

**Heartland
AG SYSTEMS**
EQUIPMENT

**6400
APPLICATOR**

LIQUID FERTILIZER

**OWNERS MANUAL
ASSEMBLY INSTRUCTIONS
AND PARTS LIST
OM-6400L**

HEARTLAND AG SYSTEMS
1180 STATE HWY 7 EAST
HUTCHINSON, MN. 55350
(320) 587-4030

ISSUE
JUNE 2025

WARRANTY REGISTRATION

TO THE DEALER:

Inspect the implement thoroughly after assembly to be certain it is functioning properly before delivering it to the customer. Check off each item as it is found satisfactory or after proper adjust is made.

PRE -DELIVERY CHECKLIST

1. All hardware properly tightened.
2. Lubrication of grease fittings.
3. All decals properly located and readable.
4. Other adjustments, "level operation", "drawbar height", etc.
5. Proper tongue weight after all options are mounted.
Adjustments made if required.
6. Overall condition. Touch-up paint any scratches. Clean and polish
7. Operator's manual.

Review the operator's manual with the customer. Explain the following:

1. Safe operation and service
2. Correct machine installation and operation.
3. Correct and periodic lubrication and maintenance.
4. Daily and periodic inspection.
5. Troubleshooting.
6. Storing machine.
7. Heartland AG Systems parts and service
8. Have the customer write the machine model and serial number in the space provided in the manual introduction
9. Give the customer the operator's manual and encourage the customer to read the manual carefully.

Customer Information	
Date delivered	_____
Customer name	_____
Customer address	_____
Signature	_____
Model number	_____
Serial number	_____

Seller Information	
Date set-up	_____
Signature	_____
Dealer name	_____
Address	_____
City, state, zip	_____
Phone	_____

PLEASE FILL OUT THIS SHEET AND RETURN TO HEARTLAND AG SYSTEMS

1180 State Highway 7 East Hutchinson, MN 55350

www.heartlandag.com | Heartland Agriculture, LLC dba Heartland AG Systems

CONTENTS

64KCNTLQD
ISSUE
11-9-20

Dealer Checklist	(Fill Out and Return)		
To the Owner	2	Ag26 Field Hitch Assembly & Service Parts	21
Warranty	W1-8	Tank Saddle Illustration & Parts List	22
Introduction	5	Liquid Application Plumbing (Non-Manifold)	23 & 24
Safety Information	6	Liquid Appl. Plumbing Branchline (Non-Manifold)	25 & 26
Assembly Procedure	7 to 10	Liquid Application Plumbing (WILGER FLOWVIEW)	27
Operating Instructions	10A	Liquid Application Plumbing (RAVEN CONTROLS)	28 & 28A
Toolbar Illustration	11	Liquid Application Plumbing (Manifold System)	29
Toolbar Parts List	12	Manifold Illustration (stainless steel)	29A
Caddy Illustration	13	Orifice Size Chart	30 TO 32
Caddy Parts List	14	AG37 Coulter GenII (Illustration & Parts List)	33 & 34
Mechanical Gauge Wheel Assembly	15	AG37 Coulter GenIII (Illustration & Parts List)	35 & 36
Wheel Hub Parts Illustration	16	Servicing The Coulter Hub	37
	17	Toolbar and Caddy Specifications	38
	18	Optional Stagger Brackets	39 & 40
	19	Shank Mount Arrangements	41 - 43
Safety Light Kit	20	Optional Rinse Tank Kit	44

TO THE OWNER

This manual has been prepared to assist you in the assembly of your new equipment and contains information pertaining to safety, operating information and all its parts.

Our personnel in sales and service are always available to assist you when questions arise concerning the assembly and operation of your machine.

When ordering parts, please refer to part numbers and descriptions as listed throughout this book. All parts and whole goods will be shipped FOB Hutchinson, Minnesota. Always check merchandise immediately upon receipt for damage or shortage. Note any discrepancy on the carrier's bill of lading and notify Heartland AG Systems within 10 days.

Any returned goods will be subject to a 20 percent restocking charge.

Heartland AG Systems reserves the right to make improvements and modifications on equipment without obligation to change previously built equipment. All prices are subject to change without notice.



Warranty Policies and Terms

The Heartland Agriculture, LLC warranty is a limited warranty that is provided to the retail purchaser in return for consideration paid as part of the purchase price for a product. The selling dealer must review the warranty coverage with the retail purchaser and obtain a signature on the Operators Manual for warranty verification.

The warranty described here is for Heartland Agriculture, LLC doing business as Heartland AG Systems and its product line Heartland AG Systems Equipment sold and registered in the United States and Canada and normally operated in the United States and Canada.

Warranty Period

The warranty period for all coverage begins at the time that any person, dealer or agent first places the unit into service. At the latest, a unit is placed into service when purchased or delivered to a purchaser.

What's Covered

If a defect in material or workmanship is found in a unit and reported during the Warranty period, Heartland AG Systems will pay parts and labor costs to repair the defects if the services are performed by an authorized Heartland AG Systems dealer. If parts are needed during the repair, Heartland AG Systems will, at its option, use genuine Heartland AG Systems, or remanufactured parts.

Heartland AG Systems provides no warranty, express or implied, for a component or other item that is separately warranted to the purchaser by its manufacturer, such as tires. Check with your local dealer for these details.

Exclusive Remedy

The remedy of repairing a defect in material or workmanship at a Heartland AG Systems dealership under the terms of this warranty is the purchaser's exclusive remedy and is in lieu of any other remedy otherwise available.

No Modification or Extension of Warranty

The Heartland AG Systems Warranty is limited to the written terms in the warranty statement. Heartland AG Systems does not authorize any person, dealer, or agent to change or extend the terms of this warranty in any manner. Any assistance to the purchaser in the repair or operation of any Heartland AG Systems product outside the terms or limitations or exclusions of this warranty will not constitute a waiver of the terms, limitations or exclusions of this warranty, nor will such assistance extend or re-establish the warranty.

The warranty is void if the unit is used in an application for which it is not designed or the unit has been scrapped, salvaged, stolen, junked or totaled.



Limitations and Exclusions

The Heartland AG Systems warranty gives you specific legal rights and you may also have other rights, which vary from state to state. This section contains the entire Heartland AG Systems warranty. Heartland AG Systems makes no other representations or warranties, expressed or implied, and specifically excludes the implied warranties of merchantability and fitness for particular purpose. Heartland AG Systems will not be liable for incidental or consequential damages resulting from a breach of the written warranty or any implied warranty.

- These limitations and exclusions may not be allowed by some states or provinces and shall not apply to the extent such limitations or exclusions are not allowed by applicable state/provincial law.

Owner's Responsibility

The Heartland AG Systems Warranty remains in effect during the warranty period if the owner performs the required maintenance at the recommended intervals outlined in the product's operator's manual and the unit is operated within its rated capacity. Genuine Heartland AG Systems service parts or Heartland AG Systems approved service parts that meet Heartland AG Systems specifications must be used for maintenance and repairs.

What Is Not Covered

- Replacement of non-defective wear items expected to be replaced during the warranty period, including, but not limited to: lights, fuses, belts, drive sprockets and chains, hose, soil engaging tools, spray tips, fertilizer deflectors, spinner blades and accessories or items replaced due to customer demand.
- Normal maintenance parts and service, including, but not limited to lubrication, coolants, and filters.
- All travel costs associated with hauling or towing a customer's machine to and from a repair center related to any warranty repair unless specifically covered by a program or policy.
- Repairs arising from any unauthorized modification to the product.
- Repairs arising from service performed by agents not approved by Heartland AG Systems.
- Repairs arising from storage deterioration, failure to maintain the equipment, improper use of the equipment, collision or other accident, vandalism, or other casualty, or operation beyond the rated capacity or specifications.
- Repairs arising from abuse or neglect including, but not limited to operation without adequate lubricants or coolant, over-speeding, contaminated fluids, improper storage, starting, warm-up, or shutdown practices.
- Failure of the machine, its implements or attachments caused by improper field application or overloading.
- Premiums charged for over-time labor costs.
- Economic loss, including lost profits, crop loss, equipment rental or other expenses.
- Cost associated with cleaning of machine in preparation for service.
- Loss or damage during shipment.



Heartland Agriculture, LLC



- Cost of initial setup or installation of any optional equipment or attachments to a unit.
- Items used for repairs include, but are not limited to: solvents, cleaners, anti-seize lubricants, oil-dry, shop towels, shop supplies, special tools, etc.
- Included, but not limited to are checkups, adjustments, and shimming, tune-ups, spread pattern checks, etc.
- Unauthorized modification or field fixes.
- All costs of special tools or shop supplies incurred with repairs.
- Claims for stolen equipment or parts.
- Claims for replacing a complete assembly when the repair is less than the replacement.
- Claims involving the inspection or reconditioning of units.
- Shop comebacks: any duplicate, repeat, or comeback repair resulting from improper diagnosis, testing, or poor service work.
- Cost of removing or installing Non-Heartland AG Systems optional equipment or attachments.

Base Warranty Coverage

- Base Warranty is the factory warranty provided to the customer at no additional cost for a specific period covering the complete machine.

• Liquid Applicators, except tires	1 Year
• Spreaders and Tenders, except tires	1 Year
• Nh3 Wagons, except tires	1 Year
• Bumper Hitches	1 Year
• Disc Covers	1 Year
• Parts	90 Days
• Tandem Wagons (except tires and main frame)	1 year
o Tandem Wagon main frame	5 Years
• Nitromaster Toolbars shall carry the following pro-rated warranty:	
o Year one, all components except tires	100%
o Year two, center section and wings	80%
o Year three, center section and wings	50%
o Year four, center section and wings	25%
o Year five, center section and wings	10%



Tires

Tires installed on all Heartland AG Systems Equipment are warranted and serviced by their manufacturer's service outlets. Some manufacturers have separate service outlets for off road agricultural and construction equipment. Service is available by contacting the tire manufacturer's local representative.

Warranty Registration

All machinery items, which are invoiced by Heartland AG Systems on separate receivables, must be registered for warranty. The warranty period for all coverage begins at the time that any person, dealer, or agent first places the unit into service. New machine warranty coverage begins when the machine is registered. Registration is accomplished when a properly completed Warranty Registration is received and processed by Heartland AG Systems.

Operator's Manual/Warranty Receipt Verification

The Heartland AG Systems New Equipment Limited Warranty for Agricultural Equipment statement must be filled out and signed by the customer indicating receipt and an understanding of the operator's manual and the warranty statement,

- The original form must be mailed to the address on the form.
- Make one copy for the Dealer. This copy must be retained by your dealership the same as any other legal document.
- Make a second copy for the customer.

Heartland AG Systems Responsibility

If a defect in material or workmanship is found in a product during its warranty period, Heartland AG Systems will pay parts and labor costs to repair the defect when the service is performed by an authorized Heartland AG Systems dealer or agent. If parts are needed during the repair, Heartland AG Systems will, at its option, use genuine Heartland AG Systems new or remanufactured parts. These responsibilities include, but are not limited to:

- Costs for repairs that are the result of defects in material and workmanship
- Payment to dealers per policy in a timely manner
- Service information to dealers
- Identify product deficiencies and take corrective action by field campaigns
- Make determination of premature wear
- Provide unit that is free of defects in material & workmanship

Dealer Responsibility



Heartland AG Systems dealers are responsible for providing prompt, courteous, and willing service to all Heartland AG Systems equipment owners. These responsibilities include but are not limited to:

- Equipment set-up and pre-delivery
- Sell the right product for the intended application
- Inspect the unit and initiate recovery action on any shipping damage and or shortages
- Instruct customer on proper use, maintenance, and safety features of machine
- Advise and explain warranty coverage to customer
- Diagnose the problem, repair the unit, and submit claims in accordance with the terms and conditions of the warranty claim policies
- Take responsibility for saying "NO" to customers on non-warranty failures
- Apply failure analysis to questionable repairs
- Complete product update campaigns
- Have properly trained technicians and adequate tools for the job
- Retain proper documentation of failure repaired

Owners Responsibility

The Heartland AG Systems warranty remains in effect during the stated warranty period if the owner performs the required maintenance at the recommended times as outlined in the products operator's manual. Genuine Heartland AG Systems or Heartland AG Systems approved service parts must be used for maintenance. Additionally, the owner will pay for all transportation or travel expenses related to any warranty repair.

These responsibilities include, but are not limited to:

- Perform maintenance as indicated in the operator's manual
- Use the unit in the correct application (non-abusive)
- Notify dealer of failures and have the machine available for repair in a timely manner
- Training operators
- Travel cost, towing charges, and service calls
- Normal wear items
- Machine damage (accidental)
- Adjustments for application
- Machine inspection (daily walk-around)

Warranty Eligibility

The dealer is responsible to determine that any Heartland AG Systems equipment is covered by Heartland AG Systems warranty before performing a repair and that the repair is a warrantable failure. Any dealer who is in doubt of the equipment's warranty eligibility may call Heartland AG Systems for verification.

Warranty Repairs Made by the Customer



Heartland Agriculture, LLC



If a Heartland AG Systems dealer determines that the customer is capable, and the customer requests permission to perform select(warranty)repairs on his product, the Heartland AG Systems dealer is authorized to grant this customer request. The servicing dealer should provide the parts to the customer upon request, and to assure that customer is properly instructed on how to perform the repairs correctly.

The servicing dealer is responsible and accountable for claim accuracy and validity; specifically, in areas such as the parts replaced date, and assurances that the parts are installed as instructed by Heartland AG Systems. The comments section of the claim should clearly state that the customer installed the parts. The claim reimbursement will be for parts and applicable handling only. No labor is allowed! All replacement parts must be held for possible recall.

Parts Shortages on Whole-Goods

Dealers may submit a claim for parts shortages discovered during pre-delivery or during final assembly at the dealer's location. All claims for shortages must be submitted 5 days from the original ship date from the plant and before the warranty start date.

Warranty Reimbursement Policies

Heartland AG Systems provides for warranty reimbursement due to defects in material or workmanship only. Warranty does not include restoring any machine or portion thereof, which has accumulated hours of operation, to factory new condition. This includes customer owned and used equipment.

Except for only a few items not available through Heartland AG Systems, all Heartland AG Systems manufactured equipment warranty repairs must be performed using only Heartland AG Systems genuine new or remanufactured parts and accessories. Installation of non-Heartland AG Systems parts does not qualify for warranty reimbursement and can void the machine's warranty.

Parts

It is fully expected that all claims be filed using part numbers from the applicable Heartland AG Systems equipment parts book whenever such part number exists. Heartland AG Systems shall reimburse the dealer at the dealer net price (cost) in effect on the parts replaced date.

Labor

Heartland AG Systems shall reimburse the dealer at 80% of the dealer's posted retail shop labor rate. The retail shop labor rate shall be subject to verification by Heartland AG Systems from copies of actual dealer invoices to customers.

Outside Charges

Specialized repair such as that done by a machine shop will be accepted as part of a warranty claim at actual cost. Explain the parts used and the service work performed in the description section of the claim and retain a copy of the receipt. Retain a copy of the invoice with the shop work order to support the claim. Outside repairs that exceed the cost of the same repair, if performed by the dealer, will be reimbursed at a lower rate.

Freight



Heartland Agriculture, LLC



Heartland AG Systems will pay the freight charges when a warranty recalled part is to be returned to Heartland AG Systems.

Travel

Travel will only be reimbursed when authorized by a field campaign.

Repairing or Replacing Parts and Components

When performing a warranty repair, a complete part or component should not be replaced under warranty if the repair can be accomplished at a lower cost. If the total cost of the repair including the cost of parts, labor, and/or outside labor or materials is less than 75% of the cost of the parts, the part must be repaired.

Filters and Lubricants

Replacement of lubricants and filters do not qualify for warranty reimbursement unless damage caused by a defect in material or workmanship results in contamination or sudden loss of fluid. Lack of maintenance, operator misuse, or neglect will not qualify for warranty reimbursement.



Heartland Agriculture, LLC



Claim Form Guidelines

Claims Must Have

1. Product identification number (PIN) or serial number. All characters of the PIN must be used on the warranty claim.
 - Claims for parts warranty must use the word "PARTS" for the PIN. An invoice that shows date of sale or date of installation must be supplied for all parts claims.
2. Model Number
3. Date of failure – Claims must be submitted within 30 days or repair.
4. Date of repair
5. Warranty start date. Date the unit warranty starts or date the parts were sold for parts warranty.
6. Description of the problem. Describe all problems pertinent to the claim.
Comments should be as precise as possible, attach a separate sheet if necessary, to describe the problem.
7. Description of the work performed. List each significant action of the repair.
8. Itemize labor. Provide a breakdown of labor for each significant repair action in the "Describe Work Performed" column.
9. Shop order numbers. The shop order number field is used for recording your shop work order number that is related to the claim. The shop order number field can also be used to record the parts invoice number when claiming a parts warranty.
10. Customer information. Customer information includes the customer name, city, state, county, and postal code. It must match the warranty registration.
11. Warranty claim total. The total of all reimbursement costs requested.
12. Dealer signature and date. All claims must be signed and dated by the distributor to be validated.

INTRO

INTRODUCTION

Read this manual carefully. It will instruct you on how to operate and service your machine safely and correctly. Failure to do so could result in personal injury and/or equipment damage.

Right hand and left hand sides of the machine are determined by (standing behind the machine) facing in the direction the machine will travel when going forward.

SAFETY INFORMATION

DANGER: This message denotes the most serious specific potential hazard. This sign will have the color combination of RED and WHITE.

WARNING: This message denotes a specific potential hazard.

CAUTION: This message denotes a reminder of safety practices.

NOTE: Indicates a special point of information.

***** Carefully read and follow all safety signs. Reinstall safety signs that are damaged or missing.

Warranty is provided for customers who operate and maintain their equipment as described in this manual. Warranty registration is accomplished by the dealer completing and forwarding the WARRANTY REGISTRATION FORM along with a copy of the dealer's invoice to Heartland Ag Systems. It is in your best interest to insure that this has been done.

WARRANTY does not cover the following.
– 1. Cleaning, transporting, mailing and service call charges.

– 2. Depreciation or damage caused by normal wear, accidents, improper protection or improper use.

***** See complete WARRANTY for details

Record your machine model and serial number in the space provided. Your dealer needs this information to give you prompt, efficient service when you order parts.

MODEL NUMBER _____

SERIAL NUMBER _____

DATE PURCHASED _____

SAFETY INFORMATION CONTINUED

FOLLOW SAFETY INSTRUCTIONS

Carefully read all safety messages in this manual and on your machine safety signs. Keep safety signs in good condition.
Replace missing or damaged safety signs.

Learn how to operate the machine and how to use the controls properly. Do not let anyone operate without instructions.

Keep your machine in proper working condition. Unauthorized modification to the machine may impair the function and/or safety and affect the machine life

PROTECT CHILDREN AND BYSTANDERS

Before you back, LOOK CAREFULLY behind for children

Clear area of children, pets, and bystanders

TRANSPORT SAFETY

-- Always use safety chains during road transportation.

-- Check wheel nuts daily

-- Use hydraulic cylinder transport lock-up during road transportation.

-- Maximum recommended road speed is 25 MPH

-- Clear machine of personnel and obstructions

PART NUMBER: 699107



PART NUMBER: 699101



PART NUMBER: USA



PART NUMBER: 699104



PART NUMBER: 30481

6400 APPLICATOR ASSEMBLY PROCEDURE

WITH LIQUID PUMP DRIVE

Your 6400 applicator is shipped with the small parts and hardware packed in boxes marked for the different sections of the machine. If there are any items missing, contact Ag Systems Inc immediately.

ASSEMBLE THE CADDY AND TOOL BAR

Step 1. Select a smooth level surface for the assembly of your equipment.

Step 2. Refer to the illustration on page 13. Place the caddy frame (item 1) upon four steel sawhorses. One at each corner of the frame.

Step 3. Install the axle assemblies (item 12). The hubs are pre-assembled to the axles. The left hand and right hand axles are identical. Position the axles at the track width preferred and secure with the bolts (item 14) and appropriate hardware. The narrow setting will give you a 120 inch track width. The wide setting will be a 144 inch track width. Tighten the hardware securely.

Step 4. Mount the tire (item 89) on the rim (item 87) and mount the wheels on the hubs.

Step 5. Install the bottom linkage arms (item 3) in the bottom set of holes in the brackets at the front of the caddy. Mount the arms with the linkage pins (item 8) and secure with the bolts (item 9) and appropriate hardware.

Step 6. Unbolt the saddle assembly from the caddy frame. This needs to be done before you can install the torsion frame assembly. Install the torsion frame (item 2) in the top set of holes in the brackets at the front of the caddy. Mount the torsion frame with the pivot pins (item 4) and secure with the bolts (item 5) and appropriate hardware. Pins are installed from the inside facing out so the pin grease zerks are easily accessible. Next slide the saddle ass'y forward on the caddy frame. Be sure to use the holes that place the saddle in the farthest forward position for tank weight transfer. **Caution, failure to mount the tank forward may cause a filled caddy hitch pole to tip upward when unhitched from the tractor.** Bolt down using items 10, 11 and 9 or item 20 as shown on the saddle assembly page. See page 22 of this manual.

Step 7. Install the hydraulic cylinders (item 75) with the body on the caddy and the shaft on the torsion frame. Note, the butt end ports should be to the top of the cylinder and the rod end ports should be on the side.

Step 8. Place the tool bar center section (item 1, page 11) in two sawhorses, one at each end and have on hand a hoist or jacks or other lifting device. Attach the linkage arms (item 3, page 13) to the bottom set of holes in the brackets on the tool bar. Mount with the linkage pins (item 8) and appropriate hardware. Attach the torsion frame to the top set of holes in the brackets on the tool bar with the pivot pins (item 4) and appropriate hardware.

Step 9. Assemble the poles (item 2, page 11) left hand, and (item 3) right hand to the front of the tool bar with the bolts (item 5) and appropriate hardware. Assemble the hitch mount (item 8) to the front of the poles with the bolts (item 9) and appropriate hardware. Install the jack (item 18) and lower it to the ground. You may now remove the supports from the tool bar and caddy.

Step 10. Mount the Perfect Hitch (item 17) to the poles and other attachments as supplied.
See (item 22, and item 23 or item 30.)

Step 11. **Continue assembling the caddy.**

Refer to the illustration on page 13. Mount the accessories brackets (item 83) on each end of the torsion frame cross member. Slip the depth control rings (item 82) and the transport locks (item 79) over the accessories bracket for storage.

Step 12. Position the ground wheel drive bracket (item 18) on the left hand rear corner of the caddy frame.

Assemble with the U-bolts (item 19 and 20) and appropriate hardware. The U-bolt item 19 would straddle the rear crossmember and item 20 would straddle the side tube. Mount the hinge bracket (item 26) on the tube of the GWD bracket (item 18) with the U-bolts (item 23) and appropriate hardware. For a 120 inch wheel track, the center of this bracket should be located 51 1/2 inches from the center of the caddy.

Step 13. ASSEMBLE THE GROUND WHEEL DRIVE (GWD.)

- A. Assemble the bearings (item 62) to the inside of the pump drive bracket (item 47) with the appropriate hardware.
- B. Assemble the shaft (item 60) with the sprocket (item 51) the square key (item 52) the hub (item 49) and the square key (item 61) and secure with the setscrews in the hub and the sprocket.
- C. Assemble the idler sprocket (item 55) to the pump drive bracket with the bolt (item 56) and one washer (item 57) on each side of the sprocket and fasten with the lock washer (item 58) and the nut (item 59).
- D. Install the shaft assembly in the bearings in the pump drive bracket and secure with the set screws in the bearings. Mount the wheel (item 48) on the hub (item 49) Mount this assembly on the hinge bracket (item 26) with the shaft (item 27) and appropriate hardware.
- E. Mount the pivot anchor (item 40) on the tube of the GWD bracket (item 18) and attach it to the pump drive bracket (item 47) with the clevis pin (item 42) and hairpin (item 43).
- F. Position the eye bolt (item 66) thru the slotted hole in the pump drive bracket and attach it to the hinge bracket (item 26) with the clevis pin (item 73) and the cotter pin (item 74).
- G. Position the transport lock pin (item 70) thru the guide tube on the pump mount bracket and install the expansion pin (item 72) in the end hole of the lock pin. Insert the hairpin (item 71) in the hole in the guide tube and thru the hole nearest the handle in the lock pin.
- H. Assemble the spring (item 67) and the spring cap (item 68) to the eyebolt and secure with two nuts (item 69). Turn the nuts onto the eyebolt to a point so that at least 3/4 inch of thread is protruding from the nuts.
- I. Mount the pump (NOT SHOWN) and install the drive chain (item 53) and the link (item 54). Adjust the idler and drive sprocket positions so that all three sprockets line up and the drive wheel (item 48) is centered on the caddy wheel. You may have to move the sprocket on the shaft or reposition the shaft in the bearings and/or add washers to the idler sprocket.

Step 14. Install the push rod assembly (items 30 to 39) with one end on the torsion frame and the other end clamped to the square tube on the pump drive bracket (item 47).

Step 15. Adjust the push rod assembly. Position any temporary shim (approximately 1/4" thick) at the end of the transport lock pin (item 70). On the push rod assembly, extend the adjustable clevis (item 32) far enough so that all play is removed from the assembly. Remove the temporary shim from the transport lock pin. You should now be able to push in the transport lock pin and freely insert the hairpin (item 71). If you cannot insert the hairpin, repeat the above procedure using a thicker shim. When this assembly is adjusted satisfactorily, secure it in place with the nut (item 31) on the adjustable clevis.

ASSEMBLE THE WINGS OF THE TOOL BAR

Step 16. Refer to the illustration on page 11. Assemble the primary wings (item 45) to the center section. Place the primary wings on steel sawhorses and assemble to the center section with the hinge pins (item 37). Position the hose guide (item 67) to the pivot pin and secure all with the bolt (item 38) etc.

Step 17. Assemble the primary wing cylinders (item 40 or 40A) size 3 x 24 onto the center section with the body on the center section and the shaft towards the wings. Secure the butt end with the pin (item 41). Do not secure the shaft until the hydraulic system has been purged of air.

Step 18 Assemble the secondary wings (item 61) to the primary wings with the hinge pins (item 64). Position the hose guide (item 67) to the pivot pin and secure all with the bolt (item 65) etc.

Assemble the cylinder link (item 57) to the primary wing with the linkage pin (item 58) and hardware as shown. Assemble the cylinder link (item 63) to the secondary wing with the linkage pin (item 68) and hardware shown. Mount the hydraulic cylinder (item 40) size 3 x 24 onto the primary wing with the body on the primary wing and the shaft towards the secondary wing. Secure the butt end with the pin (item 41). Do not secure the shaft end until the hydraulic system has been purged of air.

Step 20. Mount the wing hook block (item 71) on the secondary wing so that the latch pin is located 24 inches from the wing hinge pin. Assemble the latch assembly (item 51) with the swing stop bushing (item 52) and when used, the locking strap (item 80) as shown in the enlarged view on page 11. Assemble all to the primary wing with the hardware shown.

MOUNTING THE GAUGE WHEELS

Step 21 If your tool bar is equipped with mechanical gauge wheels refer to the illustration on page 15 & the shank location illustration page. The gauge wheel assembly should be located as far to end of the secondary wing as is practical, considering coulter locations and other obstructions. The pivot arm with the wheel hub should be located as indicated on these illustrations. To ensure the bar is running level, the gauge wheel height should be adjusted to coincide with the depth control segments used on the hydraulic cylinders on the center section and any hydraulic wheels.

Step 22 Refer to page 22. Mount the saddle and tank as indicated. The fitting and hose arrangement may be found on page 23.

Step 23. Install the hydraulic fittings and hoses as indicated on the hydraulic schematic illustration on page 18.

Step 24. **Purge the air from the hydraulic system**

- A. Firmly anchor the pole to a heavy stationary object or attach it to a tractor.
- B. Pressurize the hydraulic system. Fully extend all cylinders. Make sure the shafts of the cylinders do not hit any obstructions as they are extending. With the cylinders in the extended position, circulate the oil for approximately one minute. Retract the cylinders.
- C. Refer to step 20 and 21. Attach the shaft end of the cylinders to the primary wings and the secondary wings with the pins and hardware indicated.
- D. Partially lift the wings and stop. Observe if the wings will sag. This would indicate there is air in the system.
- E. Repeat steps B and C until the system operates satisfactorily.
- F. Secure the hydraulic hoses as needed.

Step 25. Mount the coulter brackets and coulters at the desired spacing. And assemble the desired knives to the coulters.

Step 26. Install the chemical application hoses and secure safely.

Step 27. Fold the wings and raise the machine to full transport height. Secure the transport locks at the caddy cylinders and the ground wheel control. Release the hydraulic pressure so that the supported items are resting on their transport locks.

CAUTION: BEFORE MOVING THE MACHINE. Read the operating instructions and warnings on the page following these assembly instructions

Step 38. . With the machine in transport position, check to see that all hoses are in a safe and secure position. Check that all hardware is tightened securely.

Your new applicator is now ready to go to work.

Caution; Check all fasteners daily to make sure they continue to be secure.

WARNING; Operating the unit with loosened fasteners may cause damage and result in voiding the equipment warranty.

OPERATING INSTRUCTIONS

USE OF DEPTH CONTROL SPACERS

WARNING:

Failure to use, or incorrect use of the depth control spacers on the toolbar lift cylinders will result in voiding the equipment warranty.

Correct use of the lift cylinder depth control spacers is needed to maximize equipment performance. Incorrect use will cause the equipment to operate at uneven depths and even result in equipment damage.

To gain maximum performance from your equipment, the depth control spacers that have been provided with your equipment must be used when you place your equipment in the field. It is imperative that an equal number of spacers of equal size are placed on each of the toolbar lift cylinders before placing your equipment in service. Failure to do so may cause damage and result in voiding the equipment warranty. Use of stroke control spacers (depth control spacers) on the wing lift cylinders is not recommended, or necessary when spacers are properly placed on the center section lift cylinders.

To set the equipment to the proper depth for your field conditions, place the toolbar in the field to the desired tillage depth. Use the cylinder spacers provided with your equipment. If two cylinders are used, place an equal number of spacers of equal size on each of the cylinders. It is very important that both toolbar lift cylinders are functioning with the same size of cylinder spacers before you continue to operate your equipment. If you require deeper depth, lift the equipment, remove and replace a spacer with a thinner spacer. If you require a shallower depth, remove a spacer and replace it with a thicker spacer. Once the equipment has been set to your desired tillage depth by using the correct depth control spacers you will not need to change them.

USE OF TRANSPORT LOCK

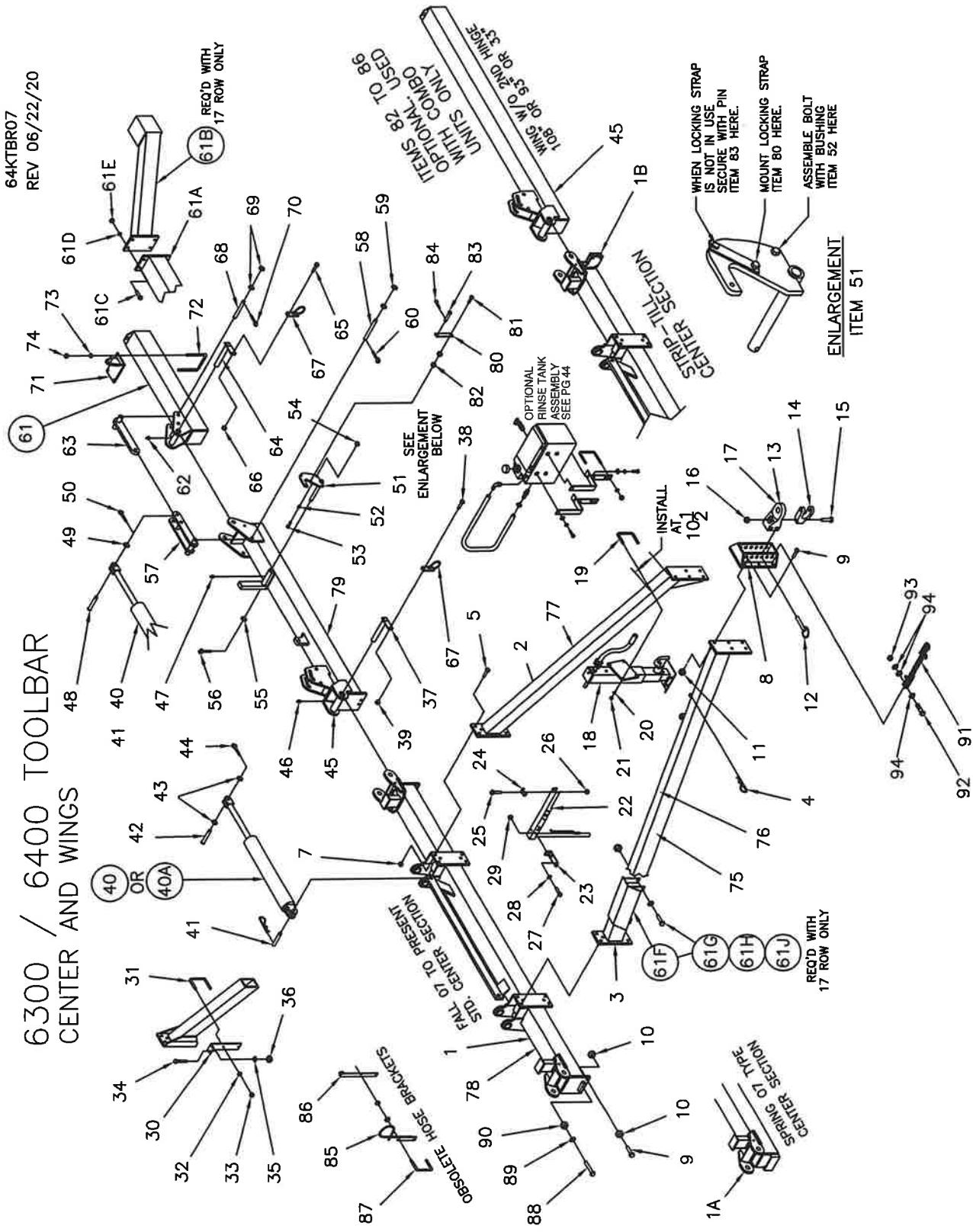
WARNING:

Failure to use the transport locks may result in equipment damage or personal injury. Equipment transport locks are provided for safety when transporting equipment over the road and should remain with the equipment. The transport locks also prevent the equipment from settling or dropping when the equipment is disconnected from the hydraulic power source. When you are finished with a field and you find it necessary to move the equipment to a new location, simply raise the toolbar out of the ground and place the transport locks provided on to the lift cylinder. You do not need to remove the spacers for transport. Slide the spacers up on the cylinder rod far enough so that the transport lock will pass below and around the spacers. Then secure the transport locks with the pins provided. When you are finished with the equipment and it is to be parked, it is imperative to place the transport locks around the lift cylinder rods to prevent the equipment from settling.

10A

6300 / 6400 TOOLBAR
CENTER AND WINGS

64KTBRO7
REV 06/22/20



6300/6400 TOOLBAR
CENTER SECTION AND WINGS

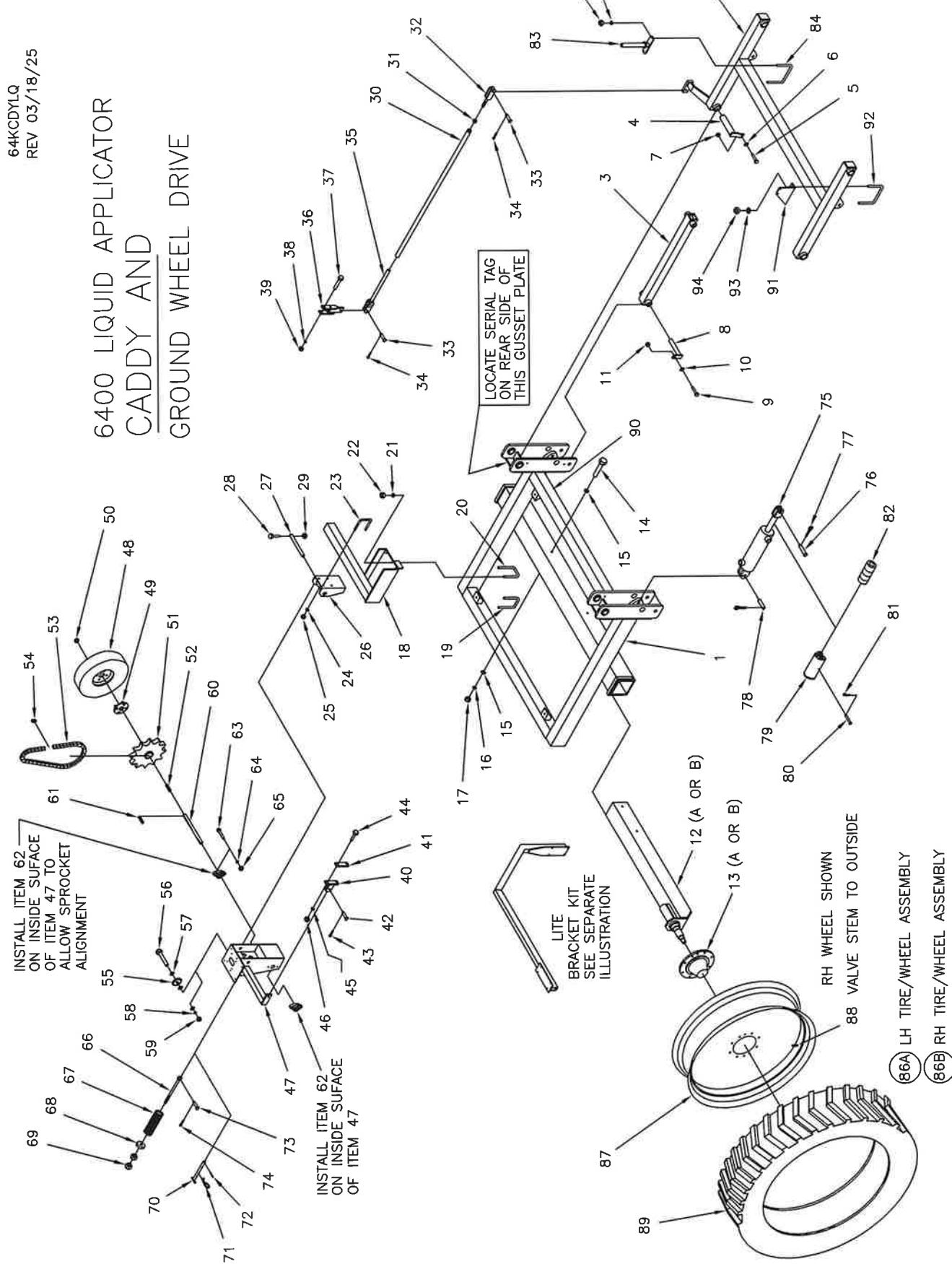
64KTBRLST07
 06/04/25

LIQUID AND DRY APPLICATORS

ITEM	PART NO.	DESCRIPTION	QTY.	ITEM	PART NO.	DESCRIPTION	QTY.
1	47003730	STD CTR SECTION,fall 07 to present	1	46	18901805	GREASE ZERK, STRAIGHT	2
1A	47003730*	STD CENTER SECTION, (to spring 07)	1	47	18901807	GREASE ZERK, 45 DEGREE	2
1B	47015023	CENTER SECTION, STRIP-TILL APLCTR.	1	48	18549054	CLEVIS PIN, (1 X 5)	2
2	47003749*	POLE, LEFT HAND(OBSOLETE SPRING 2007)	1	49	18852200	FLATWASHER, 1"	2
3	47003750*	POLE, LEFT HAND(FALL 2006 TO PRESENT)	1	50	18560826	COTTER PIN, (3/16 X 1 1/2)	2
4	47015129*	POLE, RIGHT HAND(OBSOLETE SPRING 2007)	1	51	47003821	LATCH WELDMENT	2
5	18590094	HAIRPIN BRIDGE, (#8) 3/16 DIA.	1	52	47003834	SWING STOP BUSHING	2
6	18098435	BOLT, 3/4-10NC. X 2 1/2 GR. 8	12	53	18051628	BOLT, 3/8-16NC. X 1 3/4	2
7	--	3/4	-	54	18496800	FLANGE NUT, 3/8-16NC.	2
8	18458452	LOCK NUT, 3/4-10NC.	12	55	18852200	FLATWASHER, 1"	2
9	47008355	HITCH MOUNT	1	56	18560826	COTTER PIN, (3/16 X 1 1/2)	2
10	18098435	BOLT, 3/4-10NC. X 2 1/2 GR. 8	14	57	47003787	CYLINDER LINK, PRIMARY WING	2
11	--	3/4	-	58	47003767	LINKAGE PIN, PRIMARY	2
12	18458452	LOCK NUT, 3/4-10NC.	18	59	18852200	1" FLATWASHER SAE	4
Pi-301V3C	600182	HITCH PIN, 1 X 6	2	60	18560826	COTTER PIN, 3/16 X 1 1/2	4
Pi-301V3	Pi-301V3C	PERFECT HITCH ASSEMBLY	1	61	47003780	SECONDARY WING, (LIQ ONLY) 50.5"	2
Pi-208VR	Pi-208VR	INCLUDES ITEMS 13 TO 16	1	61A	47003927	SECONDARY WING, (LIQ ONLY) 28.5"	2
13	47010154	PERFECT HITCH, (1 1/2" DRAWPIN)	1	61A	47003933	2NDARY WING, 50.5" W BOLT-ON PLT	2
14	18058452	PERFECT HITCH CLEVIS	1	61B	47003929	BOLT-ON FORWARD ANGLED OFFSET	2
15	18458452	WITH 1 1/4 OBROUND HOLE	5400 LBS. VERTICAL CAPACITY	61C	18058434	BOLT, HX 3/4 NC X 2 1/2 GR5ZP	8
16	18458452	BOLT, 3/4-10NC. X 5 GR. 8	1	61D	18891800	LOCKWASHER, 3/4" ZP	8
17	Pi-421Adi	LOCKNUT, 3/4-10NC. GR. 8	1	61E	18418400	NUT, HEX 3/4" NC ZP	8
18	70926	PERFECT HITCH, (2" DRAWPIN)	1	61F	47003939	COULTER REST WELDMENT	2
19	47010154	8410 LBS. VERTICAL CAPACITY	1	61G	18057454	BOLT, HEX 1/2-13 NC X 5 GR5 ZC	4
20	18911600	JACK,	1	61H	18891400	LOCKWASHER 1/2 ZC	4
21	18449100	FOR REPAIR PARTS SEE SEPARATE JACK ILLUSTRATION	1	61I	18417400	NUT, HEX 1/2-13 NC ZC	4
22	47005087	U-BOLT,	2	62	18901807	GREASE ZERK, 45 DEGREE	2
23	47005092	LOCK WASHER,	4	63	47003791	CYLINDER LINK, SECONDARY WING	2
24	47015091	HEX. NUT,	4	64	47003765	HINGE PIN, PRIMARY/SECONDARY	2
25	18056832	PIVOTING HOSE BRACKET	1	65	18057428	BOLT, 1/2-13NC. X 1 3/4	2
26	18459200	GAUGE BRACKET	1	66	18497400	FLANGED NUT, 1/2-13NC.	2
27	18056830	HYD HOSE CLAMP	4	67	47003843	HOSE GUIDE, WINGS	4
28	18811200	BOLT, 3/8-16NC. X 2 1/4	2	68	47003786	LINKAGE PIN, SECONDARY	2
29	18496800	LOCKNUT "NYLOK" 3/8-16NC.	1	69	18852200	1" FLATWASHER SAE	4
30	47010171	BOLT, 3/8-16NC. X 2	1	70	18560826	COTTER PIN, 3/16 X 1 1/2	4
31	47001028	ITEMS 30 TO 36 ARE OPTIONAL	1	71	47003829	HOOK BLOCK	2
32	18891200	BRACKET, SELECTOR VALVE	1	72	47302730	U-BOLT, 1/2-13NC. (7 X 8 1/2)	4
33	18436800	U-BOLT, 3/8-16NC.	1	73	18891400	LOCKWASHER, 1/2 ZC	8
34	18056469	LOCKWASHER, 3/8	2	74	18417400	HEX. NUT, 1/2-13NC. ZC	8
35	18056469	HEX. NUT, 3/8-16NC.	2	75	699100	DECAL, 6400 (MODEL NUMBER)	2
36	18811100	BOLT, 5/16-18NC. X 3 1/4	2	76	699104	DECAL, WARNING-CLEAR TONGUE	1
37	18406400	LOCKWASHER, 5/16	2	77	699107	DECAL, CAREFUL-CLEAR MACHINE	1
38	47003762	HEX. NUT, 5/16-18NC.	2	78	699107	DECAL, AG-SYSTEMS INC.	2
39	18057428	ITEMS 30 TO 36 ARE OPTIONAL	1	79	699101	DECAL, DANGER-FALLING WINGS	2
40	18497400	ITEMS 30 TO 36 ARE OPTIONAL	1	80	47009848	ITEM 80 TO 84 USED ON COMBO UNITS ONLY	2
41	47300093	FLANGED NUT, 1/2-13NC.	2	81	18051628	WING LOCK STRAP	2
42	47300093	HYDRAULIC CYLINDER 3 X 24	4	82	18436800	BOLT, 3/8-16NC. X 1 3/4	2
43	47003514	OR FOR TRACTORS WITH LESS THAN 2500 PSI USE (2) 40 & (2) 40A	2	83	18545165	HEX. NUT, 3/8-16NC.	4
44	18549054	AND THE SAME FOR 17 ROW UNITS @ 30 INCH SPACINGS	2	84	18590091	CLEVIS PIN, 3/8 X 1 3/4	2
45	47003753	LOCKWASHER, 5/16	2	85	47010165	HAIRPIN BRIDGE, .091 X 2 3/8	2
46	47300094	HEX. NUT, 5/16-18NC.	2	86	47010168	HOSE BRACKET (OBSOLETE 2007)	2
47	47003514	HYDRAULIC CYLINDER PIN KIT (1 X 4) (2 PINS)	2	87	47001028	BRACKET, PRESS. GAUGE (OBS. 2007)	2
48	18549054	CLEVIS PIN, (1 X 5)	2	88	18058443	U-BOLT, 3/8-16NC. (OBSOLETE 2007)	4
49	18852200	1" FLATWASHER SAE	4	89	18891800	BOLT, 3/4-10 NC X 4 (OPTIONAL)	4
50	18560826	COTTER PIN, 3/16 X 1 1/2	2	90	18418400	LOCKWASHER, 3/4 ZC (OPTIONAL)	4
51	47003753	PRIMARY WING, WITH 2ND HINGE	2			HEXNUT, 3/4-10NC ZC (OPTIONAL)	4
52	--	--	-			NOTE: FOR OPTIONAL RINSE TANK KIT SEE	
53	47015030	PRIMARY WING, NO-HINGE (93" WING)	2			PAGE 44 OF THIS MANUAL	
54	47005726	PRIMARY WING, NO-HINGE (108" WING)	2	91	PPSC4156BS	(ITEMS 91-4 CAN BE ORDERED AS A KIT P/N:47090314)	1
* DATE OF MANUFACTURE IS REQUIRED TO INSURE CORRECT SERVICE PARTS							

64KCDYLLQ
REV 03/18/25

6400 LIQUID APPLICATOR
CADDY AND
GROUND WHEEL DRIVE

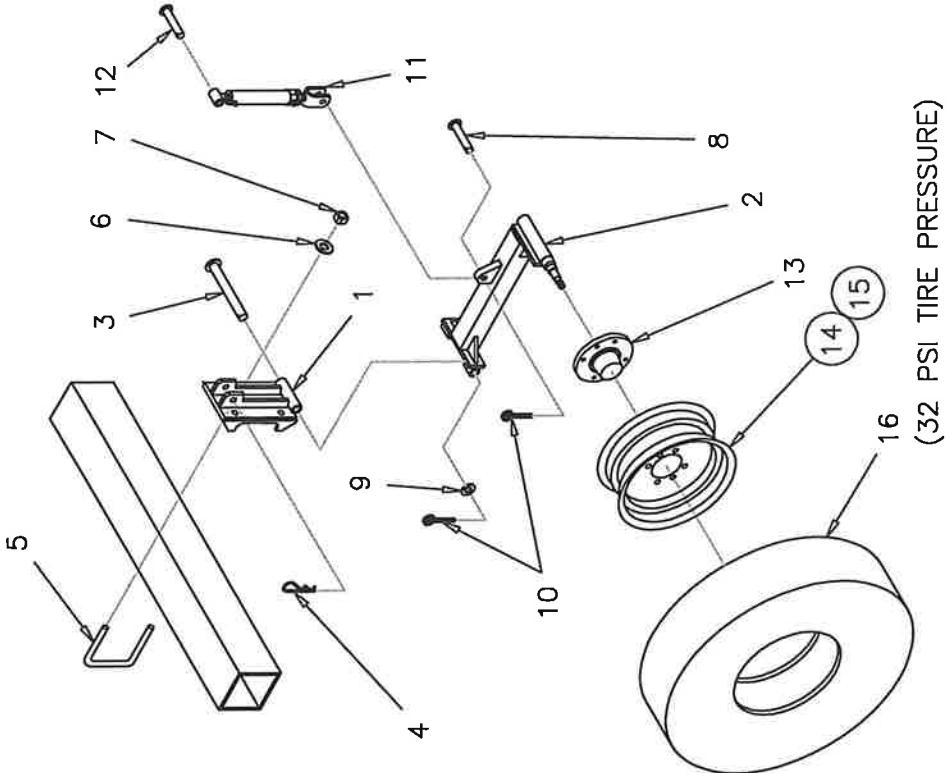


CADDY AND GROUND WHEEL DRIVE		ITEM NO.	DESCRIPTION	ITEM NO.	DESCRIPTION	QTY.
1	47003802	CADDY FRAME(OBSCURE SPRING 2006)	1	46	18417400	HEX. NUT, 1/2-13NC.
2	47015131	CADDY FRAME(FALL 2006 TO PRESENT)	1	47	47003260	PUMP DRIVE BRACKET
3	47003794	TORSION FRAME	1	48	44105519	DRIVE WHEEL ASSEMBLY (40 PSI)
3	47003800	BOTTOM LINKAGE ARM	2	49	47007068	HUB, PUMP DRIVE WHEEL
4	47003338	PIVOT PIN	4	50	47005011	WHEEL NUT, 1/2-20NF (16.5 X 6.5-8)
5	18057428	BOLT, 1/2-13NC. X 1 3/4	4	51	10342	DRIVE SPROCKET (50B40)
6	18811400	FLATWASHER, 1/2	4	52	47006519	SQUARE DRIVE KEY, 1/4 X 1 1/2
7	18457650	LOCKNUT, 1/2-13NC.	4	53	47005604	ROLLER CHAIN, #50 X 63 3/4"
8	47003341	LINKAGE PIN	4	54	31212	IDLER SPROCKET
9	18057428	BOLT, 1/2-13NC. X 1 3/4	4	55	34318	CONNECTING LINK
10	18811400	FLATWASHER, 1/2	4	56	18057934	BOLT, 5/8-11NC. X 2 1/2
11	18457650	LOCKNUT, 1/2-13NC.	4	57	18811600	FLATWASHER, 5/8
		AXLE COMPLETE, INCL. ITEMS 12A& 3A	58	18891600	LOCKWASHER, 5/8	
		AXLE COMPLETE, INCL. ITEMS 12B& 13B	59	18417900	HEX. NUT, 5/8-11NC.	
12A	47800205	AXLE WELDMENT (1400 GAL)	2	60	47003357	SHAFT, GROUND WHEEL DRIVE
12B	800205	AXLE WELDMENT (1700 GAL)	2	61	47006519	SQUARE DRIVE KEY, 1/4 X 1 1/2
13A	47001010	HUB COMPLETE (10 BOLT)	2	62	47008462	BEARING ASSEMBLY, 1 INCH
13B	1010-11	HUB COMPLETE (10 BOLT)	2	63	18057426	BOLT, 1/2-13NC. X 1 1/2
14	18058476	BOLT, 3/4-10NC. X 8 1/2	2	64	18891400	LOCKWASHER, 1/2
15	18811800	FLATWASHER, 3/4	4	65	18417400	HEX. NUT, 1/2-13NC.
16	18891800	LOCKWASHER, 3/4	2	66	47301547	EYE BOLT
17	18418400	HEX. NUT, 3/4-10NC.	2	67	47301524	COMPRESSION SPRING
18	47003839	GWD BRACKET(OBSCURE FALL 2005)	1	68	47301530	SPRING CAP
		GWD BRACKET(SPRING 2006 TO PRESENT)	1	69	18417900	HEX. NUT, 5/8-11NC.
19	44006116	U-BOLT, 5/8-11NC. (4 X 5 1/2)	1	70	47007197	TRANSPORT LOCK PIN
20	47006951	U-BOLT, 5/8-11NC. (4 X 7 1/4)	1	71	1859094	HAIRPIN BRIDGE, (.177 DIA.)
21	18891600	LOCKWASHER, 5/8	4	72	18511033	EXPANSION PIN, 1/4 X 1 1/2
22	18417900	HEX. NUT, 5/8-11NC.	4	73	18541428	CLEVIS PIN, 1/2 X 1 3/4
23	47306677	U-BOLT, 5/8-11NC. (3 X 4 1/2)	2	74	1856722	COTTER PIN, 5/32 X 1
24	18891600	LOCKWASHER, 5/8	4	75	4730091	HYDRAULIC CYLINDER, 3 1/2 X 8
25	18417900	HEX. NUT, 5/8-11NC.	4	76	18541651	CLEVIS PIN, 1 X 4 1/2
26	47003266	HINGE BRACKET	1	77	1856826	COTTER PIN, 3/16 X 1 1/2
27	47003344	PIVOT SHAFT, HINGE BRACKET	1	78	47003514	CYL. PIN KIT (1 X 4) (2 PINs)
28	18056830	BOLT, 3/8-16NC. X 2	1	79	47003314	TRANSPORT LOCK
29	18457800	LOCKNUT, 3/8-16NC	1	80	18541254	CLEVIS PIN, TRANSPORT LOCK
		HEX. JAM NUT, 3/4-10NC.	1	81	18590916	HAIRPIN BRIDGE, (1/8 DIA.)
		PUSH ROD ASS'Y(OBSCURE SPRING 2007)	1	82	47005555	"SET" DEPTH CONTROLS
		PUSH ROD ASSEMBLY(2006 TO PRESENT)	1	83	47003331	ACCESSORIES BRACKET
30	47003329	INCLUDES ITEMS 30, 31 AND 32	1	84	47001028	U-BOLT
		PUSH ROD WELDT. (OBSCURE SPRING 2007)	1	85	18891200	LOCKWASHER,
		PUSH ROD WELD'T(2006 TO PRESENT)	1	86	18436800	HEX. NUT,
31	18449003	HEX. JAM NUT, 3/4-10NC.	1	86A	40031	TIRE AND RIM ASSEMBLED, L.H.
32	47003320	CLEVIS END	1	86B	40031R	TIRE AND RIM ASSEMBLED, R.H.
33	18541835	CLEVIS PIN, 3/4 X 2 1/2	2			INCLUDES ITEMS 87, 88, AND 89
34	18590148	HINGE BRIDGE, NO 9, .148 DIA.	2			(INFLATE TO 49 PSI)
35	47003322	LINKAGE, SWIVEL BAR	1			
36	47003326	PIVOT ARM	1			
37	18057442	BOLT, 1/2-13NC. X 3 1/2	2	87	47000200	RIM, 46 X W12A (10 HOLE)
38	18891400	LOCKWASHER, 1/2	2	88	20120022	VALVE STEM
39	18417400	HEX. NUT, 1/2-13NC.	2	89	20100380	TIRE, 380/90R46 (49 PSI)
40	47003385	PIVOT ANCHOR	1	90	30481	DECAL, TIGHTEN LUG NUTS
41	47003386	CLAMP PLATE, PIVOT ANCHOR	1	91	47008049	MANUFOLD BRACKET
42	18541830	CLEVIS PIN, 3/4 X 2	1	92	4701028	U-BOLT, 3/8-16NC.
43	18590148	HARPIN BRIDGE, NO 9, .148 DIA.	1	93	18891200	LOCK WASHER, 3/8
44	18057454	BOLT, 1/2-13NC. X 5	2	94	18436800	HEX. NUT, 3/8-16NC.
45	18891400	LOCKWASHER, 1/2	2			

MECHANICAL GAUGE WHEEL ASSEMBLY

FOR 7 X 7 TOOLBAR

64KMCHGW
REV 06-10-14



FOR A 6400 TOOLBAR (LIQUID OR DRY FERTILIZER)
WITH THE SHANKS AT 30 INCH SPACING, MOUNT THE
PIVOT ARM WITH THE HUB ORIENTED TOWARD THE
END OF THE TOOLBAR.
FOR 38 INCH SPACING (LIQUID APPLICATION) THE HUB
IS ORIENTED TOWARD THE CENTER OF THE TOOLBAR.

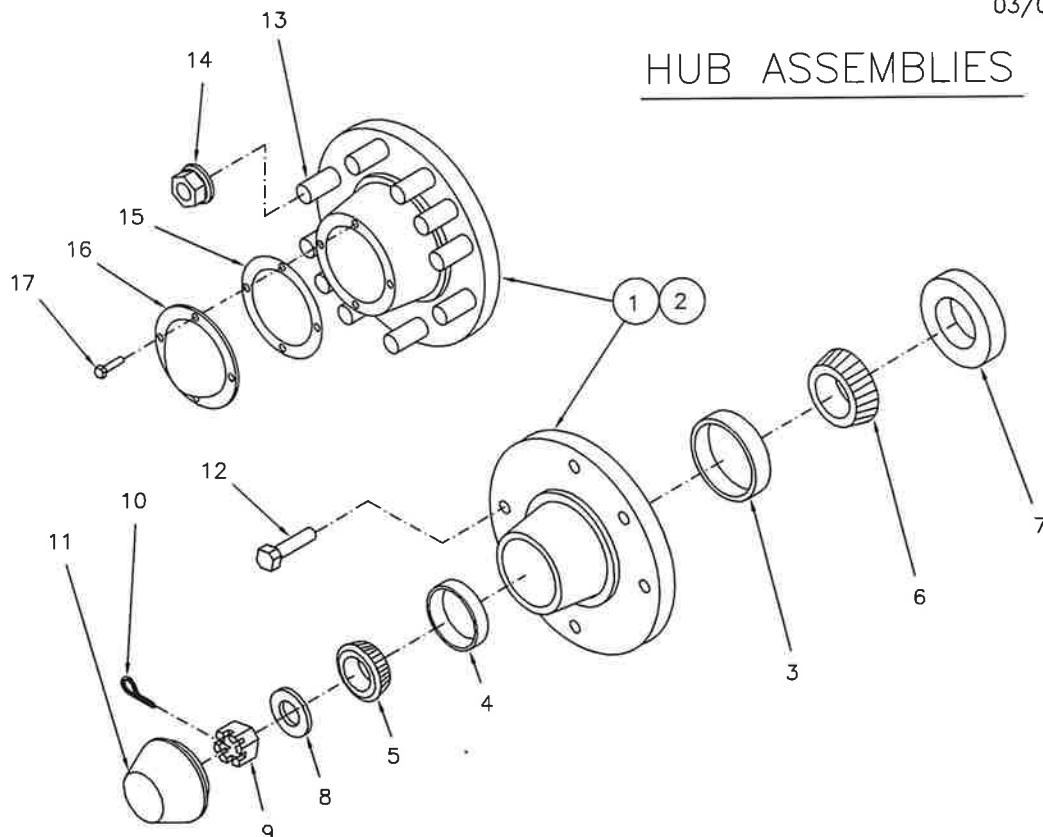
"SET" OF (2) GAUGE WHEEL ASSEMBLIES P.N. 47648001

ITEM	PART NO.	DESCRIPTION	QTY
1	47004742	PIVOT PIN	2
2	47000413	COTTER PIN, 3/16 X 1 1/2 U-BOLT, 5/8-11NC. (FOR 7 X 7 BAR)	2
3	47010413	PIVOT ARM COMPLETE, INCLUDES ITEMS 2 AND 13	2
4	18560866	LOCK WASHER, 5/8 ZC	8
5	47305002	HEX. NUT, 5/8-11NC.	8
6	18891600	CLEVIS PIN, 3/4 X 2 1/2	2
7	18417900	FLATWASHER, 1" SAE ZC	2
8	18541835	COTTER PIN, 5/32 X 1 1/2	4
9	18852200	JACK, TURNBUCKLE TYPE	2
10	18560726	CLEVIS PIN, 3/4 X 3 1/2	2
11	690063	HUB ASSEMBLY COMPLETE, (5) BOLT	2
12	18541566	WHEEL, 15" X 5 BOLT	2
13	47005348	VALVE STEM	2
14	47005590	TIRE, 670 X 15 (INFLATE TO 32 PSI)	2
15	20120012	TIRE & WHEEL ASS'Y (ITEMS 14 - 16)	2
16	20067015	(32 PSI TIRE PRESSURE)	
	40015		

15

6400HUB
03/08/25

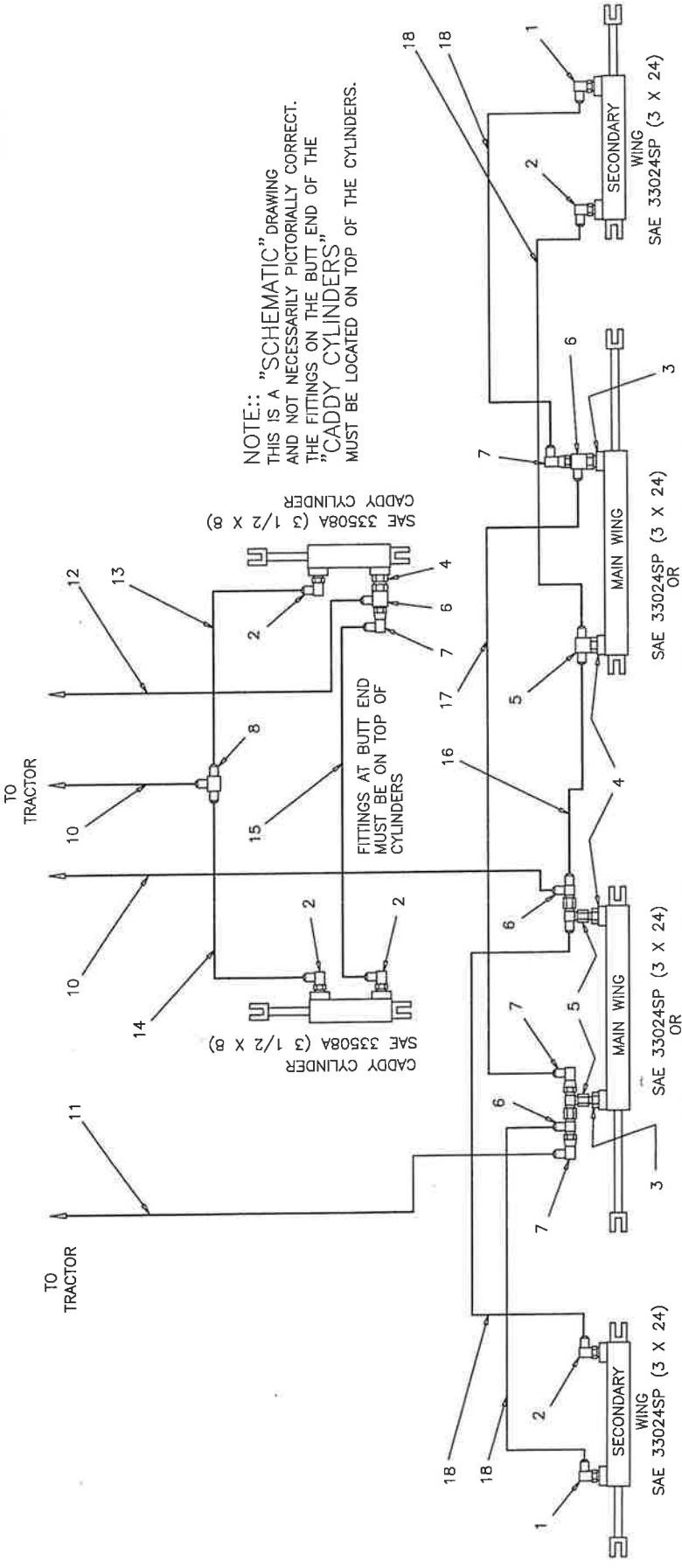
HUB ASSEMBLIES



ITEM	DESCRIPTION	MECH. GA. WHEEL 5 BOLT HUB PART NUMBER	CADDY WHEEL 10 BOLT HUB 1400 GALLON PART NUMBER	CADDY WHEEL 10 BOLT HUB 1700 GALLON PART NUMBER	QTY
1	HUB COMPLETE MFGR. PART NUMBER	47005348 HA511	47001010 H1010-1	H1010-11 H1010-11	1
HUB COMPLETE INCLUDES ITEMS 2 THRU 7 AND ITEMS 11 THRU 17 ONLY					
2	HUB WITH RACES	47006348	47002010	47003010	1
3	INNER BEARING CUP	47005010	47039520	47033462	1
4	OUTER BEARING CUP	44501910	47000453	47000453	1
5	OUTER BEARING CONE	44501949	47000460	47000460	1
6	INNER BEARING CONE	47005048	47039585	47033275	1
7	GREASE SEAL	47006011	47000048	47000067	1
8	SPINDLE WASHER	--	47000023	47000023	1
9	SPINDLE NUT	18488600	47000038	47000038	1
10	COTTER PIN	18560826	18560828	18560828	1
11	DUST CAP	47005297	--	--	1
12	LUG BOLT	47005014	--	--	5
13	WHEEL STUD (PRESSED IN)	--	4700WB51	4700WB51	10
14	WHEEL NUT, FLANGED	--	4700WB52	4700WB52	10
15	GASKET, DUST CAP	--	47000049	47000049	1
16	DUST CAP	--	47000027	47000027	1
17	CAP BOLT	--	47000053	47000053	4

HYDRAULIC PLUMBING SCHEMATIC 6300/6400 SERIES APPLICATOR (WITH MECHANICAL GAUGE WHEELS)

64KTBRPLG
REV 04-15-13



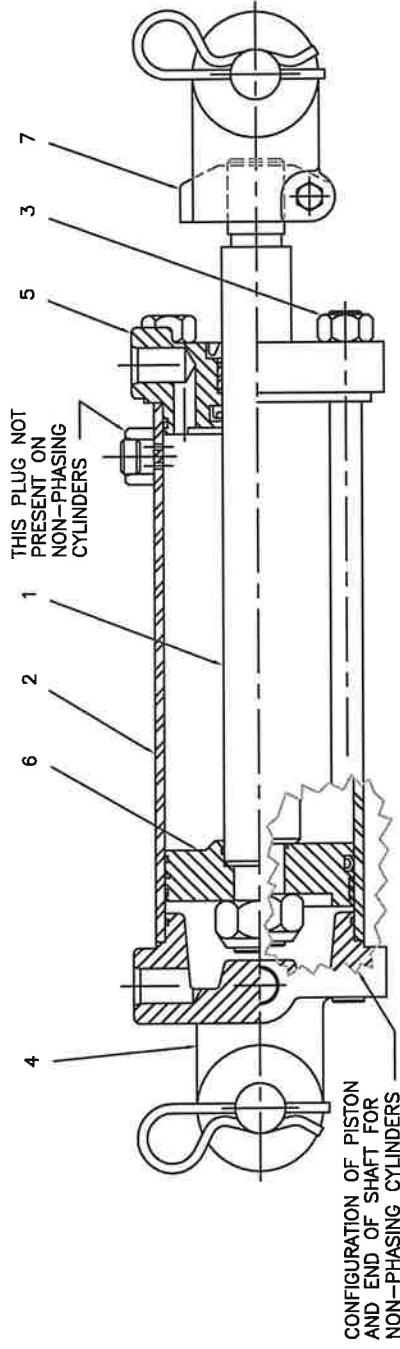
***REQUIRED ONLY WITH TRACTORS WITH LESS THAN 2500 PSI HYD SYSTEMS**

HOSE LIST CONSIST OF P.N. 640001 (COMPLETE BASE PKG.)				640001S (WING ADD PACKAGE)	
ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.
10	604180	HOSE, 1/4 X 180"	- 1/2 MPT X #6 JICFS	2	0
11	604204	HOSE, 1/4 X 204"	- 1/2 MPT X #6 JICFS	1	0
12	604216	HOSE, 1/4 X 216"	- 1/2 MPT X #6 JICFS	1	0
13	604031	HOSE, 1/4 X 29"	- #6 JICFS BOTH ENDS	1	0
14	604097	HOSE, 1/4 X 97"	- #6 JICFS BOTH ENDS	1	0
15	604151	HOSE, 1/4 X 151"	- #6 JICFS BOTH ENDS	1	0
16	604065	HOSE, 1/4 X 65"	- #6 JICFS BOTH ENDS	1	0
17	604120	HOSE, 1/4 X 120"	- #6 JICFS BOTH ENDS	1	0
18	604086	HOSE, 1/4 X 86"	- #6 JICFS BOTH ENDS	0	4

		WING PKG.	
		(BASE PKG)	WING PKG.
		QTY	QTY
	1	1	1
G	4	1	1
G	3	2	2
	1	1	2
	3	2	2
	1	3	1

O-RING
O-RING
-RING
-RING
SWIVEL
EL
EL

6400CYL06
rev 05/16/18



ITEM NO.	DESCRIPTION	WING CYL. 3 x 24 47300093 B300240BBAA007F	WING CYL. 3 1/2 x 24 47300094 B300240BBAA007A	2ndry WING 3 x 24 47300093 B300240BBAA007F	CADDY CYL. 3 1/2 x 8 47300091 A350080BAAA007A (AK-284)	CONTROL CYL. 1 1/2 x 4 47005437	QTY. REQ'D.
1	SHAFT	010729750A 051526063A	010729750B 051526063A	010729750A 051626063A	010700682 051710063A	010300124 060800136	1
2	TUBE	170201282	170201283	170201282	170201123	-----	4
3	TIE ROD ASSM.	1415005F	1415005F	1415005F	1415005F	-----	1
4	BUTT	0815BBGSF	0815BBGSF	0815BBGSF	0817BBGSF	080800083	1
5	GLAND ASSM.	071500244	071700174	071500244	071700174	070800071	1
6	PISTON ASSM.	100000423	100000577	100000423	100000577	100000444	1
7	CLEVIS ASSM.	47033500	47033500	47033500	47033500	4700AK284 (PRE 2018) (CAST CLEVIS) (WELDED CLEVIS)	1
	REPAIR KIT	Repair kit items not available individually.					

TIE ROD DISASSEMBLY--/ASSEMBLY PROCEDURE.

With the cylinder removed from the machine, cleaned, drained of oil and fully retracted, proceed as follows.
DISASSEMBLY.

- Secure the cylinder in a vice or other method to prevent rotation. Clean the immediate area so the parts can be laid out.
- Remove the tie rod nuts. Pull the shaft assembly from the cylinder. Remove the tube item (2).
- Loosen the clevis nut and remove the clevis item (7) from the shaft assembly.
- Place the shaft assembly in a vice with brass or copper jaws so as not to damage the shaft.
- Remove all seals from the butt, (item 4) gland assembly, (item 5) and piston (item 6) for replacement. Clean and inspect all parts for damage, (nicks, scratches, cracks etc.). Replace as necessary. If you have any question please contact Prince Engineering (712-277-4061)

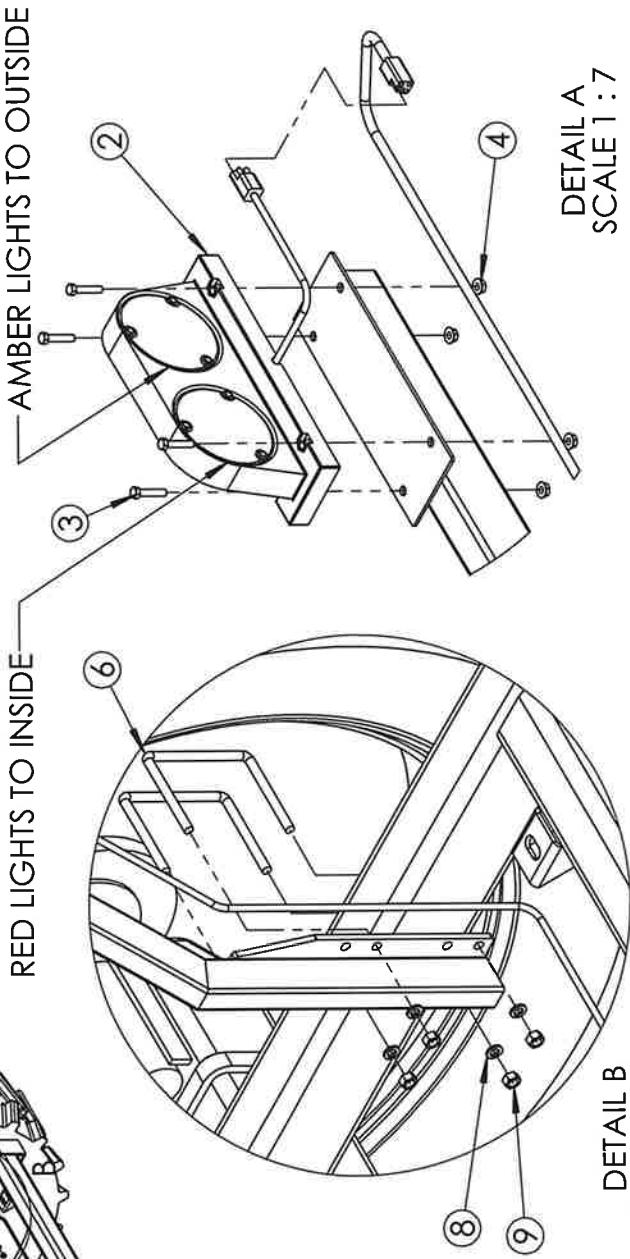
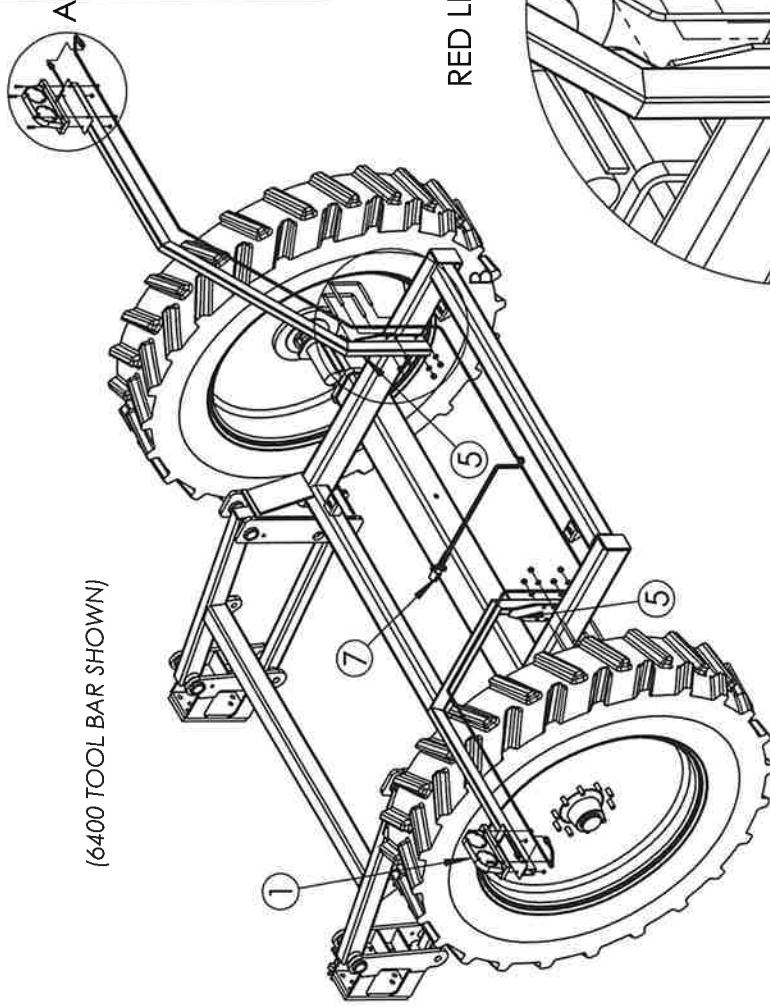
REASSEMBLY.

- Replace all the seals on items (4), (5), and (6) except, for non-phasing cylinders do not replace the small o-ring on the ID of the piston item (6) until you are ready to attach the shaft item (1).
- For non-phasing cylinders, place the small o-ring seal for the piston over the shaft turndown. Apply a light coat of grease to the seal. Slip the piston item (6) onto the turndown with the o-ring counterbore towards the shaft shoulder. Take care not to pinch the o-ring between the piston and the shoulder.
- Replace the shaft end nut and secure.
- Apply a light coat of grease to the seals on the gland item (5) and slip the gland over the shaft end. Be very careful not to damage the seals. Slip the entire assembly into the lightly oiled tube, item (2) with the piston first making sure the tube slips over the OD seals of the gland.
- Take the entire assembly from step 4 and slip the tube over the OD seal on the butt item (4). Align the ports in the butt and the gland and assemble the nuts to the tie rods and torque uniformly.
- Torque shaft locknut to 265 +/− 10 ft/lbs.. Torque tie rods to 60 +/− 2 ft/lbs.. Set retract and torque clevis bolt to 28 +/− 2 ft/lbs..
- Test the reassembled cylinder for leaks and install in your machine. If you have any problems please contact Prince Engineering (712-277-4061)

SAFETY LIGHT KIT FOR TOOLBARS

P/N: 47999697

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	54209-008	DUAL LAMP ASSY, LH	1
2	54209-022	DUAL LAMP ASSY, RH	1
3	18055724	BOLT HX CAP G5 NCZC 1/4 X 1 1/4	8
4	18495700	NUT HX SER FLG 1/4 NC ZC	8
5	47009697	LITE KIT BRACKET	2
6	47006545	U-BOLT, 1/2-13 UNC.	4
7	71675	35' HD CABLE WITH 7 PIN PLUG	1
8	18891400	WASHER, 1/2 LOCK ZC	8
9	18417400	NUT, HX 1/2 NC ZC	8
10	504560	NYLON TIE STRAP	5



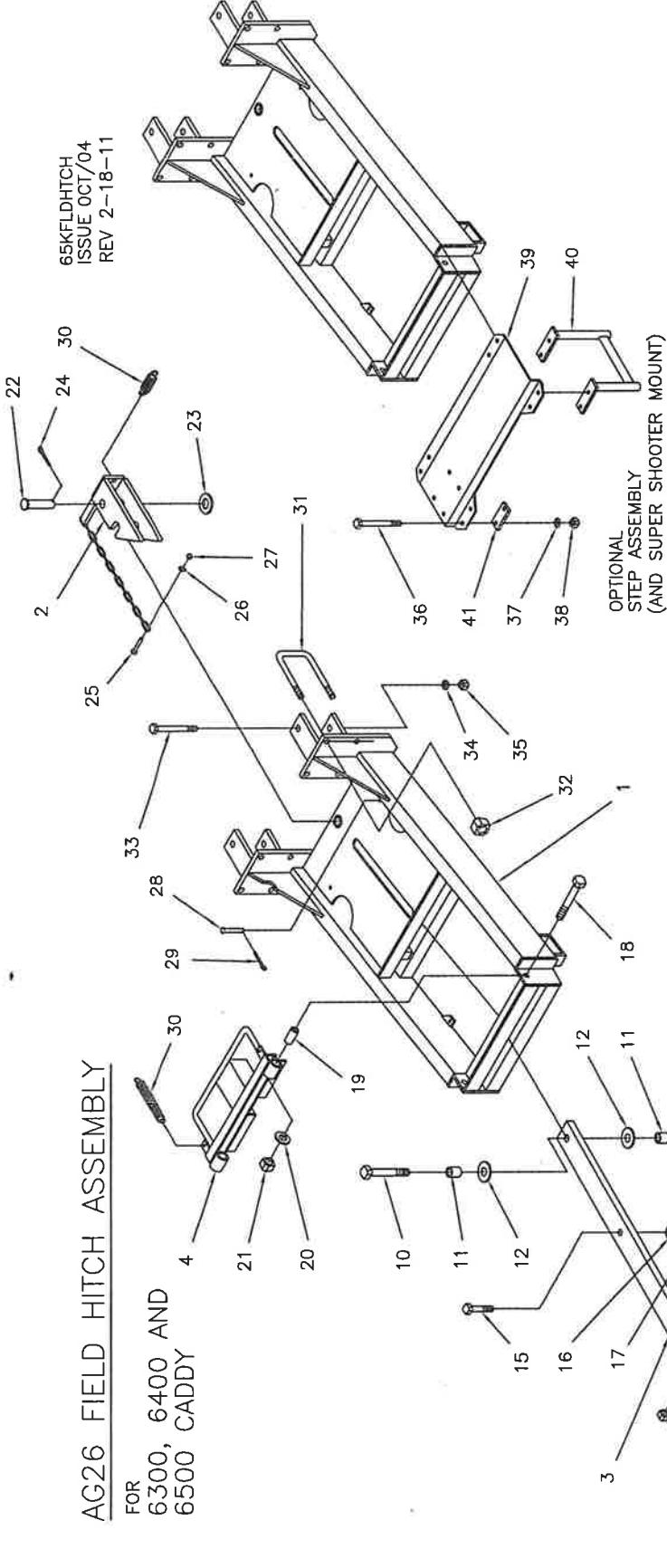
AMBER REPLACEMENT LENS PN 802650
RED REPLACEMENT LENS PN 802651

DETAIL B
SCALE 1 : 10

DETAIL A
SCALE 1 : 7

AC26 FIELD HITCH ASSEMBLY

FOR
6300, 6400 AND
6500 CADDY



65KFLDHTCH
ISSUE OCT/04
REV 2-18-11

OPTIONAL
STEP ASSEMBLY
(AND SUPER SHOOTER MOUNT)

ITEM	PART NO.	DESCRIPTION	QTY.
19	47008877	PIVOT BUSHING, 5/8 I.D.	2
20	18851600	FLATWASHER, 5/8 NOM. I.D. SAE.	2
21	18457900	LOCKNUT, 5/8-11INC.	2
22	18541551	CATCH PIVOT PIN, 1 X 4	1
23	18842200	FLATWASHER, 1" SAE	1
24	18560926	COTTER PIN, 3/16 X 1 1/2	1
25	18055722	BOLT, 1/4-18NC. X 1	1
26	18891000	LOCKWASHER, 1/4 NOM. I.D.	1
27	18435700	HEX. NUT, 1/4-18NC.	1
28	18541147	CLEVIS PIN, 5/16 X 2 1/4	1
29	18560622	COTTER PIN, 1/8 X 1	1
30	000018	EXTENSION SPRING	3
31	44001616	U-BOLT, 5/8-11INC.	4
32	18457900	LOCK NUT, 5/8-11INC.	8
33	18058460	BOLT, 3/4-10NC. X 6 1/2	2
34	18891600	LOCK WASHER, 3/4	2
35	18418400	HEX. NUT, 3/4-10NC.	2

ITEM	PART NO.	DESCRIPTION	QTY.
40266500		HITCH ASSEMBLY COMPLETE INCLUDES ITEMS, 1 TO 35	1
40266501		HITCH ASSEMBLY, LESS MOUNTING BOLTS INCLUDES ITEMS, 1 TO 30	1
1	47004736	MAIN FRAME,	1
2	47008852	DRAWBAR CATCH	1
3	47008853	DRAWBAR LOCK	1
4	47008854	DRAWBAR HITCH,	1
5	47008914	INCLUDES ITEMS, 6 AND 7	1
6	47008918	FIBER BUSHING	2
7	47008919	SPACER BUSHING	1
8	47008920	SPECIAL BOLT, 1-BNC. X 6 7/8	1
9	18459000	HEX. LOCKNUT, 1-BNC.	1
10	18098539	BOLT, 7/8-9NC. X 5 1/2	1
11	47009459	CATCH BUSHING, 7/8 I.D. (SAE)	2
12	18852400	FLATWASHER, 1 1/4 NOM. I.D. (SAE)	2
13	18417800	HEX. NUT, 7/8-9NC.	1
14	18458000	LOCKNUT, 7/8-9NC.	1
15	18058430	BOLT, 3/4-10 NC. X 2	1
16	18891800	LOCKWASHER, 3/4	1
17	18418400	HEX. NUT, 3/4-10NC.	1
18	18057940	BOLT, 5/8-11NC. X 3 1/2	2

ITEM	PART NO.	DESCRIPTION	QTY.
19	47008877	PIVOT BUSHING, 5/8 I.D.	2
20	18851600	FLATWASHER, 5/8 NOM. I.D. SAE.	2
21	18457900	LOCKNUT, 5/8-11INC.	2
22	18541551	CATCH PIVOT PIN, 1 X 4	1
23	18842200	FLATWASHER, 1" SAE	1
24	18560926	COTTER PIN, 3/16 X 1 1/2	1
25	18055722	BOLT, 1/4-18NC. X 1	1
26	18891000	LOCKWASHER, 1/4 NOM. I.D.	1
27	18435700	HEX. NUT, 1/4-18NC.	1
28	18541147	CLEVIS PIN, 5/16 X 2 1/4	1
29	18560622	COTTER PIN, 1/8 X 1	1
30	000018	EXTENSION SPRING	3
31	44001616	U-BOLT, 5/8-11INC.	4
32	18457900	LOCK NUT, 5/8-11INC.	8
33	18058460	BOLT, 3/4-10NC. X 6 1/2	2
34	18891600	LOCK WASHER, 3/4	2
35	18418400	HEX. NUT, 3/4-10NC.	2

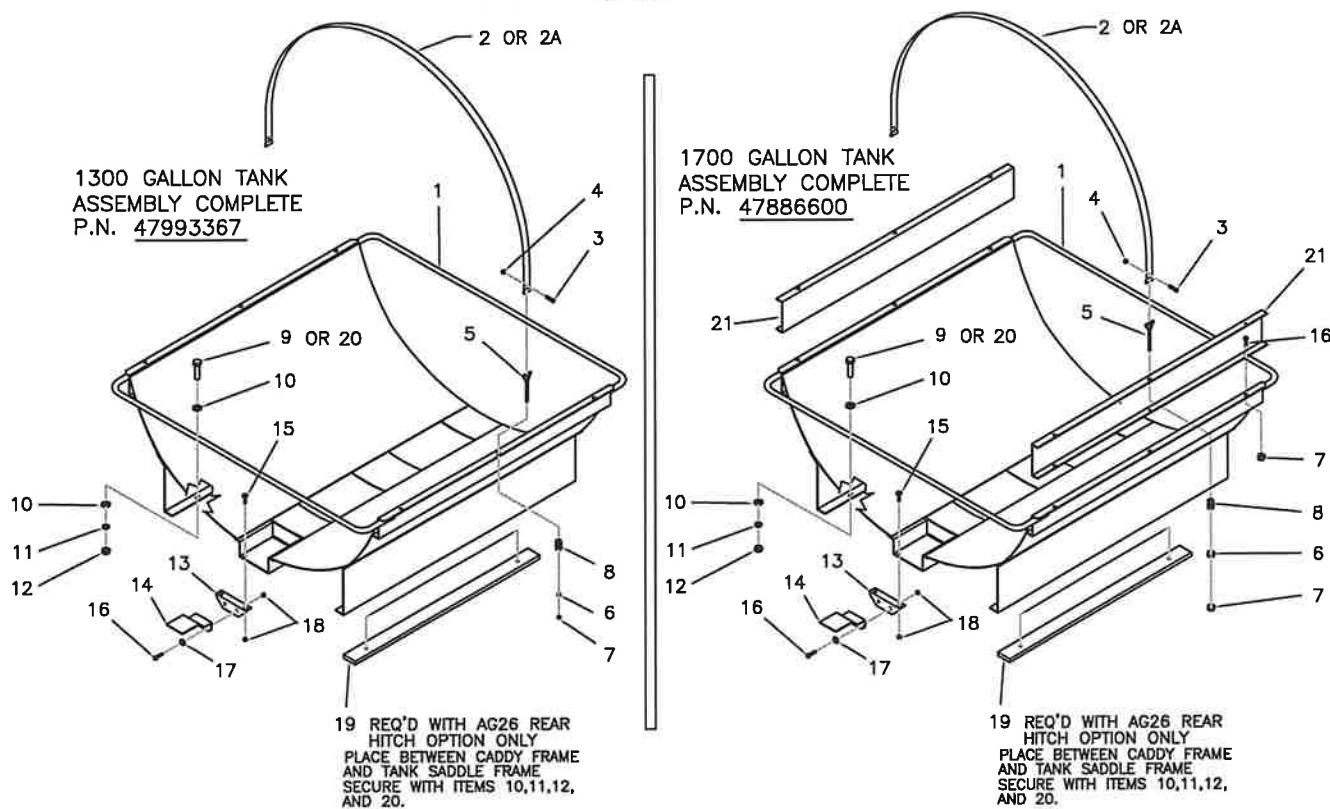
OPTIONAL STEP ASSEMBLY
INCLUDES ITEMS, 36 TO 41

36	18056863	BOLT, 3/8-16NC. X 6 1/2	8
37	18891200	LOCKWASHER, 3/8	8
38	18436800	HEX. NUT, 3/8-16NC.	8
39	47009875	SUPER SHOOTER MOUNT	1
40	47009875	STEP WELDMENT	1
41	47019875	MOUNTING PAD	2

SADDLE ASSEMBLY
1300 GALLON TANK & 1700 GALLON TANK
FOR TWO WHEEL CADDIES

6500SADL
 REV 05-23-18

See saddle mounting instructions
 below for 6400 or 6500 units



ITEM 19 REQUIRES 2- $\frac{7}{8}$ HOLES
 50" APART CENTER TO CENTER

		1300 GALLON TANK	1700 GALLON TANK
		PART #47993367	PART #47886600
ITEM	PART NO.	DESCRIPTION	QTY
1	47003367	SADDLE WELDMENT	1
	47409095	STRAP ASSY (SEPT 2011 & OLDER) INCLUDES ITEMS 2 THRU 7	3
	47419095	STRAP ASSY (OCT 2011 TO PRESENT) INCLUDED ITEMS 2A THRU 7	3
2	47006353	STRAP, 120.19 LG (SEPT 2011 & OLDER)	3
2A	47005744	STRAP, 115.19 LG (OCT 2011 TO PRESENT)	3
3	18706420	SCREW, PAN HD, 5/16-18NC X 1/2	6
4	18496400	FLANGE NUT, 5/16-18NC	6
5	47409090	EYE BOLT, STRAP END	6
6	18496800	FLANGE NUT, 3/8-16NC.	6
7	18436800	HEX NUT, 3/8-16NC.	6
8	47000550	SPRING, STRAP TENSION	3
9	18058430	BOLT, 3/4-10 NC. X 2 GR5 ZC	4
10	18851800	FLATWASHER, 3/4	8
11	18891800	LOCKWASHER, 3/4	4
12	18418400	HEX NUT, 3/4-10 NC	4
13	47003403	MOUNT BRACKET, VALVE SUPPORT	1
14	47003404	VALVE SUPPORT PLATE	1
15	18706622	BOLT, 3/8-16NC. X 1 TRUSS HD S.S.	2
16	18056822	BOLT, 3/8-16NC. X 1	2
17	18811200	FLATWASHER, 3/8	2
18	18987900	FLANGE NUT, 3/8-16NC. S.S.	4
*19	1 X 4 WOOD X 60"	LONG SPACER BOARD	2
*20	18058436	BOLT, 3/4-10NC. X 2 1/2	4
21	47005740	SADDLE TANK EXTENSION	0
			2

* ITEMS REQ'D WITH AG26 REAR
 HITCH OPTION ONLY

NOTE: SADDLE MOUNTING INSTRUCTIONS:

Use rear holes (by sump) for 6400 so tank is mounted further forward on the caddy for the required weight balance.

Use forward holes (by sump) for 6500 so tank is mounted rearward on the caddy to allow proper shank clearance from tank when folded.

LIQUID PLUMBING

6300, 6400, 6500 SERIES APPLICATORS ONLY

NON-MANIFOLD PLUMBING

STANDARD PRESSURE SYSTEM ONLY

(SPRAY BOOM STYLE PLUMBING FOR UNITS LESS THAN 11 ROWS)

APPLICATION RATE

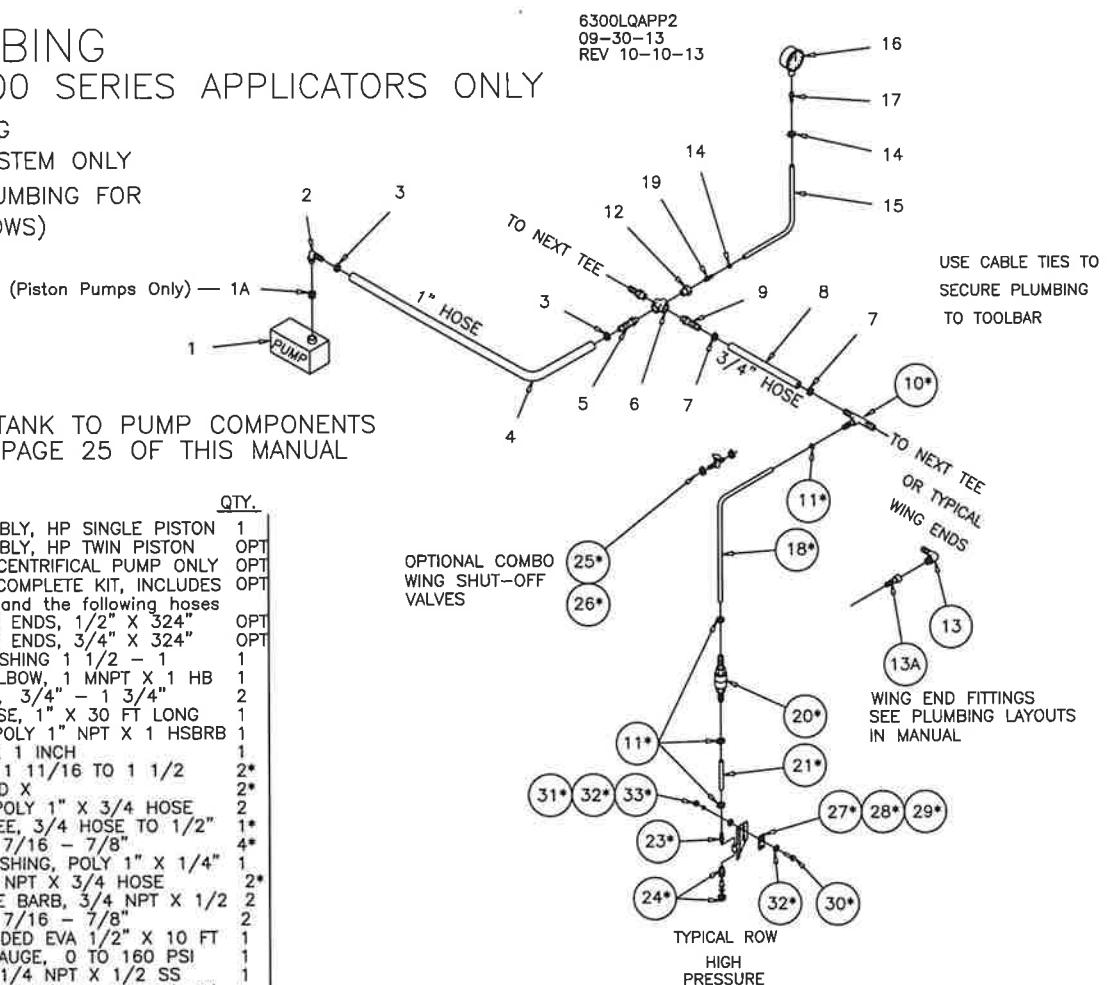
THIS METHOD IS USED FOR UP TO MAX 30 GAL/ ACRE

QUANTITIES MARKED * ARE FOR EACH ROW ONLY.

REFER TO THE ASSEMBLY ILLUSTRATIONS TO DETERMINE ACTUAL QUANTITIES FOR YOUR TOOLBAR DEPENDING ON THE NUMBER OF ROWS.

FOR TANK TO PUMP COMPONENTS SEE PAGE 25 OF THIS MANUAL

ITEM	PART NO.	DESCRIPTION	QTY.
1	NGP-7055	PUMP ASSEMBLY, HP SINGLE PISTON	1
	NGP-9055	PUMP ASSEMBLY, HP TWIN PISTON	OPT
501603	9303C HYD CENTRIFICAL PUMP ONLY	OPT	
501603OPEN	HYD PUMP COMPLETE KIT, INCLUDES HYD PUMP, and the following hoses	OPT	
604324	HYD HOSE W ENDS, 1/2" X 324"	OPT	
605324	HYD HOSE W ENDS, 3/4" X 324"	OPT	
1A	2150100	REDUCER BUSHING 1 1/2 - 1	1
2	200380	HOSEBARB ELBOW, 1 MNPT X 1 HB	1
3	200250	HOSE CLAMP, 3/4" - 1 3/4"	2
4	10040000	SPRAYER HOSE, 1" X 30 FT LONG	1
5	200328	HOSEBARB, POLY 1" NPT X 1 HSRB	1
6	250100	POLY CROSS, 1 INCH	1
7	200248	HOSECLAMP, 1 11/16 TO 1 1/2	2*
8	200228	HOSE, 3/4 ID X	2*
9	HB100-075	HOSEBARB, POLY 1" X 3/4 HOSE	2
10	HBT075-050	HOSEBARB TEE, 3/4 HOSE TO 1/2"	1*
11	200244	HOSECLAMP, 7/16 - 7/8"	4*
12	210025	REDUCER BUSHING, POLY 1" X 1/4"	1
13	200376	ELBOW, 3/4 NPT X 3/4 HOSE	2*
13A	200449	FEMALE HOSE BARB, 3/4 NPT X 1/2	2
14	200244	HOSECLAMP, 7/16 - 7/8"	2
15	100804	TUBING, BRAIDED EVA 1/2" X 10 FT	1
16	100347	PRESSURE GAUGE, 0 TO 160 PSI	1
17	100859	HOSEBARB, 1/4 NPT X 1/2 SS	1
18	100804	HOSE, BRAIDED 1/2 X 44 FT. (11 ROW)	1
		HOSE, BRAIDED 1/2 X 48 FT. (12 ROW)	1
		HOSE, BRAIDED 1/2 X 52 FT. (13 ROW)	1
		HOSE, BRAIDED 1/2 X 60 FT. (15 ROW)	1
		HOSE, BRAIDED 1/2 X 68 FT. (17 ROW)	1
19	200294	HOSEBARB, 1/4 NPT X 1/2" HOSE	1
20	115286-01	CHECKVALVE, POLY	1*
21	100804	HOSE, BRAIDED 1/2" X 1 FT	1*
22	47309038	NOZZLE BRACKET	1*
23	100859	HOSEBARB, 1/4 NPT X 1/2 SS	1*
24	504017	NOZZLE BODY ASSY, INCLUDES (1) EACH OF NOZZLE BODY	1*
	500192	STREAM STABILIZER	
	504015	OR (SELECT FROM ORIFICE CHART)	
	502338	CAP	
	503127		
25	609643	CABLE TIES (28 inches) (not shown)	1*
	4455	CHART, SLIDE RULE INJECTION	1
26	500553	COMBO WING SHUTOFF VALVE (per row)	1* optional
	200244	HOSE CLAMP, 7/16 - 1 " (per row)	2* optional



NOTE: QTYS* OF SOME ITEMS VARY DEPENDING ON THE NUMBER OF ROWS REQUIRED

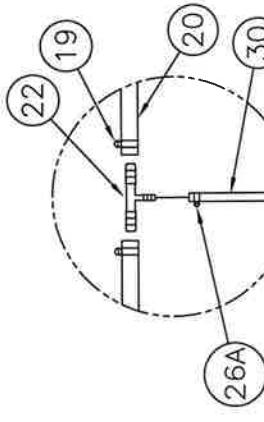
SEE PAGE 24 FOR PLUMBING REFERENCE GUIDE

ITEM	PART NO.	DESCRIPTION	QTY.
27	47306661	SHIM, 1/4 X 2 X 4 1/2	1*
28	47306662	SHIM, 1/8 X 2 X 4 1/2	1*
29	47306663	SHIM, 14GA X 2 X 4 1/2	1*
30	18057434	BOLT, HX HD 1/2 X 2 1/2 GR 5	1*
31	18417400	NUT, HEX, 1/2NC ZC	1*
32	18811400	FLATWASHER, USS ZC 1/2	1*
33	18891400	WASHER, LOCK 1/2 ZC	1*

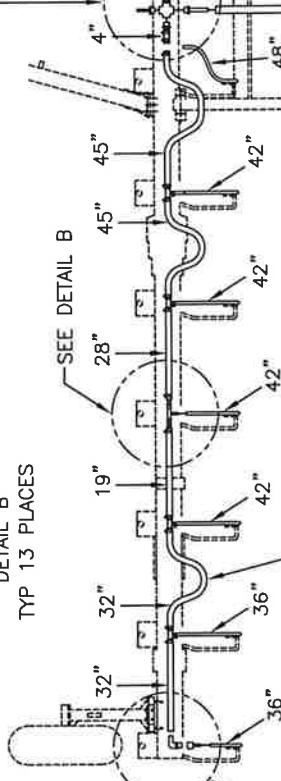
6400 SERIES TOOLBAR

**WITH COULTERS FOR
LIQUID APPLICATION
(STD PRESSURE)
(NON MANIFOLD)
(SPRAY-BOOM TYPE)
PLUMBING REFERENCE GUIDE**

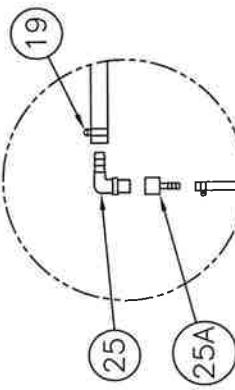
**(SEE 6400LQAPP2 FOR PARTS
ON PAGE 23 OF THIS MANUAL)**



DETAIL B
TYP 13 PLACES



-SEE DETAIL C



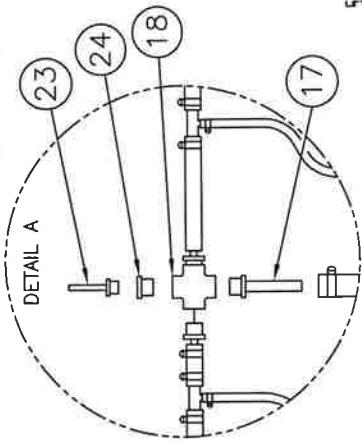
DETAIL C
TOOLBAR ENDS
TYP 2 PLACES

AG37 COULTERS
15 ROWS
AT 30 INCH SPA

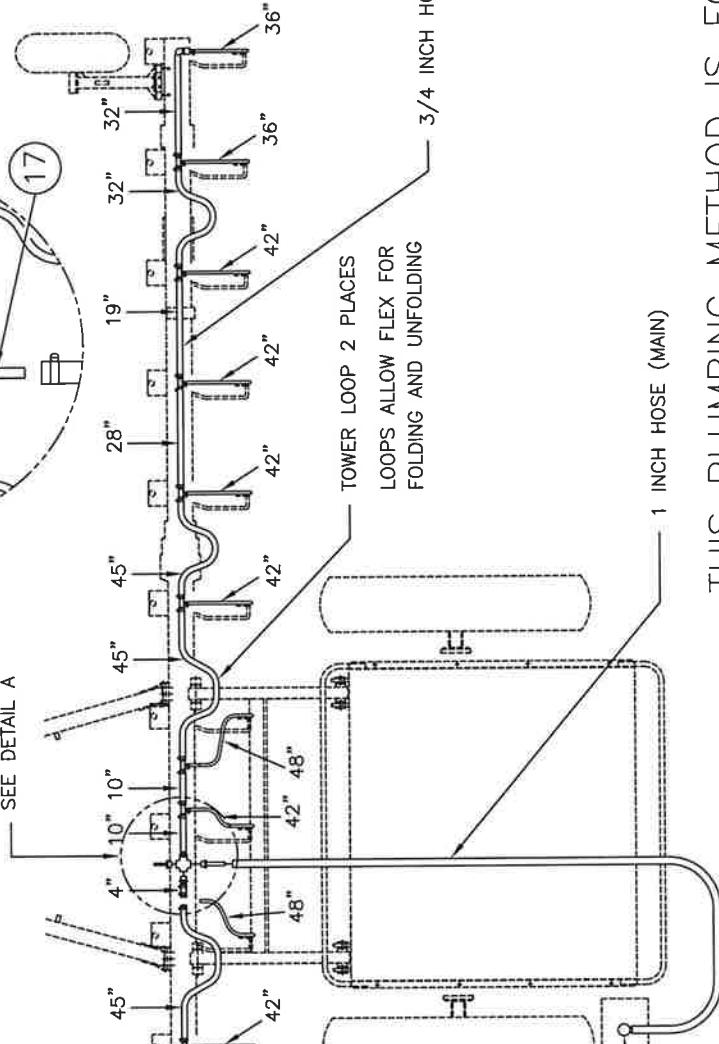
FOR HIGH PRESSURE PLUMBING
SEE PAGES 25 AND 26

THIS PLUMBING METHOD IS FOR
35 GAL PER ACRE MAX CAPACITY

64KTOOLBARPLBG2
09-12-12



DETAIL



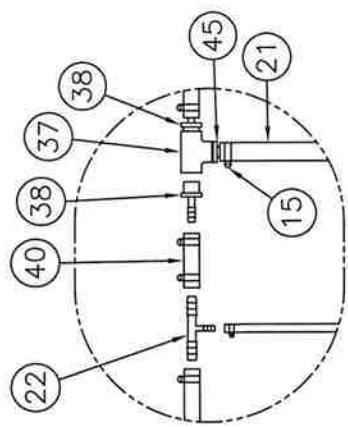
LOOPS ALLOW FLEX FOR FOLDING AND UNFOLDING

1 INCH HOSE (MAIN)

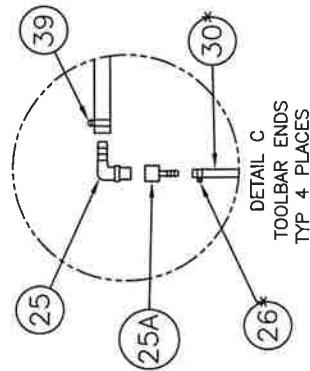
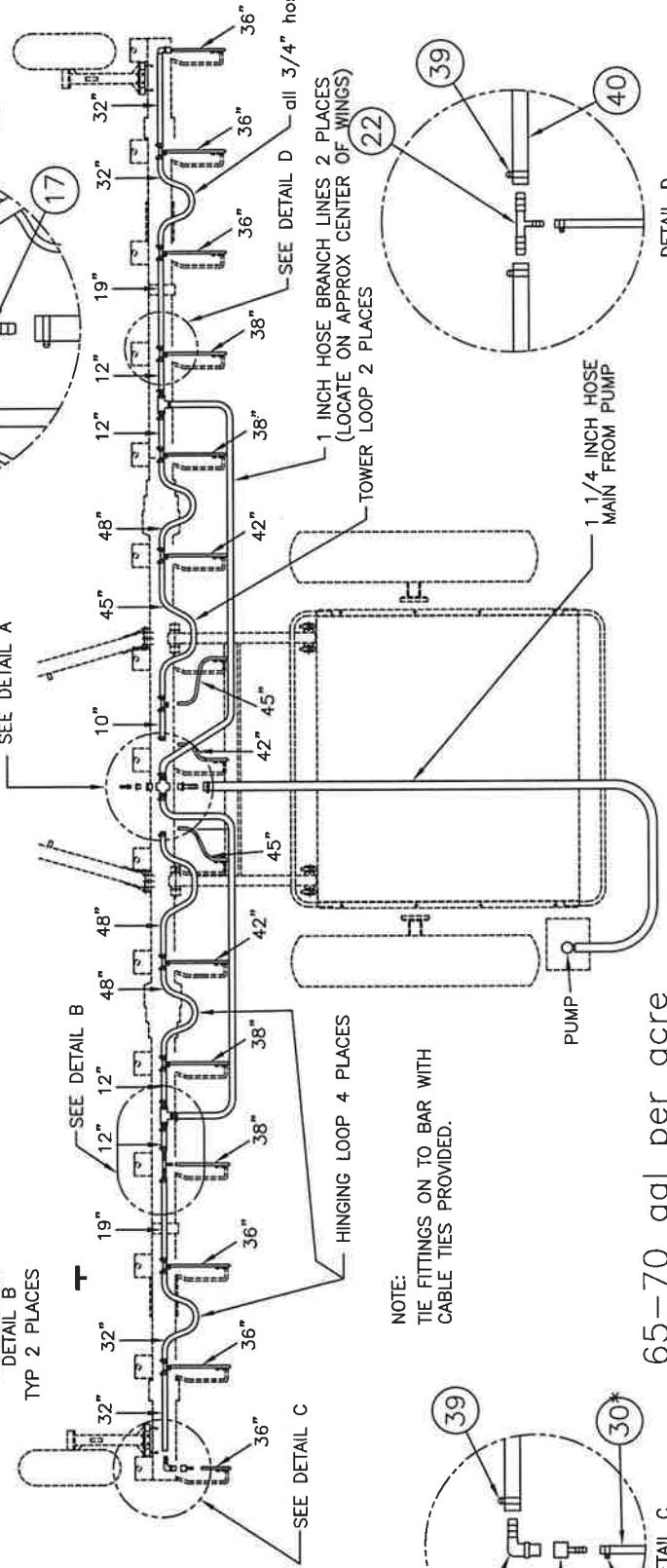
24

6400 SERIES TOOLBAR

WITH COULTERS FOR
LIQUID APPLICATION
BRANCH LINE METHOD
PLUMBING REFERENCE GUIDE
(WITHOUT MANIFOLD)
(SEE 6400LQAPP.HL FOR PARTS
ON PAGE 25 OF THIS MANUAL)



SEE DETAIL A



SEE DETAIL C
TOOLBAR ENDS
TYP 4 PLACES

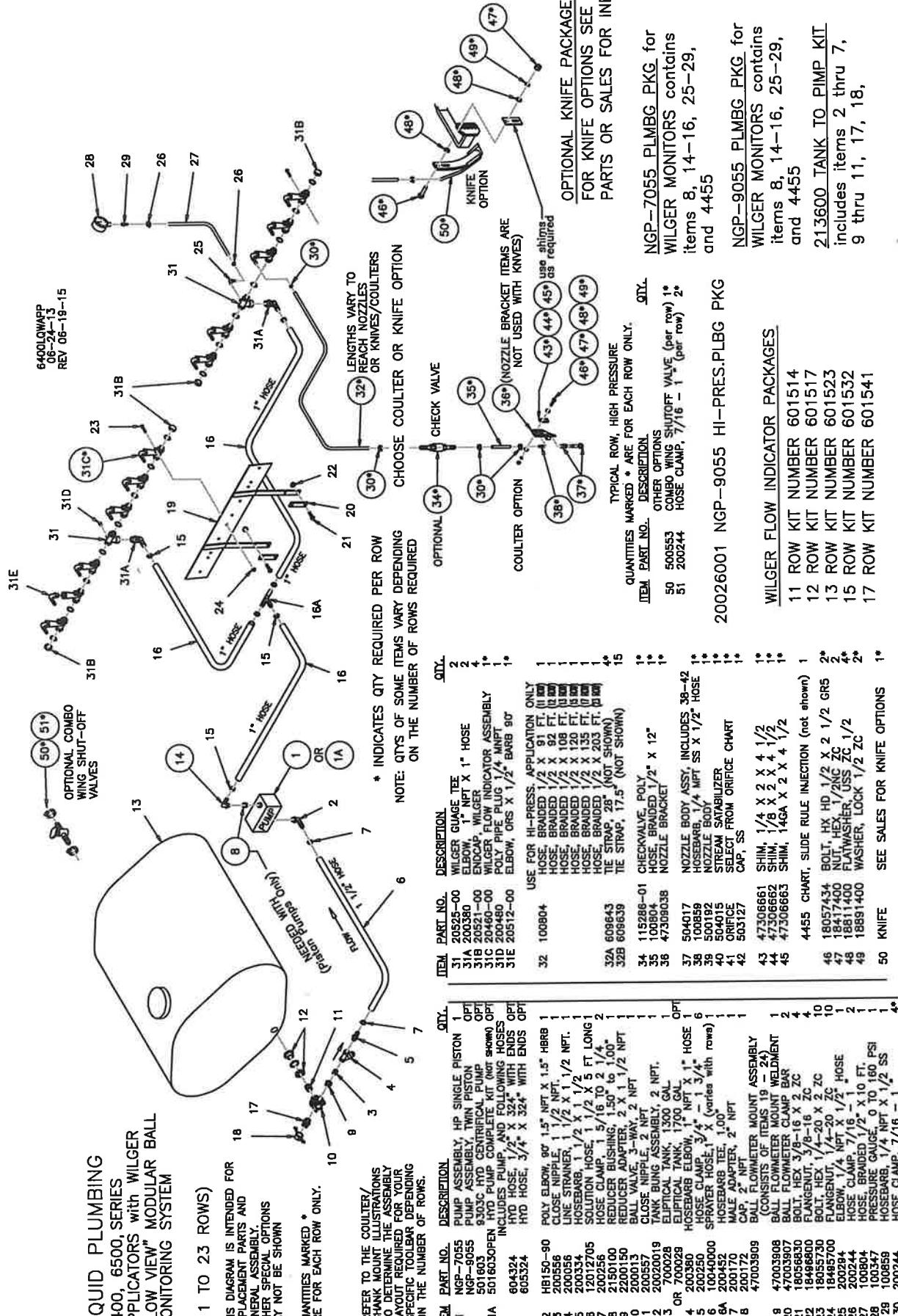
DETAIL D
TYP 11 PLACES

65–70 gal per acre
with Raven system
20 gal @ 40 psi
40 gal @ 80 psi

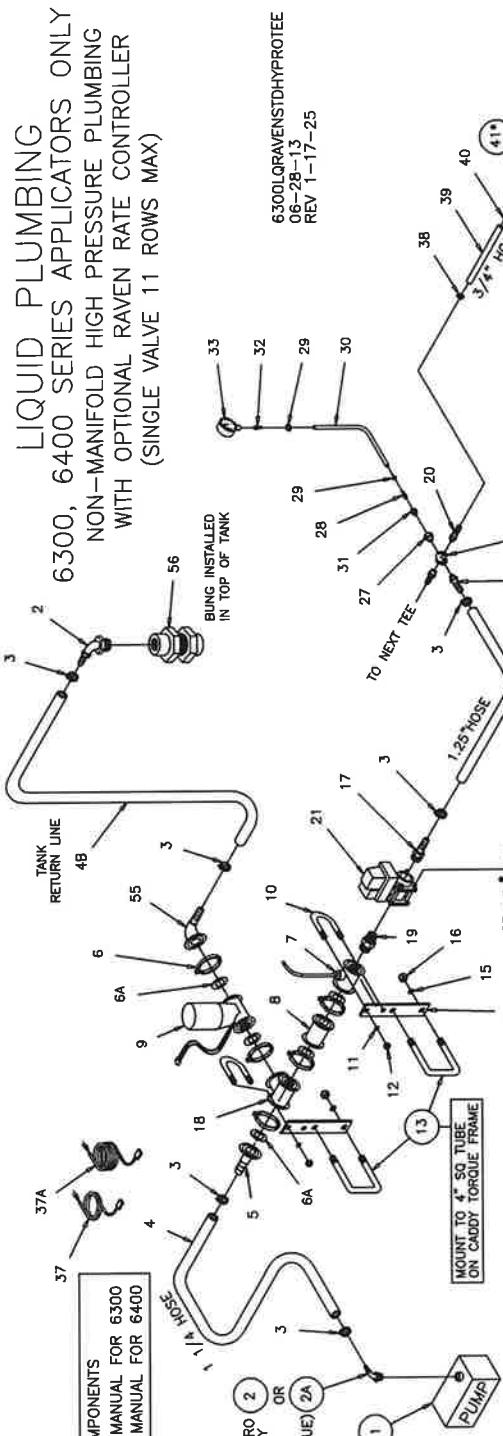
AG37 COULTERS
15 ROWS SHOWN
AT 30 INCH SPACING

LIQUID PLUMBING
6400, 6500, SERIES
APPLICATORS with WILGER
"FLOW VIEW" MODULAR BALL
MONITORING SYSTEM

(11 TO 23 ROWS)
THIS DIAGRAM IS INTENDED
REPLACEMENT PARTS AND
GENERAL ASSEMBLY.
OTHER SPECIAL OPTIONS
MAY NOT BE SHOWN
QUANTITIES MARKED *
ARE FOR EACH ROW ONLY.



**LIQUID PLUMBING
FOR TANK TO PUMP COMPONENTS**
SEE PAGE 22 OF 6300 MANUAL FOR 6300
SEE PAGE 23 OF 6400 MANUAL FOR 6400



FOR TANK TO PUMP COMPONENTS
SEE PAGE 22 OF 6300 MANUAL FOR 6300
SEE PAGE 23 OF 6400 MANUAL FOR 6400

ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
1	NCP-7055	PUMP ASSEMBLY, SINGLE PISTON	34	609639	SHORT WIRE TIE, 17.5" (NOT SHOWN)
2	NGP-7055	PUMP ASSEMBLY, TWIN PISTON ONLY	35	609643	LONG WIRE TIE, 28" (NOT SHOWN)
3	501603	HYDRAULIC CENTRIFUGAL PUMP COMPLETE KIT (NOT SHOWN)	36	12010179	FM PACKARD CONNECTOR (NOT SHOWN)
4	501603OPEN	HYD. PUMP COMPLETE KIT (NOT SHOWN)	36A	12010179	M PACKARD CONNECTOR (NOT SHOWN)
5	INCLUDES	PUMP, AND THE FOLLOWING HOSES	36B	12089879	CABLE SEAL (NOT SHOWN)
6	604324	OPT	36C	12010300	CAVITY PLUG (NOT SHOWN)
7	604324	OPT	36D	12089040	MALE TERMINAL PIN (NOT SHOWN)
8	605324	OPT	37	115-01171-085	CONSOLE CABLE
9	184171400	CHART, SLIDE RULE (NOT SHOWN)	37A	115-01171-12	FT CONTROL CABLE
10	47005791	HOSEBARB ELBOW, 1.25MT X 1.25HS	38	200250	HOSE CLAMP, 3/4" - 1 3/4"
11	18891200	HOSEBARB ELBOW, 1.50 MT X 1.25HS	39	200250	HOSE CLAMP, 3/4" X - 1 3/4"
12	18436800	HOSE CLAMP, 1 1/2" - 2" ID	40	200250	HOSE CLAMP, 3/4" - 1 3/4"
13	47006487	SPRAYER HOSE, 1.25" X 20 FT LONG	41	HB1075-050	HOSEBARB TEE
14	47003911	SPRAYER HOSE, 1.25" X 5 FT LONG	41A	200376	ELBOW, 3/4 NPT X 3/4 HOSE
15	18891400	SPRAYER HOSE, 1.25" X 7 FT LONG	41B	200449	FEMALE HOSEBARB 3/4 NPT X 1/2
16	18417400	HOSEBARB, 1.25" HOSE X 2 FLANGE	42	OMITTED	
17	HB150-125-90	HOSECLAMP, 2"	43	200244	HOSECLAMP, 7/16-10"
18	303196	FLANGE, EPDM	44	100804	TUBING, BRAIDED EVA 1/2" X 4 FT
19	21150125	GASKET, 2", FLANGE	45	100859	HOSEBARB /4 NPT X 1/2" SS
20	HB125-075	REDUCER COUPLING, 2" TO 1 1/4"	46	47309038	NOZZLE BRACKET
21	VE125	HOSEBARB, 1 1/4 MPT X 3/4 HOSE	47	504017	NOZZLE ASSY INCLUDES (1) EACH OF THE FOLLOWING PARTS LISTED BELOW
22	210271	VALVE, ELECTRIC, ON/OFF			
23	18891200	VALVE, SERVO RAVEN			
24	18436800	LOCKWASHER, 3/8" ZC			
25	1872019	NUT, HEX 3/8-16 ZC			
26	250125	U-BOLT, 1/2" NC			
27	212510	BRACKET, RAVEN HYDRO KIT			
28	200294	WASHER, LOCK 1/2" NC ZC			
29	290463	NUT, HEX 1/2-13 NC ZC			
30	100804	HOSEBARB 1 1/4 MPT X 1 1/4 HOSE	48	180574-4	BOLT, HEX 1/2NC X 2 1/2 GR5 ZC
31	210025	TEE, 2" FLANGED POLY	49	18811400	FLATWASHER, 1/2 INCH ZC
32	100859	REDUCER COUPLING, 2" TO 1 1/4"	50	18811400	LOCKWASHER, 1/2 INCH ZC
33	100347	HOSEBARB, 1 1/4 MPT X 3/4 HOSE	51	18811400	NUT, HEX 1/2 NC ZC
		VALVE, ELECTRIC, ON/OFF	52	47306661	SHIM, 1/16"
		VALVE, BRACKET	52*	47306662	SHIM, 1/16"
		LOCKWASHER, 3/8 ZC	53	11528663	CHECKVALVE, POLY W HOSEBARBS
		NUT, HEX 3/8-16NC ZC	54	115286-01	CHECKVALVE, POLY W HOSEBARBS
		SCREW, SELF TAPPING, 1/4 x 1/2	54	100804-1	FLATWASHER, 1/2" X 1 FT
		POLY CROSS, 1 1/4	55	290430	2" FLANGED ELBOW, 90°
		REDUCER BUSHING, 1 1/4 X 1	56	290507	TOP TANK BUNG, 1 1/4"

ITEMS #10 THRU 16 ARE AVAILABLE AS KIT P/N: 719633

ITEMS MARKED * ARE FOR ONE ROW ONLY.
MULTIPLY X NUMBER OF ROWS.

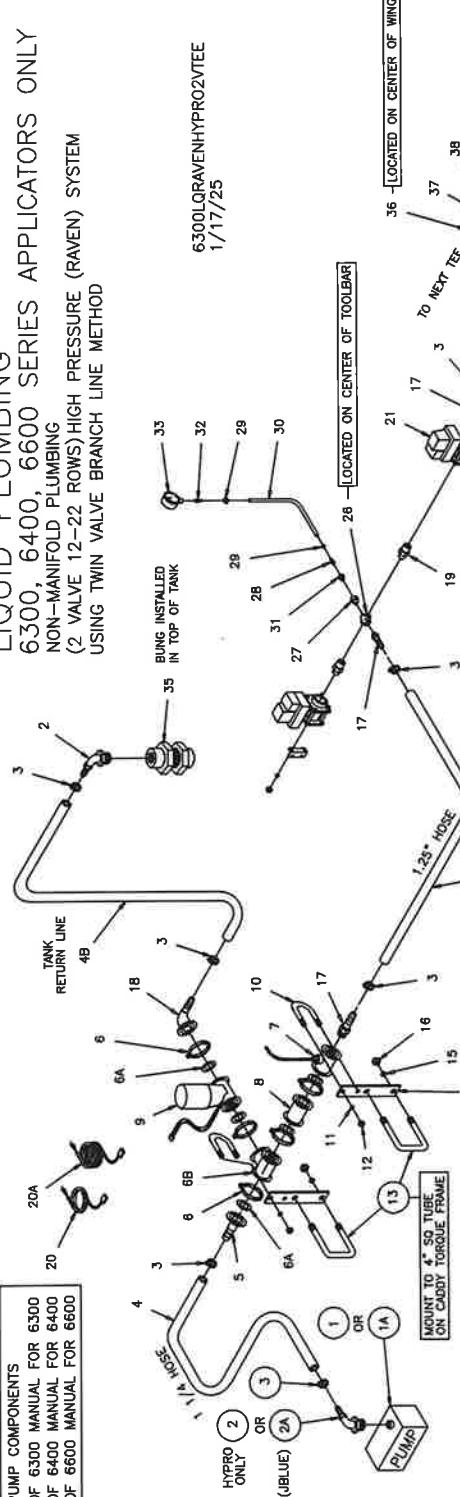
ITEMS #10 THRU 16 ARE AVAILABLE AS KIT P/N: 719633

SEE TOOLBAR PLUMBING REFERENCE GUIDE
FOR GENERAL TOOLBAR PLUMBING

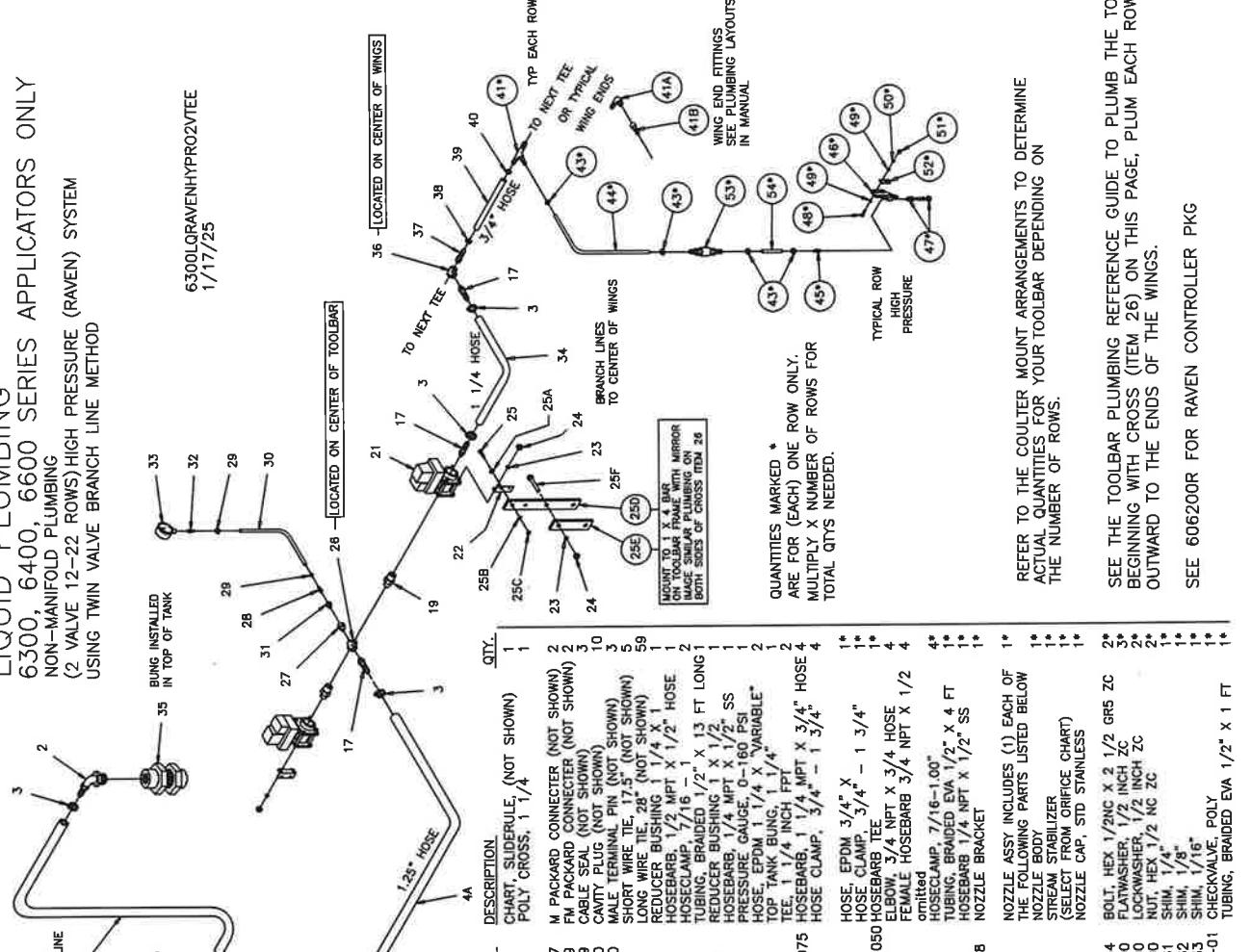
FOR TANK TO PUMP COMPONENTS
 SEE PAGE 22 OF 6300 MANUAL FOR 6300
 SEE PAGE 23 OF 6400 MANUAL FOR 6400
 SEE PAGE 27 OF 6600 MANUAL FOR 6600

**LIQUID PLUMBING
6300, 6400, 6600 SERIES APPLICATORS ONLY**
NON-MANIFOLD PLUMBING
(2 VALVE 12-22 ROWS) HIGH PRESSURE (RAVEN) SYSTEM
USING TWIN VALVE BRANCH LINE METHOD

FOR TANK TO PUMP COMPONENTS
SEE PAGE 22 OF 6300 MANUAL FOR 6300
SEE PAGE 23 OF 6400 MANUAL FOR 6400
SEE PAGE 27 OF 6600 MANUAL FOR 6600



PART NO.	DESCRIPTION
NOP-7055	SINGLE PISTON PUMP ASSEMBLY, TWIN PISTON PUMP ASSEMBLY
NOP-9055	HYDRO PUMP ONLY (930C)
5011603	HYPRO PUMP COMPLETE, KIT (NOT SHOWN)
501603099	INCLUDES PUMP & THE FOLLOWING HYD HOSE
605324	HYD HOSE W ENDS, 1/2" X 324"
605324	HYD HOSE W ENDS, 3/4" X 324"
HB1125-90	HOSEBARB ELBOW, 1.25MPT X 1.25HFT HB115-90 HBRB ELBOW, 1.50 MPT-1.25SHS
2A	HOSE CLAMP, 1/2"- 2" ID
JA	HOSE CLAMP, 1/2"- 2" ID
2A	HOSE CLAMP, 1/2"- 2" ID
JA	HOSE CLAMP, 1/2"- 2" ID
2A	HOSE CLAMP, 1/2"- 2" ID
JA	HOSE CLAMP, 1/2"- 2" ID
4	SPRAYER HOSE, 1.25" X 5 FT LONG
4A	SPRAYER HOSE, 1.25" X 5 FT LONG
5	SPRAYER HOSE, 1.25" X 7 FT LONG
5	HOSEBARB, 1.25" X 2 FT LONG
6	HOSECLAMP, 2" FLANGE
6	GASKET, 2" FLANGE EPDM
6A	TEE, FLANGE 2" X 2" X 2"
6B	FLANGE 2" X 2" X 2"
7	1/2"-06-1/17-79 FLIMMETER, 2" X 2"
8	25041-01 COUPLING, FLANGE, 2" X 2"
9	25041-01-071-1894 VALVE, SERVO RAVEN
10	479993911 RAVEN HYDRO MOUNTING KIT (INCLUDES ITEMS 10 THRU 16 THRU 23-25F)
11	40105791 U-CALM, NAPA (73-53-564)
11	18891200 LOCKWASHER, 3/8" ZC
12	18891200 U-BOLT, 1/2" NC
13	18891200 U-BOLT, 1/2" NC
13	18891200 U-BOLT, 1/2" NC
13	18891200 U-BOLT, 1/2" NC
14	47006487 BRACKET, RAVEN HYDRO KIT
14	47003911 WASHER, LOCK 1/2" ZC
15	18891200 WASHER, LOCK 1/2" ZC
16	18417400 NUT, HEX 1/2-13 NC
17	HB1125-90 HOSEBARB, 1" 1/4 MPT X 1 1/4" HOS
17	2" DRAINED ELBOW SPC (1235) ROSE
18	CLOSENIPPLE, 1" 1/4 MPT X 1 1/4" HOS
18	20055555 CONSOLE, CABLE
19	20055555 115-01-071-0051 12 FT CONTROL CABLE
20	20055555 115-01-071-0052 12 FT CONTROL CABLE
20B	63-01-071-183 440 ELECTRIC, CONSOLE (NOT SHOWN)
21	VALVE, ELECTRIC, ON/OFF
22	VALVE BRACKET, CHROME
23	18891200 LOCKWASHER, 3/8" ZC
23	NUT, HEX 3/8"-16NC ZC
24	18436380 BOLT, 1" HEX 1/4-20 X 1 1/4" ZC
25	180557722 BOLT, 1" HEX 1/4-20 X 1 1/4" ZC
25A	18811000 LOCKWASHER, 1/4" ZC
25B	18891000 LOCKWASHER, 1/4" ZC
25B	18435700 NUT, 1/2-20 ZC
25D	47003940 BRACKET, ELEC. VALVE MOUNT
25E	47003941 CLAMP BRACKET, ELEC. VALVE MINT
25E	18055836 BOLT, 1" HEX 3/8-16 X 2" ZC



LIQUID PLUMBING

6400 AND 6500 SERIES APPLICATORS

(HIGH AND LOW PRESSURE SHOWN)

FOR ALTERNATE GAUGE

MOUNTINGS, REFER TO THE

"MANIFOLD ASSEMBLY"

ILLUSTRATIONS ON FOLLOWING PAGES

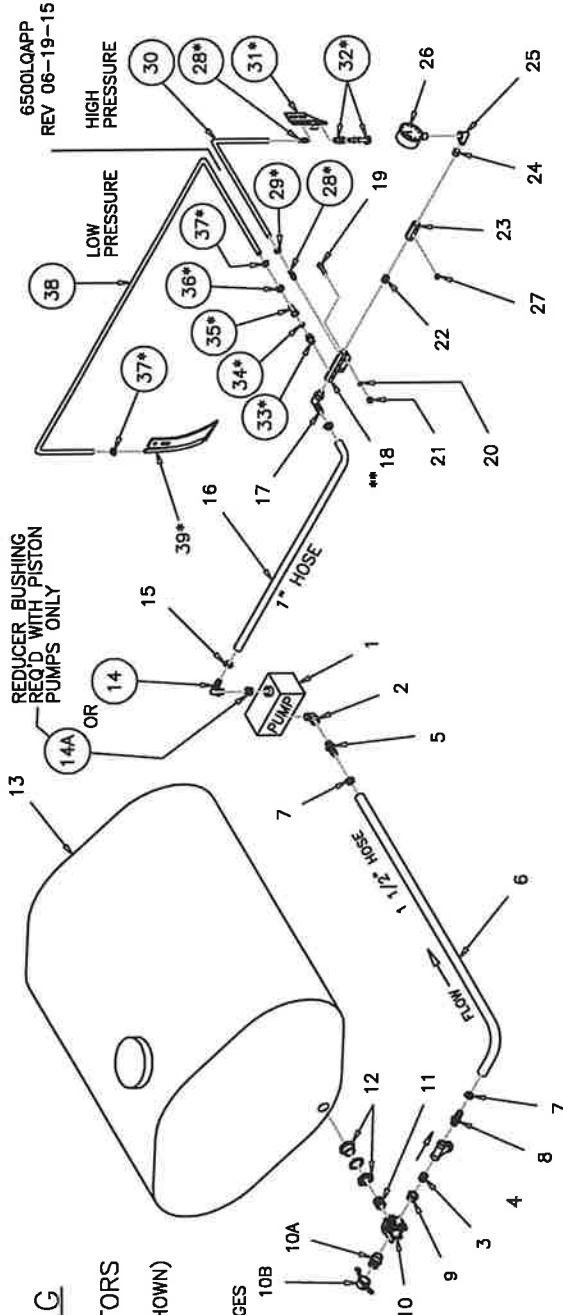
QUANTITIES MARKED *

ARE FOR EACH ROW ONLY.

COMPONENTS FOR LOW AND
HIGH PRESSURE UNITS
ARE SHOWN.

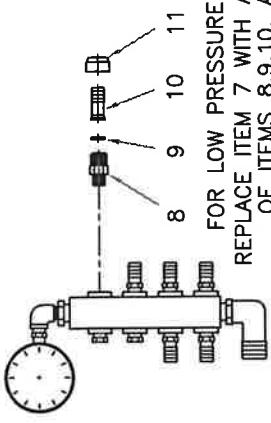
REFER TO THE "MANIFOLD"
ASSEMBLY ILLUSTRATIONS*
TO HELP DETERMINE THE
COMPONENT QUANTITIES NEEDED
FOR YOUR SPECIFIC TOOLBAR.

13 REDUCER BUSHING
REQD WITH PISTON



6500L0APP
REV 06-19-15

ITEM	PART NO.	DESCRIPTION	QTY.	ITEM	PART NO.	DESCRIPTION	QTY.
1	NGP-7055	PUMP ASSEMBLY, HP SINGLE PISTON OPT.	1	1	HOSE, BRAIDED 1/2 X 48 FT. (12 MM)	48	1
	NGP-9055	PUMP ASSEMBLY, TWIN PISTON OPT.	1	2	HOSE, BRAIDED 1/2 X 52 FT. (13 MM)	52	
1A	501603	9303C HYD CENTRIFICAL PUMP OPT.	1	3	HOSE, BRAIDED 1/2 X 56 FT. (14 MM)	56	
	501630OPEN	9303C HYD CENTRIFICAL PUMP PKG. OPT.	1	4	HOSE, BRAIDED 1/2 X 60 FT. (15 MM)	60	
	501630C	INCLUDES PUMP & FOLLOWING HOSES	1	5	HOSE, BRAIDED 1/2 X 64 FT. (16 MM)	64	
	604324	HYD HOSE W ENDS, 1/2" X 324" OPT.	1	6	NOZZLE BRACKET	46	
	605324	HYD HOSE W ENDS, 3/4" X 324" OPT.	1	7	NOZZLE BODY, INCLUDES (1) EACH OF	49	
	213600	STREET PUMP PKG. (ITEMS 2 thru 11)	1	8	STREAM STABILIZER	47	
2	200888	TANK TO PUMP PKG. (ITEMS 2 thru 11)	1	9	SELECT FROM ORIFICE CHART	43	
3	200556	CLOSE NIPPLE, 1 1/2" NPT. X 1 1/2" NPT.	1	10	CAP, HOSEBARB	503127	
4	200056	LINE STRAINER, 1 1/2" X 1 1/2" NPT.	1	11	HOSE CLAMP, 7/16 TO 7/8" CAP, HOSEBARB	503122	
5	200334	HOSEBARB, 1 1/2" X 1 1/2" X 10 FT.	1	12	TUBING, EVA 1/2 X 44 FT. (11 MM)	500192	
6	12012705	SOLUTION HOSE, 1 1/2" X 2 1/4" FT.	1	13	ORIFICE NOZZLE BODY, SS	504017	
7	200256	HOSE CLAMP, 1 5/16" TO 2 1/4" FT.	2	14	SELECT FROM ORIFICE CHART	500643	
8	200334	HOSEBARB, 1 1/2" X 1 1/2" X 10 FT.	1	15	NOZZLE INSERT	503227	
9	2200150	REDUCER ADAPTER, 2" X 1 1/2" NPT.	1	16	CAP, HOSEBARB	503127	
10	200013	BALL VALVE, 3-WAY, 2" NPT.	1	17	TUBING, EVA 1/2 X 48 FT. (12 MM)	500192	
10A	200170	MALE ADAPTER, 2" NPT.	1	18	TUBING, EVA 1/2 X 52 FT. (13 MM)	504015	
10B	200172	CAP, 2" NPT.	1	19	TUBING, EVA 1/2 X 56 FT. (14 MM)	503227	
11	200557	CLOSE NIPPLE, 2" NPT.	1	20	TUBING, EVA 1/2 X 60 FT. (15 MM)	503127	
12	2020019	TANK BUNG ASSEMBLY, 2" NPT.	1	21	TUBING, EVA 1/2 X 64 FT. (16 MM)	500192	
13	700028	ELIPTICAL TANK, 1300 GAL.	1	22	TUBING, EVA 1/2 X 68 FT. (17 MM)	503127	
OR	700029	ELIPTICAL TANK, 1700 GAL.	1	23	AS SPECIFIED	500192	
14	HB150-125-90	HOSEBRB ELBOW, 1.50"FT X 1.25" HS	1	24	ITEMS 28 TO 32 USE FOR HI-PRESS. APPLICATION ONLY	50*	
14A	HB125-90	HOSEBRB ELBOW, 1 1/2"FT X 1 1/2" HS	1	25	DISTRIBUTION MANIFOLD OPTIONS	51*	
15	200248	HOSE CLAMP, 11/16" TO 1 1/2" HS	2	26	MANIFOLD BRACKET, FORMED STL.	1	
16	10040000	SPRAYER HOSE, 1" X 14 FT.	1	27	LOCKWASHER, 3/8-16NC.	2	
17	200367	HOSEBARB ELBOW, 1 1/2" NPT. X 1 1/2" NPT.	1	28	LOCKWASHER, 3/8-16NC.	2	
18	47008033	MANIFOLD, (8) PORT, S.S.	1	29	HEX NUT, 3/8-16NC.	2	
19	18986832	3/8-16 NC X 1 1/4" BOLT, S.S.	2	30	MANIFOLD BRACKET, S.S. TEE OR.	2	
20	18881201	3/8-16 NC LOCKWASHER, S.S.	2	31	LOCKWASHER, 3/8-16NC.	2	
21	18476800	3/8-16 NC, HEX, NUT, S.S.	2	32	MANIFOLD BRACKET, BLK STL TEE OPT.	2	
22	200714	CLOSE NIPPLE, 1/2" NPT, S.S.	2	33	U-BOLT, 1/2-13NC.	2	
23	47008035	MANIFOLD, (4) PORT, S.S.	1	34	LOCKWASHER, 1/2-13NC.	2	
24	200810	REDUCING BUSHING, 1/2" X 1/4" NPT.	1	35	HEX, NUT, 1/2-13NC.	2	
25	200771	STREET ELBOW, 1/4" NPT. X 30 FT.	1	36	ITEMS 28 TO 32 USE FOR HI-PRESS. APPLICATION ONLY	50*	
26	100347	PRESSURE GAUGE, 0 TO 150 PSI.	1	37	DISTRIBUTION MANIFOLD OPTIONS	51*	
27	200826	PLUG, 1/4" NPT, S.S.	1	38	MANIFOLD BRACKET, FORMED STL.	1	
		AS REQD.*		39	LOCKWASHER, 3/8-16NC.	2	
				40	ITEMS 28 TO 32 USE FOR HI-PRESS. APPLICATION ONLY	50*	
				41	DISTRIBUTION MANIFOLD OPTIONS	51*	
				42	MANIFOLD BRACKET, FORMED STL.	1	
				43	LOCKWASHER, 3/8-16NC.	2	
				44	HEX NUT, 3/8-16NC.	2	
				45	MANIFOLD BRACKET, S.S. TEE OR.	2	
				46	LOCKWASHER, 3/8-16NC.	2	
				47	MANIFOLD BRACKET, BLK STL TEE OPT.	2	
				48	U-BOLT, 1/2-13NC.	2	
				49	LOCKWASHER, 1/2-13NC.	2	
				50	HEX, NUT, 1/2-13NC.	2	
				51	ITEMS 28 TO 32 USE FOR HI-PRESS. APPLICATION ONLY	50*	
				52	DISTRIBUTION MANIFOLD OPTIONS	51*	
				53	MANIFOLD BRACKET, FORMED STL.	1	
				54	LOCKWASHER, 3/8-16NC.	2	
				55	HEX NUT, 3/8-16NC.	2	
				56	ITEMS 28 TO 32 USE FOR HI-PRESS. APPLICATION ONLY	50*	
				57	DISTRIBUTION MANIFOLD OPTIONS	51*	
				58	MANIFOLD BRACKET, FORMED STL.	1	
				59	LOCKWASHER, 3/8-16NC.	2	
				60	HEX NUT, 3/8-16NC.	2	
				61	ITEMS 28 TO 32 USE FOR HI-PRESS. APPLICATION ONLY	50*	
				62	DISTRIBUTION MANIFOLD OPTIONS	51*	
				63	MANIFOLD BRACKET, FORMED STL.	1	
				64	LOCKWASHER, 3/8-16NC.	2	
				65	HEX NUT, 3/8-16NC.	2	
				66	ITEMS 28 TO 32 USE FOR HI-PRESS. APPLICATION ONLY	50*	
				67	DISTRIBUTION MANIFOLD OPTIONS	51*	
				68	MANIFOLD BRACKET, FORMED STL.	1	
				69	LOCKWASHER, 3/8-16NC.	2	
				70	HEX NUT, 3/8-16NC.	2	
				71	ITEMS 28 TO 32 USE FOR HI-PRESS. APPLICATION ONLY	50*	
				72	DISTRIBUTION MANIFOLD OPTIONS	51*	
				73	MANIFOLD BRACKET, FORMED STL.	1	
				74	LOCKWASHER, 3/8-16NC.	2	
				75	HEX NUT, 3/8-16NC.	2	
				76	ITEMS 28 TO 32 USE FOR HI-PRESS. APPLICATION ONLY	50*	
				77	DISTRIBUTION MANIFOLD OPTIONS	51*	
				78	MANIFOLD BRACKET, FORMED STL.	1	
				79	LOCKWASHER, 3/8-16NC.	2	
				80	HEX NUT, 3/8-16NC.	2	
				81	ITEMS 28 TO 32 USE FOR HI-PRESS. APPLICATION ONLY	50*	
				82	DISTRIBUTION MANIFOLD OPTIONS	51*	
				83	MANIFOLD BRACKET, FORMED STL.	1	
				84	LOCKWASHER, 3/8-16NC.	2	
				85	HEX NUT, 3/8-16NC.	2	
				86	ITEMS 28 TO 32 USE FOR HI-PRESS. APPLICATION ONLY	50*	
				87	DISTRIBUTION MANIFOLD OPTIONS	51*	
				88	MANIFOLD BRACKET, FORMED STL.	1	
				89	LOCKWASHER, 3/8-16NC.	2	
				90	HEX NUT, 3/8-16NC.	2	
				91	ITEMS 28 TO 32 USE FOR HI-PRESS. APPLICATION ONLY	50*	
				92	DISTRIBUTION MANIFOLD OPTIONS	51*	
				93	MANIFOLD BRACKET, FORMED STL.	1	
				94	LOCKWASHER, 3/8-16NC.	2	
				95	HEX NUT, 3/8-16NC.	2	
				96	ITEMS 28 TO 32 USE FOR HI-PRESS. APPLICATION ONLY	50*	
				97	DISTRIBUTION MANIFOLD OPTIONS	51*	
				98	MANIFOLD BRACKET, FORMED STL.	1	
				99	LOCKWASHER, 3/8-16NC.	2	
				100	HEX NUT, 3/8-16NC.	2	
				101	ITEMS 28 TO 32 USE FOR HI-PRESS. APPLICATION ONLY	50*	
				102	DISTRIBUTION MANIFOLD OPTIONS	51*	
				103	MANIFOLD BRACKET, FORMED STL.	1	
				104	LOCKWASHER, 3/8-16NC.	2	
				105	HEX NUT, 3/8-16NC.	2	
				106	ITEMS 28 TO 32 USE FOR HI-PRESS. APPLICATION ONLY	50*	
				107	DISTRIBUTION MANIFOLD OPTIONS	51*	
				108	MANIFOLD BRACKET, FORMED STL.	1	
				109	LOCKWASHER, 3/8-16NC.	2	
				110	HEX NUT, 3/8-16NC.	2	
				111	ITEMS 28 TO 32 USE FOR HI-PRESS. APPLICATION ONLY	50*	
				112	DISTRIBUTION MANIFOLD OPTIONS	51*	
				113	MANIFOLD BRACKET, FORMED STL.	1	
				114	LOCKWASHER, 3/8-16NC.	2	
				115	HEX NUT, 3/8-16NC.	2	
				116	ITEMS 28 TO 32 USE FOR HI-PRESS. APPLICATION ONLY	50*	
				117	DISTRIBUTION MANIFOLD OPTIONS	51*	
				118	MANIFOLD BRACKET, FORMED STL.	1	
				119	LOCKWASHER, 3/8-16NC.	2	
				120	HEX NUT, 3/8-16NC.	2	
				121	ITEMS 28 TO 32 USE FOR HI-PRESS. APPLICATION ONLY	50*	
				122	DISTRIBUTION MANIFOLD OPTIONS	51*	
				123	MANIFOLD BRACKET, FORMED STL.	1	
				124	LOCKWASHER, 3/8-16NC.	2	
				125	HEX NUT, 3/8-16NC.	2	
				126	ITEMS 28 TO 32 USE FOR HI-PRESS. APPLICATION ONLY	50*	
				127	DISTRIBUTION MANIFOLD OPTIONS	51*	
				128	MANIFOLD BRACKET, FORMED STL.	1	
				129	LOCKWASHER, 3/8-16NC.	2	
				130	HEX NUT, 3/8-16NC.	2	
				131	ITEMS 28 TO 32 USE FOR HI-PRESS. APPLICATION ONLY	50*	
				132	DISTRIBUTION MANIFOLD OPTIONS	51*	
				133	MANIFOLD BRACKET, FORMED STL.	1	
				134	LOCKWASHER, 3/8-16NC.	2	
				135	HEX NUT, 3/8-16NC.	2	
				136	ITEMS 28 TO 32 USE FOR HI-PRESS. APPLICATION ONLY	50*	
				137	DISTRIBUTION MANIFOLD OPTIONS	51*	
				138	MANIFOLD BRACKET, FORMED STL.	1	
				139	LOCKWASHER, 3/8-16NC.	2	
				140	HEX NUT, 3/8-16NC.	2	
				141	ITEMS 28 TO 32 USE FOR HI-PRESS. APPLICATION ONLY	50*	
				142	DISTRIBUTION MANIFOLD OPTIONS	51*	
				143	MANIFOLD BRACKET, FORMED STL.	1	
				144	LOCKWASHER, 3/8-16NC.	2	
				145	HEX NUT, 3/8-16NC.	2	
				146	ITEMS 28 TO 32 USE FOR HI-PRESS. APPLICATION ONLY	50*	
				147	DISTRIBUTION MANIFOLD OPTIONS	51*	
				148	MANIFOLD BRACKET, FORMED STL.	1	
				149	LOCKWASHER, 3/8-16NC.	2	
				150	HEX NUT, 3/8-16NC.	2	
				151	ITEMS 28 TO 32 USE FOR HI-PRESS. APPLICATION ONLY	50*	
				152	DISTRIBUTION MANIFOLD OPTIONS	51*	
				153	MANIFOLD BRACKET, FORMED STL.	1	
				154	LOCKWASHER, 3/8-16NC.	2	
				155	HEX NUT, 3/8-16NC.	2	
				156	ITEMS 28 TO 32 USE FOR HI-PRESS. APPLICATION ONLY	50*	
				157	DISTRIBUTION MANIFOLD OPTIONS	51*	
				158	MANIFOLD BRACKET, FORMED STL.	1	
				159	LOCKWASHER, 3/8-16NC.	2	
				160	HEX NUT, 3/8-16NC.	2	
				161	ITEMS 28 TO 32 USE FOR HI-PRESS. APPLICATION ONLY	50*	
				162	DISTRIBUTION MANIFOLD OPTIONS	51*	
				163	MANIFOLD BRACKET, FORMED STL.	1	
				164	LOCKWASHER, 3/8-16NC.	2	
				165	HEX NUT, 3/		

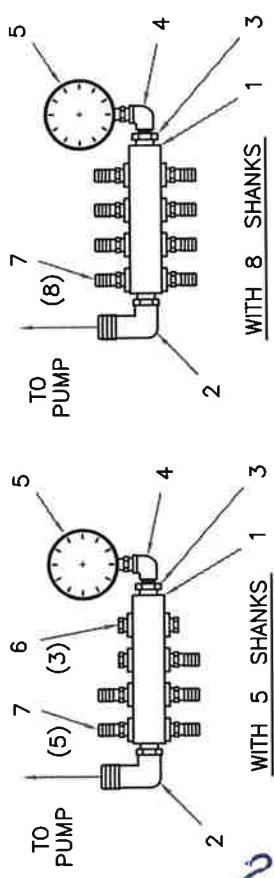


FOR LOW PRESSURE SYSTEM
REPLACE ITEM 7 WITH AN ASSEMBLY
OF ITEMS 8,9,10, AND 11

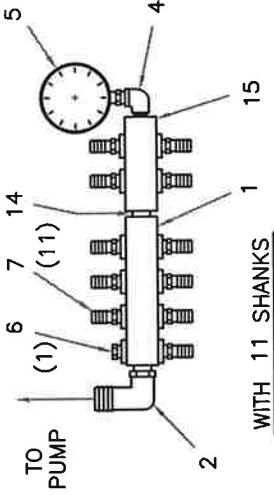
MNFLDSTNL5
ISSUE JUNE/2008

MANIFOLD ASSEMBLY ILLUSTRATION

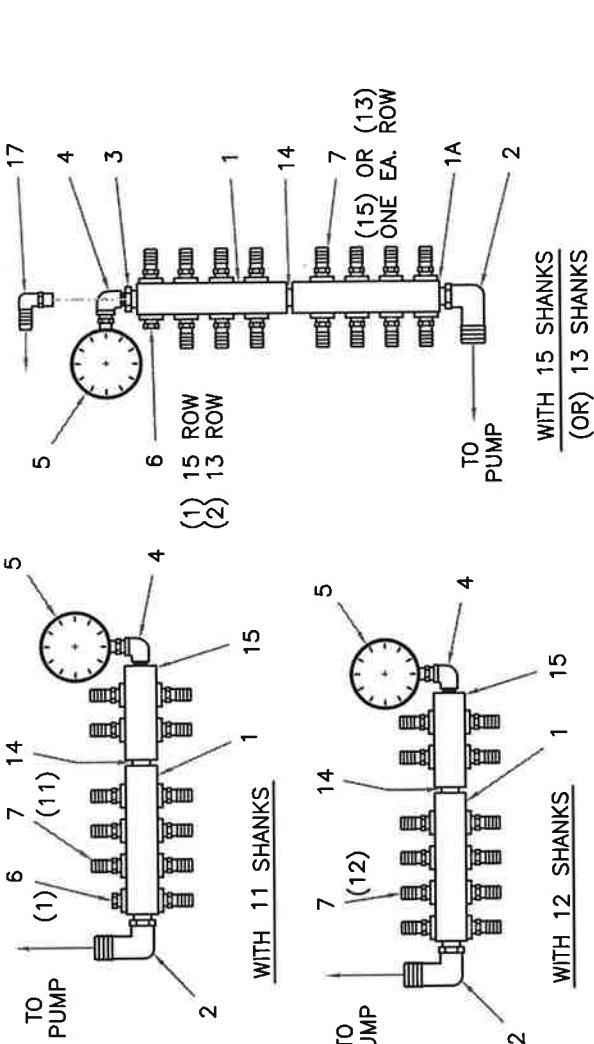
WITH STAINLESS STEEL MANIFOLD



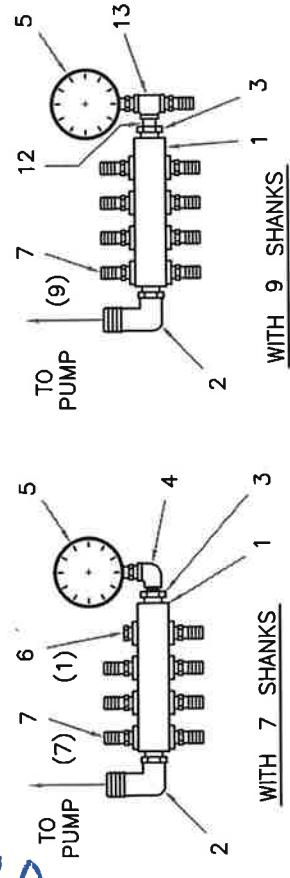
WITH 5 SHANKS



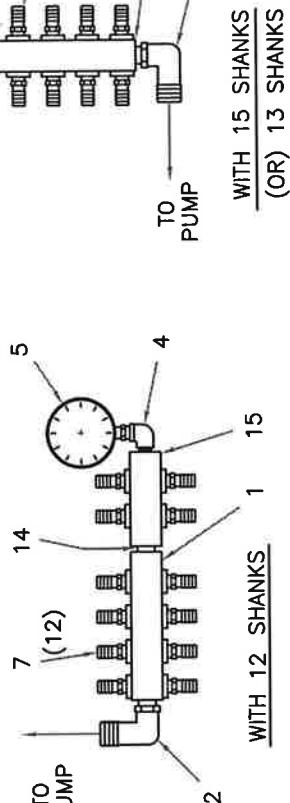
WITH 8 SHANKS



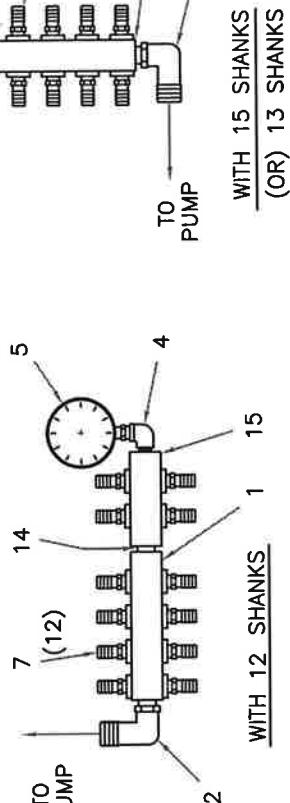
WITH 11 SHANKS



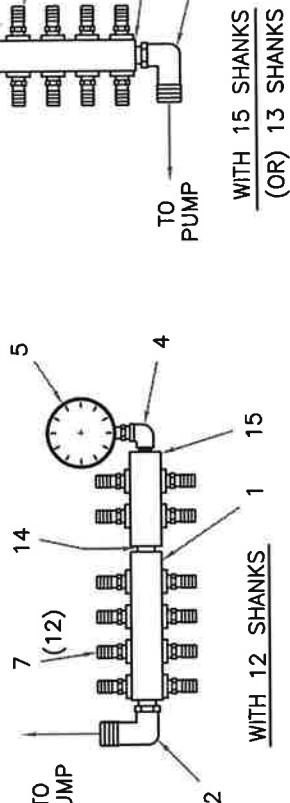
WITH 7 SHANKS



WITH 12 SHANKS



WITH 15 SHANKS



WITH 15 SHANKS
(OR) 13 SHANKS

ITEM	PART NO.	DESCRIPTION	QTY
8	500192	ADAPTER, NOZZLE BODY REFER TO ORIFICE CHART	*
9	500643	HOSEBARB INSERT, 1/2"	*
10	503127	CAP, HOSEBARB INSERT	*
11	200712	CLOSE NIPPLE, 1/4" NPT	1
12	200786	TEE, 1/4" NPT.	1
13	200714	CLOSE NIPPLE, 1/2" NPT.	1
14	47008035	MANIFOLD, (4) PORT	1
15	47008035	RED. BUSHING, 1/2" X 1/4" NPT.	1
16	200810	HOSEBARB ELBOW, 1/4" NPT, X 1/2" (POLY)	1
17	200348		

ITEM	PART NO.	DESCRIPTION	QTY
1	47008033	MANIFOLD, 8 OUTLET-W/ MTG. BRKT.	1
1A	47007490	MANIFOLD, 8 OUTLET-W/O MTG. BRKT.	1
2	200367	HOSEBARB ELBOW, 1/2" NPT. X 1	1
3	200810	RED. BUSHING, 1/2" X 1/4" NPT.	*
4	200771	STREET ELBOW, 1/4" NPT. X 90	*
5	500160	PRESSURE GAUGE, 0 TO 160	*
6	200826	PLUG, 1/4" NPT.	*
7	100859	HOSEBARB, 1/4" NPT. X 1/2	*

ITEM	PART NO.	DESCRIPTION	QTY
1	500192	ADAPTER, NOZZLE BODY {LO-PRESSURE}*	*
2	500643	REFRIGERANT CHART HOSEBARB INSERT, 1/2" {LO-PRESSURE}*	*
3	503127	CAP, HOSEBARB INSERT {LO-PRESSURE} ONLY	*
4	200712	CLOSE NIPPLE, 1/4" NPT	1
5	200786	TEE, 1/4" NPT.	1
6	200714	CLOSE NIPPLE, 1/2" NPT.	1
7	47008035	MANIFOLD, (4) PORT	1
14	47008035	RED. BUSHING, 1/2" X 1/4" NPT.	1
16	200810	HOSEBARB ELBOW, 1/4" NPT, X 1/2" (POLY)	1
17	200348		

29A

FOR QUANTITIES ON ITEMS MARKED *
REFER TO THE ILLUSTRATION THAT
SHOWS YOUR MANIFOLD ARRANGEMENT

Application Information Using 4916 Orifice Plates
(Table based on spraying 28% Nitrogen on 22 inch spacings)
****see conversion tables below for other weight solutions**

Orifice Plate No.	Pressure (psi)	Capacity Spraying 28% Nitrogen (GPM)	GPA Spraying 28% Nitrogen on 22 inch spacing						
			3 mph	4 mph	5 mph	6 mph	3 mph	4 mph	5 mph
4916-37	60	0.18	16.6	12.5	10.0	8.3	60	0.56	51
	80	0.21	18.9	14.2	11.3	9.5	80	0.65	59
	90	0.23	21	15.5	12.4	10.4	90	0.69	62
	100	0.24	22	16.2	13.0	10.8	100	0.73	66
4916-40	120	0.26	23	17.6	14.0	11.7	120	0.80	72
	60	0.22	19.8	14.9	11.9	9.9	60	0.62	55
	80	0.25	23	16.9	13.5	11.3	80	0.71	64
	90	0.27	24	18.2	14.6	12.2	90	0.75	68
4916-43	100	0.28	25	18.9	15.1	12.6	100	0.80	72
	120	0.31	28	21	16.7	14.0	120	0.87	78
	60	0.25	22	16.8	13.4	11.2	60	0.66	59
	80	0.29	26	20	15.7	13.1	80	0.76	68
4916-47	90	0.30	27	20	16.2	13.5	90	0.81	73
	100	0.32	29	22	17.3	14.4	100	0.85	77
	120	0.35	32	24	18.9	15.8	120	0.93	84
	60	0.30	27	20	16.0	13.3	60	0.75	67
4916-49	80	0.34	31	23	18.4	15.3	80	0.86	77
	90	0.36	32	24	19.4	16.2	90	0.92	83
	100	0.38	34	26	21	17.1	100	0.97	87
	120	0.42	38	28	23	18.9	120	1.06	95
4916-52	60	0.32	29	21	17.2	14.3	60	0.85	77
	80	0.37	33	25	20	16.7	80	0.99	89
	90	0.39	35	26	21	17.6	90	1.05	95
	100	0.41	37	28	22	18.5	100	1.10	99
4916-55	120	0.45	41	30	24	20	120	1.21	109
	60	0.36	32	24	19.5	16.2	60	0.97	87
	80	0.42	38	28	23	18.9	80	1.12	101
	90	0.44	40	30	24	20	90	1.19	107
4916-59	100	0.47	42	32	25	21	100	1.25	113
	120	0.51	46	34	28	23	120	1.37	123
	60	0.41	37	27	22	18.3	60	1.06	95
	80	0.47	42	32	25	21	80	1.22	110
4916-61	90	0.50	45	34	27	23	90	1.44	130
	100	0.52	47	35	28	23	100	1.36	122
	120	0.57	51	38	31	26	120	1.49	134
	60	0.43	39	29	23	19.4	60	1.18	106
4916-65	80	0.50	45	34	27	23	80	1.36	122
	90	0.53	48	36	29	24	90	1.44	130
	100	0.56	50	38	30	25	100	1.52	137
	120	0.61	55	41	33	27	120	1.67	150
4916-69	60	0.47	42	31	25	21	60	1.23	111
	80	0.54	49	36	29	24	80	1.42	128
	90	0.57	51	38	31	26	90	1.51	136
	100	0.60	54	41	32	27	100	1.59	143
4916-73	120	0.66	59	45	36	30	120	1.74	157
	60	0.50	45	34	27	23	60	1.35	121
	80	0.58	52	39	31	26	80	1.55	140
	90	0.61	55	41	33	27	90	1.65	149
4916-77	100	0.65	59	44	35	29	100	1.74	157
	120	0.71	64	48	38	32	120	1.90	171

30

****Conversion Factors for Spraying Solutions other than 28% Nitrogen for use only with the Above GPA tables**

Weight of Solution	Conversion Factor	Conversion Factor
7.0 lbs./gal.	0.81	10.65 lbs./gal. - 28% N
8.0 lbs./gal.	0.87	11.00 lbs./gal.
8.34 lbs./gal. - Water	0.88	12.0 lbs./gal.
9.0 lbs./gal.	0.92	14.0 lbs./gal.
10.0 lbs./gal.	0.97	

Weight of Solution	Conversion Factor	Conversion Factor
10.65 lbs./gal. - 28% N	1.00	
11.00 lbs./gal.	1.01	
12.0 lbs./gal.	1.06	
14.0 lbs./gal.	1.14	

Orifice Plate No.	Pressure (psi)	Capacity Spraying 28% Nitrogen (GPM)	GPA Spraying 28% Nitrogen on 22 inch spacing						
			3 mph	4 mph	5 mph	6 mph	3 mph	4 mph	5 mph
4916-103	60	0.56	51	38	30	25	60	1.41	127
	80	0.65	59	44	35	29	80	1.63	147
	90	0.69	62	47	37	31	90	1.72	155
	100	0.73	66	49	39	33	100	1.82	164
4916-107	120	0.80	72	54	43	36	120	1.99	179
	60	0.62	55	42	33	28	60	1.58	143
	80	0.71	64	48	38	32	80	1.83	165
	90	0.75	68	51	41	34	90	1.94	175
4916-110	100	0.80	72	54	43	36	100	2.04	184
	120	0.87	78	59	47	39	120	2.24	202
	60	1.32	44	36	30	24	60	1.52	137
	80	1.41	51	41	34	27	80	1.62	146
4916-115	90	1.45	59	46	39	33	90	1.75	203
	100	1.53	65	50	41	34	100	1.95	215
	120	1.61	70	55	44	38	120	2.15	235
	140	1.71	76	60	53	48	140	2.35	255
4916-125	150	1.81	85	66	59	53	150	2.55	275
	160	1.90	90	72	60	54	160	2.72	295
	180	1.94	95	77	65	55	180	2.84	315
	200	2.01	100	82	68	56	200	2.97	335
4916-132	220	2.11	109	82	65	54	220	3.14	351
	240	2.19	114	87	72	57	240	3.34	367
	260	2.26	119	92	76	60	260	3.51	384
	280	2.33	124	97	80	65	280	3.68	399
4916-140	300	2.40	129	102	85	70	300	3.84	415
	320	2.47	134	107	90	75	320	4.01	431
	340	2.54	139	112	95	80	340	4.18	447
	360	2.61	144	117	100	85	360	4.35	463
4916-147	380	2.68	149	122	105	90	380	4.52	479
	400	2.75	154	127	110	95	400	4.69	495
	420	2.82	159	132	115	100	420	4.86	511
	440	2.89	164	137	120	105	440	5.03	527
4916-156	460	2.97	169	142	125	110	460	5.20	543
	480	3.04	174	147	130	115	480	5.37	559
	500	3.11	179	152	135	120	500	5.54	575
	520	3.18	184	157	140	125	520	5.71	591
4916-166	540	3.25	189	162	145	130	540	5.88	607
	560	3.32	194	167	150	135	560	6.05	623
	580	3.40	199	172	155	140	580	6.22	639
	600	3.47	204	177	160	145	600	6.40	655
4916-173	620	3.54	209	182	165	150	620	6.57	671
	640	3.61	214	187	170	155	640	6.75	687
	660	3.68	219	192	175	160	660	6.92	703
	680	3.75	224	197	180	165	680	7.09	719
4916-180	700	3.82	229	202	185	170	700	7.26	735
	720	3.89	234	207	190	175	720	7.43	751
	740	3.96	239	212	195	180	740	7.60	767
	760	4.03	244	217	200	185	760	7.77	783
4916-194	780	4.10	249	222	205	190	780	7.94	800
	800	4.17	254	227	210	195	800	8.11	816
	820	4.24	259	232	215	200	820	8.28	832
	840	4.31	264	237	220	205	840	8.45	848
4916-208	860	4.38	269	242	225	210	860	8.62	864
	880	4.45	274	247	230	215	880	8.79	880
	900	4.52	279	252	235	220	900	8.96	896
	920	4.60	284	257	2				

Application Information Using 4916 Orifice Plates
(Table based on spraying 28% Nitrogen on 30 inch spacings)
****see conversion tables below for other weight solutions**

Orifice Plate No.	Pressure (psi)	Capacity Spraying 28% Nitrogen (GPM)	GPA Spraying 28% Nitrogen on 30 Inch spacing							
			3 mph	4 mph	5 mph	6 mph	3 mph	4 mph	5 mph	6 mph
4916-37	60	0.18	12.2	9.1	7.3	6.1	0.56	37	28	19
	80	0.21	13.9	10.4	8.3	6.9	0.65	43	32	21
	90	0.23	15.2	11.4	9.1	7.6	0.69	46	34	23
4916-40	100	0.24	15.8	11.9	9.5	7.9	0.73	48	36	24
	120	0.26	17.2	12.9	10.3	8.6	0.80	53	40	32
	60	0.22	14.5	10.9	8.7	7.3	0.62	41	30	20
4916-43	80	0.25	16.5	12.4	8.9	8.3	0.71	47	35	23
	90	0.27	17.8	13.4	10.7	8.9	0.75	50	37	30
	100	0.28	18.5	13.9	11.1	9.2	0.80	53	40	32
4916-47	120	0.31	20	15.3	12.3	10.2	0.87	57	43	34
	60	0.25	16.4	12.3	9.8	8.2	0.66	44	33	22
	80	0.29	19.1	14.4	11.5	9.6	0.76	50	38	25
4916-50	90	0.30	20	14.9	11.9	9.9	0.81	53	40	32
	100	0.32	21	15.8	12.7	10.6	0.85	56	42	34
	120	0.35	23	17.3	13.9	11.6	0.93	61	46	37
4916-52	60	0.30	20	14.6	11.7	9.8	0.75	49	37	30
	80	0.34	22	16.8	13.5	11.2	0.86	57	43	34
	90	0.36	24	17.8	14.3	11.9	0.92	61	46	36
4916-55	100	0.38	25	18.8	15.0	12.5	0.97	64	48	38
	120	0.42	28	21	16.6	13.9	1.06	70	52	42
	60	0.32	21	15.7	12.6	10.5	0.85	56	42	35
4916-57	80	0.37	24	18.3	14.7	12.2	0.99	65	49	39
	90	0.39	26	19.3	15.4	12.9	1.05	69	52	42
	100	0.41	27	20	16.2	13.5	1.10	73	54	44
4916-59	120	0.45	30	22	17.8	14.9	1.21	80	60	48
	60	0.36	24	17.9	14.3	11.9	0.97	64	48	38
	80	0.42	28	21	16.6	13.9	1.12	74	55	44
4916-61	90	0.44	29	22	17.4	14.5	1.19	79	59	47
	100	0.47	31	23	18.6	15.5	1.25	83	62	50
	120	0.51	34	25	20	16.8	1.37	90	68	54
4916-62	60	0.41	27	20	16.1	13.4	0.96	70	52	42
	80	0.47	31	23	18.6	15.5	1.22	81	60	48
	90	0.50	33	25	20	16.5	1.29	85	64	51
4916-63	100	0.47	31	23	18.6	15.5	1.36	90	67	54
	120	0.51	34	25	20	16.8	1.49	98	74	59
	60	0.41	27	20	16.1	13.4	1.06	70	52	42
4916-64	80	0.47	31	23	18.6	15.5	1.22	81	60	48
	90	0.50	33	25	20	16.5	1.29	85	64	51
	100	0.52	34	26	21	17.2	1.36	90	75	60
4916-65	120	0.57	38	28	23	18.8	1.67	110	83	66
	60	0.43	28	21	17.1	14.2	1.23	81	61	49
	80	0.50	33	25	20	16.5	1.42	94	70	56
4916-66	90	0.53	35	26	21	17.5	1.51	100	75	60
	100	0.56	37	28	22	18.5	1.59	105	79	63
	120	0.61	40	30	24	20	1.74	115	86	69
4916-67	60	0.47	31	23	18.5	15.4	0.60	1.23	81	41
	80	0.54	36	27	21	17.8	1.36	90	75	50
	90	0.57	38	28	23	18.8	1.44	95	71	57
4916-68	100	0.60	40	30	24	20	1.60	100	100	50
	120	0.66	44	33	26	22	1.74	110	83	66
	60	0.502	33	25	20	16.6	0.80	1.35	89	67
4916-69	80	0.58	38	29	23	19.1	1.55	102	70	61
	90	0.61	40	30	24	20	1.65	109	82	65
	100	0.65	43	32	26	21	1.74	115	86	69
4916-70	120	0.71	47	35	28	23	1.90	125	94	75

b3

Weight of Solution	Conversion Factor	Weight of Solution	Conversion Factor
7.0 lbs./gal.	0.81	10.65 lbs./gal. - 28% N	1.00
8.0 lbs./gal.	0.87	11.00 lbs./gal.	1.01
8.34 lbs./gal. - Water	0.88	12.0 lbs./gal.	1.06
9.0 lbs./gal.	0.92	14.0 lbs./gal.	1.14

**Conversion Factors for Spraying Solutions other than 28% Nitrogen for use only with the Above GPA tables

Orifice Plate No.	Pressure (psi)	Capacity Spraying 28% Nitrogen (GPM)	GPA Spraying 28% Nitrogen on 30 inch spacing							
			3 mph	4 mph	5 mph	6 mph	3 mph	4 mph	5 mph	6 mph
4916-103	60	1.41	60	1.32	87	55	70	1.32	87	55
	80	1.63	80	1.52	100	60	90	1.52	100	60
	90	1.72	90	1.62	107	80	100	1.62	107	80
4916-107	60	1.58	60	1.83	121	91	70	1.83	121	91
	80	1.94	80	2.26	149	112	80	2.26	149	112
	90	2.04	100	2.36	158	118	100	2.36	158	118
4916-110	60	1.87	120	1.87	123	93	70	1.87	123	93
	80	2.13	80	2.26	141	105	80	2.26	141	105
	90	2.26	90	2.59	171	128	90	2.59	171	128
4916-115	60	2.11	120	2.11	129	103	80	2.11	129	103
	80	2.44	80	2.44	161	121	80	2.44	161	121
	90	2.59	90	2.59	171	128	90	2.59	171	128
4916-125	60	2.73	60	2.73	156	117	90	2.73	156	117
	80	3.15	80	3.15	180	135	90	3.15	180	135
	90	3.34	90	3.34	226	170	90	3.34	226	170
4916-140	60	3.44	100	3.44	220	165	100	3.44	220	165
	80	3.64	90	3.64	240	180	100	3.64	240	180
	90	3.84	100	3.84	232	174	100	3.84	232	174
4916-147	60	3.86	120	3.86	220	165	100	3.86	220	165
	80	4.21	120	4.21	278	208	100	4.21	278	208
	90	4.32	120	4.32	234	187	100	4.32	234	187
4916-156	60	3.34	60	3.34	221	166	100	3.34	221	166
	80	3.86	80	3.86	244	196	100	3.86	244	196
	90	4.10	90	4.10	271	203	100	4.10	271	203
4916-166	60	3.70	60	3.70	244	183	100	3.70	244	183
	80	4.27	80	4.27	282	211	100	4.27	282	211
	90	4.53	90	4.53	299	224	100	4.53	299	224
4916-173	60	4.77	100	4.77	315	236	100	4.77	315	236
	80	5.23	120	5.23	345	259	100	5.23	345	259
	90	5.7	120	5.7	345	259	100	5.7	345	259

Application Information Using 4916 Orifice Plates
 (Table based on spraying 28% Nitrogen on 38 inch spacings)
 **see conversion tables below for other weight solutions

Orifice Plate No.	Pressure (psi)	Capacity Spraying 28% Nitrogen (GPM)	GPA Spraying 28% Nitrogen on 38 inch spacing	GPA Spraying 28% Nitrogen on 38 inch spacing						GPA Spraying 28% Nitrogen on 38 inch spacing						GPA Spraying 28% Nitrogen on 38 inch spacing					
				3 mph			4 mph			5 mph			6 mph			3 mph			4 mph		
				3	4	5	3	4	5	3	4	5	3	4	5	3	4	5	3	4	5
4916-37	60	0.18	9.6	7.2	5.8	4.8	60	0.56	29	22	17.6	14.6	60	1.41	75	56	44	37	51	42	
	80	0.21	10.9	8.2	5.6	5.5	80	0.65	34	25	20	16.9	80	1.63	85	64	51	45	54	45	
	90	0.23	12.0	9.0	7.2	8.0	90	0.69	36	27	22	18.0	90	1.72	90	67	51	57	57	47	
	100	0.24	12.5	9.4	7.5	6.3	100	0.73	38	29	23	19.0	100	1.82	95	71	57	57	61	51	
	120	0.26	13.5	10.2	8.1	6.8	120	0.80	42	31	25	21	120	1.99	104	78	62	52	52	52	
4916-40	60	0.22	11.5	8.6	6.9	5.7	60	0.62	32	24	19.3	16.0	60	1.68	83	62	50	41	51	42	
	80	0.25	13.0	9.8	7.8	6.5	80	0.71	37	28	22	18.5	80	1.83	95	72	57	48	51	45	
	90	0.27	14.1	10.6	8.4	7.0	90	0.75	39	29	23	19.5	90	1.94	101	76	61	51	51	45	
	100	0.28	14.6	10.9	8.8	7.3	100	0.80	42	31	25	21	100	2.04	105	80	64	53	53	47	
	120	0.31	16.2	12.1	9.7	8.1	120	0.87	45	34	27	23	120	2.24	117	88	70	58	58	52	
4916-43	60	0.25	12.9	9.7	7.8	6.5	60	0.66	34	26	21	17.2	60	1.32	69	52	41	34	51	42	
	80	0.29	15.1	11.3	9.1	7.6	80	0.76	40	30	24	19.8	80	1.62	79	59	48	40	51	42	
	90	0.30	15.6	11.7	9.4	7.8	90	0.81	42	32	25	21	90	1.62	84	63	51	42	51	42	
	100	0.32	18.7	12.5	10.0	8.3	100	0.85	44	33	27	22	100	1.70	89	66	63	53	53	47	
	120	0.35	18.2	13.7	10.9	9.1	120	0.93	48	36	29	24	120	1.87	97	75	68	58	58	52	
4916-47	60	0.30	16.4	11.6	9.2	7.7	60	0.75	39	29	23	19.5	60	1.85	96	72	58	55	55	48	
	80	0.34	17.7	13.3	10.6	8.9	80	0.86	45	34	27	22	80	2.13	111	83	87	87	85	87	
	90	0.36	18.8	14.1	11.3	9.4	90	0.92	48	36	29	24	90	2.28	118	88	71	59	59	53	
	100	0.38	20	14.9	11.9	9.9	100	0.97	51	38	30	25	100	2.39	125	93	75	62	62	56	
	120	0.42	22	16.4	13.1	10.9	120	1.06	55	41	33	28	120	2.51	136	102	82	68	68	62	
4916-49	60	0.32	16.8	12.4	9.9	8.3	60	0.85	44	33	27	22	60	2.11	110	83	88	88	85	85	
	80	0.37	19.3	14.5	11.6	9.6	80	0.99	52	39	31	26	80	2.44	127	95	76	64	64	62	
	90	0.39	20	15.2	12.2	10.2	90	1.05	55	41	33	27	90	2.59	195	101	81	87	87	85	
	100	0.41	21	16.0	12.8	10.7	100	1.10	57	43	34	29	100	2.73	142	107	85	71	71	62	
	120	0.45	23	17.6	14.1	11.7	120	1.21	83	47	38	32	120	2.99	156	117	93	78	78	72	
4916-52	60	0.36	18.8	14.1	11.3	9.4	60	0.97	50	38	30	25	60	2.36	123	92	74	61	61	58	
	80	0.42	22	16.4	13.1	10.9	80	1.12	58	44	35	29	80	2.72	142	106	85	71	71	64	
	90	0.44	23	17.2	13.8	11.5	90	1.19	62	47	37	31	90	2.89	151	113	90	75	75	71	
	100	0.47	24	18.4	14.7	12.2	100	1.25	65	49	39	33	100	3.04	158	119	95	79	79	75	
	120	0.51	27	20	15.9	13.3	120	1.37	71	54	43	36	120	3.34	174	131	104	87	87	82	
4916-55	60	0.41	21	15.9	12.7	10.6	60	1.06	55	41	33	28	60	2.73	142	107	85	71	71	64	
	80	0.47	24	18.4	14.7	12.2	80	1.22	64	48	38	32	80	3.15	184	123	98	82	82	78	
	90	0.50	25	20	15.6	13.0	90	1.29	67	50	40	34	90	3.34	174	131	104	87	87	82	
	100	0.52	27	20	16.3	13.5	100	1.36	71	53	43	35	100	3.52	183	138	200	150	150	120	
	120	0.57	30	22	17.8	14.9	120	1.49	78	58	47	39	120	3.86	201	151	121	101	101	92	
4916-56	60	0.43	22	16.9	13.5	11.2	60	1.18	61	46	37	31	60	2.97	155	116	93	77	77	72	
	80	0.50	26	20	15.6	13.0	80	1.38	71	53	43	35	80	3.43	174	131	107	89	89	82	
	90	0.53	28	21	16.6	13.8	90	1.44	75	55	45	38	90	3.64	190	142	114	85	85	82	
	100	0.58	29	22	17.5	14.6	100	1.36	71	53	48	40	100	3.52	183	138	200	150	150	120	
	120	0.61	32	24	19.1	15.9	120	1.67	87	65	52	44	120	4.21	219	165	132	110	110	100	
4916-59	60	0.47	24	18.2	14.6	12.2	60	1.23	64	48	39	32	60	3.34	174	131	105	87	87	82	
	80	0.54	28	21	16.9	14.1	80	1.42	74	55	44	37	80	3.86	201	151	121	101	101	92	
	90	0.57	30	22	17.8	14.9	90	1.51	79	57	47	39	90	4.10	214	160	128	107	107	92	
	100	0.60	31	23	18.8	15.6	100	1.59	83	62	50	41	100	4.32	225	169	135	113	113	100	
	120	0.66	34	26	21	17.2	120	1.74	91	68	54	45	120	4.73	248	185	148	123	123	110	
4916-61	60	0.502	26	20	15.7	13.1	60	1.35	70	53	42	35	60	3.70	193	144	116	96	96	92	
	80	0.58	30	23	18.1	15.1	80	1.55	81	81	48	40	80	4.27	222	177	133	111	111	107	
	90	0.61	32	24	19.1	15.9	90	1.65	86	64	52	43	90	4.63	236	177	142	118	118	107	
	100	0.65	34	25	20	16.9	100	1.74	91	68	54	45	100	4.77	249	186	149	124	124	110	
	120	0.71	37	28	22	18.5	120	1.90	99	74	59	50	120	5.23	273	204	164	136	136	120	

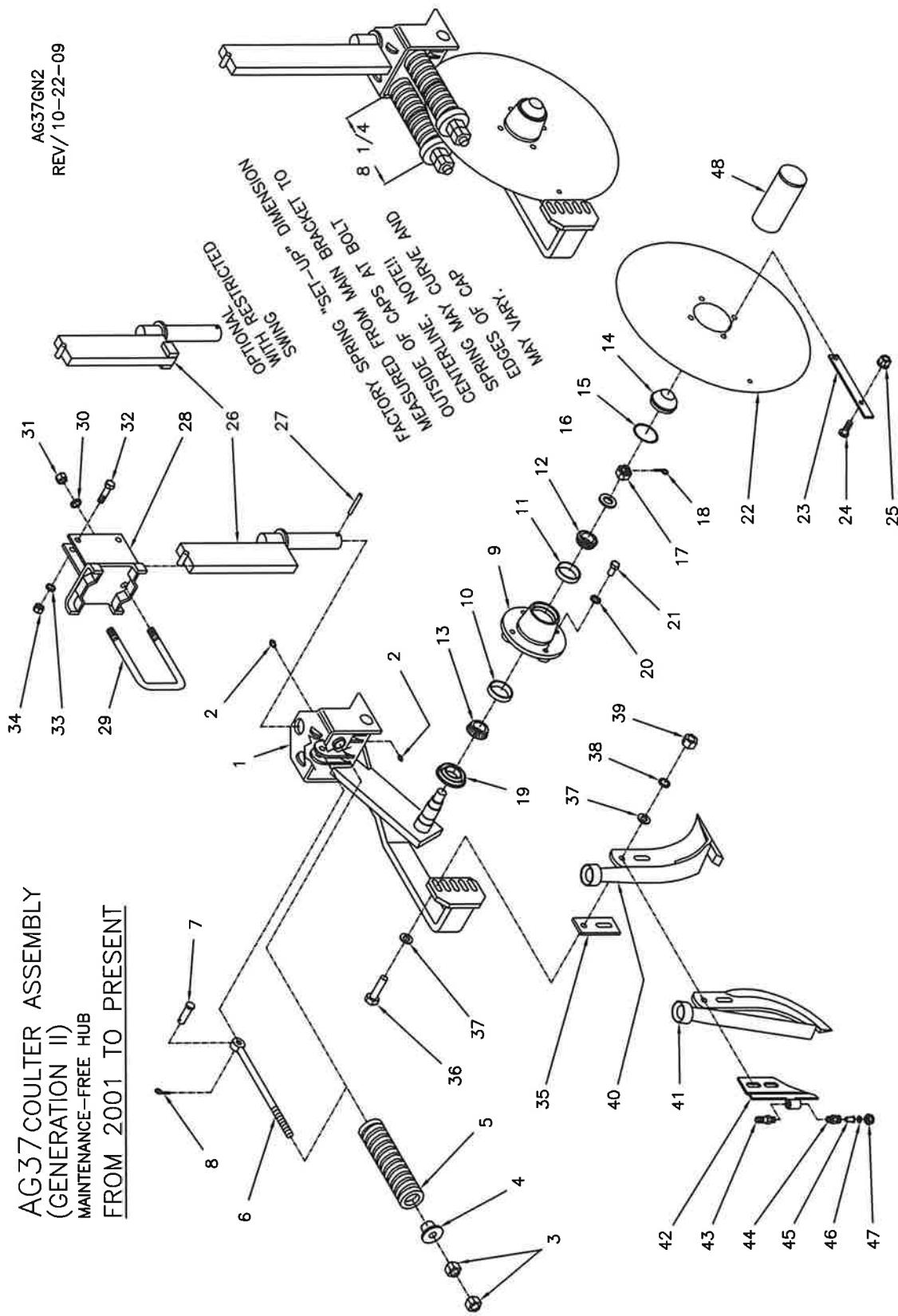
32

****Conversion Factors for Spraying Solutions other than 28% Nitrogen for use only with the Above GPA tables**

Weight of Solution	Conversion Factor	Weight of Solution	Conversion Factor
10.65 lbs./gal.	0.81	11.00 lbs./gal. - 28% N	1.00
8.34 lbs./gal.	0.87	12.0 lbs./gal.	1.01
9.0 lbs./gal.	0.88	14.0 lbs./gal.	1.06
10.0 lbs./gal.	0.92	14.0 lbs./gal.	1.14
	0.97		

32A

**AG 37 COULTER ASSEMBLY
(GENERATION II)
MAINTENANCE-FREE HUB
FROM 2001 TO PRESENT**



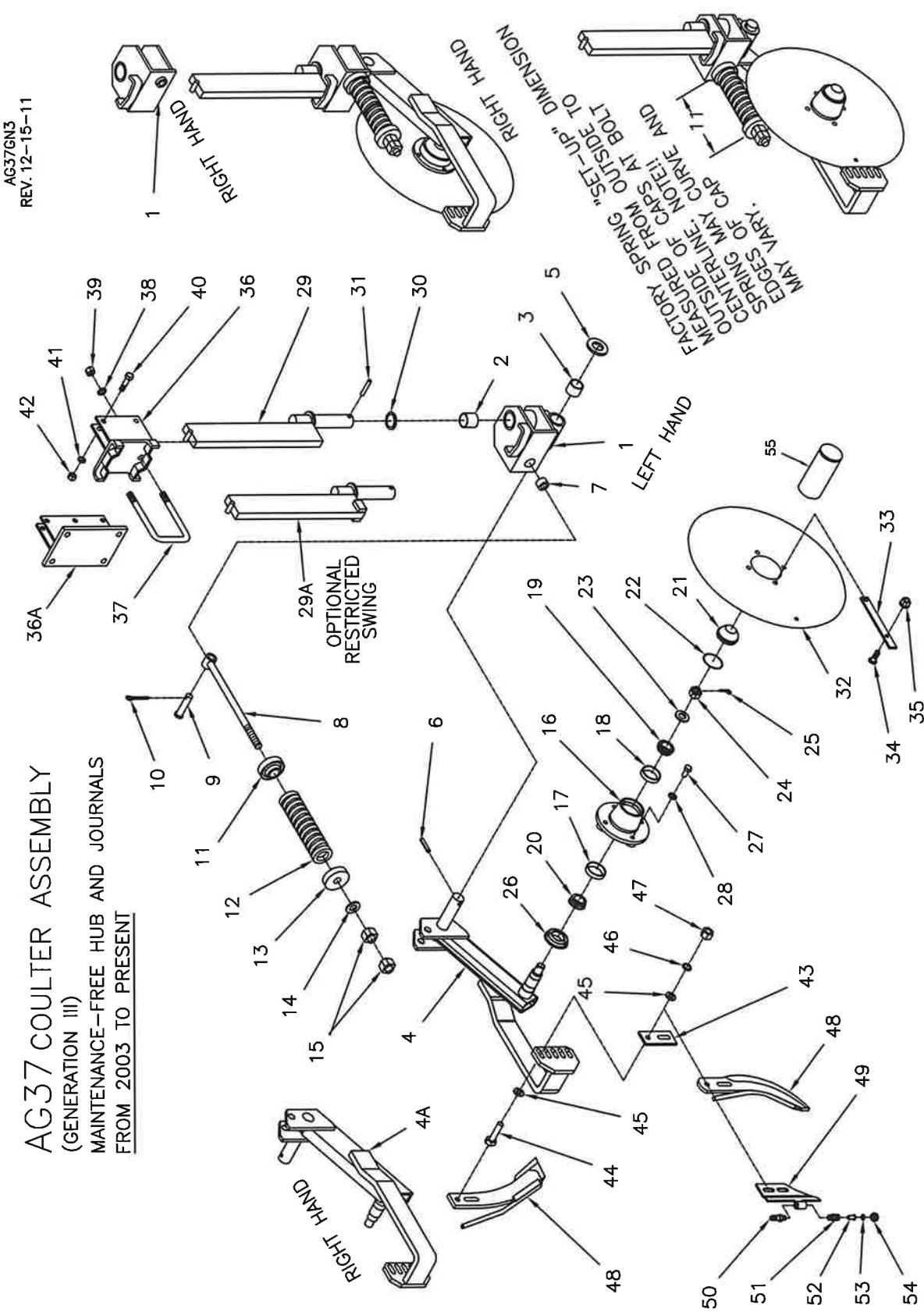
AG37 COULTER ASSEMBLY (GENERATION II)

with MAINTENANCE-FREE HUB
MOUNTING INSTRUCTIONS AND PARTS LIST

AG37GN2LS
REV. 01/28/22

1. Your AG37 main bracket and hub are pre-assembled at the factory and the trip springs are pre-loaded to provide 525 pounds blade pressure. This should be adequate for normal field conditions. The coulter arm should trip up only when hitting a solid obstruction. During your field operation check to make sure the coulter arm is staying rigid most of the time. Excessive flexing will cause premature spring failure. If repeated tripping is occurring, tighten the spring tension till rigid normal operation is achieved.
 2. Assemble the blade (item 22) to the hub, and (if used) the scraper (item 23) to the blade with the hardware (item 24 and item 25).
 3. Assemble the swivel bar (item 26) to the main bracket (item 1). Be sure the 1 x 3 bar is positioned between the half moon stops on top of the main bracket. Install the roll pin (item 27).
 4. Position the mounting brackets (item 28) at the desired spacing and fasten with the U-bolts (item 29) and hardware (items 30 and 31).
 5. Install the coulter assemblies to the mounting brackets (item 28) and fasten with the bolts (item 32) and hardware (items 33 and 34). Assemble the hardware snug only.
 6. Adjust the coulter blade to the desired depth and tighten the hardware securely.
 7. Assemble the knife (item 40 or 41) to the coulter assembly with the shims (item 35), bolts (item 36) and hardware (items 37, 38 and 39). Select and install the shims in a manner so that as you rotate the blade a complete revolution you observe that the point of the knife and the lower area of the knife is behind the blade at all times. The knife should also be set at zero clearance (see step 7). This will maintain the blade's trash cutting ability. The top of the knife should be away from the blade far enough so that the scraper can pass the top, thick part of the knife without rubbing the knife. NOTE: The bolt head should be located next to the bracket (see illustration) and any shims not needed should be placed between the backside of the bracket and the flatwasher next to the head of the bolt.
 8. Adjust the knife position relative to the blade edge. The backswept knife (item 41) should be positioned to obtain maximum backsweep. Locate the upper bolt to the front of the slot and the lower bolt to the back of the slot. The forward swept knife (item 40) should be positioned as close to the blade edge as possible. Rotate the coulter blade to determine the point of maximum eccentric runout of the circumference and adjust the knife to zero clearance at this point. NOTE: The knife will have to be re-adjusted regularly.
 9. Make sure all hardware is tightened securely.
 10. During field operation grease the swivel bar journals weekly. And grease for end-of-season storage. Inspect the coulter blade and knife clearance daily. Adjust per step 8 if required. The coulter hub is greased-for-life and should need no regular maintenance. Check for damage to the dust cap and grease seal daily.
- | PART NO. | ITEM | QTY | DESCRIPTION | PART NO. | ITEM | QTY | DESCRIPTION | PART NO. |
|----------|--|-----|--|--|--|---|---------------------------------------|----------|
| 47309905 | MAIN BRKT. & BLADE ASSEMBLY, L.H. | 1 | SCRAPER | 47309921 | BOLT, 3/8"-16NC, X 1, TRUSS HEAD | 1 | LOCKWASHER, 5/8" HEX. NUT, 5/8"-11NC. | 18891600 |
| 47307705 | MAIN BRKT. & BLADE ASSEMBLY, R.H. OPT. | 1 | HEX. NUT, 3/8"-16NC. | 18033810 | FLANGED | 1 | BOLT, 1/2"-13NC, X 2 | 18477434 |
| 47109570 | MAIN BRKT W/HUB ASSEMBLY, L.H. | 1 | COUTLER SWIVEL BAR, 18" (INCL ITEM 27) | 18968600 | COUTLER SWIVEL BAR, 12" (INCL ITEM 27) | 1 | BOLT, 1/2"-13NC, X 2 | 18891400 |
| 47109368 | MAIN BRKT W/HUB ASSEMBLY, R.H. OPT. | 1 | COUTLER BAR W/RESTRICTED SWING | 47309811 | COUTLER BAR W/RESTRICTED SWING | 1 | LOCKWASHER, 1/2" HEX. NUT, 1/2"-13NC. | 18477400 |
| 1 | INCLUDES ITEMS 1 TO 21 (W/O BLADE) | 1 | 10 DEG. AND 15 DEG. AVAILABLE | | | 34 | SHIM, 1/4" | 47306661 |
| 1 | MAIN BRACKET, L.H. (W/O HUB OR BLADE) | 1 | 47005147 | 18" BAR 10' RESTR. SWING (BOTH WAYS) | 1 | SHIM, 1/8" | 47306662 | |
| 2 | MAIN BRACKET, R.H. (W/O HUB OR BLADE) OPT. | 1 | 47005147L | 18" BAR 10' RESTR. SWING (LH ONLY) | 1 | SHIM, 1/16" | 47306663 | |
| 2 | 18901805 GREASE ZERK, STRAIGHT | 1 | 47005147R | 18" BAR 10' RESTR. SWING (RH ONLY) | 1 | BOLT, 1/2"-13NC, X 2 | 18057432 | |
| 3 | 18407900 HEX. NUT, 5/8-11INC. | 4 | 47005149 | 18" BAR 15' RESTR. SWING (BOTH WAYS) | 1 | FLATWASHER, 1/2" | 18891400 | |
| 4 | 47301550 SPRING CAP | 2 | 47005149L | 18" BAR 15' RESTR. SWING (LH ONLY) | 1 | LOCKWASHER, 1/2" | 18891400 | |
| 5 | 47301524 COMPRESSION SPRING | 2 | 47005149R | 18" BAR 15' RESTR. SWING (RH ONLY) | 1 | HEX. NUT, 1/2"-13NC | 47307450 | |
| 6 | 47301847 EYE BOLT, SPRING RETAINER | 2 | 47005149 | 18" BAR 15' RESTR. SWING (BOTH WAYS) | 1 | DRY KNIFE, W/BUSHING, (FORWARD) | 47309734 | |
| 7 | 18541428 CLEVIS PIN, 1/2" X 1 3/4 | 2 | 47005149 | 18" BAR 15' RESTR. SWING (LH ONLY) | 1 | DRY KNIFE, W/O BUSHING, (FORWARD) | 47309742 | |
| 8 | 18560722 COTTER PIN, 5/32" X 1 | 2 | 47005149 | 18" BAR 15' RESTR. SWING (RH ONLY) | 1 | LIQUID KNIFE, (FORWARD) | 47309748 | |
| 8 | 47300350 HUB COMPLETE (W/O SEAL & BOLTS) | 2 | 47005149 | 18" BAR 15' RESTR. SWING (BOTH WAYS) | 1 | S.S. TUBE ADAPTER | 47007468 | |
| | INCLUDES ITEMS 9 TO 15 | 28 | 47309893 | ROLL PIN, 1/4" X 2 1/4" MOUNTING BRACKET, (4" VERTICAL) STD. | 1 | LIQUID KNIFE, W/BUSHING, (BACKSWEEP) | 47309750 | |
| 9 | 47300351 HUB WITH CUPS, ITEMS 10 & 11 | 1 | 47005951 | U-BOLT, 5/8"-11NC, (4" V X 6" BAR) | 1 | DRY KNIFE, W/O BUSHING, (BACKSWEEP) | 47309759 | |
| 10 | 47005510 BEARING CUP, INNER | 1 | 44001616 | U-BOLT, 5/8"-11NC, (4" V X 4" BAR) | 1 | OPT. | 47309750 | |
| 11 | 47005010 BEARING CUP, OUTER | 1 | OTHER MOUNTING BRACKET OPTIONS | | | OPT. | 47309838 | |
| 12 | 47005048 BEARING CONE, OUTER | 1 | 47309887 | MOUNTING BRKT, (2 1/2" VERTICAL) | 43 | NOZZLE BRACKET | 47309838 | |
| 13 | 47005548 BEARING CONE, INNER | 1 | 47006659 | MOUNTING BRACKET, (2 1/2" V X 2 1/2" H BAR) | 44 | ADAPTER | 100859 | |
| 14 | 47005513 DUST CAP | 1 | 47309332 | MOUNTING BRACKET, (3" VERTICAL) | 45 | STREAM STABILIZER | 504015 | |
| 15 | 47980351 O-RING DUST SEAL | 1 | 47309807 | U-BOLT, 5/8"-11NC, (3" VERT., EXT.) | 1 | SELECT FROM ORIFICE CHART | 504015 | |
| 16 | 47300352 SPINDLE WASHER | 1 | 47309867 | U-BOLT, 5/8"-11NC, (3" VERT., EXT.) | 1 | CAP | 503127 | |
| 17 | 47300353 SLOTTED NUT, 7/8"-14UNF | 1 | 47309888 | MOUNTING BRKT, (6" VERT.) | 1 | 503127 | | |
| 18 | 18860726 COTTER PIN, 5/32" X 1 1/2 | 1 | 47010154 | MOUNTING BRKT, (6" V X 4" H BAR) | 1 | DUST CAP INSTALLATION TOOL (OPTIONAL) | 48 | |
| 19 | 40050326 GREASE SEAL | 1 | 47009847 | MOUNTING BRKT, (6" V X 4" H BAR) | 1 | DUST CAP | 47005500 | |
| 20 | 18891400 LOCK WASHER, 1/2" I.D. | 4 | 47309336 | MOUNTING BRKT, (7" VERTICAL) | 1 | REF # 47302730 SPINDLE ONLY | | |
| 21 | 18057522 WHEEL BOLT, 1/2"-20NF X 1 | 1 | 47302730 | U-BOLT, 1/2"-13NC, (7" V X 7" H BAR) | 1 | NOTE for 7" U-BOLT USE 1/2"-13NC. HEX. NUTS | | |
| 22 | 47305027 COULTER BLADE, 20" RIPPLED | 1 | | | | | REF # 47303000 | |

AG37 COULTER ASSEMBLY
 (GENERATION III)
 MAINTENANCE-FREE HUB AND JOURNALS
FROM 2003 TO PRESENT



AG37 COULTER ASSEMBLY (GENERATION III)

AG37N3LS
REV. 01/28/22

MOUNTING INSTRUCTIONS AND PARTS LIST

- Your AG37 Gen III main bracket and hub are pre-assembled at the factory and the trip spring is preloaded to provide 600 pounds blade pressure. This should be adequate for normal field conditions. The coulter arm should trip up only when hitting a solid obstruction. During your field operation check to make sure the coulter arm is staying rigid most of the time. Excessive flexing will cause premature spring failure. If repeated tripping is occurring, tighten the spring tension till rigid normal operation is achieved.
- Assemble the blade (item 32) to the hub, and (if used) the scraper (item 33) to the blade with the hardware (items 34 & 35).
- Assemble the swivel bar (item 29) to the bracket assembly. Be sure the swivel bar is positioned between the swivel control lugs on top of the main bracket. Install the washer (item 30) and pin (item 31).
- Position the mounting bracket (item 36) at the desired spacing and fasten with the U-bolt (item 37) and hardware (items 38 and 39).
- Install the coulter assemblies in the mounting brackets (item 36) and fasten with the bolts (item 40) and hardware (items 41 and 42). Assemble the hardware snug only.
- Adjust the coulter blade to the desired depth and tighten the hardware securely.
- Assemble the knife (item 48) to the coulter assembly with the shims (item 43), bolts (item 44) and hardware (items 45, 46 and 47). Select and install the shims in a manner so that as you rotate the blade a complete revolution you see that the point of the knife and the lower area of the knife is behind the blade at all times. The backset knife should be positioned to obtain maximum backswep. Locate the upper bolt to the front of the slot and the lower bolt to the back of the slot. Note, the bolt head should be located next to the head of the bolt (see illustration) and any shims not needed should be placed between the back side of the bracket and the flat washer.
- The front swept knife should be positioned as close to the blade edge as possible. Zero clearance. This will maintain the blade's trash cutting ability. Rotate the coulter blade to determine the point of maximum eccentric runout of the circumference and adjust the knife to zero clearance at this point. The top of the knife should be away from the blade far enough so that the scraper can pass the top, thick part, of the knife without rubbing the knife. NOTE: The knife position should be inspected frequently and re-adjusted regularly.
- Make sure all hardware is tightened securely.
- No field operation lubricating is required. The hubs are sealed and greased for life. The swivel journals are assembled with grease-less bushings. For repair procedure, see separate sheet titled PROCEDURE TO SERVICE A COULTER HUB.

REF 47300300 SPINDLE ONLY

10 For repair procedure, see separate sheet titled PROCEDURE TO SERVICE A COULTER HUB.

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION
40350000	MAIN BRKT. & BLADE, L.H. (STANDARD)	1	20	47005548	BEARING CONE, INNER	1	37	47001054	U-BOLT, 5/8"-11NC. (6V X 4"-H BAR)	
40351000	MAIN BRKT. & BLADE, R.H. (OPT.)	1	21	47005513	DUST CAP	1	37	47009847	U-BOLT, 5/8"-11NC. (6V X 6"-H BAR)	
47304500	INCLUDES ITEMS 1 TO 32	1	22	47990351	O-RING DUST SEAL	1	36A	47309736	MOUNTING BRACKET, (7" VERTICAL)	
47314500	MAIN BRKT. W/HUB, L.H. (STANDARD)	1	23	47300352	SPINDLE WASHER	1	37	47302730	U-BOLT, 1/2"-13NC. (7V X 7"H BAR)	
1	INCLUDES ITEMS 1 TO 31 (W/O BLADE)	1	24	47300353	SPINED NUT, 7/8"-14UNF	1	38	18891400	LOCKWASHER, 1/2"	
1	47004500	HOUSING W/BUSHINGS, L.H. (STD)	1	25	47560726	COTTER PIN, 5/32" X 1 1/2	1	39	18471400	HEX. NUT, 1/2"-13NC
1	47014500	HOUSING W/BUSHINGS, R.H. (OPT.)	1	26	40030326	GEARSE SEAL	1	38	18891600	LOCKWASHER, 5/8"
2	47009954	SWIVEL BUSHING, 1 1/2 I.D.	2	27	18057522	WHEEL BOLT	1	39	18891400	HEX. NUT, 5/8"-11NC
3	47009953	PIVOT BUSHING, 1 3/8 I.D.	2	28	18891400	LOCK WASHER, 1/2 I.D.	4	40	18057434	BOLT, 1/2"-13NC. X 2 1/2
4	47004507	PIVOT ARM, L.H. FRONT SWEEP KNIFE	1	29	47304522	COULTER SWIVEL BAR, 18" STANDARD	1	41	18891400	LOCKWASHER, 1/2"
4A	47014507	PIVOT ARM, R.H. FRONT SWEEP KNIFE	1	29A	47005144	OPTIONAL COULTER BAR W/RESTRICTED SWING	1	42	18471400	HEX. NUT, 1/2"-13NC
5	1B300326	RETAINING WASHER, 1 3/8 I.D.	1	29A	47005144R	10 DEG. AND 15 DEG. AVAILABLE	1	43	47306661	ITEMS 40, 41 & 42 (3) REQ'D. W 6 X 6 OR 7 X 7 TUBE
6	1B511035	EXPANSION PIN, 3/8 X 2	1	29A	47005144L	10" BAR 10" RESTR. SWING (BOTH WAYS)	1	44	47305663	SHIM, 1/4"
7	2-6668	EYE BOLT GLIDE	1	29A	47005144R	10" BAR 10" RESTR. SWING (BOTH WAYS)	1	45	47305663	SHIM, 1/16"
8	47004518	EYE BOLT, SPRING RETAINER	1	29A	47005144L	10" BAR 10" RESTR. SWING (BOTH WAYS)	1	46	18891400	FLATWASHER, 1/2"
9	1B541B35	CLEVIS PIN, 3/4" X 2 1/2	1	29A	47005145	10" BAR 15" RESTR. SWING (BOTH WAYS)	1	47	18471400	LOCKWASHER, 1/2"
10	1B560726	COTTER PIN, 5/32" X 1 1/2	1	29A	47005145R	10" BAR 15" RESTR. SWING (BOTH WAYS)	1	48	18891400	NOZZLE BRACKET (L.H.) (STANDARD)
11	47004521	SPRING CAP, WITH COUNTER-BORE	1	30	1B300323	RETAINING WASHER, 1 1/2 I.D.	1	49	47309756	LIQUID KNIFE, (FRONTSWEEP) S.S. TUBE OPT.
12	47007565	COMPRESSION SPRING	1	31	1B511036	EXPANSION PIN, 3/8" X 2 1/4	1	49A	47309748	NOZZLE BRACKET (R.H.) (STANDARD)
13	47007085	SPRING CAP, STANDARD CASTING	1	32	47305027	COULTER BLADE, 20" RIPPLED	1	50	100859	HOSEBARB., S.S. / 4 NPT. X 1/2 TUBE
14	1B851B00	FLAT WASHER, 3/4" HEX. NUT, 3/4"-10NC	1	33	47306921	SCRAPER BLADE, 20" RIPPLED	1	51	500192	ADAPTER
15	1B446B90	HUB COMPLETE (W/O SEAL & BOLTS)	2	34	18033810	BOLT, 3/8"-16NC. X 1, TRUSS HEAD	1	52	504015	STREAM STABILIZER
16	47300350	INCLUDES ITEMS 16 TO 22	1	35	18496800	HEX. NUT, 3/8"-16NC. FLANGED	1	53	503127	SELECT FROM ORIFICE CHART
17	47003515	HUB WITH CUPS ITEMS 17 & 18	1	36	47308983	MOUNTING BRACKET, (4" VERTICAL) STD.	1	54	503127	CAP
18	47005510	BEARING CUP, INNER	1	37	47006951	U-BOLT, 5/8"-11NC. (4V X 6" BAR)	1	55	47309888	DUST CAP INSTALLATION TOOL (OPTIONAL)
19	47005048	BEARING CUP, OUTER	1	36	44001616	U-BOLT, 5/8"-11NC. (4V X 6" BAR)	1			
20		BEARING CONE, OUTER	1	36	47309888	MOUNTING BRACKET, (6" VERTICAL)	1			

30

SRVCLTHBMF

PROCEDURE TO SERVICE A COULTER HUB "MAINTENANCE-FREE" HUB

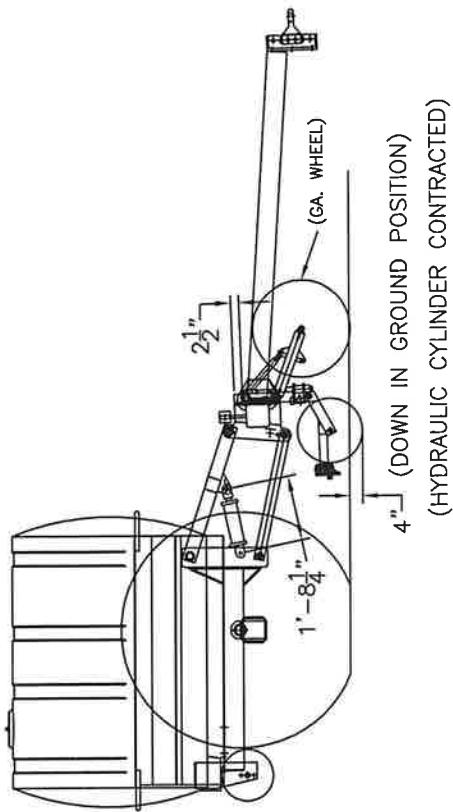
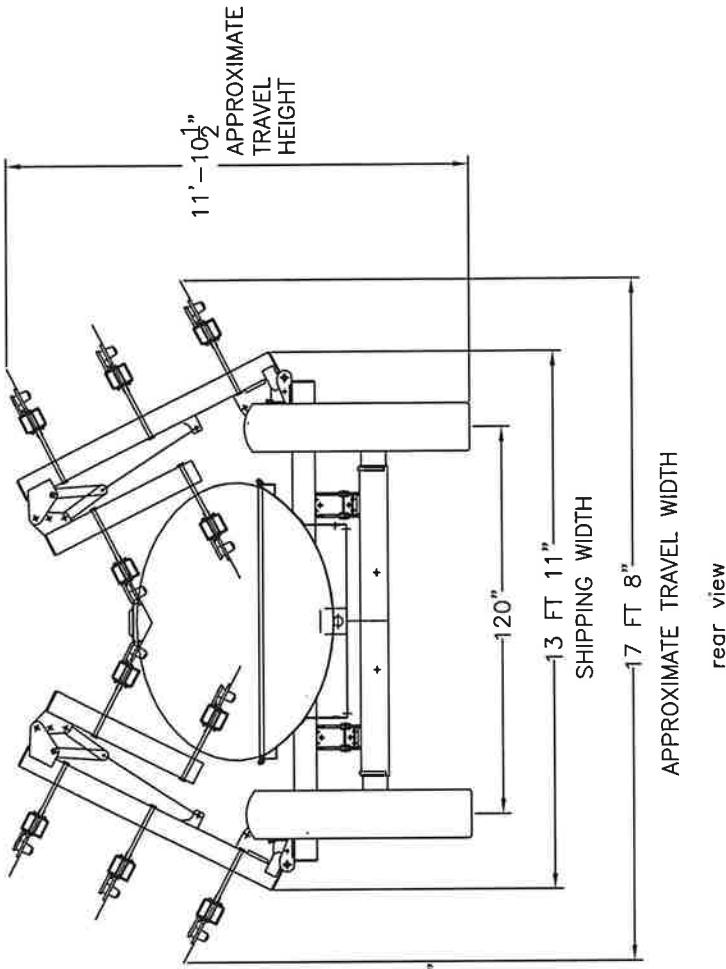
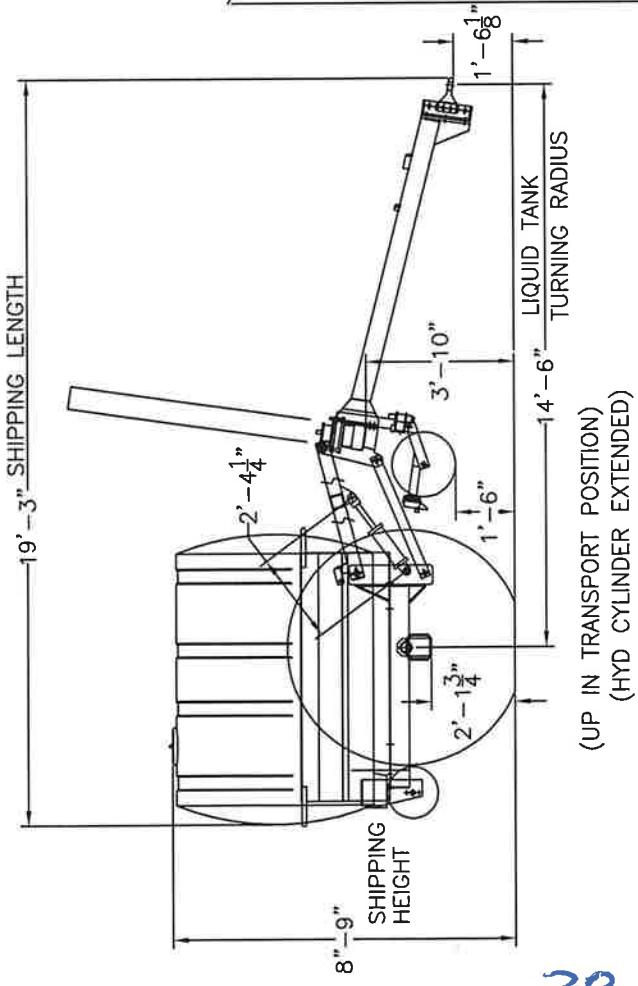
The factory procedure to assemble the coulter hub has been developed to obtain maximum life and to eliminate damage to the components. IT IS IMPORTANT to understand and follow this procedure when servicing the coulter hub. If possible, obtain an illustration of the coulter before proceeding.

ASSEMBLE THE COULTER HUB AS FOLLOWS.

- 1: Pre-pack the inner bearing cone with grease and insert it into the back of the hub.
- 2: Add grease to cover the back of the bearing and cup. CAUTION – CAUTION : Do not "fill" the back of the hub with grease. Do not get any grease on the sealing seat for the grease seal. The seal is treated with a sealing agent and grease or oil on the sealing surface will destroy the effectiveness of the seal. If there is any grease on the sealing surface in the hub wipe it with a degreasing agent.
- 3: Carefully insert the grease seal. Do not get any grease on the outer sealing surface of the seal. Tap or press the seal in place. Make sure the seal is entering and seating squarely.
- 4: Turn the hub over and fill the center cavity with grease. Pre-pack the outer bearing with grease and insert it into the hub.
- 5: Position the hub on the spindle and install the spindle washer and the slotted nut.
- 6: Rotate the hub by hand while tightening the slotted nut until the hub locks-up. This will align and seat the bearing rollers. Back off the nut until you can freely rotate the hub by hand and install the cotter pin. Bend the ends of the cotter pin "down" only. Not one half up and one half down.
- 7: Completely fill the front cavity of the hub with grease.
- 8: Inspect the hub to make sure it is properly assembled and then install the dust cap.
CAUTION: Once the dust cap is installed it cannot be removed without destroying it. Take care to be sure the dust cap is square to the bore when starting and seating it. An old dust cap or a piece of tubing with the right I. D. and O. D. may be helpful.
- 9: You may now assemble the coulter blade. During field operation check the coulter blade periodically for wobble. This could be a result of hitting rocks and/or normal wear. Re-adjust the bearing tension (see step 6). Wobble in the hub could damage the seal and cause bearing failure. Note that you will need to install a new dust cap after a bearing adjustment. REVIEW step 8.

6400 SERIES TOOLBAR AND CADDY
 SPECIFICATIONS 2007 AND NEWER
 (AS REVISED FOR 2007)
 (SHORTER TURNING RADIUS THAN 2006 VERSION)

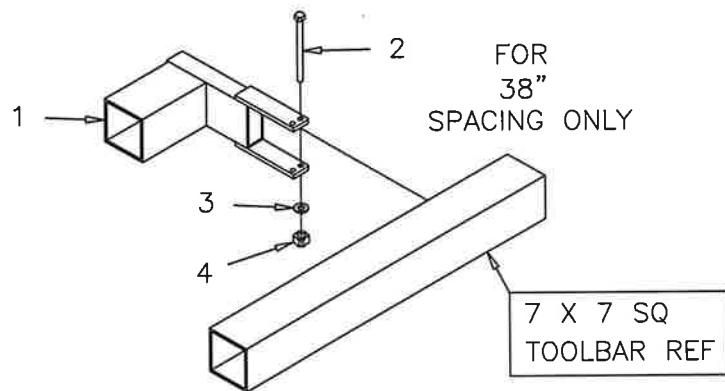
64KSPECQ07
 REV 02-24-11



MISC STAGGER BRACKETS

64KSTAGBRKT
05-30-12

FOR 6400 TOOLBARS ONLY



SEE THE APPROPRIATE TOOLBAR LAYOUT FOR THE ROW SPACING
DESIRED TO DETERMINE PROPER LOCATION OF BRACKETS

<u>ITEM</u>	<u>PART NO.</u>	<u>DESCRIPTION</u> (30" SPACING)	<u>QTY</u>
1	47015001	STD STAGGER BRACKET	2
2	18058479	BOLT, HEX 3/4-10 NC X 9.50 LG GR5 ZC	4
3	18891800	LOCKWASHER, 3/4 ZC	4
4	18418400	NUT, HEX 3/4-10 NC ZC	4

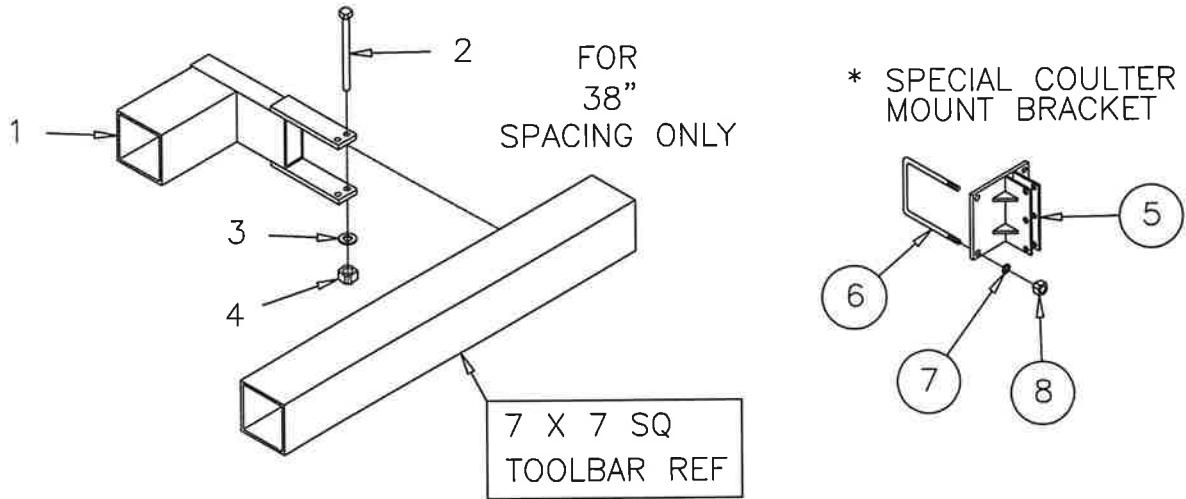
<u>ITEM</u>	<u>PART NO.</u>	<u>DESCRIPTION</u> (12 ROW 38" SP)	<u>QTY</u>
1	47015001	STD STAGGER BRACKET	2
2	18058479	BOLT, HEX 3/4-10 NC X 9.50 LG GR5 ZC	4
3	18891800	LOCKWASHER, 3/4 ZC	4
4	18418400	NUT, HEX 3/4-10 NC ZC	4
2	47305140	SPECIAL COULTER MOUNT BRKT	2

<u>ITEM</u>	<u>PART NO.</u>	<u>DESCRIPTION</u> (17 ROW 22" SP)	<u>QTY</u>
1	47015001	STD STAGGER BRACKET	6
2	18058479	BOLT, HEX 3/4-10 NC X 9.50 LG GR5 ZC	12
3	18891800	LOCKWASHER, 3/4 ZC	12
4	18418400	NUT, HEX 3/4-10 NC ZC	12

<u>ITEM</u>	<u>PART NO.</u>	<u>DESCRIPTION</u> (22 ROW 20" SP)	<u>QTY</u>
1	47015001	STD STAGGER BRACKET	10
2	18058479	BOLT, HEX 3/4-10 NC X 9.50 LG GR5 ZC	20
3	18891800	LOCKWASHER, 3/4 ZC	20
4	18418400	NUT, HEX 3/4-10 NC ZC	20

MISC STAGGER BRACKETS
FOR 6300 & 6400 TOOLBARS ONLY

63KSTAGBRKT
REV 06-08-12



SEE THE APPROPRIATE TOOLBAR LAYOUT FOR THE ROW SPACING
DESIRED TO DETERMINE PROPER LOCATION OF BRACKETS

<u>ITEM</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>(12 ROW 30" SP)</u>	<u>QTY</u>
-------------	-----------------	--------------------	------------------------	------------

1	47015001	STD STAGGER BRACKET	2
2	18058479	BOLT, HEX 3/4-10 NC X 9.50 LG GR5 ZC	4
3	18891800	LOCKWASHER, 3/4 ZC	4
4	18418400	NUT, HEX 3/4-10 NC ZC	4

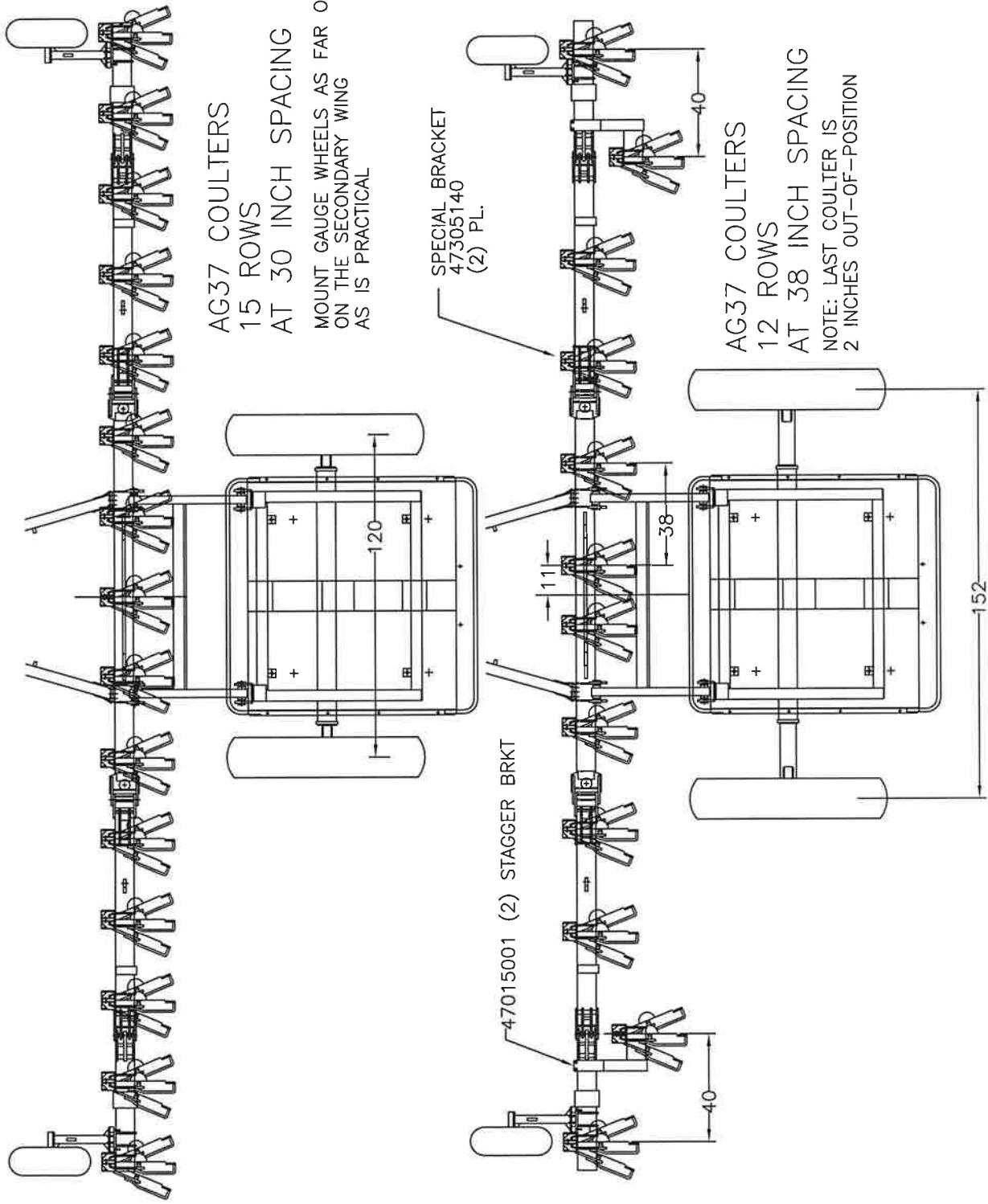
<u>ITEM</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>(12 ROW 38" SP)</u>	<u>QTY</u>
-------------	-----------------	--------------------	------------------------	------------

1	47015001	STD STAGGER BRACKET	2
2	18058479	BOLT, HEX 3/4-10 NC X 9.50 LG GR5 ZC	4
3	18891800	LOCKWASHER, 3/4 ZC	4
4	18418400	NUT, HEX 3/4-10 NC ZC	4
5*	47305140	SPECIAL COULTER MOUNT BRACKET	2
6	47302730	U-BOLT, 1/2-13	4
7	18891400	LOCKWASHER, 1/2 ZC	8
8	18417400	NUT, HEX 1/2-13 ZC	8

* SEE SHANK LAYOUTS FOR AN EXAMPLE HOW 47305140
(SPECIAL COULTER MOUNT BRACKET) IS USED NEAR HINGE
IN THE SHANK LAYOUT SECTION OF THIS MANUAL.

6400 SERIES TOOLBAR
WITH COULTERS FOR
LIQUID APPLICATION

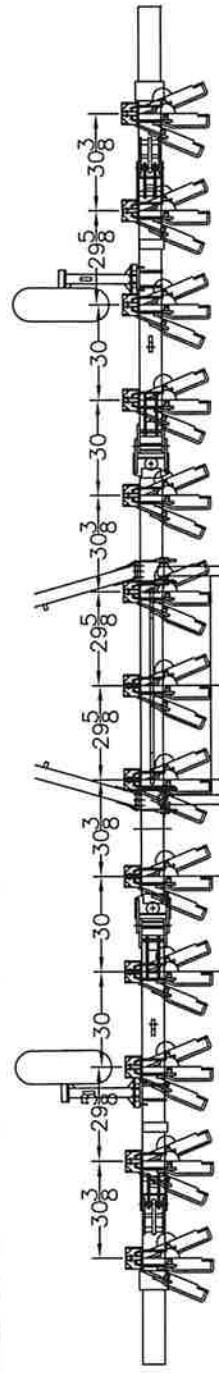
64KSHNK LQ
REV/04-28-10



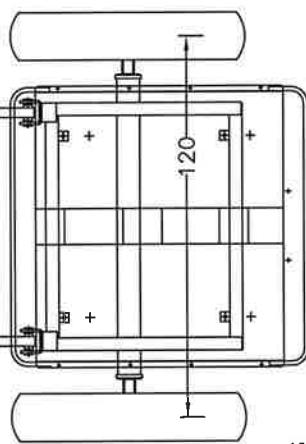
6400 SERIES TOOLBAR

WITH COULTERS FOR
LIQUID APPLICATION
* DIM MAY VARY SLIGHTLY DUE TO WELD CLEARANCES
THIS WAS DETERMINED DURING IN HOUSE ASSY 06-06-07

64K13ROWARR
REV/06-08-07

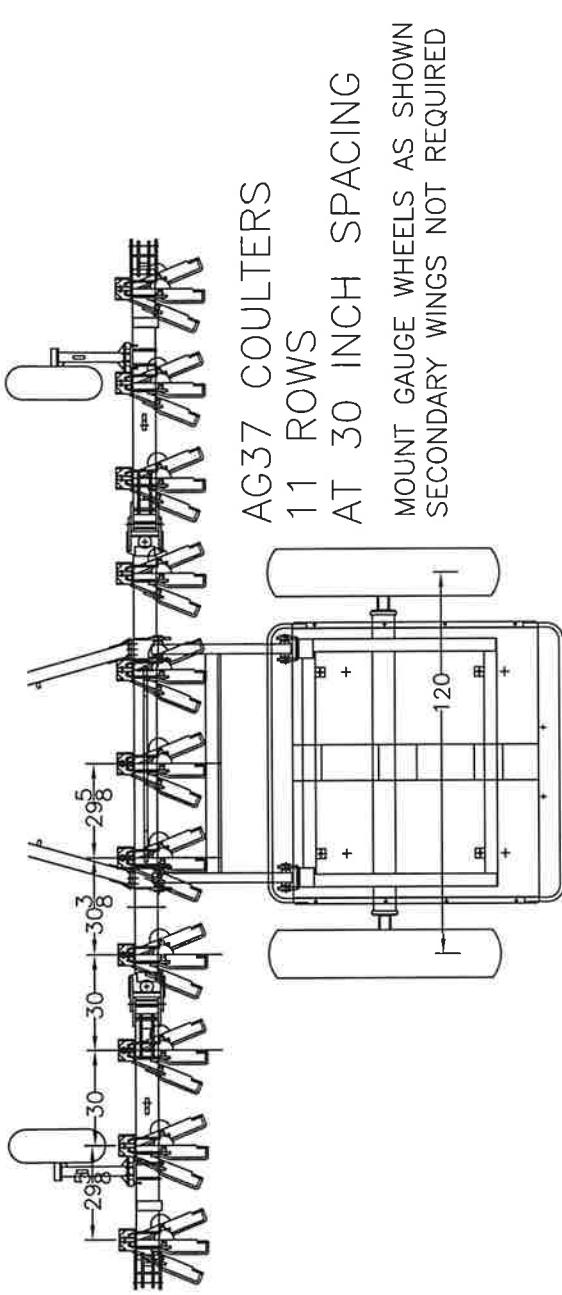


AG37 COULTERS
13 ROWS
AT 30 INCH SPACING
MOUNT GAUGE WHEELS AS SHOWN



* DIM MAY VARY SLIGHTLY DUE TO WELD CLEARANCES

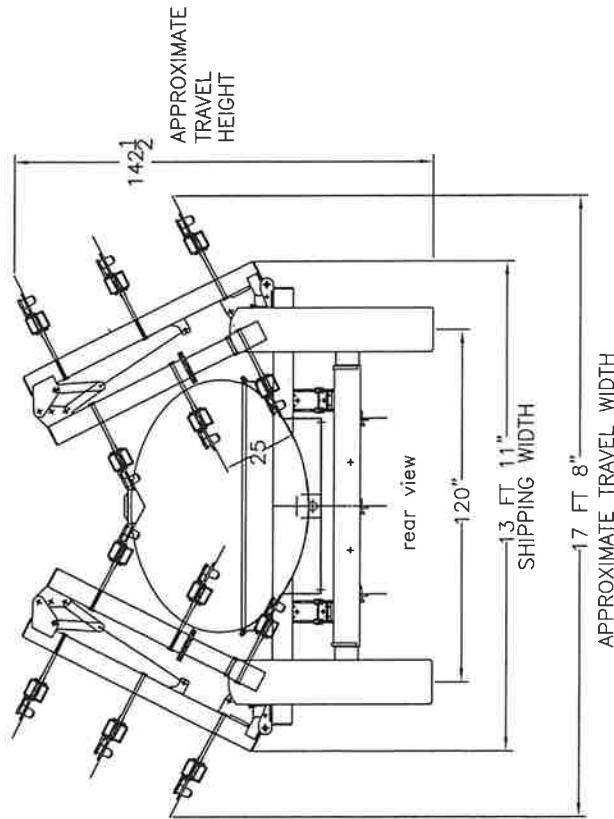
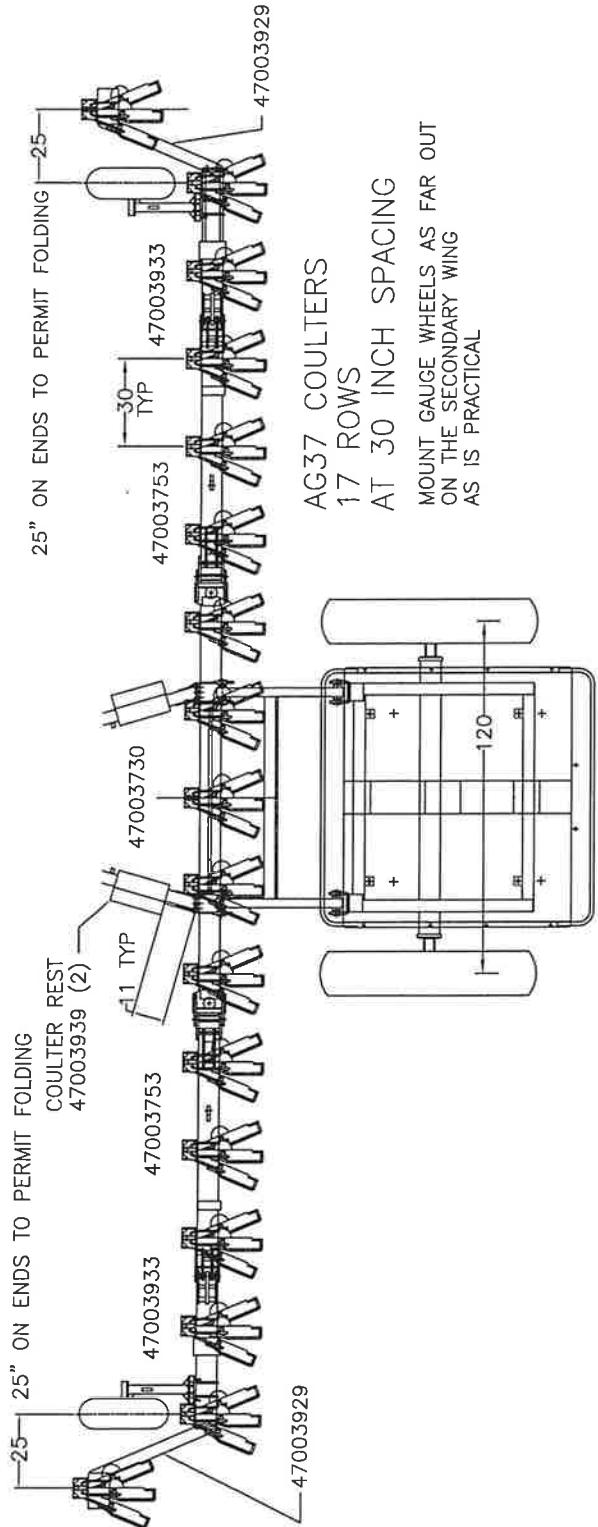
THIS WAS DETERMINED DURING IN HOUSE ASSY 06-06-07



AG37 COULTERS
11 ROWS
AT 30 INCH SPACING
MOUNT GAUGE WHEELS AS SHOWN
SECONDARY WINGS NOT REQUIRED

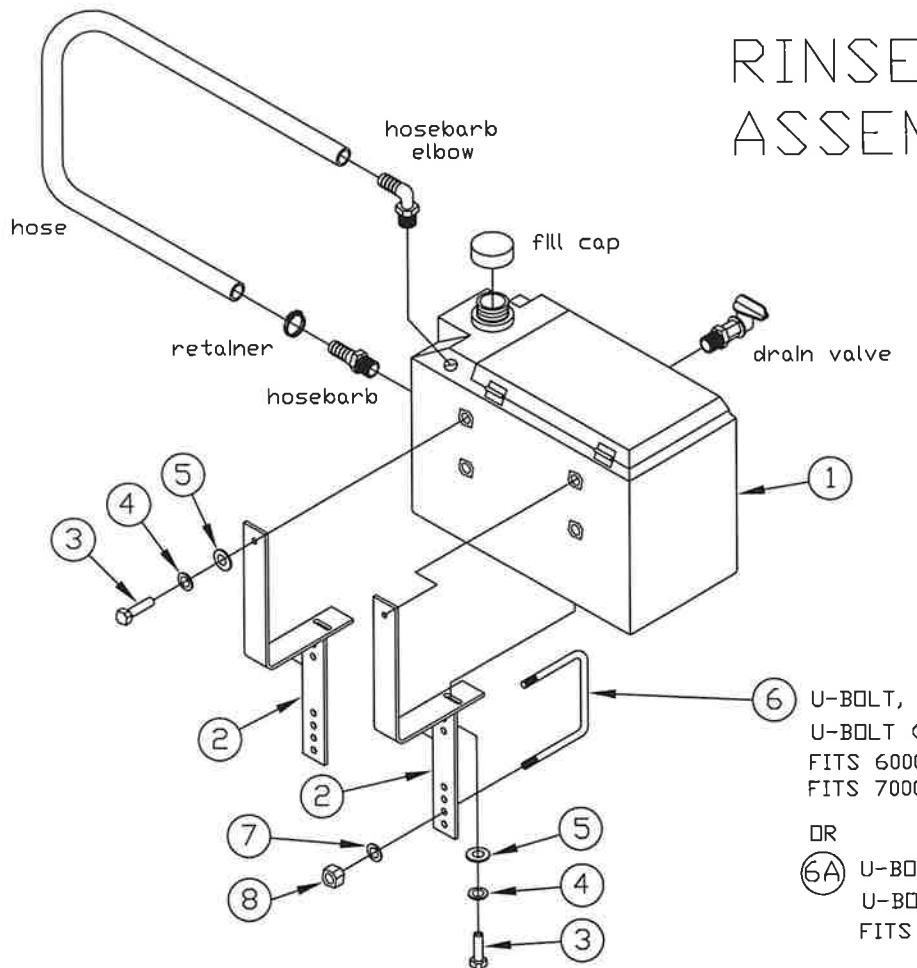
6400 SERIES TOOLBAR
WITH COULTERS FOR
LIQUID APPLICATION

64K17X30
PRO 04-05-13
REV 06-18-13



43

RINSE TANK ASSEMBLY



(1) U-BOLT, FITS 4 X 6 TUBE
 U-BOLT (4 X 6 TUBE)
 FITS 6000, 6300, 6400, 6500, 6600
 FITS 7000, 7200, 7300, 8000, 8500

OR
 (6A) U-BOLT, FITS 3 X 5 TUBE
 U-BOLT (3 X 5 TUBE)
 FITS 6200 ONLY

ITEM	QTY	PARTNUMBER	DESCRIPTION
		601547	COMPLETE RINSE TANK KIT KIT INCLUDES ALL ITEMS 1 THRU 8
		47005781	RINSE TANK MOUNTING KIT INCLUDES ITEMS 2 THRU 8 ONLY
1	1	CRM6000-30	RINSE TANK ASSEMBLY INCLUDES HOSE, VALVE, CAP, AND FITTINGS
2	2	47005780	RINSE TANK BRACKET
3	4	18026422	BOLT, HEX 5/16 X 1/2SS
4	4	18991100	LOCKWASHER, 5/16 SS
5	4	18991100	FLATWASHER, 5/16 SS
6	2	47006545	U-BOLT (4 X 6 TUBE)
6A	2		U-BOLT (4 X 5 TUBE)
7	4	18891400	LOCKWASHER, 1/2 ZP
8	4	18417400	NUT, HEX, 1/2-13 ZP

MOUNTING INSTRUCTIONS

MOUNT TO THE LH HITCH POLE
WITH BRACKETS ON THE INSIDE
OF THE HITCH POLE. DRAIN
VALVE ON TANK TO THE
OUTSIDE. MOUNT FOR MAXIMUM
DRAINAGE THRU SPIGOT USING
ADJUSTMENT HOLES.



WARRANTY CLAIM FORM

Heartland
Ag systems

Heartland Agriculture, LLC

WARRANTY CLAIM FORM

**Warranty of
November 4, 2020**
Heartland Agriculture LLC, dba Heartland AG Systems

Days of repair | Remit to address: 1180 Hwy 7 W Hutchinson MN 55350