

**Heartland
AG SYSTEMS**
EQUIPMENT

**MT16
SERIES
TENDERS**

**OPERATOR'S MANUAL
AND PARTS LIST
OM-MT16**

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

ISSUE
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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

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11/9/20

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TO THE OWNER

Congratulations on your selection of the Heartland AG Systems Tender.

The Heartland AG Systems Tender has been designed to provide years of profitable and dependable service. To assure maximum performance of your Tender it is mandatory that you thoroughly study the operator's manual and follow its recommendations. Proper operation and maintenance are essential for safety and to maximize machine life.

It is the owner, manager, and/or operators' responsibility to:

Operate and maintain this tender in a safe manner and in accordance with all applicable local, state, and federal codes and or laws; and in compliance with labeling instructions by the supplier of the chemicals being used.

Make sure each and every operator has read this manual and thoroughly understands safe and correct operating procedure.

Make sure unauthorized people neither operate the Tender nor are in the vicinity of the Tender while it is in operation.

Make sure the Tender is maintained to preserve and/or improve safety, accuracy, and reliability of the system. Read and follow the maintenance schedule in this manual. Furthermore, as additional technology becomes available, the owner is responsible for improving the safety, accuracy, and reliability of the Tender.

Fulfill all warranty obligations so as not to void the warranties. The warranty information on the following pages outlines the warranty policy of Heartland AG Systems and its suppliers.

Heartland Ag Systems, dba Heartland Agriculture, LLC reserves the right to make product improvements to the equipment at any time. Heartland AG Systems shall not be obligated to make such changes to the machines already in service.



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.



- 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 Agriculture, LLC



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 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.



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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.

3A

Safety Instructions



4A

Safety Instructions





THIS MESSAGE ALERT SYMBOL INDICATES IMPORTANT SAFETY MESSAGES IN THIS MANUAL. WHEN YOU SEE THIS SYMBOL, CAREFULLY READ THE MESSAGE THAT FOLLOWS AND BE ALERT TO THE POSSIBILITY OF PERSONAL INJURY OR DEATH.

Safety Decals on this machine use the words **Danger**, **Warning** or **Caution**, which are defined as follows:

- **DANGER:** Indicates an immediate hazardous situation which, if not avoided, will result in death or serious injury. The color associated with Danger is RED.
- **WARNING:** Indicates a potentially hazardous situation which, if not avoided will result in serious injury. The color associated with Warning is ORANGE.
- **CAUTION:** Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices. The color associated with Caution is YELLOW.



WARNING

IMPROPER OPERATION OF THIS MACHINE CAN CAUSE INJURY OR DEATH. BEFORE USING THIS MACHINE, MAKE CERTAIN THAT EVERY OPERATOR:

- Is instructed in safe and proper use of the machine.
- Reads and understands the Manual(s) pertaining to the machine.
- Reads and understands ALL Safety Decals on the machine.
- Clears the area of other persons.
- Learns and practices safe use of machine controls in a safe, clear area before operating this machine on a job site.

It is your responsibility to observe pertinent laws and regulations and follow Case Corporation instructions on machine operation and maintenance.

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The following chapter covers recommended safety instructions, along with other general recommendations and specific machine safety precautions that should be read thoroughly before operating the machine.

Safety

Read and comply with the operators manual and safety instructions before operating the machine.

Understand that your safety and the safety of other persons is measured by how you service and operate this machine. Know the positions and operation of all controls before you try to operate. **Make sure you check all controls in a safe area before starting your work.**

Read this manual completely and all other manuals provided with this vehicle, plus make sure you understand the controls. All equipment has a limit. Make sure you understand the speed, brakes, steering, stability, and load characteristics of this machine before you start to operate.

The safety information given in this manual does not replace safety codes, insurance needs, federal, state, and local laws. Make sure your machine has the correct equipment required by local laws and regulations.

Case Corporation is continuing to work for your safety by making tenders with better protection and by giving these rules for safe operation.



WARNING: THIS SAFETY ALERT SYMBOL INDICATES IMPORTANT SAFETY MESSAGES IN THIS MANUAL. WHEN YOU SEE THIS SYMBOL, CAREFULLY READ THE MESSAGE THAT FOLLOWS AND BE ALERT TO THE POSSIBILITY OF PERSONAL INJURY OR DEATH.

⚠ Personal Safety ⚠

Throughout this manual and on the machine's safety decals, you will find precautionary statements: **DANGER, WARNING, or CAUTION** followed by specific instructions or ISO two panel safety pictorial symbols. These precautions are intended for your personal safety.

Failure to follow the **DANGER, WARNING, or CAUTION** instructions may result in serious bodily injury or death.

- **DANGER:** Indicates an immediate hazardous situation that, if not avoided, will

- result in death or serious injury. The color associated with Danger is RED.
- **WARNING:** Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury. The color associated with Warning is ORANGE.
 - **CAUTION:** Indicates a potentially hazardous situation that, if not avoided, could result in minor or moderate injury. It may also be used to alert against unsafe practices. The color associated with Caution is YELLOW.
 - ISO two panel pictorial symbol decals are defined as follows:
 - The first panel indicates the nature of the hazard.
 - The second panel indicates the appropriate avoidance of the hazard.
 - Background color is YELLOW.
 - Prohibition symbols such as  and  and  if used, are RED.

⚠ Safety Rules ⚠

- DO NOT operate or service this machine unless you have read and understood the Operators Manual and have been properly trained in the machine's operation.
- Before starting the engine, be sure all operating controls are in neutral or park position. This will eliminate accidental movement of the machine or start up of power driven equipment.
- This machine requires an operator at all times. Never leave the machine running and unattended.
- ALWAYS be sure the work area is clear of persons before operating the machine. NEVER allow anyone in the work area during machine operation. DO NOT allow inexperienced persons to operate this machine.
- Sound horn of tow vehicle before operating the machine.
- **No Riders** - A frequent cause of personal injury or death is persons falling off and being run over. Do not permit others to ride.
- For road travel, use flashing warning lamps unless prohibited by law and keep SMV visible.

- ALWAYS put the controls in neutral, shut the engine off, apply the parking brake, and remove the key BEFORE exiting the tow vehicle.
- Extra weight and bad traction conditions, such as mud or ice, increase your stopping distance. Remember, a loaded machine increases the distance needed to stop.
- DO NOT smoke while servicing the machine.
- DO NOT operate the machine while under the influence of alcohol or drugs.
- Hydraulic oil or diesel fuel are high pressured systems. Make sure all lines and fittings are tight and in good condition. These fluids, escaping under pressure, can have sufficient force to penetrate skin and cause serious injury. Failure can result in serious injury or death.
- Escaping hydraulic fluid under pressure can have sufficient force to penetrate skin, causing serious injury. NEVER check for leaks by using any part of your body to feel for escaping fluid.
- Before servicing the machine, make sure the machine has cooled down. Hydraulic components can get hot enough to cause serious injury.
- After servicing the machine ALWAYS replace guards and shields. NEVER operate your machine with guards and shields removed.
- Be aware of all pinch points on the machine and keep clear.
- Keep bolts tight at all times. Always replace worn or broken parts immediately after they are discovered. Do not use the vehicle if any parts are not functioning properly.
- Do not replace parts with other than genuine factory parts. Doing so could decrease the effectiveness of safety features or the accuracy of the machine.
- This machine is designed for the farming industry. Comply with your local and state laws governing weight, lighting, licensing, overhang, bumpers, maximum width, transportation of chemicals, and any other regulations that might apply.

⚠ Safety ⚠

- When disconnecting battery terminals, remove the Negative (-) cable first; then remove the Positive (+). When connecting cables, connect the Positive (+) first, then connect the Negative (-).
- Disconnect the battery (both terminals) before welding on any part of the machine.

Failure to do so may cause damage to sensitive electrical components.

- BATTERY ACID CAUSES SEVERE BURNS. Batteries contain sulfuric acid. Avoid contact with skin, eyes or clothing. Antidote: EXTERNAL - flush with water. INTERNAL - drink large quantities of water or milk. Follow with milk of magnesia, beaten egg or vegetable oil. Call physician immediately. EYES - flush with water for 15 minutes and get prompt medical attention. BATTERIES PRODUCE EXPLOSIVE GASES. Keep sparks, flame and cigarettes away. Ventilate when charging or using in enclosed space. Always shield eyes when working near batteries. KEEP OUT OF REACH OF CHILDREN.
- When working around stage batteries, remember that all of the exposed metal parts are "live". Never lay a metal object across the terminals because a spark, short circuit, explosion or personal injury may result.

⚠ Electrical Line Safety ⚠

- Know the area before operating the machine. Be aware of power lines, electrical boxes, debris and rocks.
- Watch for adequate overhead clearance when operating the machine.

⚠ Machine Operation and Roll-Over Safety ⚠

- DO NOT ride or allow other persons to ride on the machine. Riders can fall or can cause an accident.
- DO NOT operate the machine while under the influence of alcohol or drugs.
- Be alert and always know the location of all workers in your area. keep all other persons completely away from your machine. Injury or death can result if you do not follow these instructions

⚠ Noise Level Safety ⚠

- Exposure to high noise levels may cause hearing loss. Wearing suitable hearing protective devices protects against loud noise.

⚠ Hazardous Chemicals ⚠

- If you are exposed to or come in contact with hazardous chemicals you can be

seriously injured. The fluids, lubricants, paints, adhesives, coolants, etc., used with your machine can be hazardous.

- Material Safety Data Sheets (MSDS) provide information about the chemical substances within a product, safe handling procedures, first aid measures and procedures to be taken when the product is accidentally spilled or released. MSDS are available from your chemical dealer. It is the operator's responsibility to be familiar with the safe handling of the chemical used.
- Before you service your machine, check the MSDS for each fluid, lubricant, etc., used in this machine. This information indicates what the risks are and how to service the machine safely. Follow this information when servicing the machine.
- Before you service this machine and before you dispose of the old fluids and lubricants, always remember the environment. DO NOT put oil or fluids into the ground or into containers that can leak.
- Check with your local environmental or recycling center or your dealer for correct disposal information.
- Personal Protective Equipment (PPE) is protective gear worn by pesticide handlers as specified in the use directions on a pesticide label.

⚠ Maintenance Safety ⚠

- Before you service the machine, place a Do Not Operate tag on the machine.
- Always keep safety and informational decals clean and visible. Replace decals that are damaged, lost, painted over or can not be read.
- When assembling, operating or servicing the machine, wear protective clothing and personal safety devices that are necessary for the particular procedure. Some personal safety devices that may be necessary are protective shoes, face and/or eye protection, hard hat, heavy gloves, filter mask and hearing protection.
- DO NOT wear jewelry or loose fitting clothing that may get caught in moving parts. Always wear close fitting clothing. Keep hands, feet, clothing and hair away from moving parts.
- Never attempt to clear obstructions or objects from the machine while the engine is running.
- Always stop the engine and remove the key from the key switch when leaving the operators seat or the machine.
- When servicing the machine, always have the machine on a firm level surface.

- If shield or guards are removed or opened for service, always replace them before operating the machine. Never operate the machine with missing or open shields or guards.
- Keep the area used for servicing the machine clean and dry. Wet or oily floors are slippery. Wet spots can be dangerous when working with electrical equipment. Be sure all electrical outlets and tools are properly grounded.

⚠ Tire Inflation ⚠

Consult your vehicles operator's manual for proper tire inflation.

First Aid Kit

It is recommended that you have a First Aid Kit on the job site and in your maintenance area.

Read Operators Manual

Decals which display the "Read Operators Manual" symbol are intended to direct the operator to the Operators Manual for further information regarding safety, maintenance, adjustments and/or procedures for specific areas of the machine.

When a decal displays symbol shown, refer to the appropriate page of the Operators Manual. Refer to the Detail Index at the end of this manual for locating specific items about your machine.

Fire Extinguisher

It is recommended that you have a fire extinguisher on your machine. A fire extinguisher is available from your dealer and can be installed on your machine.

This dry chemical fire extinguisher is approved for Class A, B and C type fires. The operating temperature is -54° to 49°C (-65° to 120°F).

Hand Signals

It is recommended that all persons on the job site use hand signals for communications. Before you start, make sure all persons understand the signals that will be used.

Start Engine**Stop Engine**

227L95

Come To Me

Move hands forward and rearward - palms in

**Move Away from Me**

Move hands forward and rearward - palms out



228L95

Go This Far**All Stop and Hold**

229L95

Stop

Move one hand back and forth



Emergency Stop

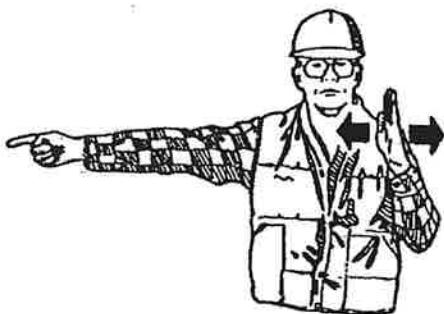
Move both hands rapidly back and forth



222L95

Turn Machine Left

To stop movement, stop moving hand and make a fist



Turn Machine Right

To stop movement, stop moving hand and make a fist



225LB5

Safety Decals

Check and replace any worn, torn, hard to read, or missing safety decals on your machine

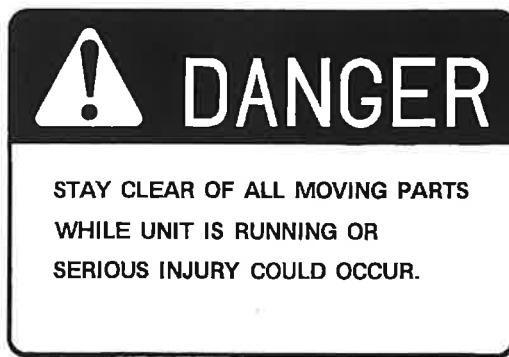
Safety Decal Pictorials



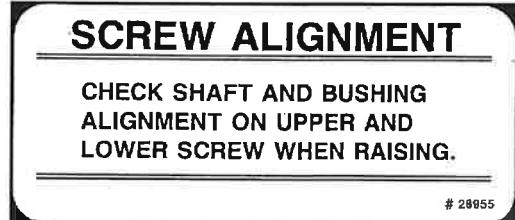
WATCH FOR
OVERHEAD
CLEARANCE
WHEN
OPERATING.



11495B

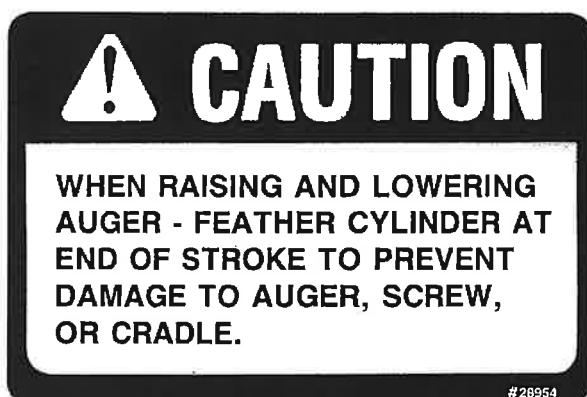
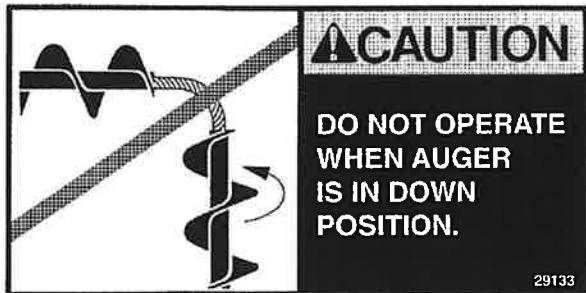


P/N 12182B



28955

Safety Decal Pictorials - continued



Your MT16 tender is designed to be mounted on a chassis for over-the-road transportation of granular fertilizer and chemicals. Comply with all local, state, and federal codes, laws, and /or regulations including, but not limited to:

- vehicle weight, height restrictions, and bumper, brake, and light requirements



Warning: Always wear proper personal protective equipment (PPE) when handling herbicides and other chemicals.

Caution: Fertilizer is very corrosive. Over time it will oxidize steel. This weakens steel parts and can cause possible safety hazards. Periodically check safety shields and structural members for corrosion. Replace or repair anything that could cause a potential safety hazard.

Operating Instructions



Operating Instructions

Operating Instructions

This chapter starts with a pre-operation checklist. Then it explains certain parts of the machine and how they operate. It also presents detailed instructions for the first time operators.

Pre-Operation Checklist



CAUTION: Read the Safety and Operating instructions section of this manual before operating the MT16/24 Series Tender.

Inspect unit

- Be sure all shipping fasteners are removed
- Check tender thoroughly for screws, bolts, fittings, etc., which may have come loose during shipping.

Transporting

Before transporting the unit, make sure it is secured to the truck bed, trailer, etc. Be sure that the tarp and auger are properly secured in place. Make sure the auger is in the "DOWN" position before transporting.

Operating the Tender

Truck Hydraulic

The hydraulic pump should supply 22 gallons per minute (GPM). Auger speed on the hydraulic unit is approximately 375 revolutions per minute (RPM). Specify PTO pump based on truck transmission and desired engine RPM's.

Engine/Hydraulic

Follow the engine manufacturer's recommendations in the maintenance manual. Check to see the engine has proper oil level before starting.

Operating Instructions

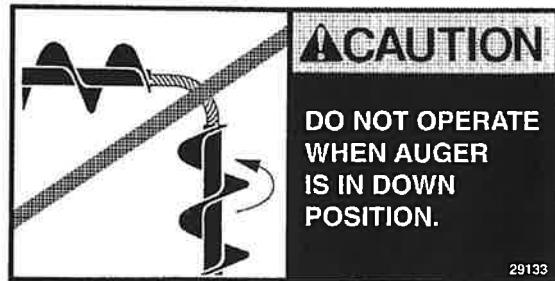
Unit

Make sure the auger is in the down position before transporting the tender. See that the cleanout door is shut and properly secured before loading. Always have the auger running before opening the hopper gate. Always shut the gate and empty the auger before shutting the auger off.

Auger

Units equipped with cable guide type of alignment

- Do not operate auger in the down position. Damage to the cable guide will result.
- Check set screws that hold cable guide in place. If they become loose the guide will slip down into the lower screw.

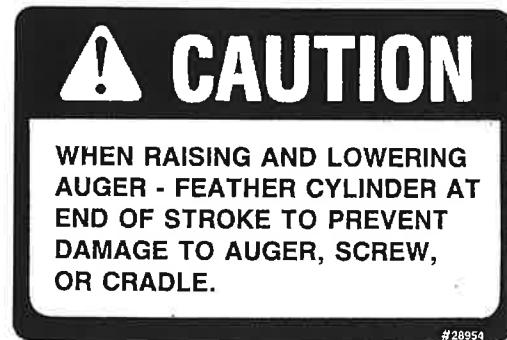


When raising and lowering auger

- Feather the hydraulic cylinder at the end of the stroke to prevent damage to auger, screw, or cradle.

On augers equipped with shaft and bushing type alignment

- Check alignment on upper and lower screw when raising the auger.



SCREW ALIGNMENT

CHECK SHAFT AND BUSHING
ALIGNMENT ON UPPER AND
LOWER SCREW WHEN RAISING.

28955

17A

Maintenance and Servicing



Daily Machine Maintenance

Overnight Storage

Avoid overnight storage of material in machine if at all possible.

Build-up Of Material

Hosing the machine out with water after each day's use will eliminate build-up if this is done before the material has hardened. The auger may be cleaned by unloading dry gravel or similar abrasive materials. Stainless units should be washed regularly, especially 409 stainless because fertilizers containing chlorides will pit and discolor the metal.



Caution: All residue that is washed off the tender must be disposed of in accordance with local, state, and federal EPA regulations.

Tarp

Loosen the tarp or open Flip top (or Roll tarp) so any excess moisture can escape.

Weekly Machine Maintenance

Greasing

Grease all fittings every 75 hours of operation. Use only one (1) pump of a standard grease gun per application. DO NOT USE AN AIR GUN.



Important: Do not over-grease. Over-greasing will break the seals on the bearings and allow fertilizer and dirt into the bearing; thereby, causing bearing failure.

Between Season Maintenance

Hopper Body

Clean all the old fertilizer out of the unit and wash it down thoroughly. Touch up with a rust preventative paint where needed. Clean and lubricate guides for hopper gates.

Auger

Clean auger by running coarse gravel or some other abrasive material through auger until cleaned. Be sure the clean out door is left open.



Caution: All residue that is washed off the tender must be disposed of in accordance with local, state, and federal EPA regulations.

Unit

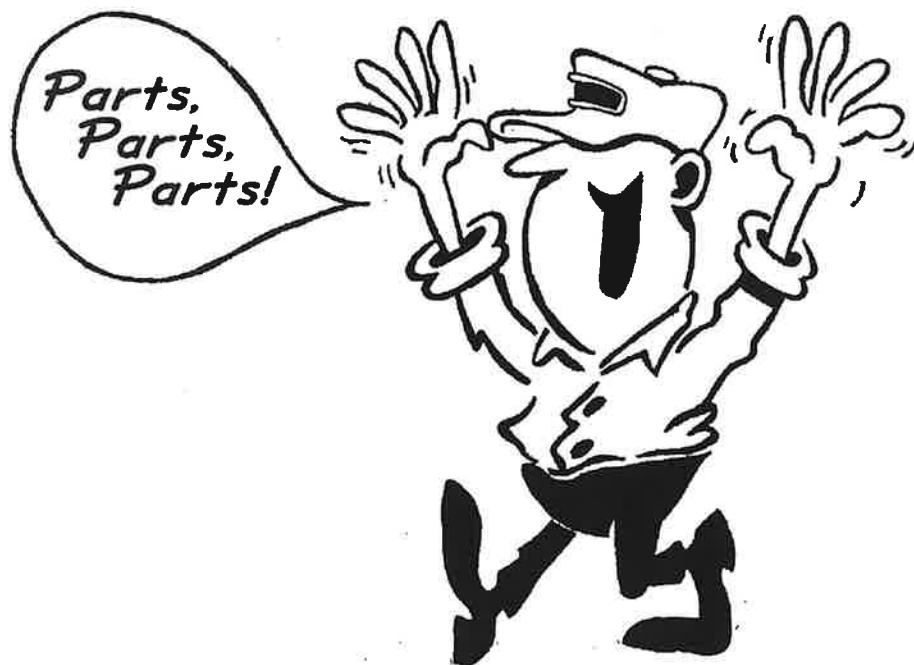
- Remove the tarp or open and secure Flip top (or Roll tarp) to prevent moisture from being trapped inside the hopper.
- If equipped with engine, remove the battery and store inside.
- If stored outside, cover the engine with a cover or tarp of some kind.

Care Of The Roller Chain

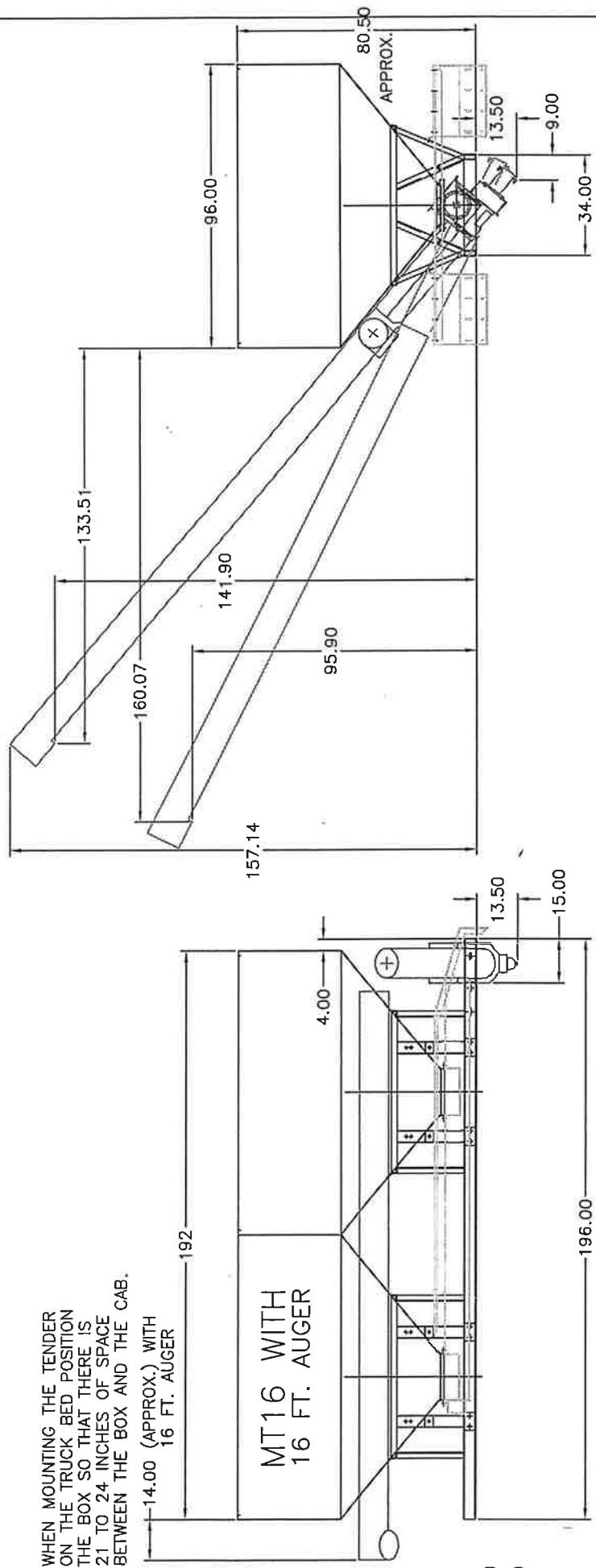
To prevent freezing of the roller chain due to rusting, remove and store submerged in fuel oil between seasons. Do not use regular oil for this purpose.

19A

Parts



WHEN MOUNTING THE TENDER
ON THE TRUCK BED POSITION
THE BOX SO THAT THERE IS
21 TO 24 INCHES OF SPACE
BETWEEN THE BOX AND THE CAB.
14.00 (APPROX.) WITH
16 FT. AUGER

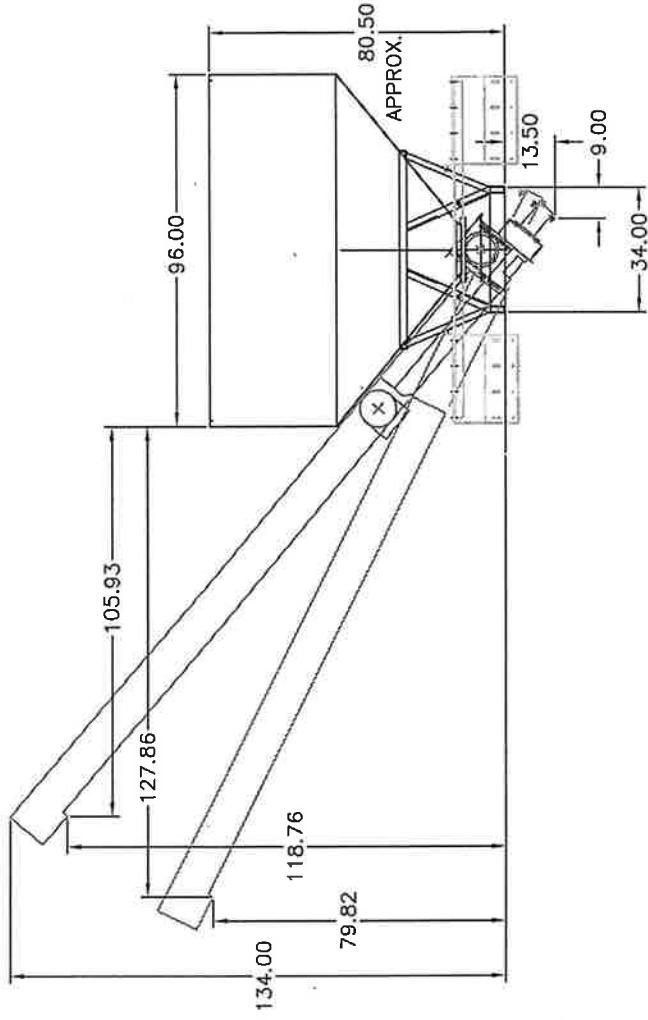
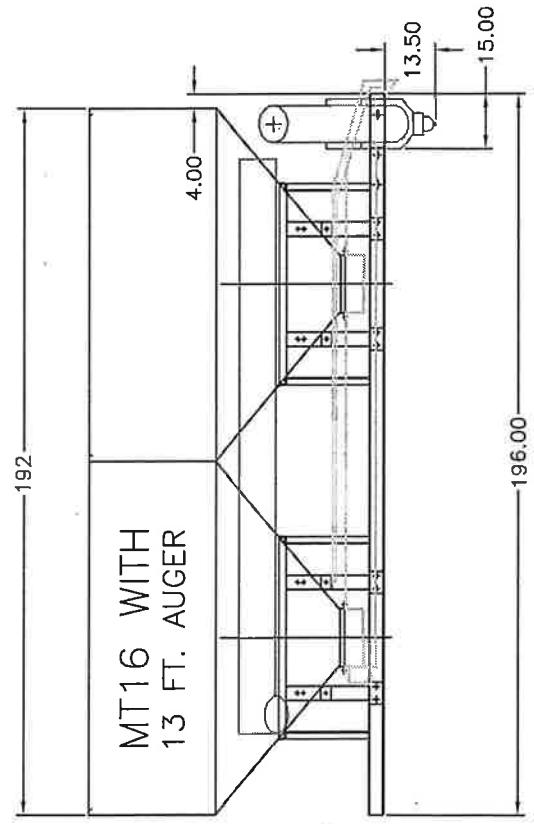


WITH 13 FT. UPPER AUGER
SEE ILLUSTRATION 28875

AG SYSTEMS INC. HUTCHINSON MN. 55350

NAME		DIMENSIONAL SPECS. W/16 FT. AUGER	
FIRST USED REV.	MT16	DATE	PART NUMBER
		03/07/05	28875AG

WHEN MOUNTING THE TENDER
ON THE TRUCK BED POSITION
THE BOX SO THAT THERE IS
5 INCHES OF SPACE
BETWEEN THE BOX AND THE CAB.



WITH 16 FT. UPPER AUGER
SEE ILLUSTRATION 28875AG

AG SYSTEMS INC. HUTCHINSON MN. 55350

NAME		DIMENSIONAL SPECS. W/13 FT. AUGER	
FIRST USED	MT16	DATE	03/07/05
REV.	DATE	PART NUMBER	28875

**MT16 MOUNTED ON A
TRUCK CHASSIS**

Mounting Illustration

STRUCK CAP. MT16 TENDER,
514 CU.FT. X 62# (MATL) - 31900#

 FERT. WT. ---- 31900#
 UNIT WT. ---- 3500#

 TOTAL WT. ---- 35400#
 DOES NOT INCLUDE
 WT. OF TRUCK

Formula to determine wt. per axle.

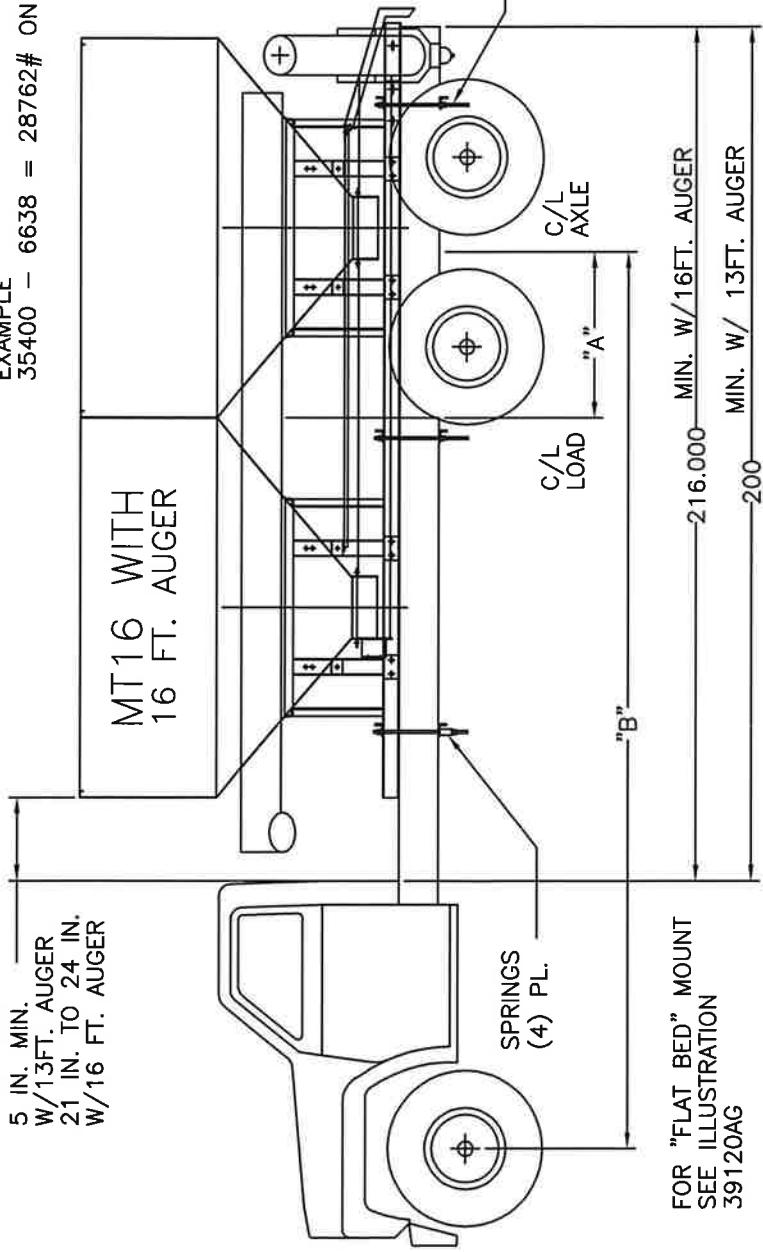
$$\frac{\text{TOTAL LOAD} \times \text{DIM"}A"}{\text{DIM"}B" (\text{WHL BASE})} = \text{WT. ON FRONT AXLE}$$

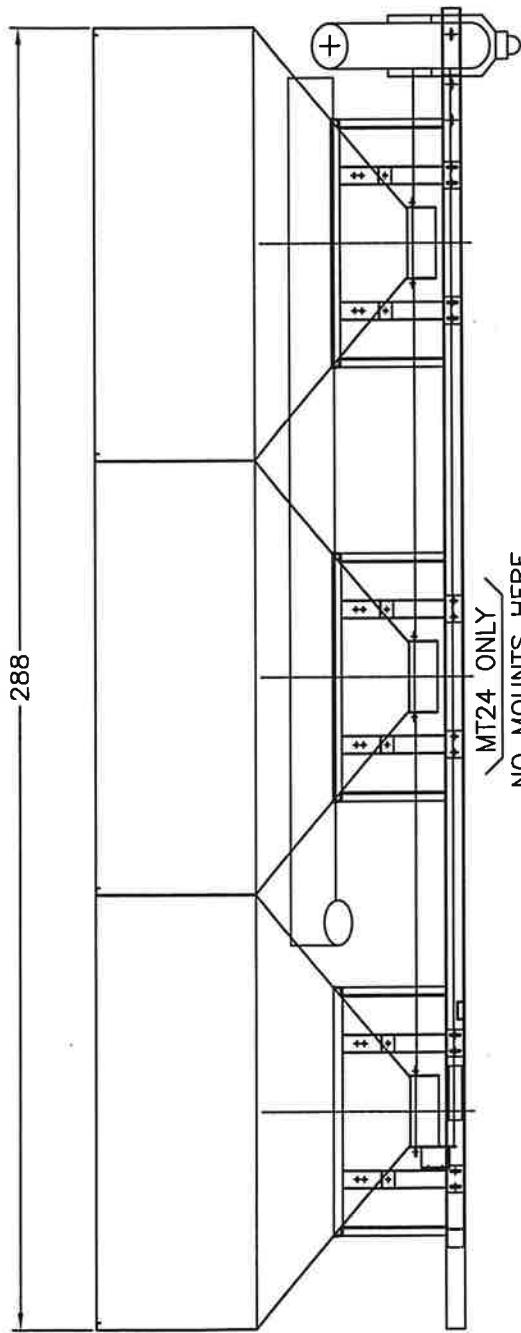
$$\begin{aligned} \text{EXAMPLE} \\ \frac{35400 \times 42 \text{ (DIM A)}}{224 \text{ (DIM B)}} &= 6638\# \text{ ON FRONT AXLE} \\ \\ \text{LOAD WT. MINUS WT. ON FRONT AXLE} &= \text{WT. ON REAR AXLE} \end{aligned}$$

$$\begin{aligned} \text{EXAMPLE} \\ 35400 - 6638 &= 28762\# \text{ ON REAR AXLE} \end{aligned}$$

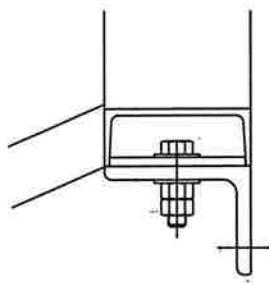
NOTE

INFO SHOWN TO BE USED
AS A GUIDE ONLY.
ACTUAL FIGURES MAY VARY
DEPENDING ON
TRUCK AXLES,
WHEELBASE,
CROSSMEMBER LOCATIONS,
WT. OF TRUCK
(NOT INCLUDED) ETC.





FOR MT24 ONLY, MOUNT ANGLES
AT FRONT & REAR HOPPERS ONLY.
INSTALL BOLTS WITH WASHERS UNDER
THE BOLT HEAD AND NUTS. INSTALL
SNUG ONLY SO THAT THE UNIT CAN FLEX.
(DOUBLE NUT THE BOLTS.)
THE ANGLES MAY BE WELDED TO THE
TRUCK FRAME OR BOLTED DOWN.
THIS HARDWARE IS NOT SUPPLIED.



MOUNTING KIT PN. 28978 CONTENTS

18092030	BOLT, 1/2-13NC. X 2	16
18811400	FLAT WASHER	32
18417400	HEX. NUT, 1/2-13NC	32
28976	OUNTING ANGLE	8
FOR MT32 USE (2)	COMPLETE KITS	
(16) ANGLES ETC.		

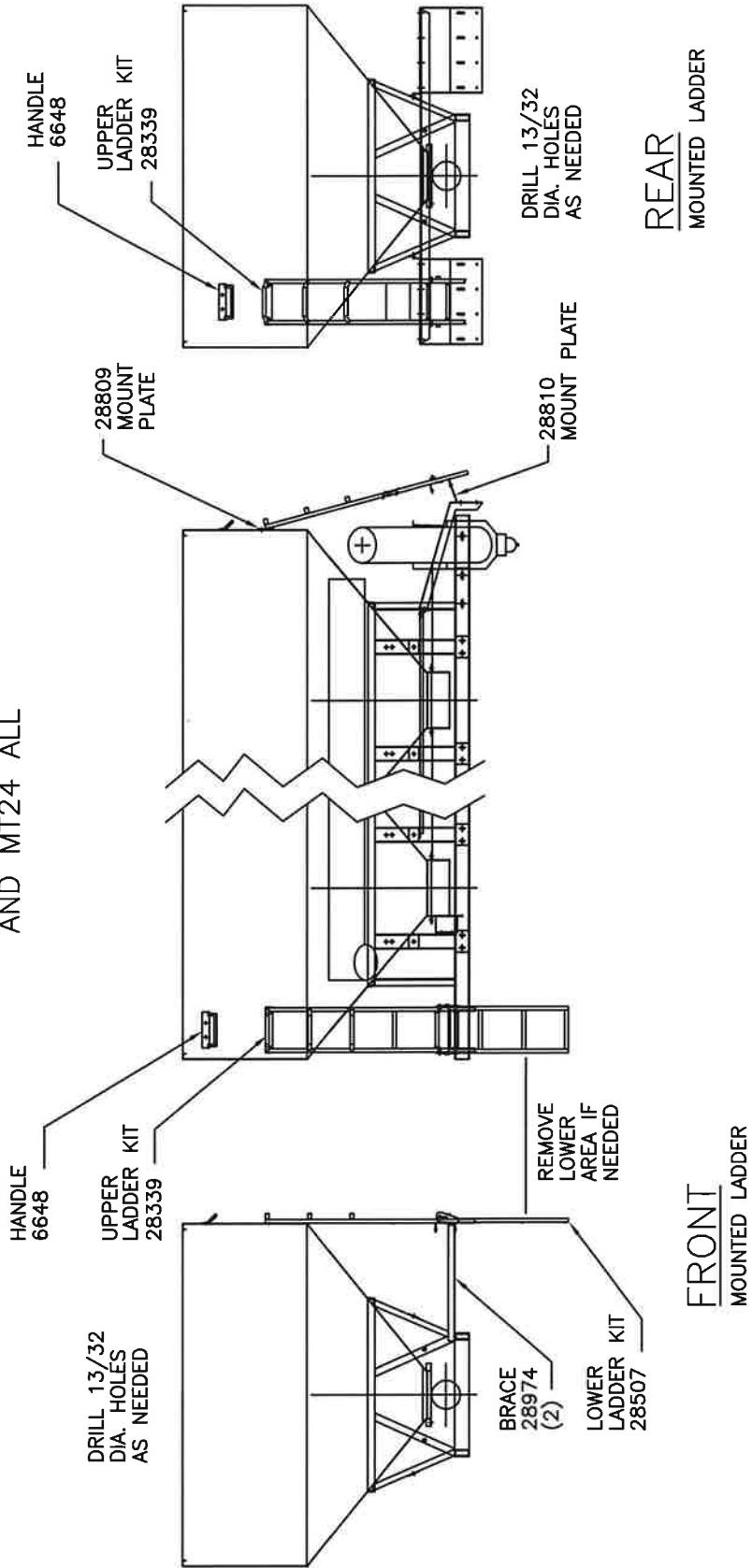
IMPORTANT
THE MOUNTING HARDWARE AS SHOWN IS INTENDED
FOR FLAT BOTTOM TRAILERS ONLY.
ANYTHING ELSE WILL REQUIRE SOME OTHER METHOD
AS DEVISED BY THE USER.

- ON TRAILERS WITH HIGH BEDS, SPECIAL CARE SHOULD
BE TAKEN BECAUSE OF THE HIGH CENTER OF GRAVITY.
ADDITIONAL TIE-DOWNS SHOULD BE USED,
SUCH AS CHAIN BINDERS AND
SLOWER SPEEDS ON THE ROAD SHOULD
BE MAINTAINED.

AG SYSTEMS INC.	HUTCHINSON MN. 55350	NAME TRAILER MOUNTING ILLUSTRATION
Mount Tender, MT16 & MT24 AND MT32	FIRST USE MT16, MT24 & MT32 REV. DATE	DATE 03/07/05 PART NUMBER 39120AG

LADDER MOUNTING

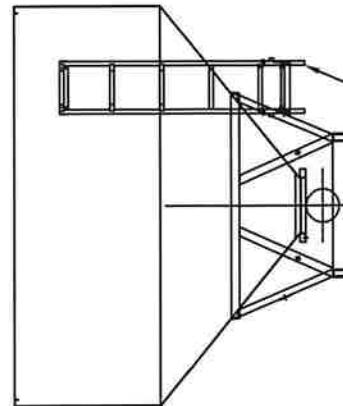
MT16 WITH
13 FT. AUGER
AND MT24 ALL



LADDER MOUNTING
MT16 WITH
16 FT. AUGER

28975AG

DRILL 13/32
DIA. HOLES
AS NEEDED

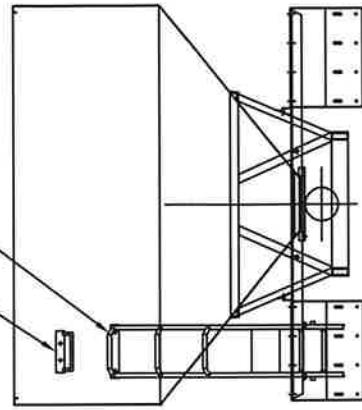


FRONT
MOUNTED LADDER

BRACE
28974
(2) REQ'D.
BOLT TO "GATE ARM" SUPPORT
DRILL 13/32
DIA. HOLES
AS NEEDED

DRILL 13/32
DIA. HOLES
AS NEEDED

DRILL 13/32
DIA. HOLES
AS NEEDED



REAR
MOUNTED LADDER

DRILL 13/32
DIA. HOLES
AS NEEDED

DRILL 13/32
DIA. HOLES
AS NEEDED

DECAL LISTING

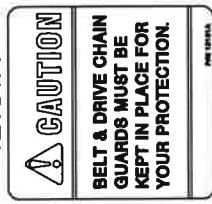
(DECALS NOT TO SCALE)

REF	PART #	QTY	DESCRIPTION
1	11495B	1	WATCH FOR OVERHEAD CLEARANCE
2	12181A	1	CAUTION BELT & DRIVE CHAIN
3	12182B	1	DANGER STAY CLEAR
4	12429A	1	CAUTION READ SERVICE MANUAL
5	28223	1	DRAIN OIL FROM TANK
6	28864	1	DANGER KEEP AWAY FROM HINGE
7	28954	1	CAUTION RAISING/LOWERING
8	29133	1	CAUTION DO NOT OPERATE
9	699107L	2	HEARTLAND AG SYSTEMS (MEDIUM)
10	28882A	1	CONTROL DRIVE LEVERS
11	54133	3	HEARTLAND AG SYSTEMS (X-LARGE)
12	276534	1	HYDRAULIC OIL LOGO
13	87268088	1	DANGER DO NOT ENTER FERT. TANK
14	USA	1	MADE IN USA
15	71613	1	MT16 (DITCH SIDE)
16	71614	1	MT16 (DRIVER SIDE)
17	699125	2	SAFETY DECAL (INCLUDED W/ SAFETY BAR KIT)
18	71672	1	CAUTION DISCHARGE (INCLUDED W/ CATWALK)

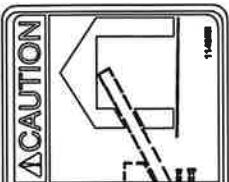
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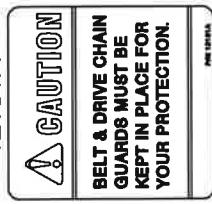
12181A



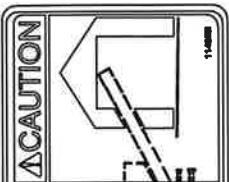
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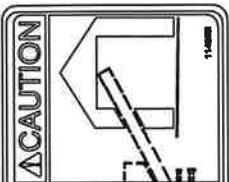
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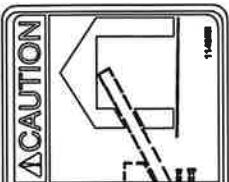
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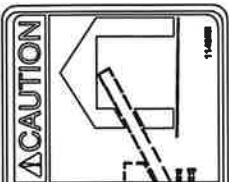
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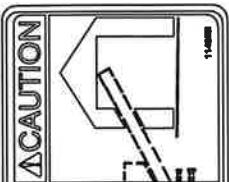
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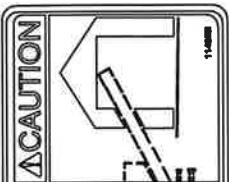
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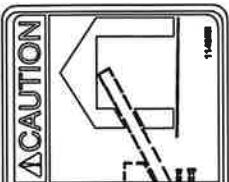
699107L



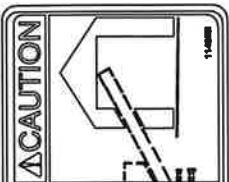
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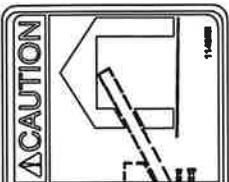
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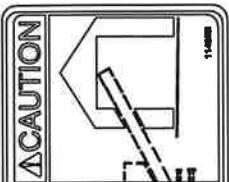
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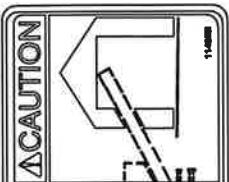
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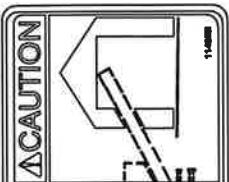
USA



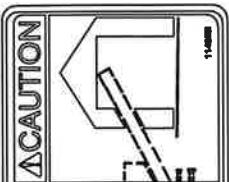
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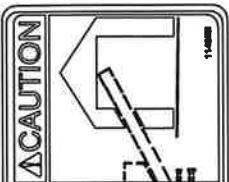
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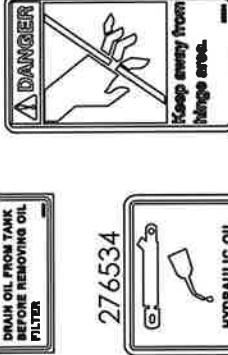


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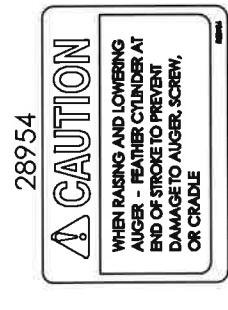


26

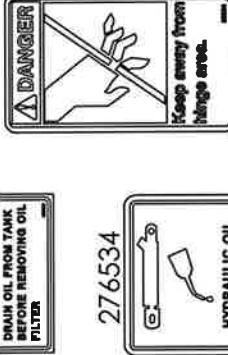
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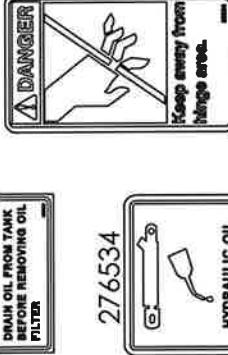
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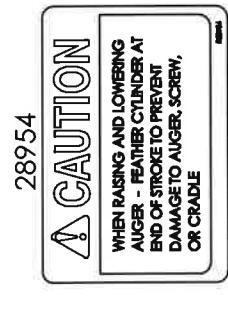
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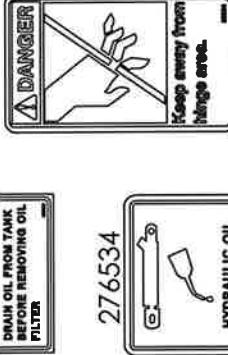
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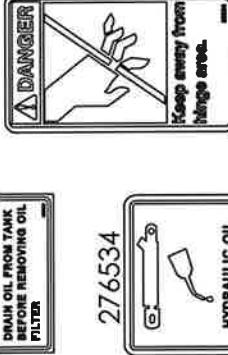
54133



699125



28882A



12181A



12182B



12429A



28223



28864



28954



29133



699107L



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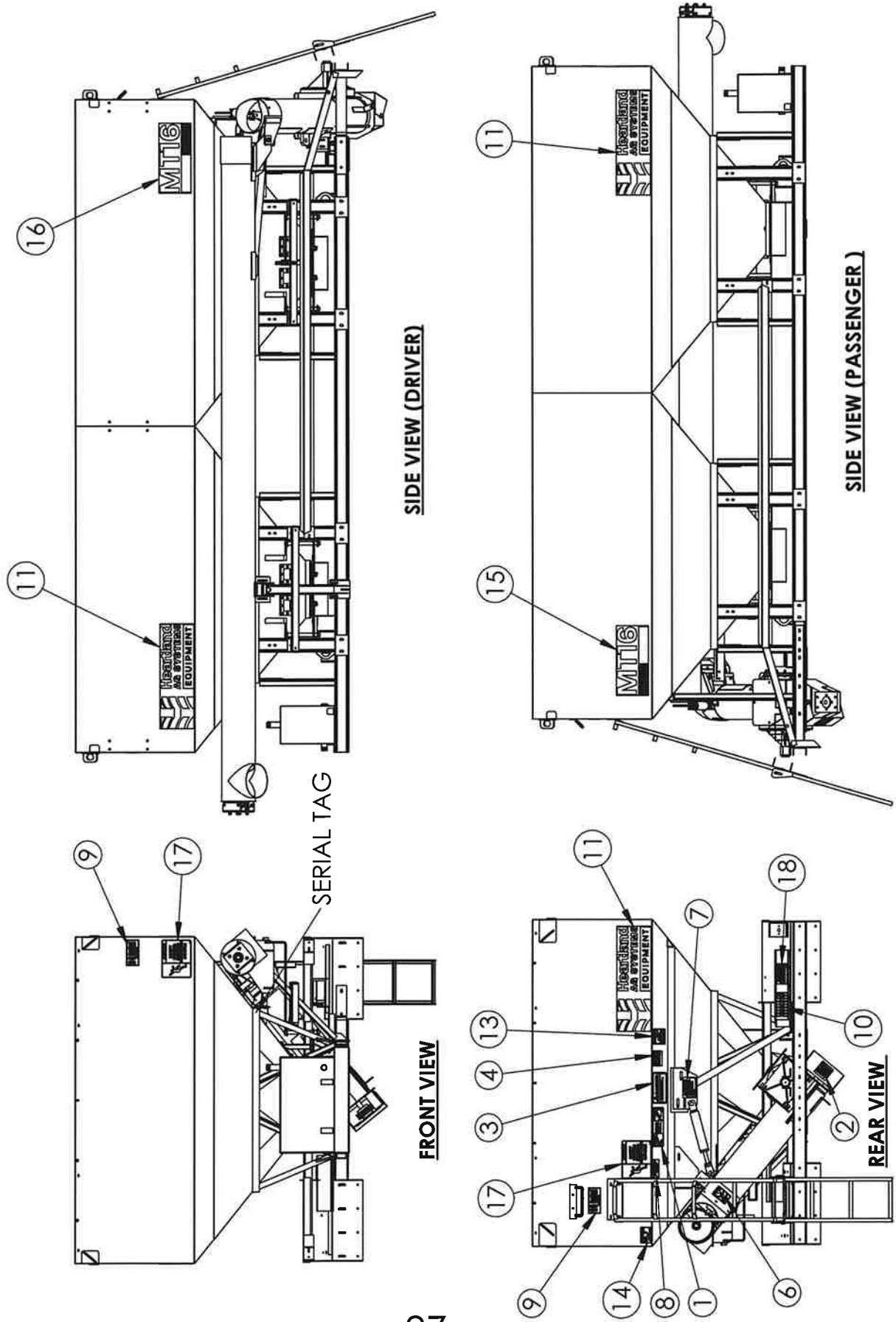
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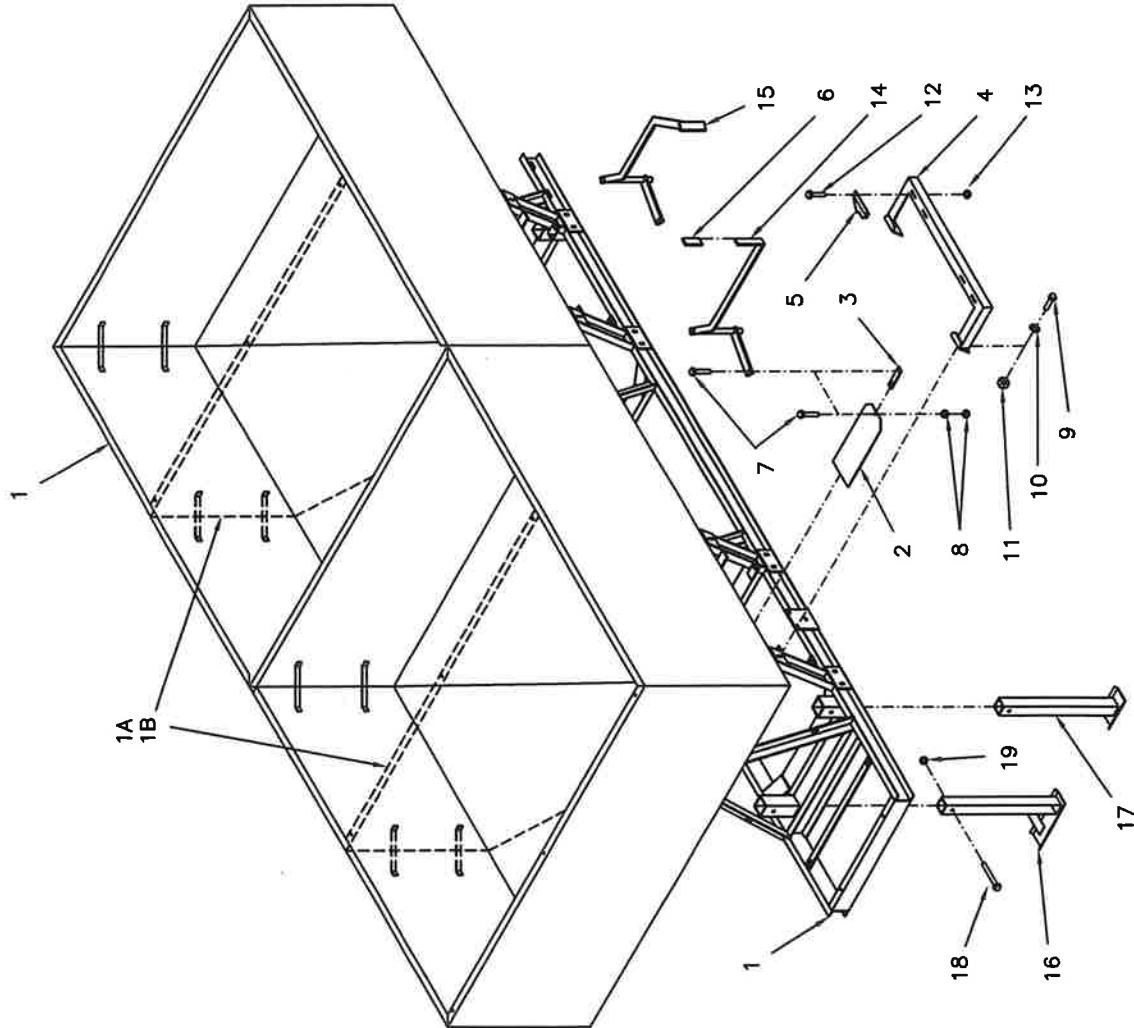
28882A



DECAL LAYOUT SHEET



MT16 TENDER
BODY AND FRAME
ILLUSTRATION
LEFT SIDE VIEW



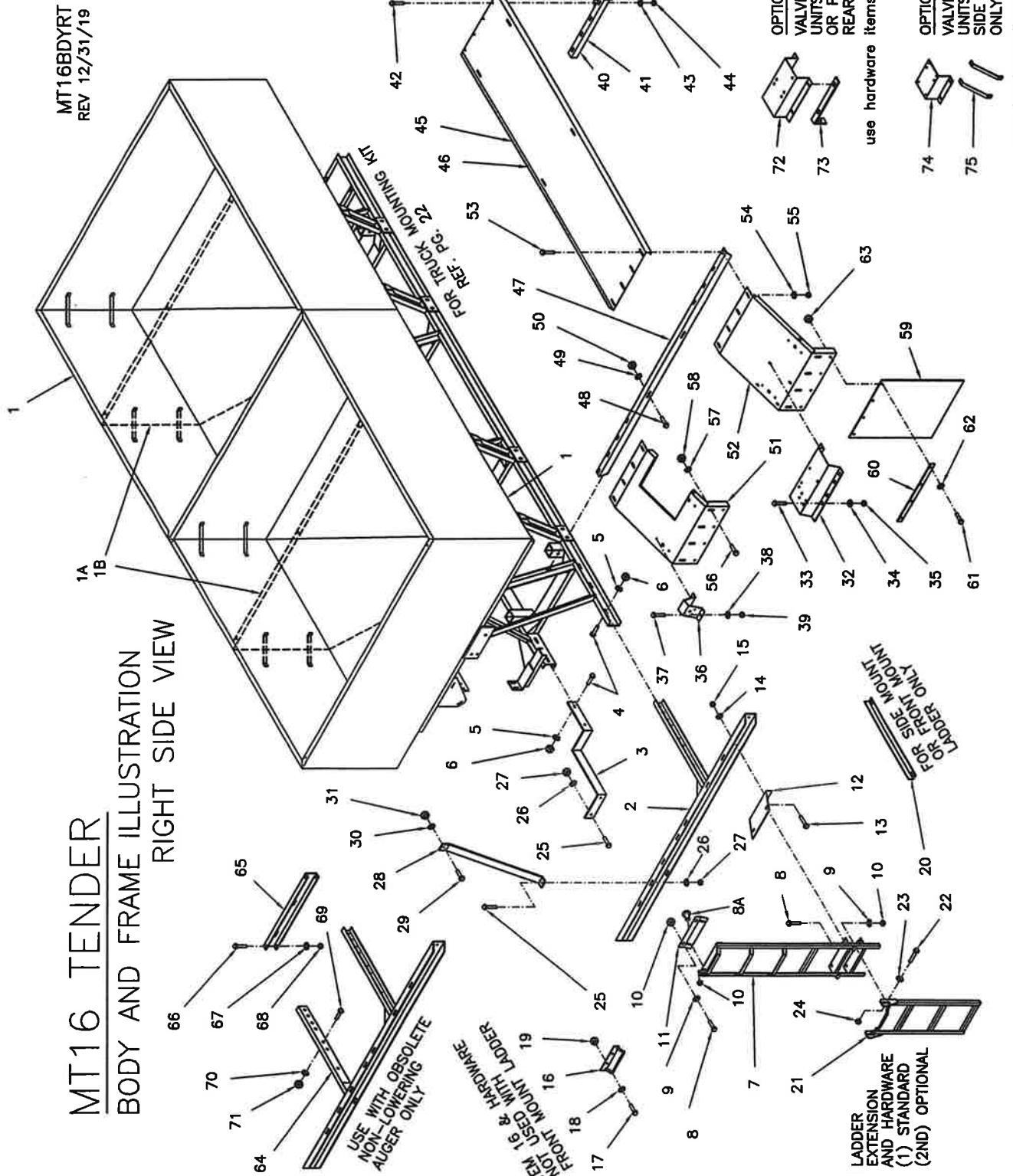
ITEM PART NO.	DESCRIPTION	QTY
1 39556	BODY/FRAME, 2 COMP. STD (409 S.S. BOX, SEE NOTE)	1
1A 39556A	BODY/FRAME, 4 COMP OPTIONAL (409 S.S. BOX, SEE NOTE)	
1B 39556AS	BODY/FRAME, 4 COMP OPTIONAL (304 S.S. BOX, SEE NOTE)	
1C 39556AS-SR	BODY/FRAME, 5 COMP OPTIONAL (304 S.S. BOX, SPLIT-REAR, SEE NOTE)	
28761	BODY/FRAME, NON-LWRG AGR OBS	
48300242	BODY/FRAME, MT16LSA OBS	
2 18889A	GATE PLATE	4
3 28111A	LINKAGE	4
4 28612	GATE ARM MOUNT	2
5 28109	ARM STOP	4
6 54143A	VINYL HANDLE GRIP	5
7 18026826	BOLT, 3/8-16NC. X 1 1/2 SS 8	
8 18476800	HEX. NUT, 3/8-16NC SS 16	
9 18026824	BOLT, 3/8-16NC. X 1 1/4 SS 4	
10 18991200	FLAT WASHER, 3/8 SS 4	
11 18476800	HEX. NUT, 3/8-16NC SS 4	
12 18026422	BOLT, 5/16-18NC. X 1.00" SS 8	
13 18987700	FLANGE NUT, 5/16-18NC SS 8	
14 _____	HANDLE, (2) L.H. & (1) R.H.	
15 _____	HANDLE, REAR GATE (1)	
ITEMS 14 & 15	ARE WELDED IN PLACE AT ASSEMBLY.	
FOR REPAIR PARTS ORDER-		
28112	SHAFT, 1" DIA. X 10 1/2	
28113	COMMON ARM	
28114A	HANDLE, LEFT HAND	
28115A	HANDLE, RIGHT HAND	
303433	HANDLE, REAR (TEE TYPE)	
16 47005524	SAFETY STAND, AUGER SIDE	2
17 47005525	SAFETY STAND, HANDLE SIDE	2
18 18057446	BOLT, 1/2-13NC. X 4 ZC. 4	
19 18417400	HEX. NUT, 1/2-13NC. ZC. 4	

ITEMS 16 TO 19 ARE USED FOR STORAGE AND TRANSPORT ONLY. MAY BE RETURNED FOR CREDIT.

NOTE:
PRIOR TO 2016 THE 409 SS BOXES WERE ALL WHITE / AFTER 2016 THE 409 BOXES HAVE A WHITE UPPER/BLACK LOWER PORTION
IN 2016 THE SS BOX WAS INTRODUCED, IT HAS A NATURAL FINISH (UNPAINTED) UPPER/BLACK LOWER PORTION
PLEASE MENTION YEAR OF TENDER, TO RECEIVE CORRECTLY PAINTED ACCESSORIES

MT16 TENDER

BODY AND FRAME ILLUSTRATION RIGHT SIDE VIEW



NOTE:
ALL HARDWARE IS
STAINLESS STEEL
EXCEPT WHERE NOTED

MT 16 TENDER
BODY AND FRAME ILLUSTRATION
(RIGHT SIDE) PARTS LIST

		ITEM	PART NO.	DESCRIPTION	QTY.
1	39556	BODY/FRAME, LA (2 COMP'T STD) (409 S.S. BOX SEE NOTE)	1	40 28163 LIGHT BRACKET, FRONT- L.H. 41 28164 LIGHT BRACKET, FRONT- R.H.	1 1
1A	39556A	BODY/FRAME, LA (4 COMP' OPTION) (409 S.S. BOX SEE NOTE)	1	42 18026422 BOLT, 1/2-18NC, X 1 43 18991100 FLAT WASHER, 5/16 NYLOCK NUT, 5/16-18NC ZC	8 16
1B	39556AS	BODY/FRAME, LA (4 COMP' OPTION) (304 S.S. BOX SEE NOTE)	1	44 18457500	8
1C	39556AS-SR	BODY/FRAME, LA (5 COMP' OPTION) (304 S.S. BOX, SPLIT REAR, SEE NOTE)	1	28815A OPTIONAL FENDER KIT (INCLUDES ITEMS 36 THRU 58) (INCLUDES 28340 LIGHT KIT)	-
2	28761	BODY/FRAME, "NON-LWRG AUGER" BUMPER, "LOWERING AUGER" (STD)	1	45 28815 FENDER, LEFT HAND 46 28816 FENDER, RIGHT HAND	1 1
3	39051	BRACE	1	47 28787 FENDER SUPPORT 48 18470175 BOLT, 1/2-13NC, X 1 3/4	3 6
4	18470175	BOLT, 1/2-13NC, X 1 3/4	1	49 18824800 FLAT WASHER, 1/2 50 18567400 NYLOCK NUT, 1/2-13NC	12
5	18824800	FLAT WASHER, 1/2-13NC	1	51 39060 FENDER EXTENSION, L.H. (STD)	6
6	18567400	FLANGE NUT, 1/2-13NC	1	52 FOR LOWERING AUGER ONLY (FOR NON-LWRG. AUGER USE (2) OF ITEM 52)	1
7	28124A	REF."UPPER" LADDER KIT P.N. LADDER, UPPER	2	53 28866 FENDER EXTENSION, R.H. 54 18026824 BOLT, 3/8-16NC, X 1 1/4	16
8	18026822	BOLT, 3/8-16NC, X 1	2	55 18991200 FLAT WASHER, 3/8 56 18566400 NYLOCK NUT, 3/8-16NC	32
8A	18706621	SCREW, MACH. 3/8 X 3/4 TR SL	4	56 18026824 BOLT, 3/8-16NC, X 1 1/4 57 18991200 FLAT WASHER, 3/8 58 18566400 NYLOCK NUT, 3/8-16NC	16
9	18991200	FLAT WASHER, 3/8	8	59 OPTIONAL MUD FLAP KIT P.N. 33244 (INCLUDES ITEMS 59 THRU 63)	-
10	18566400	NYLOCK NUT, 3/8-16NC	8	60 76714 SPLASH GUARD 60 47006320 MOUNTING STRAP	2 2
11	28809	MOUNT BRACKET, UPPER	2	61 18056826 BOLT, 3/8-16NC, X 1 1/2 62 18811200 FLAT WASHER, 3/8 63 18459200 NYLOCK NUT, 3/8-16NC	ZC 8 ZC 16 ZC 8
12	28810	MOUNTING BRACKET, LOWER	1		
13	18026824	BOLT, 3/8-16NC, X 1 1/4	2		
14	18991200	FLAT WASHER, 3/8	4		
15	18566400	NYLOCK NUT, 3/8-16NC	2		
16	06648	HANDLE (LADDER)	2		
17	18026822	BOLT, 3/8-16NC, X 1	4		
18	18991200	FLAT WASHER, 3/8	8		
19	18566400	NYLOCK NUT, 3/8-16NC	4		
20	28974	BRACE, LADDER (SIDE OR FNT. MNT.)	1		
	ITEM 20 USED FOR SIDE/FRONT MOUNT LADDER ONLY				
28507	EXTENSION LADDER KIT INCLUDES ITEMS 21 TO 24				
21	28125	EXTENSION LADDER	1	1 OPTIONAL BUMPER FOR NON- LOWERING AUGER ONLY	1
22	18027438	BOLT, 1/2-13NC, X 3	2	64 02550 BUMPER WELDMENT (OBSOLETE)	1
23	18824800	FLAT WASHER, 1/2	2	65 28808 FRAME BRACE (OBSOLETE)	1
24	18567400	NYLOCK NUT, 1/2-13NC	2	66 18026824 BOLT, 3/8-16NC, X 1 1/4	4
25	18026824	BOLT, 3/8-16NC, X 1 1/4	3	67 18991200 FLAT WASHER, 3/8	8
26	18991200	FLAT WASHER, 3/8	6	68 18987900 FLANGE NUT, 3/8-16NC	4
27	18566400	NYLOCK NUT, 3/8-16NC	3	69 18022026 FLAT WASHER, 1/2-13NC, X 1 1/2	6
28	39052	BRACE, BUMPER	1	70 18824800 FLAT WASHER, 1/2	12
29	18026822	BOLT, 3/8-16NC, X 1	1	71 18567400 NYLOCK NUT, 1/2-13NC	6
30	18991200	FLAT WASHER, 3/8	2		
31	18566400	NYLOCK NUT, 3/8-16NC	1		
32	28922A	VALVE BRACKET (STANDARD)	1		
33	18026822	BOLT, 3/8-16NC, X 1	4	72 29928 VALVE MOUNT (Optional)	1
34	18991200	FLAT WASHER, 3/8	3	73 39144 SUPPORT, VALVE MOUNT (Optional)	2
35	18566400	NYLOCK NUT, 3/8-16NC	4		
36	28818	LIGHT BRACKET, REAR	2		
37	18026422	BOLT, 5/16-18NC, X 1	4	OPTIONAL FOR UNITS WITH DRIVERS SIDE REAR CONTROLS	
38	18991100	FLAT WASHER, 5/16	8	74 47005798 MOUNT, CONTROL VALVE (Optional)	1
39	18457500	NYLOCK NUT, 5/16-18NC ZC	4	75 47005786 BRACE, VALVE MOUNT (Optional)	2

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NOTE:
PRIOR TO 2016 THE 409 SS BOXES WERE ALL WHITE / AFTER 2016 THE 409 BOXES HAVE A WHITE UPPER/BLACK LOWER PORTION
IN 2016 THE SS BOX WAS INTRODUCED, IT HAS A NATURAL FINISH (UNPAINTED) UPPER/BLACK LOWER PORTION
PLEASE MENTION YEAR OF TENDER, TO RECEIVE CORRECTLY PAINTED ACCESSORIES

MT16 AUGER ILLUSTRATION HORIZONTAL AND UPPER UNLOADER

WHEN CONVERTING FROM ITEM 48A TO ITEM 48,
ITEM 73 CLAMP COLLAR (P/N: STA-1L104HD)
IS REQUIRED FOR THE END OF THE AUGER SHAFT.

2022 & NEWER

(PRE 2019)

48A

48 & NEWER

(2019 & NEWER)

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MT16 AUGER PARTS LIST

HORIZONTAL AND UPPER UNLOAD AUGER

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY	
1	39039	HORIZONTAL AUGER ----- HORIZONTAL AUGER TUBE, HORIZ. AUGER SCREW WELDMENT	1	40*	28958	----- AUGER TUBE, 16 FT. (DISCONTINUED)	1	
2	28829	----- HORIZ. AUGER SCREW WELDMENT	1	41*	28804	AUGER TUBE, 13 FT. (DISCONTINUED)	N/A	
--	--	-----	-	41*	28957	AUGER TUBE, 17 FT. (DISCONTINUED)	N/A	
--	--	DRIVE KEY, 1/4 X 1/4 X 1 1/2	-	29027	SCREW, SCREW,	13 FT. (DISCONTINUED)	N/A	
3	47006519	CLEAN-OUT DOOR	1	28959	SCREW, GREASE ZERK, 90 DEGREE	17 FT. (DISCONTINUED)	N/A	
4	28811	BOLT, 3/8-16NC. X 1	S.S.	42	18901806	PIVOT TUBE	1	
5	18026822	FLAT WASHER, 3/8	S.S.	43	307623	THREADED ROD, 1-8NC. X 15 3/8	1	
6	18991200	NYLOCK NUT, 3/8-16NC.	S.S.	44	28807A	WASHER, FLAT 1" SAE ZC	4	
7	18566400	FLANGE BRG, 1" BORE	S.S.	45	18852200	HEX. NUT, 1-8NC.	2	
8	10500	BOLT, 3/8-16NC. X 1 1/2	S.S.	46	18439000	JAM NUT, 1-8NC.	2	
9	18026826	NYLOCK NUT, 3/8-16NC.	S.S.	47	18449005	AUGER GUIDE SHAFT (2019 & NEWER)	1	
10	18566400	MOTOR MOUNT PLATE	S.S.	48	47003537	SCREW GUIDE CABLE ASS'Y (PRE 2019)	1	
11	29921	BOLT, 3/8-16NC. X 1 1/4	S.S.	48A	29028	IS SHOWN FOR REFERENCE ONLY)-----	1	
12	18026824	FLAT WASHER, 3/8	S.S.	49	28846A	CRADLE SUPPORT BRACE	1	
13	18991200	NYLOCK NUT, 3/8-16NC.	S.S.	50	18026824	BOLT, 3/8-16NC. X 1 1/4	S.S.	
14	18566400	BOLT, 1/2-13NC. X 1 3/4	S.S.	51	18991200	FLAT WASHER, 3/8	S.S.	
15	18470175	NYLOCK NUT, 1/2-13NC.	S.S.	52	18566400	NYLOCK NUT, 3/8-16NC.	S.S.	
16	18567400	SPROCKET, #50B18, 1" BORE	S.S.	53	28835A	CRADLE SUPPORT	1	
17	10181	COUPLING CHAIN, #50-2 X 17 LINKS	1	54	18026826	BOLT, 3/8-16NC. X 1 1/2	S.S.	
18	17701	CONNECTOR, #50-2	1	55	18991200	FLAT WASHER, 3/8	S.S.	
19	53159	TUBE ADAPTER	1	56	18566400	NYLOCK NUT, 3/8-16NC.	S.S.	
20	71107	CONNECTION ASSEMBLY	1	57	18026824	BOLT, 3/8-16NC. X 1 1/4	S.S.	
21	--	-----	-	58	18991200	FLAT WASHER, 3/8	S.S.	
22	--	BOLT, 3/8-16NC. X 1	S.S.	59	18566400	NYLOCK NUT, 3/8-16NC.	S.S.	
23	18026822	NYLOCK NUT, 3/8-16NC.	S.S.	60	18026824	BOLT, 3/8-16NC. X 1 1/4	S.S.	
24	18566400	TUBE CLAMP	1	61	18991200	FLAT WASHER, 3/8	S.S.	
25	39024	TUBE CRADLE, (HORIZONTAL)	1	62	18566400	NYLOCK NUT, 3/8-16NC.	S.S.	
26	39020	CRADLE SUPPORT, (HORIZ. TUBE)	1	63	299862	TUBE CRADLE	4	
27	39048	BOLT, 3/8-16NC. X 1 1/2	S.S.	64**	52056	FLANGE BRG, 1 1/4 BORE	1	
28	18026826	FLAT WASHER, 3/8	S.S.	65**	18026824	BOLT, 3/8-16NC. X 1 1/4	S.S.	
29	18991200	NYLOCK NUT, 3/8-16NC.	S.S.	66**	18991200	FLAT WASHER, 3/8	S.S.	
30	18566400	BOLT, 3/8-16NC. X 1 1/4	S.S.	67**	18987900	FLANGE NUT, 3/8-16NC.	S.S.	
31	18026824	FLAT WASHER, 3/8	S.S.	68	07132	HYDRAULIC CYLINDER, (3 1/2 X 8)	1	
32	18991200	NYLOCK NUT, 3/8-16NC.	S.S.	69	--	--	REPAIR PARTS ONLY	
33	18566400	BOLT, 1/2-13NC. X 1 3/4	S.S.	70	86632567	CYLINDER PIN,	2	
34	18470175	FLAT WASHER, 1/2	S.S.	71	18560826	COTTER PIN, 3/16 X 1 1/2	2	
35	18824800	NYLOCK NUT, 1/2-13NC.	S.S.	72	18852200	FLAT WASHER, 1" SAE	2	
36	18567400	STRETCH STRAP (BUNGEE)	2	73**	STA-1L104HD	CLAMP COLLAR, 1 1/4"	1	
37	01078	----- (* - ITEMS 64, 65, 66, 67 & 73 ARE FOR PRE 2022 UNITS AND OLDER)	(** - CONNECTION ASSEMBLY #47003700 REPLACES #39034 STARTING FALL 2019) FOR REPLACEMENT ON UNITS THAT ORIGINALLY CAME WITH PART #39034, ORDER P/N: 47003700 AND P/N: 71107)	(* ITEMS 40 & 41 ARE INCLUDED IN THE UPPER UNLOAD AUGER ASSEMBLY) (UPPER UNLOAD AUGER ASSEMBLY P/N: 29151 BREAKDOWN ON NEXT 2 PAGES)	ITEM 68 SWITCHED FROM A WELDED CYLINDER TO A TIE ROD (AUGUST 2023) STARTING S/N: 1080. MAY NEED TO MODIFY, OR REPLACE GUIDE WELDMENT P/N:39016 FOR ADDITIONAL CLEARANCE ON PREVIOUS MODEL YEARS WHEN REPLACING CYLINDER			

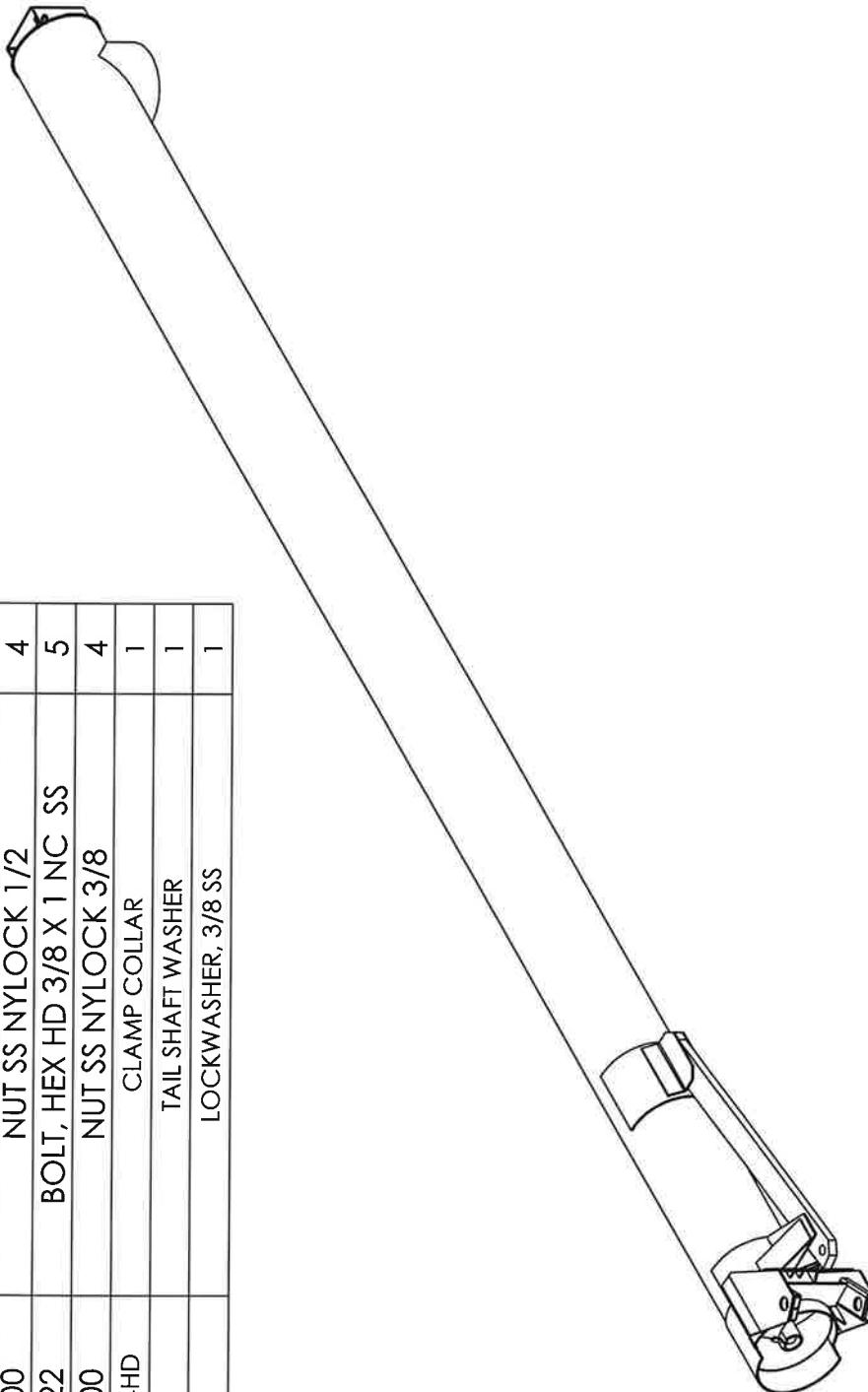
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16' UNLOAD AUGER TUBE ASSEMBLY

P/N: 29151

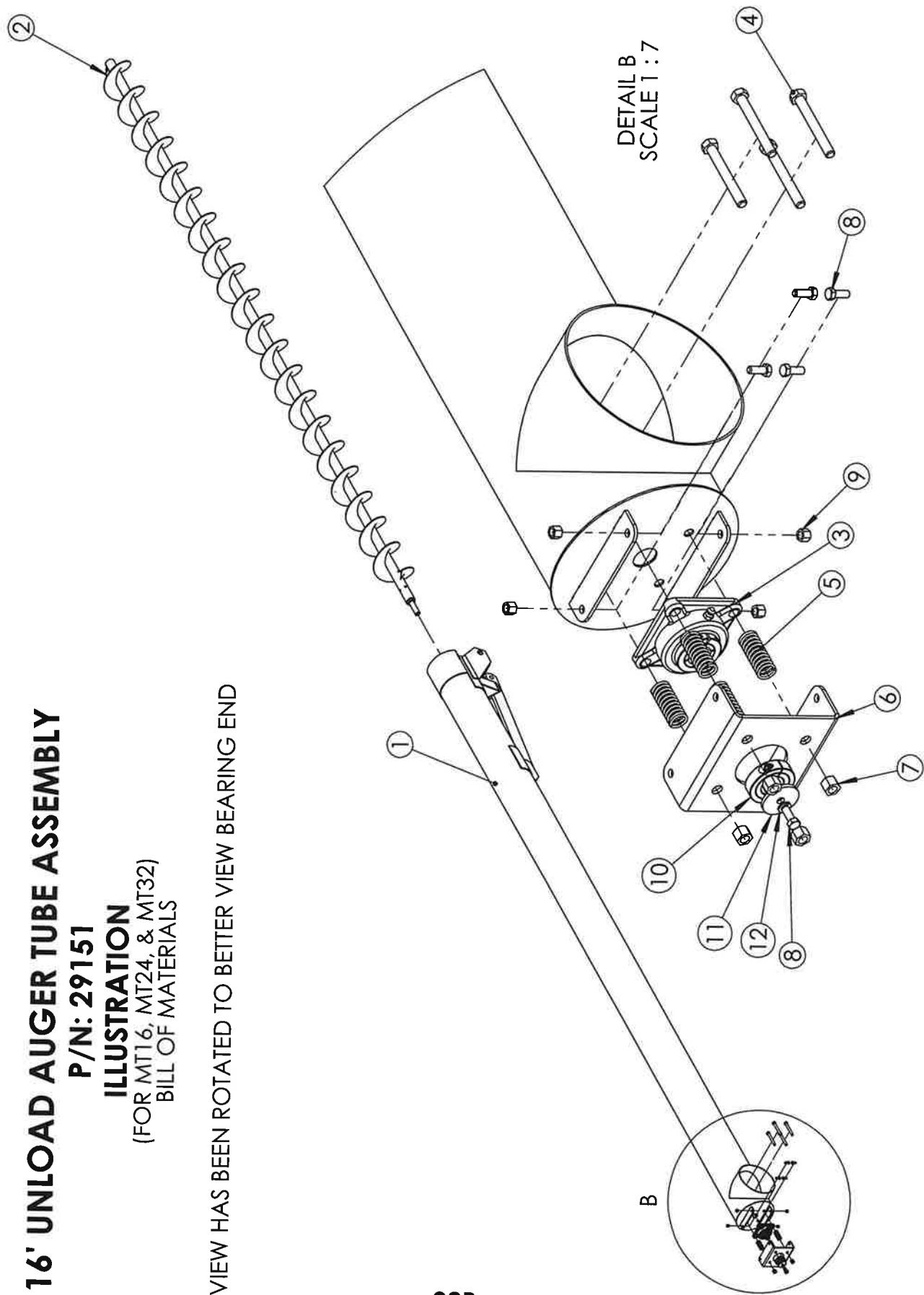
PART LISTING
(FOR MT16, MT24, & MT32)
BILL OF MATERIALS

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	28958	16' AUGER WELDMENT	1
2	28960A	SCREW WELDMENT, RH	1
3	71251	FOUR BOLT FLANGE MOUNT BEARING	1
4	18997446	BOLT 1/2NC X 4 LG SS	4
5	71252	COMPRESSION SPRING (SS)	4
6	71250	BEARING COVER	1
7	18567400	NUT SS NYLOCK 1/2	4
8	18026822	BOLT, HEX HD 3/8 X 1 NC SS	5
9	18566400	NUT SS NYLOCK 3/8	4
10	STA-1L104HD	CLAMP COLLAR	1
11	71715	TAIL SHAFT WASHER	1
12	18881201	LOCKWASHER, 3/8 SS	1



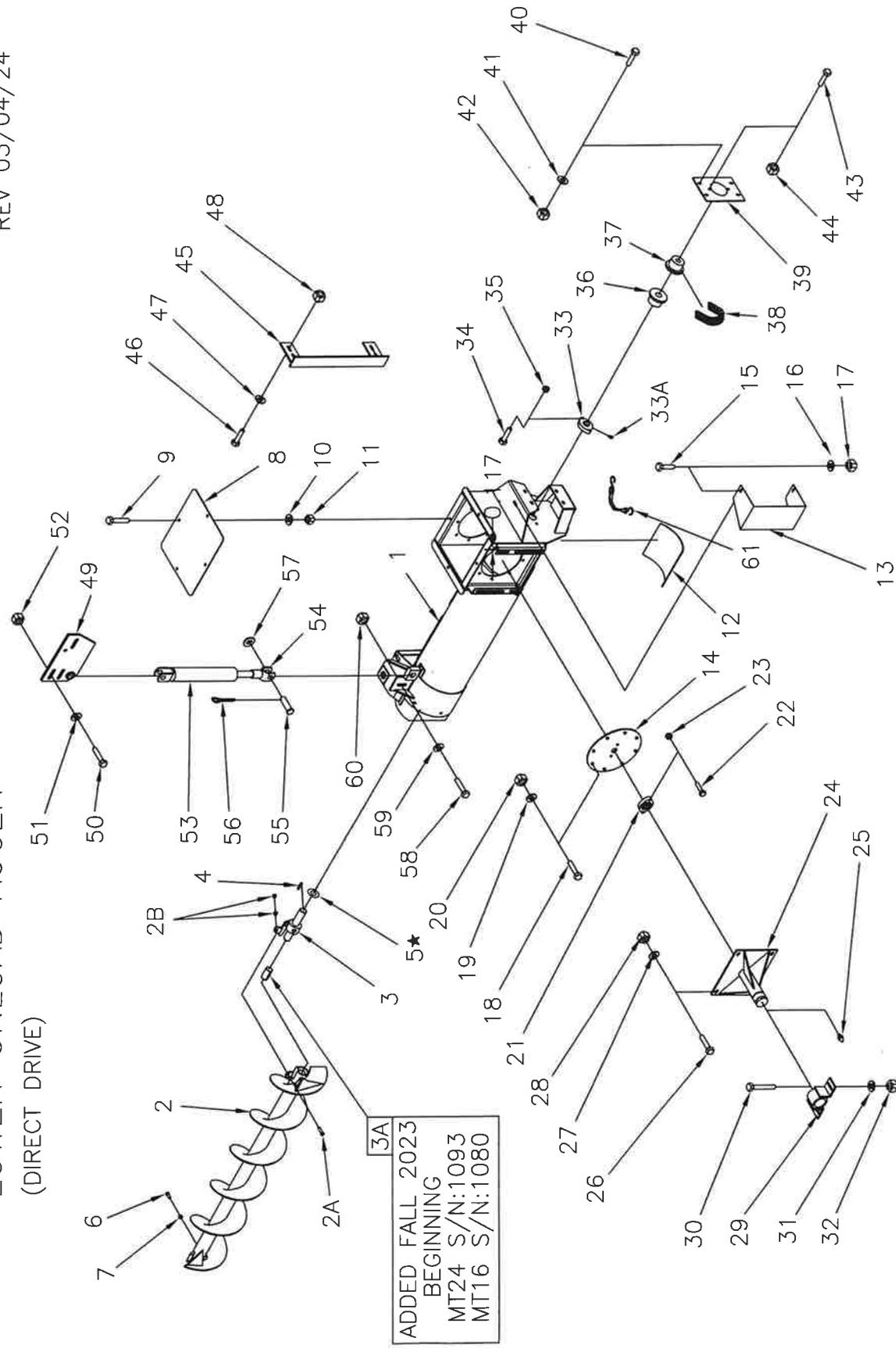
16' UNLOAD AUGER TUBE ASSEMBLY
P/N: 29151
ILLUSTRATION
(FOR MT16, MT24, & MT32)
BILL OF MATERIALS

VIEW HAS BEEN ROTATED TO BETTER VIEW BEARING END



MT16 MT24 AND
MT32 LOWER UNLOAD AUGER
(DIRECT DRIVE)

MT16AGRLU
03-24-10
REV 03/04/24



MT16, MT24 & MT32
AUGER PARTS LIST

MT16AGRULST
03-24-10
REV 03/04/24

LOWER UNLOAD AUGER

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	308132	AUGER TUBE,	1	33	30708	FLANGE BRG. 1 1/4 BORE	1
2	29026	SCREW,	1	33A	18901807	GREASE ZERK 45°, 1/4-28	1
2A	18026826	BOLT, 3/8-16 X 1 1/2 SS	1	34	18026826	BOLT, 3/8-16NC, X 1 1/2	2
2B	18476800	NUT, HEX 3/8-16 SS	2	35	18566400	NYLOCK NUT, 3/8-16NC.	2
3	29931	DRIVE PIN WELDMENT	1	36	31407	SPROCKET, #50B24, 1 1/4 BORE	1
3A	71910	AUGER DRIVE BUSHING	1	37	10183	SPROCKET, #50B24, 1" BORE	1
4	47006519	DRIVE KEY, 1/4 SQ. X 1 1/2	1	38	29941	COUPLING CHAIN, #50-2 X 23 LINKS	1
5*	50165	MACHINERY WASHER, 1 1/4 X 10 GA.	1	53159	CONNECTOR, #50-2	1	
6	18026822	S.S.	2	39	29921	MOTOR MOUNT PLATE	1
7	18476800	S.S.	2	40	18026824	BOLT, 3/8-16NC, X 1 1/4	4
8	28704	COVER PLATE	1	41	18991200	FLAT WASHER, 3/8	8
9	18026824	BOLT, 3/8-16NC. X 1 1/4	4	42	18566400	NYLOCK NUT, 3/8-16NC.	4
10	18991200	FLAT WASHER, 3/8	8	43	18022026	BOLT, 1/2-13NC. X 1 1/2	2
11	18566400	NYLOCK NUT, 3/8-16NC.	4	44	18567400	NYLOCK NUT, 1/2-13NC.	2
12	28918	CLEAN-OUT DOOR	1	45	39016	AUGER GUIDE	1
13	29927	SHIELD, HYDRAULIC MOTOR	1	46	18026824	BOLT, 3/8-16NC. X 1 1/4	4
14	28828	END CAP	1	47	18991200	FLAT WASHER, 3/8	4
15	18026824	BOLT, 3/8-16NC. X 1 1/4	2	48	18566400	NYLOCK NUT, 3/8-16NC.	4
16	18991200	FLAT WASHER, 3/8	4	49	39047	CYLINDER ANCHOR	1
17	18566400	NYLOCK NUT, 3/8-16NC.	2	50	18470175	BOLT, 1/2-13NC. X 1 3/4	3
18	18026822	BOLT, 3/8-16NC. X 1	8	51	18824800	FLAT WASHER, 1/2	3
19	18991200	FLAT WASHER, 3/8	8	52	18567400	NYLOCK NUT, 1/2-13NC.	3
20	18566400	NYLOCK NUT, 3/8-16NC.	8	53	39254	HYDRAULIC CYLINDER,	1
21	10500	FLANGE BRG. 1" BORE	1	54	92395	REPAIR CLEVIS ONLY	2
22	18026826	BOLT, 3/8-16NC. X 1 1/2	2	55	98180	CYLINDER REPAIR KIT	2
23	18566400	NYLOCK NUT, 3/8-16NC.	2	55	86632567	(NOT SHOWN)	2
24	39025	AUGER PIVOT WELDMENT	1	56	18560826	COTTER PIN, 3/16 X 1 1/2	2
25	18901805	GREASE ZERK, STRAIGHT	1	57	18852200	FLAT WASHER, 1" SAE	2
26	18026824	BOLT, 3/8-16NC. X 1 1/4	4	58	58, 59, AND 60	ITEMS 58, 59, AND 60 INSTALLED FOR SHIPPING ONLY	1
27	18991200	FLAT WASHER, 3/8	8	58	18470175	BOLT, 1/2-13NC. X 1 3/4	2
28	18566400	NYLOCK NUT, 3/8-16NC.	4	59	18824800	FLAT WASHER, 1/2	1
29	39028	PIVOT MOUNT	1	60	18567400	NYLOCK NUT, 1/2-13NC.	2
30	18026830	BOLT, 3/8-16NC. X 2	2	61	01078	BUNGEE CORD	1
31	18991200	FLAT WASHER, 3/8	4				
32	18566400	NYLOCK NUT, 3/8-16NC.	2				

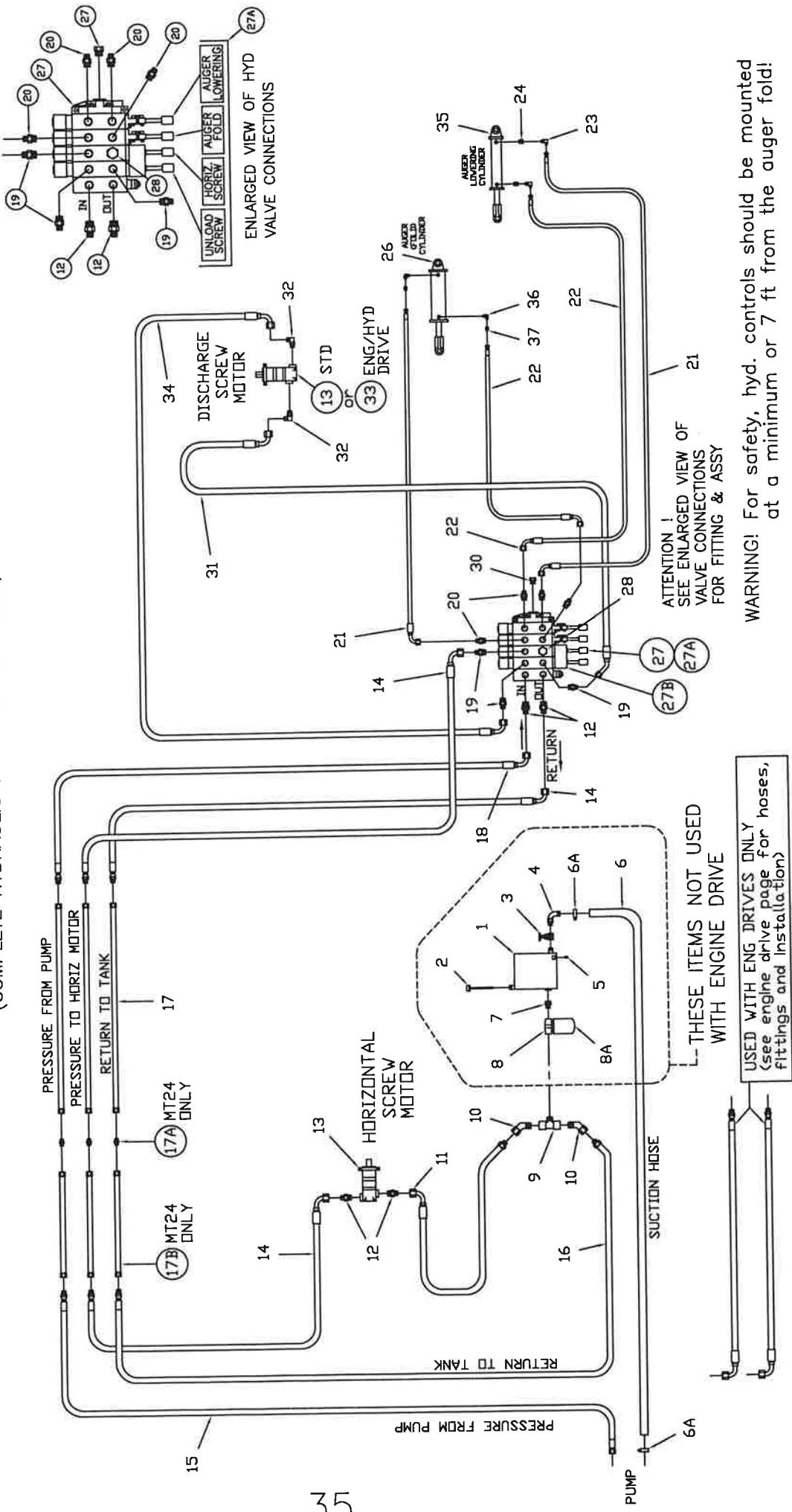
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ITEM 3A - P/N: 71910 ADDED FALL 2023 (STARTING MT24 S/N: 1093 AND MT16 S/N: 1080)
CAN BE RETROFITTED ON PREVIOUS MODEL YEARS TO REDUCE AUGER RUNOUT

* STARTING FALL 2023 QTY 1 - P/N: 50165 (10 GA) & QTY 1 - P/N: 50169 (14 GA) SHIPS LOOSE WITH MANUAL,
IN CASE P/N: 29026 REQUIRES HEIGHT ADJUSTMENT, AFTER BREAK IN PERIOD. THE MACHINE SHIPS STANDARD
FROM FACTORY WITH QTY 1 - P/N: 50165 (10 GA) WASHER INSTALLED.

29152
10/26/21

**MT16/MT24 TENDER
BASIC HYDRAULIC SYSTEM FOR
MT16/MT24 WITH REAR MOUNTED CONTROLS
(COMPLETE HYDRAULIC PLUMBING KIT 29152)**



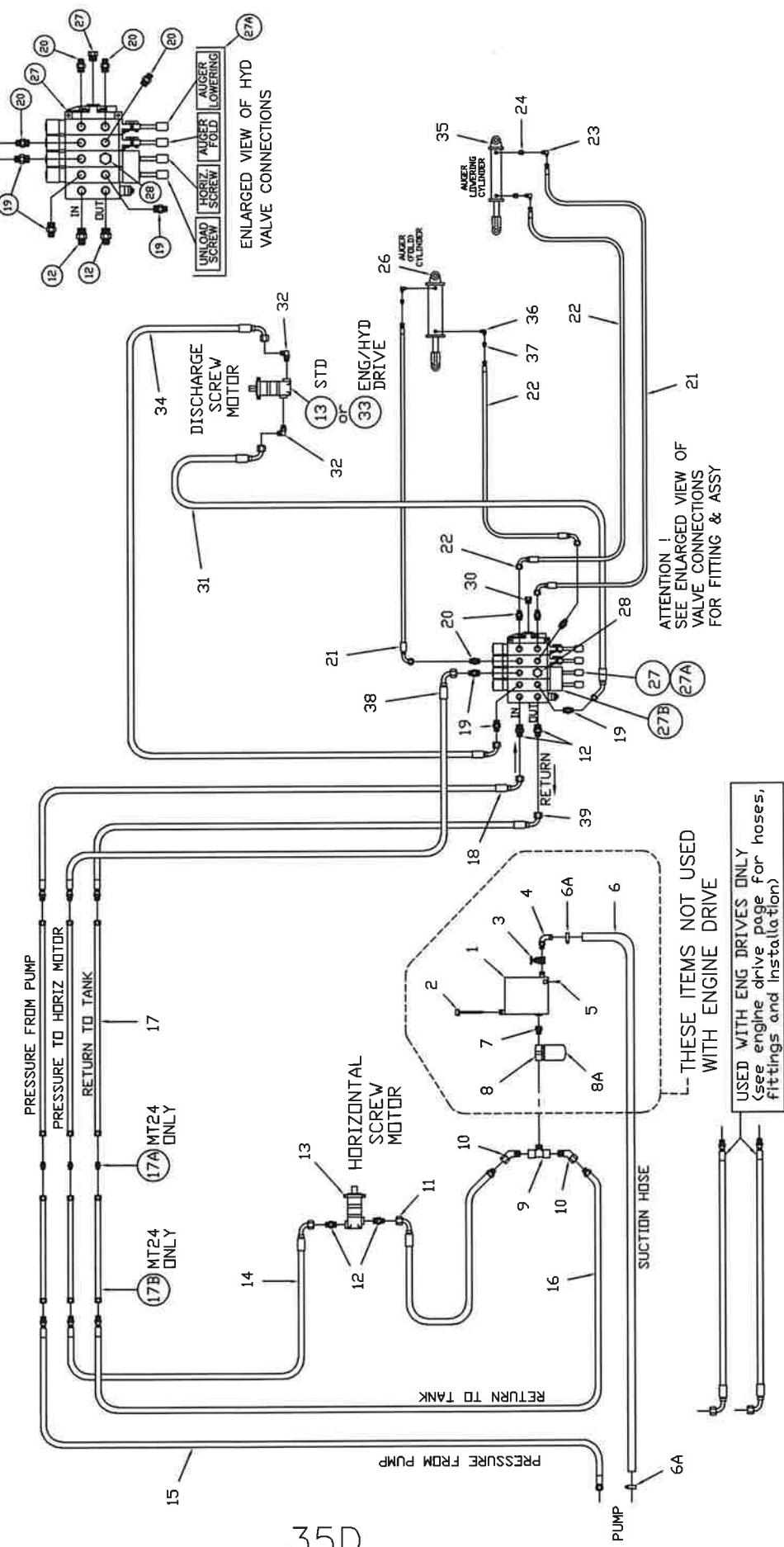
MT16 AND
MT24HYDRAULIC PLUMBING (BASIC)MT29152LST
09-09-09
REV 03/03/23PARTS LIST COMPLETE P.N. 29152
FOR REAR MOUNTED CONTROL VALVEWARNING! FOR SAFETY, HYD CONTROLS MUST BE MOUNTED
A MINIMUM OF 7FT FROM THE AUGER FOLD !

<u>ITEM</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
		DELETE ITEMS 1 TO 8 WHEN USING "ENGINE DRIVE PACKAGE"	
1	38711	TANK, HYDRAULIC OIL (20 GAL.)	1
2	02153	DIPSTICK	1
3	02006	GATE VALVE, 1 1/4 NPT.	1
4	72368	HOSE BARB, 90° 1 1/4P X 1 1/4H	1
5	72175	OIL TANK PLUG 1/2" NPT	1
6	not included	HOSE, 1 1/4 I.D. X 80 (CUT LENGTH)	1
6A	not included	HOSE CLAMP, 1 1/2 inch	2
7	51933	HEX. PIPE NIPPLE,(5404-16-12)	1
8	01170	FILTER, COMPLETE	1
8A	11128	FILTER ELEMENT ONLY	
9	51682	TEE, 3/4 NPT(M) X 3/4 NPT(F)(2 PL)	1
10	51062	ELBOW, 45° 3/4 NPT(M) X 3/4 NPT(F)	2
11	53558	HOSE ASSY, 3/4" X 24" #12JICF X 3/4M PIPE	1
12	444001	ADAPTER, (6400-12)	4
13	51930	HYDRAULIC MOTOR, (104-1041-006)	2 (OR)
		W/30 HP.ENGINE DRIVE USE (1) OF ITEM 13 & (1) OF ITEM 33	
14	53601	HOSE ASSY, 3/4" X 36" #12JICM X #12JICFS 90°	3
15	53599	HOSE ASSY, 3/4" X 114" #12JICM X 3/4M PIPE	1
16	53598	HOSE ASSY., 3/4" X 34" #12JICM X 3/4M PIPE	1
17	53592	TUBE ASSY. HARDLINE 3/4 O.D. X 138 #12JICFS EA.END	3
		FOR THE MT24 MODEL ONLY, ADD ITEMS 17A AND 17B	
17A	51676	HEX. UNION, (2403-12-12)	3
17B	53606	TUBE ASSY. HARDLINE 3/4 O.D. X 96" #12JICFS EA.END	3
		FOR MT16 & MT24 CONTINUE AS SHOWN	
18	53600	HOSE ASSY., 3/4 X 36" #12JICFS X #12JICM	1
19	444007	ADAPTER,(6400-12-10)	3
20	444008	ADAPTER, (6400-8-10)	4
21	53602	HOSE ASSY., 1/2" X 60" #8JICFS X #8JICFS 90°	2
22	53528	HOSE ASSY., 1/2" X 72" #8JICFS X #8JICFS 90°	2
23	442020	ADAPTER, (2501-8-6)	2
24	28187	RESTRICTOR, (.062R) (5405-6-6R)	2
25	OMITTED	---	-
26	07132	SEE PG. 31&32 HYDRAULIC CYLINDER(LIFT CYL.)	
27	29091	SEE PG. 37 CONTROL VALVE (4 BANK)	1
27A	28882A	DECAL, CONTROL VALVE	1
27B	28904	STOP BRACKET, (VALVE LEVERS)	1
28	21243	PLUG, (6408-10)	1
29	OMITTED	---	
30	306338	PLUG, (6408-12)	1
31	343085A1	HOSE ASSY. 3/4" X 58" #12JICFS 90° EA. END	1
32	445001	ADAPTER, 90° (6801-12)	2
33	39165	HYD. MOTOR, (ENG. DRIVE UNITS ONLY) ref. item 13	1
		W/30 HP. ENGINE DRIVE USE (1) OF ITEM 13 & (1) OF ITEM 33	
34	53949	HOSE ASSY., 3/4 X 42", #12JICFS X #12JICFS 90°	1
35	39254	SEE PG. 33&34 HYDRAULIC CYL. (LWRG. AUGER) SEE PG. 33&34 REPAIR CLEVIS SEE PG. 33&34 CYL. REPAIR KIT	
36	2501-08-08	ELBOW 90° #8 MJIC X #8 MNPT	2
37	2406R-08-08-.062	ADAPTER, #8 MJIC X #8 FJIC	2
		QTY. REQ'D. IS QTY. SHOWN ABOVE	
***	28973	HYDRAULIC HOSE KIT INCLUDES ITEMS 11,14,15,16, 18,21,22,31,AND 34	
***	28973A	HYDRAULIC FITTING KIT INCLUDES ITEMS 7,9,10,12, 19,20,23,24,28,30,32,36 AND 37	

**MT16/MT24 TENDER
BASIC HYDRAULIC SYSTEM FOR**

**MT16/MT24 WITH REAR MOUNTED CONTROLS (DRIVER SIDE)
(COMPLETE HYDRAULIC PLUMBING KIT 29153)**

29153
03/12/24

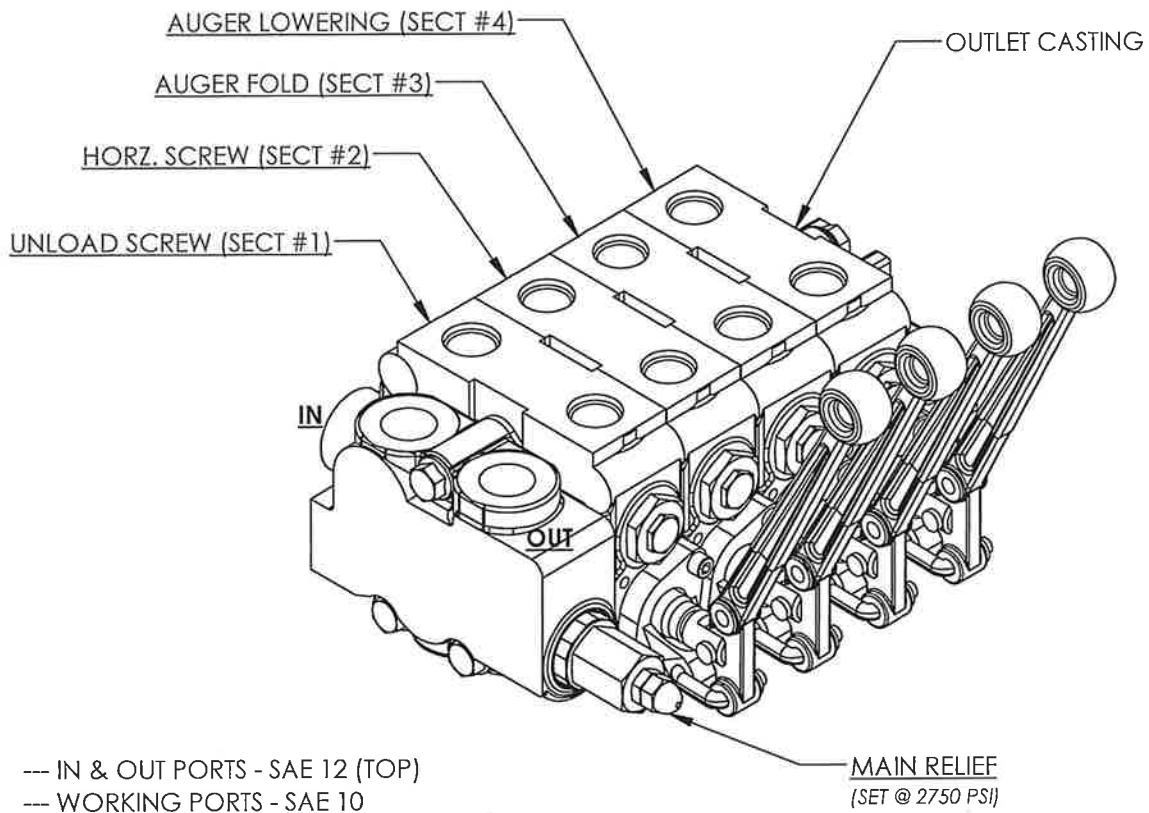


PARTS LIST COMPLETE P.N. 29153
FOR REAR MOUNTED CONTROL VALVE DRIVER SIDE

<u>ITEM</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
		DELETE ITEMS 1 TO 8 WHEN USING "ENGINE DRIVE PACKAGE"	
1	38711	TANK, HYDRAULIC OIL (20 GAL.)	1
2	02153	DIPSTICK	1
3	02006	GATE VALVE, 1 1/4 NPT.	1
4	72368	HOSE BARB, 90° 1 1/4P X 1 1/4H	1
5	72175	OIL TANK PLUG 1/2" NPT	1
6	not included	HOSE, 1 1/4 I.D. X 80 (CUT LENGTH)	1
6A	not included	HOSE CLAMP, 1 1/2 inch	2
7	51933	HEX. PIPE NIPPLE,(5404-16-12)	1
8	01170	FILTER, COMPLETE	1
8A	11128	FILTER ELEMENT ONLY	
9	51682	TEE, 3/4 NPT(M) X 3/4 NPT(F)(2 PL)	1
10	51062	ELBOW, 45° 3/4 NPT(M) X 3/4 NPT(F)	2
11	53558	HOSE ASSY, 3/4" X 24" #12JICF X 3/4M PIPE	1
12	444001	ADAPTER, (6400-12)	4
13	51930	HYDRAULIC MOTOR, (104-1041-006) W/30 HP.ENGINE DRIVE USE (1) OF ITEM 13 & (1) OF ITEM 33	2 (OR)
14	53601	HOSE ASSY, 3/4" X 36" #12JICM X #12JICFS 90°	1
15	53599	HOSE ASSY, 3/4" X 114" #12JICM X 3/4M PIPE	1
16	53598	HOSE ASSY., 3/4" X 34" #12JICM X 3/4M PIPE	1
17	53592	TUBE ASSY. HARDLINE 3/4 O.D. X 138 #12JICFS EA.END	3
		FOR THE MT24 MODEL ONLY, ADD ITEMS 17A AND 17B	
17A	51676	HEX. UNION, (2403-12-12)	3
17B	53606	TUBE ASSY. HARDLINE 3/4 O.D. X 96" #12JICFS EA.END	3
		FOR MT16 & MT24 CONTINUE AS SHOWN	
18	72072	HOSE ASSY., 3/4 X 62" #12JICFS X #12JICM	1
19	444007	ADAPTER,(6400-12-10)	3
20	444008	ADAPTER, (6400-8-10)	4
21	53602	HOSE ASSY., 1/2" X 60" #8JICFS X #8JICFS 90°	2
22	53528	HOSE ASSY., 1/2" X 72" #8JICFS X #8JICFS 90°	2
23	442020	ADAPTER, (2501-8-6)	2
24	28187	RESTRICTOR, (.062R) (5405-6-6R)	2
25	OMMITTED	---	—
26	07132	SEE PG. 31&32 HYDRAULIC CYLINDER(LIFT CYL.)	
27	29091	SEE PG. 37 CONTROL VALVE (4 BANK)	1
27A	28882A	DECAL, CONTROL VALVE	1
27B	28904	STOP BRACKET, (VALVE LEVERS)	1
28	21243	PLUG, (6408-10)	1
29	OMMITTED	---	—
30	306338	PLUG, (6408-12)	1
31	343085A1	HOSE ASSY. 3/4" X 58" #12JICFS 90° EA. END	1
32	445001	ADAPTER, 90° (6801-12)	2
33	39165	HYD. MOTOR, (ENG. DRIVE UNITS ONLY) ref. item 13 W/30 HP. ENGINE DRIVE USE (1) OF ITEM 13 & (1) OF ITEM 33	1
34	72010	HOSE ASSY., 3/4 X 56", #12JICFS X #12JICM	1
35	39254	SEE PG. 33&34 HYDRAULIC CYL. (LWRG. AUGER) SEE PG. 33&34 REPAIR CLEVIS SEE PG. 33&34 CYL. REPAIR KIT	
36	2501-08-08	ELBOW 90° #8 MJIC X #8 MNPT	2
37	2406R-08-08-.062	ADAPTER, #8 MJIC X #8 FJIC	2
38	72009	HYD. HOSE 3/4" X 56" #12 JICM X #12 JICFS 90° 1	
39	72012	HYD. HOSE 3/4" X 62" #12 JICFS 45° X #12 JICM 1	
		QTY. REQ'D. IS QTY. SHOWN ABOVE	
***	72008	HYDRAULIC HOSE KIT INCLUDES ITEMS 11, 14, 15, 16, 18, 21, 22, 31, 34, 38 &39	
***	28973A	HYDRAULIC FITTING KIT INCLUDES ITEMS 7, 9, 10, 12, 19, 20, 23, 24, 28, 30, 32, 36 & 37	

VALVE - (4-BANK)

COMPLETE P/N: 29091



--- IN & OUT PORTS - SAE 12 (TOP)
--- WORKING PORTS - SAE 10

--- SECT #1 -- 4-WAY 3-POSITION DETENT (SERIES)
--- SECT #2 -- 4-WAY 3-POSITION DETENT (SERIES)
--- SECT #3 -- 4-WAY (TANDEM) -.053" RESRICTOR (WORK PORT)
--- SECT #4 -- 4-WAY (TANDEM) -.053" RESRICTOR (WORK PORT)
- W/ LOCKOUT FEATURE

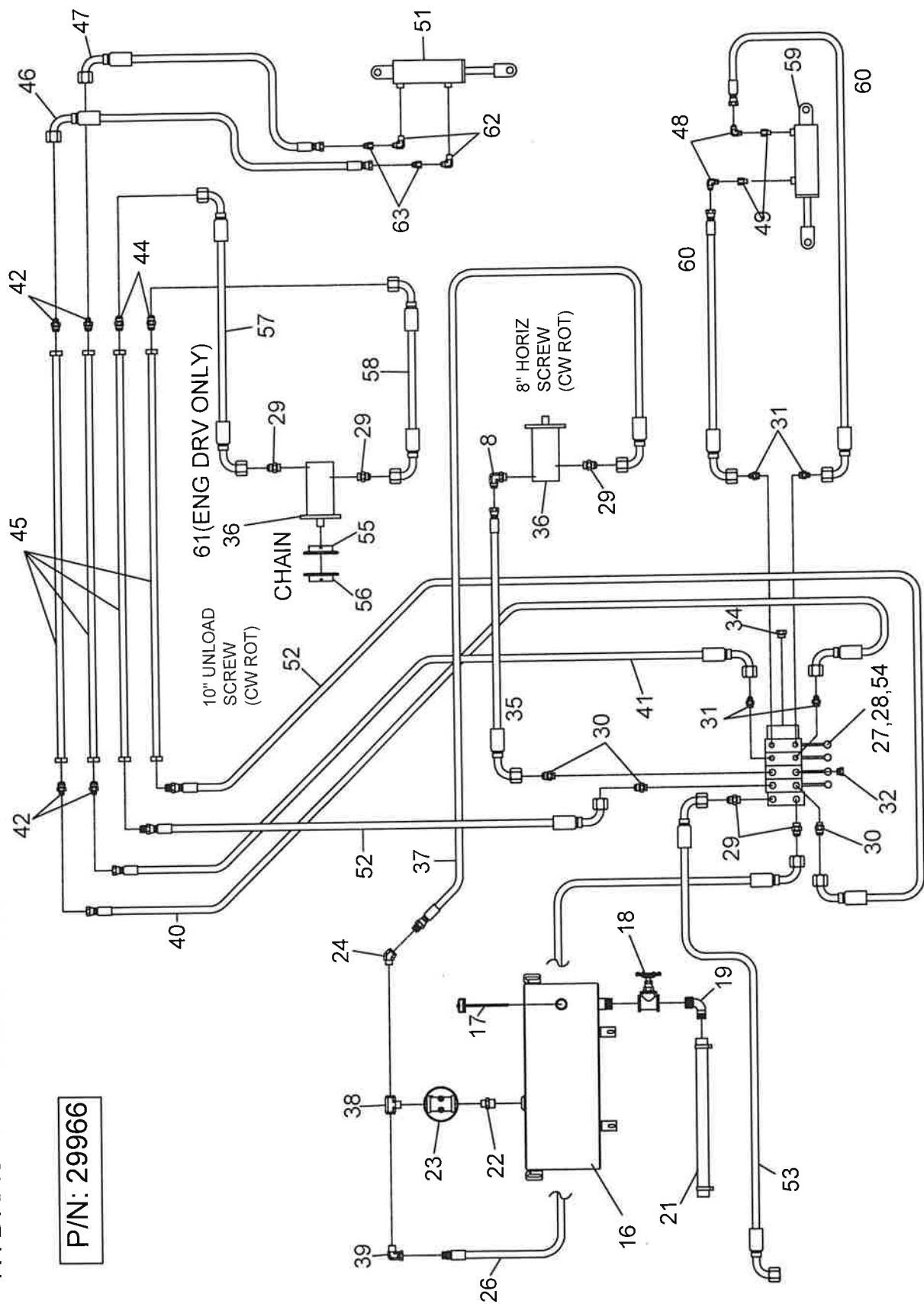
REF.	PART NO.	QTY	DESCRIPTION
	98344	1	SEAL KIT (1-SPOOL & SECTION)
	98345	1	SEAL KIT (1-SPOOL)
	98346	1	SEAL KIT (1-SECTION)
	98347	1	SEAL KIT (RELIEF VALVE)
	98348	1	RELIEF VALVE COMPLETE -- 2750 PSI
	98349	1	HANDLE KIT - W/ BRACKETS W/ LINK & PIN
	98350	1	HANDLE ONLY
	98351	1	BRACKET ONLY
	98352	1	LINK KIT - W/ PINS
	98561	1	VALVE SECTION COMPLETE - SECT #3 & #4
	98898	1	CLEVIS ASSY (SPOOL) - SECT #1 & #2
	306743		SPRING - RELIEF (2750 PSI)
	06782047		OUTLET CASTING

MT 16 Series Tender

37A

HYDRAULIC PLUMBING PKG. W/ FRONT MOUNT CONTROL VALVE (COMPLETE SYSTEM)

P/N: 29966



MT16 HYDRAULIC PLUMBING PARTS LIST
 WITH FRONT MOUNT CONTROL VALVE
 COMPLETE P.N. 29966

MT29966LST
 03/03/23

ITEM	PART NO.	DESCRIPTION	QTY
8	445001	ADAPTER, 90° (6801-12)	1
16	38711	TANK, HYDRAULIC OIL (20 GAL.)	1
17	02153	DIPSTICK	1
18	02006	GATE VALVE, 1 1/4 NPT.	1
19	72368	HOSE BARB, 90° 1 1/4 NPT X 1 1/4 HOSE	1
20	---	---	
21	51157(BULK)	HOSE, 1 1/4 I.D. X 24 (CUT LENGTH)	1
	75990	HOSE CLAMP,	2
22	51933	HEX. PIPE NIPPLE, (5404-16-12)	1
23	01170	FILTER, COMPLETE	1
	11128	FILTER ELEMENT ONLY	
24	51062	ELBOW, 45° 3/4 NPT(M) X 3/4 NPT(F)	1
25	---	---	
26	53774	HOSE ASSY., 3/4 X 78"	1
27	SEE PG. 37	CONTROL VALVE (4 BANK)	1
	28882A	DECAL, CONTROL VALVE	1
	28904	STOP BRACKET, (VALVE LEVERS)	1
29	444001	ADAPTER, (6400-12)	5
30	444007	ADAPTER, (6400-12-10)	3
31	444008	ADAPTER, (6400-8-10)	4
32	21243	PLUG, (6408-10)	1
33	---	---	
34	306338	PLUG, (6408-12)	1
35	53563	HOSE ASSY., 3/4 X 54"	1
36	51930	HYDRAULIC MOTOR, (104-1041-006)	2
	WITH ENG DRIVE UNIT USE (1) AND ITEM 61		
37	53558	HOSE ASSY., 3/4 X 24"	1
38	51682	TEE, 3/4 NPT(M) X 3/4 NPT(F)(2 PL)	1
39	51057	ADAPTER, 90° (1501-12-12)	1
40	53528	HOSE ASSY., 1/2 X 70"	1
41	53602	HOSE ASSY., 1/2 X 60"	1
42	53727	UNION, (2403-12-8)	4
43	---	---	
44	51676	UNION, (2403-12-12)	2
45	53592	TUBE ASSY., 3/4 O.D. X 138,	4
46	53728	HOSE ASSY., 1/2 X 56", 3/4(F) EA. END	1
47	53046	HOSE ASSY., 1/2 X 48", 3/4(F) EA. END	1
48	442020	ADAPTER, 90° (2501-8-6)	2
49	28187	RESTRICTOR, (5405-6-6 R.062)	2
50	---	---	
51	SEE PG. 31/32	HYDRAULIC CYLINDER (UNLOAD AUGER)	1
52	53597	HOSE ASSY., 3/4 X 76"	2
53	53556	HOSE ASSY., 3/4 X 58"	1
54	29928	VALVE MOUNT	1
55	10183	SPROCKET, 50B24-1" BORE	1
56	31407	SPROCKET, 50B24-1 1/4 BORE	1
57	53949	HOSE ASSY., 3/4 X 42"	1
58	343085A1	HOSE ASSY., 3/4 X 58"	1
59	39249	REF. DWG. RE. LWRG. AUGER ASSEMBLY	
	SEE PG. 33/34	HYDRAULIC CYLINDER (LWRG. AUGER)	
	SEE PG. 33/34	REPAIR CLEVIS	
	SEE PG. 33/34	CYL. REPAIR KIT	
60	53602	HOSE ASSY., 1/2 X 60"	2
61	39165	HYD. MOTOR, (ENG. DRIVE UNITS ONLY)	1
62	2501-08-08	ELBOW 90°, #8 MJIC X #8 MNPT	2
63	2406R-08-08-.062	ADAPTER, #8 MJIC X #8 FJIC	2

ENGINE DRIVE PACKAGE # 33570

MT16E&TMNT
REV.
04-21-15

**MT16 AND MT24 TENDER
WITH 30 HP KOHLER ENGINE
REFERENCE ILLUSTRATION # 29152 (ON PAGE
BASIC "HYDRAULIC PLUMBING ILLUSTRATION"
ADD TO BASIC SYSTEM FOR REAR
MOUNTED CONTROL VALVE**

REFERENCE ILLUSTRATION # 29152 (ON PAGES 35 & 36)

**BASIC "HYDRAULIC PLUMBING ILLUSTRATION"
ADD TO BASIC SYSTEM FOR REAR
MOUNTED CONTROL VALVE**

MT16 AND ENGINE DRIVE PACKAGE COMPLETE

MT24 FOR REAR VALVE MOUNT

30 HP ENGINE PKG # 33570

MT16E&TMNTLST
REV 04-21-15

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	CH750-0003	ENGINE, KOHLER, 30 HP.	1	31	11128	FILTER ELEMENT ONLY	1
2	24-78611	MAFFLER PACKAGE	1	32	2404-12-12	ADAPTER, 3/4" M PIPE X #12JCFC	1
3	18051628	BOLT, 3/8-16 X 1 3/4 GR 5	ZC 4	33	632144	HOSE ASSY., 3/4" X 144"	2
4	18811200	FLATWASHER, 3/8	ZC 8	34	6506-12-12	ADAPTER, 3/4FM PIPE X #12JCFC	1
5	18457800	NUT, CENTERLOCK, 3/8-16	ZC 4	35	01353	BATTERY BOX, POLYETHYLENE	1
6	52295	ADAPTER, ENGINE TO PUMP	ZC 4	36	18706421	BOLT, 5/16-18NC. X 3/4	SS 4
7	18054123	BOLT, 7/16-18 X 1 1/4	ZC 4	37	18991110	LOCK WASHER, 5/16	SS 4
8	18891300	LOCKWASHER, 7/16	ZC 4	38	18991100	FLAT WASHER, 5/16	SS 4
9	2-1711	DRIVE KEY, 3/8 SQ. X 2	1	39	18987700	FLANGE NUT, 5/16-18NC.	SS 4
10	52245	COUPLER HALF, 1.43 BORE, W/ 3/8 KEY	1	40	148505	BATTERY CABLE, (POS) RED 48 INCH	1
11	52294MOD	COUPLER HALF, MOD .625 BORE, 5/32 KWY	1	41	01351	BATTERY CABLE, (NEG) BLK 38 INCH	1
12	53536	SPIDER COUPLER, HYTREL RBBR.	1	42	47009519	J-BOLT, 5/16-18NC x 3 1/2	1
13	52243	HYD. PUMP, 2-BOLT, W/KEY	1	43	18496400	FLANGE NUT, 5/16	1
14	445001	ADAPTER, 90° (6801-12)	1	44	18406400	HEX. NUT, 5/16-18NC.	1
15	18056820	BOLT, 3/8-16 X 1	ZC 2	45	1105172	HOLD-DOWN STRAP	1
16	18811200	FLATWASHER, 3/8	ZC 2	46	2575535	GASOLINE TANK (POLYETHYLENE)	1
16A	18891200	LOCKWASHER, 3/8	ZC 2	47	SEE LOCAL HARDWARE STORE		
17	4604-20-16	ADAPTER,	1	48	53433	HOSE BARB, (4244-4-4)	1
18	12003490	HOSE, 1 1/4 I.D. X 15 1/2	1	49	H175	FUEL LINE, HOSE 1/4 I.D. X 36"	1
19	200256	HOSE CLAMP, FOR 1 1/4 HOSE	2	50	53431	FUEL FILTER, IN-LINE	1
20	72368	ELBOW/HOSEBARB, X 90 DEG., 1 1/4	1	51	200244	HOSE CLAMP, (7/16 - 1")	4
21	02006	GATE VALVE, 1 1/4 NPT.	1	52	28991	FRAME, ENGINE & TANK MOUNT	1
22	38711	HYDRAULIC OIL TANK (STEEL)	1	53	18057434	BOLT, 1/2-13NC. X 1 1/2	4
23	02153	CAP/DIPSTICK	1	54	18811400	FLAT WASHER, 1/2	4
24	72175	OIL TANK PLUG 1/2" NPT	1	55	18891400	LOCK WASHER, 1/2	4
25	18056824	BOLT, 3/8-16NC. X 1 1/4	ZC 4	56	184117400	HEX. NUT, 1/2-13NC.	4
26	18811200	FLAT WASHER, 3/8	ZC 4	57	39165	HYDRAULIC MOTOR	4
27	OMITTED						1
28	18496800	FLANGENUT, 3/8-18NC.	ZC 4		51682	TEE, 3/4 PIPE, (2)F X (1)M	1
29	51933	HEX. PIPE NIPPLE, (5404-16-12)	ZC 1		REF. ONLY, PART OF BASIC HYDRAULIC SYSTEM		
30	01170	FILTER COMPLETE	1				



41A

MT16 AND MT24 ENGINE DRIVE RETROFIT PACKAGE

MT16E&TRTR
04-21-15

FOR REAR VALVE MOUNT
KOHLER 30 HP ENGINE-PKG. #335570RET

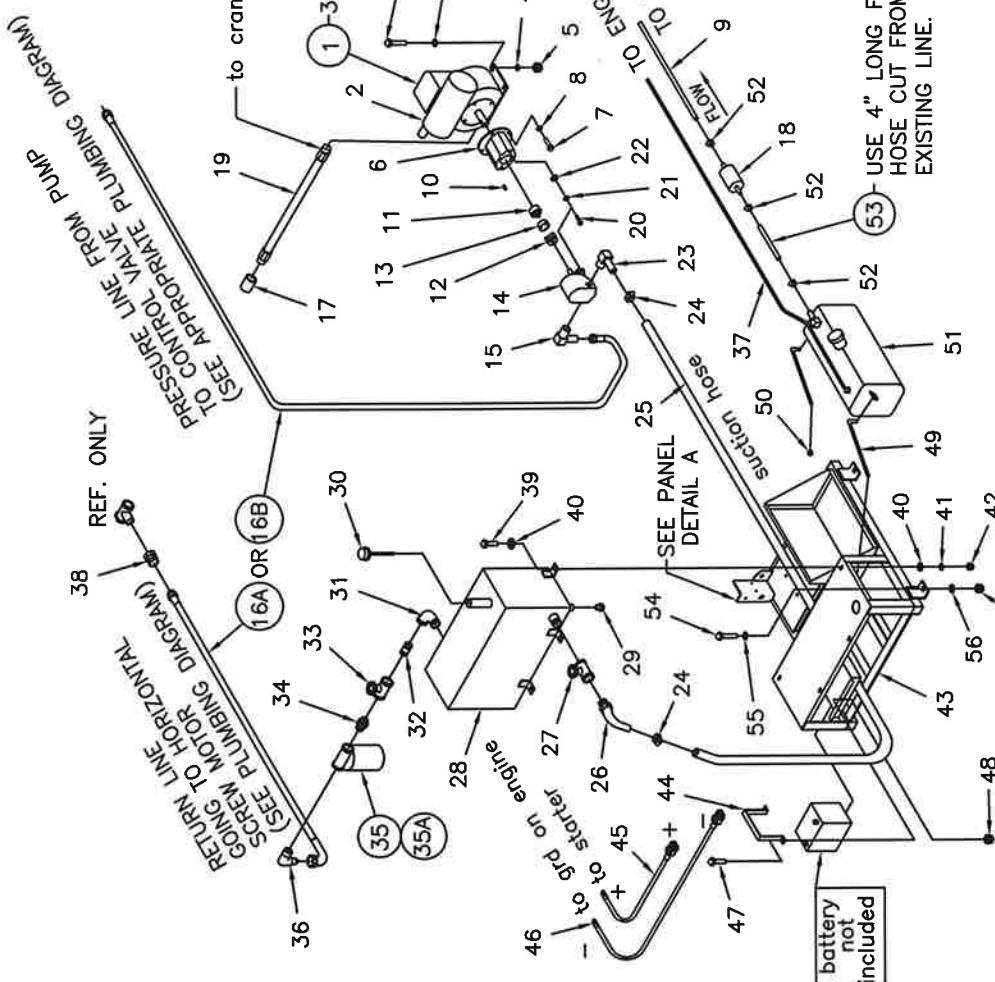
WARNING! FOR SAFETY, HYD CONTROLS MUST BE MOUNTED A
MINIMUM OF 7 FT FROM THE AUGER FOLD!

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	CH750-0003	ENGINE, KOHLER, 30 HP.	1	30	01170	FILTER COMPLETE	1
2	24-78611	MUFFLER PACKAGE	1	31	11128	FILTER ELEMENT ONLY	1
3	18051628	BOLT, 3/8-16 X 1 3/4 GR5	ZC 4	32	2404-16-12	ADAPTER, 3/4 M PIPE X #12JIC	1
4	18811200	FLATWASHER, 3/8	ZC 8	33	632144	HOSE ASSY., 3/4 X 144"	2
5	18457800	NUT, CENTERLOCK, 3/8-16	ZC 4				
6	52295	ADAPTER, ENGINE TO PUMP	1	34	6506-12-12	ADAPTER, 3/4FM PIPE X #12JICFS	1
7	18054123	BOLT, 7/16-18 X 1 1/4	ZC 2	35	01353	BATTERY BOX, POLYETHYLENE	1
8	18811300	FLATWASHER, 7/16	ZC 2	36	18706421	BOLT, 5/16-18NC. X 3/4	SS 4
9	2-1711	DRIVE KEY, 3/8 SQ. X 2	1	37	18991110	LOCK WASHER, 5/16	SS 4
10	52245	COUPLER HALF, 1.43 BORE, 3/8 KEY	1	38	18991100	FLAT WASHER, 5/16	SS 4
11	52294MOD	COUPLER HALF, MOD. .625 BORE, 5/32 KEY	1	39	18987700	FLANGE NUT, 5/16-18NC.	SS 4
12	53536	SPIDER COUPLER, HYTREL RBBR.	1	40	148505	BATTERY CABLE, (POS) RED 48 INCH	1
13	52243	HYD. PUMP, 2-BOLT, W/KEY	1	41	01351	BATTERY CABLE, (NEG) BLK. 38 INCH	1
14	445001	ADAPTER, 90° (6801-12)	1	42	47009519	J-BOLT, 5/16-18NC.	1
15	18056820	BOLT, 3/8-16 X 1	ZC 2	43	18496400	FLANGE NUT, 5/16	1
16	18811200	FLATWASHER, 3/8	ZC 2	44	18406400	HEX. NUT, 5/16-18NC.	1
16A	18891200	LOCKWASHER, 3/8	ZC 2	45	11051172	HOLD-DOWN STRAP	1
17	REUSE EXISTING PARTS	ADAPTER, HOSE, 1 1/4 I.D. X 15 1/2"	1	46	2575535	GASOLINE TANK (POLYETHYLENE)	1
18		HOSE CLAMP, FOR 1 1/4 HOSE	1	47	FILLER CAP, SEE LOCAL HARDWARE STORE		
19		ELBOW/HOSEBARS, X 90 DEG., 1 1/4	2	48	53433	HOSE BARB, (4244-4-4)	1
20		GATE VALVE, 1 1/4 NPT.	1	49	H175	FUEL LINE, HOSE, 1/4 I.D. X 36"	1
21		HYDRAULIC OIL TANK (STEEL)	1	50	53431	FUEL FILTER, IN-LINE	1
22		CAP/DIPSTICK	1	51	200244	HOSE CLAMP, (7/16 - 1")	4
23		OIL TANK PLUG 1/2" NPT	1	52	28991	FRAME, ENGINE & TANK MOUNT	1
24		BOLT, 3/8-16NC. X 1 1/4	ZC 4	53	18057434	BOLT, 1/2-13NC. X 1 1/2	4
25	18056824	FLAT WASHER, 3/8	ZC 4	54	18811400	FLAT WASHER, 1/2	4
26	18811200	HEX. NUT, 3/8-18NC.	1	55	18891400	LOCK WASHER, 1/2	4
27	OMITTED	HEX. PIPE NIPPLE, (5404-16-12)	1	56	18417400	HEX. NUT, 1/2-13NC.	4
28	18436800			57	39165	HYDRAULIC MOTOR	1
29	51933				51682	TEE, 3/4 PIPE, (2)F X (1)M	
						REF. ONLY, PART OF BASIC HYDRAULIC SYSTEM	

ENGINE DRIVE PACKAGE #33577

MT1624ENGPKG
12-1-20

MT16 AND MT24 TENDER
WITH 38 HP KOHLER ENGINE
REFERENCE ILLUSTRATION # 29152
BASIC "HYDRAULIC PLUMBING ILLUSTRATION"
FOR REAR MOUNT CONTROL VALVE



DETAIL A

MOUNTING HARDWARE, items 54 thru 57

MT16 AND MT24
ENGINE DRIVE PACKAGE COMPLETE

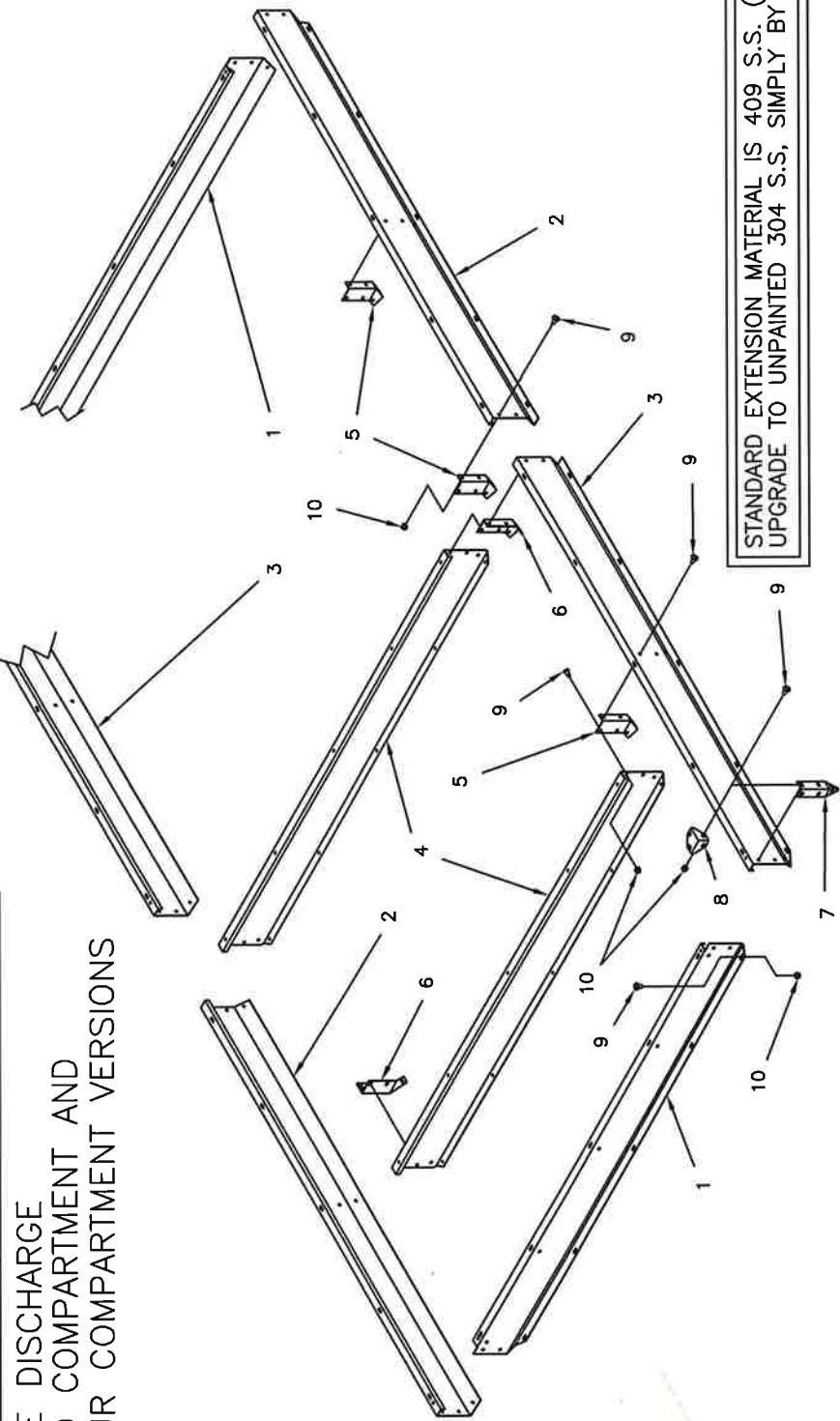
MT1624ENGPKGSLT
 12-1-20

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	ECH980-3001	ENGINE, KOHLER, 38 HP.	1	32	722280	CLOSE NIPPLE, 1" NPT	1
1A	62-376-02	ENG MT CONTROLS (INCLUDED W ENGINE)	1	33	21372	GATE VALVE, 1" NPT	1
2	6278614	MUFFLER STARTER SIDE 38 HP	1	34	51933	HEX PIPE NIPPLE, (5404-16-12)	1
3	18051628	BOLT, 3/8-16 X 1 3/4 GR 5	1	35	01170	FILTER, COMPLETE WITH ELEMENT	1
4	18811200	FLATWASHER, 3/8	4	35A	11128	FILTER ELEMENT ONLY	1
5	18457800	NUT, CENTERLOCK, 3/8-16	4	36	2501-12-12	ELBOW 90°, 3/4" M PIPE X #12JIC	1
6	52295	ADAPTER, ENGINE TO PUMP	1	37	H176	FUEL LINE HOSE, 3/16 ID X 20" LONG	1
7	18054123	BOLT, 7/16-18 X 1 1/4	4	38	6506-12-12	ADAPTER, 3/4FM PIPE X #12JICFS	1
8	18891300	LOCKWASHER, 7/16	4	39	18056824	BOLT, HEX HD 3/8-16NC X 1 1/4 ZC	4
9	H175	FUEL LINE, HOSE 1/4 I.D. X 36"	1	40	18811200	FLATWASHER, 3/8	8
10	2-1711	DRIVE KEY, 3/8 SQ. X 2	1	41	18891200	LOCKWASHER, 3/8	4
11	52245	COUPLER HALF, 1.43 BORE, W/ 3/8 KEY	1	42	18436800	NUT, HEX 3/8-16NC ZC	4
12	52294MOD	COUPLER HALF, MOD .625 BORE, 5/32 KRY	1	43	470159563	ENGINE SKID WELDMENT	1
13	53536	SPIDER COUPLER, HYTREL RBBR.	1	44	470159563	BATTERY RETAINER STRAP	1
14	52243	HYD. PUMP, 2-BOLT, W/KEY	1	45	148505	BATTERY CABLE, (POS) RED 20 INCH	1
15	445001	ADAPTER, 90° (6801-12)	1	46	01351	BATTERY CABLE, (NEG) BLK. 38 INCH	1
16A	632144	HOSE ASSY.(REAR CONTROL VALVE UNITS ONLY)	2	47	18056830	BOLT, 3/8-16 NC X 2 LONG ZC	2
OR		HOSE ASSY.(FRONT CONTROL VALVE UNITS ONLY)	2	48	18496800	FLANGENUT, 3/8-16 NC ZC	2
16B	53138	HOSE ASSY.	1	49	730-2382	HOLD DOWN J-BOLT (NAPA 730-2382)	2
				50	18457650	LOCKNUT 1/2-13 NYLOCK ZC	2
				51	FL071021AE	GASOLINE TANK (POLYETHYLENE) 8 GAL	1
					replacement	FILLER CAP, SEE LOCAL HARDWARE STORE	1
17	304-C-6	HOSE CAP, JIC #6	1	52	200244	HOSE CLAMP, (7/16 - 1")	4
18	53431	FUEL FILTER, IN-LINE	1	53	H175	FUEL LINE HOSE, 1/4 ID X 4" LONG	1
19	609020	HOSE, CRANKCASE DRAIN 3/8" X 20"	1	54	18057434	BOLT, HEX 1/2-13NC X 1 1/2 GR5	4
20	18056822	BOLT, 3/8 X 1 GR5	2	55	18811400	FLATWASHER, 1/2" ZC	4
21	18891200	LOCKWASHER, 3/8	2	56	18891400	LOCKWASHER, 1/2" ZC	4
22	18811200	FLATWASHER,	2	57	18417400	HEX NUT, 1/2-13NC ZC	4
23	4601-20-16	ADAPTER, ELBOW 90° HOSE TO O-RING	1				-
24	200256	HOSE CLAMP, FOR 1 1/4" HOSE	2	58	2517602	WIRING HARNESS FOR 38HP ENGINE	1
25	12003490	HOSE, 1 1/4 I.D. X 30 INCHES LONG	1	59	2509932-M	IGNITION SWITCH 38 HP	1
26	72368	HOSEBARB, 90° 1 1/4 NPT X 1 1/4 HS	1	60	ST290115	THROTTLE CONTROL ASSY FOR 37HP	1
27	02006	GATE VALVE, 1 1/4 NPT.	1	61	18025715	BOLT, HEX HEAD #10-24 X 3/4 SS	2
28	38711	HYDRAULIC OIL TANK (STEEL)	1	62	18987800	FLANGENUT, #10-24 SS	2
29	72175	OIL TANK PLUG 1/2" NPT	1	63	-	-	-
30	02153	CAP/DIPSTICK	1	64	-	-	-
31	72306	STREET ELBOW, 90° 1" NPT	1				
					47070533	OPTIONAL FENDER MOUNT KIT	
						(contains items 65-67)	
6217628		ALSO INCLUDED BUT NOT SHOWN				IGNITION SWITCH	
		JUMPER WIRE HARNESS 38 HP	1			FENDER MT BRKT	1
						BOLT, HEX HD 1/2-13 X 1 1/4 ZP	2
						FLANGENUT, 1/2-13 ZP	

44A

TENDER BOX EXTENSIONS (16 TON) UP TO 2021

SIDE DISCHARGE
TWO COMPARTMENT AND
FOUR COMPARTMENT VERSIONS



451

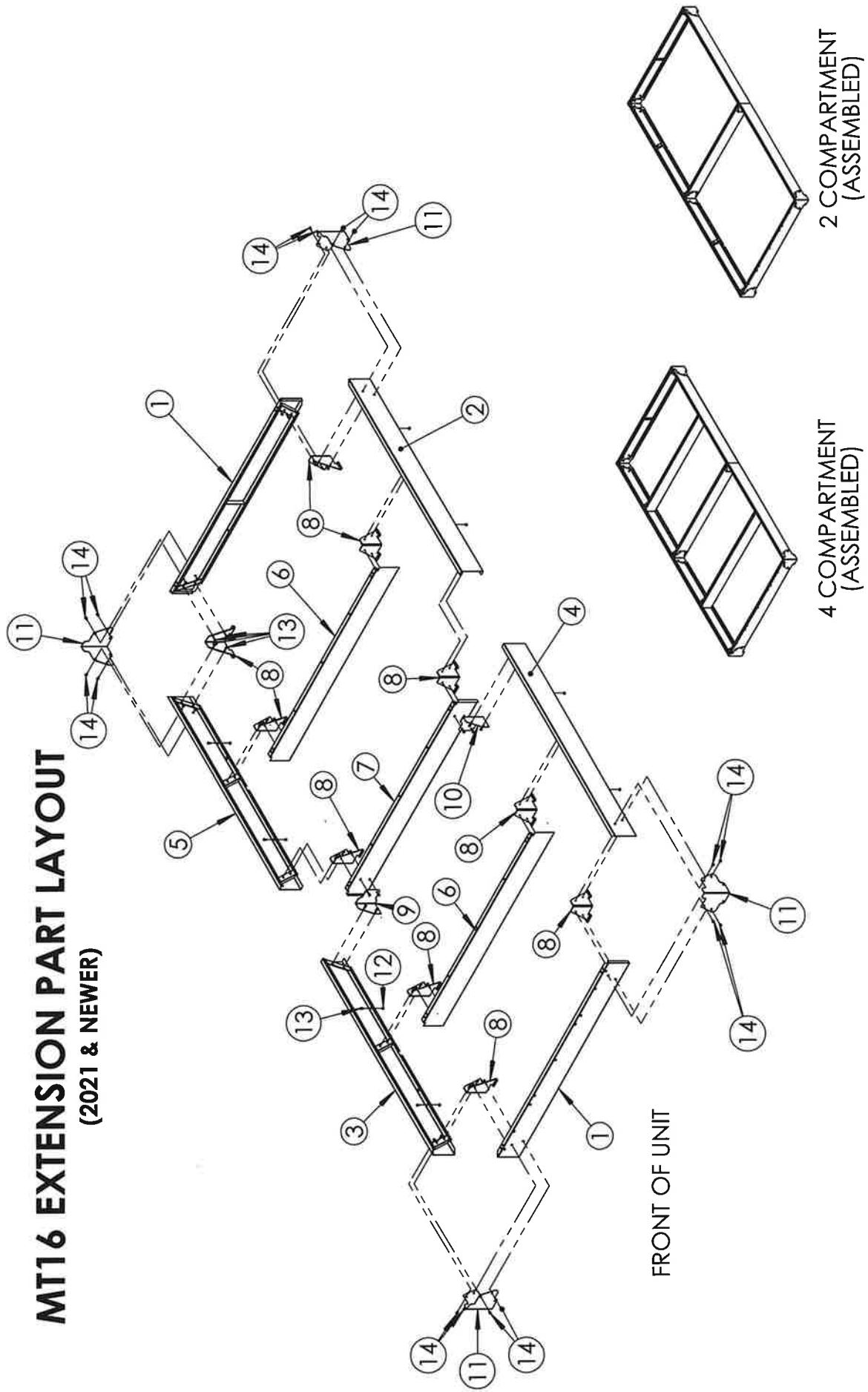
TWO COMPARTMENT EXTENSIONS

ITEM	409 S.S. PART NO.	304 S.S. PART NO.	DESCRIPTION	QTY
1	47989127	47989127S	EXTENSION PKG. COMPLETE (2 COMP.)	2
2	47019078	47019078S	END PANEL	1
2	47009128	47009128S	SIDE PANEL, L.H.	2
3	47019128	47019128S	SIDE PANEL, R.H.	2
4	47009079	47009079S	CROSS PANEL, (2 COMPARTMENT)	1
5	47019080	47019080S	JOINT ANGLE, L.H.	2
6	47029080	47029080S	JOINT ANGLE, R.H.	2
7	47019081	47019081S	CORNER ANGLE	4
8	47019130	47019130S	CORNER CAP WITH OUT TOP COVER	4
			WITH FLIP-TOP	2
			WITH ROLL-TOP	0
9	18706621	18706621	BOLT, TRUSS HD. 3/8-16NC. X 3/4	2
10	18496800	18496800	FLANGE NUT, 3/8-16NC.	85

FOUR COMPARTMENT EXTENSIONS

ITEM	409 S.S. PART NO.	304 S.S. PART NO.	DESCRIPTION	QTY
1	47999128	47999128	EXTENSION PKG. COMPLETE (4 COMP.)	2
2	47019078S	47019078S	END PANEL	2
2	47009128S	47009128S	SIDE PANEL, L.H.	2
3	47019128S	47019128S	SIDE PANEL, R.H.	2
4	47009079S	47009079S	CROSS PANEL, 4 COMPARTMENT	3
5	47019080S	47019080S	JOINT ANGLE, L.H.	4
6	47029080S	47029080S	JOINT ANGLE, R.H.	4
7	47019081S	47019081S	CORNER ANGLE	4
8	47019130S	47019130S	CORNER CAP WITH OUT TOP COVER	4
			WITH FLIP-TOP	2
			WITH ROLL-TOP	0
9	18706621	18706621	BOLT, TRUSS HD. 3/8-16NC. X 3/4	85
10	18496800	18496800	FLANGE NUT, 3/8-16NC.	119

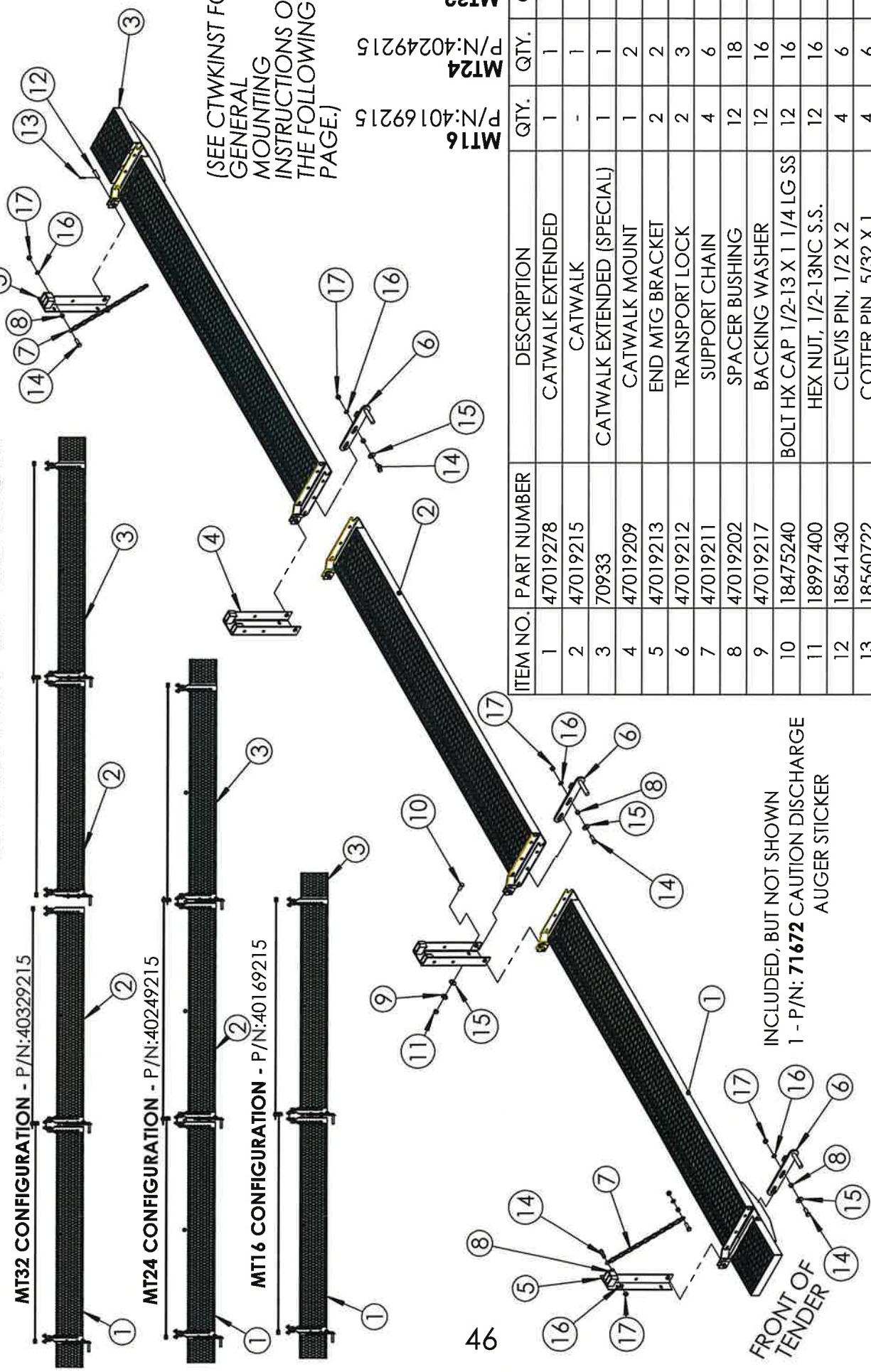
**MT16 EXTENSION PART LAYOUT
(2021 & NEWER)**



MT16 EXTENSION PARTS LIST (2021 AND NEWER)

ITEM #	DESCRIPTION	MATERIAL	PART #	2 COMPARTMENT		4 COMPARTMENT	
				P/N: 71282 (409 MATERIAL)	P/N: 71117 (304 MATERIAL)	P/N: 71281 (409 MATERIAL)	P/N: 71116 (304 MATERIAL)
1	EXT. PANEL (END)	304	71056	-	2	-	2
		409	71253	2	-	2	-
2	EXT. PANEL (DRIVER REAR)	304	71061	-	1	-	1
		409	71258	1	-	1	-
3	EXT. PANEL (PASSENGER FRONT)	304	71063	-	1	-	1
		409	71260	1	-	1	-
4	EXT. PANEL (DRIVER FRONT)	304	71065	-	1	-	1
		409	71262	1	-	1	-
5	EXT. PANEL (PASSENGER REAR)	304	71067	-	1	-	1
		409	71264	1	-	1	-
6	EXT. PANEL (DIVIDER SECTION)	304	71071	-	-	-	2
		409	71268	-	-	2	-
7	EXT. PANEL (MIDDLE SECTION)	304	71073	-	1	-	1
		409	71270	1	-	1	-
8	CORNER LOCK	304	71077	-	6	-	10
		409	71274	6	-	10	-
9	JOINT LOCK #1	304	71078	-	1	-	1
		409	71275	1	-	1	-
10	JOINT LOCK #2	304	71079	-	1	-	1
		409	71276	1	-	1	-
11	EXTERIOR CORNER	304	71104	-	4	-	4
		409	71278	4	-	4	-
12	NUT SER FLG 3/8	SS	18987900	56	56	72	72
13	BOLT , HX CAP 3/8-16 X 3/4 LG	SS	18026820	40	40	56	56
14	SCREW SLOTTED TRUSS HEAD 3/8 X 3/4 LG	SS	18706621	16	16	16	16

CATWALK ILLUSTRATION



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	QTY.	QTY.
1	47019278	CATWALK EXTENDED	1	1	1
2	47019215	CATWALK	-	1	2
3	70933	CATWALK EXTENDED (SPECIAL)	1	1	1
4	47019209	CATWALK MOUNT	1	2	2
5	47019213	END MTG BRACKET	2	2	4
6	47019212	TRANSPORT LOCK	2	3	4
7	47019211	SUPPORT CHAIN	4	6	8
8	47019202	SPACER BUSHING	12	18	24
9	47019217	BACKING WASHER	12	16	24
10	18475240	BOLT HX CAP 1/2-13 X 1 1/4 LG SS	12	16	24
11	18997400	HEX NUT, 1/2-13NC S.S.	12	16	24
12	18541430	CLEVIS PIN, 1/2 X 2	4	6	8
13	18560722	COTTER PIN, 5/32 X 1	4	6	8
14	18057426	BOLT, HX CAP 1/2-13 X 1 1/2 LG	12	18	24
15	18811400	WASHER, FLAT 1/2 ZC USS	8	14	16
16	18891400	WASHER, 1/2 LOCK ZC	12	18	24
17	18417400	NUT, HX 1/2 NC ZC	12	18	24

ALSO INCLUDED, BUT NOT SHOWN (SEE CATWALK SAFETY HARNESS PAGE)
CATWALK BOLT ON SAFETY BAR KIT (BASED ON TENDER)

INCLUDED, BUT NOT SHOWN
1 - P/N: 71672 CAUTION DISCHARGE
AUGER STICKER

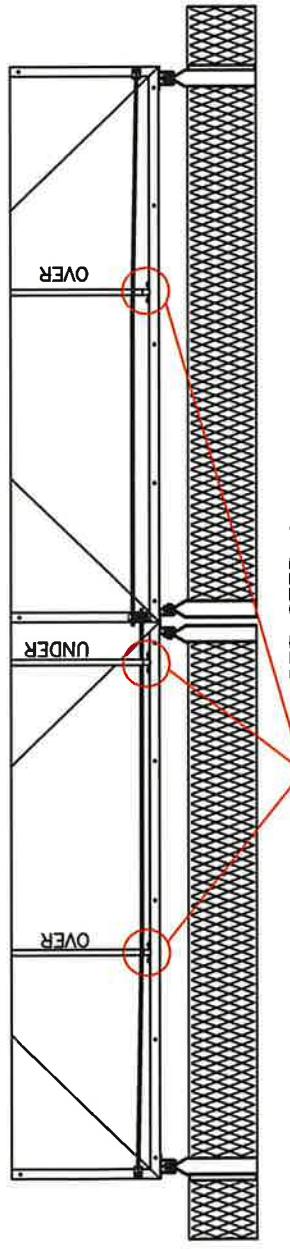
CATWALK MOUNTING INSTRUCTIONS FOR

16 TON AND 24 TON TENDER BOX

- 1: Mount the catwalk on the left hand (driver side) of the tender box.
- 2: Position (1) end mounting bracket (item 5) so that the edge of the bracket is flush with the front edge of the box and so that the top set of holes are 10 inches (19" with extensions) from the top flange of the box. Using the bracket as a template, mark all 4 holes.
- 3: Repeat step 2 at the back edge of the box. Front and rear mounted brackets must be level with each other.
- 4: For the center bracket (item 4) To the center of the next bracket should be approximately 93 13/32 to 94 inches apart. Measure 94 inches from the center of the bracket nearest the edge of the box and mark this position. Measure 10 inches down from the top of the box (19" with extensions) and mark the center for the hole. Use the center bracket as a template and mark all 4 holes. Each mounting bracket (items 4 & 5) requires a 2 1/2 x 11 inch hole pattern.)
- 5: Mark hole pattern centers at 2 1/2 inches on ends and 90 29/32 apart. Inside hole centers should be 90 29/32 apart. Drill 17/32 diameter holes. Twelve for a 16 ton tender, sixteen for a 24 ton tender.
- 6: Mount each end bracket (item 5) with (4) bolts (item 10) and (4) nuts (item 11). When mounting the center brackets (item 4) position (4) flat washers (item 15) between the bracket and the outside of the box. Use (4) backing washers (item 9) on the inside of the box and mount with the bolts (item 10) and nuts (item 11). Install the above hardware finger-tight at this time.
- 7: Position the catwalk (item 1) to the front bracket and the center bracket on the box and mount with (2) clevis pins (item 12) and (2) cotter pins (item 13).
- 8: Position the catwalk (item 2 OR 3) to the center and rear bracket and mount with the clevis pins (item 12) and cotter pins (item 13). For a 24 ton tender mount three catwalks per steps 7 and 8.
- 9: You may securely fasten the brackets at this time.
- 10: Assemble a transport lock (item 6) to the first channel of each catwalk section. If the access ladder is on the front of the box this would be the front channel. If the ladder is on the back this would be the rear channel. The transport lock should be located on the outside of the leg of the channel and the handle should be pointing towards the ladder. Position the bushing (item 8) in the slots in the transport lock and position the hardware so that the head of the bolt (item 14) and the flat washer (item 15) are next to the transport lock and the lock washer (item 16) and the nut (item 17) are next to the channel on the catwalk. Securely tighten the hardware.
- 11: Assemble the support chains (item 7) to the catwalk and the brackets with the spacers (item 8) and bolts (item 14) and lockwashers (item 16) and nuts (item 17). Test fold and unfold the catwalks to insure proper function.
- 12: CAUTION !!! Make sure the catwalk is locked up into the transport position before moving the discharge auger. MOVING THE DISCHARGE AUGER WITH THE CATWALKS DOWN MAY CAUSE AUGER TO INTERFERE WITH CATWALKS.

CATWALK PLATFORM BOLT ON SAFETY INSTRUCTIONS (MT16)

FIG.1



FOR UNITS EQUIPPED WITH HEARTLAND AG SYSTEMS ARCH DIVIDERS, STEP 1 IS NOT REQUIRED

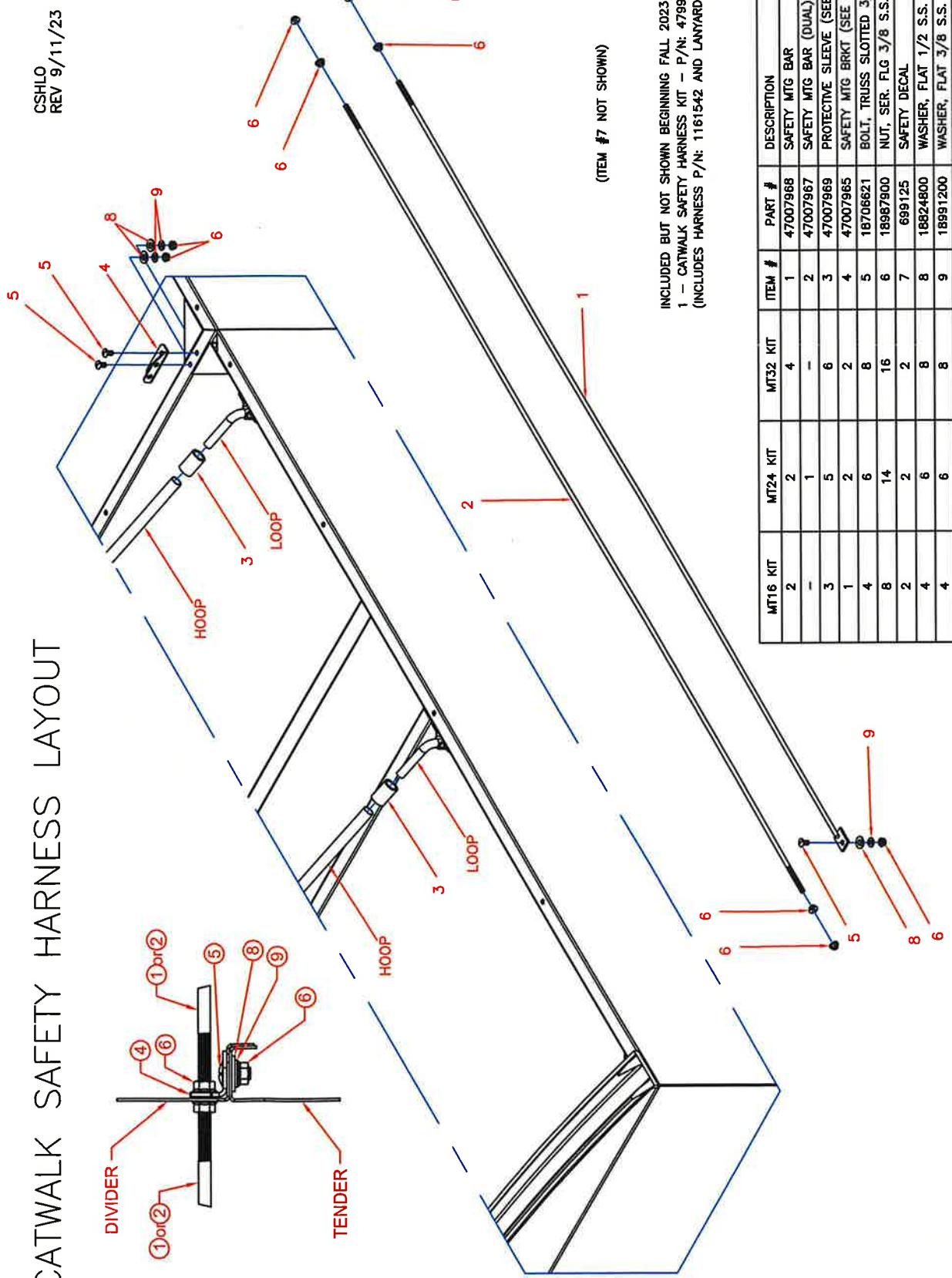
1. APPLY PROTECTIVE SLEEVES, (P/N: 47007969) TO THE BASE OF COVER SUPPORT HOOPS, AS SHOWN IN FIG. 1.
 2. MOUNT THE SAFETY MTG BRKT (P/N: 47007965) TO THE CENTER RIB AS SHOWN USING ONE PREDRILLED HOLE, AND DRILL THE REMAINING HOLE. SECURE WITH SUPPLIED NUTS, WASHERS, AND BOLTS.
 3. THREAD ONE OF THE SUPPLIED FLANGE NUTS ONTO SAFETY MTG BAR, (P/N: 47007968), AND PLACE IT INTO THE SAFETY MTG BRKT, PARTIALLY SECURE WITH OTHER FLANGE NUT AS SHOWN IN DIAGRAM 1-1.
 4. THREAD THE SAFETY MTG BAR, THROUGH THE SUPPORT HOOPS AS SHOWN IN FIG. 1, MOUNT THE PLATE UNTO THE TENDER BOX USING THE EXISTING HOLE, AND SUPPLIED BOLT AND NUT.
 5. REPEAT STEPS 3-4 ON THE OTHER SIDE
 6. FINISH BY TIGHTENING THE FLANGE NUTS SECURING THE MTG BRKT SO THAT THE LANYARD FROM THE SAFETY HARNESS KIT,(P/N:47997965) WILL PASS OVER THE HOOPS.
- ON UNITS WITH THE ARCH DIVIDERS YOU WILL HAVE TO MOVE THE SAFETY STRAP BETWEEN SECTIONS.

CATWALK SAFETY HARNESS KIT – P/N: 47997965 (NOT INCLUDED/PURCHASED SEPARATELY)		SAFETY MTG BRKT P/N: 699125 QTY - 2
		PROTECTIVE SLEEVE P/N: 47007969 QTY - 3

**FOR UNITS USING THE 7" HIGH HEARTLAND AG SYSTEMS ARCH DIVIDER USES SAFETY BRACKET P/N: 47003694
INSTEAD OF SAFETY MOUNTING BRACKET P/N: 47007965 (7" HIGH ARCH DIVIDER ONLY)**

****IMPORTANT** – WHEN USING HOOPS, THE HOOP MUST BE LOCATED NEAR THE SAFETY BRACKET TO PREVENT DAMAGE TO THE TARP.**

CATWALK SAFETY HARNESS LAYOUT



NOTES:

- 1.) ON UNITS WITH THE HEARTLAND AG SYSTEMS ARCH DIVIDERS ITEM 3 (PROTECTIVE SLEEVE), IS NOT USED.
- 2.) FOR UNITS USING THE 7" HIGH HEARTLAND AG SYSTEMS ARCH DIVIDER USES SAFETY BRACKET P/N: 47003694 INSTEAD OF SAFETY MOUNTING BRACKET P/N: 47007965 (7" HIGH ARCH DIVIDER ONLY)

WIRING DIAGRAM
MT8, MT10, MT16, MT24, MT32

28340 LIGHT KIT

28340
04/04/18

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	57177	WIRE HARNESS W LOOM
2	1	57175	WIRE HARNESS W LOOM
3	1	01836	TAIL-LIGHT RH W/O LIC.
*	4	01829	TAIL-LIGHT W LIC ILL..
*	5	18103	CLEARANCE LIGHT, RED
6	2	18104	CLEARANCE LIGHT, AMBER
7	4	42448	BUTT CONNECTER
8	1	57180	REF WIRE, 14GA BROWN
9	1	57181	REF LOOM
10	1	57151	REF WIRE, 14GA BROWN
11	1	57140	REF LOOM
12	1	57183	QUICK SPLICE

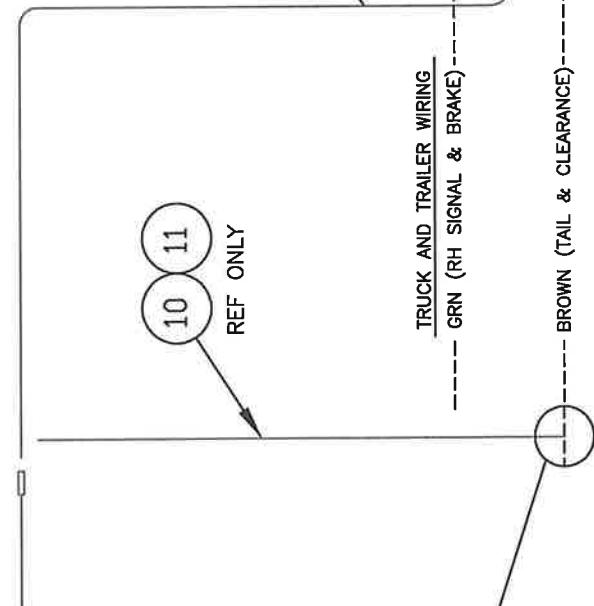
* MOUNTING BOLTS/NUTS PACKAGE IS INCLUDED
WITH LIGHTS PKG (REF ITEMS 13-16)

NOTE: FAR LED LIGHTS
IN THE TRUCK NEEDS EITHER
AN LED FLASHER, OR A
50 WATT 6 OHM RESISTOR
ADDED TO THE WIRE HARNESS

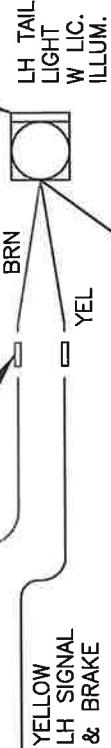
AMBER
CLEARANCE
LIGHT

NOTE: CUT 48" END TO DESIRED
LENGTH AND ADD CONNECTOR

6



400



ITEM	QTY	PART NUMBER	DESCRIPTION
13	4	41859	CLAMP, VINYL COVERED
14	4	18026422	BOLT, HEX HD 5/16 X 1 SS
15	4	18987700	NUT, FLANGED 5/16 SS
16	10	57182	CLIP, LARGE-FRAME

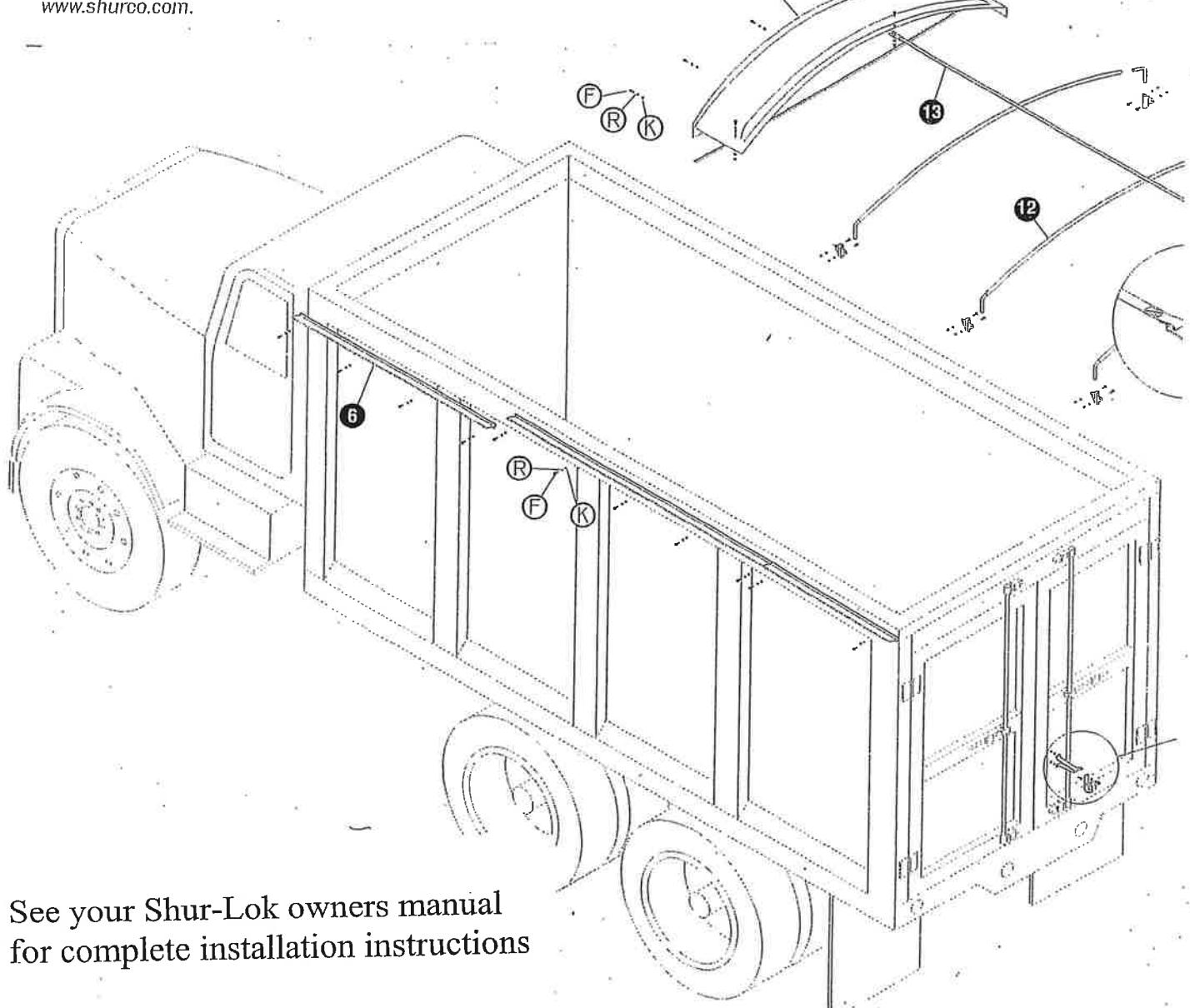
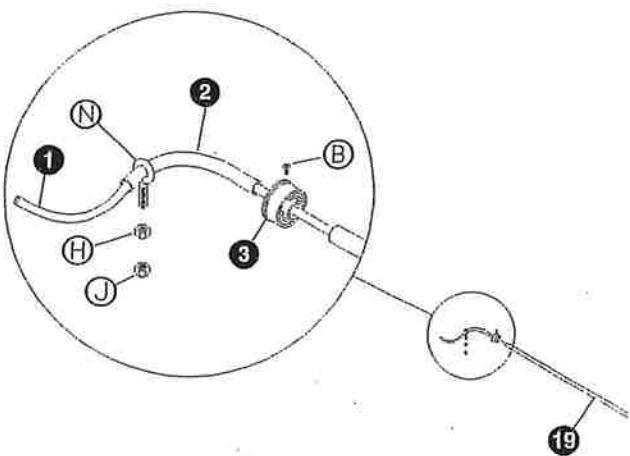
AMBER
CLEARANCE
LIGHT

ITEMS 13-16 ARE NOT
SHOWN, BUT ARE USED
TO SECURE WIRING AND
PLUMBING COMPONENTS

INSTALLATION QUESTIONS?
CALL THE SHUR-CO CUSTOMER SERVICE HELP LINE!
1-866-SHUR-HELP
(1-866-748-7435)

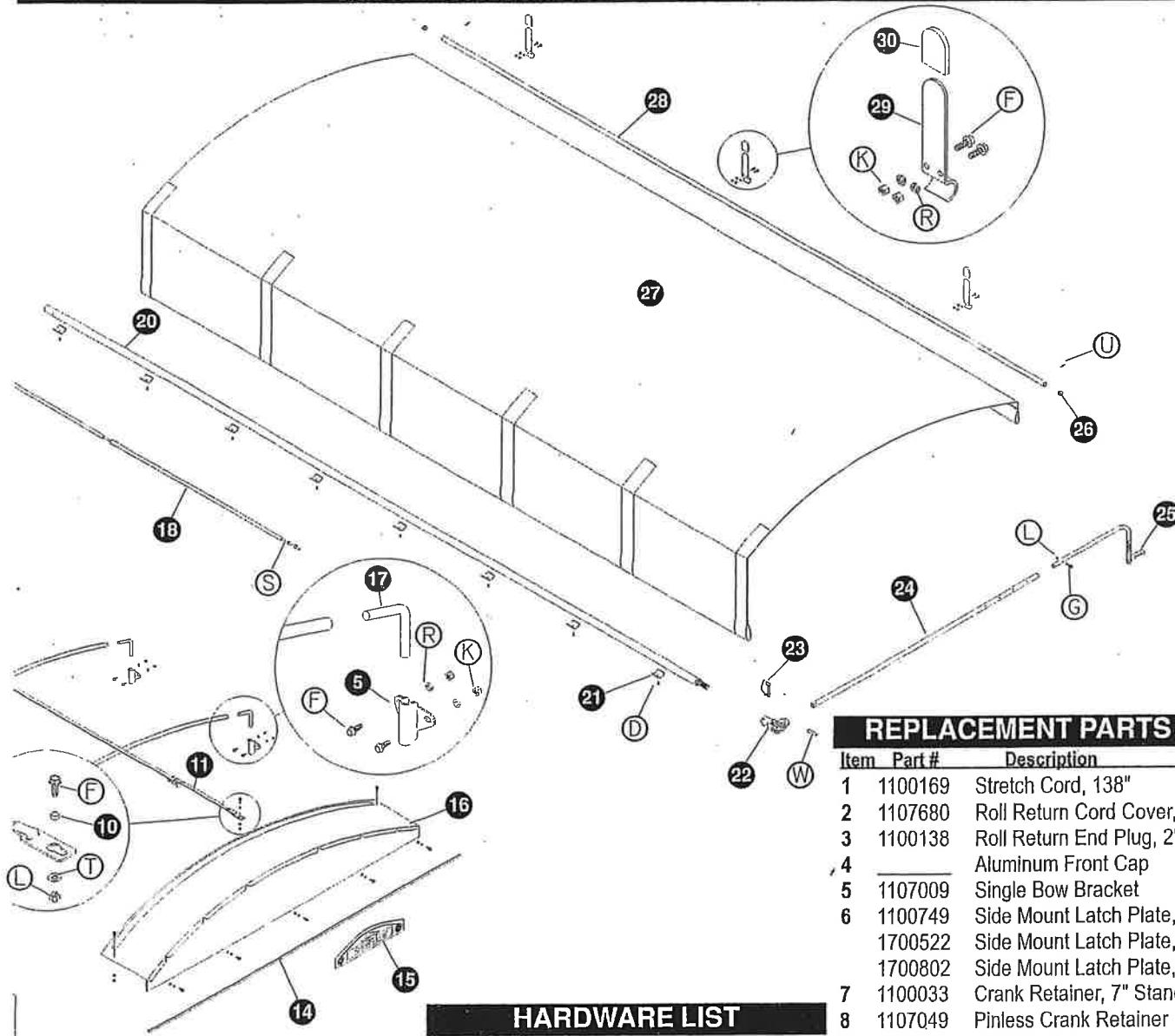
or download Installation Instructions at
www.shurco.com

We take pride in designing our products to more than meet your expectations. All our products are made to be as convenient and easy to install as possible. However, should you have any questions at all, please call our free Customer Service Help Line. Your system performance and satisfaction depend on it. Our Customer Service Help Line is available from 8 a.m. to 5 p.m. Monday thru Friday. We can also do your installation at one of our eight Service Centers across the U.S. Call for your nearest location or go to www.shurco.com.



See your Shur-Lok owners manual
for complete installation instructions

SHUR-LOK FARM & SEMI REPLACEMENT PARTS



REPLACEMENT PARTS LIST

Item	Part #	Description
1	1100169	Stretch Cord, 138"
2	1107680	Roll Return Cord Cover, 6"
3	1100138	Roll Return End Plug, 2"
4		Aluminum Front Cap
5	1107009	Single Bow Bracket
6	1100749	Side Mount Latch Plate, 4'-0"
	1700522	Side Mount Latch Plate, 8'-0"
	1700802	Side Mount Latch Plate, 6'-0"
7	1100033	Crank Retainer, 7" Stand-Off
8	1107049	Pinless Crank Retainer
9	1100306	Bushing, 11/16" x 5/16"
10	1101683	Bushing, 1/2" x 1/4"
	1101678	Ratchet w/Ridge Strap & Anchor
11	1101678	Bow, Low Rise, Standard
12	1100760	Ridge Strap & Anchor Assy, 1" x 25'-0"
13	1101680	Trim Seal, 110"
14	1100165	Shur-Lok Decal
15	1100182	Aluminum Back Cap
16		Bow Shank, 3/4" x 108"
17	1100695	Roll Return Pipe, 1/2 Sch 40 x 5', Bellied
18	1108568	Roll Return Pipe, 1/2 Sch 40 x 5'
19	1100168	Roll Tube W/ Splined Shaft, 2" x 20'
20	1107058	Plastic U-Clamp
21	1701354	Splined U-Joint
22	1701243	Wire Lock Pin, 3/8" x 2 1/2"
23	1700526	Crank Extension w/Insert, 80"
24	1100028	Crank Arm, Standard
25	1100171	End Plug, 1 1/8" OD
26	1700523	Shur-Lok Tarp
27		Swaged Tubing, 1 1/8" x 20'-03"
28	1700049	Tarp Stop, Standard
29	1100049	Protective Cap
30	1700729	

HARDWARE LIST

Item	Part #
A	1701423
B	1700084
C	1700736
D	1700398
E	1701059
F	1700400
G	1700369
H	1700411
J	1700419
K	1700407
L	1700418
M	1702996
N	1700717
P	1700433
R	1700434
S	1703373
T	1701176
U	1700474
V	1701118
W	1700443
	(see Hardware Identification on page 1).

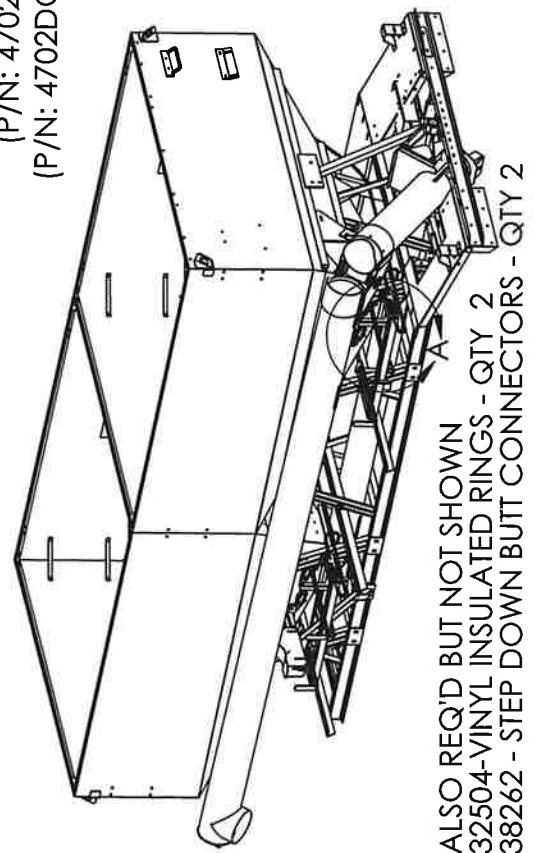


HELPLINE 1-866-748-7435

MT16 VIBRATOR PARTS LISTING

(MARTIN ENGINEERING VIBRATORS)
 (P/N: 4702DC700) LOOSE
 (P/N: 4702DC700A) INSTALLED

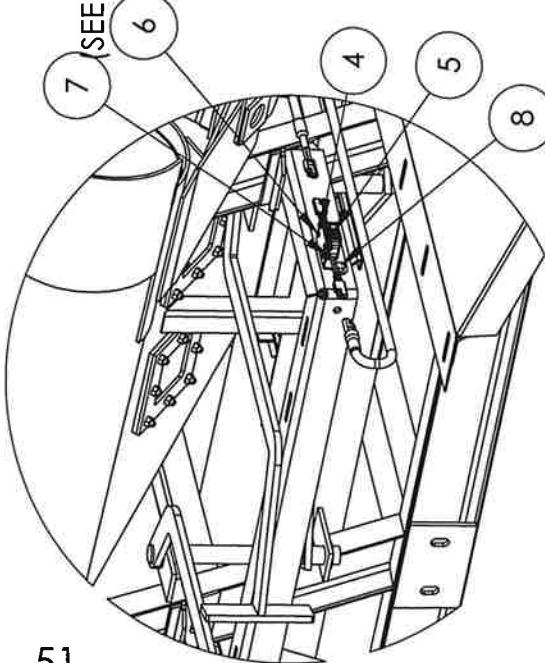
NOVEMBER 2018 & NEWER



(735320 - QTY 36 1/2' (1 - 14' / 1 - 22 1/2")

ITEM NO.	PART NUMBER	DESCRIPTION
1	mt16 w rear fenders	MT16 TENDER BODY/FRAME
2	47007997	VIBRATOR MOUNT
3	MDCV12-700-MM-96-06	VIBRATOR
4	76737	VIBRATOR SWITCH PLATE
5	CG-100451	SWITCH (INCLUDED WITH VIBRATOR)
6	18704218	SCREW MACH RD PH SS 8-32 X 3/4 LG
7	18474201	NUT HX NYLOCK #8-32 SS
8	18026422	BOLT CAP SS 5/16 X 1
9	18476351	NUT HX SS 5/16 SELF LOCK
10	195569-86	CORD EXTENSION 86" (INCLUDED W/ VIBRATOR)
11	735320	TRAILER WIRE 12GA/2
12	18097540	BOLT, HEX CAP 1/2-13 X 4 1/2 LG GRADE 8 ZC
13	18457400	NUT, NYLOCK 1/2-13 GRADE 8 ZC
14	18851400	WASHER FLAT 1/2 SAE ZC

51



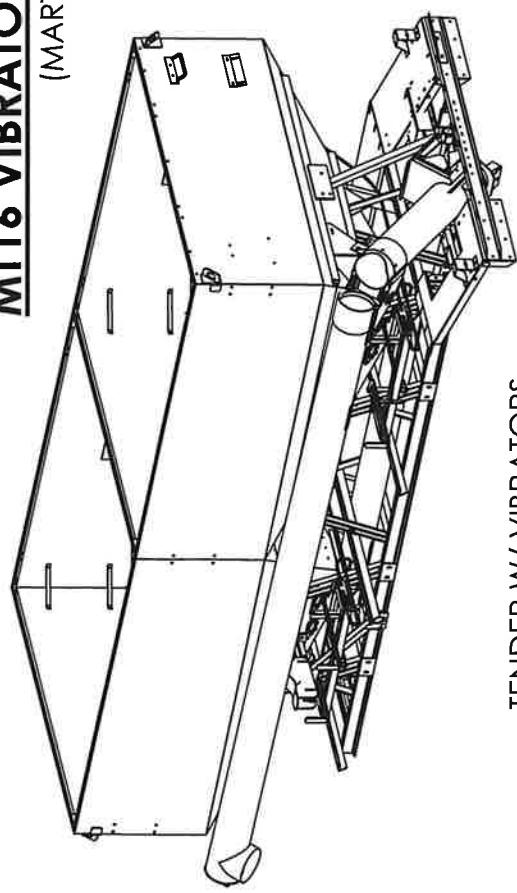
DETAIL A
 SCALE 1 : 10

(ITEM 1 SHOWN FOR REFERENCE ONLY)

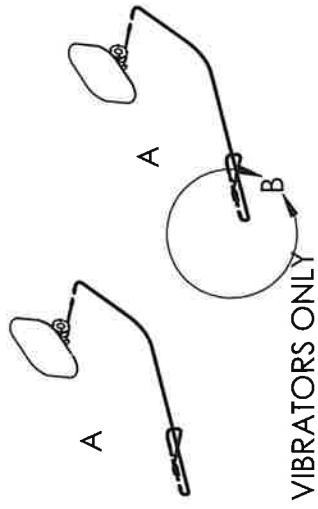
MT16 VIBRATOR INSTALLATION INSTRUCTIONS

(MARTIN ENGINEERING VIBRATORS)

NOVEMBER 2018 & NEWER



TENDER W/ VIBRATORS

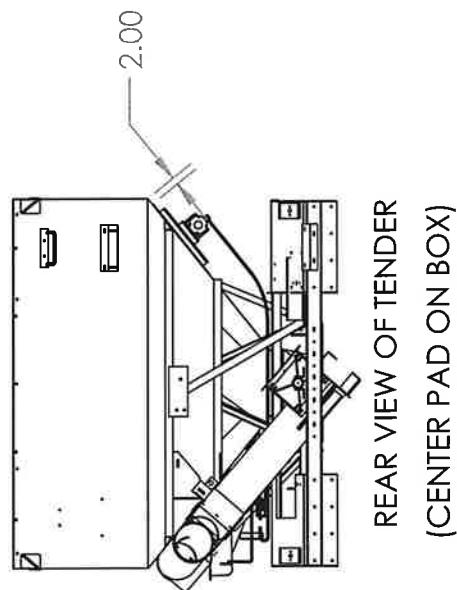


VIBRATORS ONLY

TO BATTERY



DETAIL B
SCALE 1:10



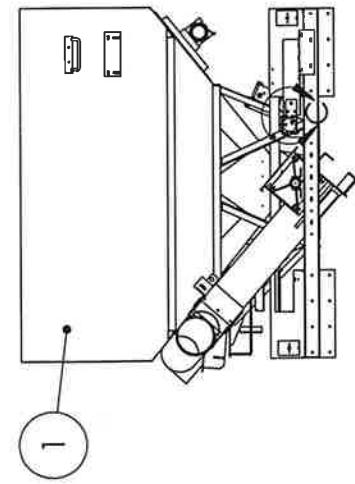
REAR VIEW OF TENDER
(CENTER PAD ON BOX)

1. CABLES MARKED "A" ARE PRE ASSEMBLED TO THE VIBRATOR ATTACH P/N: 38262 (STEP DOWN BUTT CONNECTOR) TO THE CONNECTOR
2. INSERT CUT TO LENGTH WIRE (P/N: 735320) INTO THE OPEN END OF THE BUTT CONNECTOR AND SEAL
3. REPEAT FOR ALL VIBRATORS
4. SEND P/N: 32504 (VINYL INSULATED RINGS) LOOSE

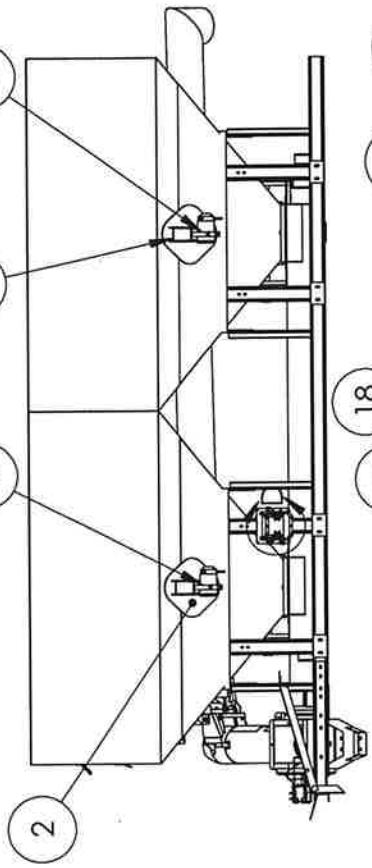
MT16 VIBRATOR PARTS LIST

P/N: 4702DC700

(VIBCO VIBRATORS MODELS PRE NOVEMBER 2018)
(AVAILABLE FOR 4 COMPARTMENT UNITS ONLY)



DETAIL C
SCALE 1 : 10



DETAIL D
SCALE 1 : 10

ALSO REQUIRED, BUT NOT SHOWN:
20046 - WIRE 6 GA 2 STRAND - 20'
6063 - WIRE 14 GA 3 STRAND - 10'
6064 - WIRE 14 GA 2 STRAND - 10'

ITEM NO.	PART NUMBER	DESCRIPTION	ITEM NO.	PART NUMBER	DESCRIPTION	ITEM NO.	PART NUMBER	DESCRIPTION
10	18000046	SELECTRA SWITCH SSAN105	2	N/A	WIRE CAP (SHOP SUPPLIES)	11	N/A	
11	18000041	1/2 CGB CG5050	12	18000048	CORD GRIP CG5050S	13	18000050	BOLT AH SS 1/4 X 3/4
12	18000048	NUT 1/4 NYLOCK SS	14	18000050	BOLT CAP SS 1/4 X 3/4	15	18569200	WASHER FLAT 1/4 SS
13	18000050	BOLT CAP SS 1/4 X 3/4	16	18025718	WASHER HX CAP G5 NC ZC 3/8	17	18881001	X 5
14	18000050	NUT SS NYLOCK 3/8	18	18056854	BOLT HX CAP G5 NC ZC 3/8	19	18566400	X 5
15	18569200		18	18056854		19	18566400	
16	18025718		18	18056854		19	18566400	
17	18881001		18	18056854		19	18566400	
18	18056854		18	18056854		19	18566400	
19	18566400		19	18566400		19	18566400	

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	mt16 w rear fenders 1	MT16 TENDER BODY/FRAME	1
2	47007997	VIBRATOR MOUNTING PAD	2
3	DC-700	VIBRATOR	2
4	47003464	MOUNTING PLATE	1
5	18000047	SCEPTER JBX 6X6X4 {COVER NOT SHOWN}	1
6	47003461	REAR MOUNTING PLATE	1
7	18000042	SCEPTER JBX 4X4X4 {COVER NOT SHOWN}	1
8	77002	4-PORT SOLENOID	2
9	18000049	SELECTRA SWITCH SS206A-BG	2

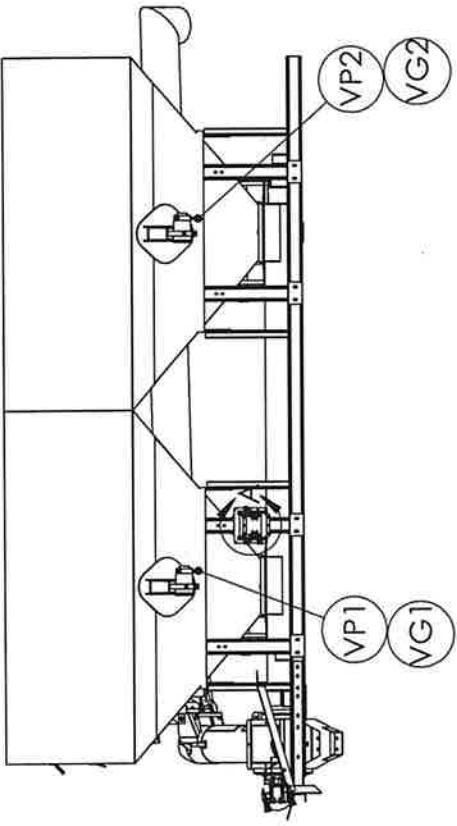
MT16 VIBRATOR CONNECTION DIAGRAM

P/N: 4702DC700

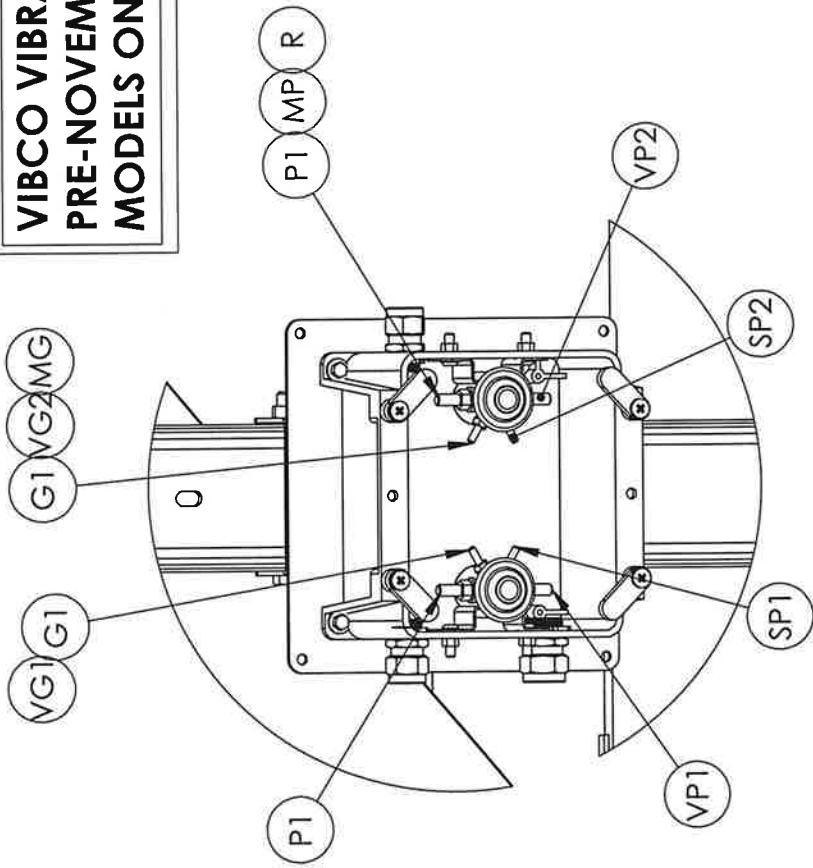
LETTER	DESCRIPTION
G	GROUND WIRE
P	POWER (JUMP) WIRE
R	RETURN LINE
MG	MAIN GROUND
MP	MAIN POWER
SG	SWITCH GROUND
SP	SWITCH POWER
VG	VIBRATOR GROUND
VP	VIBRATOR POWER

NOTES:

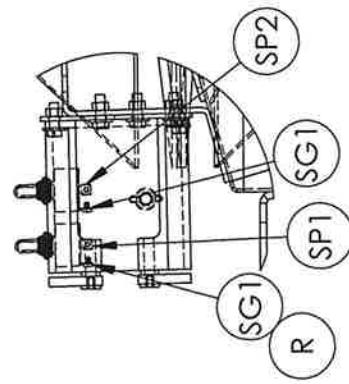
1. GROUND WIRES = BLACK
2. POWER WIRES = WHITE
3. SP1 = BLACK
4. SP2 = GREEN



**VIBCO VIBRATORS
PRE-NOVEMBER 2018
MODELS ONLY**



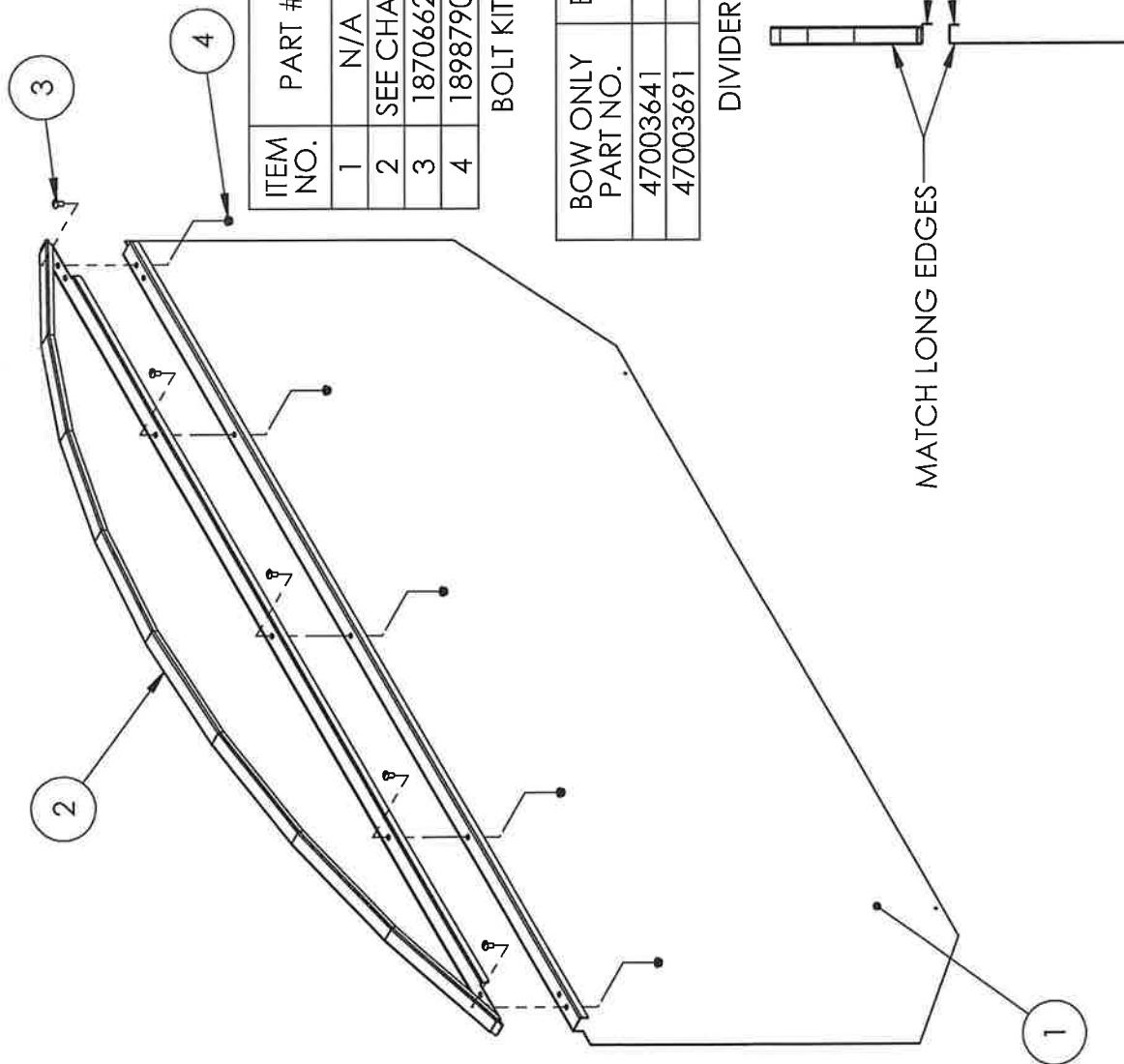
DETAIL A
SCALE 1:5



ARCH DIVIDER LAYOUT & PARTS LISTING

ARCH DIVIDER
06/04/19

(MT16 - MT24 - MT32)

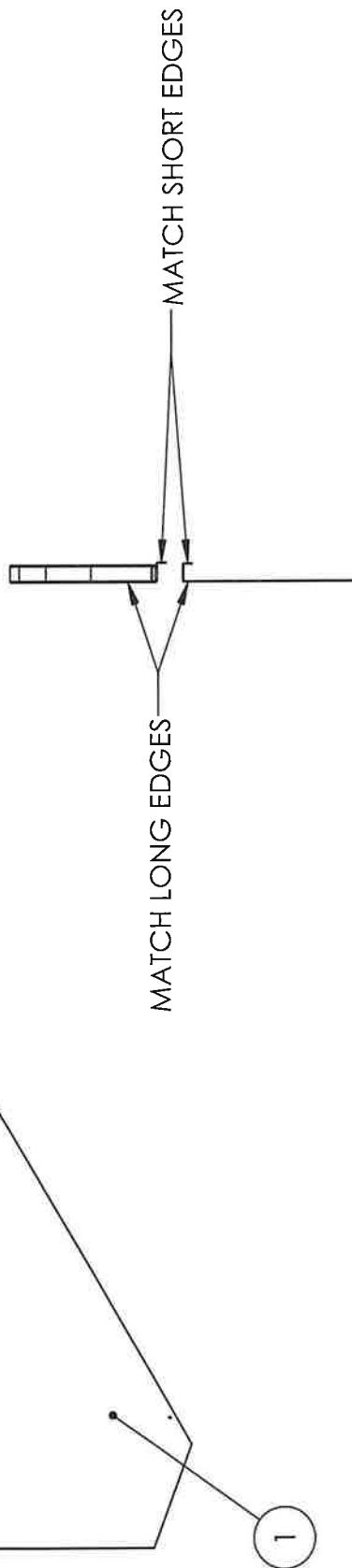


ITEM NO.	PART #	DESCRIPTION	QTY
1	N/A	DIVIDER PANEL(ON TENDER)	N/A
2	SEE CHART	BOW DIVIDER	1
3	18706621	SCREW, SLOTTED TRUSS HEAD 3/8 X 3/4 S.S.	5
4	18987900	NUT, SER. FLG. S.S. 3/8	5

BOLT KIT P/N: 47883641 CONTAINS ITEMS 3 AND 4

BOW ONLY PART NO.	BOW W/ HARDWARE PART NO.	FITS UNIT
47003641	47993641	MT 16/24/32 (12" HIGH ARCH)
47003691	47993691	MT 16/24/32 (7" HIGH ARCH)

DIVIDERS ARE ORDERED INDIVIDUALLY



AUGER WARNING SYSTEM

PART #: 70660

This diagram illustrates the wiring connections for a speaker assembly, including an alarm and a fan. The assembly consists of a speaker (1), a fan (12), and a control box (13). The connections are as follows:

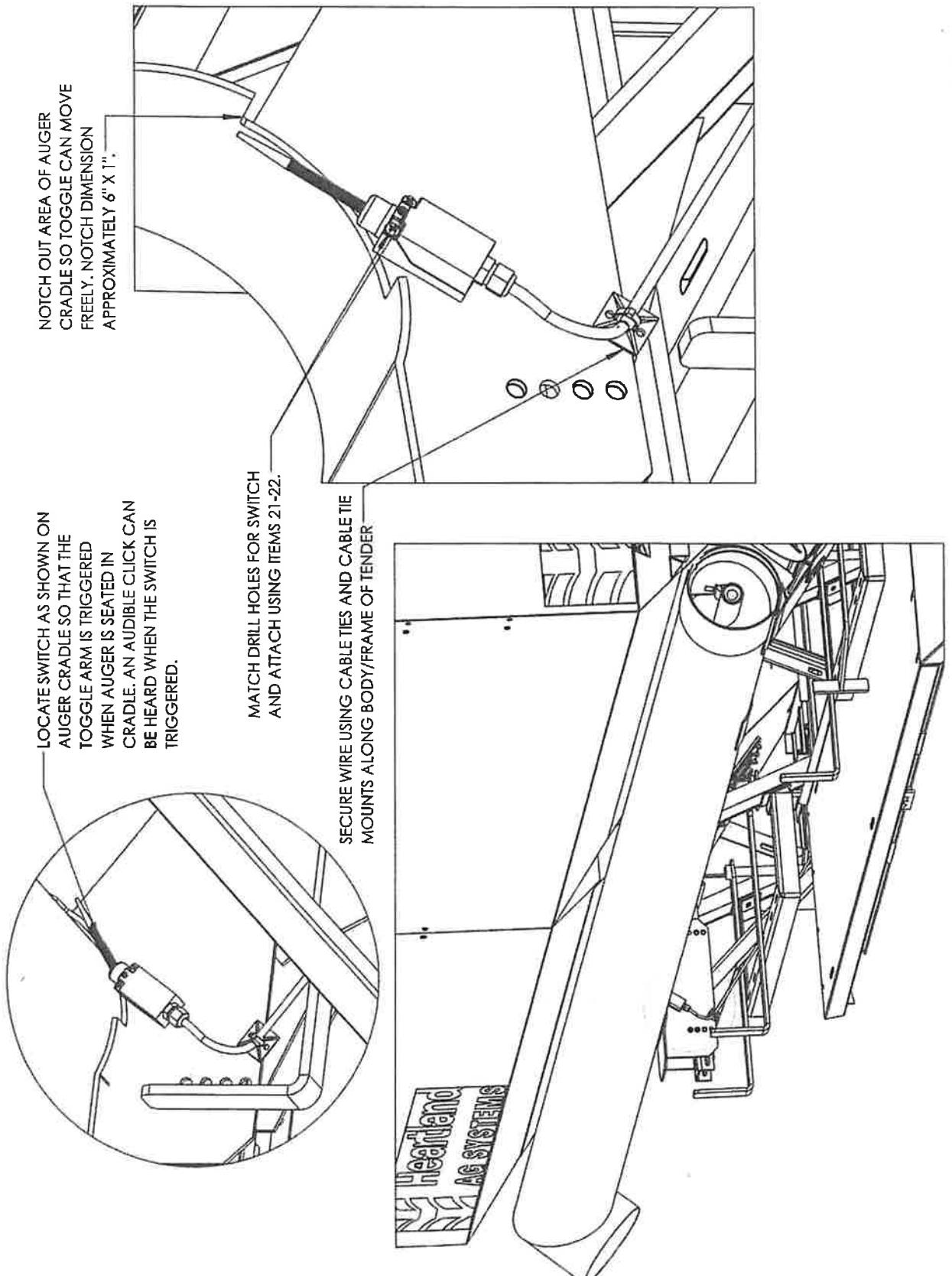
- Speaker:** The speaker (1) is connected to the control box (13) via wires labeled (1) and (2).
- Fan:** The fan (12) is connected to the control box (13) via wires labeled (1) and (2).
- Control Box:** The control box (13) has several connections:
 - ALARM RED WIRE (1) connects to terminal (14).
 - ALARM BLACK WIRE (1) connects to terminal (15).
 - WIRE SWITCH NORMALLY CLOSED (NC) (16, 17) connects to terminals (15) and (14).
 - WIRE WIRE 21, BLACK WIRE 22 (18) connects to terminal (17).
 - WIRE WIRE 21, BLACK WIRE 22 (19) connects to terminal (16).
 - BLACK WIRE (5) connects to terminal (12).
 - WHITE WIRE (2) connects to terminal (11).
- External Components:**
 - A separate component (6) is connected to terminal (11) via a 10' long wire.
 - A component (7) is connected to terminal (19) via a 40' long wire.
 - An alarm assembly (10, 18, 12) is connected to terminals (10) and (19) via a 10' long wire. The alarm assembly includes a switch (10), a resistor (18), and a diode (12). The connection to terminal (10) is labeled (-) and the connection to terminal (19) is labeled (+).
- Textual Instructions:**
 - STRIP JACKET & WIRE ENDS AS NEEDED TO ASSEMBLE
 - INSTALL ALARM TO COVER WITH SPEAKER SIDE TO OUTSIDE EDGE

AUGER WARNING SYSTEM

PART #: 70660

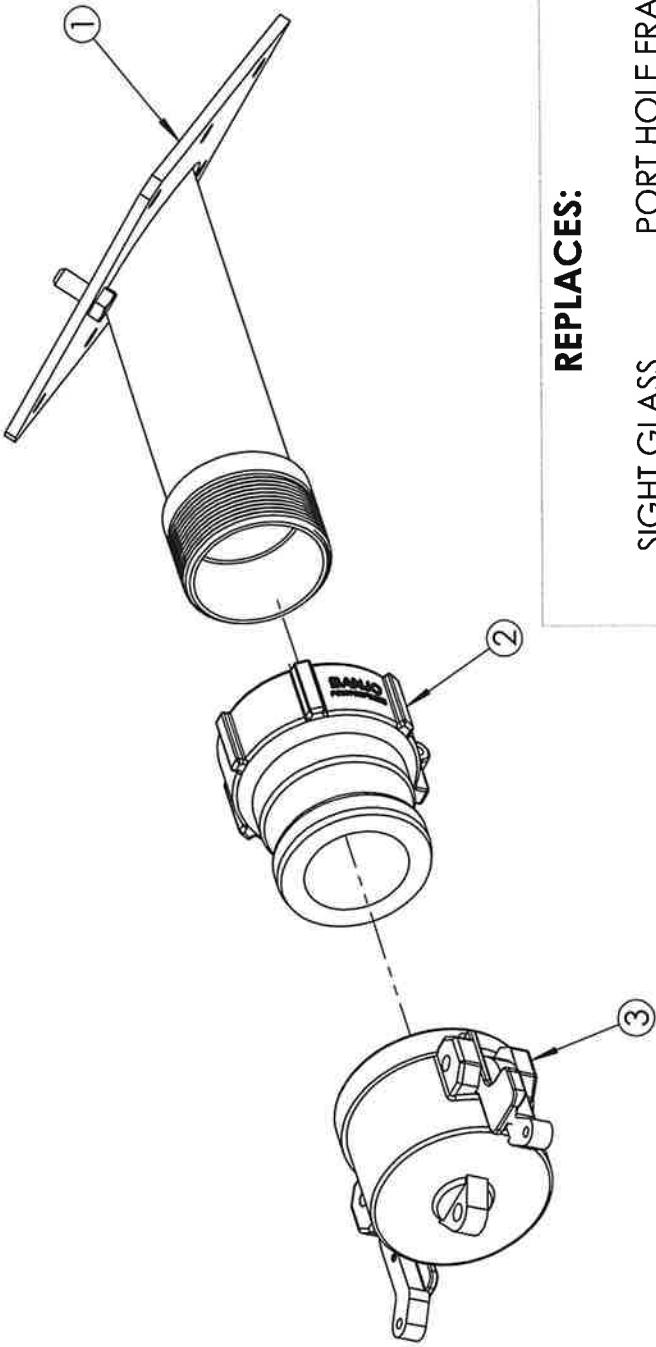
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	70875	ALARM BOX	1
2	70878	CORDGRIP	3
3	70877	FEMALE BULKHEAD CONNECTOR WITH NUT	1
4	70876	STOP LIGHT SWITCH	1
5	70879	1/4" X 1" SELF TAPPING SCREW, SS, DRILL TIP	4
6	70880	UNION TEE, 3/8"	1
7	70881	LIMIT SWITCH	1
8	70656	RING TERMINAL, HEAT SHRINK, 16-14 GA AND #10 SCREW SIZE	2
9	70882	IN LINE FUSE HOLDER	1
10	70883	RING TERMINAL, HEAT SHRINK, 16-14 GA AND 3/8" SCREW SIZE	2
11	70884	AIR BRAKE TUBING	8'
12	70886	SPLICING CONNECTOR, 16-14 GA, HEAT SHRINK	3
13	70887	ALARM	1
14	70875-2	ALARM BOX COVER (INCLUDED W / ALARM BOX)	1
15	18055718	BOLT HX 1/4 X 3/4"	2
16	18881001	WASHER FLAT 1/4 SS	2
17	18569200	NUT 1/4 NYLOCK SS	2
18	70888	FUSE, 7.5A	1
19	70885	PORTABLE CORD	50'
20	70658	ADHEASIVE BACKED CABLE TIE HOLDER, OUTDOOR	12
21	71043	NUT, NYLOCK, 10-24, SS	2
22	71044	SCREW, PAN HEAD, 10-24 X 1-3/4", SS	2
23	70659	CABLE TIE, 7-1/2" LONG, OUTDOOR	12

MT16, MT24, AND MT32 MOUNTING LOCATIONS



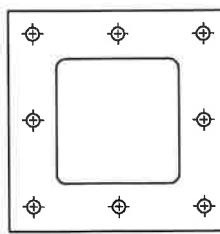
OPTIONAL BOLT ON POKE HOLE & FLUSH TUBE
P/N: 71850

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	71849	POKE HOLE/FLUSH TUBE WELDT	1
2	200A	BANJO 2" CAM LEVER COUPLING, MALE ADAPTER FEMALE THREADS	1
3	200172	2" FEMALE COUPLER CAP	1

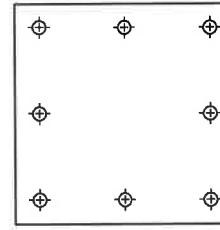


REPLACES:

PORT HOLE FRAME
P/N: 76609



SIGHT GLASS
P/N: 76608



ORDER 1 PER WINDOW TO BE REPLACED

SECURE USING THE HARDWARE REMOVED FROM WINDOWS

(18026422 - BOLT CAP SS 5/16 X 1 - QTY 7 (8 WILL BE REMOVED))
 (18476351 - NUT HX SS 5/16 SELF LOCK QTY 8)



WARRANTY CLAIM FORM



Heartland
AG SYSTEMS
Heartland Agriculture, LLC

Warranty c
November 4, 2020
Heartland Agriculture H.C. dba Heartland AG Systems