

OPERATORS AND PARTS MANUAL NO. 03-2-SI

MEYER

INDUSTRIAL SERIES
TWIN EXPELLER SUPER SPREADER
MODEL 7200

PATENTED
U.S. PATENT NO.
5,368,236
5,501,404



DO NOT OPERATE EQUIPMENT UNTIL THIS MANUAL HAS BEEN READ AND UNDERSTOOD

MEMBER



FEMA

MANUFACTURED BY
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NEW MEYER INDUSTRIAL SPREADER
MANUFACTURER'S WARRANTY

- I. The "Product Registration & Inspection Certificate" along with the original billing invoice "Owners Registration Form" must be completed in full and promptly returned to Meyer Mfg. Corp. for this warranty to become both valid and effective. All warranties on New Meyer Super Spreaders shall apply only to the original retail customer from an authorized Meyer Mfg. Corp. dealership.
- II. This warranty shall not apply to any Meyer Super Spreader which has been subjected to misuse, negligence, alteration, accident, incorrect operating procedures, or which shall have been repaired with parts other than those obtained through Meyer Mfg. Corp.
- III. Meyer Mfg. Corp. warrants New Meyer Super Spreaders to be free from defects in material and workmanship under recommended use and maintenance service, as stated in the Operator's and Parts Manual," as follows:
 - A. Meyer Mfg. Corp. will repair or replace F.O.B. Dorchester, WI, as Meyer Mfg. Corp. elects, any part of a new Meyer Super Spreader which is defective in material or workmanship:
 1. Without charge for either parts or labor during the first (1) year from purchase date to the original retail customer.
 - B. In addition to the above basic warranty, Meyer Mfg. Corp. will repair or replace F.O. B. Dorchester, WI as Meyer Mfg. Corp. elects:

Ten (10) Years: After a period of (1) year, the spreader tank body is warranted against rust-through for an additional period of (9) years. (Pro-Rated Parts Only). Parts included, front and rear end panels, side panels, and auger trough.
- IV. COMMERCIAL USE: Coverage as in paragraph III A1 ONLY, except warranty coverage is for (90) days for parts and labor to the original commercial retail customer.
- V. Repairs eligible for labor warranty must be made by Meyer Mfg. Corp. or an authorized Meyer dealership. The original retail customer is responsible for the transportation of the super spreader to the dealership for warranty service or for any service call expenses.
- VI. Except as stated above, Meyer Mfg. Corp. shall not be liable for injuries or damages of any kind or nature, direct, consequential, or contingent, to persons or property. This warranty does not extend to loss of crop or for any other reasons.
- VII. No person is authorized to give any other warranties or to assume any other obligation on Meyer Mfg. Corp.'s behalf unless made or assumed in writing by Meyer Mfg. Corp. This warranty is the sole and exclusive warranty which is applicable in connection with the manufacture and sale of this product and Meyer Mfg. Corp.'s responsibility is limited accordingly.
- VIII. This warranty is effective on all sales of Meyer Super Spreaders made after January 1, 1992.

INTRODUCTION

Congratulations on your purchase of a new Meyer farm equipment product. Undoubtedly you have given much consideration to your purchase and we're proud that you have selected Meyer. Pride in craftsmanship, engineering and customer service have made Meyer products the finest in the farm equipment industry today.

There is no substitute for quality. That is why thousands of people like you have purchased Meyer farm equipment. They felt it was the best equipment to serve their farming needs, now and in years to come. We ask that you follow our policy of "safety first," and we strongly suggest that you read through the owner's manual before operating your Meyer farm equipment.

Meyer Manufacturing Corporation wants to thank you for not compromising quality. We are determined to offer excellence in customer service as well as provide you with the very best value for your dollar.

REMEMBER:

**FARM EQUIPMENT BUYERS
TRUST THE NAME MEYER!**

Sincerely,

All Employees of
MEYER MANUFACTURING CORPORATION

Meyer Mfg. Corp. reserves the right to make improvements in design, or changes in specifications at any time, without incurring any obligation to owners of units previously sold.

This supersedes all previous published instructions.

IMPORTANT:

At the front of this manual is a Product Registration and Inspection Certificate. Be sure your dealer has completed this certificate and promptly forwarded a copy to Meyer Mfg. to validate the manufacturer's warranty. The product model and serial number are recorded on this certificate and below for proper identification of your Meyer Industrial Spreader by your dealer and the manufacturer when ordering repair parts. The serial number plate is found on the upper left front corner of the spreader tank or stamped in the left front frame channel.

Model No. _____

Serial No. _____

Date of Purchase _____

At the back of this manual is the repair parts section. All replacement parts are to be obtained from or ordered through your Meyer dealership. When ordering repair parts, refer to the parts section and give complete information including quantity, correct part number, detailed description and even Model No. and Serial No. of the Meyer Industrial Spreader which needs repair parts.

NOTE: All references to right hand (RH), left hand (LH), front and rear apply to the product as viewed from the rear of the spreader.

SAFETY PRECAUTIONS



This symbol is used to call attention to instructions concerning personal safety. Be sure to observe and follow these instructions. Take time to be careful!



WARNING: BEFORE ATTEMPTING TO OPERATE THIS SPREADER, READ AND STUDY THE FOLLOWING SAFETY INFORMATION. IN ADDITION, MAKE SURE THAT EVERY INDIVIDUAL WHO OPERATES OR WORKS WITH THE SPREADER, WHETHER FAMILY MEMBER OR EMPLOYEE, IS FAMILIAR WITH THESE SAFETY PRECAUTIONS.

Require anyone who will operate this spreader to read and completely understand this Owner's Manual. Give necessary instructions!

DO NOT operate, service, inspect or otherwise handle this spreader until all operators have read this Owner's Manual and have been properly trained in the intended usage of the spreader.

Do not allow minors (children) or inexperienced persons to operate this spreader.

If the spreader becomes clogged, shut off the tractor engine and allow all mechanisms to stop. Disconnect PTO shaft and hydraulic hoses (relieve hydraulic pressure). Then, clean or work on the spreader as required.

Always shut off power and disconnect PTO drive shaft and unhook hydraulic hoses (relieve hydraulic pressure) from tractor to prevent accidental startup or unexpected movement before working on machine.

Do not clean, adjust, or lubricate while spreader is in motion.

Make sure all hydraulic fittings are tight and that all hoses are in good condition. Hydraulic fluid escaping under pressure can have sufficient force to penetrate skin and cause serious injury. Never investigate for hydraulic leaks by using a part of the body to feel for escaping fluid.

Inspect when first delivered and regularly thereafter; that all connections and bolts are tight and secure before operating.

Know how to stop the spreader before starting it!

Do not operate until all shields, covers, and guards are in place.

Make certain everyone is clear of the spreader before applying power.

Keep hands, feet and clothing away from moving parts. Loose or floppy clothing should not be worn by the operator.

Stay well clear of the spreader's rear discharge spinners while operating.

Do not step up on any part of the spreader at any time. Do not use PTO guard as a step.

Do not step over the power take-off shaft. Stay clear of the PTO at all times.

Keep PTO shaft telescoping tube shields turning freely. Keep PTO master shield on tractor. Replace shields missing or damaged.

Never operate PTO above normal 540 or 1000 RPM rating. Tractors PTO MUST match implement PTO.

Use only properly rated tires.

Do not tow at speeds in excess of 20 MPH when transporting this spreader. Never exceed a safe travel speed.

Observe all applicable traffic laws when transporting on public roadways (where legal to do so). Check local laws for all highway lighting and marking requirements.

WHEN TOWING THE SPREADER ON PUBLIC ROADS A Safety Chain of sufficient strength to support, along the line of travel, the gross weight (See Maximum Load Weight Chart / Transporting Section) of the spreader must be used. A safety chain should be attached per diagram in Transporting Section.

Always install a SMV emblem on this spreader for transporting on roadways and keep the emblem clean and bright.

MEYER MFG. CORP. PROVIDES GUARDS FOR EXPOSED MOVING PARTS FOR THE OPERATOR'S PROTECTION; HOWEVER, SOME AREAS CANNOT BE GUARDED OR SHIELDED IN ORDER TO ASSURE PROPER OPERATION. THE OPERATOR'S MANUAL AND DECALS ON THE MACHINE ITSELF WARN YOU OF DANGERS AND MUST BE READ AND OBSERVED CLOSELY.

**STUDY THE ABOVE SAFETY RULES
FAILURE TO HEED MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.**



SAFETY FIRST



A brief definition of signal words that may be used in this manual is as follows:



DANGER Indicates an imminently hazardous situation which, if not avoided, WILL result in serious injury or death.

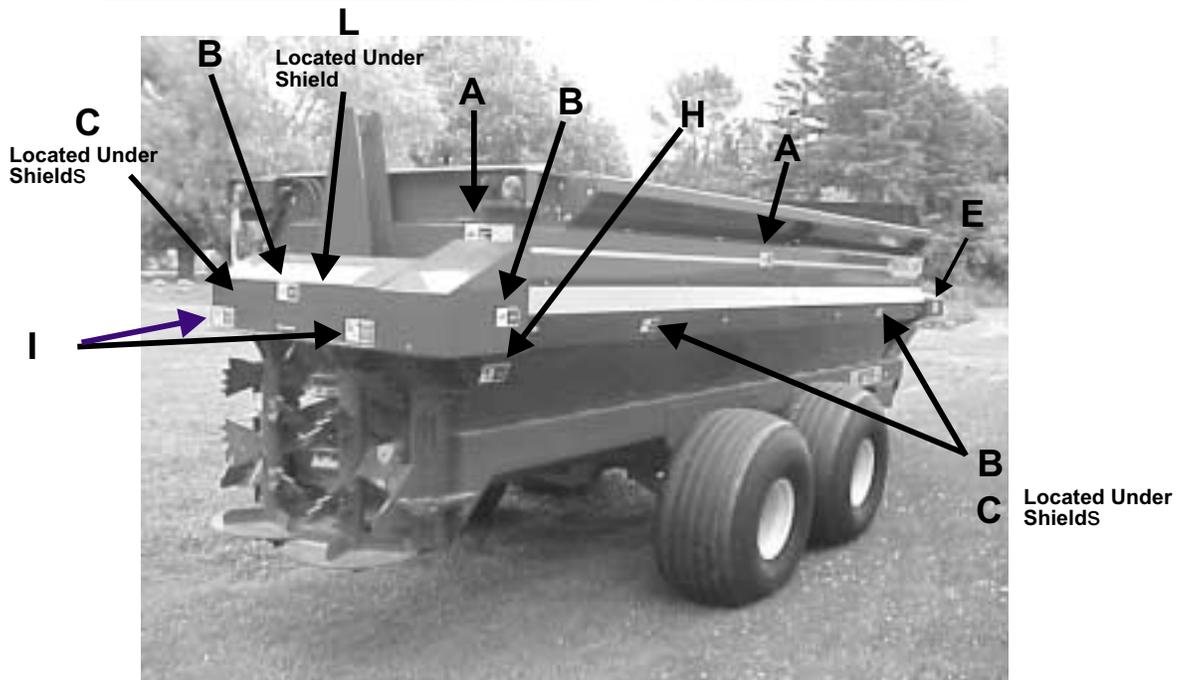
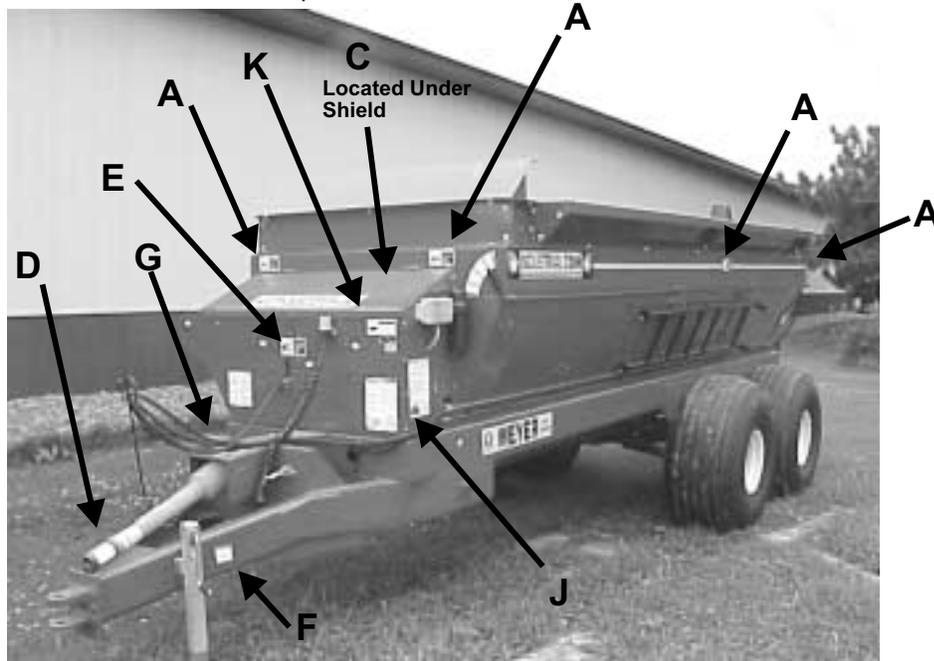


WARNING Indicates a potentially hazardous situation which, if not avoided, COULD result in death or serious injury, and includes hazards that are exposed



when guards are removed.

CAUTION Indicates a potentially hazardous situation which, if not avoided, MAY result in minor or moderate injury. It is also used to alert against unsafe practices.



CAUTION: READ ALL DECALS ON THE SPREADER AND IN THIS MANUAL. KEEP THESE DECALS CLEAN AND REPLACE ANY LOST OR DESTROYED DECALS. BECOME FAMILIAR WITH ALL TRACTOR AND SPREADER CONTROLS.



SAFETY FIRST



The Meyer Super Spreader is manufactured with operator safety in mind. Located on the manure spreader are various decals to aid in operation and warn of danger or caution areas. Pay close attention to all decals on the spreader.



DO NOT REMOVE ANY DECALS. IF DECALS ARE LOST, DAMAGED OR IF MANURE SPREADER IS REPAINTED, REPLACE DECALS. REMEMBER: DECALS ARE FOR YOUR PROTECTION AND INFORMATION.



DECAL A. PART NO. 46-0001-5



DECAL C. PART NO. 46-0001-26



DECAL B. PART NO. 46-3600-9



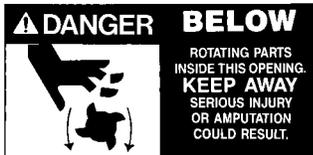
DECAL F. PART NO. 46-3600-6



DECAL D. PART NO. 46-0001-13



DECAL E. PART NO. 46-0001-4



DECAL I. PART NO. 46-3600-1



DECAL H. PART NO. 46-3600-8



DECAL G. PART NO. 46-0004-2



DECAL K. PART NO. 46-0001-35



DECAL J. PART NO. 46-0001-22



DECAL L. PART NO. 46-5570-3



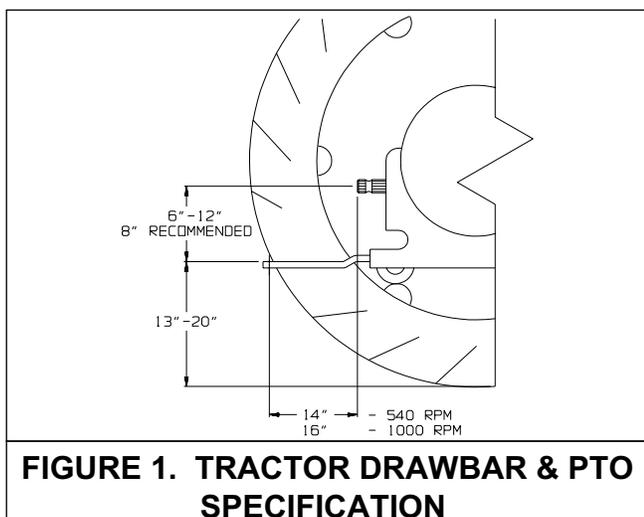
CAUTION: READ ALL DECALS ON THE SPREADER AND IN THIS MANUAL. KEEP THESE DECALS CLEAN AND REPLACE ANY LOST OR DESTROYED DECALS. BECOME FAMILIAR WITH ALL TRACTOR AND SPREADER CONTROLS.

PRE-OPERATION

WARNING: BEFORE OPERATING, READ THIS OWNERS MANUAL COMPLETELY. PAY PARTICULAR ATTENTION TO THE “SAFETY PRECAUTION” AND “SAFETY FIRST” PAGES. READ ALL SAFETY MESSAGES HIGHLIGHTED BY “SAFETY ALERT SYMBOLS” THROUGHOUT THE MANUAL.

This spreader can be operated with 540 or 1000 RPM PTO. The hitch of the spreader is designed for a standard tractor drawbar. Adjust the drawbar at 13 to 20 inches above the ground. Extend or shorten the drawbar so horizontal distance from end of tractor PTO shaft to center of the hitch pin hole is 16 inches. Secure the drawbar so that the hitch pin hole is located directly below the PTO drive line. See figure 1 for location of standard measurements.

An improperly located hitch point may cause damage to the universal joints of the PTO drive shaft. Conforming



to the standard 16" drawbar & PTO relationship will ensure that the PTO drive shaft will not become over-extended.

DANGER: DO NOT OPERATE WITHOUT PTO GUARD ON SPREADER AND ON TRACTOR. MAINTAIN PTO DRIVE SHAFT GUARD TUBES IN OPERATING CONDITION. REPLACE THEM IF DAMAGED AND NOT TURNING FREELY. FAILURE TO HEED MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.

WARNING: INSPECT REGULARLY THAT ALL CONNECTIONS AND BOLTS ARE TIGHT AND SECURE BEFORE OPERATING. FAILURE TO HEED MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.

Check for proper assembly and adjustment and make sure that all bolts are tightened. Securely retighten after a few hours of operation, as bolts can loosen up on new machinery. Check wheel lug nuts upon delivery and periodically thereafter. Lug nuts should be tightened at 250-265 ft./lbs. of torque. Check the tires and inflate to the recommended pressure. See chart on page 55. Inspect all adjustments on the spreader to be sure they are proper and to provide maximum performance. Lubricate the spreader completely if it is required and check the level of oil in the right rear corner gear box, and the gear grease in the expeller gear boxes.

WARNING: DO NOT OPERATE WITHOUT ALL SHIELDS, GUARDS AND COVERS INSTALLED. FAILURE TO HEED MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.

Fasten the spreader hitch to the tractor drawbar with a hitch pin that cannot bounce out. Use a 1-5/16" to 1-3/8" diameter hitch pin to pull spreader.

Remove the weight from the jack (jack is not to be used when spreader is loaded). Remove the jack from square mount tube and move to the transport storage tube on the left front side of the frame channel. Store in a horizontal position.

Before operation and after hitching the tractor to the spreader, connect the PTO drive shaft to the tractor. Slide spring loaded locking collar on PTO yoke rearward, and slide yoke onto the tractor PTO shaft. Release spring loaded collar. Be sure pins fall into groove of tractor PTO shaft and collar snaps forward into locking position.

CAUTION: DO NOT USE A STEEL HAMMER TO AID IN JOINING PTO PARTS.

Route hydraulic hoses through the hose support rod which is mounted to the hitch frame, figure 2. Connect the hydraulic hoses for the flow control rear gate to the tractor's double acting valve hydraulic system. Move the tractor hydraulic controls to observe proper flow gate operation. If the controls operate the gate in opposite directions to what you expect, reverse the hydraulic hose connections at the tractor.

⚠️ WARNING: HYDRAULIC FLUID ESCAPING UNDER PRESSURE CAN HAVE SUFFICIENT FORCE TO PENETRATE SKIN. KEEP ALL HOSES AND CONNECTIONS IN GOOD SERVICEABLE CONDITION. FAILURE TO HEED MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.

Before loading spreader, slowly engage the tractor PTO and operate machine at idle speed for several minutes to insure the spreader is lubricated and operating properly.

TRANSPORTING

TRACTOR TOWING SIZE REQUIREMENTS

Use the following chart for calculating the minimum tractor weight.

MODEL	SPREADER EMPTY WEIGHT + LOAD = GW	MINIMUM TRACTOR WEIGHT UP TO 20 MPH
SV2636	6,100 + _____ = _____	2/3 of spreader gross weight
SV3245	7,640 + _____ = _____	2/3 of spreader gross weight
SV3954	8,650 + _____ = _____	2/3 of spreader gross weight
SI7200	11,445 + _____ = _____	2/3 of spreader gross weight
SI8500	18,140 + _____ = _____	2/3 of spreader gross weight

MATERIAL ESTIMATED WEIGHT PER CUBIC FOOT

MATERIAL	LBS / CU. FT.
LIME SLUDGE	110-115 LBS.
DRY FEEDLOT MANURE	63-65 LBS.
CHICKEN LITTER	63-65 LBS.
CAKE SLUDGE	62-65 LBS.
SEMI-SOLID MANURE	58-60 LBS.
PEN PACKED MANURE	30-35 LBS.
LIQUID MANURE	63-65 LBS.

MAXIMUM SPREADER LOAD WEIGHTS					
Model	2636	3245T	3954T	7200T	8500T
Maximum Gross Weight (Pounds)	12,000	24,000	32,000	43,445	56,140
Total Net Weight (Pounds)	6,100	7,640	8,650	11,445	18,140
Cubic Foot Capacity**	181	227	272	466	562
Capacity in Gallons	1,355	1,694	2,033	3,492	4,200
**Struck capacity, heaped loads have significantly higher capacities					

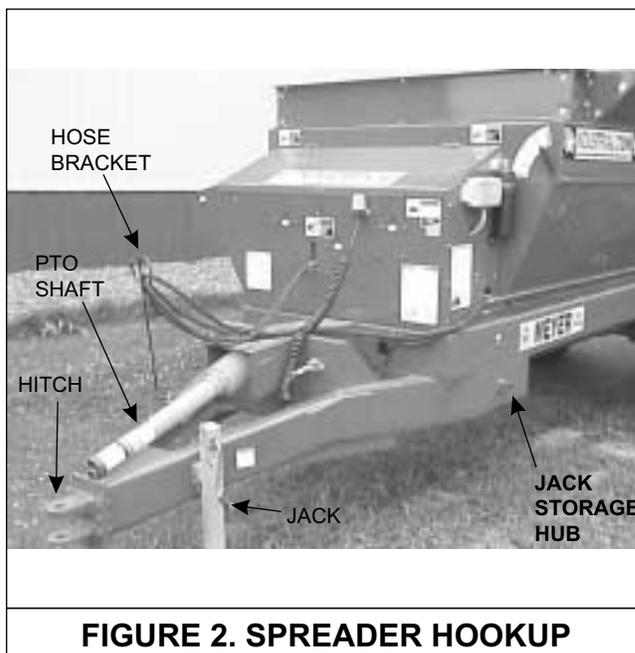


FIGURE 2. SPREADER HOOKUP

SOURCE: ASAE

NOTE: HEAPED LOADS HAVE SIGNIFICANTLY HIGHER CAPACITIES

Check that the flow control rear gate is completely closed. It is unlawful to allow slurry to splash or leak onto public roads.

⚠️ WARNING: DO NOT TOW AT SPEEDS GREATER THAN 20 MPH. FAILURE TO HEED MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.

Operating speed is dictated by the terrain over which you are traveling. Always use caution. Avoid traveling on slopes or hills that are unsafe.

⚠️ WARNING: OBSERVE ALL APPLICABLE TRAFFIC LAWS WHEN TRANSPORTING ON PUBLIC ROADWAYS. CHECK LOCAL LAWS FOR ALL HIGHWAY LIGHTING AND MARKING REQUIREMENTS.

⚠️ WARNING: INSTALL A SMV EMBLEM ON REAR OF SPREADER FOR TRANSPORTING ON ROADWAYS AND KEEP THIS EMBLEM CLEAN AND BRIGHT. FAILURE TO HEED MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.

If you will travel on public roads and it is legal to do so, you must know all rules governing such operation. This will include lighting and brake requirements in addition to traffic rules. You may also be required to install a safety chain device on the spreader.

Check for traffic constantly. Be sure you can see that no one is attempting to pass you and that all traffic is sufficiently clear from you before making any turns.

OPTIONAL TRUCK MOUNT SPREADERS

Depending on the make and model of the truck it may be necessary to install a light converter (MEYER PART #56-0028). Converter will allow signal lights and brake lights to operate according to DOT lighting standard. Call factory for more information.

USE OF SAFETY CHAIN

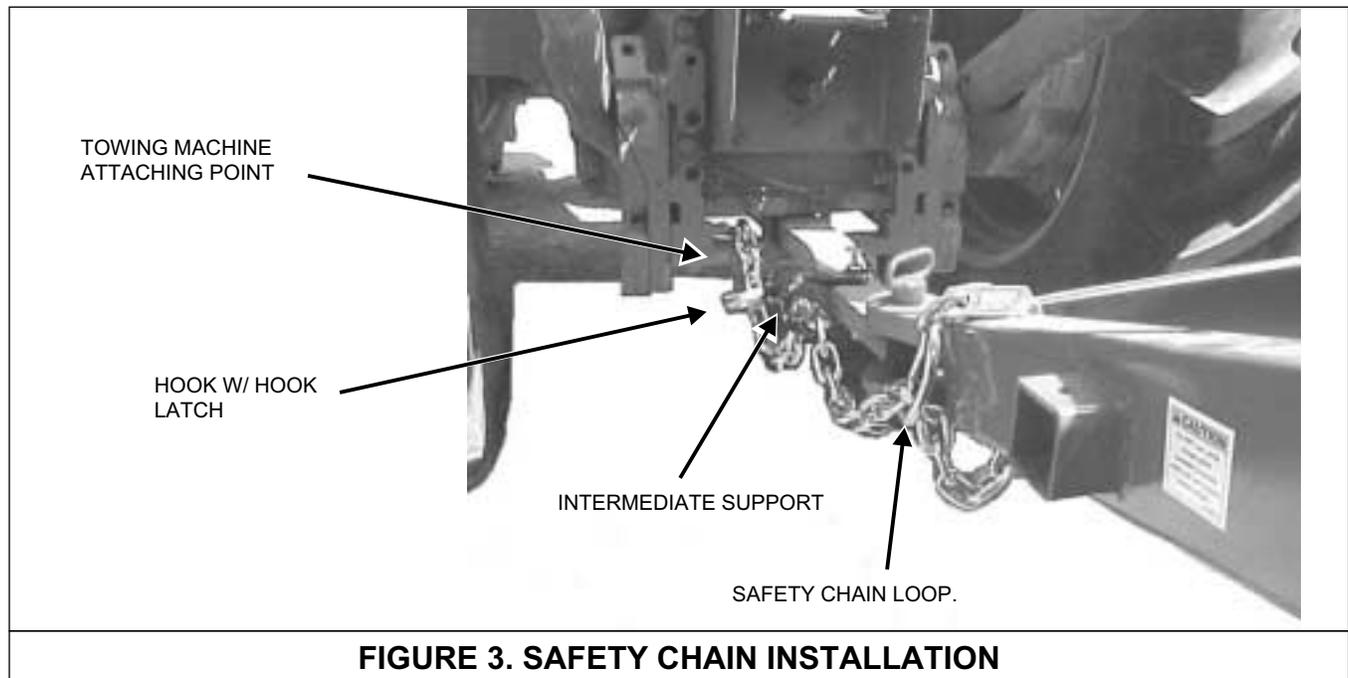
⚠️ CAUTION: A SAFETY CHAIN MUST BE INSTALLED TO RETAIN THE CONNECTION BETWEEN TRACTOR (OR OTHER TOWING VEHICLE) AND SPREADER WHENEVER TRAVELING ON PUBLIC ROADS IN CASE THE HITCH CONNECTION WOULD SEPARATE. A SUGGESTED ATTACHMENT IS ILLUSTRATED ON FIGURE 3.

The chain must be strong enough to hold the weight of the loaded spreader (See table on page 9). If using a grab hook at the end(s) of the chain to secure the chain to itself, a hook latch must be installed.

The length of the safety chain is not to be any longer than necessary to turn without interference. If any chain links or attachment hardware are broken or stretched, repair before using. Store chain so it does not corrode or become damaged. Do not use this chain for other implements because the strength and length of the chain may not be adequate. Identify this chain for use on this particular spreader. Do not use the intermediate support as the attaching point.

FREEZING WEATHER OPERATION

Allow spreader to completely empty last of manure contents and disengage tractor PTO. Shut off tractor, remove the ignition key and allow all movement to stop before attempting to clean the spreader.





WARNING: DO NOT CLEAN, ADJUST OR LUBRICATE WHILE SPREADER IS IN MOTION. FAILURE TO HEED MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.

Scrape clean any remaining manure from inside the rear of spreader. Clean all manure from ends of augers, flow control rear gate and spinners.



WARNING: MAKE CERTAIN EVERYONE IS CLEAR OF THE SPREADER BEFORE APPLYING POWER. FAILURE TO HEED MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.

Slowly engage the PTO. Operate the spreader several minutes to clean manure scrapings and to allow any remaining manure and the spreader to freeze dry. Hydraulically run the flow control rear gate up and down to clean gate slide guides. Park spreader with flow control rear gate approximately halfway open.

Before loading in freezing weather, make sure augers and spinners are free to rotate, and the flow control rear gate moves freely up and down.



DANGER: KEEP AWAY AND KEEP OTHERS CLEAR OF ROTATING SPINNERS AT REAR OF SPREADER. SERIOUS INJURY OR AMPUTATION COULD RESULT. FAILURE TO HEED MAY RESULT IN PERSONAL INJURY OR DEATH.

OPERATION

LOADING

⚠ CAUTION: TO PREVENT DAMAGE TO AUGERS, SPINNERS, AND DRIVE LINES, FOREIGN OBJECTS (STONES, CONCRETE, TIMBER, METAL OR LARGE FROZEN CHUNKS OF MANURE) SHOULD NEVER BE LOADED INTO THE SPREADER.

⚠ DANGER: NEVER ENTER THE SPREADER BOX FOR ANY REASON WITHOUT FIRST DISCONNECTING PTO SHAFT FROM TRACTOR. DO NOT ALLOW OTHERS IN THE BOX. ROTATING AUGERS CAN CRUSH AND DISMEMBER. FAILURE TO HEED MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.

⚠ CAUTION: DO NOT USE JACK EXCEPT WHEN SPREADER IS EMPTY. JACK WILL NOT SUPPORT ADDED WEIGHT. UNBALANCED WEIGHT MAY RESULT IN UNEXPECTED “TIP UP” OF SPREADER.

Before loading, especially in freezing weather, make sure the augers and spinners are free to rotate and the flow control rear gate moves freely up and down.

Check and be sure that the flow control rear gate is completely closed before loading.

When the spreader is parked for loading, shift the tractor to neutral or park and set the brakes. The moisture content of the manure will determine how full the spreader can be loaded so that no manure spills out.

You will probably be able to load solid manure at least level with the top of the box while semi-liquid and liquid manure will have to be less than full in the spreader box. It is unlawful to allow manure to splash or leak onto public roads.

A liquid manure kit is available for installation around the top of the box on your spreader which will aid in the containment of liquids.

UNLOADING

⚠ WARNING: MAKE CERTAIN EVERYONE IS CLEAR OF SPREADER BEFORE APPLYING POWER. FAILURE TO HEED MAY RESULT IN SERIOUS PERSONAL INJURY OF DEATH.

⚠ DANGER: KEEP AWAY AND KEEP OTHERS CLEAR OF ROTATING SPINNERS AT REAR OF SPREADER. SERIOUS INJURY OR AMPUTATION COULD RESULT. FAILURE TO HEED MAY RESULT IN SERIOUS PERSONAL INJURY OF DEATH.

When you are ready to begin spreading application on the field, open the hydraulic flow control rear gate and slowly engage the tractor PTO clutch. This can be done while traveling forward to avoid a heavier application of liquid manure at the edge of the field than desired.

For liquid and semi-liquid manure, the application rate can be controlled by the amount the flow control rear gate is opened. The gate indicator on the front of the box will provide a ready reference for the amount of opening. For solid manure (dry, pen-packed or manure containing long straw or hay) the flow control rear gate **MUST** be completely open since this material is not free flowing.

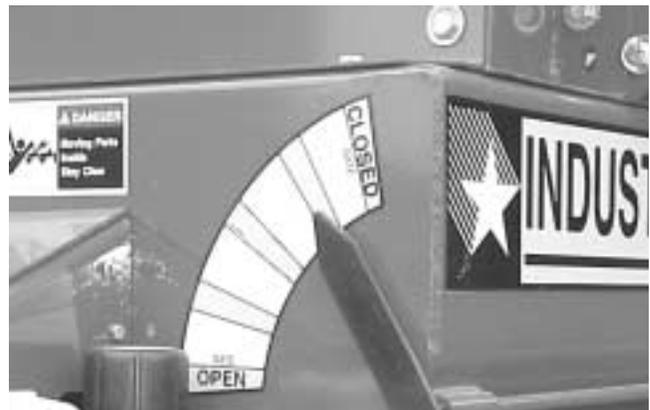


FIGURE 4. FLOW CONTROL GATE INDICATOR

VERY IMPORTANT: THIS MACHINE IS NOT INTENDED TO BE A BALE GRINDER, HAY CHOPPER OR BEDDING MACHINE. LONG HAY OR STRAW MUST CONTAIN MANURE IN ORDER TO BE SPREAD. FAILURE TO COMPLY MAY DAMAGE THE DRIVETRAIN AND VOID THE WARRANTY.

The rear spinners have been designed and tested to provide the best spread pattern for most liquids and semi solid manure. However, the pattern will vary for each specific condition. The factors that contribute most to differing patterns will be moisture content and the amount and length of bedding material. For most typical conditions, the spread pattern should be uniform and about 15 ft. wide. When this is the case, plan your spreading patterns so you do not have to travel over previously spread manure which will be slippery, resulting in poor traction. Traction on wet grass is also poor. When the resulting pattern may require that you overlap during spreading, use precautions on slopes and hills where you could experience a loss of traction by traveling over ground with previously spread manure.

NOTE: Further control of the application rate is possible by the relationship of tractor engine speed to ground speed (transmission gear selection). For optimum, trouble-free performance it is recommended to operate at or near engine PTO speed.

When the spreader is empty, idle the tractor and stop the PTO. Close the flow control rear gate.



WARNING: NEVER OPERATE PTO ABOVE ITS NORMAL 540 or 1000 RPM RATING. TRACTOR'S PTO MUST MATCH IMPLEMENT PTO.

NOTE: Failure to idle the tractor before disengaging the PTO will cause roller chain over-running and damage to the chain tighteners.

NOTE: Maximum life of the PTO shaft universal joints will result if you stop the PTO while making turns at the end of the field.



CAUTION: DO NOT EXCEED THE MAXIMUM 80° TURNING ANGLE ON THE CONSTANT VELOCITY PTO DRIVELINE. EXCEEDING THE TURNING ANGLE WILL DAMAGE THE CONSTANT VELOCITY "CENTER HOUSING" AND WILL EXERT EXCESSIVE PRESSURES ON THE PTO INPUT CENTER SHAFT AND RELATED BEARINGS.

SHEAR SPROCKET INSTRUCTIONS

The Meyer Spreader you have received has been equipped with a shear sprocket design on the main auger drive sprockets. The augers are being driven by two allen head grade 8 bolts. The design is such that if the bolts are sheared another set of holes to install new shear bolts will always be accessible without turning over the machine.

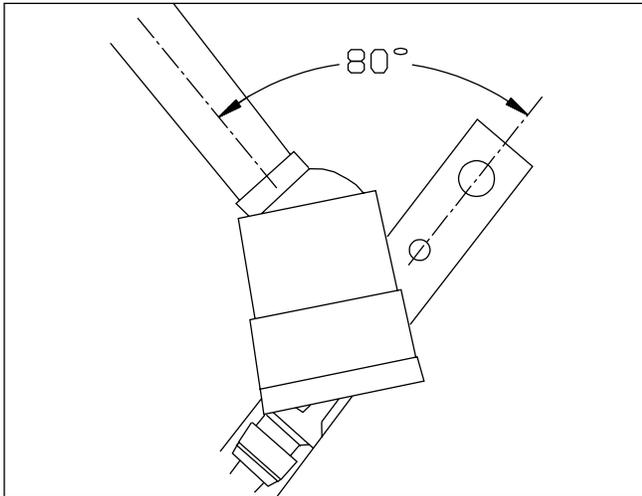


DANGER: AT NO TIME SHOULD INSTALLATION BE DONE WITH ANYONE ON THE TRACTOR. SHUT THE TRACTOR OFF, REMOVE THE KEY AND DISCONNECT THE DRIVE LINE BEFORE DOING ANY SERVICE ON THIS MACHINE. SERIOUS INJURY OR DEATH MAY OCCUR IF SAFETY IS NOT FOLLOWED.

The plate sprocket is set up with the initial drive bolts being 1/2" diameter. An extra set of holes for 7/16", 9/16" and 5/8" (dependent on age of sprocket) drive bolts are located on the sprocket if needed. If the 1/2" bolts shear, replace with the same 1/2" diameter bolts after obstruction is removed. **DO NOT JUMP UP TO THE NEXT SIZE BOLT.** Install the new bolts in the proper way as to drive off of **the head** of the bolt, not the nut.

If a second shear has happened **without obstruction** in the auger, install the next larger size shear bolt. As the shear bolt size is increased the protection on the machine is going to decrease. The potential for equipment damage is greater. Order replacement bolts and nuts from the chart below. Sizes vary depending on sprocket. Match to holes in sprocket.

Part #	Description
831-4420-1.75	7/16-20x1-3/4" Allen Head Cap Bolt
884-4420	7/16-20 Top Locknut Grade 8
831-5020-1.75	1/2-20x1-3/4" Allen Head Cap Bolt
884-5020	1/2-20 Top Locknut Grade 8
831-5618-1.75	9/16-20x1-3/4" Allen Head Cap Bolt
884-5618	9/16-20 Top Locknut Grade 8
831-6318-1.75	5/8-18x1-3/4" Allen Head Cap Bolt
884-6318	5/8-18 Top Locknut Grade 8
910-0100	140B35 Shear Sprocket Assembly Complete



STORAGE AFTER USE

⚠ WARNING: DISCONNECT PTO DRIVE SHAFT AND HYDRAULIC HOSES BEFORE CLEANING, ADJUSTING, OR SERVICING THIS MACHINE. FAILURE TO HEED MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.

Before storing this spreader for an extended period of time perform the following:

Allow the spreader to completely clean out the last load. Thoroughly hose off all manure from the outside of the spreader and the inside of the box, particularly getting the flow control rear gate mechanism clean. The wash water can be drained into your manure storage pit, or if the gate is left closed, the water can be spread on the field. After cleaning, completely lubricate the entire spreader to exclude moisture from bearings and to prevent condensation from forming during storage. See "Lubrication" pages 20 and 21.

Oil the roller chains by running the spreader at idle speed while opening the rear gate to activate the automatic oiler system. It is also a good time to inspect all adjustments and check for parts that need repair or replacement. Performing these tasks now will guarantee that the spreader is ready for use at the beginning of the next season.

PTO DRIVELINE

! WARNING: BEFORE ATTEMPTING TO OPERATE THIS SPREADER, READ AND STUDY ALL SAFETY INFORMATION. IN ADDITION, MAKE SURE THAT EVERY INDIVIDUAL WHO OPERATES OR WORKS WITH THE SPREADER, WHETHER FAMILY MEMBER OR EMPLOYEE, IS FAMILIAR WITH THESE SAFETY PRECAUTIONS.

! WARNING: DISCONNECT PTO DRIVE SHAFT AND HYDRAULIC HOSES (RELIEVE HYDRAULIC PRESSURE) BEFORE CLEANING, ADJUSTING, LUBRICATING OR SERVICING THIS SPREADER. FAILURE TO HEED MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.

The Meyer 7200 Industrial Series Spreader is equipped with a cutout type clutch on the implement half of the PTO driveline. The clutch is designed to limit the amount of torque transferred to the machine through the driveline. If excessive torque is developed the clutch will disengage. A loud ratcheting sound will be heard and the transfer of power to the machine will be disrupted. To reengage the machine simply shut down the PTO and allow the driveline to come to a stop. The PTO can then be reengaged to restart the spreader. The cutout clutch will either reengage upon shut down of the PTO or just before it comes to a complete stop.

The cutout clutch will disengage if start up is done in an abrupt or reckless manner. It also will disengage from foreign materials entering the spinner area of the spreader. It may also be possible to disengage the clutch by overloading or flooding the spinners with free flowing or liquid manure. If PTO clutch fails to reengage it will be necessary to remove the foreign object from the spreader before restarting. **THERE IS NO FIELD ADJUSTMENT ON THE CUTOUT CLUTCH.**

! DANGER: NEVER ENTER THE SPREADER BOX FOR ANY REASON WITHOUT FIRST STOPPING THE TRACTOR, SHUTTING THE TRACTOR OFF AND REMOVING THE KEY, SETTING THE PARKING BRAKE AND DISCONNECTING THE PTO DRIVELINE FROM THE TRACTOR. DO NOT ALLOW OTHERS IN THE BOX. ROTATING AUGERS CAN CRUSH AND DISMEMBER. FAILURE TO HEED MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.

DRIVELINE ATTACHMENT

The cutout clutch end of the PTO driveline must always be attached to the implement. The PTO driveline is equipped with a 1 3/8-6 spline on the implement half for attaching to the spreader. Remove the M17-hexagon bolt from the splined hub and slide the PTO onto the implement splined input shaft. Install the hexagon bolt through the hub being sure the bolt is falling into the groove on the splined shaft. Torque tight using a metric size M17 6-point socket and torque down to 75 ft. lbs. **A M17 6-POINT METRIC SOCKET MUST BE USED AS ROUNDING OF HEXAGON BOLT AND INACCURACY OF TORQUE SETTINGS COULD OCCUR.**

If removal of the M-17 hexagon bolt is necessary, use the same M-17 6-point socket and loosen bolt one turn. Insert a 1/4" drift punch in the hole on the opposite side of the hexagon bolt and tap to loosen the seated portion of the bolt from the splined hub. After bolt seat has been released, remove the bolt. If bolt is not unseated, damage to the hexagon bolt will occur.

Attach the shield safety chain to a suitable area on the spreader, preferably to the implement PTO steel shield.

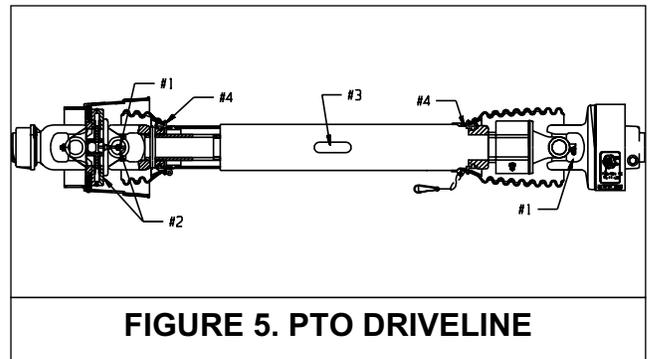


FIGURE 5. PTO DRIVELINE

PTO SETUP

! DANGER: NEVER ATTEMPT TO PERFORM ANY WORK ON THIS MACHINE FOR ANY REASON WITHOUT FIRST STOPPING THE TRACTOR, SHUTTING THE TRACTOR OFF AND REMOVING THE KEY, SETTING THE PARKING BRAKE AND DISCONNECTING THE PTO DRIVELINE FROM THE TRACTOR AND DISCONNECTING THE HYDRAULIC HOSES AND RELIEVING HYDRAULIC PRESSURE. FAILURE TO HEED MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.

Adjust the drawbar at 16-20" above the ground. Extend or shorten the drawbar so horizontal distance from end of tractor PTO shaft to center of hitch pin hole is 16" for 1000 RPM 1-3/8-21 spline, (14" for 540 RPM 1-3/8-6 spline) (20" for 1000 RPM 1-3/4-20 spline). Secure the drawbar so the hitch pin hole is located directly below the PTO driveline. PTO adapters are not recommended as damage to the driveline may occur. A hitch pin with a minimum diameter of 1-5/16" and bottom retaining pin is recommended.

AN IMPROPERLY LOCATED HITCH POINT MAY CAUSE DAMAGE TO THE UNIVERSAL JOINTS OF THE PTO DRIVE SHAFT. CONFORMING TO THE STANDARD 16" DRAWBAR (1000 RPM) AND PTO RELATIONSHIP WILL ENSURE THAT THE PTO DRIVESHAFT WILL NOT BECOME OVER EXTENDED. WITH INITIAL HOOK-UP TO YOUR NEW MEYER SPREADER TEST PTO TRAVEL BY TURNING EQUIPMENT IN BOTH DIRECTIONS OBSERVING THE MINIMUM AND MAXIMUM TRAVEL DIMENSIONS AS SHOWN PER DRAWING ON FIGURE 6.

LUBRICATION

LUBRICATION

A high quality Lithium Base Grease should be used

PRIOR TO USE

- A. Using the CV Zerk (Key #2) place 20 pumps of grease into the CV center housing. This should be done with the driveline / CV as straight as possible.
- B. Slowly articulate the double joint through its maximum joint angle several times.
- C. Return the CV joint to its straight position and insert additional grease into the CV Zerk (Key #2) until grease is evident around the housing and center sliding disk.

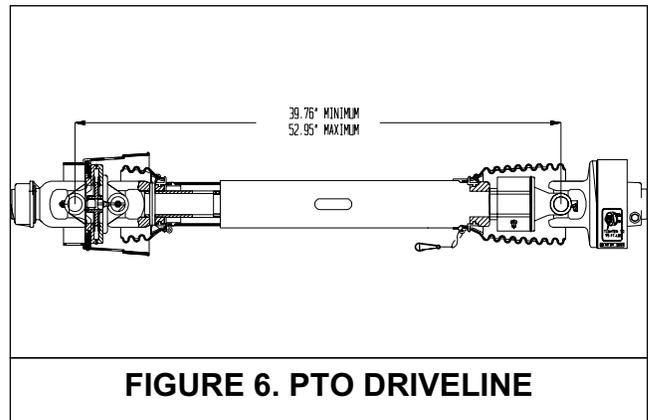
NORMAL OPERATION

- A. Lubricate the following items after every eight (8) hours of operation. If short rows and frequent turning or other demanding conditions exist, lubricate at four (4) hour intervals.
 1. Cross and bearings (Key #1)-Add grease until it is purged around the seals
 2. CV center housing (Key #2)-Add grease until it is evident around the center sliding disk.

3. Telescoping members (Key #3)-Add grease until it adequately covers the sliding members. Take apart occasionally to make sure adequate lubrication is being added.

4. Shield bearings (Key #4)-Add 2-3 pumps.

FAILURE TO FREQUENTLY GREASE THE CV CENTER HOUSING AND TELESCOPING MEMBERS WILL REDUCE THE LIFE OF THE CV.



MAINTENANCE INFORMATION

It is extremely important to follow the maintenance guidelines. If telescoping members become hard to slide during normal operation, it is recommended the shaft be taken apart, cleaned with solvent and recoated with grease before re-assembling. As a minimum it is important this be done after each season of use.

ADJUSTMENTS

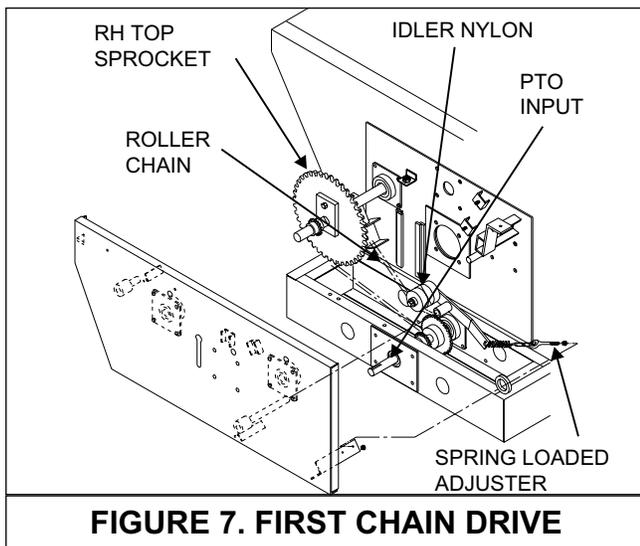


WARNING: DISCONNECT PTO DRIVE SHAFT AND HYDRAULIC HOSES (RELIEVE HYDRAULIC PRESSURE) BEFORE CLEANING, ADJUSTING, LUBRICATING OR SERVICING THIS SPREADER. FAILURE TO HEED MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.

FRONT DRIVE ROLLER CHAINS

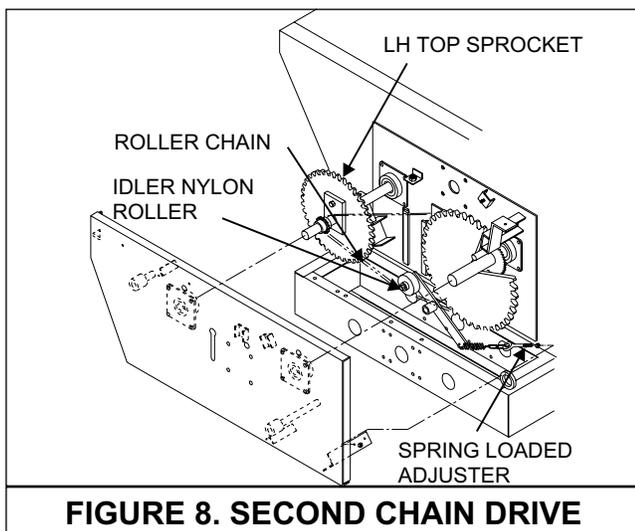
There are six roller chain drives located at the front of the spreader. Regularly check that all tensioning springs are in serviceable condition for automatic roller chain tightening. Manually adjust spring tensioners (as needed) by turning double locknuts on all tensioning bolt/idler assemblies. Proper roller chain tension is when 1/4" to 1/2" deflection occurs on the slack side of the chain. Regularly re-check all roller chain tensions. Keep all roller chains tight at all times! For clarity purposes, the following illustrations detail each roller chain reduction separately.

NOTE: The side bars of the roller chains will wear into the idler nylon rollers up to the rollers of the roller chain forming grooves. These grooves will serve as a guide when the roller chain loosens due to normal use. From this point on, after tightening, the idler nylon rollers should run for hundreds of hours without any noticeable wear.



The first chain drive (PTO input shaft to the large RH top sprocket, figure 7) is automatically tensioned by a spring loaded idler nylon roller. The extension spring should extend 2" from its neutral 5" total length.

Manual adjustment for the automatic tensioning idler, nylon roller assembly is located at the left rear of the spreader's front bearing mounting plate.



The second chain drive (large RH top sprocket to the large LH top sprocket, figure 8) is automatically tensioned by a spring loaded idler nylon roller. The extension spring should extend 2" from its neutral 5" total length.

Manual adjustment for the automatic tensioning idler, nylon roller assembly is located at the left rear of the spreader's front bearing mounting plate.

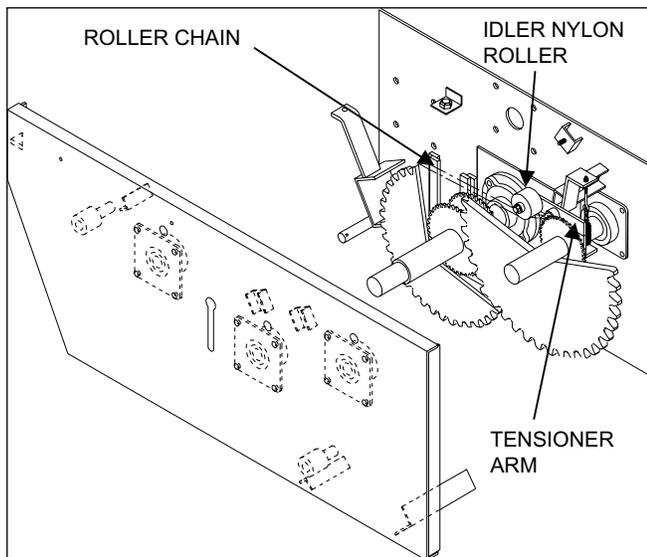


FIGURE 9 . THIRD CHAIN DRIVE

The third chain drive is automatically tensioned by a spring-loaded nylon idler roller. The extension spring should extend $3/4$ " from its neutral 4" total length. See figure 9.

Manual adjustment for the automatic tensioning idler, nylon roller assembly is located on the extended arm of the mount channel assembly.

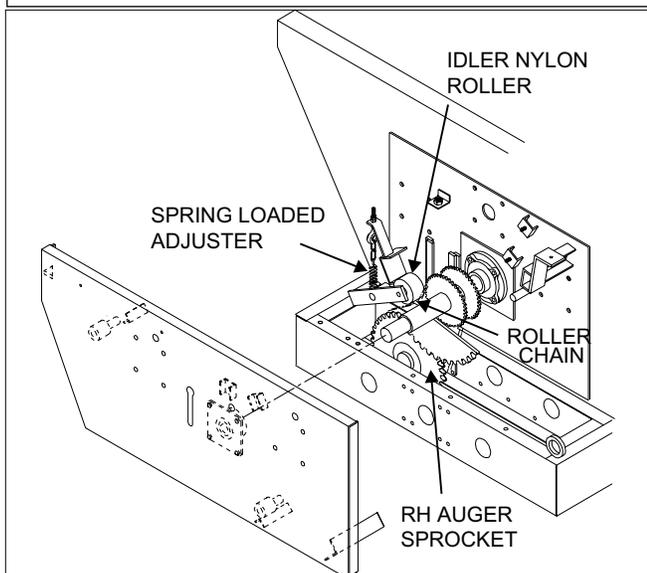


FIGURE 10. RH AUGER CHAIN DRIVE

The RH auger chain drive, figure 10, is automatically tensioned by a spring loaded idler nylon roller. The extension spring should extend $3/4$ " from its neutral 4" total length.

Manual adjustment for the automatic tensioning idler, nylon roller assembly is located at the right front lower corner of the spreader tank.

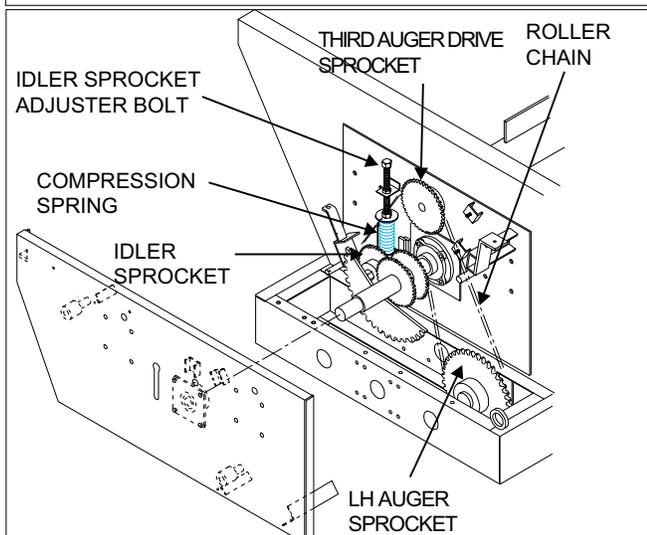


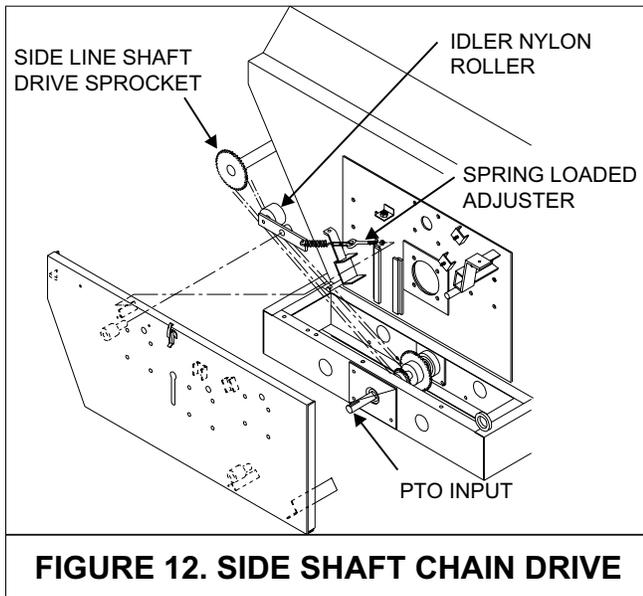
FIGURE 11. LH & THIRD AUGER CHAIN DRIVE

The LH and third auger chain drive is automatically tensioned by a spring loaded heavy compression spring and sliding idler sprocket assembly, figure 11. The heavy compression spring should be compressed to $3-1/2$ " to 4" in length.

Manual adjuster bolt for the automatic tensioning idler assembly is located at the right front upper corner of the spreader tank.

The side shaft chain drive (PTO input shaft to the side line shaft drive sprocket, figure 12) is automatically tensioned by a spring loaded idler nylon roller. The extension spring should extend 2" from its neutral 5" total length.

Manual adjustment for the automatic tensioning idler, nylon roller assembly is located at the right rear of the spreader's front bearing mounting plate.



SPINNER MATERIAL GUIDES

Regularly inspect and adjust two spinner material guides located at both the left rear and right rear of the spreader. Create a 1/4-1/2" clearance between material guides and spinner teeth, figure 13. Maintain the recommended clearances for maximum spreading pattern. Adjust to prevent excessive manure build-up on material guide inner surfaces. Adjust to prevent manure chunks or foreign object lodging between material guides and spinner teeth.

NOTE: Excessive lodging can cause premature spinner tooth wear, "bent-over" or even breakage.

SPRING LOADED MATERIAL GUIDE ADJUSTMENT

Adjustments for the 1/4-1/2" clearance of each material guide to spinner tooth is made by tightening or loosening the 1" nut on the material guide spring linkage shaft assembly. Tighten nut to increase clearance and loosen nut to decrease clearance between the material guides and spinner teeth. Once recommended clearance is obtained turn spinners over by hand in the direction by

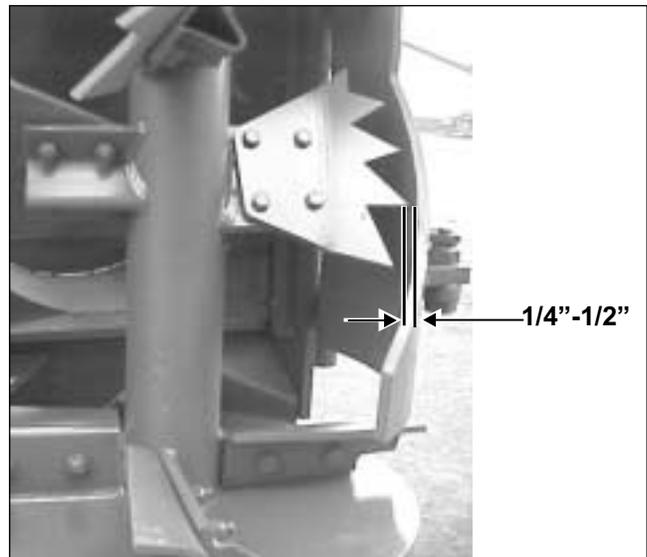


FIGURE 13. MATERIAL GUIDE CLEARANCE

which the spreader would turn to check clearance. Do not turn in the opposite direction as front chain tightener damage could occur.

SHEAR ARM MATERIAL GUIDE ADJUSTMENT

Adjustment for the 1/4-1/2" clearance of each material guide to spinner tooth is made by loosening the jam nut on the linkage arm and turning the linkage arm to either move the guide in closer or out farther from the spinner teeth. After adjustment has been made for the 1/4-1/2" clearance retighten the jam nut to hold the material guide in place. Once recommended clearance is obtained turn spinners over by hand in the direction by which the spreader would turn to check clearance. Do not turn in the opposite direction as front chain tightener damage could occur. If foreign objects enter the spinner area the front pivot bolt on the shear arm is designed to shear. The extension spring will pull the material guide away from the spinner until the shear bolt is replaced. The 1/2-13x3" grade 5 replacement machine bolts are stored on the left side plate for the gearbox mount channel. For replacement install with 1/2" flat washer on top of shear eye and on bottom of block and tighten nylon locknut firmly.

LUBRICATION



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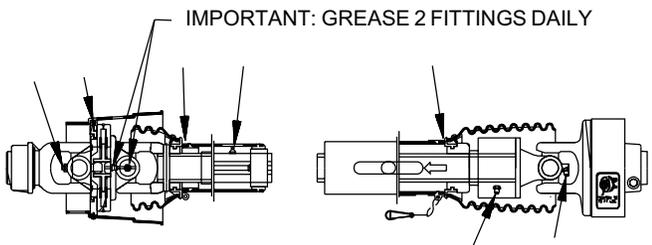
DAILY LUBRICATION (every 8-12 loads)

L1 Grease (2) rear spinner lower bearings. These bearings are grease line fitted to the LR frame channel of the spreader.

L2 Oil (6) roller chain drives with automatic oiler at the front of spreader with clean 30 weight oil. The roller chains are accessible by opening the front steel shielding cover.

L3 Grease PTO Drive line (9) places with Lithium grease every 8 hours.

L4 Grease (7) bearings supporting the three large



jack shaft reduction sprocket weldments, and the third auger drive shaft on the front drive. The zerks are accessible by the right front side grease bank and through the access holes in front plate. Be careful not to over grease.

L5 Grease (2) auger shaft bearings. These bearings are grease line fitted to the LF and RF frame channels of the spreader. Over greasing is not possible.

IMPORTANT: Check regularly for any observable lubricant leakage of the (3) gearboxes at the rear of the spreader. See L12 & L14 under *Monthly Lubrication*

WEEKLY LUBRICATION (every 25-30 loads)

L6 Grease (3) PTO input shaft bearings. These bearings are grease line fitted to the RF frame channel and the front bearing channel of the spreader.

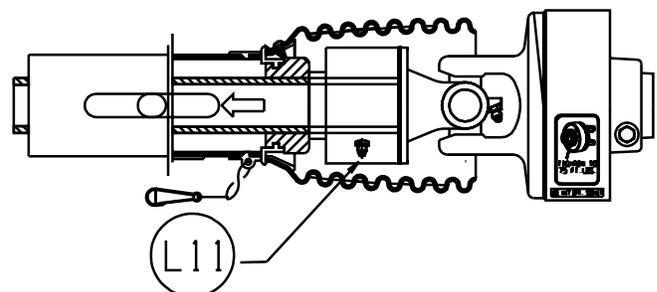
L7 Grease (5) bearings on the RH side line shaft. The front bearing is zerk accessible through the RF steel shielding. The remaining rear bearings are located along the RH side of the spreader tank, zerks accessible through the steel shielding.

L8 Grease (6) tandem wing pivots. Effectively grease by jacking up the spreader to relieve pressure points on the pivot shaft and tandem wing collar. Over greasing is not possible.

L9 Grease (1) flow control arm pivot point.

L10 Grease (2) flow control rear gate slide guides. With the flow control rear gate opened, grease the slide guides from top side. Allow grease to lubricate flow control rear gate ends and slide guide surfaces. In freezing weather dump used motor oil down each slide guide once a week or more often if needed. Over greasing is not possible.

L11 Grease (1) integral overrunning clutch at rear of the PTO drive line. The zerk is on the yoke of the cut out clutch. Use Shell Super Duty or an equivalent lithium grease.



MONTHLY LUBRICATION

L12 Maintain oil level in the corner gearbox at the centerline of the input shafts. Check regularly for any observable oil leakage. If oil leakage is excessive, replace required input/output shaft oil seals. Use ONLY EP #80-90 wt. gear lube oil or an equivalent in corner box, only Lighter weight gear lube oil may be used in temperatures lower than 20°F. Change oil in the gearboxes after the first season of use and regularly thereafter.

L13 Grease (1) brass bushing supporting the rear shaft of the 3rd auger assembly. This zerk is located on the left rear corner of the tank above the inner cross brace.

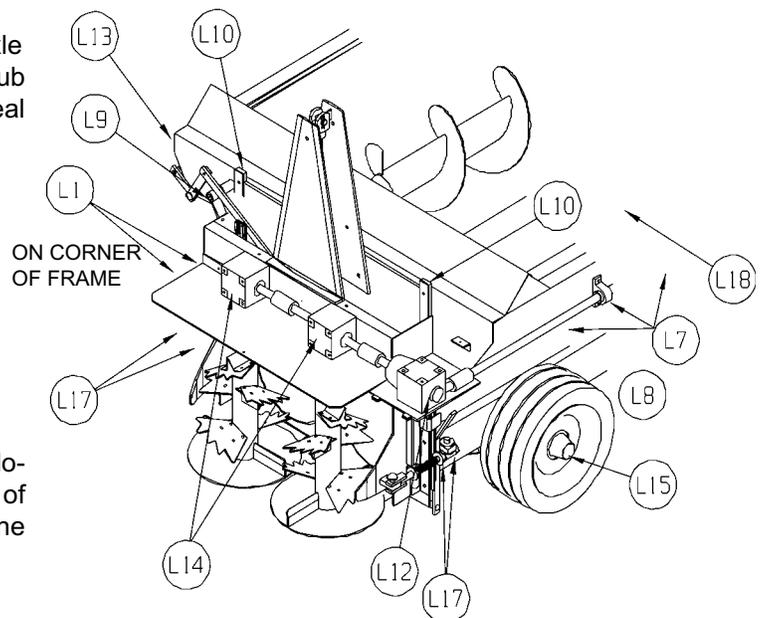
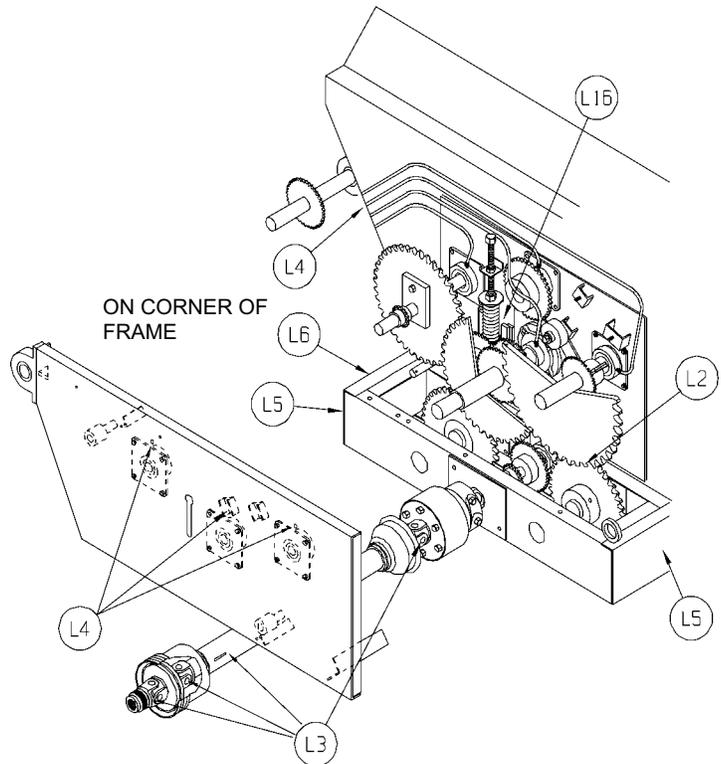
L14 Maintain the lube level in the (2) spinner gearboxes at 3/4 full. Check regularly for any observable leakage. If leakage is excessive, replace required input/output shaft seals. Lubricate with Semi-Fluid, EP Lithium Base, Gear Grease.

L15 Clean and repack the wheel hubs with axle grease annually. Grease hub through zerk in hub monthly. Be careful not to over grease and force seal out of back side of hub.

L16 Oil slides on front idler tightener assembly.

L17 Grease (4) material guide pin sleeves. (2) located on each side of the spreader.

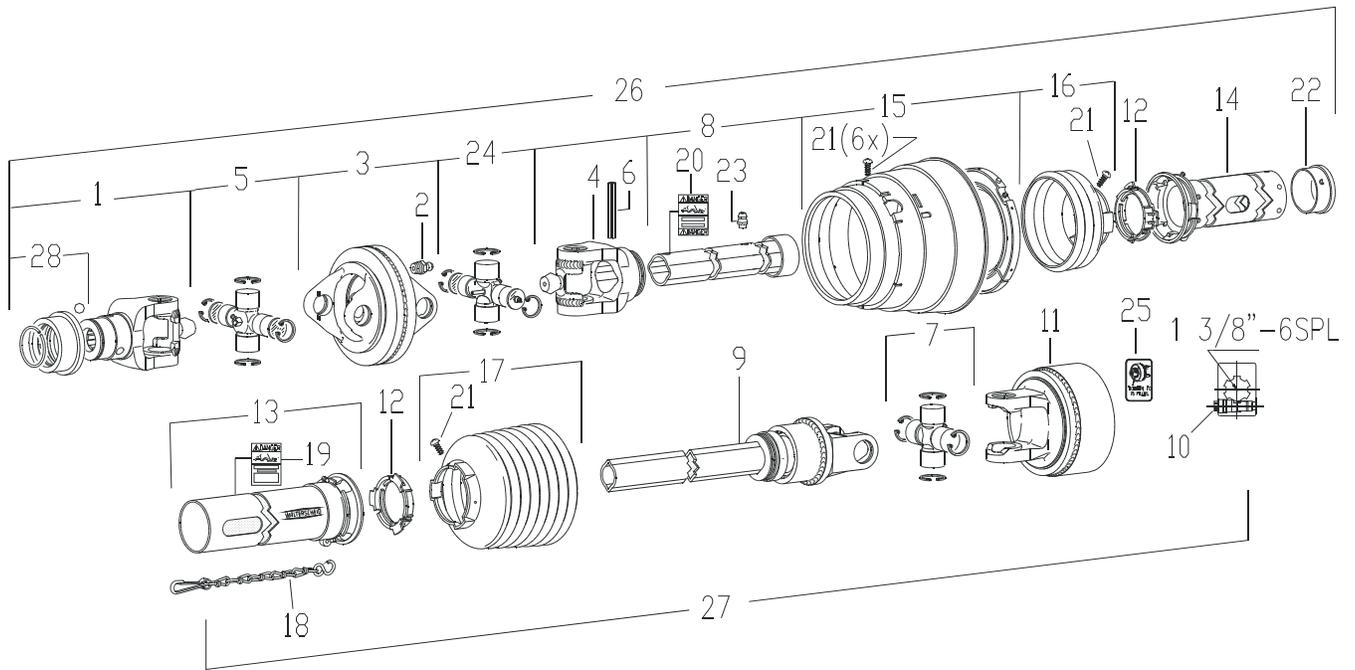
L18 Grease (2) T-post hold down sleeve zerks located above the cross channel on the underside of the spreader. A zerk is located on the front and one on the rear of the sleeve.



(SHIELDS REMOVED FOR ILLUSTRATIVE PURPOSES ONLY.)

REPAIR PARTS

918-0208 PTO DRIVE SHAFT ASSEMBLY 1000 RPM-21 SPLINE / 1-3/8" YOKE WWE2480 (80 DEGREE C.V.)

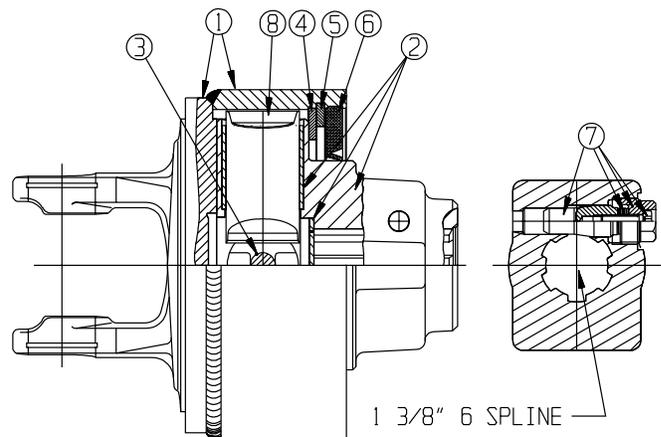


918-0208 PTO DRIVE SHAFT ASSEMBLY 1000 RPM-21 SPLINE / 1-3/8" YOKE WWE2480 (80 DEGREE C.V.)

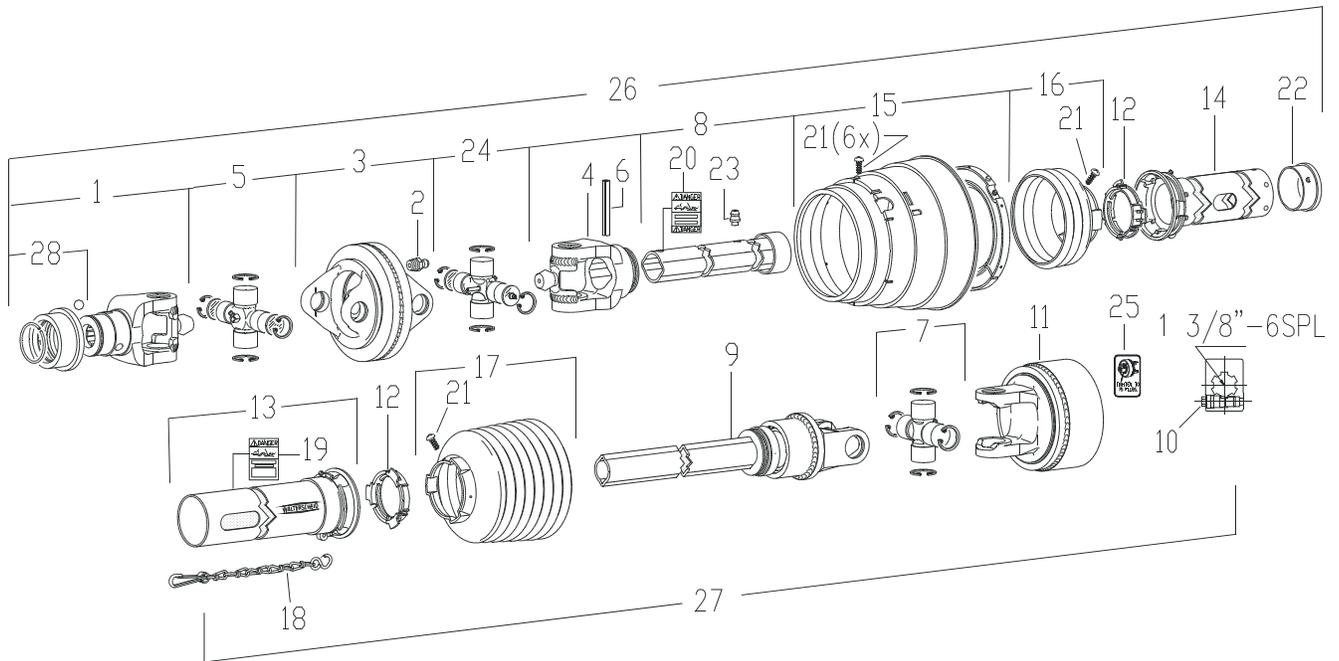
KEY	MEYER PART NO.	DESCRIPTION
1	918-0208-1-1	Yoke 1-3/8"-21 Splined Assembly
2	918-0208-1-2	Grease Zerk in item 3
3	918-0208-1-3	Double Yoke
4	918-0208-1-4	Inboard Yoke
5	918-0208-1-5	Cross and Bearing Kit
6	918-0208-1-6	Spring Pin 10 x 80
7	918-0208-2-1	Cross and Bearing Kit
8	918-0208-1-14	Profile and Sleeve Wa
9	918-0208-2-2	Overrunning Clutch & 1bGA Profile Assy.
10	918-0208-2-3-1	Clamping Cone Bolt (Included in Item 11)
11	918-0208-2-3	Cut Out Clutch
12	918-0208-2-4	Bearing Ring SC25
13	918-0208-2-5	Outer Shield Tube OVL
14	918-0208-1-7	Inner shield Tube Round
15	918-0208-1-8	CV Cone & Bearing Assy.
16	918-0208-1-9	Shield Cone 3 Rib

KEY	MEYER PART NO.	DESCRIPTION
17	918-0208-2-6	Shield Cone 8 Rib
18	918-0208-2-7	Safety Chain
19	918-0208-2-8	Decal Out-In Item 13
20	918-0208-1-10	Decal In-In Item 8
21	918-0208-2-9	Screw-In Item 15,16 & 17
22	918-0208-1-11	Support Bearing
23	918-0208-1-12	Zerk-In Item 8
24	918-0208-1-13	Cross and Bearing Kit
25	918-0208-2-10	Decal-K64
26	918-0208-1	1-3/8-21 Spline Tractor Half Assembly
27	918-0208-2	1000 RPM Cutout Clutch Implement Half Assembly
28	918-0208-1-1-1	AS-Lock Kit For Item 1 (Inc. Ring, Collar & Balls)

KEY	MEYER PART NO.	DESCRIPTION
1	918-0208-2-3-2	Housing
2	918-0208-2-3-3	Hub
3	918-0208-2-3-4	Spring Pack
4	918-0208-2-3-5	Washer
5	918-0208-2-3-6	Retaining Ring
6	918-0208-2-3-7	Sealing Ring
7	918-0208-2-3-1	Clamp Cone Assembly
8	918-0208-2-3-8	Cam
NS	918-0208-2-3-9	Bushing - In Item #2



**918-0210 PTO DRIVE SHAFT ASSEMBLY
1000 RPM-20 SPLINE / 1-3/4" YOKE WWE2480 (80 DEGREE C.V.)**

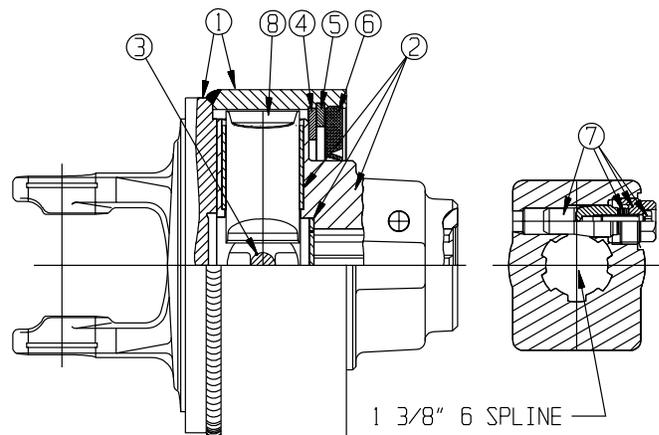


918-0210 PTO DRIVE SHAFT ASSEMBLY 1000 RPM-20 SPLINE / 1-3/4" YOKE WWE2480 (80 DEGREE C.V.)

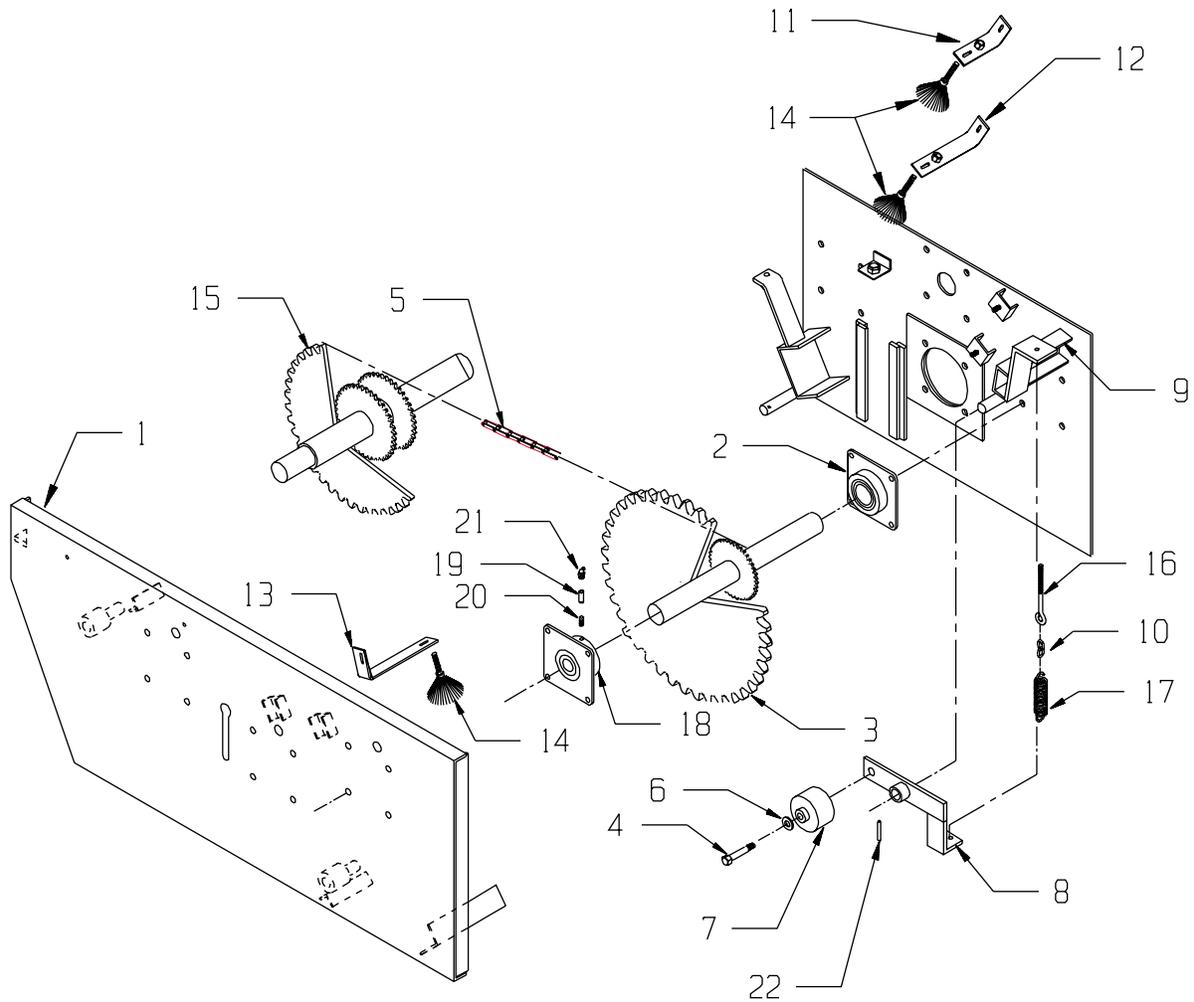
KEY	PART NO.	DESCRIPTION
1	918-0210-1-1	Yoke 1-3/4"-20 Splined Assembly
2	918-0208-1-2	Grease Zerk in item 3
3	918-0208-1-3	Double Yoke
4	918-0208-1-4	Inboard Yoke
5	918-0208-1-5	Cross and Bearing Kit
6	918-0208-1-6	Spring Pin 10 x 80
7	918-0208-2-1	Cross and Bearing Kit
8	918-0208-1-14	Profile and Sleeve Wa
9	918-0208-2-2	Overrunning Clutch & 1bGA Profile Assy.
10	918-0208-2-3-1	Clamping Cone Bolt (Included in Item 11)
11	918-0208-2-3	Cut Out Clutch
12	918-0208-2-4	Bearing Ring SC25
13	918-0208-2-5	Outer Shield Tube OVL
14	918-0208-1-7	Inner shield Tube Round
15	918-0208-1-8	CV Cone & Bearing Assy.
16	918-0208-1-9	Shield Cone 3 Rib

KEY	PART NO.	DESCRIPTION
17	918-0208-2-6	Shield Cone 8 Rib
18	918-0208-2-7	Safety Chain
19	918-0208-2-8	Decal Out-In Item 13
20	918-0208-1-10	Decal In-In Item 8
21	918-0208-2-9	Screw-In Item 15,16 & 17
22	918-0208-1-11	Support Bearing
23	918-0208-1-12	Zerk-In Item 8
24	918-0208-1-13	Cross and Bearing Kit
25	918-0208-2-10	Decal-K64
26	918-0210-1	1-3/4-20 Spline Tractor Half Assembly
27	918-0208-2	1000 RPM Cutout Clutch Implement Half Assembly
28	918-0210-1-1-1	AS-Lock Kit For Item 1 (Inc. Ring, Collar & Balls)

KEY	PART NO.	DESCRIPTION
1	918-0208-2-3-2	Housing
2	918-0208-2-3-3	Hub
3	918-0208-2-3-4	Spring Pack
4	918-0208-2-3-5	Washer
5	918-0208-2-3-6	Retaining Ring
6	918-0208-2-3-7	Sealing Ring
7	918-0208-2-3-1	Clamp Cone Assembly
8	918-0208-2-3-8	Cam
NS	918-0208-2-3-9	Bushing - In Item #2



AUGER DRIVE THIRD REDUCTION

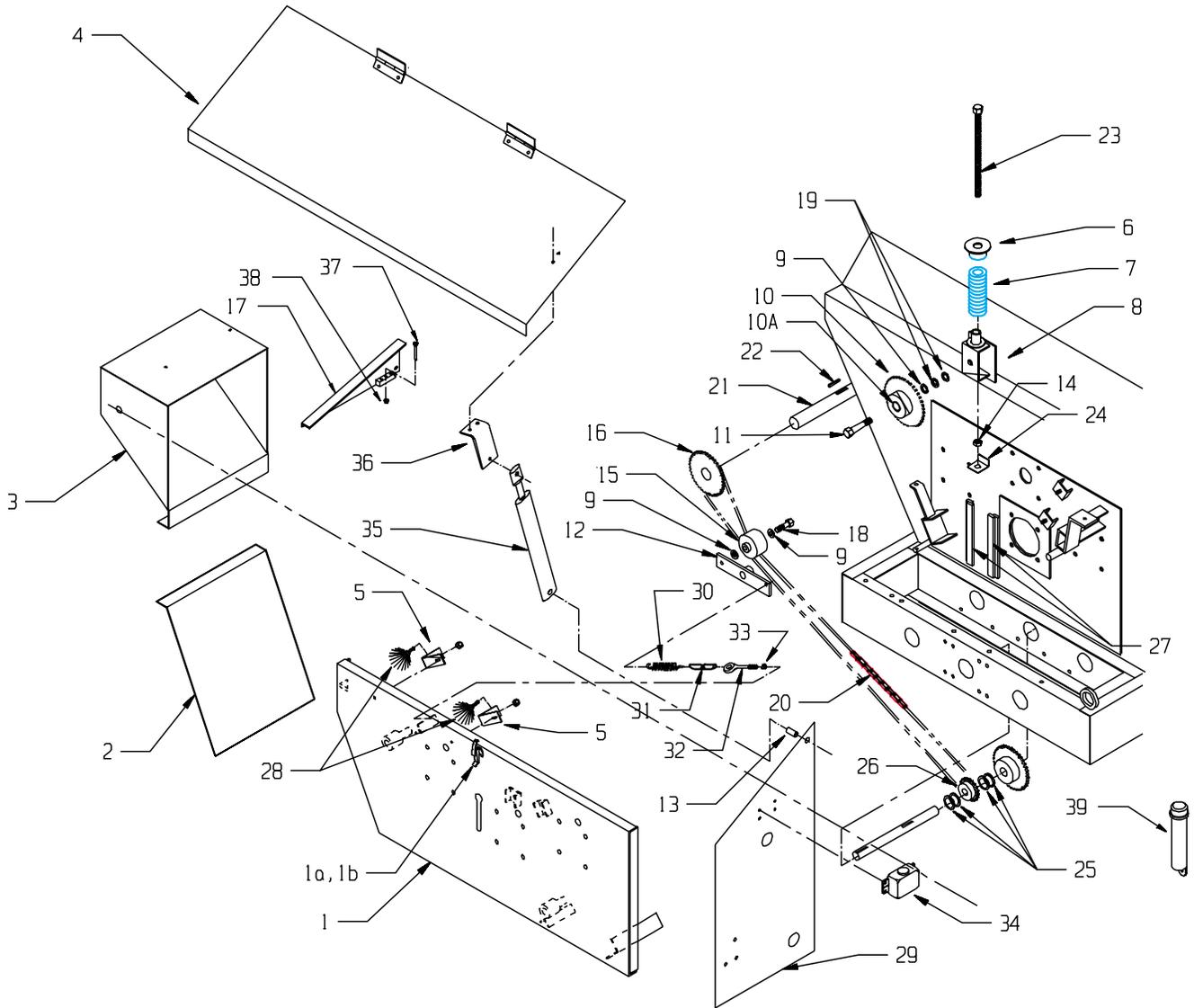


KEY	PART NO.	DESCRIPTION
1	925-3703	Front Bearing Plate Assy.
2	914-3808	2-1/4" Bearing 4-Bolt
3	910-0080	Sprocket Weldment 2-1/2" Shaft, #80/120
4	851-7510-3Z	3/4-10 x 3" Machine Bolt
5	911-0063	#120-43 Pitch Chain
6	805-0075-Z	3/4" Flat Washer Zinc
7	912-0013	2" Nylon Roller Complete
7A	912-0013-1	2" Nylon Roller Only
7B	912-0013-2	Inner Sleeve
8	925-3895-1	#120 Chain Tightener Weldment
9	925-3894-1	#120 Chain Tightener Mount Weldment

KEY	PART NO.	DESCRIPTION
10	925-3822-6	2-Chain Link For Tightener
11	952-0001-3	Oil Brush Holder
12	952-0001-4	Oil Brush Holder
13	952-0001-6	Oil Brush Holder
14	952-0001-1-25	Oiler Brush Assembly
15	910-0081	Sprocket Weldment 2-1/2", #120/140
16	933-3804	Eyebolt, 5/16 x 5" / 4" Thread Length
17	929-3601	Extension Spring
18	14-0031	2"-4 Bolt Bearing

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FRONT SHIELD & SIDE SHAFT DRIVE



FRONT SHIELD & SIDE SHAFT DRIVE

KEY	PART NO.	DESCRIPTION
1	925-3703	Front Bearing Plate Assembly
1A	32-0018-1	Heavy Duty Latch
1B	32-0018-2	Keeper Latch
2	925-3706	Right Hand Front Support
3	924-3701	Right Front Shield Assembly
4	924-3702	Front Top Cover W/Hinges & Latches
5	952-0001-3	Oil Brush Holder
6	925-3841	Outer Spring Tightener Guide
7	29-0009	Compression Spring
8	925-3719	#140 Tightener Bracket Assembly
9	808-75-1.25-14	3/4"ID x 1-1/4"OD Machine Bushing 14 Ga.
10	912-0008	#140 Reverse Idler Assembly W/Bearings
10A	910-0006-1	Bearing 3/4" ID x 2" OD (2-Required)
11	925-3719-4	3/4-10 x 3-1/2" Machine Bolt Lathed
12	925-3718	Side Shaft Tightener Arm
13	924-3702-3	Gas Shock Spacer/Hinge Sleeve
14	933-3621	3/4-10 Jam Nut
15	912-0013	2" Nylon Roller Complete
15A	912-0013-1	2" Nylon Roller Only
15B	912-0013-2	Inner Sleeve
16	910-0015	80B18 Sprocket 1-1/2" Bore, 3/8" Keyway
17	925-3705	Right Hand Top Side Support
18	851-7510-3.5Z	3/4-10 x 3-1/2" Machine Bolt Zinc
19	805-0075-Z	3/4" Flat Washer Zinc
20	911-0039	#80-107 Pitch Chain
21	923-3705	1-1/2" Front Side Shaft

KEY	PART NO.	DESCRIPTION
22	35-0010	3/8 x 3/8 x 1-1/2" Square Key
23	925-3732	#140 Chain Tightener Bolt Assembly
24	925-3731	#140 Chain Tightener Adjustment Angle
25	808-150-300-10	10 Ga. X 1.5 I.D. x 3 O.D. Machine Bushing
26	910-0036	80B24 Sprocket 1-1/2" Bore, 3/8" Keyway
27	901-3701-36	#140 Chain Tightener Slide Weldment
28	952-0001-1-25	Oiler Brush Assembly
29	925-3704	Left Hand Side Support Plate
30	929-0003	Extension Spring
31	925-3822-6	2-Chain Link for Tightener (Prior To SN SI067200252)
32	933-3804	Eyebolt, 5/16 x 5" / 4" Thread Length
33	813-3118-Z	5/16" Regular Nut
34	952-0001-1-18	Oil Reservoir Two Quart Tank
35	955-3703	Front Cover Gas Lift Assist Spring
36	925-3734	Cover Spring Mount Bracket
37	851-2520-2Z	1/4-20 x 2" Grade 5 Shear Bolt
38	815-2520-Z	1/4-20 Nylon Insert Locknut
39	33-0042	Manual Holder w/ Caps

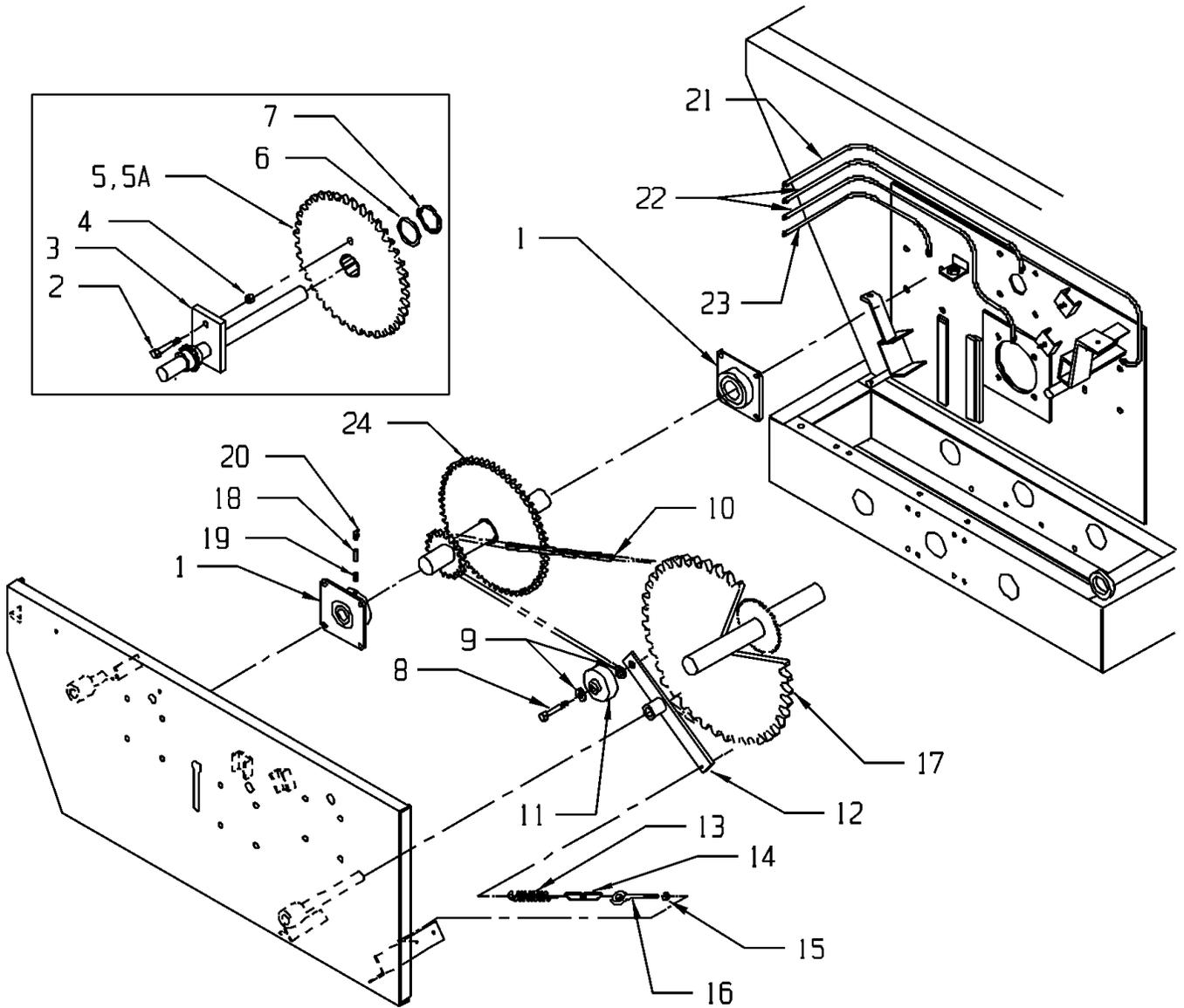
AUGER DRIVE FIRST REDUCTION

KEY	PART NO.	DESCRIPTION
1	14-0031	2" Bearing 4-Bolt
2	851-2520-2Z	1/4-20 x 2" Grade 5 Shear Bolt
3	910-0058	2" Shear Sprocket Weldment
4	815-2520-Z	1/4-20 Nylon Insert Locknut
5	910-0054	Shear Sprocket Assembly (1000 RPM)
	910-0066	Shear Sprocket Assembly (540 RPM)
5A	913-3602-2	2" I.D. x 2-1/4" O.D. x 2" Bronze Bushing
6	808-2-3-14	2" I.D. x 3" O.D. x 14 Ga. Machine Bushing
7	933-3702	2" Retaining Ring
8	925-3717-3	3/4-10 x 2" Machine Bolt - Special
9	808-.75-1.25-14	3/4" I.D. x 1-1/4" O.D. x 14 Ga. Machine Bushing
10	912-0012	1-3/8" Nylon Roller Complete
10A	912-0012-1	1-3/8" Nylon Roller Only
10B	912-0012-2	Inner Sleeve
11	925-3717	Tightener Arm Assembly (1000 RPM)
	925-3739	Tightener Arm Assembly (540 RPM)
12	38-0013	5/16 x 1-3/4" Roll Pin
13	911-0060	#80-93 Pitch Chain (1000 RPM)
	911-0061	#80-79 Pitch Chain (540 RPM)
14	929-0003	Extension Spring
15	925-3822-6	2-Chain Link For Tightener (Prior To SN SI067200252)
16	933-3804	Eyebolt, 5/16 x 5" / 4" Thread Length
17	813-3118-Z	5/16" Regular Nut
18	914-3602	1-1/2" Bearing, 4-Bolt

KEY	PART NO.	DESCRIPTION
19	910-0039	80B22 Sprocket 1-1/2" Bore, 3/8" Keyway-10 RPM Auger Speed
	910-0015	80B18 Sprocket 1-1/2" Bore, 3/8" Keyway-8 RPM Auger Speed
	910-0077	80B28 Sprocket 1-1/2" Bore, 3/8" Keyway-13 RPM Auger Speed (Standard)
	910-0036	80B24 Sprocket 1-1/2" Bore, 3/8" Keyway-11 RPM Auger Speed
20	925-3601	Front Bearing Plate
21	931-3810	CV/OR PTO Shield Assembly
22	901-3750-71	Rear Bearing Back Mount Plate
23	933-3625	Copper Tube Grease Line 55" (Includes zerks, fittings)
24	933-3627	Copper Tube Grease Line 12" (Includes zerks, fittings)
25	923-3711	1-1/2" Input Drive Shaft / Splined
26	35-0010	3/8 x 3/8 x 1-1/2" Square Key
27	933-3634	Copper Tube Grease Line 38" (Includes zerks, fittings)
28	901-3750-72	Rear Bearing End Plate Assembly
29	30-0006	1/8" NPT x 90 Degree Zerk
30	30-0009	1/8" NPT Coupler
31	30-0016	1/8" NPT Close Nipple
32	910-0090	Reduction Sprocket Weldment-Nonshear For 1000 RPM (Serial #SI067200201 & Later)
	910-0091	Reduction Sprocket Weldment-Nonshear For 540 RPM (Serial #SI067200201 & Later)

AUGER DRIVE SECOND REDUCTION

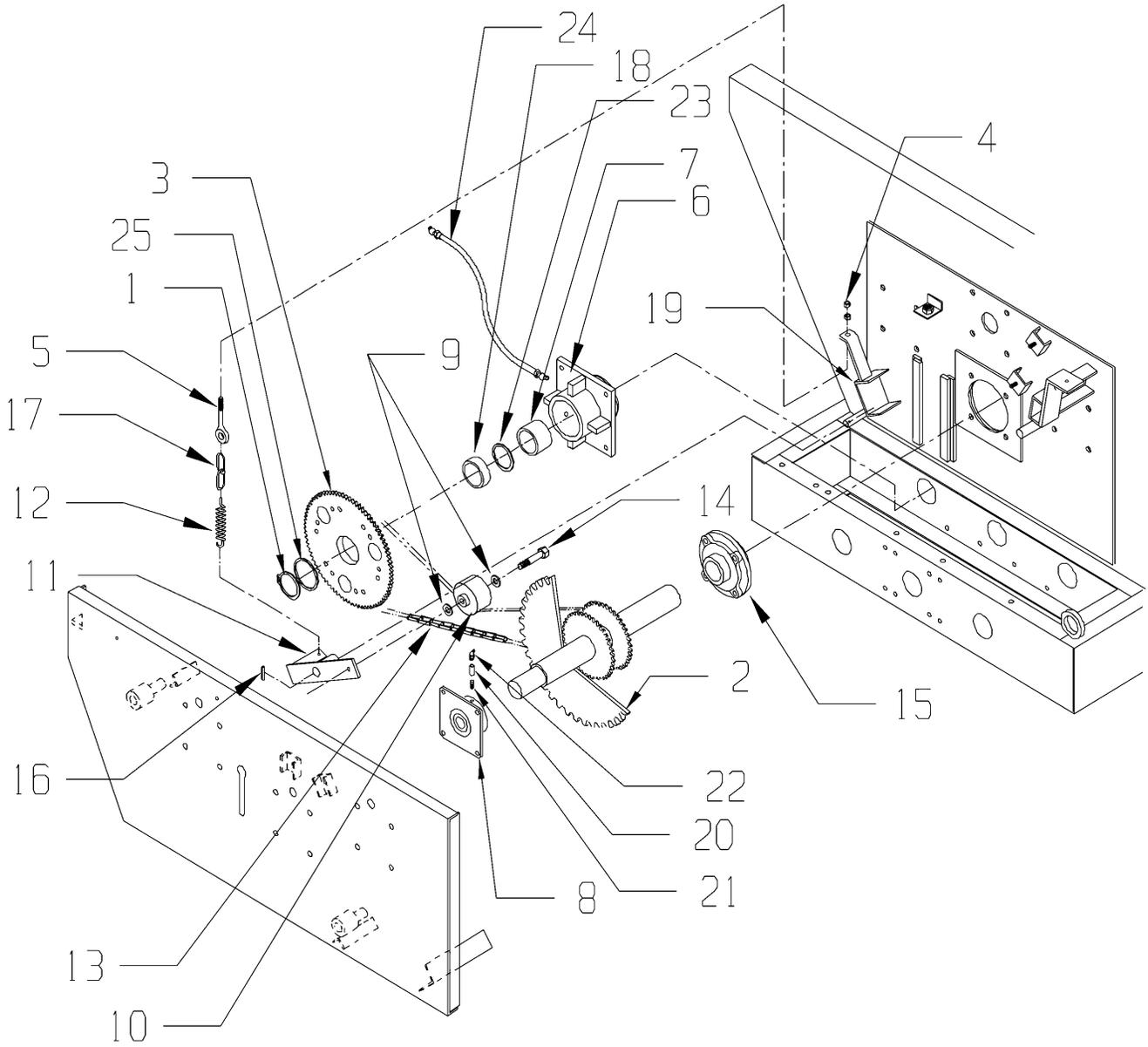
UNITS WITH SHEAR SPROCKET ASSEMBLY.
SEE FOLLOWING PAGE FOR SN'S.



AUGER DRIVE SECOND REDUCTION

KEY	PART NO.	DESCRIPTION
1	14-0031	2" Bearing 4-Bolt
2	851-2520-2Z	1/4-20 x 2" Grade 5 Shear Bolt
3	910-0058	2" Shear Sprocket Weldment
4	815-2520-Z	1/4-20 Nylon Insert Locknut
5	910-0054	Shear Sprocket Assembly (1000 RPM)
	910-0066	Shear Sprocket Assembly (540 RPM)
5A	913-3602-2	2" I.D. x 2-1/4" O.D. x 2" Bronze Bushing
6	808-2-3-14	2" I.D. x 3" O.D. x 14 Ga. Machine Bushing
7	933-3702	2" Retaining Ring
8	851-7510-3Z	3/4-10 x 3" Machine Bolt Zinc
9	808-.75-1.25-14	3/4"ID x 1-1/4"OD Machine Bushing 14 Ga.
10	911-0041	#80-91 Pitch Chain
11	912-0013	2" Nylon Roller Complete
11A	912-0013-1	2" Nylon Roller Only
11B	912-0013-2	Inner Sleeve
12	925-3720	Second Reduction Tightener Arm Assembly
13	929-0003	Extension Spring
14	925-3822-6	2-Chain Link For Tightener (Prior To SN SI067200252)
15	813-3118-Z	5/16" Regular Nut
16	933-3804	Eyebolt, 5/16 x 5" / 4" Thread Length
17	910-0080	Second Reduction Sprocket Weldment 80/120
18	30-0009	1/8" NPT Coupler
19	30-0016	1/8" NPT Close Nipple
20	30-0006	1/8" NPT x 90 Degree Zerk
21	933-3643	Copper Tube Grease Line 53" (Includes zerks, fittings)
22	933-3632	Copper Tube Grease Line 36" (Includes zerks, fittings)
23	933-3640	Copper Tube Grease Line 21" (Includes zerks, fittings)
24	910-0090	Reduction Sprocket Weldment-Nonshear For 1000 RPM (Serial #SI067200201 & Later)
	910-0091	Reduction Sprocket Weldment-Nonshear For 540 RPM (Serial #SI067200201 & Later)

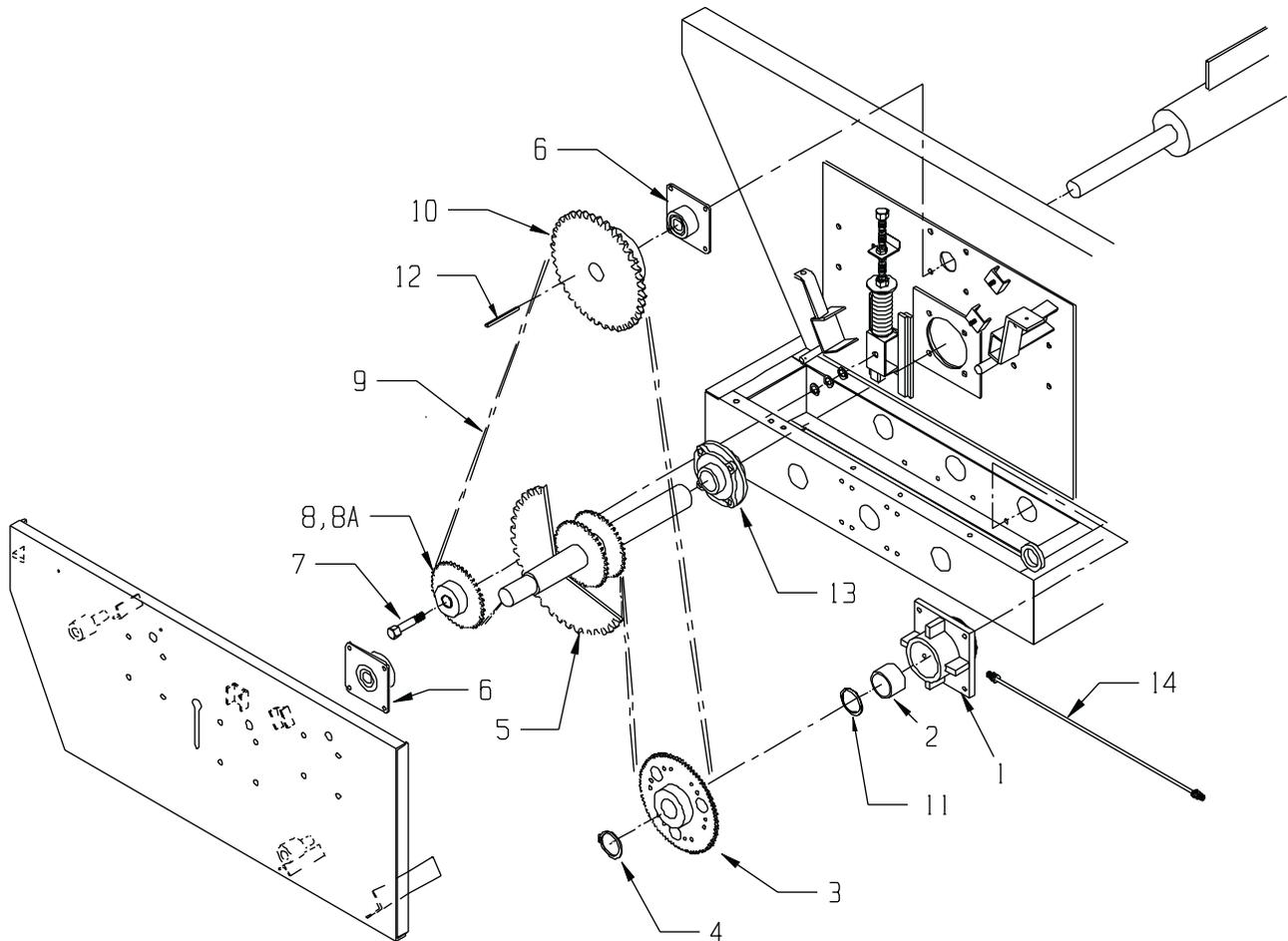
RH AUGER DRIVE FINAL REDUCTION



RH AUGER DRIVE FINAL REDUCTION

KEY	PART NO.	DESCRIPTION
1	933-3701	3" Retaining Ring
2	910-0081	2-1/2" Auger Drive Sprocket Weldment
3	910-0071-1	140B35 3" 23 Spline Auger Sprocket (Prior to Serial # SI067200201)
	910-0100	140B35 Shear Sprocket Assembly (Serial #SI067200201 & Later)
3A	831-5020-1.75	1/2-20 x 1-3/4" Allen Head Cap Screw Grade 8
3B	884-5020	1/2-20 Top Locknut Grade 8
3C	831-5618-1.75	9/16-20x1 3/4" Allen Head Cap Screw Grade 8
3D	884-5618	9/16-20 Top Locknut Grade 8
4	813-3118-Z	5/16" Regular Nut
5	933-3804	Eyebolt, 5/16 x 5" / 4" Thread Length
6	925-3766	Right/Left Auger Bushing Holder Assembly
7	913-3701	Nylon Bushing 3"ID x 4"OD x 3-3/8" Long
8	14-0031	2" Bearing 4-Bolt
9	808-.75-1.25-14	3/4"ID x 1-1/4"OD Machine Bushing 14 Ga.
10	912-0015	1-3/8" Nylon Roller Complete
10A	912-0015-1	1-3/8" Nylon Roller Only
10B	912-0015-2	Inner Sleeve
11	925-3716	#140 Right Auger Chain Tightener Bracket
12	929-3601	Extension Spring
13	911-0059	#140-46 Pitch Chain
14	851-7510-2Z	3/4-10 x 2" Machine Bolt Zinc
15	914-3807A	2-1/2" Round 4-Bolt Bearing
16	38-0013	5/16" x 1-3/4" Roll Pin
17	925-3822-6	2-Chain Link For Tightener
18	933-3710	Auger Sprocket Spacer 3.031ID x 3.5OD x 1"
19	925-3711	#140 Right Auger Chain Tightener Channel Assy.
20	30-0009	1/8" NPT Coupler
21	30-0016	1/8" NPT Close Nipple
22	30-0006	1/8" x 90 Degree Zerk
23	933-3704	Front Auger Washer Steel
24	933-3633	Copper Tube Grease Line 11" (Includes zerks, fittings)
25	933-3711	Shaft Spacer 14 GA x 3.062 x 3.500 Washer

LH AUGER DRIVE FINAL REDUCTION

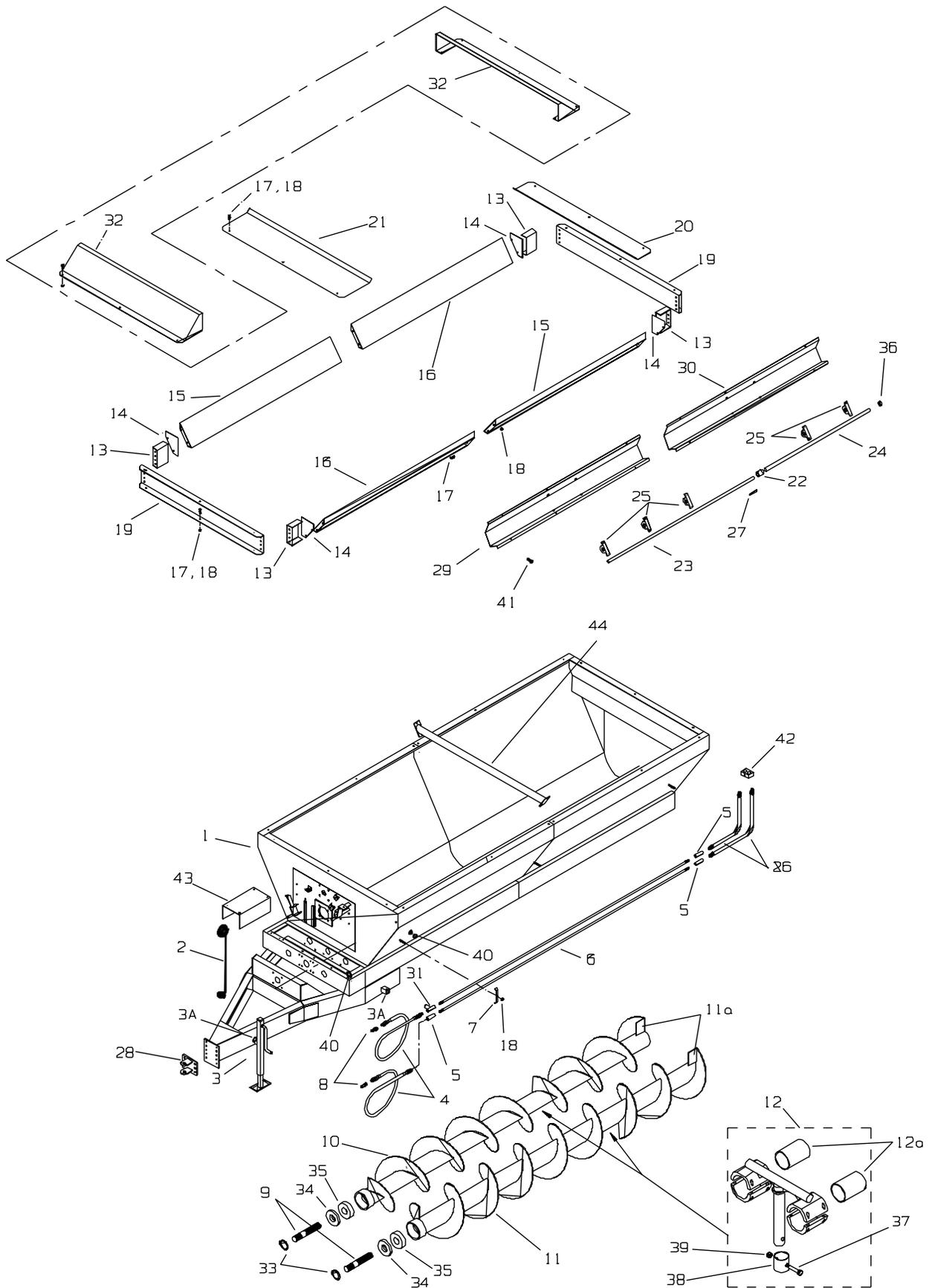


KEY	PART NO.	DESCRIPTION
1	925-3766	Right/Left Auger Bushing Holder Assembly
2	913-3701	Nylon Bushing 3"ID x 4"OD x 3-3/8" Long
3	910-0071-1	140B35 3" 23 Spline Auger Sprocket (Prior to Serial # SI067200201)
	910-0100	140B35 Shear Sprocket Assembly (Serial #SI067200201 & Later)
3A	831-5020-1.75	1/2-20 x 1-3/4" Allen Head Cap Screw Grade 8
3B	884-5020	1/2-20 Top Locknut Grade 8
3C	831-5618-1.75	9/16-20x1 3/4" Allen Head Cap Screw Grade 8
3D	884-5618	9/16-20 Top Locknut Grade 8
4	933-3701	3" Retaining Ring
5	910-0081	2-1/2" Auger Drive Sprocket Weldment
6	14-0031	2" Bearing 4-Bolt

KEY	PART NO.	DESCRIPTION
7	925-3719-4	3/4-10 x 3-1/2" Machine Bolt
8	912-0008	#140 Reverse Idler Assembly W/Bearings
8A	910-0006-1	Bearing 3/4" ID x 2" OD (2-Required)
9	911-0058	#140-74 Pitch Chain
10	910-0061	140B16 Sprocket 2" Bore, 1/2" Keyway
11	933-3704	Front Auger Washer Steel
12	35-0024	1/2 x 1/2 x 2-1/2" Square Key
13	914-3807A	2-1/2" Round 4-Bolt Bearing
14	933-3633	Copper Tube Grease Line 11" (Includes zerks, fittings)

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BOX, AUGERS & SIDE SHAFT

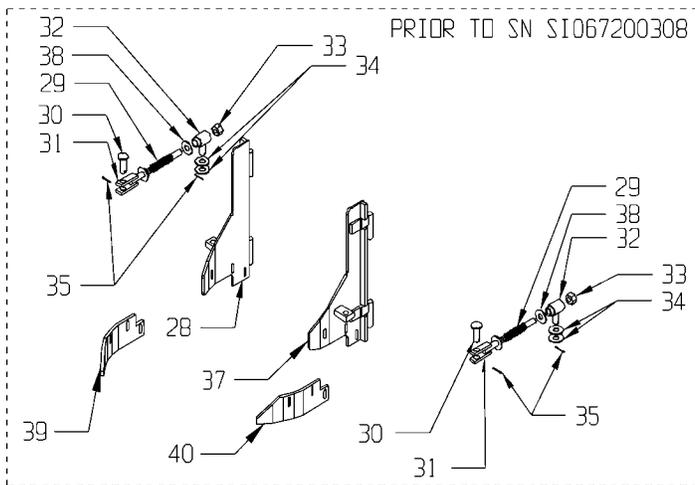
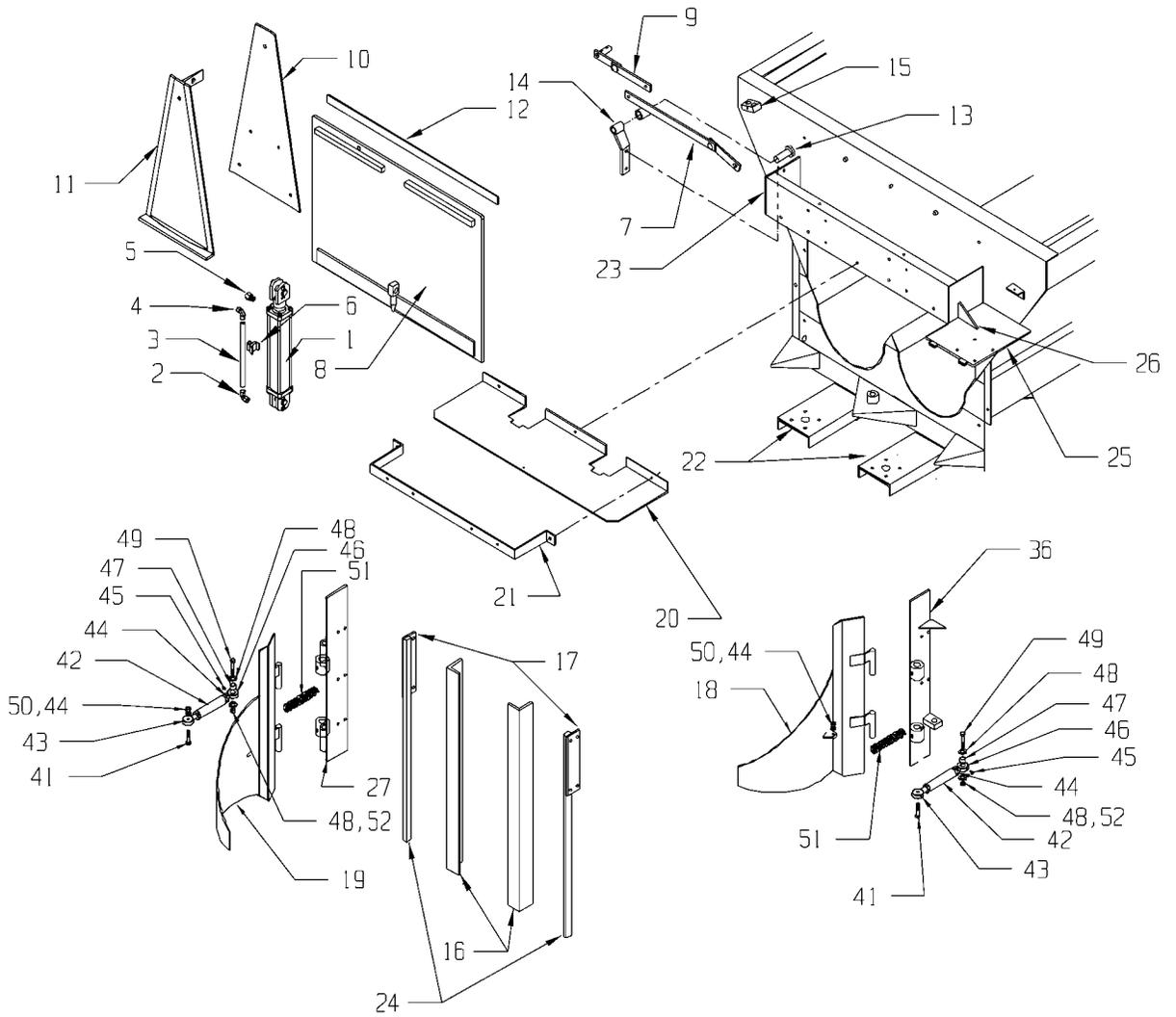


BOX, AUGERS & SIDE SHAFT

KEY	PART NO.	DESCRIPTION
1	901-3701	5570 Main Welded Body
2	929-3801	Hydraulic Hose Holder Spring
3	956-3803	Square Tube Jack
3A	956-3803-12	Jack Mount Tube
4	955-3701	Hydraulic Hose 11' Long
5	955-3609	Coupler 3/8" NPT
6	955-3702	Side Hydraulic Pipe (2-Required)
7	933-3602	Side Hydraulic Pipe Bracket Clamp
8	55-0013	Pioneer Coupler Male Tip
9	926-3701-1	Splined Auger Shaft, 23T, 3" Diameter
10	926-3705	Right Side Auger Front Bearing Style
11	926-3704	Left Side Auger Front Bearing Style
11A	926-3801-8	Rear Auger Flighting Support Gusset
12	925-3742	T-Post Auger Hold Down Assembly w/Nylon
12A	925-3771-9	Nylon Bearing (2-Per Auger)
13	901-3816-65-8	9" Extension Filler Piece
14	901-3816-65-3	Push Off Extension End Cap Filler
15	901-3816-65-6	Right Front / Left Rear Push Off Extension
16	901-3816-65-7	Left Front / Right Rear Push Off Extension
17	851-5013-1.25Z	½"-13 x 1-1/4" Machine Bolt
18	810-5013-Z	½" Flange Lock Nut
19	901-3816-30	Extension End rail
20	901-3830-5	Rear Splash Guard
21	901-3830-1	Flat Front Splash Guard, Optional
22	937-0004	1-1/2" Shaft Coupler W/4-Set Screws
23	923-3705	1-1/2" Front Side Shaft
24	923-3704	1-1/2" Rear Side shaft
25	914-3804	1-1/2" Pillow Block Bearing
26	55-0091	3/8 X 82" Hydraulic Hose
27	35-0022	3/8 x 3/8 x 4-1/2" Square Key
28	75-0074	Adjustable Hitch Plate Welded Assembly

KEY	PART NO.	DESCRIPTION
29	924-3710	Front Side Shaft Shield Assembly
30	924-3711	Rear Side Shaft Shield
31	955-3803	Black Male Pipe Tee 3/8 x 3/8 x 3/8"
32	901-3830-8	45 Degree Splash Guards, Optional On Rear
33	933-3701	3" Retaining Ring
34	914-3813	Front Auger Thrust Bearing Seal
35	914-3812	Front Auger Thrust Bearing
36	921-0005	1-1/2" Locking Set Collar
37	881-1008-5Z	1-08 X 5" Grade 8 Machine Bolt
39	884-1008	1-08 Grade 8 Top Lock Nut
40	901-3801-40	Hydraulic Hose / Scraper Holder Ring
41	803-2520-.75Z	1/4-20 x 3/4" Socket Flat Cap Screw
42	955-3754	3/4" Hose Tube Clamp
43	901-3801-59	Center Shaft Shield
44	901-3711	Cross Support Pipe W/Tab

UNLOADING GATE AND GATE INDICATOR

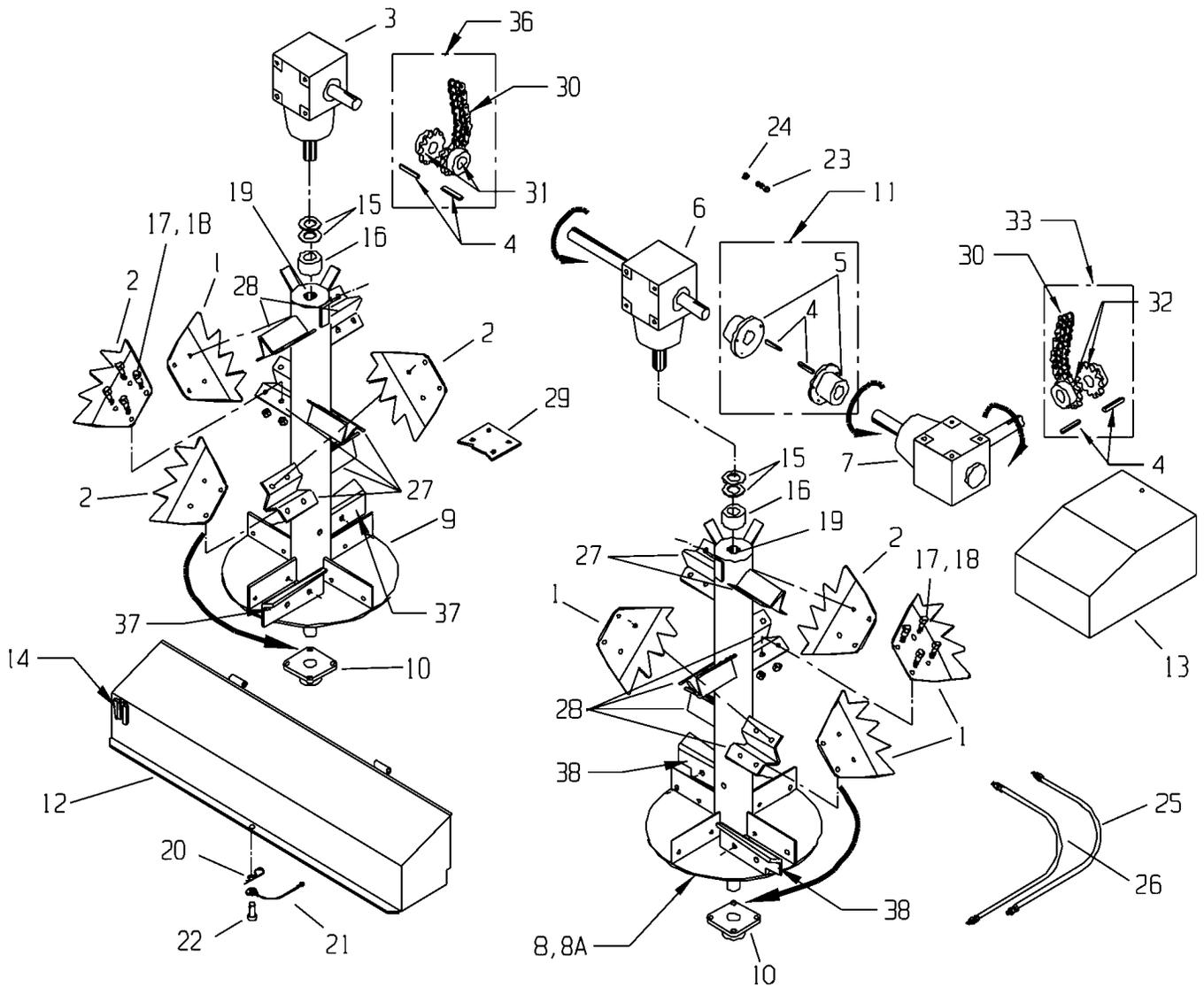


UNLOADING GATE AND GATE INDICATOR

KEY	PART NO.	DESCRIPTION
1	955-0010	Hydraulic Cylinder-Center Lift
2	55-0092	Street Elbow ½" M x 3/8" Female
3	955-0010-1	3/8 x 28" Hydraulic Pipe
4	955-3605	3/8 x 90 Degree Elbow
5	955-3802-2	½ x 3/8" Steel Hex Bushing
6	925-3754	Hydraulic Pipe Holder Weldment
7	901-3713-2	Gate Indicator Pivot Assembly
8	925-3755	Back Gate Assy.-Center Lift (Prior to Serial #SI057200201)
	925-3764	Back Gate Assy.-Center Lift w/Pin (Serial #SI057200201 & Later)
9	901-3713-3	Indicator Linkage Arm w/sleeve
10	925-3758-1	Front Cylinder Mount Plate
11	925-3757	Rear Cylinder Lift Plate Weldment
12	949-3702	Poly Gate Seal
13	925-3729	Arm Pivot Shaft Assembly
14	925-3853	Pivot Arm Support
15	955-3754	3/4" Hose Tube Clamp
16	949-3701	Back Gate Slide Poly Slick
17	901-3706-9	Upper Back Gate Guide Plate
18	925-13701-1	R. Cupped Material Guide (Serial #SI067200308 & Later)
19	925-13701-2	L. Cupped Material Guide (Serial #SI067200308 & Later)
20	925-3727	Rear Shield Mount Plate
21	925-3707	Gearbox Mount Strap
22	901-3701-20	Spinner Bearing Mount Channel
23	901-3701-13	Gearbox Mounting Channel
24	901-3706-4	Outer Gate Guide Plate
25	925-3702	Corner Gearbox Mount Plate
26	901-3853	Gearbox Mount Plate Gusset
27	925-3743-1	Left Mount Plate Assembly
28	925-3743-2	Left Material Guide Assembly (Prior to serial #SI067200308)
29	29-0009	Spring, Adjustment (Prior to serial #SI067200308)

KEY	PART NO.	DESCRIPTION
30	925-3768-2	Spring Pivot Pin Assembly (Prior to serial #SI067200308)
31	925-3768-3	Spring Shaft Assembly (Prior to serial #SI067200308)
32	925-3768-4	Spring Pivot Sleeve Assembly (Prior to serial #SI067200308)
33	815-1008-Z	1-8 Nylon Insert Locknut (Prior to serial #SI067200308)
34	805-0010-Z	1" Flat Washer Zinc (Prior to serial #SI067200308)
35	823-.18-1.25Z	3/16 x 1-1/4" Cotter Pin (Prior to serial #SI067200308)
36	925-3744-1	Right Mount Plate Assembly
37	925-3744-2	Right Material Guide Assembly (Prior to serial #SI067200308)
38	808-1.5-2.25-10	1-1/2 ID X 2-1/4 OD X 10 Ga. M.B. (Prior to serial #SI067200308)
39	901-3720-4	R.H. Adj. Material Guide (Prior to Serial #SI057200212)
40	901-3720-3	L.H. Adj. Material Guide (Prior to Serial #SI057200212)
41	75-0413-1A	Machine Bolt, Gr. 5, 1-14x4" (Serial #SI067200308 & Later)
42	925-13803	Material Guide Linkage Arm (Serial #SI067200308 & Later)
43	75-0304-1	LH Tie Rod Eye
44	75-0305-2	Jam Nut, 1-14, RH (Serial #SI067200308 & Later)
45	827-2528-.38	Set Screw, 1/4-28x3/8" (Serial #SI067200308 & Later)
46	75-0305-1	RH Tie Rod Eye (Serial #SI067200308 & Later)
47	925-13804-1	Shear Sleeve (Serial #SI067200308 & Later)
48	805-0050-Z	Flat Washer, 1/2" (Serial #SI067200308 & Later)
49	851-5013-3Z	Machine Bolt, 1/2x3" Gr. 5 (Serial #SI067200308 & Later)
50	884-1014-Z	Top Locknut, 1-14 (Serial #SI067200308 & Later)
51	929-0003	Extension Spring (Serial #SI067200308 & Later)
52	815-5013-Z	Nylon Locknut, 1/2-13 (Serial #SI067200308 & Later)

SPINNERS & GEARBOX SHAFT DRIVE

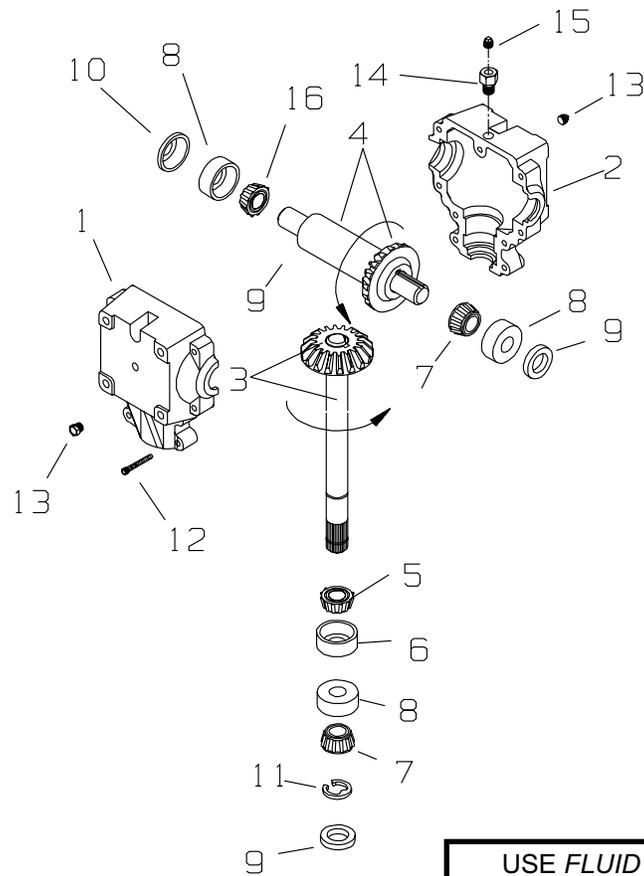


SPINNERS & GEARBOX SHAFT DRIVE

KEY	PART NO.	DESCRIPTION
1	901-3834-1	RH, 4-Point Paddle 3/8" 4/6-Per RH Spinner (Lower) 2-Per LH (Upper)
	901-3834-1-AR Optional AR400	RH, 4-Point Paddle 3/8" 4/6-Per RH Spinner (Lower) 2-Per LH (Upper) (Optional)
2	901-3835-1	LH, 4-Point Paddle 3/8" 4/6-Per LH Spinner (Lower) 2-Per RH (Upper)
	901-3835-1-AR Optional AR400	LH, 4-Point Paddle 3/8" 4/6-Per LH Spinner (Lower) 2-Per RH (Upper) (Optional)
3	19-0029	Left Spinner Gearbox
4	35-0004	3/8 x 3/8 x 2" Square Key
5	937-0005	Shaft Coupler 1-3/4" Bore, (4-Required)
6	19-0030	Right Spinner Gearbox
7	19-0036	Corner Gearbox, (1000 RPM) Standard
	19-0035	Corner Gearbox, (540 RPM) Optional
8	901-3704	R.H. Spinner Assembly Less Paddles (Prior to Ser- ial #SI067200308)
	901-3715	R.H. Spinner Assembly Less Paddles (Serial #SI067200308 & Later)
8A	901-3704-6	Bottom Spinner Shaft Only (Welded In)
9	901-3703	L.H. Spinner Assembly Less Paddles (Prior to Ser- ial #SI067200308)
	901-3714	L.H. Spinner Assembly Less Paddles (Serial #SI067200308 & Later)
10	914-3602	1-1/2" 4-Bolt Bearing
11	937-0005K	1-3/4" Coupler Assy. Kit W/Bolts & Keys
12	924-3703	Rear Main Shield Assem- bly
13	924-3704	Right Rear Gearbox Shield Assembly
14	33-1002	SMV Sign Bracket
15	808-1.75-2.5-14	1-3/4I.D. x 2-1/2O.D. x 14 Ga. M.B.
16	933-3709	Gearbox Spinner Spacer
17	851-5013-1.5Z	1/2-13 x 1-1/2" Grade 5 Ma- chine Bolt
18	815-5013-Z	1/2-13 Nylon Insert Locknut
19	901-3704-1	1-3/4" Bore x 3" Long Splined Hub

KEY	PART NO.	DESCRIPTION
20	32-0021	2" Hair Pin Clip
21	32-0022	6" Lanyard
22	32-0023	3/8 x 3/4" Clevis Pin
23	851-3824-1.5Z	3/8-24 x 1-1/2" Fine Thread Grade 5 Bolt
24	815-3824-Z	3/8-24 Nylon Insert Locknut
25	933-3632	Copper Tube Grease Line 36" (Includes zerks, fit- tings)
26	933-3625	Copper Tube Grease Line 55" (Includes zerks, fit- tings)
27	901-3834-2	Left Hand Paddle Mount Brackets
28	901-3835-2	Right Hand Paddle Mount Brackets
29	901-3704-8	Paddle Reinforcing Bracket (6 or 8-Per Spin- ner)
30	937-0009-2	Coupler Chain
31	937-0010-1	1-3/4" Chain Coupler Half
32	937-0009-1	1-1/2" Chain Coupler Half
33	937-0009	1-1/2" Chain Coupler Kit
34	901-3720-2	Left Spinner Paddle Riser (Serial #SI047200228 & Earlier)
	901-3720-5	Left Spinner Paddle Riser (Serial #SI047200229-SI0672003 07)
35	901-3720-1	Right Spinner Paddle Riser (Serial #SI047200228 & Earlier)
	901-3720-6	Right Spinner Paddle Riser (Serial #SI047200229-SI0672003 07)
36	937-0010	1-3/4" Chain Coupler Kit
37	901-13702-2	Left Cupped Lower Paddle (Serial #SI067200308 & Later)
38	901-13702-1	Right Cupped Lower Pad- dle (Serial #SI067200308 & Later)

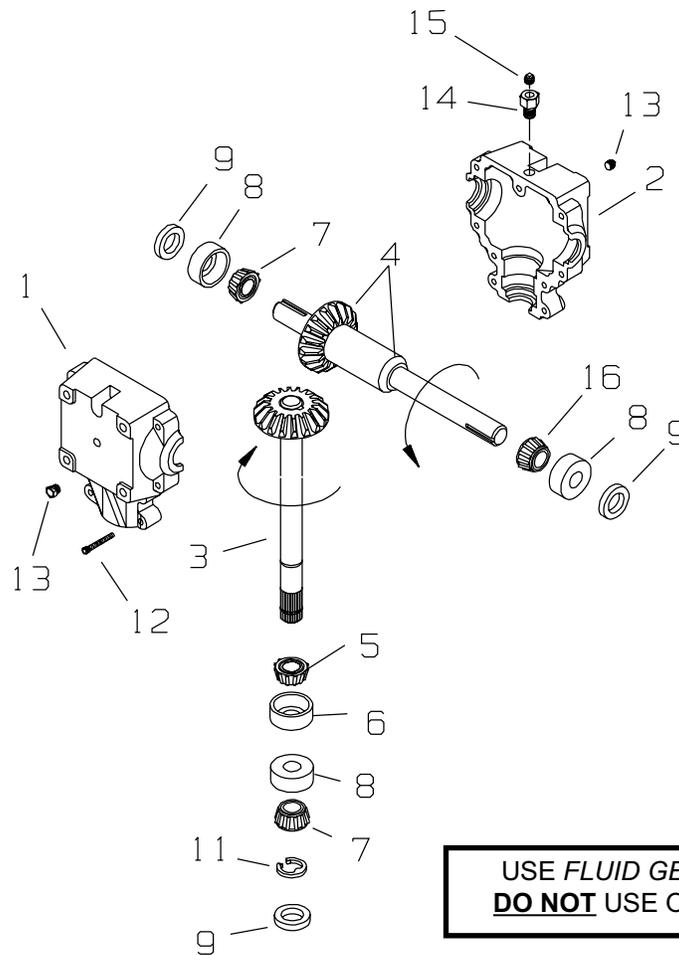
SPINNER GEAR REDUCER - LEFT HAND (1:1) #19-0029



**USE FLUID GEAR GREASE ONLY.
DO NOT USE OIL FOR LUBRICANT.**

KEY	PART NO.	DESCRIPTION
1	19-0029-2	Casting, Machined (Thru Holes)
2	19-0029-1	Casting, Machined (Tapped Holes)
3	19-0029-3	Assy, Pinion Shaft/Gear
4	19-0029-4	Assy, Cross Shaft/Gear
5	19-0029-5	Bearing Cone
6	19-0029-6	Bearing Cup
7	19-0029-7	Bearing Cone
8	19-0029-8	Bearing Cup
9	19-0029-9	Seal 1-3/4"
10	19-0029-10	End Plug, Rubber Cover
11	19-0029-11	Retaining Ring, 1.750
12	19-0016-11	Bolt, 3/8-16 x 2.250 SHCS
13	19-0016-5	Plug, 1/2 NPT
14	19-0029-14	Bushing, 1/4 NPT to 1/8 NPT
15	55-0107	Plug, Breather
16	19-0029-16	Bearing Cone

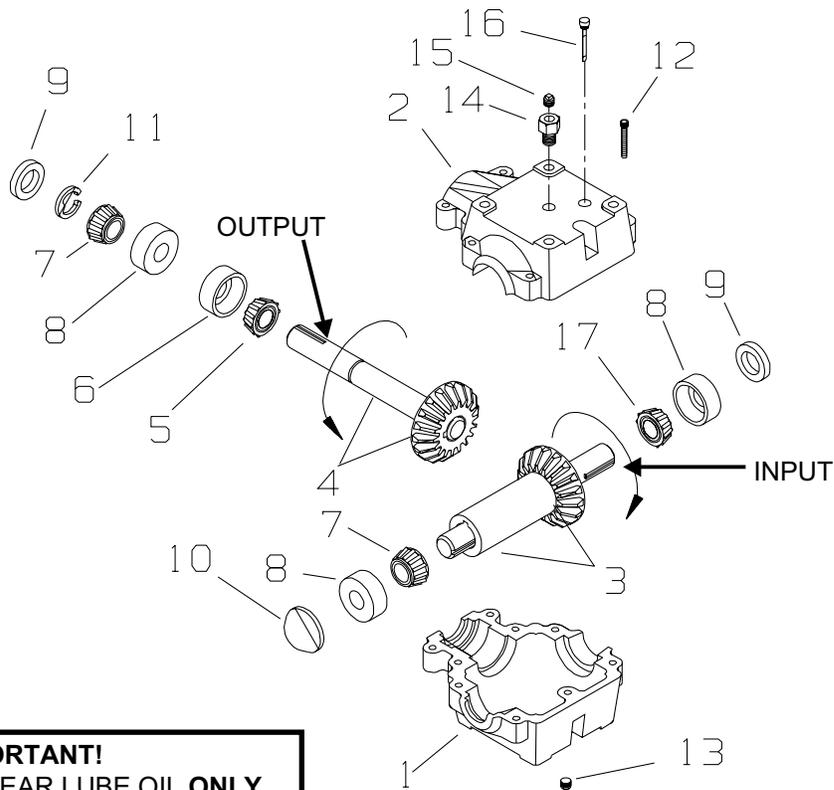
SPINNER GEAR REDUCER - CENTER (1:1) #19-0030



**USE FLUID GEAR GREASE ONLY.
DO NOT USE OIL FOR LUBRICANT.**

KEY	PART NO.	DESCRIPTION
1	19-0029-2	Casting, Machined (Thru Holes)
2	19-0029-1	Casting, Machined (Tapped Holes)
3	19-0029-3	Assy, Pinion Shaft/Gear
4	19-0030-1	Assy, Cross Shaft/Gear
5	19-0029-5	Bearing Cone
6	19-0029-6	Bearing Cup
7	19-0029-7	Bearing Cone
8	19-0029-8	Bearing Cup
9	19-0029-9	Seal 1-3/4"
11	19-0029-11	Retaining Ring, 1.750
12	19-0016-11	Bolt, 3/8-16 x 2.250 SHCS
13	19-0016-5	Plug, 1/2 NPT
14	19-0029-14	Bushing, 1/4 NPT to 1/8 NPT
15	55-0107	Plug, Breather
16	19-0029-16	Bearing Cone

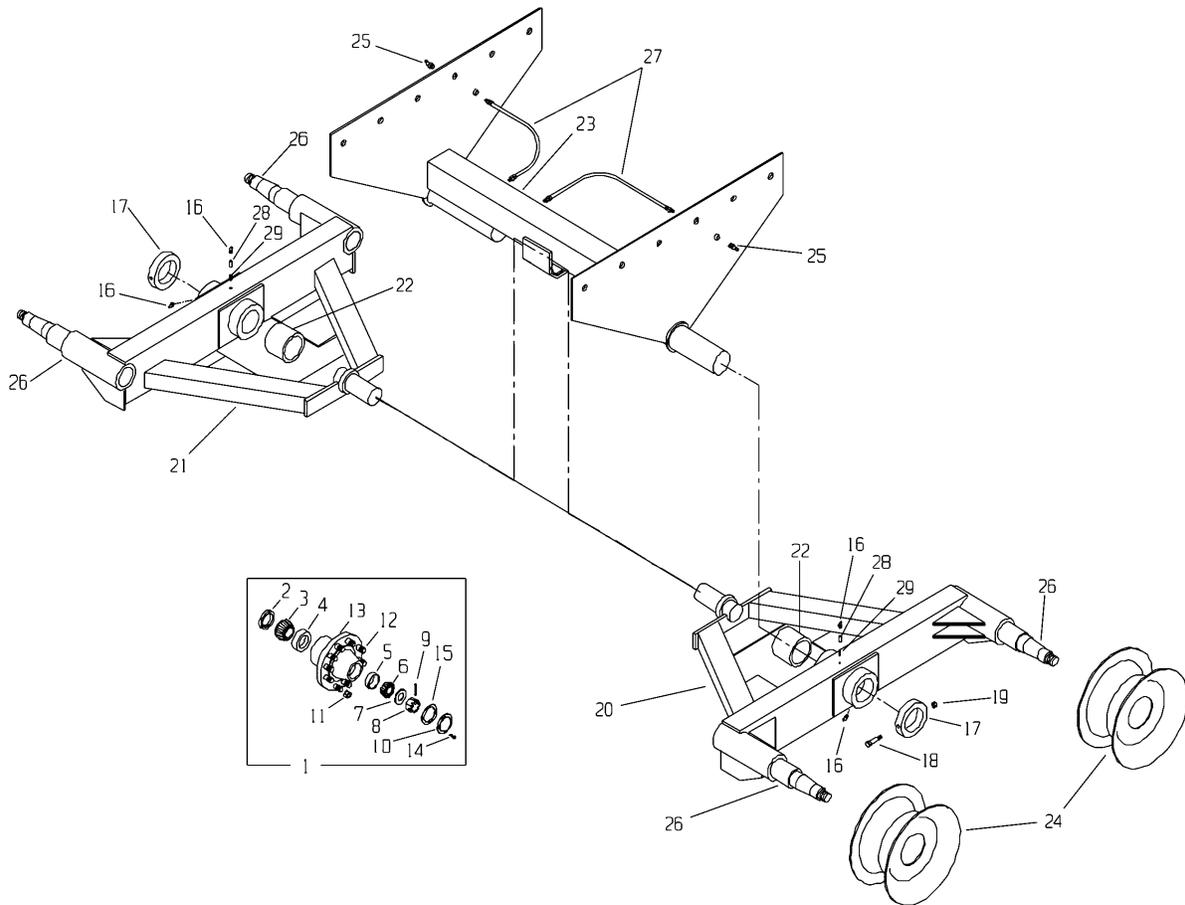
CORNER GEAR REDUCER - RIGHT HAND



IMPORTANT!
 USE #80-90 WT. GEAR LUBE OIL ONLY.
DO NOT USE GREASE FOR LUBRICANT.

KEY	1000 RPM DRIVE PART NO.	540 RPM DRIVE PART NO.	DESCRIPTION
	19-0036	19-0035	Complete Gearbox
1	19-0031-1	19-0031-1	Casting, Machined (Tapped Holes)
2	19-0031-2	19-0031-2	Casting, Machined (Thru Holes)
3	19-0036-1	19-0035-1	Assy, Cross Shaft/Gear
4	19-0031-4	19-0035-2	Assy, Pinion Shaft/Gear
5	19-0029-5	19-0029-5	Bearing Cone
6	19-0029-6	19-0029-6	Bearing Cup
7	19-0029-7	19-0029-7	Bearing Cone
8	19-0029-8	19-0029-8	Bearing Cup
9	19-0029-9	19-0029-9	Seal 1-3/4"
10	19-0029-10	19-0029-10	End Plug, Rubber Cover
11	19-0029-11	19-0029-11	Retaining Ring, 1.750
12	19-0016-11	19-0016-11	Bolt, 3/8-16 x 2.250 SHCS
13	19-0016-5	19-0016-5	Plug, 1/2 NPT
14	19-0023-2	19-0023-2	Bushing, 1/2 NPT to 1/8 NPT
15	19-0002-17	19-0002-17	Plug, Pressure Relief, 5 PSI
16	19-0031-5	19-0031-5	Dip Stick
17	19-0029-16	19-0029-16	Bearing Cone

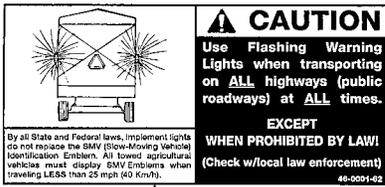
HUBS, AXLE & TANDEM ASSEMBLY



KEY	PART NO.	DESCRIPTION
1	75-0211	Hub Assembly Complete 15,000#
2	75-0211-2	Seal
3	75-0211-3	Bearing Cone
4	75-0211-4	Bearing Cup
5	75-0208-5	Bearing Cup
6	75-0208-6	Bearing Cone
7	75-0208-7	Washer
8	75-0208-8	Nut
9	75-0208-9	Cotter Pin
10	75-0208-10	Hub Cap
11	75-0208-11	Lug Nut - Flanged
12	75-0208-12	Stud Bolt
13	75-0211-1	Hub Only w/Races & Studs
14	75-0208-13	Hub Cap Bolt
15	75-0208-14	Hub Cap Gasket
16	30-0006	Zerk 1/8" NPT x 90 Degrees
17	901-3867-2	Tandem Locking Collar
18	881-5013-6.5	HHCS, 1/2-13 x 6-1/2" Gr. 8
19	814-5013-Z	1/2-13 Center Locknut
20	901-3873-3	Left O-Beam w/o Hubs
	901-3873	Left O-Beam Complete w/Hubs

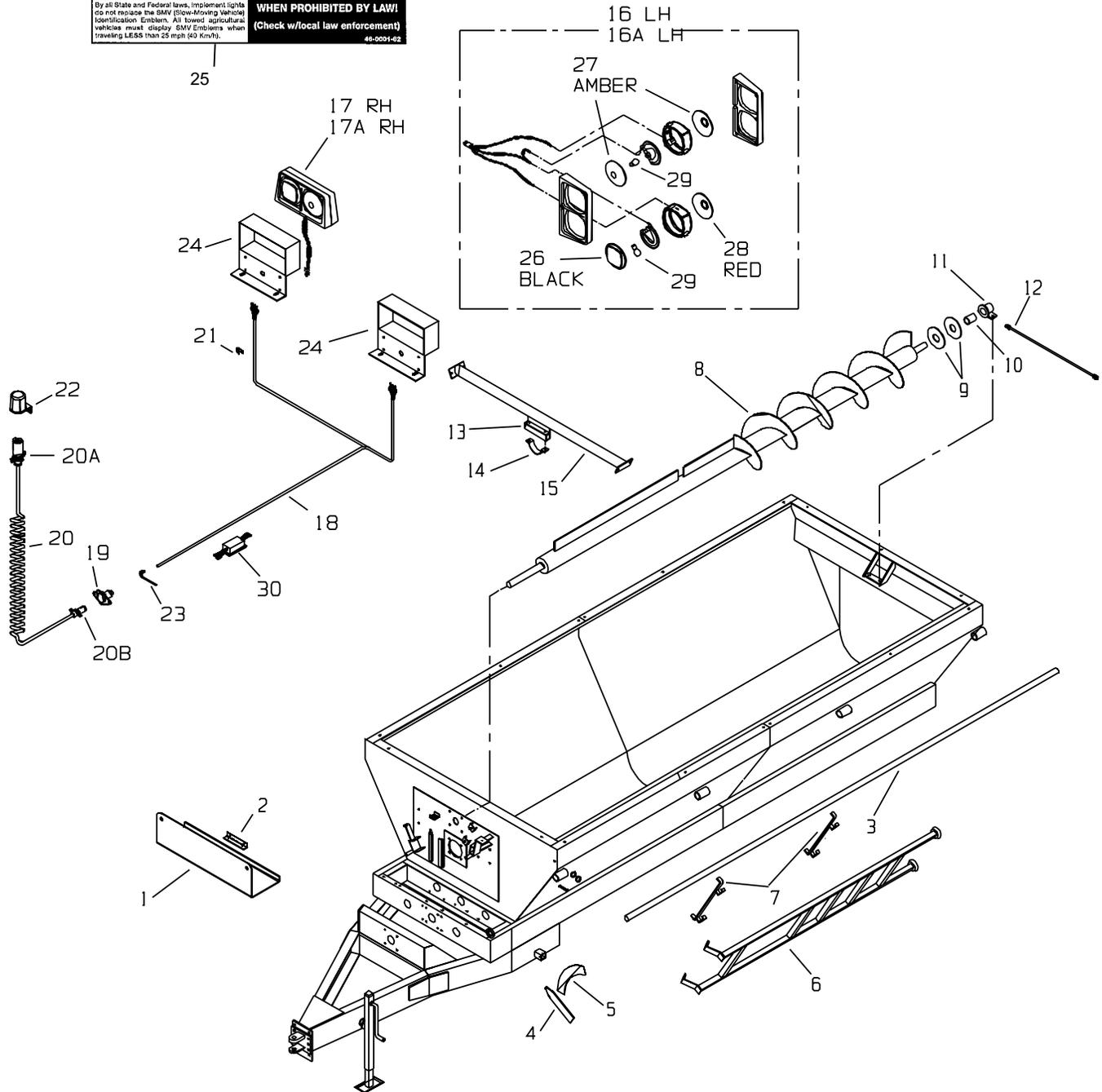
KEY	PART NO.	DESCRIPTION
21	901-3874-3	Right O-Beam w/o Hubs
	901-3874	Right O-Beam Complete w/Hubs
22	901-3864-2	Pivot Shaft Nylon Bushing
23	901-3872	Tandem Axle Assembly Only (Less O-Beams)
24	75-0269	Wheel Rim 12.25 x 22.5 x 10 Hole For Used 425/65/R22.5 Tire
	75-0270	Wheel Rim SW18C x 16.1 x 10 Hole For 21.5 x 16.1 Tire
25	30-0002	1/8" NPT Straight Zerk
26	75-0111	3-1/2" Spindle Assembly
27	933-3626	Copper Tube Grease Line 31" (Includes zerks, fittings)
28	30-0009	1/8" NPT Coupler
29	30-0008	1/8" NPT Nipple

LADDER, THIRD AUGER, GATE INDICATOR & LIGHTING



CAUTION
 Use Flashing Warning Lights when transporting on ALL highways (public roadways) at ALL times.
 EXCEPT WHEN PROHIBITED BY LAW!
 (Check w/local law enforcement)
 48-0051-02

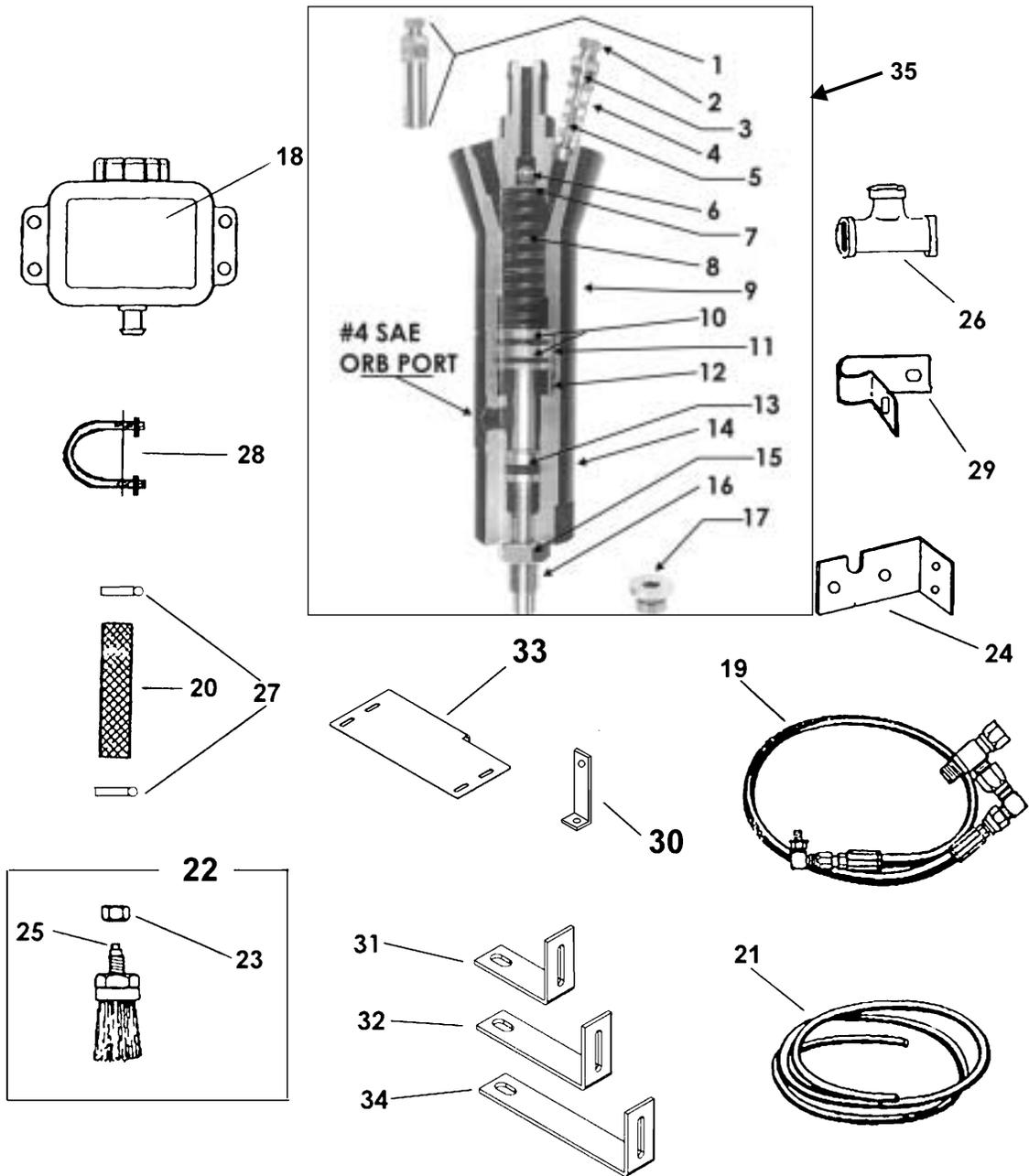
By all State and Federal laws, implement lights do not replace the SMV (Slow-Moving Vehicle) Identification Emblem. All towed agriculture vehicles must display SMV Emblems when traveling LESS than 25 mph (40 Km/h).



LADDER, THIRD AUGER, GATE INDICATOR & LIGHTING

KEY	PART NO.	DESCRIPTION
1	924-3712-1	Lower Front Dust Cover
	924-3712-1-TR	Truck Mount Front Dust Cover
2	924-3762-2	Front Dust Cover Hinge
3	901-3713-1	Gate Indicator Pipe
4	925-3762	Gate Position Indicator Pointer Assembly
5	46-7000-1	Gate Indicator Decal
6	901-3707	Ladder
7	901-3701-38	Ladder Hanger Side Brackets
8	926-3703	3rd Auger Complete
9	933-3606	Bronze Washers
10	913-3602-2	Bronze Bushing
11	925-3865	3rd Auger Bushing Assembly (Inc. #13)
12	933-3632	Copper Tube Grease Line 36" (Includes zerks, fittings)
13	901-3810-8	3rd Auger Spacer Channel
14	901-3832-2	Support Pipe Strap
15	901-3711	3rd Auger Cross Support Pipe
16	56-0001	Dual Light LH w/Tri Plug (Prior to Serial #SI067200331)
	56-0030	Dual Light LH w/4-Plug (Serial #SI067200331 & Later)
16A	56-0021	Truck Mount Dual Light LH w/Tri Plug (Prior to Serial #SI067200331)
	56-0030-TR	Truck Mount Dual Light LH w/4-Plug (Serial #SI067200331 & Later)
17	56-0002	Dual Light RH w/Tri Plug (Prior to Serial #SI067200331)
	56-0031	Dual Light RH w/4-Plug (Serial #SI067200331 & Later)
17A	56-0022	Truck Mount Dual Light RH w/Tri Plug (Prior to Serial #SI067200331)
	56-0031-TR	Truck Mount Dual Light RH w/4-Plug (Serial #SI067200331 & Later)
18	56-0003	Ag Light Harness w/Tri Plugs (Prior to Serial #SI067200331)
	56-0032	Ag Light Harness W/Module (Serial #SI067200331 & Later)
19	56-0004	#1232 4-Way Socket 4-Pin
20	56-0005	Coil Cable Assembly
20A	56-0012	7-Contact Plug End Only
20B	56-0005-1	4-Hole Plug End Only
21	56-0008	Harness Frame Clip
22	56-0009	Stor-a-way Plug Holder
23	65-0006-5	Nylon Tie Straps
24	925-3893	Right / Left Light Mount Bracket
25	46-0001-62	Caution Tail Light Decal
26	56-0001-3	Bezel Blank, Black
27	56-0001-1	Amber Lens
28	56-0001-2	Red Lens
29	56-0001-4	#1157 Bulb
30	56-0028	Tail Light Converter (Truck Mt. Only)

OIL-KIT



See Page 52 For Oiler Instructions

OIL-KIT

KEY	PART NO.	OEM PART NO.	DESCRIPTION
1	952-0001-1-1	1001-6-B	Oiler Body 6 Port Black
2	952-0001-1-2	1518-B	Adj End Cap Oil Black
3	952-0001-1-3	4511	Plunger, Brass Adj End Cap
4	952-0001-1-4	1033	Piston, 2 Groove Alum, Short
5	952-0001-1-5	1004	Spring, Oiler
6	952-0001-1-6	1006	Washer, Rubber Lube Minder
7	952-0001-1-7	5011	O Ring, Adj End Cap Plunger
8	952-0001-1-8	1008	O Ring, Oiler Piston 2-022 90 Dur
9	952-0001-1-9	1012	One Way Valve (Schrader Valve)
10	952-0001-1-10	1019	Screen Flat Oiler .906 Dia
11	952-0001-1-11	3520	Bearing, 7/16" Stainless
12	952-0001-1-12	1017	Decal, Lube Minder Body
13	952-0001-1-33	4515	Holder, Manifold Valve Assembly
14	952-0001-1-14	2511	5/32 Push In Insert (Nycoil)
15	952-0001-1-15	6002	90° Degree 1/8" St Elbow
16	952-0001-1-16	6010	1/2-20 Jam Nut
17	952-0001-1-17	2016	Bracket Oiler Mtg Pump
18	952-0001-1-18	2550	Reservoir Two Quart Tank
19	952-0001-1-19	M-4555	Hydraulic Hose Assembly Meyer Mfg.
20	952-0001-1-20	7010	Tubing 5/8" ID Clear Polybraid
21	952-0001-1-21	7012	Tubing 5/32" Nylon (Feet)
22	952-0001-1-25	4514	Brush Assembly No 5/32 Insert
22A	813-5020-Z		1/2 20 Plated Nut
24	952-0001-1-27	576895	Sleeve Nut Brass
25	952-0001-1-28	576894	5/32 Brass Ferrule
27	952-0001-1-30		1" Hose Clamp
28	952-0001-1-31	4517	U-Bolt Assembly #13
29	952-0001-1-32	219P-2	1/8" Hex Head Pipe Plug
30	952-0001-2		#80 Brush Holder
31	952-0001-3		Left #120 Auger Chain Brush Holder
32	952-0001-4		Right #120 Auger Chain Brush Holder
33	952-0001-5		Oiler Tank Mount Plate
34	952-0001-6		#80 Center Shaft Chain Brush Holder
36	955-3803		BM Pipe Tee 3/8 x 3/8 x 3/8
37	08-0050		5/16" Loom Clamp

INSTRUCTIONS FOR AUTOMATIC CHAIN OILER



WARNING: DISCONNECT PTO DRIVE SHAFT AND HYDRAULIC HOSES (RELIEVE HYDRAULIC PRESSURE) BEFORE CLEANING, ADJUSTING, LUBRICATING OR SERVICING THIS SPREADER. FAILURE TO HEED MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.

The automatic chain oiler attachment gives a squirt of clean oil to all roller chains every time that the spreaders rear gate, hydraulic cylinder is activated. In this way, the spreaders roller chains get oiled in direct proportion to the number of hydraulic cylinder cycles of the rear gate. This assures adequate lubrication.

New 30 weight oil, which is placed in the reservoir tank mounted on the spreader, is all that is needed to properly lubricate all roller chains and sprockets. The automatic chain oiler does not use any oil from the tractors hydraulic system. The hydraulic hose connected to the bottom of the oiler pump only serves to power the piston in the pump every time that the spreaders rear gate is opened.

Should the oil reservoir tank run dry, pour about a ½ cup of clean 30 weight oil into the tank. Allow time for the oil to run down into the oiler pump slowly and allow air to escape. After thirty minutes to one hour has passed, finish filling the reservoir tank. Make sure that all fittings and brackets are tight when finished filling the tank.



WARNING: HYDRAULIC FLUID ESCAPING UNDER PRESSURE CAN HAVE SUFFICIENT FORCE TO PENETRATE SKIN. KEEP ALL HOSES AND CONNECTIONS IN GOOD SERVICEABLE CONDITION. FAILURE TO HEED MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.

While running the tractors hydraulics only, open and close the spreaders rear gate several times. This will cycle the hydraulic cylinder leading to the oiler pump. Keep cycling until oil can be seen in all of the oil lines leading to the oiler brushes. (If you experience problems priming the oiler pump, you may need to bleed air out of the hydraulic hose where it is connected to the pump. Crack the fitting until oil comes out then re-tighten.) The hydraulic cylinder that the oiler pump is tied into is double acting and must reach 300 PSI of pressure to actuate the pump.

When replacing oiler brushes into brush holders, use regular ½"-20 nuts. Tighten nut finger tight initially as some adjustment may be needed later. For best results, place brush holders over top of roller chains and directly on top of sprockets. Adjust brush holders so oiler brushes are pushed down into the roller chain approximately ½". Carefully tighten up the ½"-20 nuts on the oiler brushes. DO NOT over tighten as damage to the brush will occur. The plastic threads of the oiler brush will crack and then break off from the brush body.

IMPORTANT! The 5/32" oil line tubing can only be removed from an oiler brush by pushing in on the red plastic ring and pulling the tubing out while holding the ring down.

The oiler pump is set at the factory to deliver the maximum amount of oil per cycle. If less oil is desired, loosen the jam nut on the bottom of the pump and screw in the adjusting shaft 1/4" or approximately 5 turns. It is not recommended to screw the shaft into the bottom of the oiler pump more than 15 turns as this may not allow for proper lubrication of the roller chains.

IMPORTANT! Always use new 30 weight oil. In cold weather, use a SAE 10 or a mixture of two parts of 30 weight oil to one part diesel fuel.

MEYER INDUSTRIAL SPREADER “TROUBLE SHOOTING”

	SYMPTOM	PROBLEM	SOLUTION
AUGERS	Augers shake or chatter	Stiff roller chains - dry Loose roller chains Worn sprockets/chain Dry auger trough	Lubricate roller chains Tighten roller chains Replace sprockets/chains Load auger trough w/manure
	Augers wobble/lift up & down	Worn auger shaft bushings Worn auger hold down nylon bearings	Replace auger shaft bushings Replace auger hold down nylon bearings
FLOW CONTROL GATE	Will not lift	No hydraulic supply Froze tight w/build-up	Supply hydraulic power Thaw frozen build-up
	Will not close/seal	Lodged foreign object/dirty	Remove foreign object/clean
	Sticks/binds	Dirty/dry slide guides Worn slide guides Worn out slide guide polyslick	Clean/lubricate slide guides Replace slide guides Replace slide guide polyslick
GEAR BOXES	Clunking sounds	Gears/bearings wearing Low oil or fluid gear grease	Replace gears/bearings Fill with #80-#90 wt. Gear lube oil or fluid gear grease
	Excessive oil use	Worn out oil seals Dry manure & twine wrapping	Replace oil seals Clean & remove build-up at seal areas
	Gear damage	High speed/full load start-up Worn out gears	Slow start-up, fill with oil Replace gears
MATERIAL GUIDES	Dirty/build-up	Too slow spinner RPM's	Operate spreader at recommended RPM's
PTO SHAFT	Whips/shakes	Over extended or bent PTO	Adjust tractor drawbar length - See Page 8
	Vibrates up & down	Spreader center shaft bent	Replace center shaft
	Worn Universal Joints	Lack of lubrication/used	Lubricate joints daily replace joint
ROLLER CHAINS AND SPROCKETS	Excessive chain wear	Lack of lubrication Out of alignment/loose	Lubricate/align/tighten
	Roller chain breakage	Loose roller chain Worn sprockets	Tighten roller chains Replace sprockets
	Sprocket teeth tipped over	Worn roller chain Bad roller bearings	Replace roller chain Replace bearings
SPINNERS PADDLES/ TEETH	Spinners turn hard/squeak	Bad lower spinner bearings	Replace lower spinner bearings
	Shake at high RPM's (excessive vibration)	Spinner bent/out of balance	Straighten/balance/replace spinner
	Excessive paddle damage	Wobbled out lower spinner shaft	Replace or reweld lower spinner shaft
		Too slow spinner RPM's Lodging of manure	Operate spreader at recommended RPM's Adjust material guides Straighten/replace paddles
		Spreading foreign objects	Avoid loading foreign objects

MEYER EQUIPMENT WHEEL TORQUE

BOLT/STUD SIZE	SOCKET SIZE	PRESS FORMED WHEEL CENTER	BOLT TYPE	HEAVY DUTY WHEEL CENTER
1/2	3/4	80 ft lbs	Lug Bolt	85 ft lbs
9/16	7/8	80 ft lbs	Lug Bolt	120 ft lbs
5/8	15/16 / 1-1/16	100 ft lbs	Bevel or Flange Nut	160 ft lbs
3/4	1-1/8		Flange Nut	265 ft lbs

TIRE INFLATION

TIRE SIZE	PLY	PSI
11L-15	6	28
11L-15	8	36
11L-15	10	44
11L-15	12	52
12.5L-15	8	36
12.5L-15	10	44
12.5L-15	12	52
14L-16.1	8	32
14L-16.1	12	52
16.5L-16.1	8	28
16.5L-16.1	10	36
21.5L-16.1	10	36
21.5L-16.1	14	40
11R/22.5	used truck	75
425/65x22.5	used truck	75

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MEYER INDUSTRIAL SPREADER “SPECIFICATIONS”

Standard Equipment Specifications		
	Model 7200	
Bushels	550 (no ht. ext.)	720 (with ht. ext.)
Gallon	2630	3492
Cubic Foot	350	466
Weight	10,975 lbs	11,445 lbs.
Overall Height w/21.5L Tire	81" (No ht. ext.)	98 ½" (with ht. ext.)
Tank Length	18'	
Overall Width w/21.5L Tire	110"	
Main Drive Chain	#140	
Tank Steel - copper bearing	1/4"	
Frame construction (channel)	8"	
Spindle Size	3 ½" Sleeved	
Hub Size	10 Bolt 15,000 lbs.	
Expeller Size	24"	
Expeller Speed	690 RPM Standard	
Auger Speed	13 RPM Standard	
Tractor PTO Speed (Max.)	1000 or 540 RPM	
Auger Diameter	20"	
Overall Length	26'5"	
Automatic Oiler	Standard	
3rd Auger (tough pen manure)	Standard	

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

MEMBER



Manufactured by:
Meyer Mfg. Corp.

County Hwy. A West
P.O. Box 405
Dorchester, Wisconsin 54425-0405
Phone 715-654-5132 FAX 715-654-5513
1-800-325-9103



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