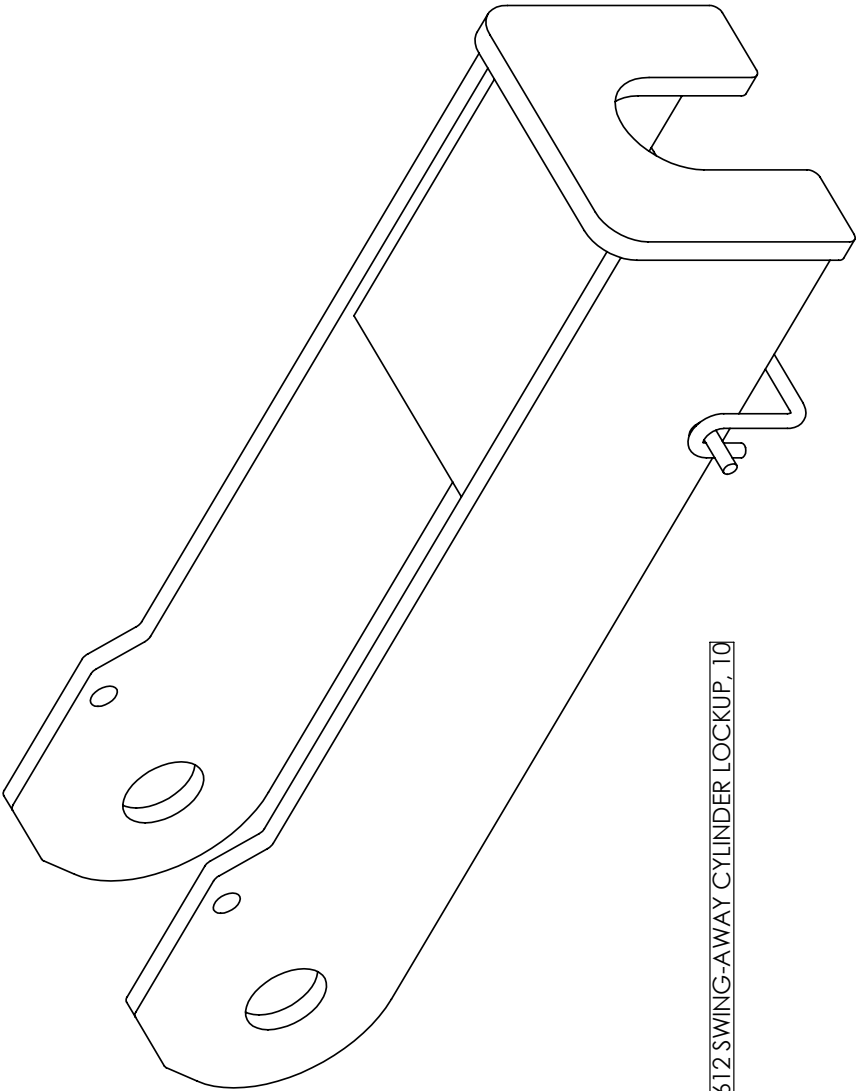


# DLQHD 60' TOOLBAR

DLQ HD - 60 FOOT TOOLBAR



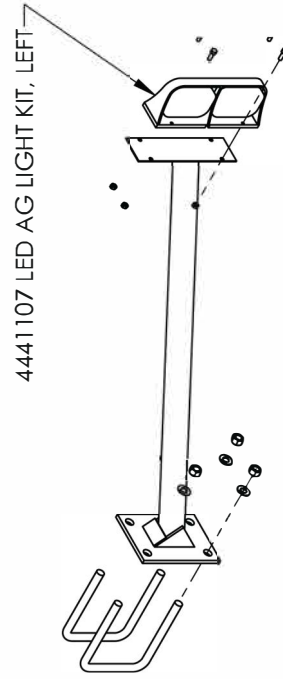
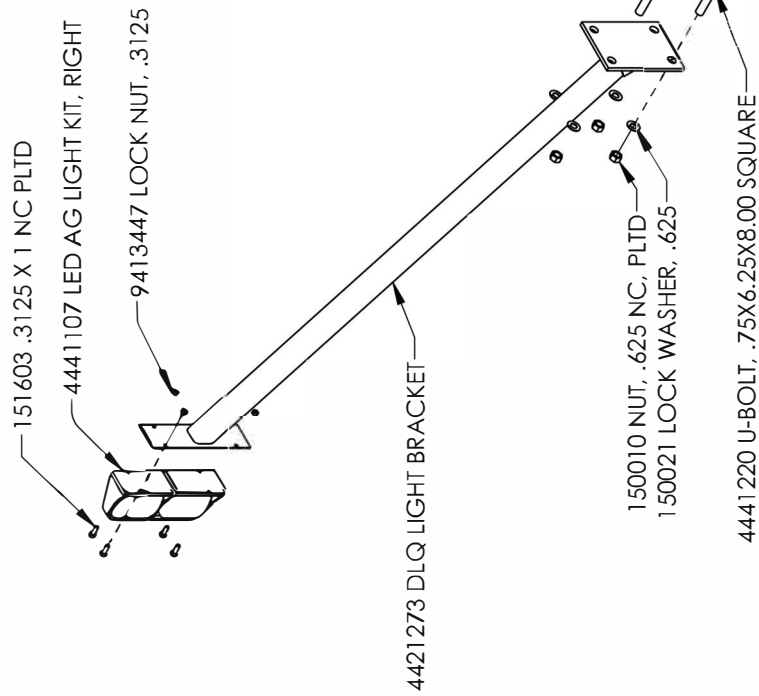
|                                                                                                                                                                                                                               |                          |               |              |                                                                                                                              |     |   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------|--------------|------------------------------------------------------------------------------------------------------------------------------|-----|---|
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|                                                                                                                                                                                                                               | CHECKED BY               |               |              |                                                                                                                              |     |   |
|                                                                                                                                                                                                                               | PRINT DATE               | 1/28/2019     |              |                                                                                                                              |     |   |
|                                                                                                                                                                                                                               | CONFIG.                  | Default       |              |                                                                                                                              |     |   |
|                                                                                                                                                                                                                               | COMMENTS:                |               |              |                                                                                                                              |     |   |
|                                                                                                                                                                                                                               | DLQ HD - 60 FOOT TOOLBAR |               |              |                                                                                                                              |     |   |
|                                                                                                                                                                                                                               | SIZE                     | A             | SHEET TITLE: | Sheet1                                                                                                                       | REV | A |
|                                                                                                                                                                                                                               | SCALE: 1:66              |               |              | SHEET 1 OF 1                                                                                                                 |     |   |



4410612 SWING-AWAY CYLINDER LOCKUP, 10

TOOLBAR CYLINDER STOP

|                                                                                                                                                                                                                                     |  |               |           |                                                                                                                                                                      |                            |     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----|
| DRAWN BY                                                                                                                                                                                                                            |  | Jeremy Newton | 2/14/2017 | <div><p><b>Dalton</b><br/>USA<br/>602 E. VAN BUREN ST., LENOX, IA 50851</p></div> | DWG: TOOLBAR CYLINDER STOP |     |
| CHECKED BY                                                                                                                                                                                                                          |  |               |           |                                                                                                                                                                      |                            |     |
| PRINT DATE                                                                                                                                                                                                                          |  | 2/22/2019     |           |                                                                                                                                                                      |                            |     |
| CONFIG.                                                                                                                                                                                                                             |  | Default       |           |                                                                                                                                                                      |                            |     |
| COMMENTS:                                                                                                                                                                                                                           |  |               |           |                                                                                                                                                                      |                            |     |
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|                                                                                                                                                                                                                                     |  |               |           | A                                                                                                                                                                    | Sheet1                     |     |
|                                                                                                                                                                                                                                     |  |               |           | SCALE: 1:2                                                                                                                                                           | SHEET 1 OF 1               |     |

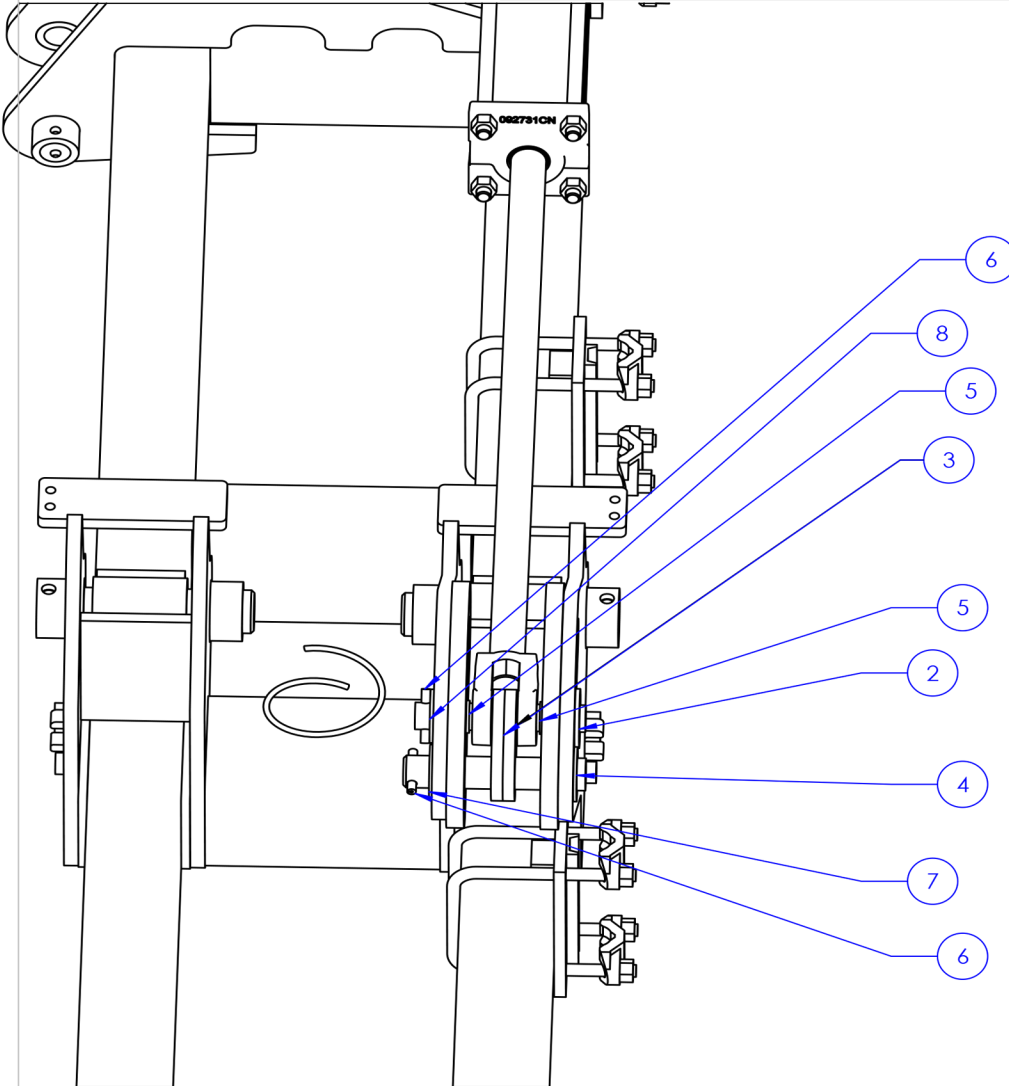


[4410545 DLQ LIGHT]

|                                                                                                                                                                                                                                               |  |               |  |           |  |                                                                                                                                                                                          |          |  |               |  |              |   |  |   |  |   |  |   |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------|--|-----------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--|---------------|--|--------------|---|--|---|--|---|--|---|--|
| DRAWN BY                                                                                                                                                                                                                                      |  | RICH SMOTHERS |  | 2/16/2017 |  | <div><p><b>Dalton</b><br/>USA<br/>AG<br/>PRODUCTS<br/>602 E. VAN BUREN ST., LENOX, IA 50851</p></div> | DWG:     |  | DLQ LIGHT KIT |  |              |   |  |   |  |   |  |   |  |
| CHECKED BY                                                                                                                                                                                                                                    |  |               |  |           |  |                                                                                                                                                                                          | SIZE     |  | SHEET TITLE:  |  | REV          |   |  |   |  |   |  |   |  |
| PRINT DATE                                                                                                                                                                                                                                    |  | 9/27/2023     |  |           |  |                                                                                                                                                                                          | <b>A</b> |  | Sheet1        |  | <b>B</b>     |   |  |   |  |   |  |   |  |
| CONFIG.                                                                                                                                                                                                                                       |  | Default       |  |           |  |                                                                                                                                                                                          | SCALE:   |  | 1:16          |  | SHEET 1 OF 1 |   |  |   |  |   |  |   |  |
| COMMENTS:                                                                                                                                                                                                                                     |  |               |  |           |  |                                                                                                                                                                                          |          |  |               |  |              |   |  |   |  |   |  |   |  |
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## DLQHD - 60 FOOT DOWNPRESSURE

| ITEM NO. | PART NUMBER | DESCRIPTION                   | QTY. |
|----------|-------------|-------------------------------|------|
| 1        | 4435577     | PIN, 2 X 8.438, HEADLESS      | 2    |
| 2        | 4421310     | PIN, 1.25 X 6.1875, HEADED    | 1    |
| 3        | 4434378     | DLQ PIN LINKAGE, HD           | 2    |
| 4        | 4420920     | DLQ LINKAGE PIN               | 1    |
| 5        | 951044-1.5  | TUBE 1.50 X 12 GA WALL        | 2    |
| 6        | 158014      | ROLL PIN, .375 X 2.5          | 2    |
| 7        | 4434304     | DLQ PIN LINKAGE WASHER        | 1    |
| 8        | 2001119     | WASHER, SAE FLAT, 1.25 PLATED | 1    |



**DLQ HD - 60 FOOT DOWNPRESSURE**

|            |               |           |
|------------|---------------|-----------|
| DRAWN BY   | RICH SMOTHERS | 6/12/2015 |
| CHECKED BY |               |           |
| PRINT DATE | 4/10/2026     |           |
| CONFIG.    | Default       |           |
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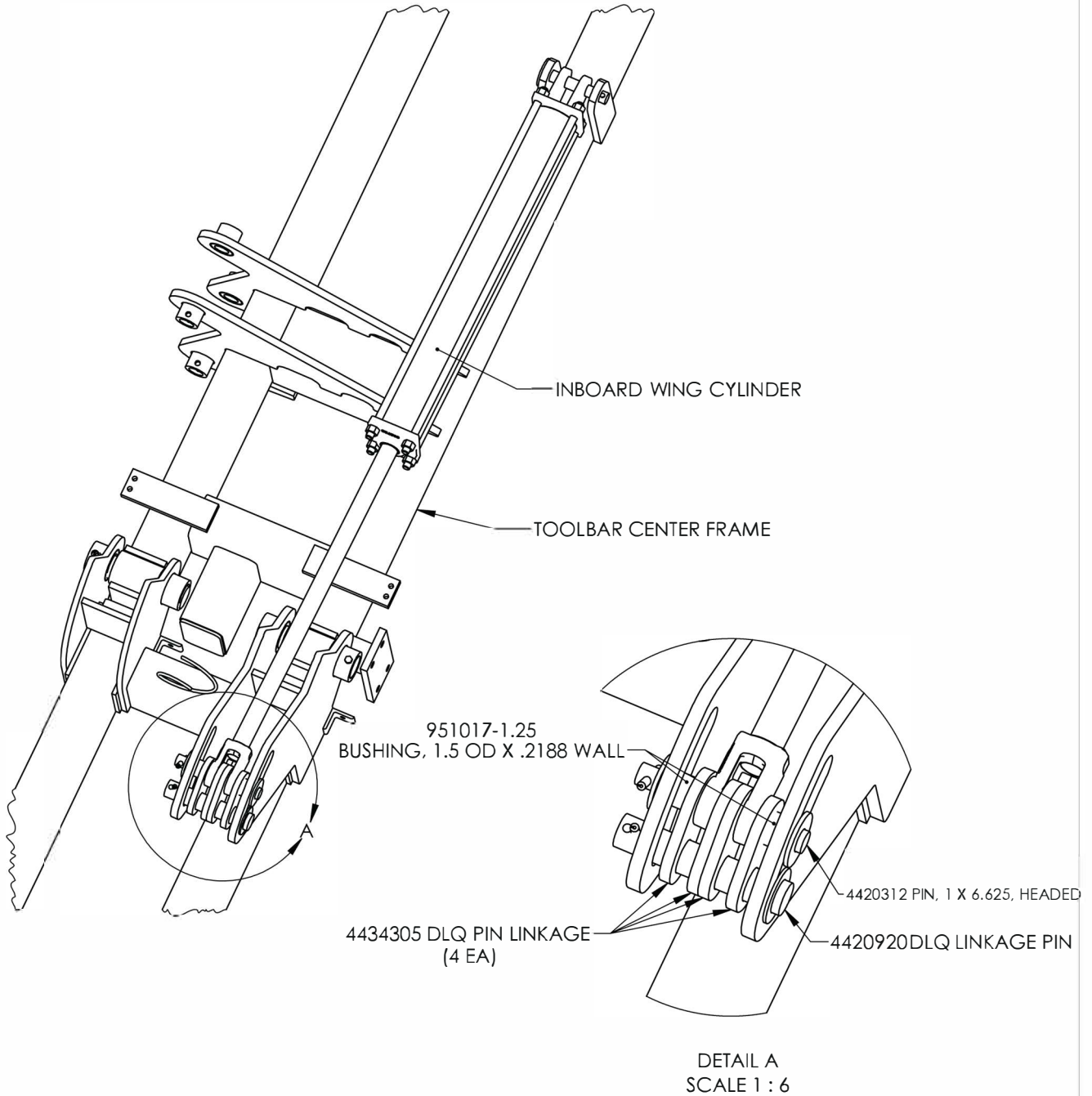
DWG: DLQ HD - 60 FOOT DOWNPRESSURE

|                  |                        |                 |
|------------------|------------------------|-----------------|
| SIZE<br><b>A</b> | SHEET TITLE:<br>Sheet1 | REV<br><b>B</b> |
|------------------|------------------------|-----------------|

**FOR PARTS, CALL 1.800.342.7498**

SCALE: 1:8 SHEET 1 OF 1

# DLQ DOWNPRESSURE KIT



## DLQ DOWNPRESSURE KIT

|            |               |           |
|------------|---------------|-----------|
| DRAWN BY   | RICH SMOTHERS | 6/12/2015 |
| CHECKED BY |               |           |
| PRINT DATE | 12/16/2022    |           |
| CONFIG.    | Default       |           |
| COMMENTS:  |               |           |

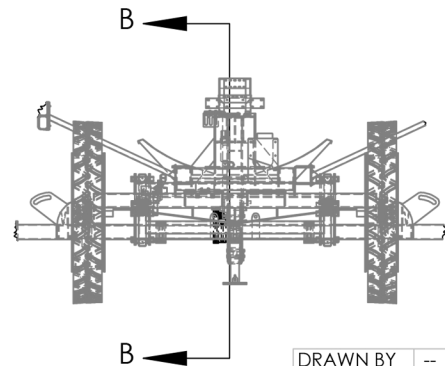
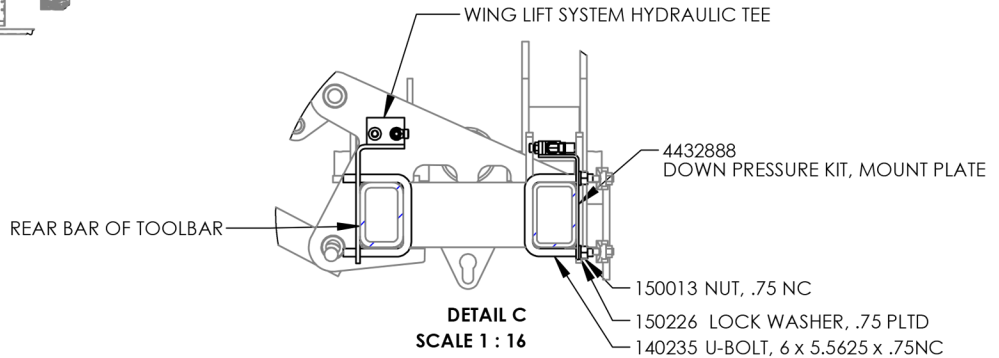
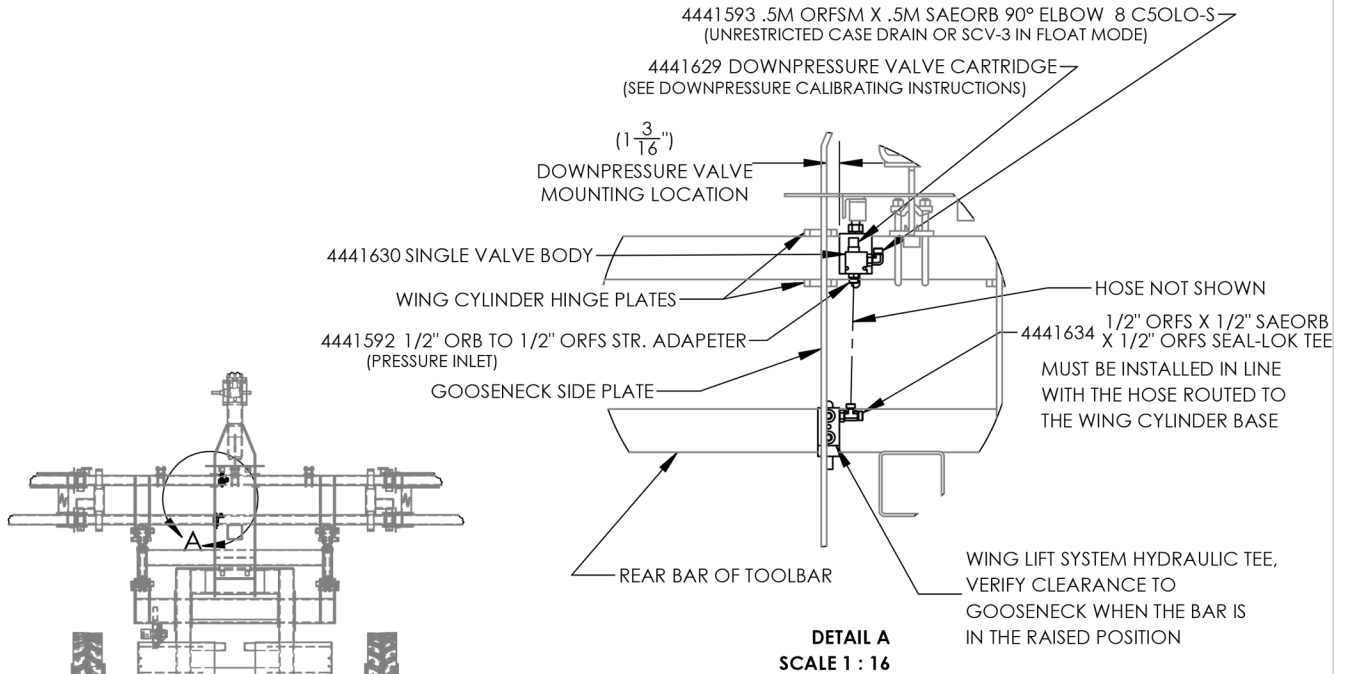


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DWG: DLQ DOWNPRESSURE KIT

|                  |                        |                 |
|------------------|------------------------|-----------------|
| SIZE<br><b>A</b> | SHEET TITLE:<br>Sheet1 | REV<br><b>A</b> |
| SCALE: 1:96      | SHEET 1 OF 1           |                 |

# DLQ DOWNPRESSURE MOUNT & HARDWARE



|            |         |            |
|------------|---------|------------|
| DRAWN BY   | --      | 12/22/2022 |
| CHECKED BY |         |            |
| PRINT DATE |         | 1/16/2023  |
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DWG:  
DLQ DOWNPRESSURE MOUNT AND HARDWARE

|                  |                        |                 |
|------------------|------------------------|-----------------|
| SIZE<br><b>A</b> | SHEET TITLE:<br>Sheet1 | REV<br><b>A</b> |
|------------------|------------------------|-----------------|

**FOR PARTS, CALL 1.800.342.7498**

SCALE: 1:192 SHEET 1 OF 2

## DLQ DOWNPRESSURE CALIBRATION

### DOWNPRESSURE CALIBRATION INSTRUCTIONS

NOTE: THIS PROCEDURE IS ONLY REQUIRED IF YOU PURCHASE THE DOWNPRESSURE FUNCTION AS AN UPGRADE TO AN EXISTING MACHINE OR YOU ARE DOING A FIELD REPLACEMENT OF THE DOWNPRESSURE VALVE. ANY DOWNPRESSURE SYSTEM THAT IS SHIPPED FROM DALTON AG INSTALLED ON A LIQUID APPLICATOR TOOLBAR WILL BE CALIBRATED AT DALTON AG PRIOR TO SHIPPING.

\*FOR THE DOWNPRESSURE FUNCTION TO OPERATE PROPERLY, THE HYDRAULIC SYSTEM MUST BE CALIBRATED TO OPERATE AT 500 PSI WHILE THE DOWNPRESSURE FUNCTION IS ACTIVATED. INCORRECT CALIBRATION COULD RESULT IN LOSS/REDUCED FUNCTIONALITY OR DAMAGE TO THE MACHINE.

1. UNIT NEEDS TO BE IN FIELD READY POSITION.
2. ATTACH A PRESSURE GAUGE BY TAPPING INTO THE HYDRAULIC LINE THAT CONNECTS THE WING CYLINDER BASE PORTS.
3. SET SCV VALVE FOR WING CYLINDERS TO OPEN/EXTEND THE WINGS.
4. ADJUST 4441629 DOWNPRESSURE VALVE CARTRIDGE, TO 500 PSI MAX READOUT ON THE PRESSURE GAUGE. REMEMBER TO LOCK THE VALVE WHEN FINISHED SO IT DOES NOT LOSE IT'S CALIBRATION.

|                                                                                                                                                                                                                       |            |               |            |                                                                                       |                                             |                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------|------------|---------------------------------------------------------------------------------------|---------------------------------------------|-----------------|
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|                                                                                                                                                                                                                       | PRINT DATE | 1/16/2023     |            |                                                                                       |                                             |                 |
|                                                                                                                                                                                                                       | CONFIG.    | Default       |            |                                                                                       |                                             |                 |
|                                                                                                                                                                                                                       | COMMENTS:  |               |            |                                                                                       | DWG:<br>DLQ DOWNPRESSURE MOUNT AND HARDWARE |                 |
|                                                                                                                                                                                                                       |            |               |            | SIZE<br><b>A</b>                                                                      | SHEET TITLE:<br>Sheet2                      | REV<br><b>A</b> |
| <b>FOR PARTS, CALL 1.800.342.7498</b>                                                                                                                                                                                 |            |               |            | SCALE: 1:192 SHEET 2 OF 2                                                             |                                             |                 |

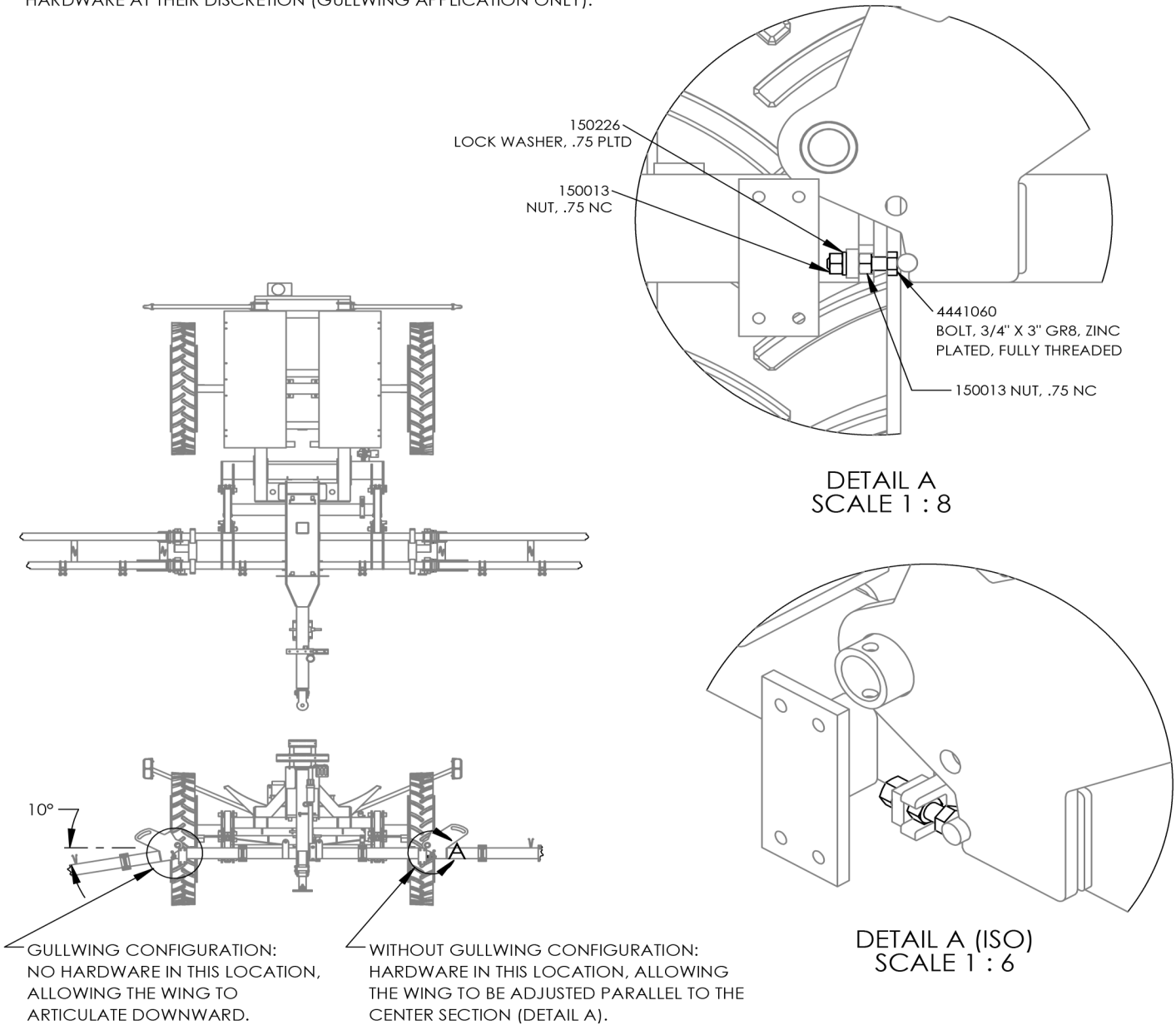
## CENTER SECTION HINGE CONFIGURATIONS

### DOUBLE RANK CENTER SECTION HINGE CONFIGURATION: WITH AND WITHOUT GULLWING APPLICATION

"WITHOUT GULLWING" APPLICATION: ADJUST THE FASTENER COMPONENTS SHOWN BELOW TO ACHIEVE LEVEL/PARALLEL RELATIONSHIP BETWEEN CENTER SECTION AND THE WINGS (DETAIL A).

"WITH GULLWING" APPLICATION: CUSTOMER CAN REMOVE THE FASTENER COMPONENTS SHOWN BELOW, WHICH WILL ALLOW THE TOOLBAR TO ARTICULATE DOWNWARD.

NOTE: ALL LIQUID APPLICATORS WILL BE SHIPPED WITH THE HARDWARE INSTALLED AS SHOWN BELOW, CUSTOMER TO REMOVE HARDWARE AT THEIR DISCRETION (GULLWING APPLICATION ONLY).



|                                                                                                                                                                                                                       |            |          |            |
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|                                                                                                                                                                                                                       | CONFIG.    | Default  |            |
|                                                                                                                                                                                                                       | COMMENTS:  |          |            |

|                                                                                                           |                             |              |                                     |
|-----------------------------------------------------------------------------------------------------------|-----------------------------|--------------|-------------------------------------|
| <br>www.DaltonAg.com |                             |              | DWG:                                |
|                                                                                                           |                             |              | CENTER SECTION HINGE CONFIGURATIONS |
| SIZE<br><b>A</b>                                                                                          | SHEET TITLE:<br>DOUBLE RANK |              | REV<br><b>A</b>                     |
| SCALE: 1:192                                                                                              |                             | SHEET 1 OF 2 |                                     |

**FOR PARTS, CALL 1.800.342.7498**



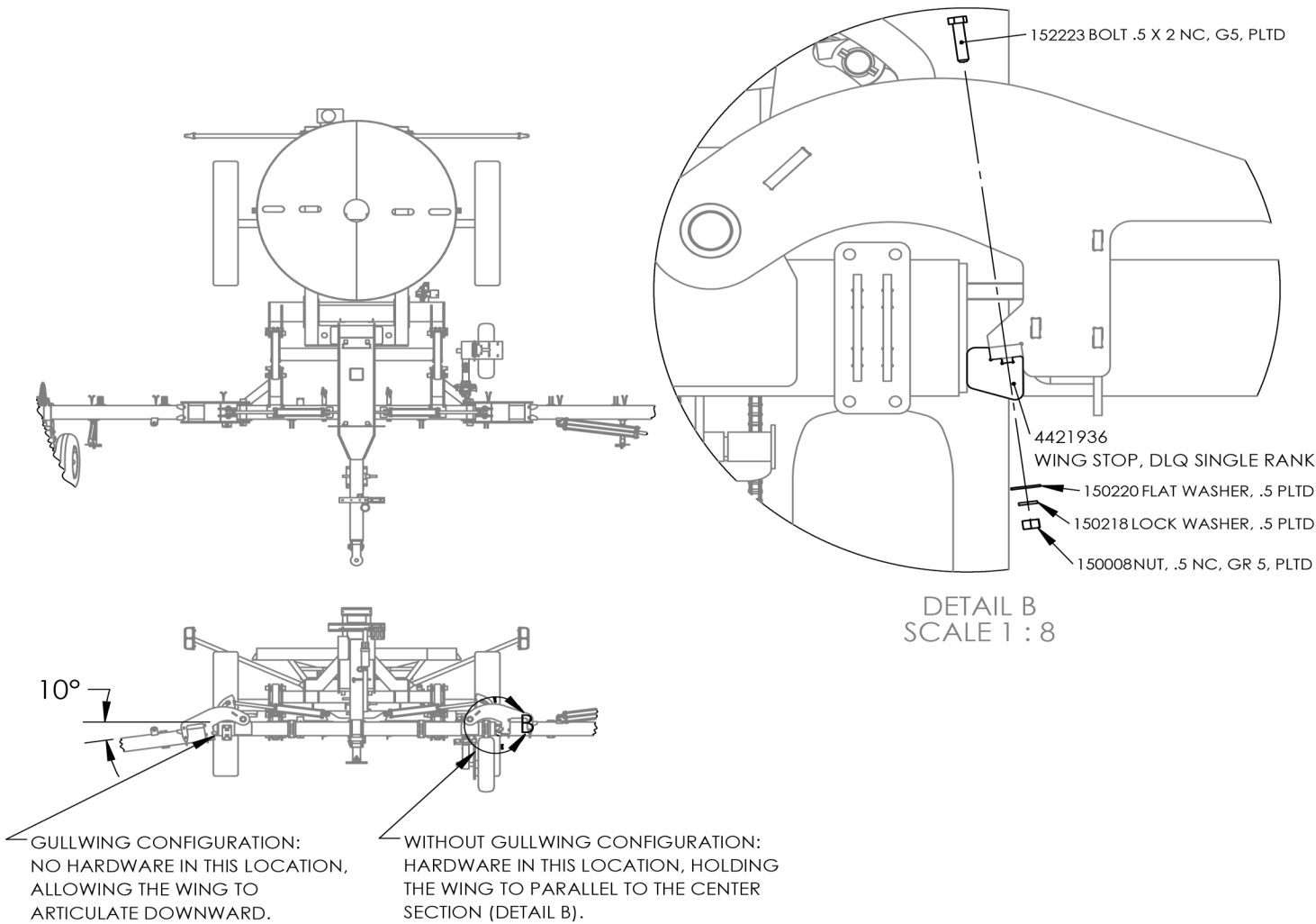
CENTER SECTION HINGE CONFIGURATIONS CONT.

SINGLE RANK CENTER SECTION HINGE CONFIGURATION:  
WITH AND WITHOUT GULLWING APPLICATION

"WITHOUT GULLWING" APPLICATION: INSTALL THE FASTENER COMPONENTS SHOWN BELOW TO ACHIEVE LEVEL/PARALLEL RELATIONSHIP BETWEEN CENTER SECTION AND THE WINGS (DETAIL B).

"WITH GULLWING" APPLICATION: CUSTOMER CAN REMOVE THE FASTENER COMPONENTS SHOWN BELOW, WHICH WILL ALLOW THE TOOLBAR TO ARTICULATE DOWNWARD.

NOTE: ALL LIQUID APPLICATORS WILL BE SHIPPED WITH THE HARDWARE INSTALLED AS SHOWN BELOW, CUSTOMER TO REMOVE HARDWARE AT THEIR DISCRETION (GULLWING APPLICATION ONLY).



|            |               |            |
|------------|---------------|------------|
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| CHECKED BY |               |            |
| PRINT DATE | 5/7/2025      |            |
| CONFIG.    | Default       |            |
| COMMENTS:  |               |            |

|                                                                                                           |                             |                 |
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| <br>www.DaltonAg.com |                             |                 |
| DWG: CENTER SECTION HINGE CONFIGURATIONS                                                                  |                             |                 |
| SIZE<br><b>A</b>                                                                                          | SHEET TITLE:<br>SINGLE RANK | REV<br><b>A</b> |
| SCALE: 1:192                                                                                              |                             | SHEET 2 OF 2    |

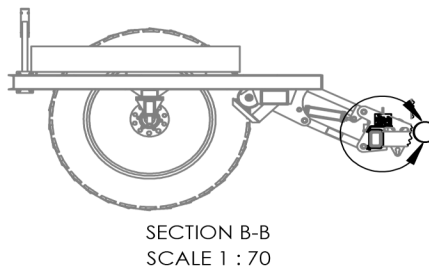
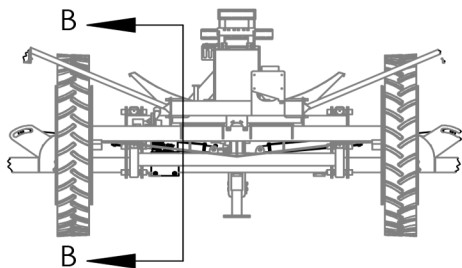
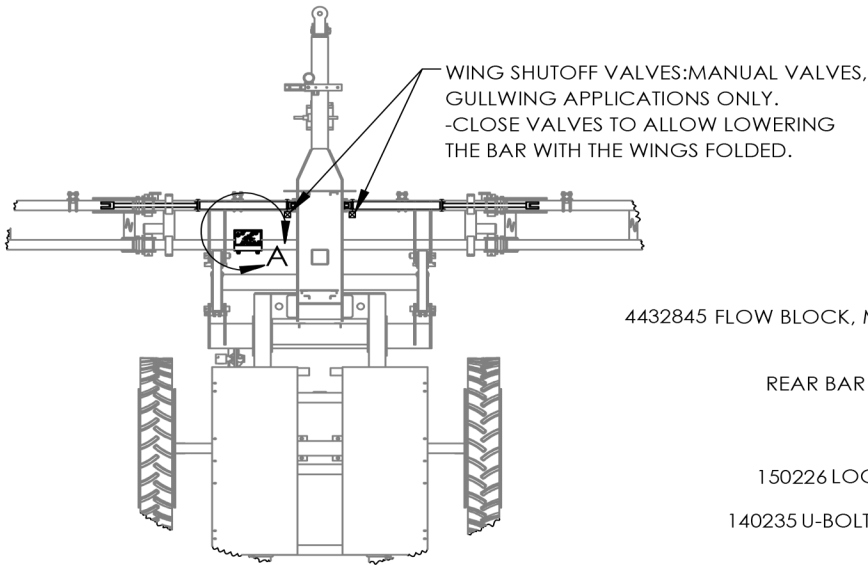
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# GULLWING MOUNT AND HARDWARE

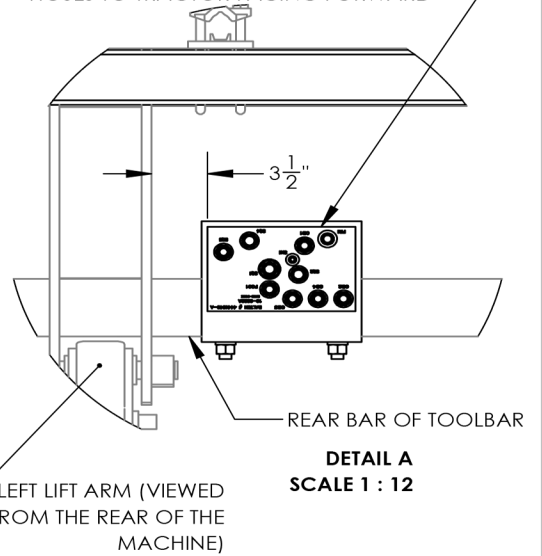
NOTE: GULL WING HYDRAULIC CONTROL BLOCK SHOWN WITHOUT VALVES AND FITTINGS

| PORT LABEL | DESCRIPTION                                    | NOTES                              |
|------------|------------------------------------------------|------------------------------------|
| P-IB       | SCV-1 PRESSURE                                 | TO TRACTOR                         |
| P-T        | SCV-1 RETURN                                   | TO TRACTOR                         |
| P-OB       | SCV-2 PRESSURE                                 | TO TRACTOR                         |
| P-FF       | SCV-2 RETURN                                   | TO TRACTOR                         |
| TANK       | UNRESTRICTED CASE DRAIN OR SCV-3 IN FLOAT MODE | TO TRACTOR                         |
| TL-RR      | TOOLBAR LIFT RIGHT ROD                         |                                    |
| TL-RB      | TOOLBAR LIFT RIGHT BASE                        |                                    |
| TL-LR      | TOOLBAR LIFT LEFT ROD                          |                                    |
| TL-LB      | TOOLBAR LIFT LEFT BASE                         |                                    |
| IB-RR      | INBOARD RIGHT ROD                              |                                    |
| IB-RB      | INBOARD RIGHT BASE                             |                                    |
| IB-LR      | INBOARD LEFT ROD                               |                                    |
| IB-LB      | INBOARD LEFT BASE                              |                                    |
| OB-RR      | OUTBOARD RIGHT ROD                             | PLUGGED IF NO OUTBOARD CYLINDERS   |
| OB-RB      | OUTBOARD RIGHT BASE                            | PLUGGED IF NO OUTBOARD CYLINDERS   |
| OB-LR      | OUTBOARD LEFT ROD                              | PLUGGED IF NO OUTBOARD CYLINDERS   |
| OB-LB      | OUTBOARD LEFT BASE                             | PLUGGED IF NO OUTBOARD CYLINDERS   |
| FF-RR      | FRONT FOLD RIGHT ROD                           | PLUGGED IF NO FRONT FOLD CYLINDERS |
| FF-RB      | FRONT FOLD RIGHT BASE                          | PLUGGED IF NO FRONT FOLD CYLINDERS |
| FF-LR      | FRONT FOLD LEFT ROD                            | PLUGGED IF NO FRONT FOLD CYLINDERS |
| FF-LB      | FRONT FOLD LEFT BASE                           | PLUGGED IF NO FRONT FOLD CYLINDERS |



SECTION B-B  
SCALE 1 : 70

MOUNTING ORIENTATION: PORTS FOR HYDR. HOSES TO TRACTOR FACING FORWARD



DETAIL A  
SCALE 1 : 12

4441549-3 FLOW BLOCK, GULL WING, DLQ

4432845 FLOW BLOCK, MOUNT PLATE, BOLT-ON

REAR BAR OF TOOLBAR

150013 NUT, .75 NC

150226 LOCK WASHER, .75 PLTD

140235 U-BOLT, 6 X 5.5625 X .75NC

DETAIL C  
SCALE 1 : 12

|            |           |            |
|------------|-----------|------------|
| DRAWN BY   | --        | 12/22/2022 |
| CHECKED BY |           |            |
| PRINT DATE | 6/30/2026 |            |
| CONFIG.    | Default   |            |
| COMMENTS:  |           |            |



DWG: DLQ GULLWING MOUNT AND HARDWARE

|                  |                        |                 |
|------------------|------------------------|-----------------|
| SIZE<br><b>A</b> | SHEET TITLE:<br>Sheet1 | REV<br><b>A</b> |
| SCALE: 1:192     | SHEET 1 OF 2           |                 |

FOR PARTS, CALL 1.800.342.7498

## OPERATING INSTRUCTIONS

### GULL WING OPERATING INSTRUCTIONS

\*FOR THE PASSIVE DOWNFORCE TO BE ACTIVATED THE SCV'S NEED TO BE IN THE REQUIRED POSITIONS.

\*FAILURE TO PROPERLY SET THE SCVS WILL ACTIVATE THE SYSTEM AT FULL PRESSURE AND MAY DAMAGE THE INBOARD CYLINDERS OR THE MACHINE MAY NOT OPERATE AS INTENDED.

\*RECOMMENDED HYDRAULIC FLOW FOR SCV #1 AND SCV#2 IS 4-6 GPM. MORE FLOW WILL CAUSE THE CYLINDERS TO ACTIVATE TOO FAST AND MAY CAUSE DAMAGE TO THE MACHINE.

#### HOSE CONNECTIONS:

| <u>FLOW BLOCK PORT</u> | <u>SCV</u>                                     |
|------------------------|------------------------------------------------|
| P-IB                   | SCV-1 PRESSURE                                 |
| P-T                    | SCV-1 RETURN                                   |
| P-OB                   | SCV-2 PRESSURE                                 |
| P-FF                   | SCV-2 RETURN                                   |
| T                      | UNRESTRICTED CASE DRAIN OR SCV-3 IN FLOAT MODE |

#### TO ACTIVATE THE PASSIVE DOWNFORCE FUNCTION:

- SCV-1 NEEDS TO BE IN THE FLOAT POSITION.
- SCV-2 PRESSURE NEEDS TO BE IN DETENT OR CONSTANT FLOW

\*\*\*FAILURE TO HAVE SCV-1, SCV-2, AND SCV-3/CASE DRAIN IN THE PROPER SETTINGS DURING OPERATION MAY DAMAGE THE INBOARD CYLINDERS AND CAUSE THE MACHINE TO NOT OPERATE PROPERLY.

NOTE: IN GULLWING APPLICATIONS, CLOSE THE MANUAL VALVES ON THE INBOARD WING CYLINDERS TO ALLOW THE LOWERING OF THE BAR WITHOUT UNFOLDING THE WINGS.

### GULL WING DOWNPRESSURE CALIBRATION INSTRUCTIONS

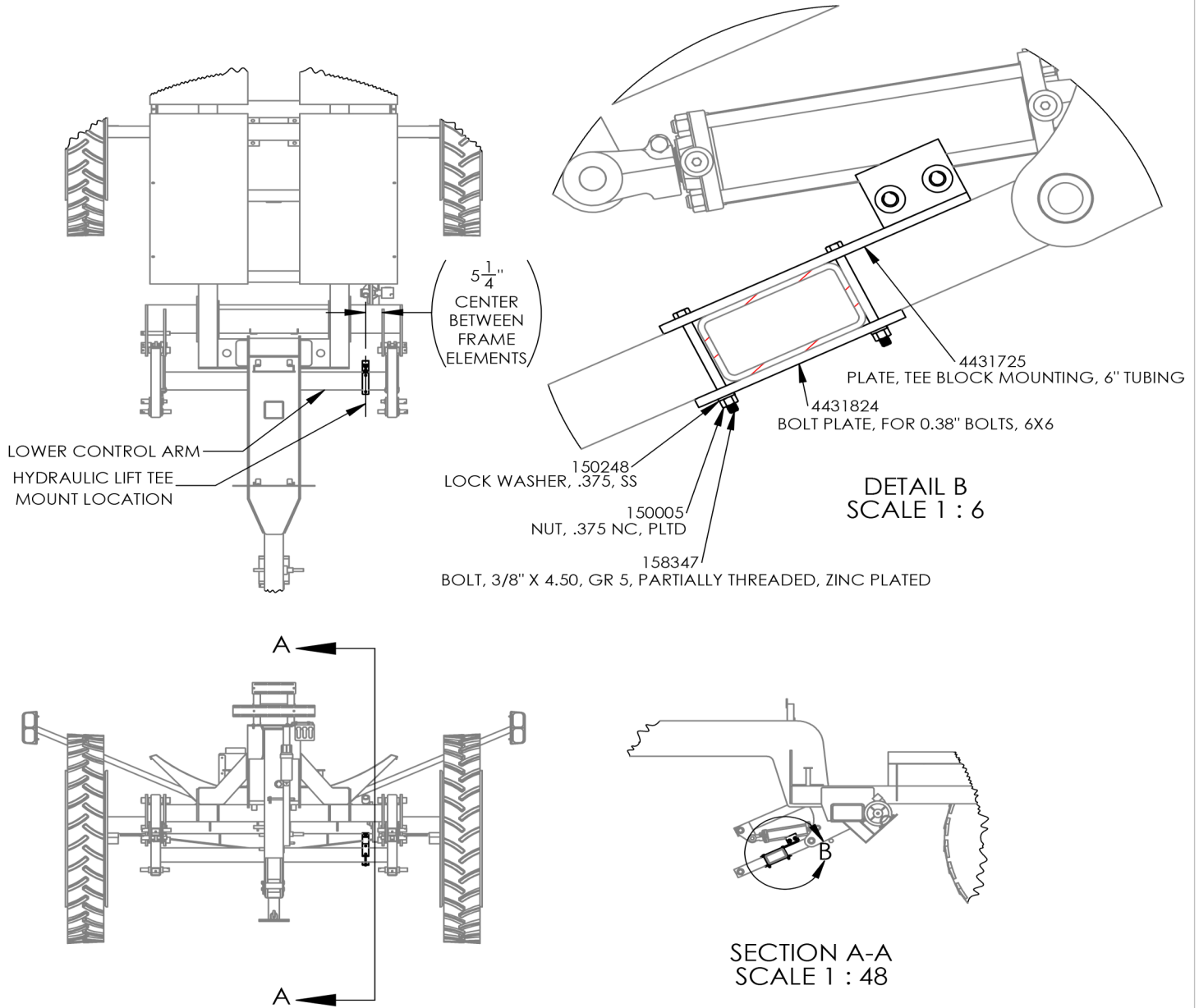
NOTE: THIS PROCEDURE IS ONLY REQUIRED IF YOU PURCHASE THE GULL WING FUNCTION AS AN UPGRADE TO AN EXISTING MACHINE OR YOU ARE DOING A FIELD REPLACEMENT OF THE FLOW BLOCK. ANY FLOW BLOCK THAT IS SHIPPED FROM DALTON AG INSTALLED ON A LIQUID APPLICATOR TOOLBAR WILL BE CALIBRATED AT DALTON AG PRIOR TO SHIPPING.

\*FOR THE DOWNPRESSURE FUNCTION TO OPERATE PROPERLY, THE HYDRAULIC SYSTEM MUST BE CALIBRATED TO OPERATE AT 500 PSI WHILE THE DOWNPRESSURE FUNCTION IS ACTIVATED. INCORRECT CALIBRATION COULD RESULT IN LOSS/REDUCED FUNCTIONALITY OR DAMAGE TO THE MACHINE.

1. UNIT NEEDS TO BE IN FIELD READY POSITION.
2. ATTACH A PRESSURE GAUGE AT PORT GBW. REQUIRES A -4 37° JIC FLARE FITTING.
3. SET SCV-1 IN 'FLOAT'.
4. SET SCV-2 IN 'DETENT' FOR CONSTANT FLOW.
5. ADJUST PRESSURE REDUCING/RELIEVING VALVE PRH081S-30N, LOCATED ON TOP OF THE MANIFOLD AT PORT 'PR1', TO 500 PSI READOUT ON THE PRESSURE GAUGE. REMEMBER TO LOCK THE VALVE WHEN FINISHED SO IT DOES NOT LOSE IT'S CALIBRATION.

|                                                                                                                                                                                                                       |            |               |            |                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------|------------|-----------------------------------------------------------------------------------------------------------|
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|                                                                                                                                                                                                                       | PRINT DATE | 6/30/2026     |            |                                                                                                           |
|                                                                                                                                                                                                                       | CONFIG.    | Default       |            |                                                                                                           |
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|                                                                                                                                                                                                                       |            |               |            | SIZE <b>A</b> SHEET TITLE: Sheet2 REV <b>A</b>                                                            |
| FOR PARTS, CALL 1.800.342.7498                                                                                                                                                                                        |            |               |            | SCALE: 1:192 SHEET 2 OF 2                                                                                 |

# HYDRAULIC LIFT TEE MOUNT HARDWARE AND INSTALLATION



|            |          |          |
|------------|----------|----------|
| DRAWN BY   | --       | 6/2/2014 |
| CHECKED BY |          |          |
| PRINT DATE | 5/7/2025 |          |
| CONFIG.    | Default  |          |
| COMMENTS:  |          |          |



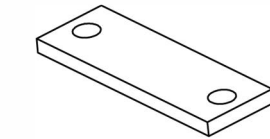
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DWG: DLQ LIFT TEE MOUNT HARDWARE AND  
INSTALLATION

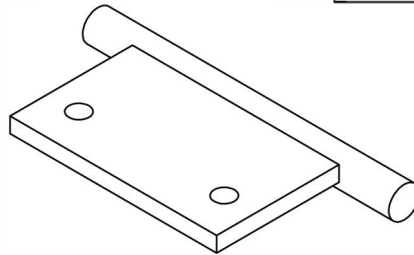
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|------------------|------------------------|-----------------|
| SIZE<br><b>A</b> | SHEET TITLE:<br>Sheet1 | REV<br><b>A</b> |
| SCALE: 1:96      | SHEET 1 OF 1           |                 |

**FOR PARTS, CALL 1.800.342.7498**

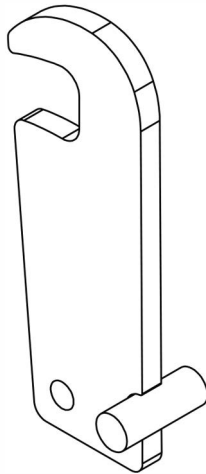
# DLQ WING LOCK



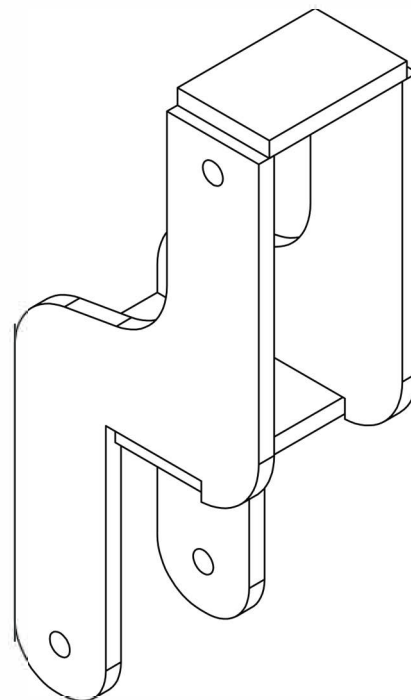
**TB 4435227 BOLT PLATE, WING LOCK HOOK**



**TB 4420425 WING LOCK HOOK, WELDMENT**



**4420945 WING LATCH**



**4420943 TB WING LOCK, 4x6, OFFSET BASE**

|            |               |           |
|------------|---------------|-----------|
| DRAWN BY   | RICH SMOTHERS | 1/25/2012 |
| CHECKED BY |               |           |
| PRINT DATE | 12/16/2022    |           |
| CONFIG.    | Default       |           |
| COMMENTS:  |               |           |



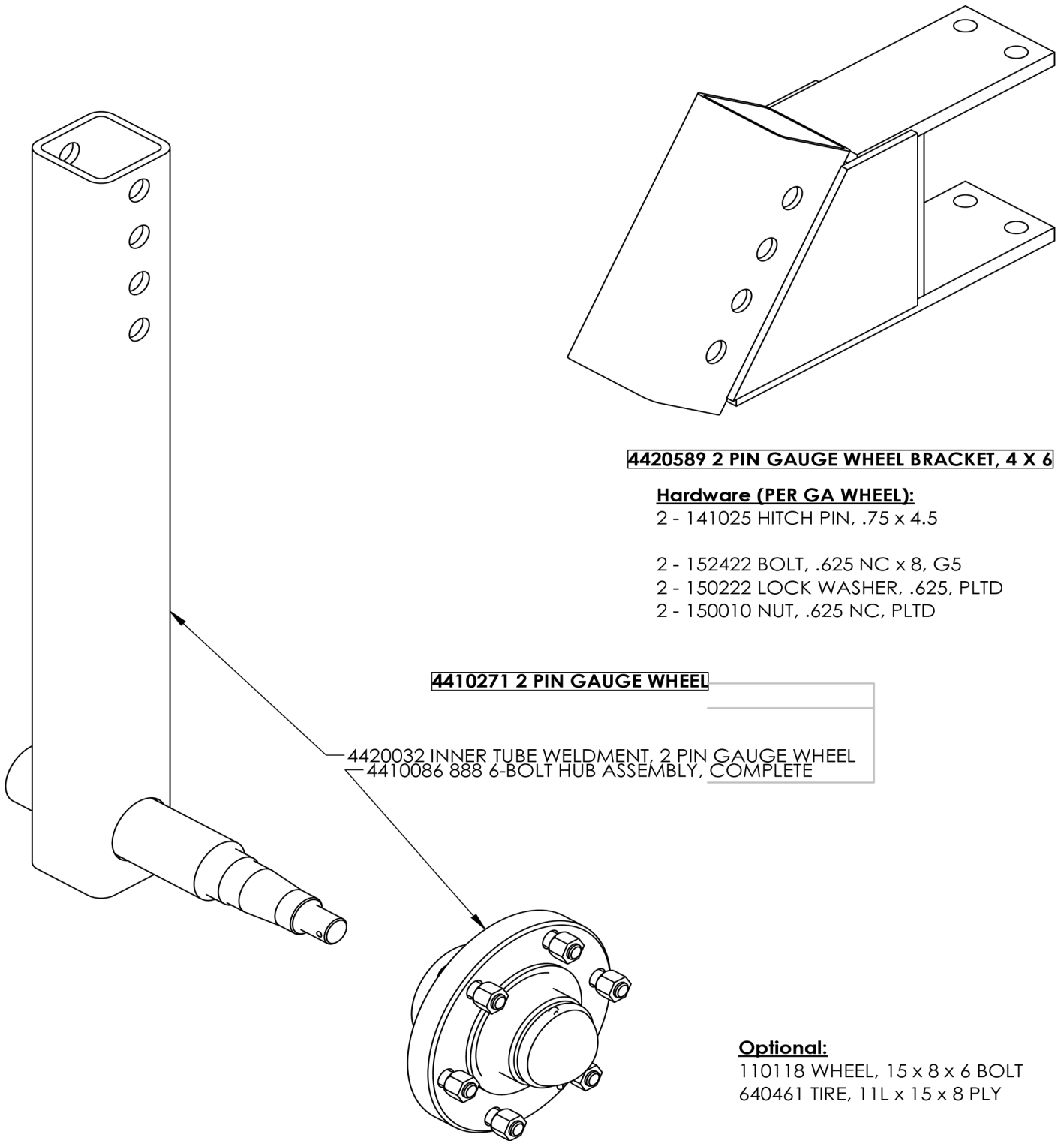
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DWG: DLQ WING LOCK-2022

|                  |                        |                 |
|------------------|------------------------|-----------------|
| SIZE<br><b>A</b> | SHEET TITLE:<br>Sheet1 | REV<br><b>A</b> |
|------------------|------------------------|-----------------|

SCALE: 1:4 SHEET 1 OF 1

## 2 PIN GAUGE WHEEL



|            |               |           |
|------------|---------------|-----------|
| DRAWN BY   | RICH SMOTHERS | 1/21/2014 |
| CHECKED BY |               |           |
| PRINT DATE | 11/9/2023     |           |
| CONFIG.    | Default       |           |



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COMMENTS:

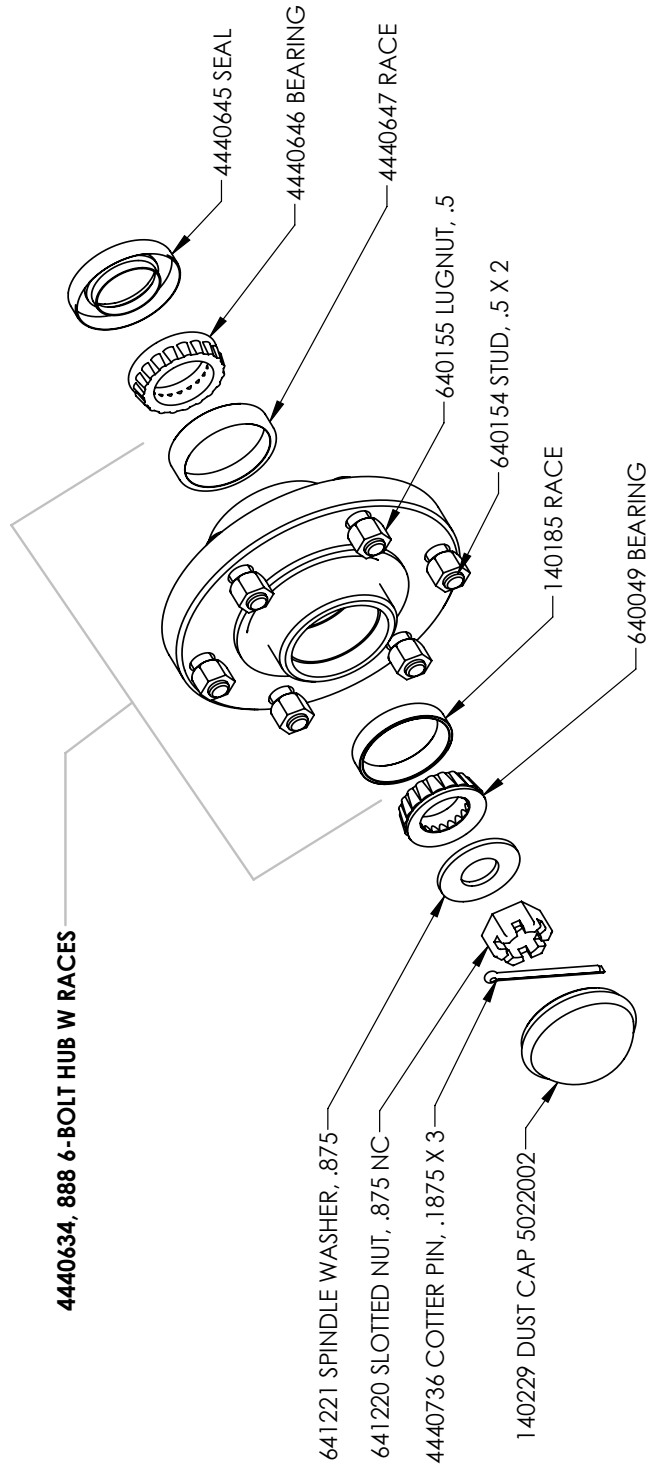
DWG: 2 PIN GAUGE WHEEL WITH BRACKET

|                  |                        |                 |
|------------------|------------------------|-----------------|
| SIZE<br><b>A</b> | SHEET TITLE:<br>Sheet1 | REV<br><b>A</b> |
|------------------|------------------------|-----------------|

**FOR PARTS, CALL 1.800.342.7498**

SCALE: 1:4 SHEET 1 OF 1

**4440634, 888 6-BOLT HUB W RACES**

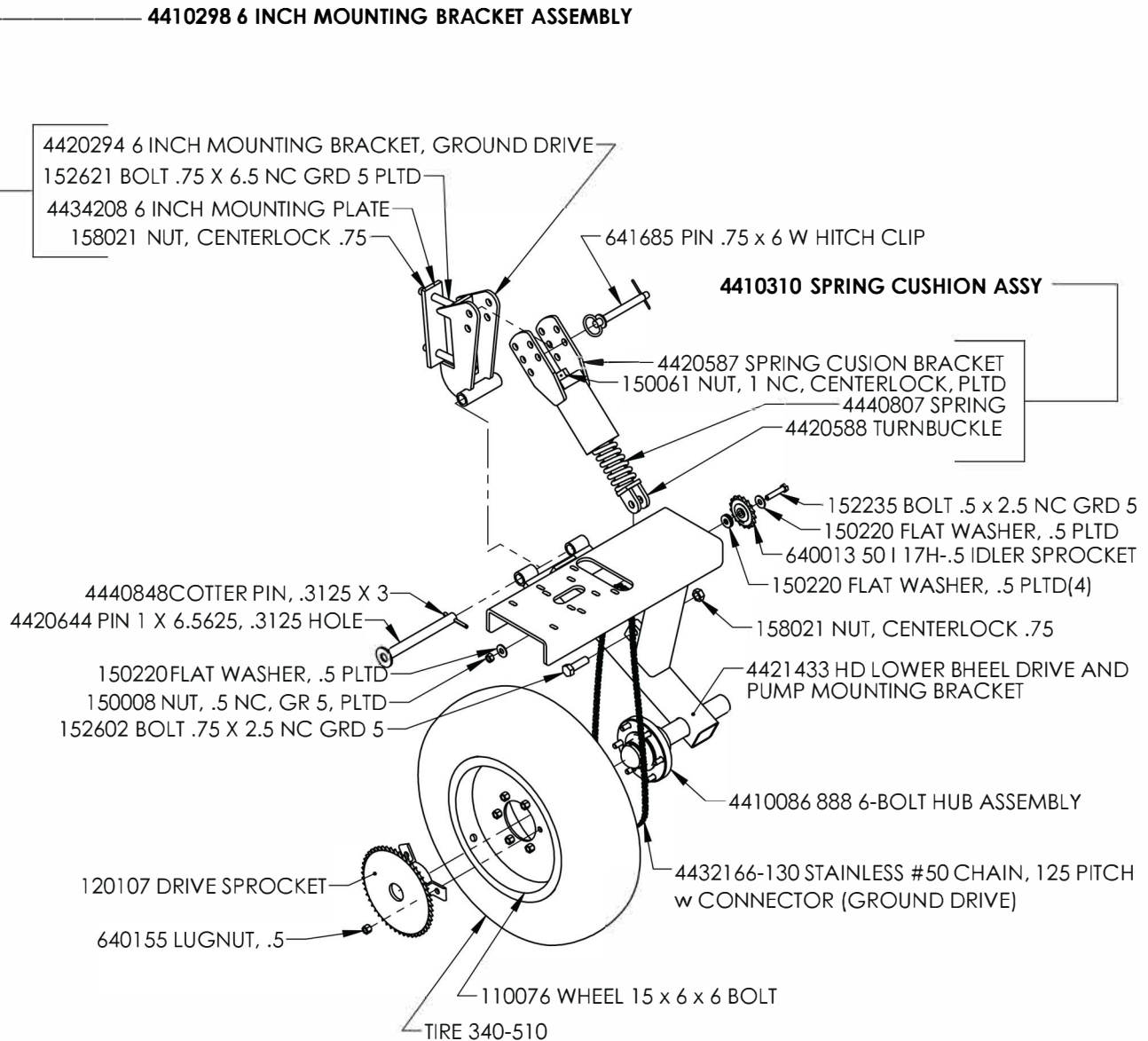


**4410086 888 6-BOLT HUB ASSEMBLY, COMPLETE**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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# GROUND DRIVE ASSEMBLY



## 4410740 HD GROUND DRIVE ASSEMBLY, LESS PUMP WITH LUG TIRE

|            |               |           |
|------------|---------------|-----------|
| DRAWN BY   | Jeremy Newton | 5/21/2014 |
| CHECKED BY |               |           |
| PRINT DATE | 12/16/2022    |           |
| CONFIG.    | EXPLODED      |           |
| COMMENTS:  |               |           |



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DWG: GROUND DRIVE ASSEMBLY, LESS PUMP WITH LUG TIRE

|      |              |     |
|------|--------------|-----|
| SIZE | SHEET TITLE: | REV |
| A    | Sheet1       | A   |

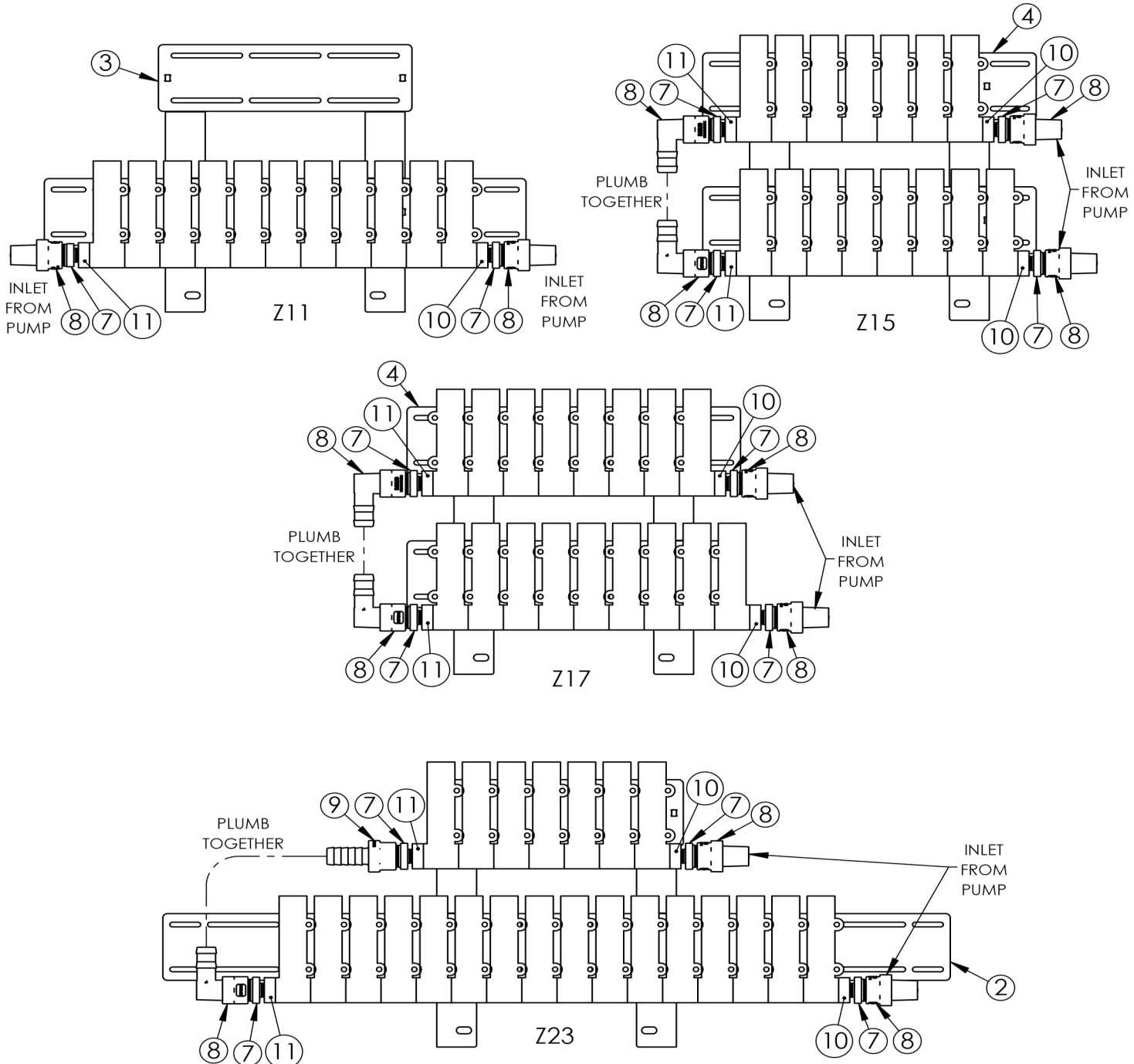
FOR PARTS, CALL 1.800.342.7498

SCALE: 1:32 SHEET 1 OF 1



# VISA FLOW LAYOUTS

## GAGE LAYOUTS FOR GROUND DRIVE CONFIGURATIONS (JOHN BLUE PUMPS)



|            |               |            |
|------------|---------------|------------|
| DRAWN BY   | RICH SMOTHERS | 12/20/2024 |
| CHECKED BY |               |            |
| PRINT DATE | 1/13/2025     |            |
| CONFIG.    | Z11           |            |
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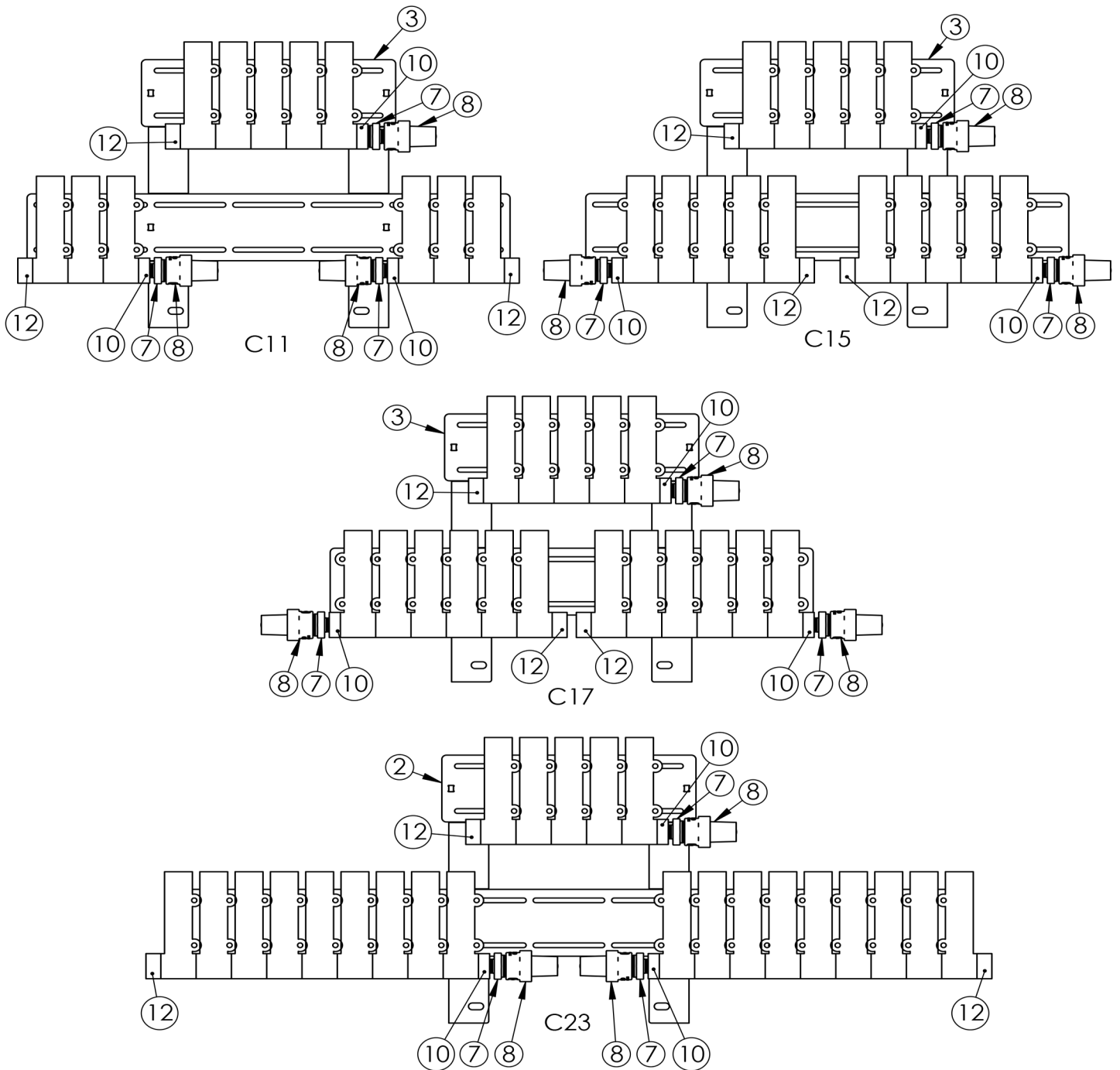


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|------------|-----------------|-------------------|-----|
| DWG:       |                 | VISA FLOW LAYOUTS |     |
| SIZE       | SHEET TITLE:    |                   | REV |
| A          | JOHN BLUE PUMPS |                   | A   |
| SCALE: 1:8 |                 | SHEET 1 OF 4      |     |

**FOR PARTS, CALL 1.800.342.7498**

## VISA FLOW LAYOUTS CONT.

### GAGE LAYOUTS FOR RAVEN CONTROLLER AND THREE (3) SHUTOFFS



|            |     |            |
|------------|-----|------------|
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| PRINT DATE |     | 1/13/2025  |
| CONFIG.    | Z11 |            |
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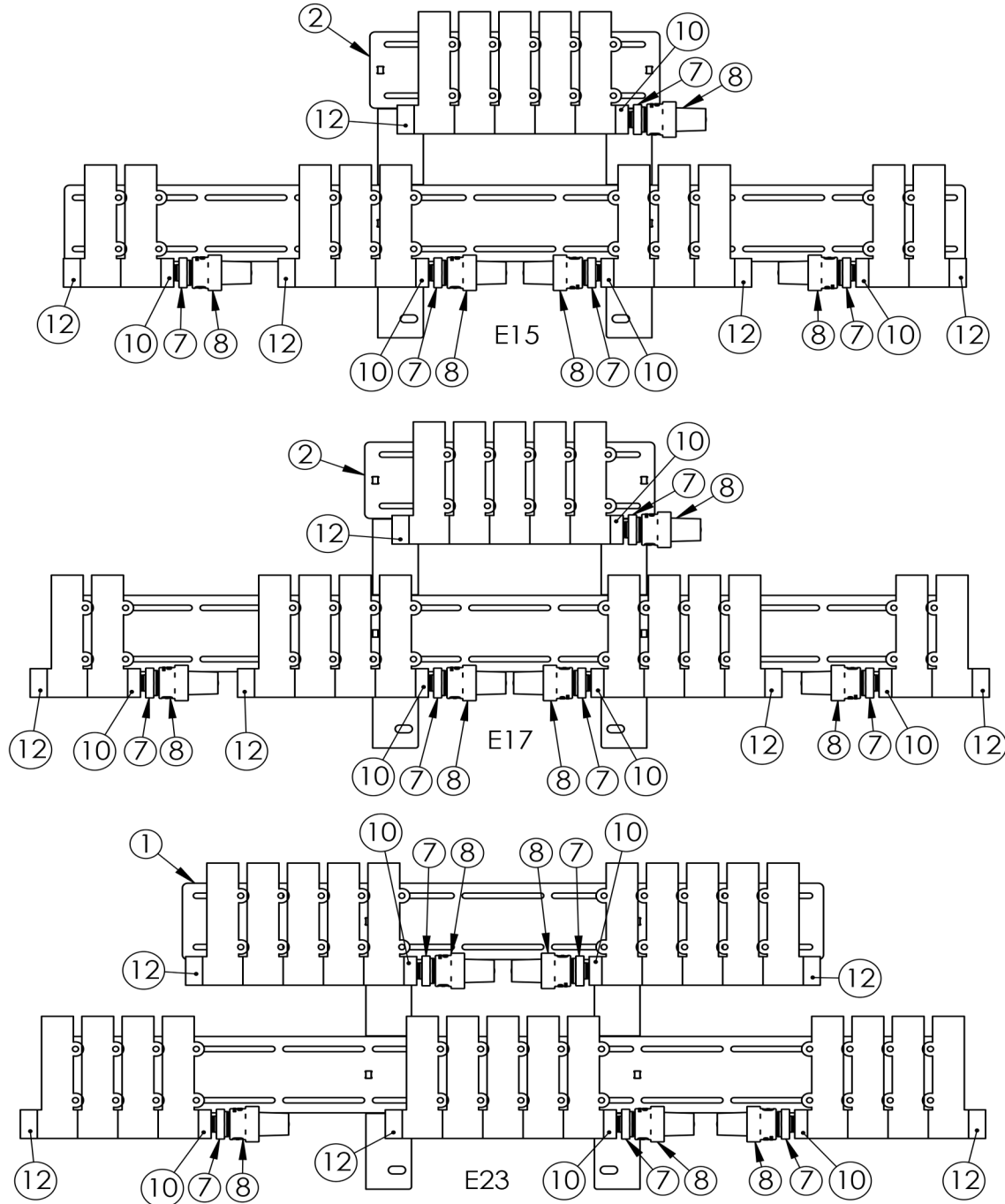


DWG: VISA FLOW LAYOUTS

|            |              |          |
|------------|--------------|----------|
| SIZE       | SHEET TITLE: | REV      |
| <b>A</b>   | 3 SHUTOFFS   | <b>A</b> |
| SCALE: 1:8 | SHEET 2 OF 4 |          |

## VISA FLOW LAYOUTS CONT.

### GAGE LAYOUTS FOR RAVEN CONTROLLER AND FIVE (5) SHUTOFFS



|            |               |            |
|------------|---------------|------------|
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| PRINT DATE | 1/13/2025     |            |
| CONFIG.    | Z11           |            |
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DWG: VISA FLOW LAYOUTS

|                  |                            |                 |
|------------------|----------------------------|-----------------|
| SIZE<br><b>A</b> | SHEET TITLE:<br>5 SHUTOFFS | REV<br><b>A</b> |
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**FOR PARTS, CALL 1.800.342.7498**

SCALE: 1:12 SHEET 3 OF 4

## VISA FLOW LAYOUTS CONT.

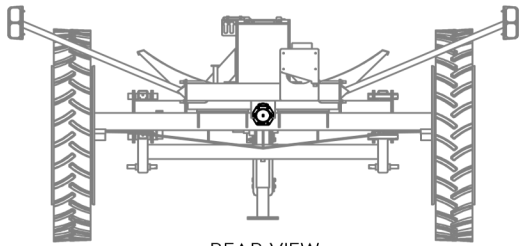
|        |    | (SMSS4/SMSS1) - (GAGE BANK CONFIG.)      |       |             |       |                  | KNIVES/SECTION |
|--------|----|------------------------------------------|-------|-------------|-------|------------------|----------------|
| # ROWS | 11 | 2/3 - 11                                 |       | 1/7 - 3/5/3 |       |                  | 3/5/3          |
|        | 13 |                                          |       |             |       |                  |                |
|        | 15 | 3/3 - 8/7                                |       | 3/3 - 5/5/5 |       | 1/11 - 2/3/5/3/2 | 2/3/5/3/2      |
|        | 17 | 4/1 - 9/8                                |       | 3/5 - 6/5/6 |       | 3/5 - 2/4/5/4/2  | 2/4/5/4/2      |
|        | 23 | 5/3 - 16/7                               |       | 5/3 - 9/5/9 |       | 5/3 - 5/4/5/4/5  | 2/3/4/5/4/3/2  |
|        |    | 1 (Z)                                    | 2 (B) | 3 (C)       | 4 (D) | 5 (E)            |                |
|        |    | # SHUTOFFS                               |       |             |       |                  |                |
|        |    | ↑                                        |       |             |       |                  |                |
|        |    | JOHN BLUE ONLY<br>(2 HOSES FROM<br>PUMP) |       |             |       |                  |                |

| ITEM NO. | PART NUMBER | DESCRIPTION                                                             |
|----------|-------------|-------------------------------------------------------------------------|
| 1        | 4421296     | DLQ FLOW MONITOR PANEL, 3                                               |
| 2        | 4421946     | DLQ FLOW MONITOR PANEL, 4                                               |
| 3        | 4420840     | DLQ FLOW MONITOR PANEL, 1                                               |
| 4        | 4420841     | DLQ FLOW MONITOR PANEL, 2                                               |
| 5        | SMSS4       | MONITOR ASSMY., VISA GAUGE II, FOR VISUAL FLOW                          |
| 6        | SMSS1       | SINGLE MONITOR ASSEMBLY - SPRAY TYPE                                    |
| 7        | RN100-050   | 1" X 1/2" POLY REDUCING NIPPLE                                          |
| 8        | HBF100-90   | 1" 90° FEMALE NPT X 1" HOSE BARB                                        |
| 9        | HBF100      | 1" FEMALE THREAD X 1" HOSE SHANK                                        |
| 10       | SMPT-0004   | 1/2" FEMALE NPT ADAPTER (INLET), POLYPROPYLENE                          |
| 11       | SMPT-0061   | FLOW-THRU END CAP FOR SS STYLE, 1/2" FEMALE NPT (OUTLET), POLYPROPYLENE |
| 12       | SMPT-0008   | END CAP, POLYPROPYLENE                                                  |

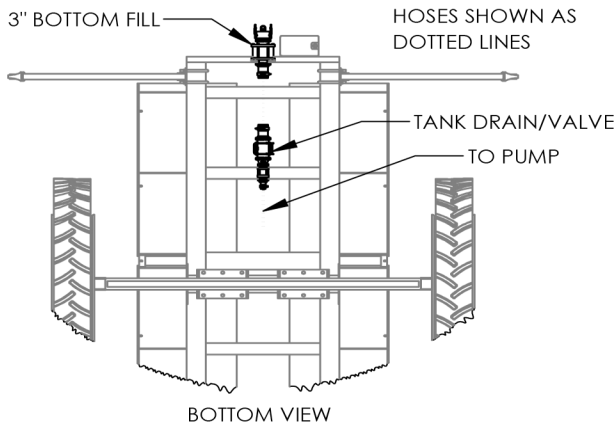
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|                                                                                                                                                                                                                       | PRINT DATE | 1/13/2025     |             |                                                                                                           |                   |
|                                                                                                                                                                                                                       | CONFIG.    | Z11           |             |                                                                                                           |                   |
|                                                                                                                                                                                                                       | COMMENTS:  |               |             | DWG:                                                                                                      | VISA FLOW LAYOUTS |
| <b>FOR PARTS, CALL 1.800.342.7498</b>                                                                                                                                                                                 |            |               | SIZE        | SHEET TITLE:                                                                                              | REV               |
|                                                                                                                                                                                                                       |            |               | <b>A</b>    | Sheet1                                                                                                    | <b>A</b>          |
|                                                                                                                                                                                                                       |            |               | SCALE: 1:12 | SHEET 4 OF 4                                                                                              |                   |

# TANK PLUMBING

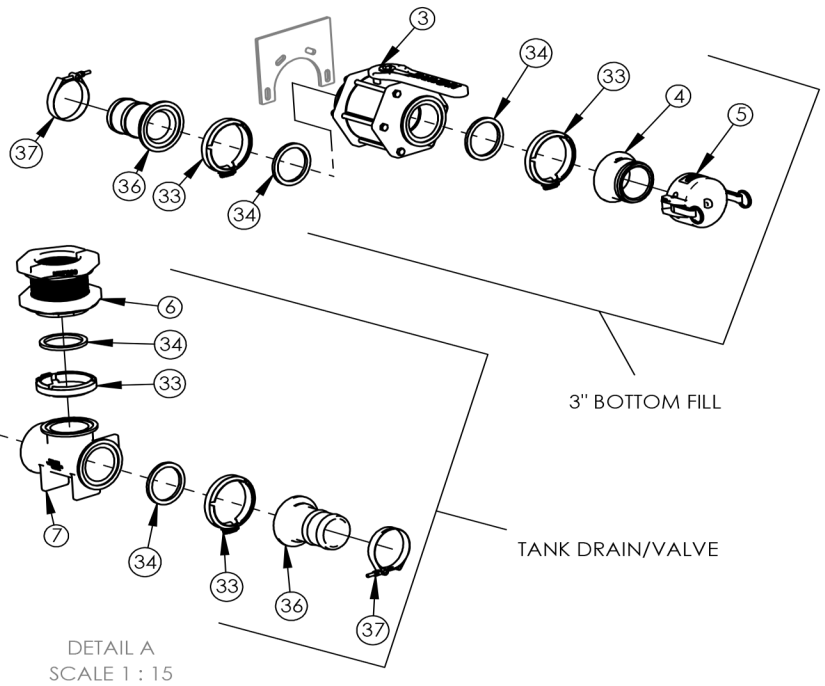
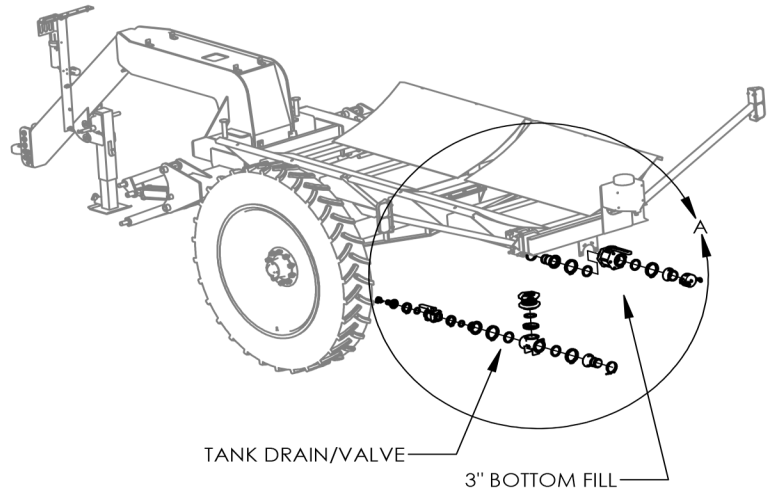
## TANK DRAIN/VALVE AND 3" BOTTOM FILL PLUMBING



REAR VIEW



BOTTOM VIEW



|            |                    |          |
|------------|--------------------|----------|
| DRAWN BY   | --                 | 6/2/2014 |
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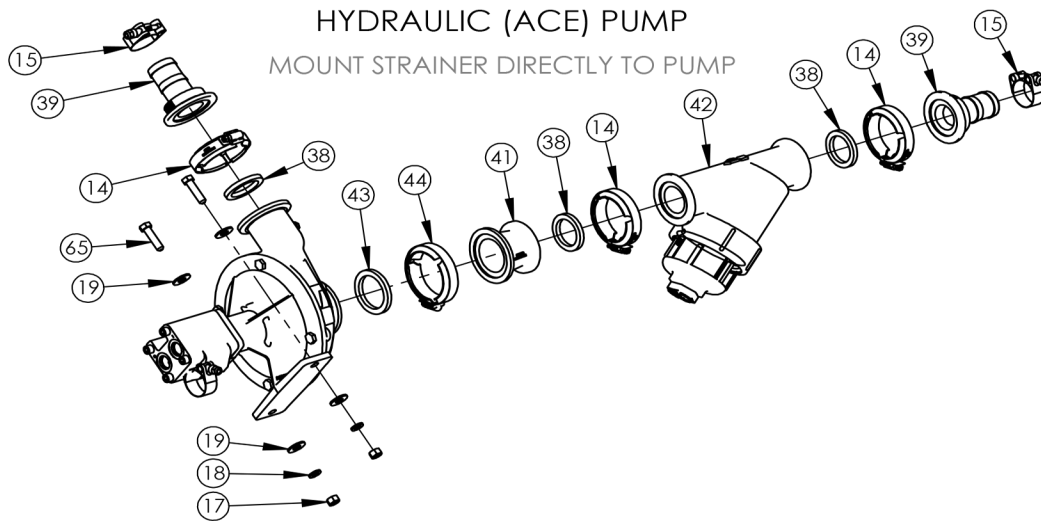
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| SIZE<br><b>A</b> | SHEET TITLE:<br>REAR TANK PLUMBING | REV<br><b>A</b> |
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SCALE: 1:128 SHEET 1 OF 7

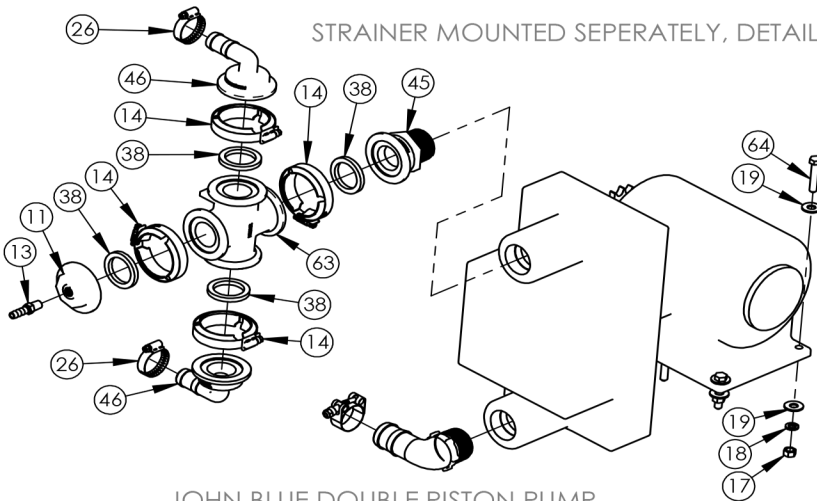
## TANK PLUMBING CONT.

### PUMP HOSE CONNECTION HARDWARE

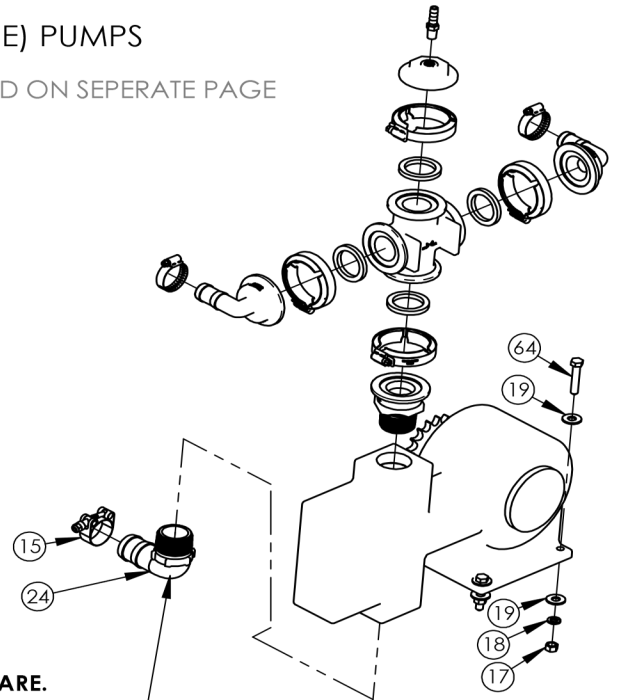


### GROUND DRIVE (JOHN BLUE) PUMPS

STRAINER MOUNTED SEPERATELY, DETAILED ON SEPERATE PAGE



JOHN BLUE DOUBLE PISTON PUMP



JOHN BLUE SINGLE PISTON PUMP

#### NOTES (JOHN BLUE PUMPS ONLY):

- BOTH JOHN BLUE PUMPS USE THE SAME HOSE CONNECTION HARDWARE.
- WHEN PLUMBING PUMP TO BOOM HOSE KIT, SET PUMPS UP AS SHOWN.
- WHEN PLUMBING PUMP TO SHUTOFFS, ALL PUMP PORTS USE THIS FITTING ONLY.

|            |                    |          |
|------------|--------------------|----------|
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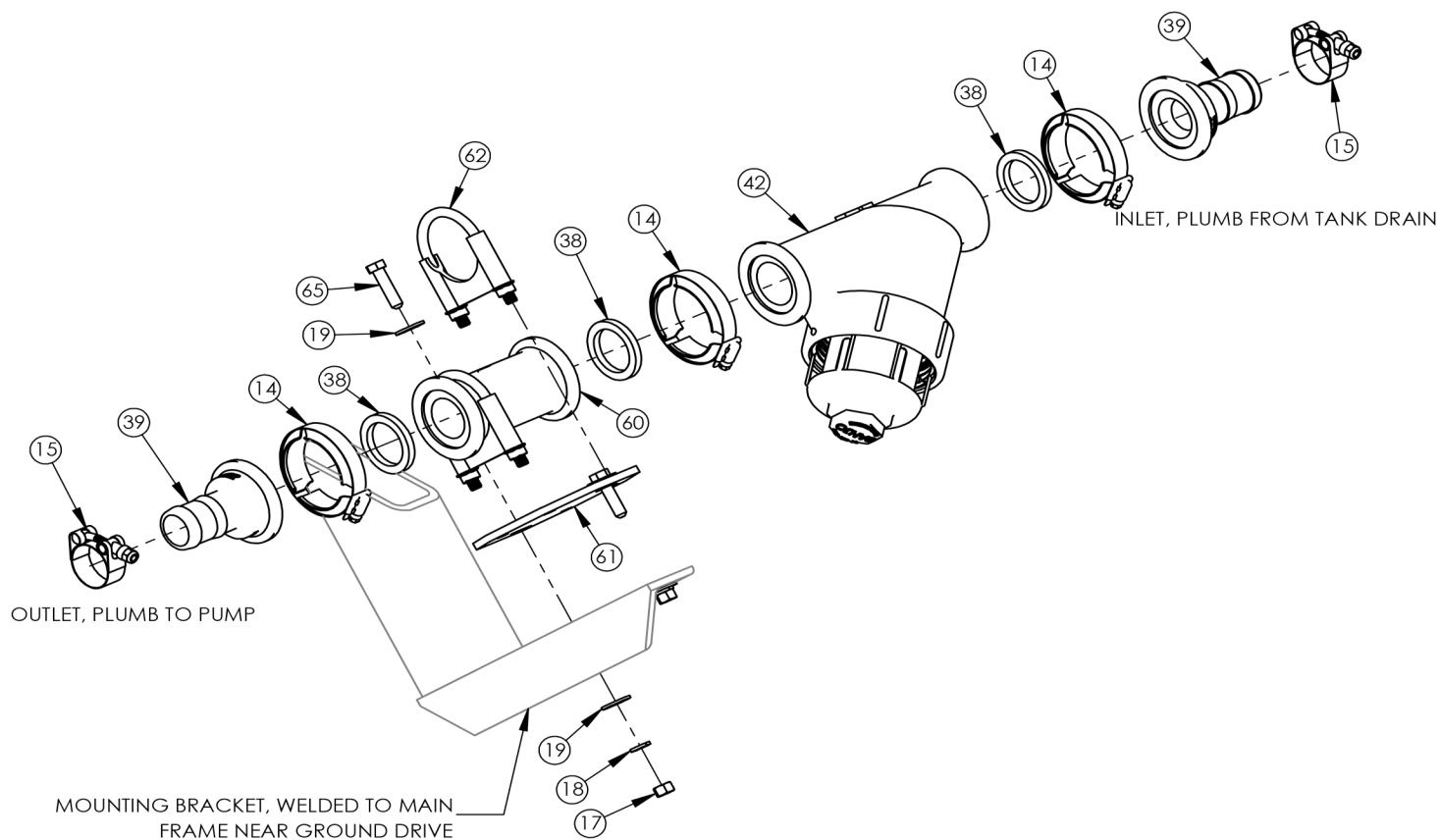
DWG: DLQ TANK PLUMBING

|                  |                                       |                 |
|------------------|---------------------------------------|-----------------|
| SIZE<br><b>A</b> | SHEET TITLE:<br>PUMP HOSE CONNECTIONS | REV<br><b>A</b> |
| SCALE: 1:192     | SHEET 2 OF 7                          |                 |

FOR PARTS, CALL 1.800.342.7498

## TANK PLUMBING CONT.

### STRAINER ASSEMBLY (JOHN BLUE PUMPS ONLY)



|            |                    |          |
|------------|--------------------|----------|
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|                  |                                |                 |
|------------------|--------------------------------|-----------------|
| SIZE<br><b>A</b> | SHEET TITLE:<br>STRAINER MOUNT | REV<br><b>A</b> |
|------------------|--------------------------------|-----------------|

**FOR PARTS, CALL 1.800.342.7498**

SCALE: 1:192 SHEET 3 OF 7

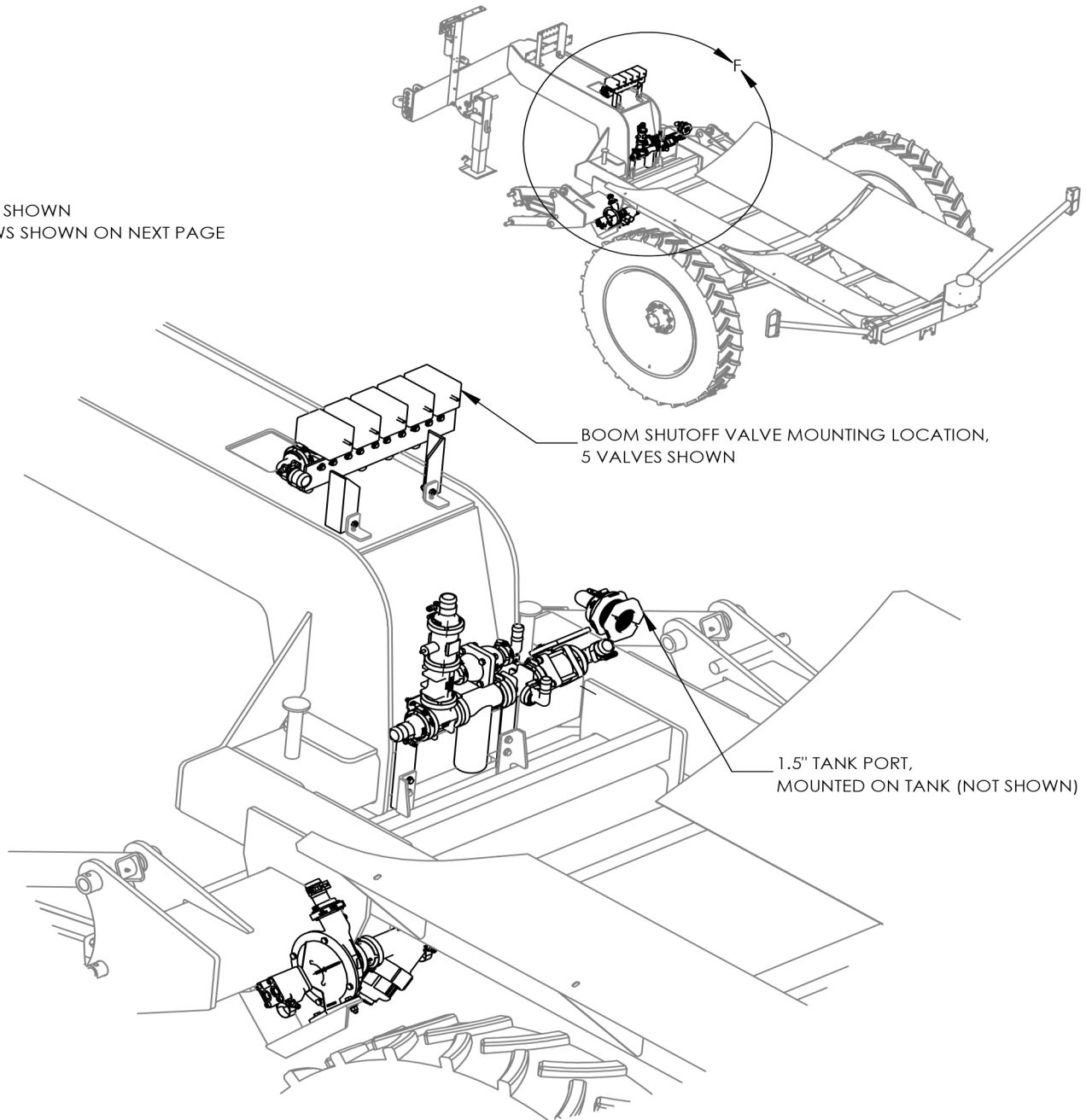


## TANK PLUMBING CONT.

### RAVEN FLOW KIT W/ ACE PUMP OPTION

**NOTES:**

- HOSES NOT SHOWN
- DETAIL VIEWS SHOWN ON NEXT PAGE



DETAIL F  
SCALE 1 : 15

|            |                    |          |
|------------|--------------------|----------|
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|                  |                                  |                 |
|------------------|----------------------------------|-----------------|
| SIZE<br><b>A</b> | SHEET TITLE:<br>RAVEN KIT LAYOUT | REV<br><b>A</b> |
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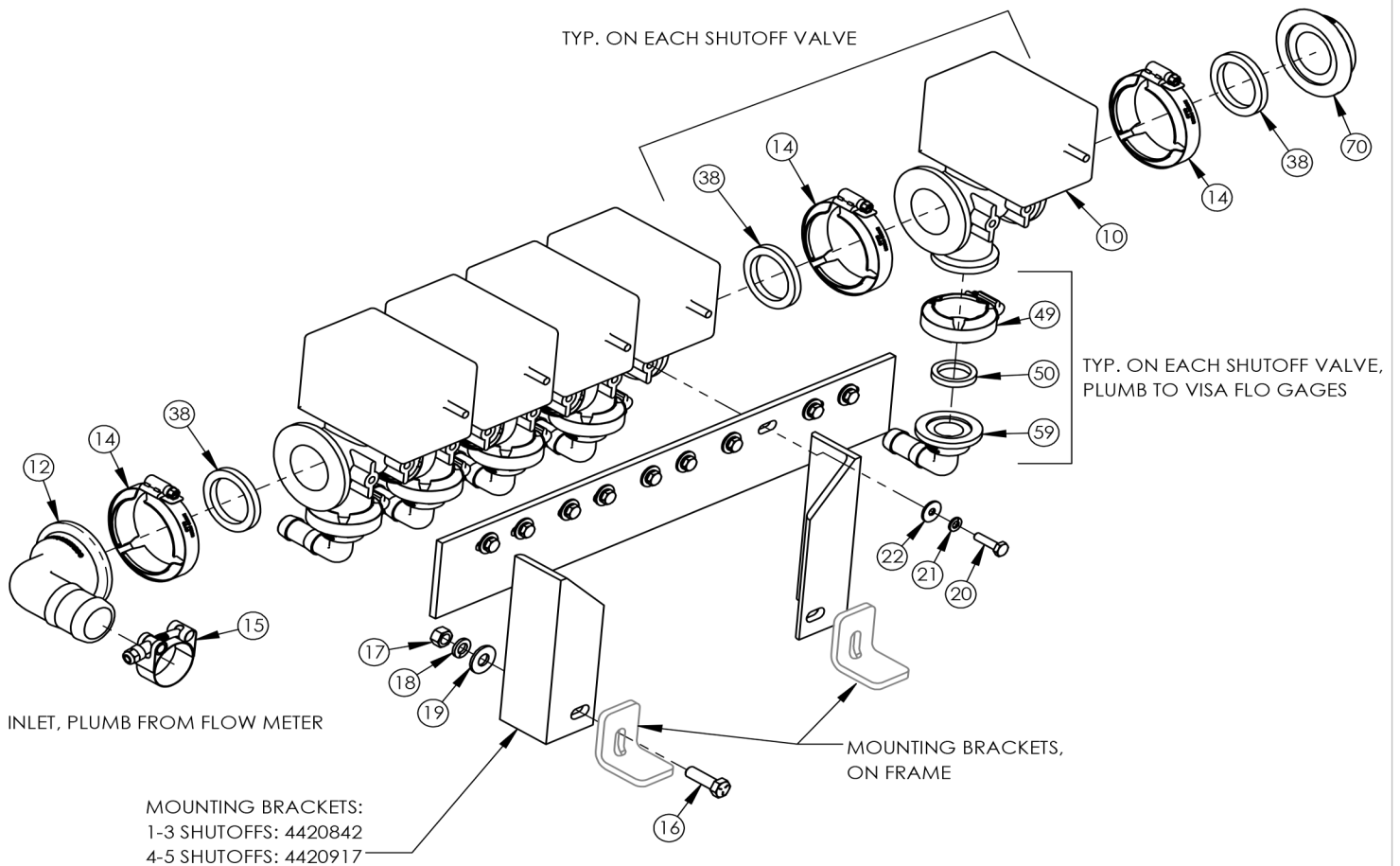
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SCALE: 1:128      SHEET 4 OF 7



## TANK PLUMBING CONT.

### RAVEN FLOW KIT W/ ACE PUMP OPTION SHUTOFF VALVES AND FLOW METER SUBASSEMBLIES



|            |                    |          |
|------------|--------------------|----------|
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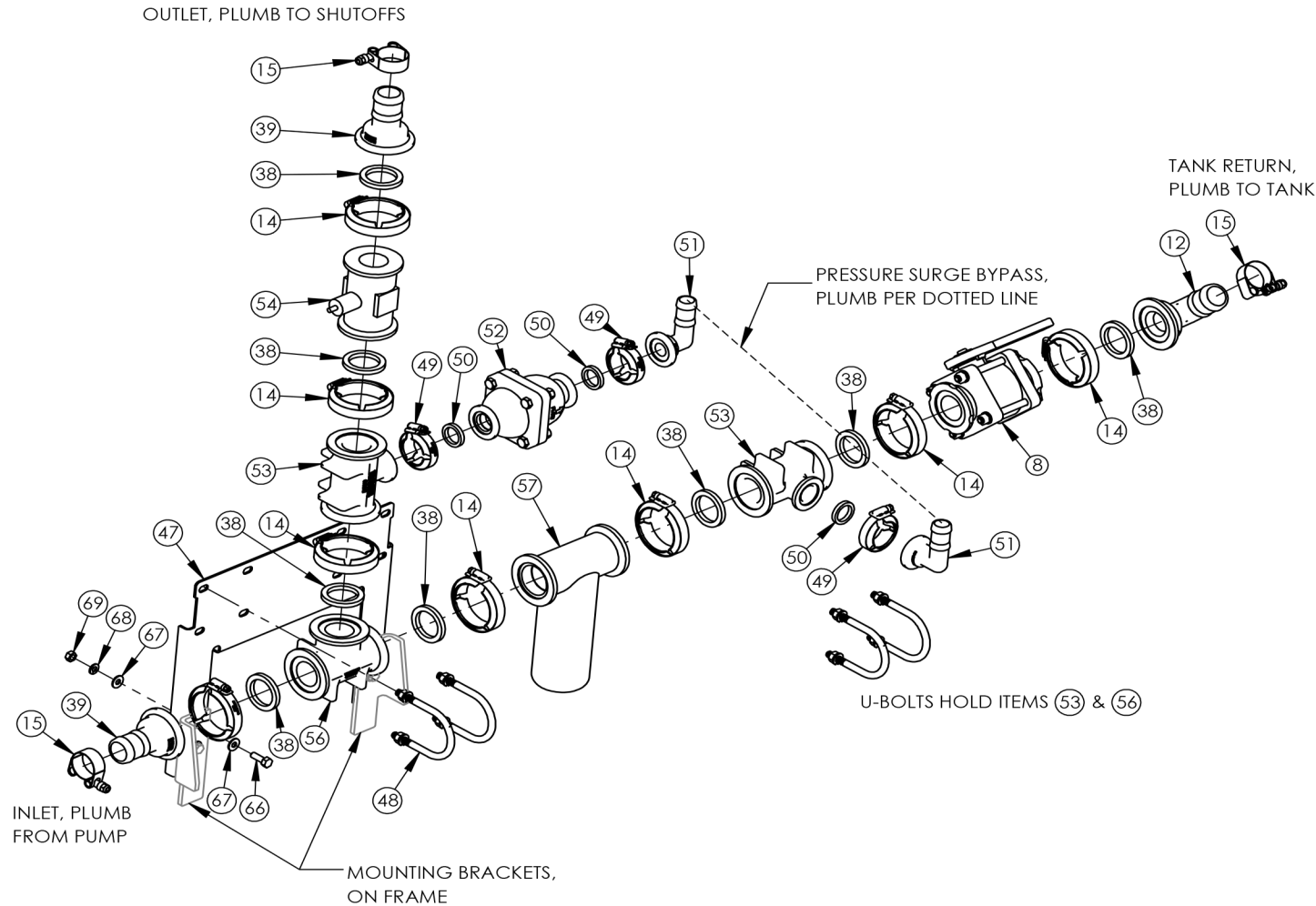
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| SIZE<br><b>A</b> | SHEET TITLE:<br>RAVEN KIT EXPLODED VIEWS | REV<br><b>A</b> |
|------------------|------------------------------------------|-----------------|

**FOR PARTS, CALL 1.800.342.7498**

SCALE: 1:128 SHEET 5 OF 7

TANK PLUMBING CONT.

RAVEN FLOW KIT W/ ACE PUMP OPTION  
TANK RECIRCULATION AND SHUTOFF SUBASSEMBLY



|            |                    |          |
|------------|--------------------|----------|
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|                  |                                              |                 |
|------------------|----------------------------------------------|-----------------|
| SIZE<br><b>A</b> | SHEET TITLE:<br>RAVEN KIT EXPLODED VIEWS - 2 | REV<br><b>A</b> |
|------------------|----------------------------------------------|-----------------|

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SCALE: 1:128 SHEET 6 OF 7

## TANK PLUMBING CONT.

### PLUMBING SYSTEM COMPONENTS LIST

| ITEM NO. | PART NUMBER     | DESCRIPTION                                                         | QTY |
|----------|-----------------|---------------------------------------------------------------------|-----|
| 1        | 4420842         | RAVEN VALVE MOUNT                                                   | 1   |
| 2        | 4420840         | DLQ FLOW MONITOR PANEL, 1                                           | 1   |
| 3        | MV300CF         | 3" x 3" FP MANIFOLD FLANGE BOLTED BALL VALVE                        | 1   |
| 4        | M300A           | 3 IN FP FLANGE X 3 IN CAM LOCK                                      | 1   |
| 5        | 300CAP          | 3" CAP X MALE ADAPTER POLY CAM LEVER COUPLER                        | 1   |
| 6        | MTF300BD        | 3" TANK FITTING WITH FLANGE, BOTTOM DRAIN                           | 1   |
| 7        | M300TEE         | 3 in. Flanged Tee                                                   | 1   |
| 8        | MV200CF         | 2 in. X 2 in. Manifold Flange Bolted Ball Valve FKM Seals           | 2   |
| 9        | 4420917         | RAVEN VALVE MOUNT                                                   | 1   |
| 10       | RV 063-0171-926 | VALVE SINGLE MANIFOLD                                               | 5   |
| 11       | M200PLG025      | 2" MANIFOLD PLUG W/ 1/4" FPT                                        | 2   |
| 12       | M200-150BRB90   | 2" MANIFOLD FITTING, 1-1/2" HOSE BARB 90 DEGREE                     | 2   |
| 13       | 4440967         | 1/4" MPT X 3/8" HOSE BARB, STAINLESS FITTING                        | 2   |
| 14       | FC200           | 200 SERIES WORM SCREW CLAMP, MANIFOLD FLANGE CONNECTIONS            | 30  |
| 15       | 4441748         | T-BOLT CLAMP, 1.5", SS                                              | 12  |
| 16       | 151805          | BOLT, .375 x 1.25 NC, PLTD                                          | 2   |
| 17       | 150005          | NUT, .375 NC, PLTD                                                  | 14  |
| 18       | 150248          | LOCK WASHER, .375, SS                                               | 14  |
| 19       | 150212          | FLAT WASHER USS, .375 PLTD                                          | 26  |
| 20       | 158147          | BOLT, .25 x 1 NC, SS                                                | 10  |
| 21       | 150202          | LOCK WASHER, .25 PLTD                                               | 10  |
| 22       | 150204          | FLAT WASHER, .25 PLTD                                               | 10  |
| 23       | NGP-7055        | SINGLE PISTON PUMP, WITHOUT CLUTCH                                  | 1   |
| 24       | HB150-90        | 1-1/2" BARBED X MNPT 90 DEGREE ELBOW                                | 2   |
| 25       | NGP-9055        | DOUBLE PISTON PUMP, WITHOUT CLUTCH                                  | 1   |
| 26       | 4441180         | HOSE CLAMP, WORM GEAR, 3/4" TO 1- 3/4", 1/2" BAND WIDTH, SAE 020 SS | 7   |
| 27       | HBT100-100      | TEE HB 1"                                                           | 1   |
| 28       | RC100-075       | COUPLING, REDUCER, 1" FPT TO 3/4" FPT                               | 2   |
| 29       | HB075-038       | 3/4" MPT X 3/8" HOSE BARB                                           | 2   |
| 30       | HB100-90        | 1" BARBED X MNPT 90 DEGREE ELBOW                                    | 1   |
| 31       | 4441177         | HOSE CLAMP, WORM GEAR, 3/8" TO 7/8", 1/2" BAND WIDTH, SAE 006 SS    | 2   |
| 32       | 4434231         | TEE MOUNTING BRACKET                                                | 2   |
| 33       | FC300           | 3" STANDARD PORT WORM SCREW CLAMP                                   | 5   |
| 34       | 300GV           | GASKET 3 IN FLANGE VITON                                            | 5   |
| 35       | M300200CPG      | 3 in. X 2 in. Reducer Flange                                        | 1   |

| ITEM NO. | PART NUMBER      | DESCRIPTION                                           | QTY |
|----------|------------------|-------------------------------------------------------|-----|
| 36       | M300BRB          | 3 in. Flange X 3 in. Hose Barb                        | 2   |
| 37       | 4441521          | T-BOLT HOSE CLAMP, 3.43-3.75                          | 2   |
| 38       | 150GV            | GASKET, 1.5 IN VITON                                  | 30  |
| 39       | M200150BRB       | 2" Flange X 1.5" Hose Bar                             | 7   |
| 40       | FMC-150F-HYD-206 | ACE HYDRAULIC PUMP                                    | 1   |
| 41       | M220200CPG       | REDUCER COUPLING, MANIFOLD FLANGE, 2" FP TO 2"        | 1   |
| 42       | MLS200-50        | 2 in. Polypropylene Manifold Y Line Strainer, 50 MESH | 2   |
| 43       | 200GV            | GASKET, 2 IN, VITON                                   | 2   |
| 44       | FC220            | FLANGE CLAMP, 220 SERIES, WORM SCREW                  | 2   |
| 45       | M200150MPT       | ADAPTER, 1.5" NPT TO 2" MANIFOLD FLANGE               | 2   |
| 46       | M200100BRB90     | 2" MANIFOLD FITTING, 1" HOSE BARB 90 DEGREE           | 4   |
| 47       | 4431766          | MOUNTING BRACKET, FLOW CONTROL BANK                   | 1   |
| 48       | UB202            | 200 SERIES MOUNTING U-BOLT                            | 4   |
| 49       | FC100            | 100 SERIES WORM SCREW CLAMP                           | 8   |
| 50       | M100GV           | 100 SERIES GASKET, FKM                                | 8   |
| 51       | M100BRB90        | 1 in. Flange X 1 in. 90 Degree Hose Barb              | 2   |
| 52       | MPRV100-075      | 100 X 100 PRESSURE SPIKE VALVE, FKM SEALS, 75 PSI     | 1   |
| 53       | M200100TEE       | 2 in. X 1 in. Flanged Tee                             | 2   |
| 54       | RV 063-0171-985  | RFM60P HIGH PULSE, RAVEN FLOW METER, LIQUID           | 1   |
| 55       | M220150BRB90     | 2" FP X 1.5" 90 DEG HOSE BARB                         | 1   |
| 56       | M200TEE          | TEE, 2 IN FLANGED                                     | 1   |
| 57       | RV 063-0171-894  | VALVE ASSMY, CONTROL, 1-1/2-200 FLANGED               | 1   |
| 58       | MTF220BD         | MANIFOLD BULKHEAD FITTINGK, 2 IN FP FLANGE            | 1   |
| 59       | M100075BRB90     | 1" MANIFOLD FITTING, 3/4" HOSE BARB 90 DEGREE         | 5   |
| 60       | M200CPG          | MANIFOLD COUPLING 2 in. X 2 in. Flange X 4.5 in. Long | 1   |
| 61       | 4431794          | MOUNTING PLATE, STRAINER                              | 1   |
| 62       | 3042T32          | CLAMP, LOOP                                           | 2   |
| 63       | M200CR           | CROSS, 2" MANIFOLD FLANGE                             | 2   |
| 64       | 151811           | BOLT, .375 x 2 NC, G5, PLTD                           | 8   |
| 65       | 151806           | BOLT, .375 x 1.5 NC, G5, PLTD                         | 4   |
| 66       | 151610           | .3125 x 1 NC SS                                       | 4   |
| 67       | 158054           | FLAT WASHER, .3125, SS                                | 8   |
| 68       | 158053           | LOCK WASHER, .3125 SS                                 | 4   |
| 69       | 150007           | NUT, .3125 NC, SS                                     | 4   |
| 70       | M200PLG          | PLUG, FLANGE CONNECTION, 2"                           | 1   |

|            |                    |          |
|------------|--------------------|----------|
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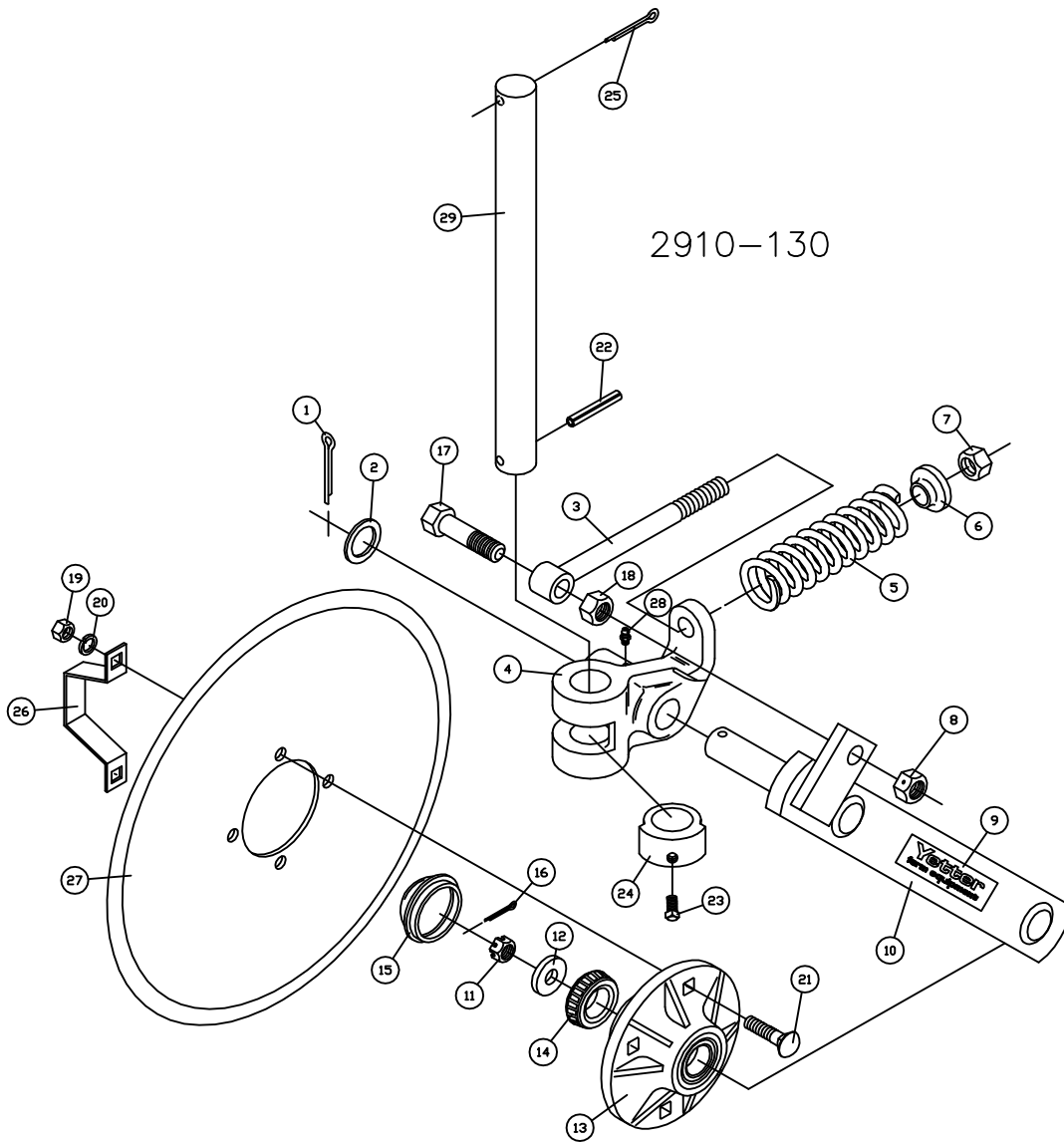
DWG: DLQ TANK PLUMBING

|                  |                     |                 |
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| SIZE<br><b>A</b> | SHEET TITLE:<br>BOM | REV<br><b>A</b> |
|------------------|---------------------|-----------------|

**FOR PARTS, CALL 1.800.342.7498**

SCALE: 1:192 SHEET 7 OF 7

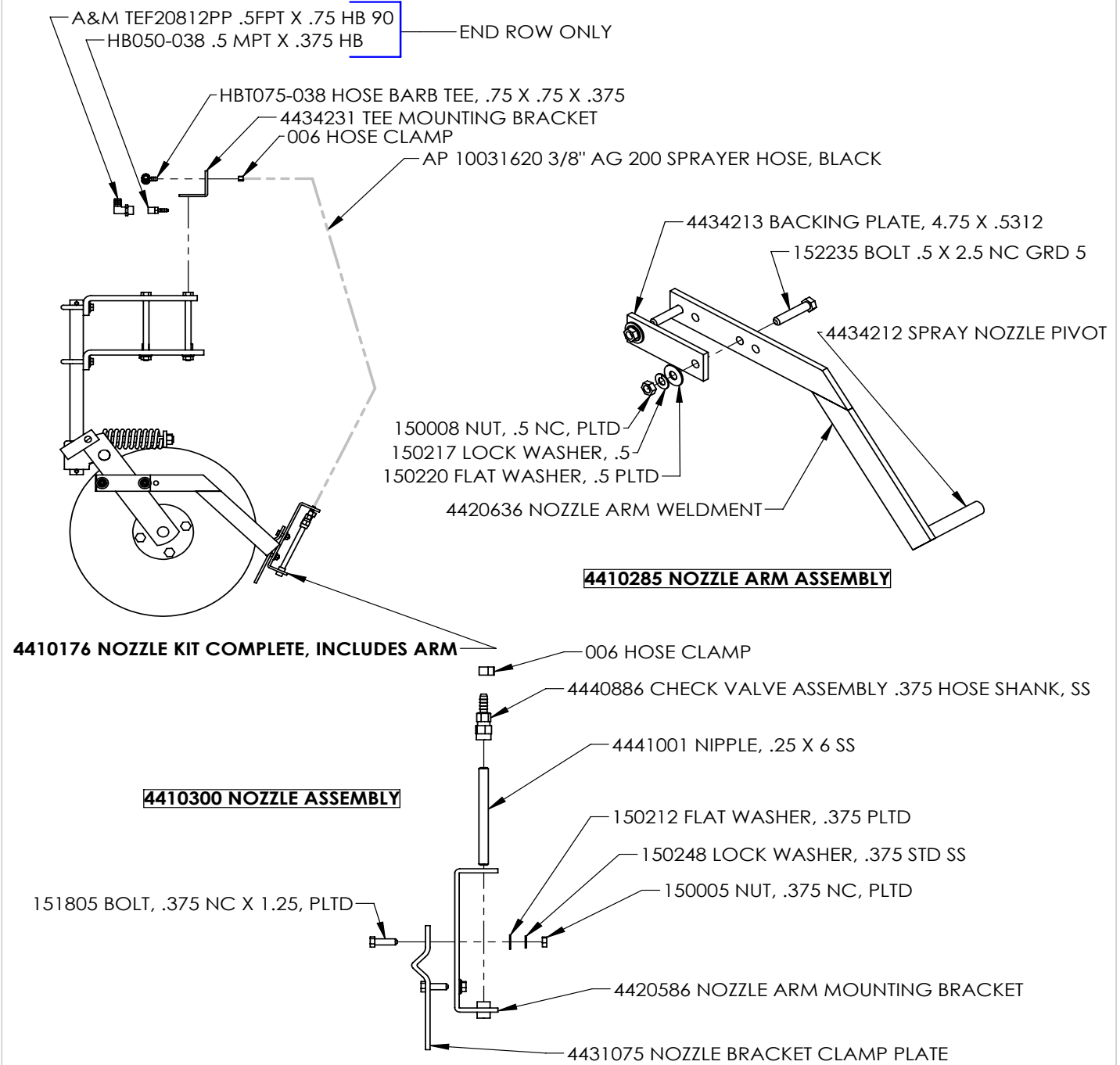
# YETTER COULTER ASSEMBLY



| DET | QTY | PART NO. | DESCRIPTION                       | DET | QTY | PART NO. | DESCRIPTION                            |
|-----|-----|----------|-----------------------------------|-----|-----|----------|----------------------------------------|
| 1   | 1   | 2531-125 | 1/4" X 1-3/4" COTTER PIN          | 14  | 1   | 2550-027 | CONE, LM67048                          |
| 2   | 1   | 2526-561 | 1-17/64"ID X1-7/8"OD X14GA WASHER | 15  | 1   | 2570-375 | DUST CAP                               |
| 3   | 1   | 2570-125 | EYEBOLT                           | 16  | 1   | 2531-102 | 1/8" X 1-1/4" COTTER PIN               |
| 4   | 1   | 2910-320 | PIVOT                             | 17  | 1   | 2502-410 | 3/4"-16 X 3" HEX BOLT GRADE 5          |
| 5   | 1   | 2910-311 | SPRING                            | 18  | 1   | 2520-508 | 3/4"-16 HEX NUT                        |
| 6   | 1   | 2910-302 | SPRING BUSHING                    | 19  | 4   | 2520-352 | 1/2"-13 HEX NUT                        |
| 7   | 1   | 2520-516 | 3/4"-10 NY-LOCK HEX NUT           | 20  | 4   | 2525-352 | 1/2" LOCKWASHER                        |
| 8   | 1   | 2520-511 | 3/4"-16 LOCK HEX NUT              | 21  | 4   | 2505-337 | 1/2"-13 X 1 1/4" CARRIAGE BOLT GRADE 5 |
| 9   | 1   | 2565-162 | DECAL-YETTER                      | 22  | 1   | 2530-208 | 3/8" X 2-1/2" ROLL PIN                 |
| 10  | 1   | 2910-201 | PIVOT ARM                         | 23  | 1   | 2503-379 | 5/8"-11 X 1" SET SCREW                 |
| 11  | 1   | 2520-469 | 5/8"-18 SLOTTED HEX NUT           | 24  | 1   | 2910-301 | SWIVEL COLLAR                          |
| 12  | 1   | 2526-449 | 5/8" FLATWASHER, 1/4" THICK       | 25  | 1   | 2531-161 | 5/16" X 2-1/2" COTTER PIN              |
| 13  | 1   | 2900-102 | HUB SUB-ASSEMBLY                  | 26  | 1   | 2987-301 | DUST CAP RETAINER                      |
|     | 1   | 2550-027 | CONE, LM67048                     | 27  | 1   |          | COULTER BLADE-REFERENCE ONLY           |
|     | 1   | 2550-066 | TRIPLE LIP SEAL                   | 28  | 1   | 2533-110 | 1/4"-28 LUBE FITTING-SELF TAP          |
|     | 1   | 2900-105 | HUB/CUP PRESSED ASSEMBLY          | 29  | 1   |          | SHANK 1-1/2" ROUND-REFERENCE ONLY      |
|     | 1   | 2533-110 | 1/4"-28 LUBE FITTING-SELF TAP     |     |     |          |                                        |
|     | 1   | 2550-029 | CUP, LM67010                      |     |     |          |                                        |

05/12/2016 S431

## NOZZLE AND COULTER ASSEMBLY



|            |               |           |
|------------|---------------|-----------|
| DRAWN BY   | RICH SMOTHERS | 7/22/2014 |
| CHECKED BY |               |           |
| PRINT DATE | 6/21/2016     |           |
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DWG: NOZZLE & COULTER ASSEMBLY

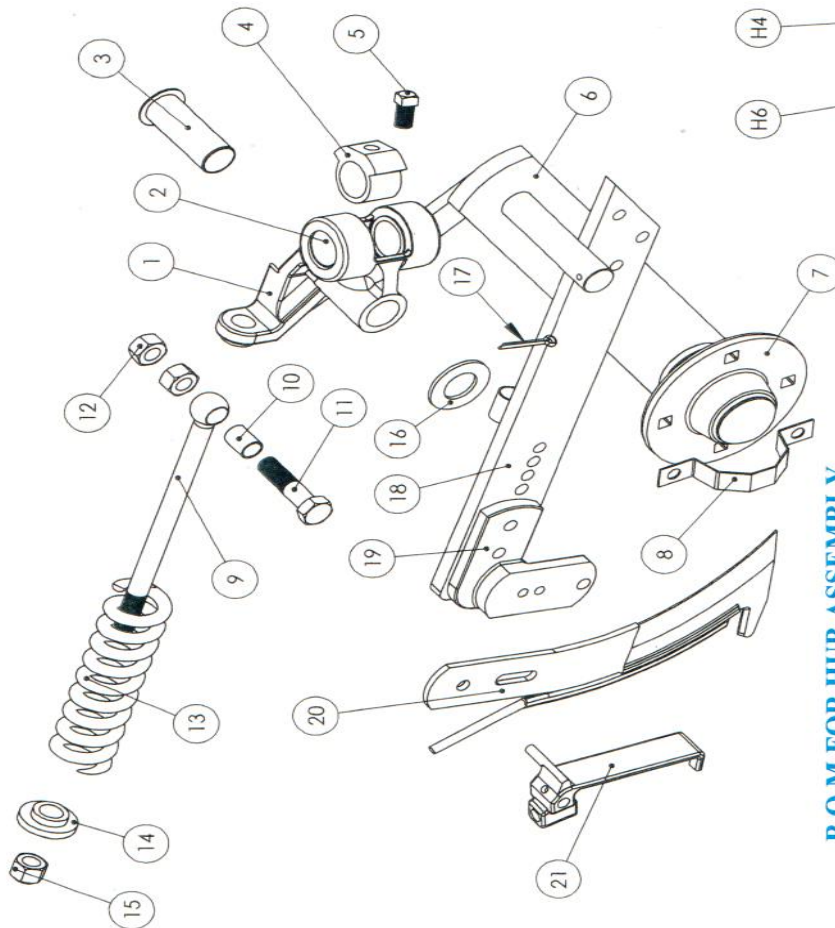
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|------------------|-------------------------------------------|-----------------|
| SIZE<br><b>A</b> | SHEET TITLE:<br>NOZZLE & COULTER ASSEMBLY | REV<br><b>A</b> |
| SCALE: 1:16      |                                           | SHEET 1 OF 1    |



# GROVE COULTER ASSEMBLY

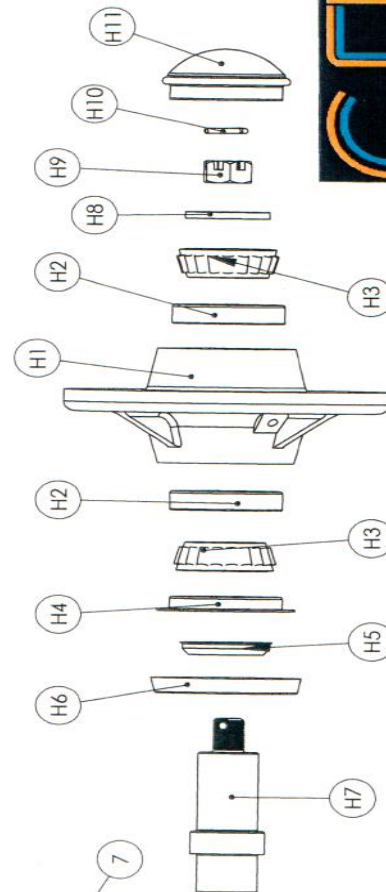
## B.O.M FOR COULTER ASSEMBLY

| ITEM NO. | PART #  | DESCRIPTION              | QTY. |
|----------|---------|--------------------------|------|
| 1        | GC3000  | Cast Coulter Knuckle     | 1    |
| 2        | GC3005  | Nylon Shaft Bushing      | 2    |
| 3        | GC3010  | Nylon Knuckle Bushing    | 1    |
| 4        | GC3105  | Lock Collar              | 1    |
| 5        | GC4075  | 5/8-11x1 Sq Hd Set Pt    | 1    |
| 6        | GC2005  | Coulter Arm              | 1    |
| 7        | GC3035  | G120 Coulter Hub         | 1    |
| 8        | GC5005  | Dust Cap Keeper          | 1    |
| 9        | GC3070  | Spring Rod               | 1    |
| 10       | GC3060  | Nylon Spring Bushing     | 1    |
| 11       | GC3055  | Spring Bolt              | 1    |
| 12       | GC3065  | Spring Nut               | 2    |
| 13       | GC3075  | Spring                   | 1    |
| 14       | GC3080  | Spring Alignment Casting | 1    |
| 15       | GC3085  | Spring Lock Nut          | 1    |
| 16       | GC3090  | Washer                   | 1    |
| 17       | G905942 | Cotter Pin               | 1    |
| 18       | GC3095  | Attachment Arm           | 1    |
| 19       | GC3102  | Knife Bracket            | 1    |
| 20       | GC5010  | Knife                    | 1    |
| 21       | GC3205  | Injector Mount           | 1    |

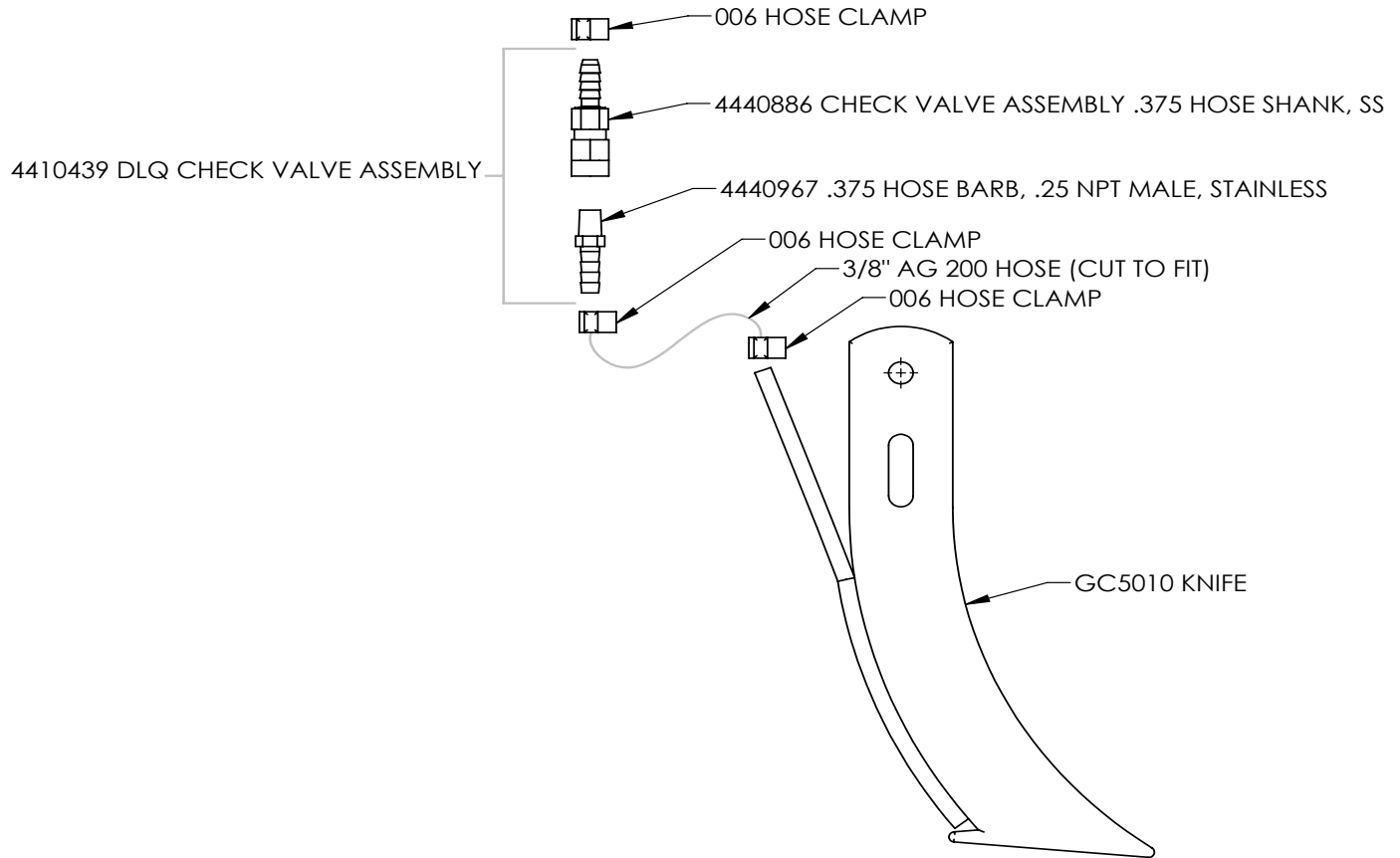


## B.O.M FOR HUB ASSEMBLY

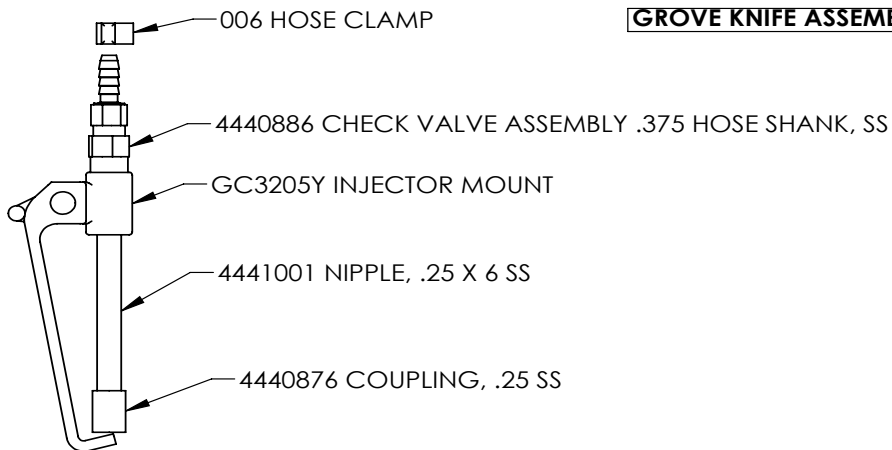
| ITEM NO. | PART #  | DESCRIPTION      | QTY. |
|----------|---------|------------------|------|
| H1       | GC3035  | G120 Coulter Hub | 1    |
| H2       | G910257 | LM67010 Cup      | 2    |
| H3       | G910259 | LM67048 Bearing  | 2    |
| H4       | GC3040  | Seal Counterface | 1    |
| H5       | GC3045  | Coulter Seal     | 1    |
| H6       | GC3050  | Seal Protector   | 1    |
| H7       | GC3020  | Coulter Spindle  | 1    |
| H8       | G913611 | Washer           | 1    |
| H9       | G912954 | Slotted Hex Nut  | 1    |
| H10      | G905936 | Cotter Pin       | 1    |
| H11      | G909970 | Dust Cap         | 1    |



## GROVE KNIFE AND INJECTION



**GROVE KNIFE ASSEMBLY**



**4410438 GROVE NOZZLE ASSEMBLY**

|            |               |          |
|------------|---------------|----------|
| DRAWN BY   | RICH SMOTHERS | 6/3/2016 |
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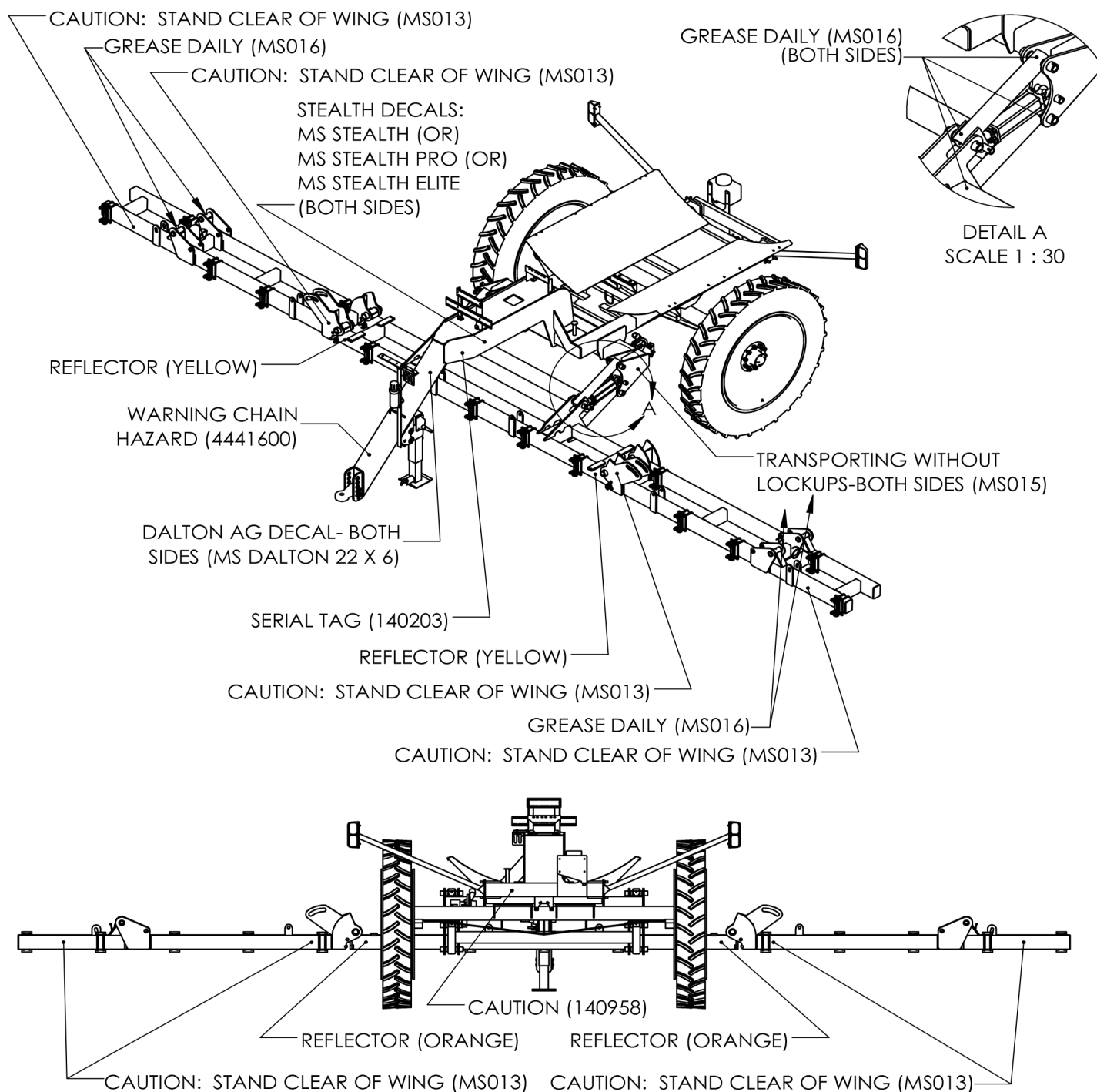


DWG: GROVE KNIFE AND INJECTION

|                  |                        |                 |
|------------------|------------------------|-----------------|
| SIZE<br><b>A</b> | SHEET TITLE:<br>Sheet1 | REV<br><b>A</b> |
| SCALE: 1:4       | SHEET 1 OF 1           |                 |

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## DECAL LAYOUT



|            |               |           |
|------------|---------------|-----------|
| DRAWN BY   | RICH SMOTHERS | 9/24/2015 |
| CHECKED BY |               |           |
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DWG: DLQ - DECAL LAYOUT

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|------------------|------------------------|-----------------|
| SIZE<br><b>A</b> | SHEET TITLE:<br>Sheet1 | REV<br><b>A</b> |
| SCALE: 1:60      | SHEET 1 OF 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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