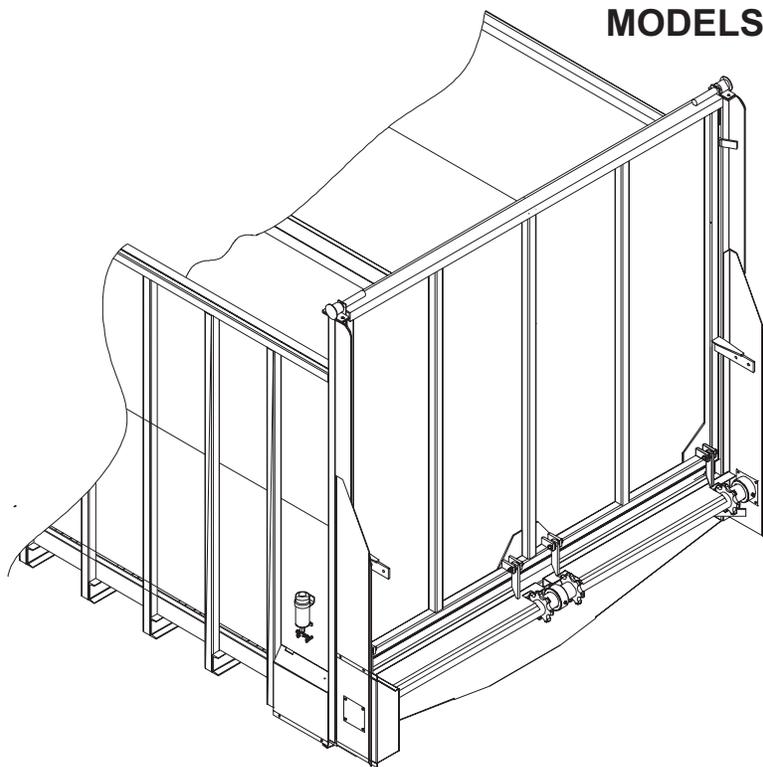


OPERATORS AND PARTS MANUAL NO. 02-05-8100  
FOR  
8100 SERIES

# MEYER

“BOSS”  
REAR UNLOAD FORAGE BOX



MODELS: 8118  
8120  
8122  
8124

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

MEMBER



Over  
**60 years**  
of service  
to our customers

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  
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## NEW MEYER REAR UNLOAD FORAGE BOX 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 Forage Boxes shall apply only to the original retail customer from an authorized Meyer Mfg. Corp. dealership.
- II. This warranty shall not apply to any Meyer Forage Box 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 Forage Boxes 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 Forage Box 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.
    2. Without charge for parts only during the second (2) 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:
    1. Any part of the following which is defective in material or workmanship (not neglect to recommended use and service) without charge for parts only (not labor) during the stated time periods from date of purchase to the original retail customer:

Five (5) Years: The D667XH pintle main apron chain assembly.
    2. Any part of the following which is defective in material or workmanship (not neglect to recommended use and service) with a "pro-rated" charge for parts only (not labor) during the stated time period from date of purchase to the original retail customer:

Ten (10) Years: a. The all welded steel frame box structure.
- 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 forage box 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

Optional Equipment-Tarp, scales etc. warranty-See original equipment warranty.

# INTRODUCTION

Congratulations on your purchase of a new Meyer Rear Unload Forage Box. 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.

The Model 8100 is available as a truck mounted unit or mounted to a wagon running gear pulled and powered by a farm tractor. When the PTO is referred to, it means power takeoff from the truck or from the tractor, whichever applies. If you have a wagon model, the PTO drive is by a rotating drive shaft connecting the tractor PTO to the forage box drive line. This is referred to as the PTO drive shaft. The PTO drive shaft is connected to the tractor for unloading, and disconnected and placed in a storage bracket when traveling and filling the forage box.

The Model 8100 may be referred to as rear unload box, forage box, box or rear unload forage box in this manual.



This SAFETY ALERT SYMBOL means ATTENTION! BE CAREFUL! YOUR SAFETY IS INVOLVED! It stresses an attitude of HEADS UP FOR SAFETY. When you see this symbol, be alert to the possibility of PERSONAL INJURY and carefully read the message that follows.



**WARNING: NEVER OPERATE WITHOUT ALL COVERS, SHIELDS AND GUARDS IN PLACE. KEEP HANDS, FEET AND CLOTHING AWAY FROM MOVING PARTS. SOME COVERS AND GUARDS HAVE BEEN REMOVED FOR ILLUSTRATIVE PURPOSES ONLY IN THIS MANUAL. FAILURE TO HEED MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.**

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.

Sincerely,

All Employees of  
MEYER MANUFACTURING CORPORATION

Meyer Manufacturing Corporation 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 Manufacturing 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 Forage Box by your dealer and the manufacturer when ordering repair parts. The serial number is stamped in the front upright of the left-hand side.

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 forage box 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 box.

You are urged to study this manual and follow the instructions carefully. Your efforts will be repaid in better operation and service as well as a savings in time and repair expense. Failure to read this manual and understand the machine could lead to serious injury. If you do not understand instructions in this manual, contact either your dealer or Meyer Manufacturing Corp. at Dorchester, WI 54425.

# 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 FORAGE BOX, READ AND STUDY THE FOLLOWING SAFETY INFORMATION. IN ADDITION, MAKE SURE THAT EVERY INDIVIDUAL WHO OPERATES OR WORKS WITH THE FORAGE BOX, WHETHER FAMILY MEMBER OR EMPLOYEE, IS FAMILIAR WITH THESE SAFETY PRECAUTIONS.**

Require anyone who will operate this forage box to read and completely understand this owner's manual. Give necessary instructions.

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

DO NOT allow minors (children) or inexperienced persons to operate this forage box.

DO NOT clean, adjust or lubricate while the forage box is in motion.

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

Know how to stop operation of the forage box before starting it!

DO NOT operate until all shields and guards are in place and securely fastened.

Make certain everyone is clear of the forage box before applying power.

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

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.

Always install a SMV emblem on forage box for transporting on roadways and keep this emblem clean and bright.

DO NOT step up on any part of the forage box at any time. DO NOT use the PTO guard as a step.

Keep the forage box away from power lines. Contact with electric lines may result in serious injury or death by electrocution!

## **There are additional Safety precautions associated with Truck mounted units:**

If the forage box becomes clogged, shut off the truck, set park brake, remove keys, keep keys in your possession, and allow all mechanism to stop. Then, clean or work on the forage box as required.

Always shut off the truck, remove keys, keep keys in your possession to prevent accidental startup or unexpected movement before working on forage box.

## **There are additional Safety precautions associated with Tractor towed units:**

If the forage box becomes clogged, shut off the tractor engine and allow all mechanisms to stop. Disconnect PTO shaft. Then, clean or work on the forage box as required.

Always shut off power and disconnect PTO shaft from tractor to prevent accidental startup or unexpected movement before working on forage box.

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 damaged or missing shields.

Never operate PTO above normal 540 RPM rating. Never connect forage box PTO shaft to a 1000 RPM tractor PTO.

Use only properly rated running gear and tires.

DO NOT tow at speeds in excess of 20 MPH when transporting this forage box. Never exceed a safe travel speed.

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 FORAGE BOX ITSELF WARN YOU OF DANGERS AND MUST BE READ AND OBSERVED CLOSELY!

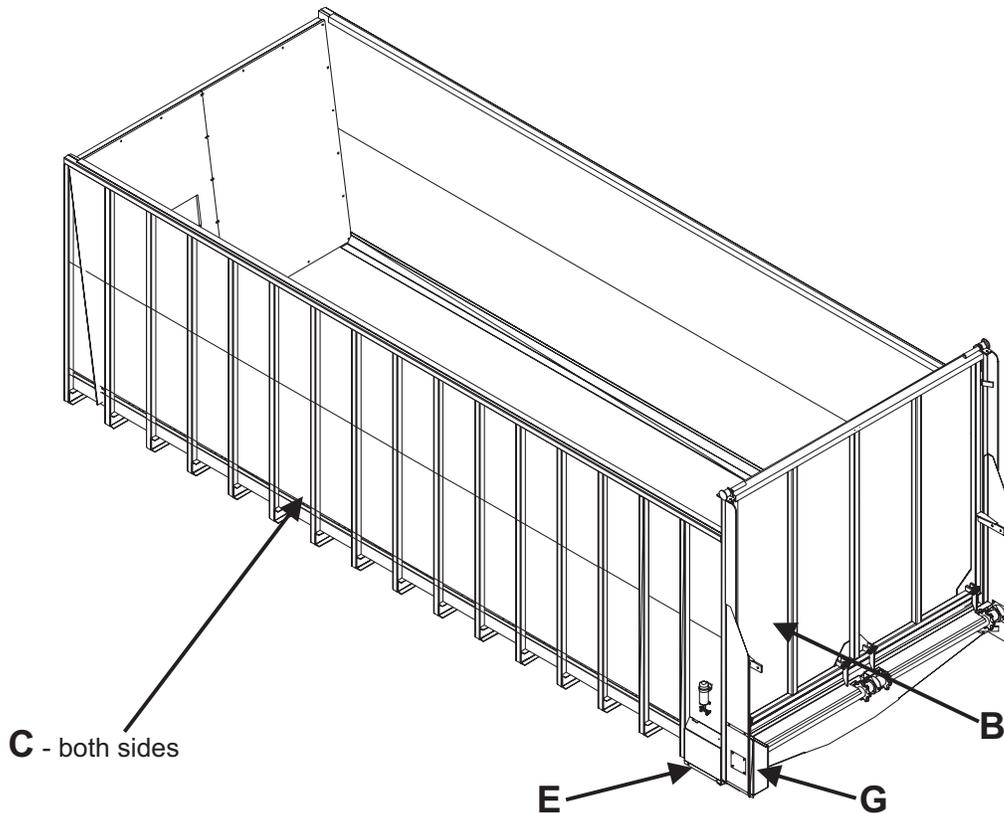
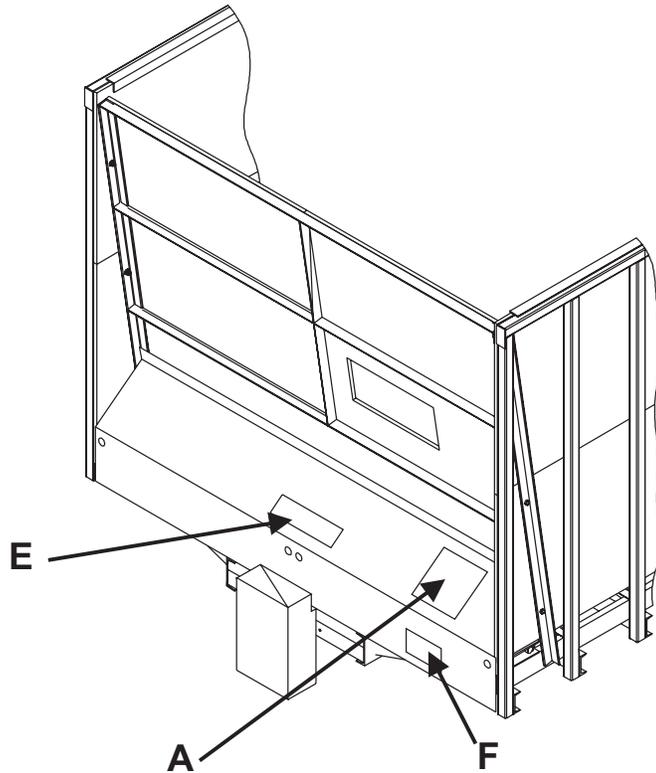
## **Study the Above Safety Rules**

FAILURE TO HEED MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.



## SAFETY FIRST

**D** - on PTO Drive Shaft Guard - Tractor Pulled MODELS (not shown).



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



# SAFETY FIRST



The Meyer Forage Box is manufactured with operator safety in mind. Located on the forage box are various decals to aid in operation and warn of danger or caution areas. Pay close attention to all decals on the forage box.

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

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

 **DANGER** Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury.

 **WARNING** Indicates a potentially hazardous situation that, 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 that, if not avoided may result in minor or moderate injury.

**SAFETY INSTRUCTIONS**

**SAFETY FIRST**  
(Do Not Operate This Machine Without Reading These Instructions)  
Meyer Mfg. Corp. always takes the operator's safety into consideration when designing farm machinery by covering exposed moving parts for his protection; however, some areas cannot be guarded or shielded in order to assure proper operation.

This safety alert symbol  means ATTENTION! BE CAREFUL! YOUR SAFETY IS INVOLVED! It stresses an attitude of HEADS UP FOR SAFETY, also read all other decals as they are also safety warnings.  
Remember: The careful operator is the best operator. Most accidents are caused by human error. Certain precautions must be observed to prevent the possibility of injury or damage.

Read the  **HEADS UP** Rules before you operate our equipment.

- DO NOT** allow persons other than the authorized adult operator near the machine.
- DO NOT** clean, adjust or lubricate the machine when any part is in operation.
- DO NOT** hook a tractor with a 1000 RPM PTO speed to the unloader.
- DO NOT** pass in front of discharge area of machine when implement is in operation.

IF THE MACHINE BECOMES CLOGGED, DISENGAGE POWER TAKE-OFF, REMOVE KEYS FROM TRACTOR, AND ALLOW ALL MECHANISMS TO STOP BEFORE CLEANING.

KEEP HANDS, FEET, CLOTHING AND HAIR AWAY FROM ALL MOVING PARTS WHEN MACHINE IS IN OPERATION. LOOSE OR FLOPPY CLOTHING SHOULD NOT BE WORN BY THE OPERATOR.

STOP ENGINE, WAIT FOR ALL MOVEMENT TO STOP BEFORE LEAVING OPERATOR'S POSITION TO ADJUST, LUBRICATE, CLEAN OR UNLOAD MACHINES. UNLESS OTHERWISE SPECIFICALLY RECOMMENDED IN THE "OPERATOR'S MANUAL."

NEVER START THE MACHINE UNTIL ALL GUARDS AND SAFETY SHIELDS ARE SECURED IN PLACE. KEEP OFF EQUIPMENT UNLESS SEAT OR PLATFORM FOR OPERATION AND OBSERVATION IS PROVIDED. KEEP ALL OTHERS OFF.

PTO SHIELD MUST ROTATE FREELY AND BE IN PLACE.

ALWAYS RUN PTO STRAIGHT IN LINE TO AVOID AN ACCIDENT BY BREAKAGE.

YOU MUST 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 AND COMPLY WITH THESE LAWS.

MAKE CERTAIN EVERYONE IS CLEAR OF MACHINE BEFORE STARTING ENGINE OR OPERATION

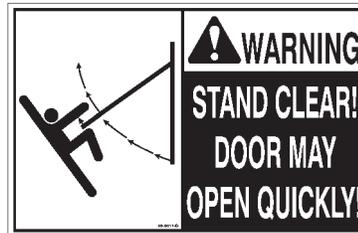
PLEASE KEEP ALL DECALS AND SLOW MOVING VEHICLE SIGN CLEAN SO THEY ARE LEGIBLE.

If any decal becomes damaged or lost, call your dealer or our plant for replacement.  
Always use GENUINE MEYER replacement parts

46-0001-22

**DECAL A.**  
PART NO. 46-0001-22

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



**DECAL B.**  
PART NO. 46-0011-D



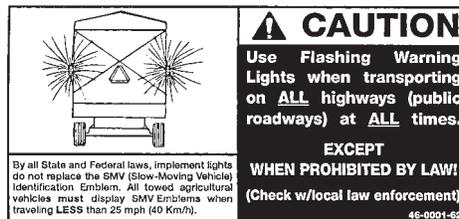
**DECAL C.**  
PART NO. 46-0001-20



**DECAL D.**  
PART NO. 46-0004-2



**DECAL E.**  
PART NO. 46-0001-4



**DECAL F.**  
PART NO. 46-0001-62



**DECAL G.**  
PART NO. 46-0001-33

## PRE-OPERATION

Whenever adjusting, cleaning, lubricating or otherwise servicing this forage box, you must shutoff and lockout power to the box. Because this box can be truck mounted or powered by a tractor, methods vary. On truck mounted units, the connection between the PTO and box is permanently installed and not intended to be disconnected. On trucks, disengage the PTO drive, turn off the engine, set the parking brake, remove the ignition keys and keep them in your possession to prevent anyone else from accidentally applying power to the box unexpectedly. On tractor pulled units, the connection between the tractor PTO and box is by a removable PTO drive shaft. For tractors, disengage the PTO drive, turn off the engine, set the brakes and disconnect the PTO drive shaft from the tractor.

Throughout this manual, when directed to shutoff and lockout power, be familiar with the previously described procedures for the type of machine you are operating.

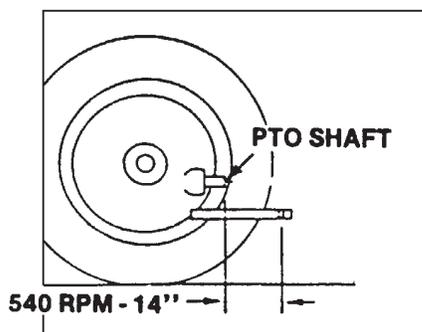
References in this manual are made to the PTO drive shaft and are applicable to tractor pulled MODELS.

Be sure your forage box is properly mounted to the truck frame or to the wagon running gear. Consult your dealer if you have any questions about proper installation. A tie down kit from the manufacturer and illustrated in the parts listing of this manual is available for wagon applications.

Input speed to the forage box line shaft must be 540 rpm maximum. On trucks the PTO drive must be reduced to obtain this speed. For tractors, select the 540 rpm option according to manufacturers instructions.

For tractor pull model, set your tractor drawbar to conform to the standard dimensions shown on the following illustration. This will ensure that the PTO drive shaft will not be over extended.

Before filling the box, slowly engage the PTO and operate box at idle speed to ensure it is operating properly.



**DRAWBAR & PTO RELATIONSHIP**

**!** **DANGER: DO NOT OPERATE WITHOUT PTO GUARD ON MACHINE AND ON TRACTOR OR TRUCK. FAILURE TO HEED MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.**

**!** **DANGER: MAINTAIN PTO DRIVE SHAFT GUARDS 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.**

Inspect the forage box for proper adjustments as this will ensure maximum machine performance. See “Adjustments” section. Grease and oil the forage box as required. See “Lubrication” section.

**!** **WARNING: DO NOT OPERATE UNTIL ALL SHIELDS AND GUARDS ARE IN PLACE AND SECURELY FASTENED. FAILURE TO HEED MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.**

# TRANSPORTING

On tractor pulled MODELS, always disconnect the PTO drive shaft from the tractor and return it to the PTO storage bracket on the box front before transporting. Failure to do this may result in equipment damage.



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

**WARNING**

To prevent serious injury or death:

- Read and understand owner's manual before using. Review safety precautions annually.
- No riders allowed when transporting.
- Securely attach to towing unit. Use a high strength appropriately sized hitch pin with a mechanical retainer and attach safety chain.
- Do not exceed 20 mph (33 kph). Slow down for corners and rough terrain.
- Do not drink and drive.
- Before moving running gear, be sure required lights and reflectors are installed and working.
- Before maintenance or repair, stop vehicle, set parking brake, and remove ignition key.
- Place safety stands under frame and chock wheels before working on tires or running gear.
- Maintain wheel bolts at torque as recommended in the manual.
- If equipped with brakes, maintain proper adjustment.

46-0800-5

**WARNING**

**CRUSHING HAZARD**

To prevent serious injury or death:

- Keep hands and body out of hitch area when attaching towing vehicle.
- Keep body clear of crush point between towing vehicle and load.

46-0800-6

**WARNING**

**RUN-AWAY HAZARD**

To prevent serious injury or death:

- Shift to lower gear before going down steep grades.
- Keep towing vehicle in gear at all times.
- Never exceed a safe travel speed.

46-0800-7

Be sure and observe that the rear discharge door is latched closed before traveling on roadways.

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 running gear.

## TRACTOR TOWING SIZE REQUIREMENTS

Use the following chart for calculating the minimum tractor weight.

MODEL	FORAGE BOX EMPTY WEIGHT + LOAD = GW	MINIMUM TRACTOR WEIGHT UP TO 20 MPH
8118	5,200 + _____ = _____	2/3 of box gross weight
8120	5,400 + _____ = _____	2/3 of box gross weight
8122	5,700 + _____ = _____	2/3 of box gross weight
8124	6,200 + _____ = _____	2/3 of box gross weight

## MATERIAL ESTIMATED WEIGHT PER CUBIC FOOT

MATERIAL	LBS / CU. FT.
SOYBEANS	47 LBS.
COTTON SEED DRY	20 LBS.
CORN (SHELLED)	45 LBS.
CORN SILAGE	30 LBS.
HAYLAGE	20 LBS.
SAWDUST	17 LBS.

SOURCE: ASAE

**NOTE:** HEAPED LOADS HAVE SIGNIFICANTLY HIGHER CAPACITIES



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

Your running gear for tractor pulled model probably has a telescoping tongue for convenience to hitch up. Always back up and lock this tongue in the operating position after hitching.



**WARNING: YOU MUST OBSERVE ALL APPLICABLE TRAFFIC LAWS WHEN TRANSPORTING ON PUBLIC ROADWAYS. CHECK LOCAL LAWS FOR ALL HIGHWAY LIGHTING AND MARKING RE-**

**REQUIREMENTS. FAILURE TO HEED MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.**

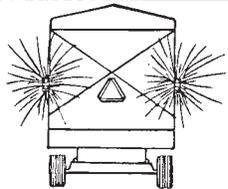


**WARNING: DO NOT TOW AT SPEEDS IN EXCESS OF 20 MPH. FAILURE TO HEED MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.**

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



**CAUTION: USE FLASHING WARNING LIGHTS WHEN TRANSPORTING ON ALL PUBLIC ROADWAYS, EXCEPT WHEN PROHIBITED BY LAW.**

	<p><b>CAUTION</b></p> <p>Use Flashing Warning Lights when transporting on <b>ALL</b> highways (public roadways) at <b>ALL</b> times.</p> <p><b>EXCEPT</b></p> <p><b>WHEN PROHIBITED BY LAW!</b></p> <p><b>(Check w/local law enforcement)</b></p> <p>46-0004-62</p>
<p><small>By all State and Federal laws, implement lights do not replace the SMV (Slow-Moving Vehicle) Identification Emblem. All towed agricultural vehicles must display SMV Emblems when traveling LESS than 25 mph (40 Km/h).</small></p>	

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.

## **TRUCK MOUNT FORAGE BOXES**

Depending on the make and model of 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.

# REAR UNLOAD OPERATION

Whenever adjusting, cleaning, lubricating or otherwise servicing this forage box, you must shutoff and lockout power to the box. Because this box can be truck mounted or powered by a tractor, methods vary. On truck mounted units, the connection between the PTO and box is permanently installed and not intended to be disconnected. On trucks, disengage the PTO drive, turn off the engine, set the parking brake, remove the ignition keys and keep them in your possession to prevent anyone else from accidentally applying power to the box unexpectedly. On tractor pulled units, the connection between the tractor PTO and box is by a removable PTO drive shaft. For tractors, disengage the PTO drive, turn off the engine, set the brakes and disconnect the PTO drive shaft from the tractor.

Throughout this manual, when directed to shutoff and lockout power, be familiar with the previously described procedures for the type of machine you are operating.

References in this manual are made to a PTO drive shaft and are applicable to tractor pulled MODELS.



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

Tractor Pulled:

Always park the forage box and unloading tractor in a straight line. Minimize the unloading angle on the PTO drive shaft to prevent wearing of universal joints when connected to the unloading tractor PTO. Shift the unloading tractor to "Neutral" or "Park". Set the brakes and turn power off. Remove the PTO drive shaft from the forage box PTO storage bracket and connect it to the tractor PTO. Be sure the PTO yoke is securely locked to the tractor PTO.

Make sure all persons are well clear of the forage box and the unloading area.

The rear discharge door opens automatically by releasing its latches as the main aprons begin to move. The rear discharge door can spring open with extreme force when its latches release. See figure 1. Pressure of forage against the rear door causes it to spring open very quickly.

**WITH EXTREME FORCE. KEEP ALL PERSONS WELL CLEAR OF THE FORAGE BOX AND UNLOADING AREA. FAILURE TO HEED MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.**

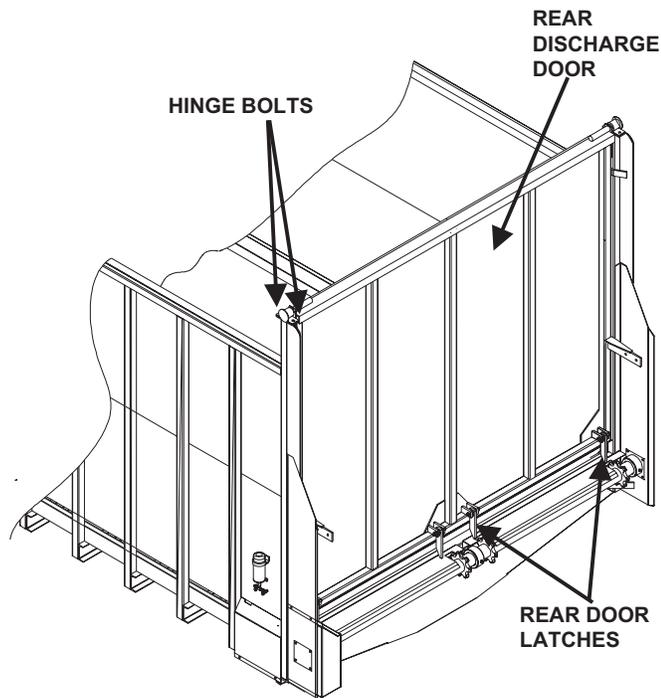
From the operator's seat, restart, and **SLOWLY** engage the PTO to start the apron chains and to open the rear door. Once the door opens, regulate the discharge flow with the engine speed. Do not operate above rated engine PTO speed.

Unloading is best observed from the operator's seat. Keep moving the forage box forward to prevent silage from being carried underneath into the main apron chain return area.

The front of the box has a plexiglass window for convenient observation.



**WARNING: DO NOT STEP OVER THE PTO DRIVE SHAFT. STAY WELL CLEAR OF THE PTO AT ALL TIMES. FAILURE TO HEED MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.**



**WARNING: THE REAR DISCHARGE DOOR CAN SPRING OPEN QUICKLY AND**



**FIGURE 1. REAR OPENING DISCHARGE DOOR CAUTION - QUICK RELEASE**



**WARNING: DO NOT STEP UP ON ANY PART OF THE FORAGE BOX AT ANY TIME. FAILURE TO HEED MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.**

The unloading process described is to be performed by the operator alone. This will eliminate unexpected “start-ups” and minimize other hazards that could result by more than one person in control. If the forage box should become clogged, shut off all power to the forage box and wait for all motion to stop. Shut off and lockout power. Then clean out the machine.

When finished unloading reduce engine speed to idle and disengage the PTO drive. Pull the rear unload box straight ahead to pull the door away from the unloaded pile of forage. When free, gravity will allow the door to swing shut and the door latches will engage the apron chain links to secure it shut. Observe that this happens properly.

Tractor Pulled:

Set the brakes and turn the tractor “OFF”. When all movement has stopped, disconnect the PTO drive shaft from the tractor and return it to its storage bracket. Secure it with the rubber tie down strap.



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

Allow box to completely clean out the last load of forage. It is recommended to lube the rear unload box before storage to exclude moisture from bearings. Apply oil to roller chain drives with gravity oil luber and to the apron chains with a brush. This 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 box is ready for use at the beginning of the next season.

Never use “live” power to aid in the clean-out of a clogged machine. If any mechanism fails, move the forage box to a safe work area and then repair the mechanism before proceeding with unloading of the forage. If repairs require removal of forage from inside the forage box, remove the rear discharge door (bolted hinges on top of each side) and empty the forage manually by hand through the rear opening.



**DANGER: NEVER ENTER THE FORAGE BOX FOR ANY REASON WITHOUT FIRST SHUTTING OFF AND LOCKING OUT POWER. FAILURE TO HEED MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.**

Never enter the forage box for any reason if there is any possibility of power being applied to the unit.

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# LUBRICATION



**WARNING: SHUT OFF AND LOCK OUT POWER BEFORE CLEANING, ADJUSTING, LUBRICATING OR SERVICING THIS MACHINE. FAILURE TO HEED MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.**

## DAILY LUBRICATION

(every 8-10 loads)

(L1) Grease (2) PTO drive shaft universal joints (not illustrated). Grease (1) PTO drive shaft telescoping Shaft and tube. Zerk accessible through the plastic guards (not illustrated)

(L2) Oil (2) roller chains on apron drive. This is done by opening the ball valve on the gravity oiler while unloading, once per day.



**WARNING: DO NOT STAND BEHIND UNIT WHILE PERFORMING THIS OPERATION.**

(L3) Refill the gravity oiler at the beginning of each day.

(L4) Grease two jack shaft bearings. Lube line for bearing under box is routed to the side of the box for convenience.

(L5) Oil (4) rear gate latch pivot bolts.

(L6) Maintain oil in the gear box at the check plug level.

(L7) Grease (3) main apron shaft bearings.

## BEGINNING OF CROP MAINTENANCE

(approximately 100-150 loads)

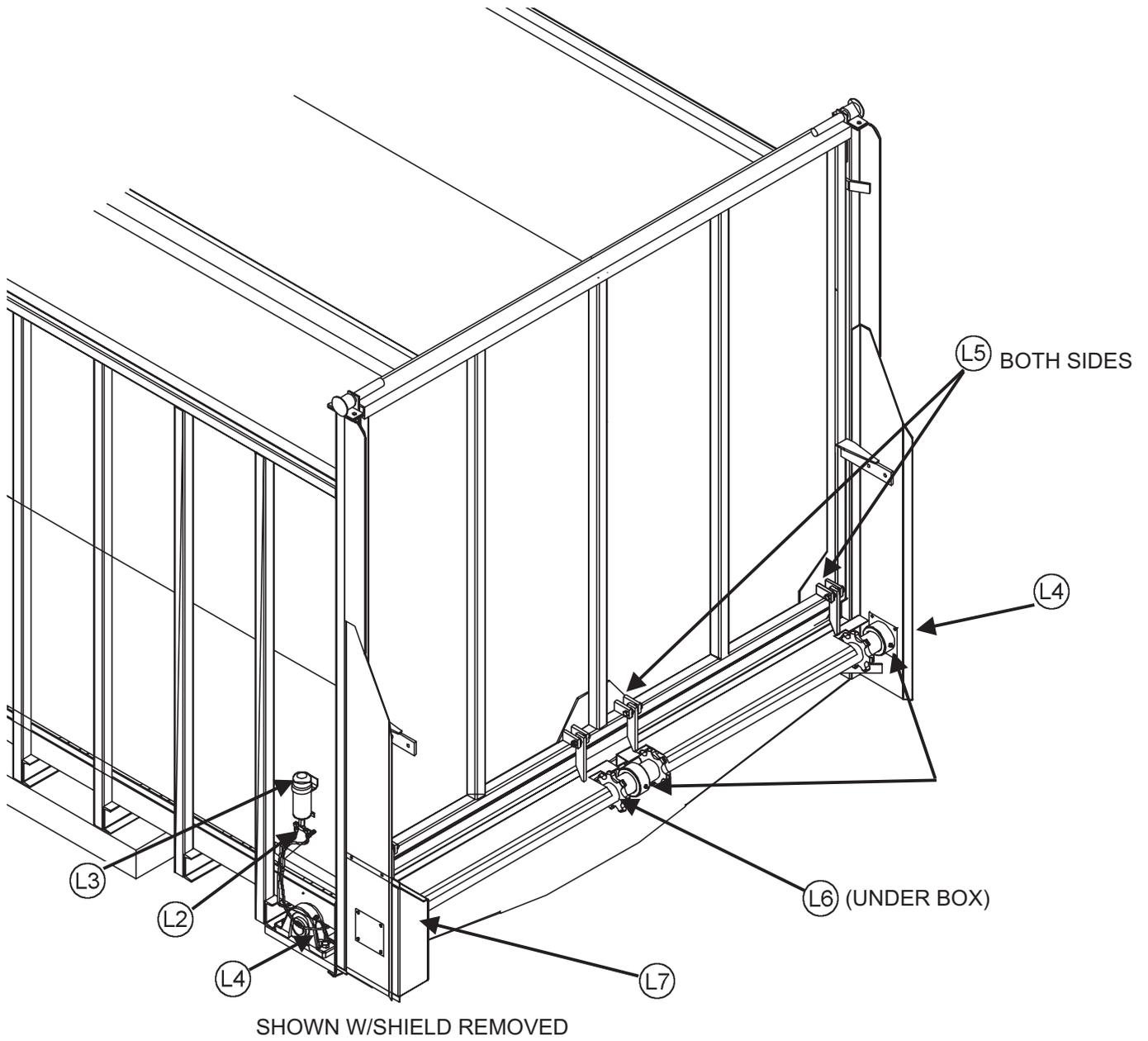
Change oil in the gear box after the first season of use and yearly thereafter. Use #80-90 wt. Gear Lube Oil. Lighter oil may be used in temperatures lower than 20° F.

## END OF CROP CLEANUP AND MAINTENANCE

Allow box to completely clean out last load of forage. Clean out all forage material from inside the box and on the outside of the box.

It is recommended to lube the forage box before storage to exclude moisture from bearings. Apply oil to roller chain drives with the gravity oil luber and to the main apron chains with a brush.

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 forage box is ready for use at the beginning of the next season.



**LUBRICATION DIAGRAM**

# ADJUSTMENTS



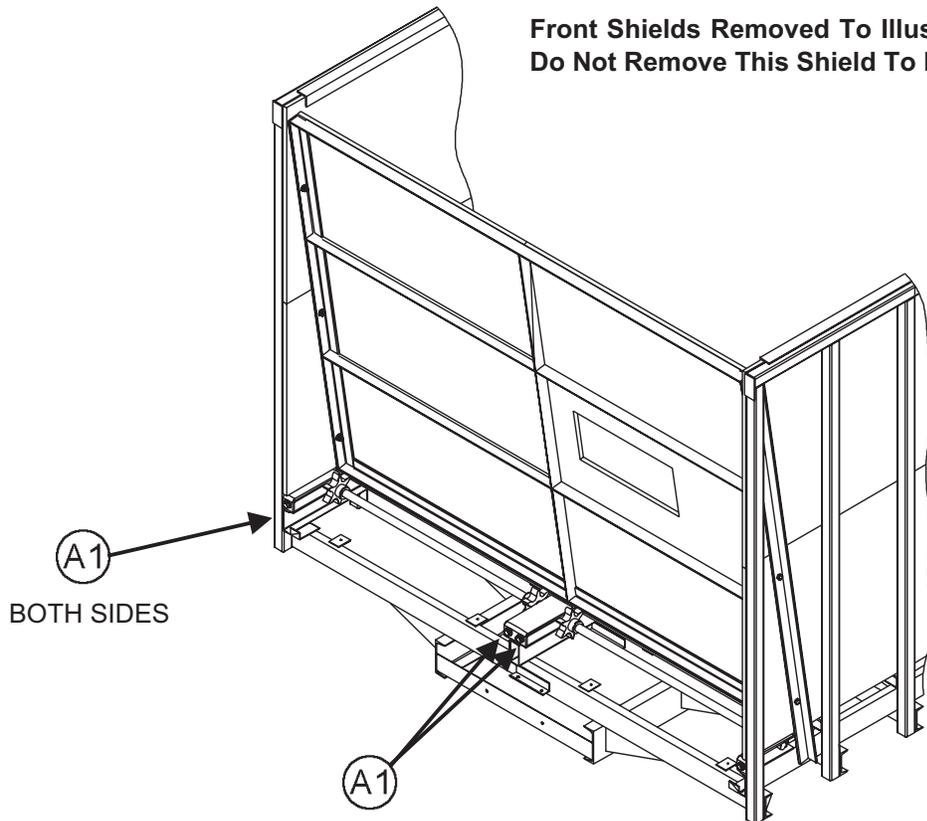
**WARNING: SHUT OFF AND LOCK OUT POWER BEFORE CLEANING, ADJUSTING, LUBRICATING OR SERVICING THIS MACHINE. FAILURE TO HEED MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.**

(A1)

Correct tension on the apron chains is when the apron chain slat is 1/8" to 1/4" off the return slides (three feet from the front of the box). To tighten chains, tighten the adjuster bolts at each end of the front sprocket shafts. Each apron chain has its own sprocket shaft. Tighten the adjuster bolts at each end of the shaft equally.

The roller chain drives are tensioned by automatic spring loaded tension blocks. Periodically eye bolts will need to be adjusted to maintain proper spring tension. Springs should be stretched to obtain approximately 1/16" gap between windings.

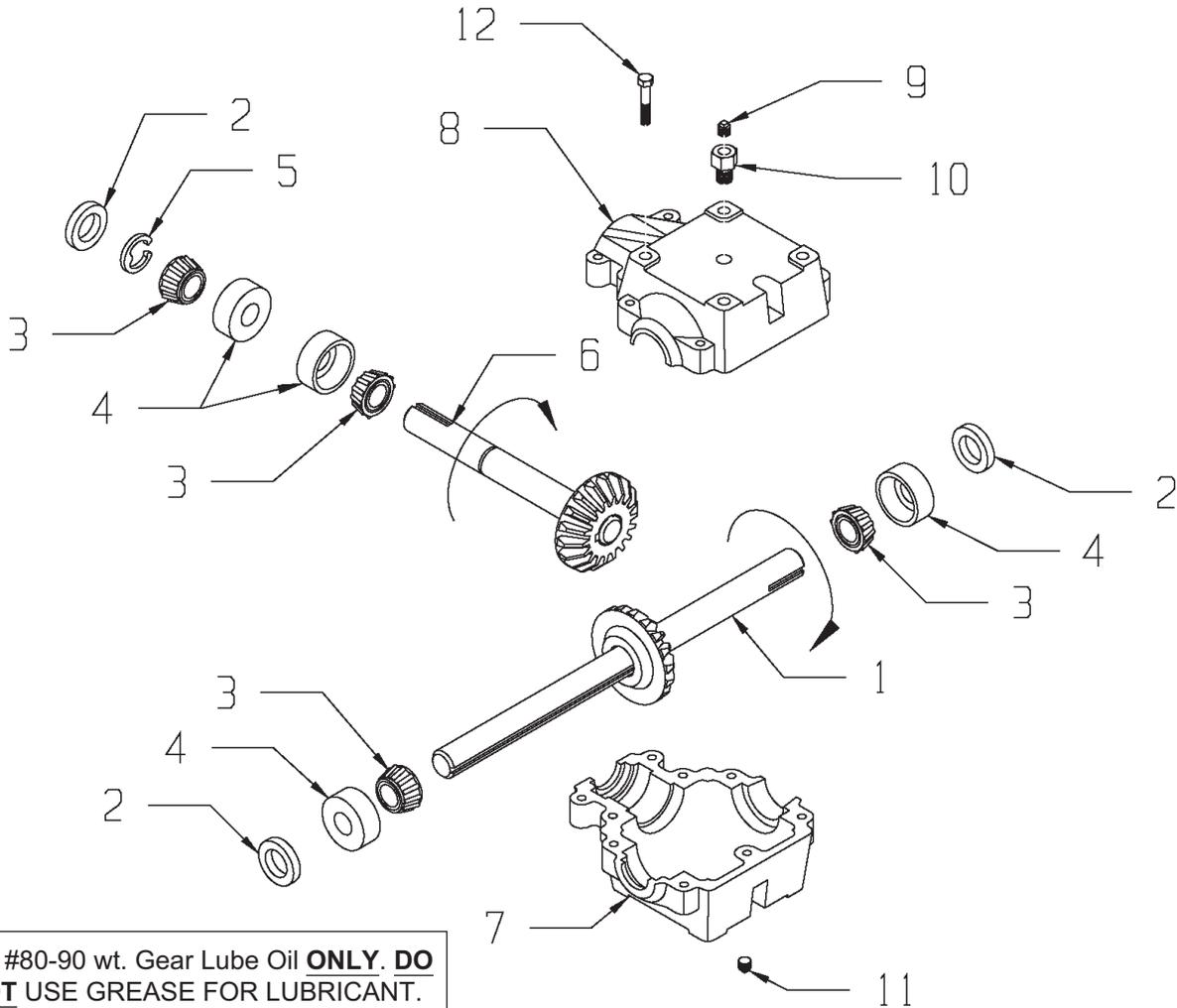
**Front Shields Removed To Illustrate Service Components.  
Do Not Remove This Shield To Perform The Service.**



**ADJUSTMENT DIAGRAM**

# REPAIR PARTS

## #19-0038 2:1 RATIO GEARBOX



Use #80-90 wt. Gear Lube Oil **ONLY**. **DO NOT** USE GREASE FOR LUBRICANT.

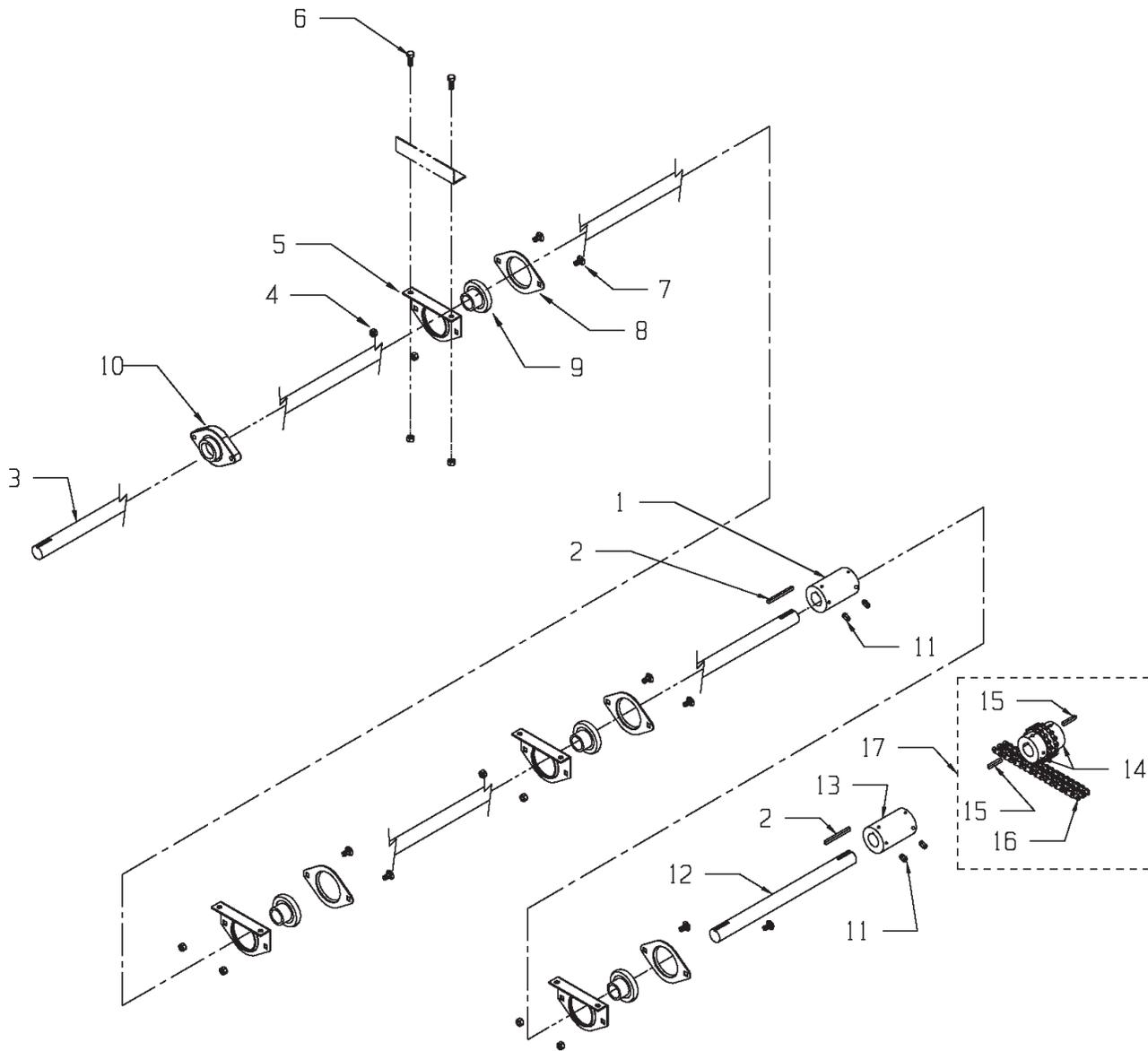
KEY	PART NO.	DESCRIPTION
1	19-0034-4	Output Shaft/Gear Assembly
2	19-0018-2	Seal
3	19-0018-3	Bearing Cone
4	19-0016-3	Bearing Cup
5	19-0018-4	Retaining Ring
6	19-0034-3	Input Shaft/Gear Assembly
7	19-0043-1	Gearbox Casting (Tapped Holes)
8	19-0041-2	Gearbox Casting (Thru Holes)
9	19-0002-17	Vent Plug, 5 PSI
10	19-0023-2	Bushing, 1/2-14 NPT
11	19-0016-5	Plug, 1/2-14 NPT
12	19-0016-11	Bolt, 3/8-16 x 1.50 SHCS

**NOTE:** Gearbox may be flipped 180 degrees if input power rotation is opposite standard rotation. (Truck mount boxes only)



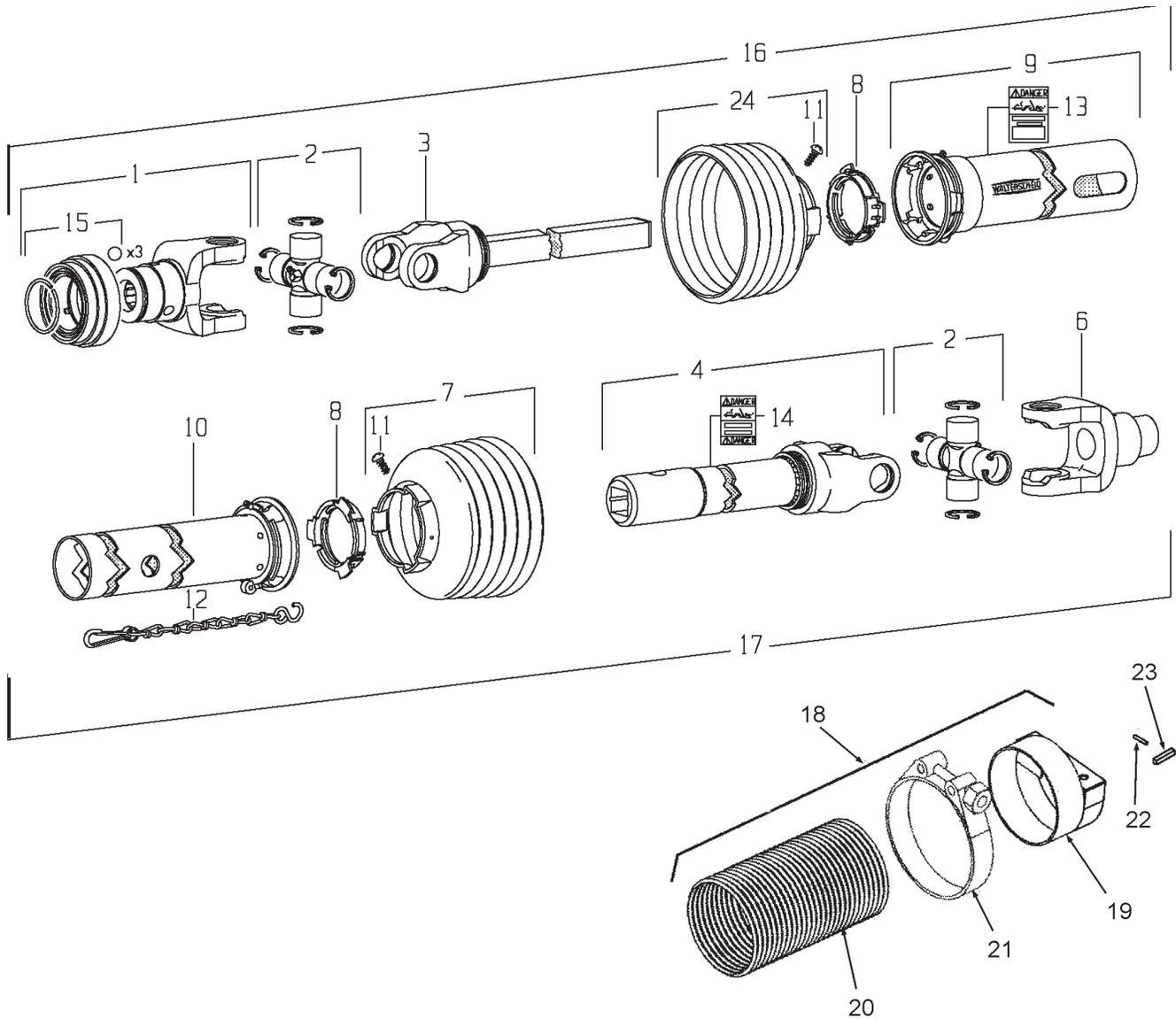
**CAUTION: VERIFY CORRECT DRIVE ROTATION BEFORE OPERATING. FAILURE TO DO SO MAY RESULT IN SEVERE EQUIPMENT DAMAGE.**

## MAIN DRIVE SHAFT (PTO DRIVE)



KEY	PART NO.	DESCRIPTION
1	37-0007	Shaft Coupler 1-1/4" Bore
2	35-0014	Key, 1/4 x 1/4 x 4-1/2"
3	23-0094	8118 Center Drive Shaft, 1-1/4" x 186"
	23-0100	8120 Center Drive Shaft, 1-1/4" x 202"
	23-0091	8122/8124 Center Drive Shaft, 1-1/4" x 234"
4	810-3816-Z	3/8-16 Spin Locknut
5	14-0003-1	1-1/4" Pillow Block Flange
6	851-3816-1Z	Bolt, 3/8-16 x 1, Machine Bolt Grade 5
7	850-3816-1Z	Bolt, 3/8-16 x 1, Carriage Bolt Grade 5
8	14-0003-2	1-1/4" Two Bolt Flange
9	14-0002-3	1-1/4" Bearing w/Lock Collar
10	14-0046	1-1/4" Two Hole Flange Cast Bearing
11	827-3118-.38	Set Screw, 5/16-18 x .375
12	23-0098	8124 Center Drive Shaft Ext, 1-1/4" x 32"
13	37-0007	Shaft Coupler 1-1/4" Bore (Prior to Serial #0781227)
14	37-0017-1	1-1/4" Bore Chain Coupler
15	35-0012	Key, 1/4x1/4x1-1/2"
16	37-0013-2	Coupler Chain
17	37-0020	Chain Coupler Assembly 1-1/4" W/Keys (Serial #0781227 & Later)

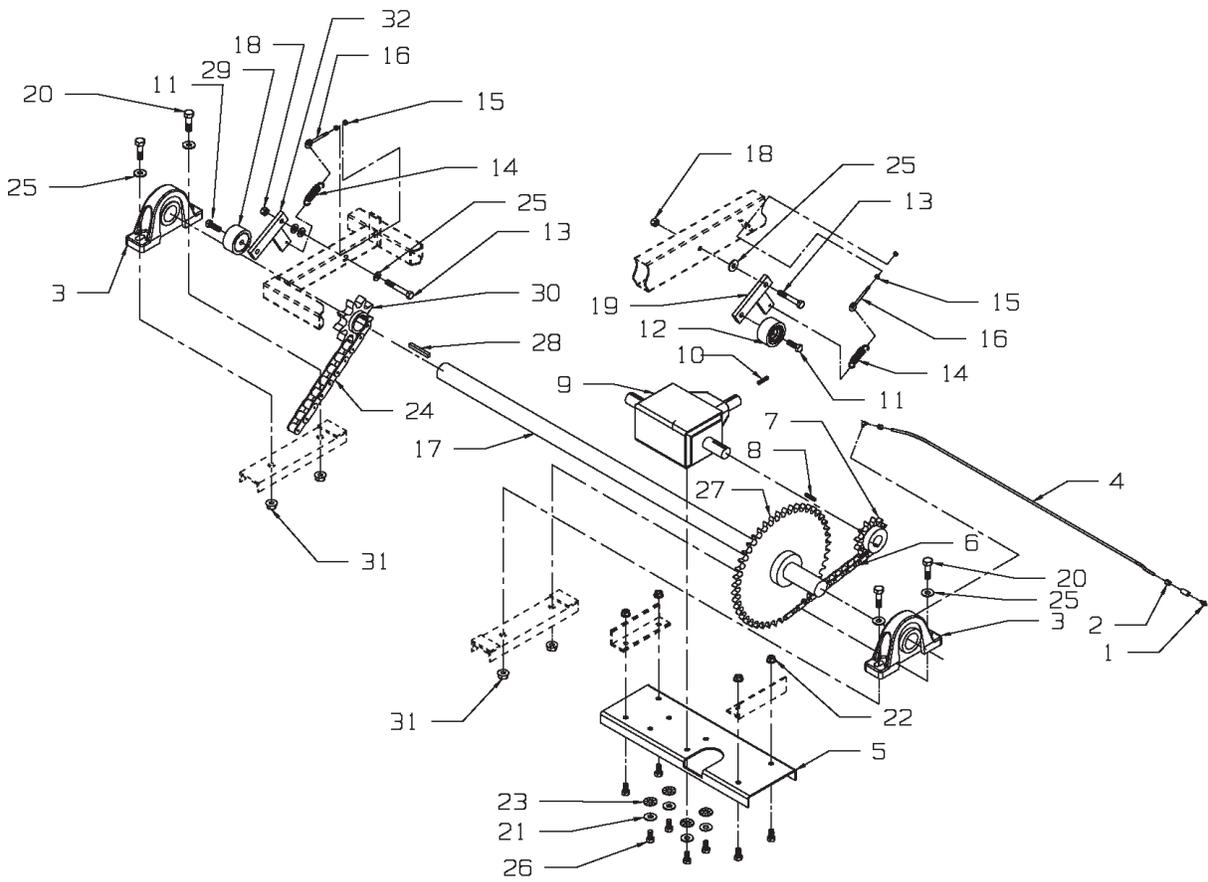
# #18-0119 (OPTIONAL) UNIVERSAL JOINT TELESCOPING ASSEMBLY W/GUARD



KEY	PART NO.	DESCRIPTION
	18-0117	Joint Assembly
1	18-0117-1-1	1 3/8-6 Spline Yoke ASGE
2	18-0117-1-2	Cross and Bearing Kit
3	18-0117-1-3	Inboard Yoke and Bar Welded Assy.
4	18-0117-2-1	Inboard Yoke, Tube and Sleeve Welded Assy.
6	18-0119-1-1	Overrunning Clutch Assembly
7	18-0117-1-4	Shield Cone 5-Rib
8	918-0208-2-4	Bearing Ring SC25
9	18-0117-1-6	Outer Shield Tube Oval
10	18-0117-2-3	Inner Shield Tube Round
11	918-0208-2-9	Screw-Included in Item #7
12	918-0208-2-7	Safety Chain
13	918-0208-2-8	Decal Outer-Included in Item #9

KEY	PART NO.	DESCRIPTION
14	918-0208-1-10	Decal Inner-Included in Item #4
15	18-0117-1-1-1	ASGE Collar Kit-Included in Item #1
16	18-0117-1	Tractor Male Half Complete
17	18-0119-1	Implement Female Half Shaft Complete
18	24-0118	Shield Assembly (Optional PTO Drive)
19	24-0118-1	PTO Shield Welded Bracket
20	24-0118-2	PTO Flexible Shield
21	32-0025	PTO Flexible Shield Clamp
22	38-0016	5/16" Roll Pin (Optional PTO Drive)
23	35-0021	Key, 1/4 x 1/4 x 1-3/4
24	18-0117-1-7	Shield Cone, 4-Rib

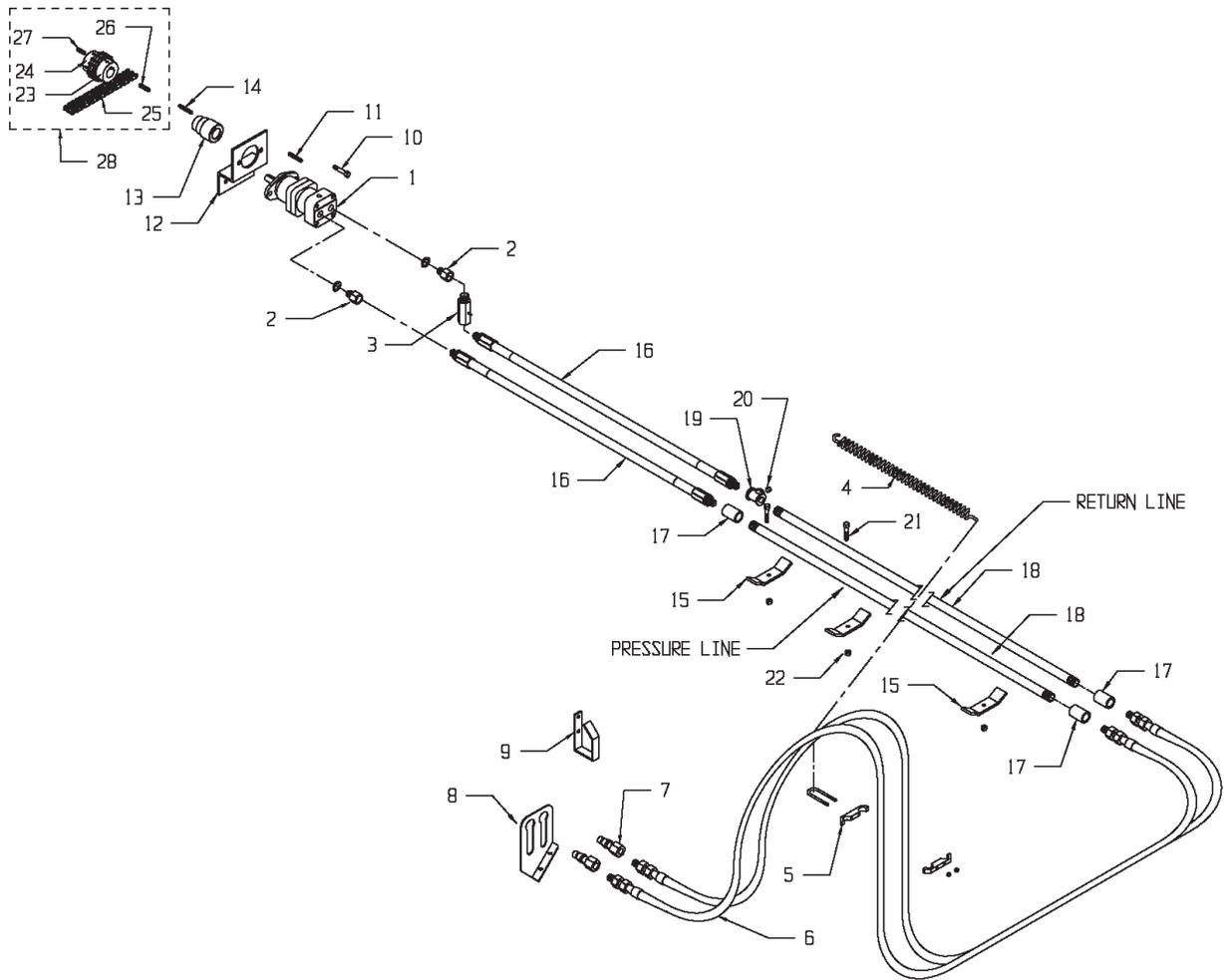
# GEARBOX & CHAIN DRIVE



## GEARBOX & CHAIN DRIVE

KEY	PART NO.	DESCRIPTION
1	30-0002	Zerk, 1/8 NPT Straight
2	930-3602	68F-04X02 Male Connector Brass Compression
3	14-0044	Bearing, 2" Pillow Block
4	933-3636	46" Copper Grease Line
5	25-8006-1	Gearbox Mount Channel
6	11-0117	#80-59 Roller Chain
7	10-0080	80B12 1-3/8" Bore 5/16" Kwy Sprocket
8	35-0013	Key, 5/16 x 5/16 x 1.5
9	19-0038	Superior Gearbox 2:1
10	35-0014	Key, 1/4 x 1/4 x 4.5
11	851-7510-1.75Z	Bolt, 3/4-10 x 1-3/4" Hex Head Machine Bolt
12	912-0017	1-3/8" Nylon Roller Complete
12A	912-0015-1	Nylon Roller Only
12B	912-0015-2	Inner Sleeve
13	851-7510-4Z	Bolt, 3/4-10 x 4 Hex Head Machine Bolt
14	929-3601	Spring, Extension
15	813-3118-Z	Nut, 5/16-18
16	933-3804	5/16 x 5" Eyebolt #124032, 5" Overall 3" Threads ZN
17	23-0097	Jack shaft, 2" x 59"
18	814-7510-Z	Nut, 3/4-10 Center Locknut
19	25-8007-1	80 Chain Tightener Weldment
20	851-6311-2.5Z	Bolt, 5/8-11 x 2-1/2 Hex Head Machine Bolt
21	805-0063-Z	Washer, 5/8" Flat
22	810-5013-Z	Nut, 1/2-13 Spin Locknut
23	806-0050-Z	Washer, 1/2 Internal Tooth
24	11-0123	#120-37 Roller Chain
25	805-0063-Z	Washer, 5/8" Flat
26	851-5013-1.25Z	Bolt, 1/2-13 x 1.25 Hex Head Machine Bolt
27	910-0003	Sprocket, 80B45, 2" Bore, 1/2" KWY
28	35-0024	Key, 1/2" x 1/2" x 2-1/2" (1045 Mat)
29	912-0016	7/8" Nylon Roller Complete
29A	912-0016-1	Nylon Roller Only
29B	912-0016-2	Inner Sleeve
30	10-0085	Sprocket, 120B9, 2" Bore 1/2" KWY
31	810-6311-Z	Nut, 5/8-11 Spin Locknut
32	25-8031-1	120 Chain Tightener Weldment

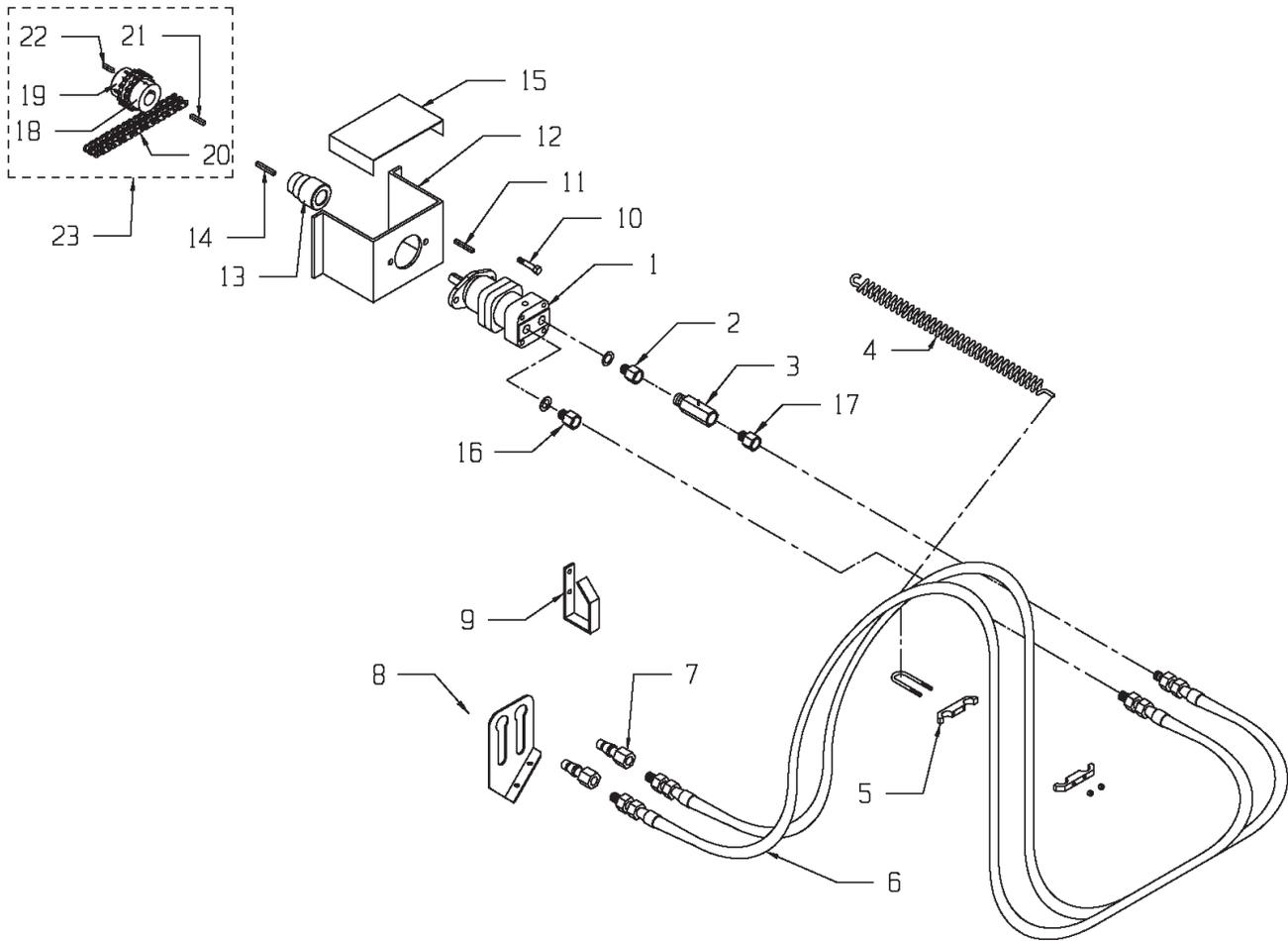
## HYDRAULIC PLUMB TO THE FRONT



KEY	PART NO.	DESCRIPTION
1	55-0088	Hydraulic Motor
2	55-0048	5/8-3/4" Adapter O-Ring Base
3	55-0007-B	3/4" Check Valve
4	29-0012	Spring
5	55-0033	Clamp Assembly
6	55-0034	1/2" 2-Wire x 120" Hose Assy.
7	55-0013	Pioneer Coupler Male Tip
8	25-0249-1	Holder For Hydraulic Hose Ends
9	25-0209	Hydraulic Hose Bracket
10	851-3816-1Z	Bolt, 3/8-16 x 1" Hex Head
11	35-0019-H	Key, 1/4 x 1/4 x 1-1/4" (Hard) W/Rounded Ends
12	25-8042-1	Hydraulic Motor Mount Bracket, Rear
13	37-0012	Coupler 1" to 1-1/4" (Prior to Serial #0781227)
14	35-0021	Key, 1/4 x 1/4 x 1-3/4"
15	25-0210-4	Hydraulic Pipe Holder Clamp
16	55-0029	2-Wire 3/4" Hose x 36" Long
17	55-0030	3/4" Black Steel Coupler

KEY	PART NO.	DESCRIPTION
18	55-0062	3/4" Hydraulic Pipe x 161" - 8118
	55-0024	3/4" Hydraulic Pipe x 185" - 8120
	55-0022	3/4" Hydraulic Pipe x 209" - 8122
	55-0020	3/4" Hydraulic Pipe x 233" - 8124
19	55-0079	3/4" Black Tee Fitting
20	55-0081	3/4" Steel Plug
21	851-3816-2.2 5	HHCS 3/8-16 x 2-1/4"
22	815-3816-Z	3/8-16 Nylon Insert Locknut
23	37-0013-1	1" Bore Chain Coupler
24	37-0017-1	1-1/4" Bore Chain Coupler
25	37-0013-2	Coupler Chain
26	35-0019-H	Key, 1/4x1/4x1-1/4" (Hard) W/Rounded Ends
27	35-0021	Key, 1/4x1/4x1-3/4"
28	37-0019	Chain Coupler Assembly 1" to 1-1/4" W/Keys (Serial #0781227 & Later)

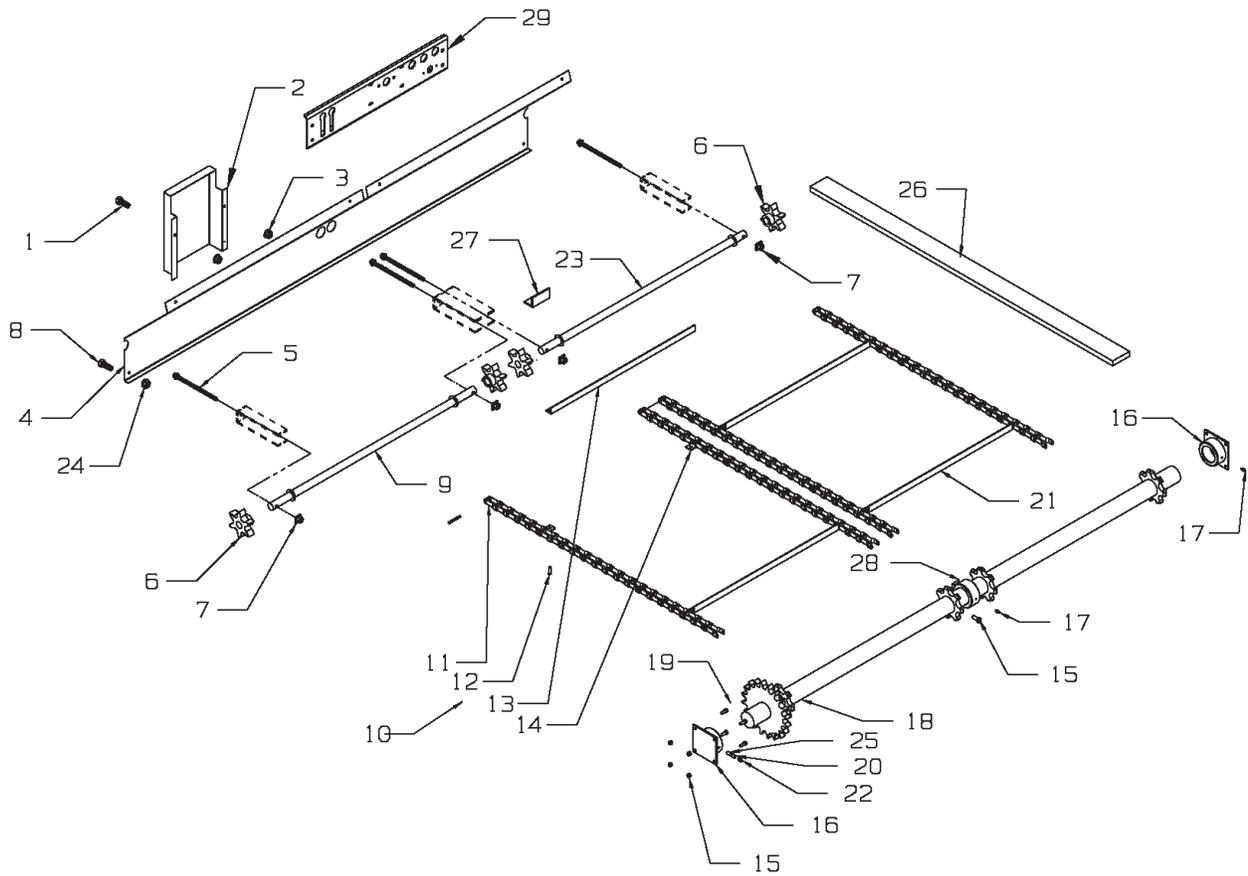
## HYDRAULIC DRIVE (OPTIONAL FRONT MOUNT) #8100 - HYD



KEY	PART NO.	DESCRIPTION
1	55-0088	Hydraulic Motor
2	55-0048	5/8-3/4" Adapter ORB
3	55-0007-B	3/4" Check Valve
4	29-0012	Spring
5	55-0033	Clamp Assembly
6	55-0034	1/2" 2-Wire x 120" Hose Assembly
7	55-0013	Pioneer Coupler Male Tip
8	25-0249-1	Hydraulic Hose End Holder
9	25-0209	Hose Hanger Bracket
10	851-3816-1Z	Bolt 3/8-16x1" Hex Head
11	35-0019-H	Key, 1/4x1/4x1-1/4" (Hard) W/Rounded Ends
12	25-8041-1	Hydraulic Motor Mount Bracket

KEY	PART NO.	DESCRIPTION
13	37-0012	Welded Coupler 1" to 1-1/4" (Prior to Serial #0781227)
14	35-0021	Key, 1/4x1/4x1-3/4"
15	25-8040-1	Motor Bracket Cover
16	55-0085	1/2x5/8" ORB Straight Fitting
17	55-0044	3/4x1/2" Steel Hex Bushing
18	37-0013-1	1" Bore Chain Coupler
19	37-0017-1	1-1/4" Bore Chain Coupler
20	37-0013-2	Coupler Chain
21	35-0019-H	Key, 1/4x1/4x1-1/4" (Hard) W/Rounded Ends
22	35-0021	Key, 1/4x1/4x1-3/4"
23	37-0019	Chain Coupler Assembly 1" to 1-1/4" W/Keys (Serial #0781227 & Later)

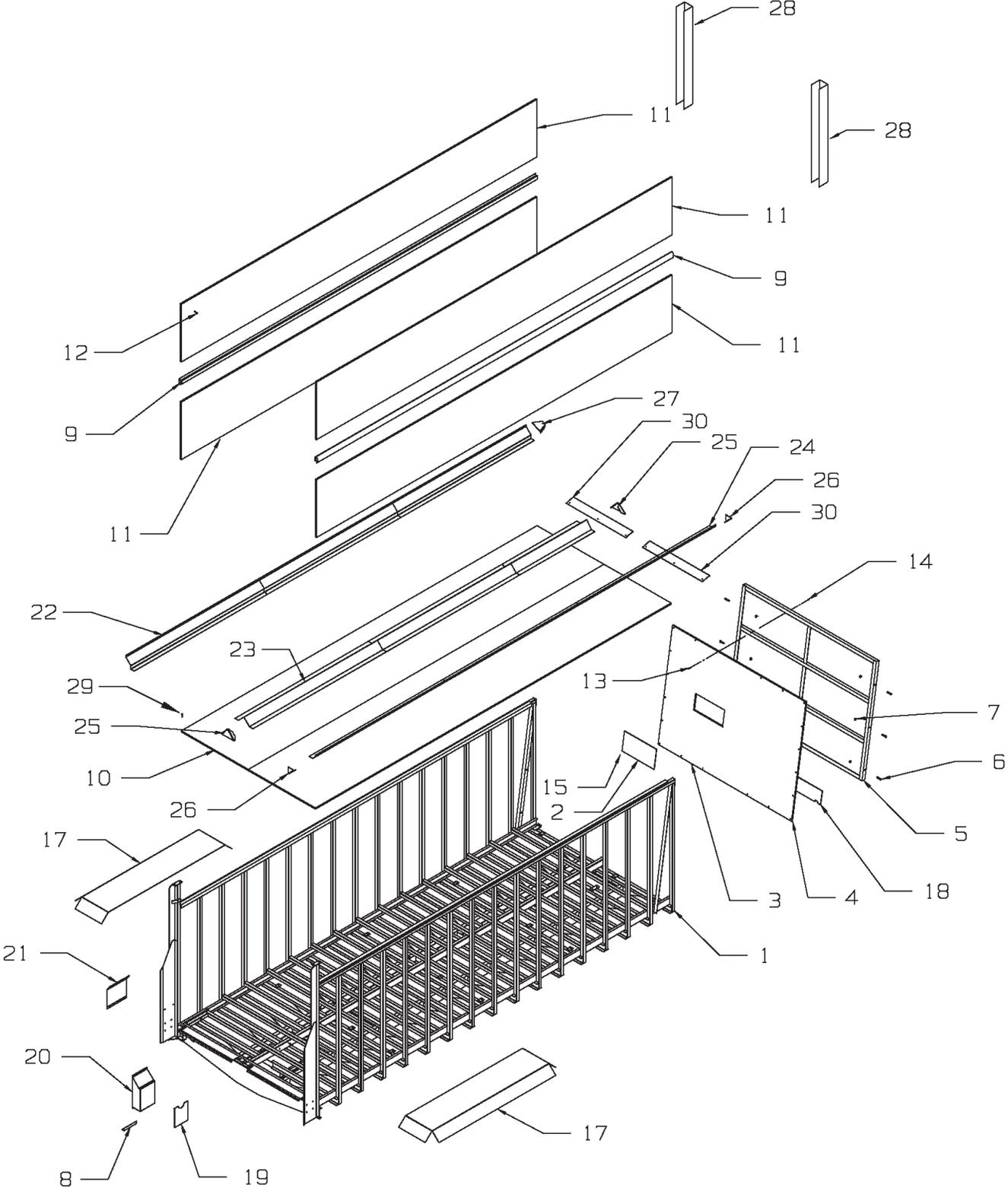
# APRON



## APRON

KEY	PART NO.	DESCRIPTION
1	851-3816-1Z	Bolt, 3/8-16 x 1" Hex Head
2	24-8002	Front Drive Shield (Mechanical Truck Mount)
3	815-3816-Z	3/8-16 Nylon Locknut
4	24-8001	Front Apron Chain Shield
5	25-8009	Apron Chain Tightener Bolt
6	10-0075	Idler Sprocket w/Bushing
	13-0018	Bushing, 1-1/4" ID x 1-5/8" OD x 1-1/2" Long
7	25-8010	Tightener Block Weldment
8	851-2520-1Z	Bolt, 1/4-20 x 1" Hex Head
9	23-0095	Left Hand Idler Shaft Assembly
10	11-0125	Main Apron Chain Assembly (24 Ft.) 667XH
	11-0107	Main Apron Chain Assembly (22 Ft.) 667XH
	11-0131	Main Apron Chain Assembly (20 Ft.) 667XH
	11-0121	Main Apron Chain Assembly (18 Ft.) 667XH
11	11-0107-2	Pintle Chain Link-D667
12	11-0107-6	Rivet, 7/16 x 1"
13	11-0107-5	Slat
14	11-0107-3	Attachment Link-D667XH
15	810-5013-Z	1/2-20 Spin Locknut
16	14-0041	RH/LH Main Drive Shaft Bearing Assembly
17	30-0002	1/8" NPT Straight Zerk
18	23-0096	Main Drive Shaft Assembly
19	851-5013-1.25Z	Bolt, 1/2-13 x 1-1/4" Hex Head
20	30-0009	Coupler 1/8" NPT x 3/4" Long
21	11-0107-1	Slat w/Attachment Links
22	30-0006	1/8" NPT x 90 Degree Zerk
23	23-0090	RH Idler Shaft Assembly
24	810-2520-Z	1/4-20 Spin Locknut
25	30-0016	1/8" NPT Close Nipple
26	701-.75-1.75-16	Chain Return Slide Rail (As Required)
	701-.75-1.75-18	Chain Return Slide Rail (As Required)
	701-.75-1.75-20	Chain Return Slide Rail (As Required)
27	25-8000-1	Front Gate Center Support
28	14-0048	Replacement Split Center Bearing Assembly
29	100-8020-65	Front Stringer Support Plate

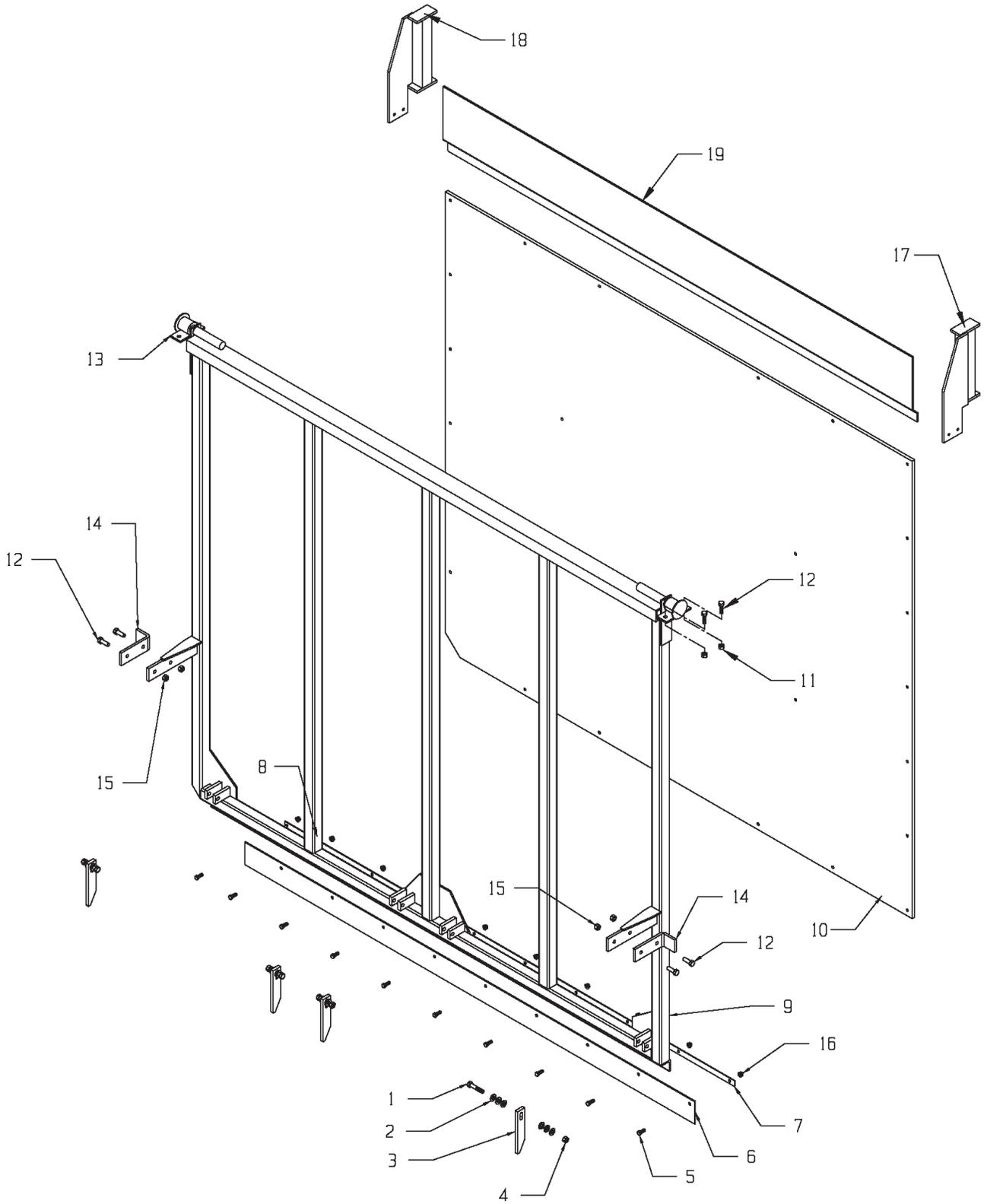
# 8100 MAIN BODY



## 8100 MAIN BODY

KEY	PART NO.	DESCRIPTION
1	100-8022	8124 Main Frame & Side Assembly
	100-8020	8122 Main Frame & Side Assembly
	100-8021	8118 Main Frame & Side Assembly
	100-8023	8120 Main Frame & Side Assembly
2	49-0089	Plexiglass Viewing Window
3	100-8010-8	Fiberglass Plywood Panel (with Viewing Hole) 96.5 x 69.75"
4	708-96.5-69.75	Fiberglass Plywood Panel 96.5 x 69.75"
5	100-8010	Front Gate Assembly Complete
	100-8010-1	Front Gate Welded Frame Only
6	851-5013-1.5Z	1/2-13 x 1-1/2" Hex Head Bolt
7	810-5013-Z	1/2-13 Spin Locknut
8	24-8005-1	Shield Bottom Seal, 120 Drive Chain
9	33-1008	Plywood Tee Molding (By the foot)
10	709-48-206.5	8118 Superslick Floor Panel 48 x 206-1/2"
	709-48-222.5	8120 Superslick Floor Panel 48 x 222-1/2"
	709-48-254.5	8122 Superslick Floor Panel 48 x 254-1/2"
	709-48-286.5	8124 Superslick Floor Panel 48 x 286-1/2"
11	708-70.75-264	Fiberglass Plywood Side Panel 70.75 x 264" (8118, 8120, 8122)
	708-70.75-296	Fiberglass Plywood Side Panel 70.75 x 296" (8124)
12	829-14-1.88	1/4-14 x 1-7/8" Self Tapping Screw
13	850-25201.25Z	1/4-20 x 1-1/4" Carriage Bolt
14	810-2520-Z	1/4-20 Spin Locknut
15	803-12-.63	#12 Phillips Pan Head Screw
17	25-8008	Fender (Optional on Truck Mount Models)
18	49-0085	Front Gate Belting
19	24-8005-2	Shield, 120 Drive Chain
20	24-8003	Shield, 120 Drive Chain
21	24-8004	Shield, Jack Shaft
22	25-8020-1	LH Rear/Center Floor Chain Guide 96"
	25-8029-1	LH Center Floor Chain Guide 48"
23	25-8024-1	Center Rear Floor Chain Guide 96"
	25-8027-1	Center Floor Chain Guide 96"
	25-8028-1	Center Floor Chain Guide 48"
24	25-8022-1	RH Center Chain Guide 96"
	25-8030-1	RH Center Chain Guide 48"
25	25-8021-1	Center Floor Chain Guide End Cap
26	25-8023-1	Right Floor End Cap
27	25-8019-1	Left Front Floor End Cap
28	100-8070	End Cap
29	825-3118-1.5	5/16-18x1-1/2" Self Threading Floor Screw
30	25-8203-1	Front Floor Cover

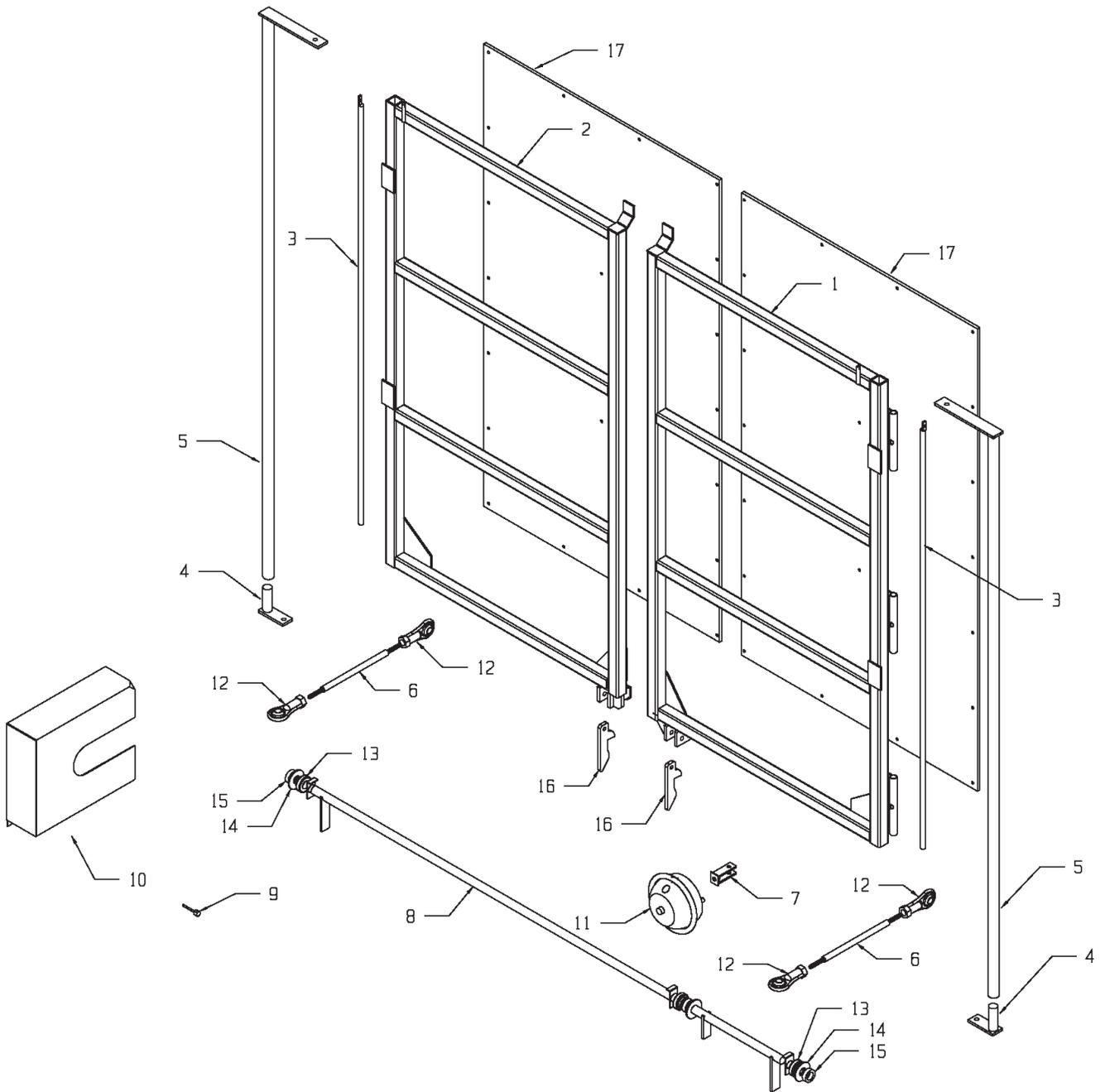
# REAR DOOR



## REAR DOOR

KEY	PART NO.	DESCRIPTION
1	851-5013-2.5Z	½-13 x 2.5 Hex Head Machine Bolt
2	828-0050-Z	½" SAE Flat Washer
3	100-8012-7	Back Gate Latch
4	814-5013-Z	½-13 Center Locknut
5	851-2520-.75Z	1/4-20 x .75 Hex Head Machine Bolt
6	49-0086	Back Gate Belting
7	25-8005-1	Belting Attaching Strip, Right Hand
8	25-8005-2	Belting Attaching Strip, Left Hand
9	100-8013	Back Gate Assembly Complete, (Standard Height Gate 82-1/2")
	100-8060	Back Gate Assembly Complete, (High Back Gate 94-1/2")
9A	100-8013-1	Back Gate Welded Assembly, (Standard Height Gate 82-1/2")
	100-8060-1	Back Gate Welded Assembly, (High Back Gate 94-1/2")
10	708-95.5-80.25	Fiberglass Plywood Panel, 95.5 x 80.25"
11	810-5013-Z	½-13 Spin Locknut
12	851-5013-1.5Z	½-13 x 1.5 Hex Head Machine Bolt
13	100-8012-15	Back Gate Hinge Weldment
14	100-8013-6	Gate Stop
15	815-5013-Z	½-13 Nylon Locknut
16	810-2520-Z	1/4-20 Spin Locknut
17	100-8062	Right Pivot Extension Assembly (High Gate Only)
18	100-8063	Left Pivot Extension Assembly (High Gate Only)
19	100-8060-1-7	High Gate Top Panel (High Gate Only)

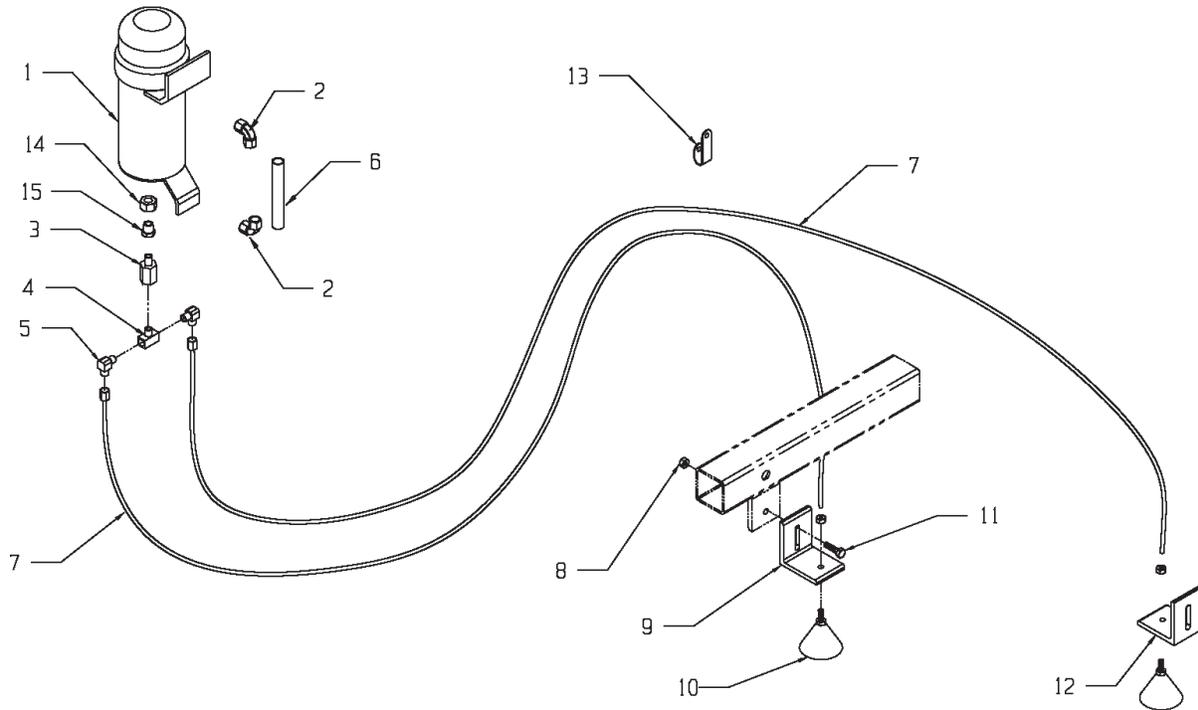
# OPTIONAL DOUBLE DOOR



## OPTIONAL DOUBLE DOOR

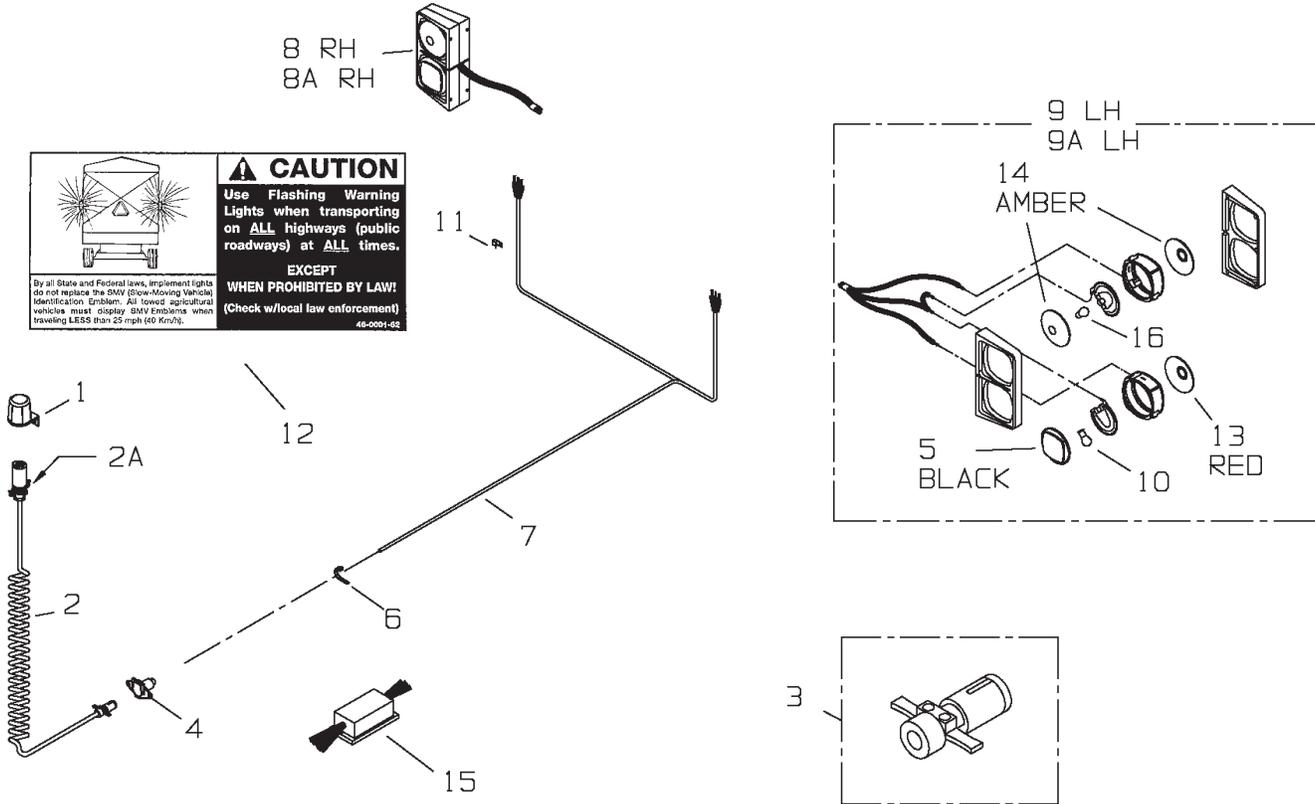
KEY	PART NO.	DESCRIPTION
1	100-8100-20	Right Hand Door Welded Assembly
	100-8100	Right Hand Door Complete
2	100-8101-20	Left Hand Door Welded Assembly
	100-8101	Left Hand Door Complete
3	100-8102	Double Door Gate Hinge Pin Weldment
4	100-8103	Double Door Bottom Linkage Arm Weldment
5	100-8104	Double Door Linkage Pipe Weldment
6	100-8105	Double Door Linkage Tie Rod Weldment
7	100-8106	Double Door Linkage Clevis Weldment
8	100-8107	Double Door Linkage Pivot Shaft Weldment
9	100-8108	Double Door Solenoid Mount Bracket
10	24-8100	Double Door #120 Chain Shield
11	55-0154	Double Door Air Chamber
12	16-0027	Double Door ½" Swivel Eyelet
13	14-0002-3	1-1/4" Bearing W/Lock Collar
14	14-0003-1	1-1/4" 2-Hole Pillow Block Flange
15	14-0003-2	1-1/4" 2-Hole Plain Flange
16	100-8100-6	Double Door Latch
17	100-8100-16	Door Panel
<b>THE FOLLOWING ITEMS ARE NOT ILLUSTRATED</b>		
	49-0033	Double Door Back Gate Belting 5" x 42"
	55-0150	3/8" Air Line (25' Required)
	55-0151	3/8" Hex Plug
	55-0152	3/8 x 3/8 x 90 Degree Elbow
	55-0153	3/8" x 1/8" Connector
	55-0155	12 Volt Solenoid Valve

## ROLLER CHAIN OILER



KEY	PART NO.	DESCRIPTION
1	33-8001-1	Oil Reservoir
	33-8002	8100 Oil Reservoir Complete w/Fittings
2	30-0015	1/4 x 90 Degree Elbow
3	33-8000-6	Ball Valve
4	33-8001-3	Brass Tee
5	33-8000-5	90 Degree Brass Compression Fitting
6	33-8001-2	Oiler Site Tube
7	952-0001-1-21	Tubing, 5/32" Nylon
8	810-3118-Z	5/16-18 Spin Locknut
9	33-8000-10	Brush Holder
10	952-0001-1-25	Brush Assembly with 5/32" Insert & 1/2-20 Nut
11	851-3118-1Z	5/16-18 x 1" Hex Head Bolt
12	33-8000-7	#80 Chain Brush Holder, 3/16x1-1/2x10-3/8"
13	08-0050	5/16" Loom Clamp
14	33-8001-4	1/8" NPT Nut
15	33-8001-5	1/8" NPT Nipple

# HIGHWAY TRANSPORT AG LIGHTS



**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)  
 46-0061-02

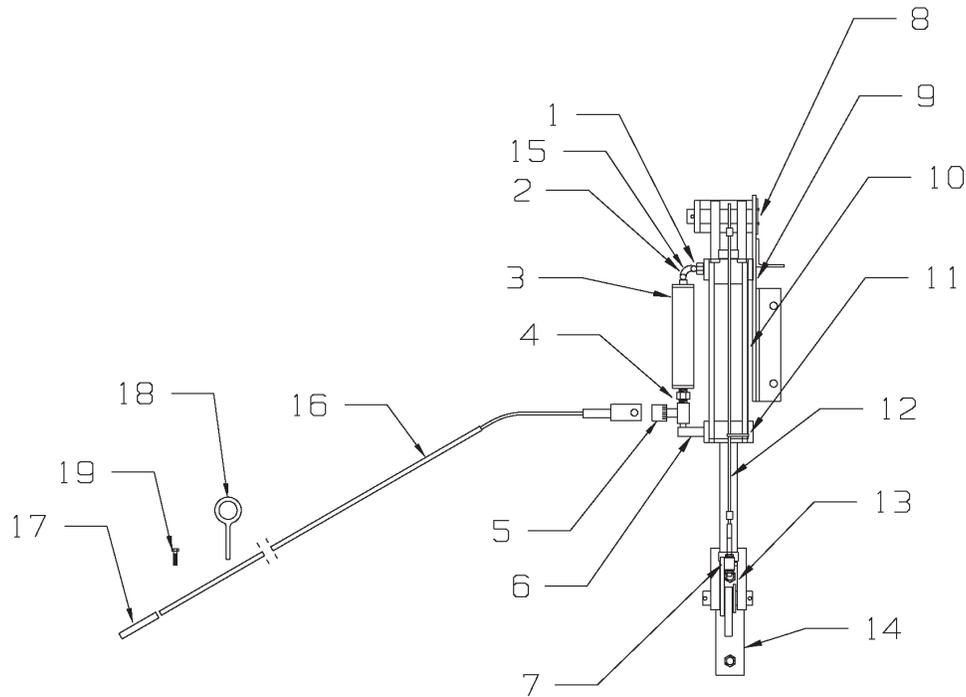
KEY	PART NO.	DESCRIPTION
1	56-0009	7-Way "Stor-A-Way" (Optional)
2	56-0005	Coil Cable Assembly (Optional)
2A	56-0012	7-Contact Plug End
3	56-0005-1	4 Pole Plug Only (Optional)
4	56-0004	#1232 4-Way Socket (4 Pin)
5	56-0001-3	Bezel Blank, Black
6	32-0026	14" Nylon Tie Strap
7	56-0003	Ag Light Harness w/Tri Plugs (Prior to Serial #0681201)
	56-0032	Ag Light Harness W/Module (Serial #0681201 & Later)
8	56-0002	Dual Light RH w/Tri Plug (Prior to Serial #0681201)
	56-0031	Dual Light RH w/4-Plug (Serial #0681201 & Later)
8A	56-0022	Truck Mount Dual Light RH w/Tri Plug (Prior to Serial #0681201)
	56-0031-TR	Truck Mount Dual Light RH w/4-Prong (Serial #0681201 & Later)
9	56-0001	Dual Light LH w/Tri Plug (Prior to Serial #0681201)
	56-0030	Dual Light LH w/4-Plug (Serial #0681201 & Later)
9A	56-0021	Truck Mount Dual Light LH w/Tri Plug (Prior to Serial #0681201)
	56-0030-TR	Truck Mount Dual Light LH w/4-Prong (Serial #0681201 & Later)
10	56-0001-4	#1157 Bulb
11	32-0024	3/8" Plated Loom Clip
12	46-0001-62	Caution Tail Light Decal
13	56-0001-2	Red Lens
14	56-0001-1	Amber Lens
15	56-0028	Tail Light Converter (Truck Mount Only)



## OPTIONAL GRAIN KIT

KEY	PART NO.	DESCRIPTION
1	25-8060	Grain Kit Main Body
2	25-8061	Grain Kit Gate Weldment
3	124	1" Pillow Block Bearing
4	323	1" Lock Collar
5	10-0001	Sprocket 50B13, 1" Bore, 1/4" Keyway
6	23-0099	Gate Shaft 1" x 32"
7	851-3816-2Z	3/8-16 x 2" M.B. Zinc
8	15-0006-1	Universal Knuckle
9	15-0006-2	Universal Sleeve Assembly
	15-0006	Complete Universal Knuckle/Sleeve Assy.
10	815-3816-Z	3/8-16 Nylon Insert Locknut
11	25-8062	Grain Kit Door Handle
12	25-8027	Handle Lock Chain
13	49-0089	Plexiglas Window 2-1/2" Radius
13A	33-0049	Window Weather-strip (By the Foot) (Not Shown)
14	49-0087	Poly Bottom Panel
15	25-8078	R.H. Gate Stop Weldment Hi/Lo Gate (Prior to Serial #0781239)
	25-8178	R.H. Gate Stop Hi/Lo Gate (Serial #0781239 & Later)
16	25-8079	L.H. Gate Stop Weldment Hi/Lo Gate (Prior to Serial #0781239)
	25-8179	L.H. Gate Stop Hi/Lo Gate (Serial #0781239 & Later)
17	49-0036	L.H. Chain Return Seal
18	49-0035	R.H. Chain Return Seal
19	25-8067-1	Chain Return Seal Mount Strap
20	52-0005-2	24" Broom (Prior to Serial#0781239)
	52-0005-6-1	35-1/2" Broom Notched (Serial #0781239 & Later)
21	100-8013-6	Rear Gate Stop
22	851-5013-1.5Z	1/2-13 x 1-1/2" M.B. Zinc
23	815-5013-Z	1/2-13 Nylon Insert Locknut Zinc
24	52-0005-3	18-1/2" Broom (Prior to Serial #0781239)
	52-0005-6-3	7-3/4" Left Inner Broom (Serial #0781239 & Later)
	52-0005-6-4	12-1/4" Right Inner Broom (Serial #0781239 & Later)
	52-0005-4	Right Inner 21" Broom (Prior to Serial #0781239)
25	49-0088	Side Gate Belting Seal 1/8 x 2 1/2 x 66"
26	57-0009-2	S-Hook
27	33-0028	Handle Nut
28	811-5013-4Z	1/2 x4" Eyebolt (6" Overall)
29	25-8065	Seal Gasket (Prior to Serial #0781239)
	25-8060-26	Lower Side Seal Filler Panel (Serial #0781239 & Later)
30	25-8066	Main Roller Center Mount Cover
31	25-8060-21	Rear Belting Seal Metal Strip
32	49-0042	Rear Belting Seal
33	25-8060-27	Side Seal Filler Panel (Serial #0781239 & Later)
34	25-8060-23	Rear Light Mount Bracket
35	56-0050	Light Harness and Lamp Kit
	56-0050-1	Center Lamp Bar Only
	56-0050-2	Left Rear Lamp Only
	56-0050-3	Harness Only
	56-0050-4	Right Rear Lamp Only
36	56-0051	Light Harness Jumper-Y-Plug Assy.

## GATE DELAY PACKAGE (#8100 - GATE) (PRIOR TO SN 0781253)



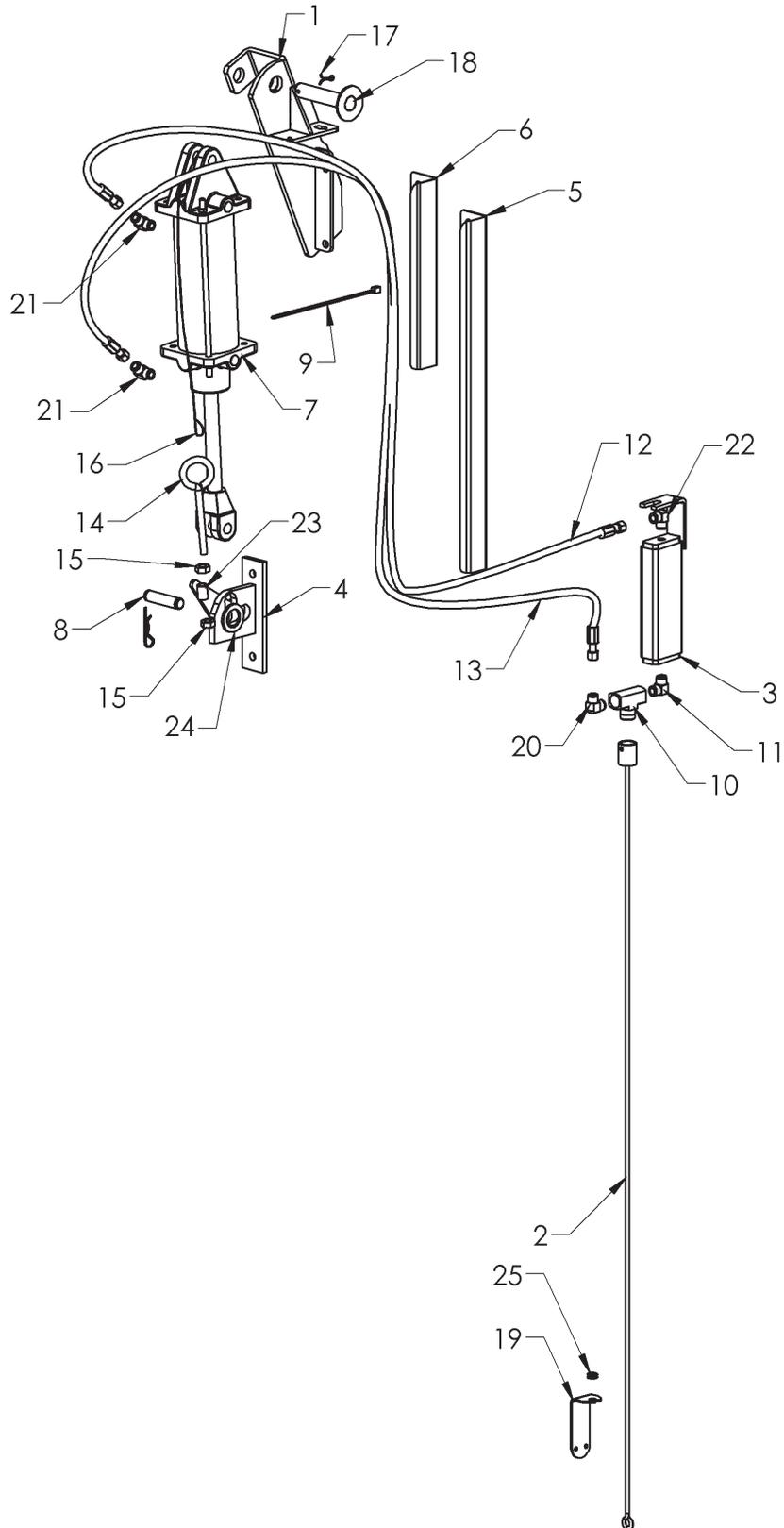
### GATE DELAY INSTRUCTIONS & ADJUSTMENTS

The purpose of the gate delay system is to hold the rear swinging gate in the open position until the apron has cleaned all of the forage out of the box. By adjusting the flow control the speed in which the gate closes can be regulated. When the flow control is properly adjusted the gate will slowly close as the remainder of the forage is being unloaded. Once the box is completely unloaded the gate delay will reach a trip position with the trip arm moving the lower cylinder shaft out of the horizontal slot and allow the gate to trip closed and latch. For proper operation adjust as follows. When the gate is completely closed (tight to rear upright) the cable and eyebolt assembly should be adjusted so the cable has no slack. Cable should be tight but not over tightened. If cable and eyebolt is over tightened the lower cylinder will trip out of the L-shaped slot on the lower bracket prematurely and the gate will try to close before the cylinder is fully extended. If the cable and eyebolt is too loose the lower cylinder will not trip out of the L-shaped slot and the cylinder will reach its maximum stroke and the trip arm will still not be in the tripped position allowing the gate to close. The gate will be held open by the top cylinder bracket and the bracket may become damaged over time. The eyebolt and cable will need to be adjusted periodically to maintain proper operation.

**GATE DELAY PACKAGE (#8100 - GATE)  
Used prior to SN 0781253**

<b>KEY</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>
1	55-0095	1/8" to 3/8" NPT Reducer
2	30-0015	1/4x90 Degree Elbow
3	25-8095	Oil Reservoir Assembly
4	55-0097	3/8 to 3/8" Hydraulic Nipple
5	55-0094	Flow Control Valve
6	55-0096	3/8 NPT x 90 Degree Male Pipe Elbow
7	25-8096	Gate Release Trip Arm Assembly
8	25-8092-1	Gate Regulator Top Shaft Assy.
9	25-8090-1	Top Cylinder Bracket Assy.
10	55-0093	Hydraulic Cylinder
11	952-0007-1	7-1/4" Nylon Tie Strap
12	25-8098	Cable/Eyebolt Assy.
13	25-8097-1	Lower Sleeve Spacer
14	25-8093-1	Lower Shaft Plate Assy.
15	25-8095-6	Top Copper Line Assy.
16	25-8101	Ground Control Rod Assy. W/Grip
17	51-0007	Handle Grip
18	933-3804	5/16 x 4" Eyebolt
19	825-25-1Z	1/4x1" Self Tapping Screw

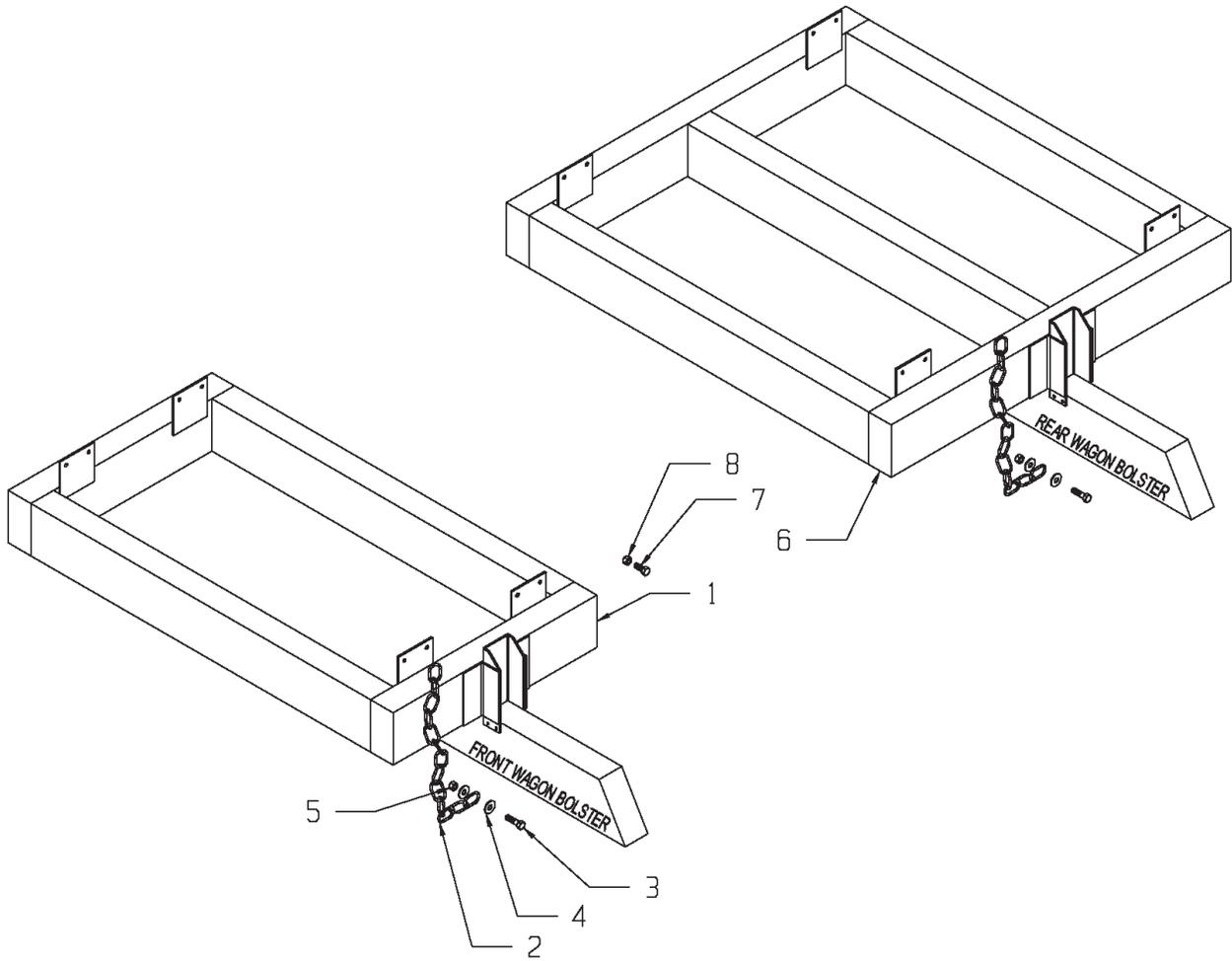
# GATE DELAY PACKAGE (#8100 - GATE) (SN #0781253 & LATER)



**GATE DELAY PACKAGE (#8100 - GATE)  
SN #0781253 & Later**

KEY	PART NO.	DESCRIPTION	QTY.
1	25-8090-1	8100 GATE TOP CYLINDER BRACKET	1
2	25-8105	SIDE MOUNT GRND CONT ROL ROD	1
3	25-8104	SIDE MOUNT OIL RESEVOIR	1
4	25-8093-1	8100 GATE LOWER SHAFT BRACKET	1
5	24-8009	SIDE MT OIL RES 12" HOSE SHIELD 25-1/2"	AR
6	24-8010	SIDE MNT OIL RES HOSE SHIELD 13-1/2"	AR
7	55-0093	HYD CYLINDER 2" BORE 8" STROKE 18-1/4"	1
8	955-3802-10	CYLINDER PIVOT PIN WITH CLIP	1
9	952-0001-7	NYLON TIE STRAPS	1
10	55-0094	FLOW CONTROL	1
11	55-0096	3/8" NPTF 90* MALE PIPE ELBOW	1
12	55-0193	1/4"x 52" LONG HOSE HI GATE W/EXT	AR
	55-0192	1/4"x 40" LONG HOSE REG GATE NO/EXT	AR
13	55-0194	1/4"x 62-1/2" LONG HOSE HI GATE W/EXT	AR
	55-0193	1/4"x 52" LONG HOSE REG GATE NO/EXT	AR
14	811-3816-3Z	3/8-16x3" EYEBOLT ZINC	1
	25-8098	GATE TRIP CABLE ASSEMBLY W/EYEBOLT	1
15	810-3816-Z	3/8 SPIN LOCK NUT	2
16	36-0009	1/8" STAINLESS AIRCRAFT CABLE (BY THE FT)	2.41
17	823-19-2	3/16X2" COTTER PIN	1
18	25-8092-1	REAR GATE TOP SHAFT ASSY.	1
19	25-8106-1	GROUND CONTROL ROD BRACKET	1
20	55-0196	3/8Mx1/4" SWIVEL FEMALEx90 ELBOW	1
21	55-0195	3/8 MALE-1/4FEMALE STREET ELBOW	2
22	55-0191	1/4" MALE TO 1/4" FEMALE SWIVEL COUPLER	1
23	25-8096	GATE RELEASE TRIP ARM ASSEMBLY	1
24	25-8097-1	GATE LOWER SLEEVE SPACER	1
25	33-1003	RUBBER GROMMET	1

## OPTIONAL WAGON MOUNT KIT (#8100 - WAGON)



KEY	PART NO.	DESCRIPTION
1	25-8025	Wagon Mount Weldment - Front
2	75-0341-4-HD	Chain, 61" Long
3	851-3816-1.5Z	Bolt, 3/8-16 x 1.5 Hex Head Machine Bolt
4	805-0038-Z	Washer, 3/8" Flat
5	814-3816-Z	Nut, 3/8-16 Center Lock
6	25-8026	Wagon Mount Weldment - Rear
7	851-5013-1.25Z	Bolt, 1/2-13 x 1.25 Hex Head Machine Bolt
8	815-5013-Z	1/2-13 Nylon Locknut



## “SPECIFICATIONS”

Truck Mount Models	8118	8120	8122	8124
<b>DIMENSIONS</b>	<b>REAR UNLOAD</b>			
Inside Length	18'	19'-4"	22'	24'8"
Inside Width	97"	97"	97"	97"
Inside Height	72.5"	72.5"	72.5"	72.5"
Overall Length	18'9"	20'1"	22'9"	25'5"
Overall Width	102"	102"	102"	102"
Overall Height - Tailgate	103"	103"	103"	103"
Overall Side, Height w/6" Stringers	90"	90"	90"	90"
Weight	6100#	6520#	7120#	7760#
Stringer Width (Truck Mount)	33-1/2"	33-1/2"	33-1/2"	33-1/2"
Capacity (Struck level) cu. ft.	880	978	1075	1200
<b>SPECIFICATIONS</b>				
Maximum Net Load	25 ton	25 ton	25 ton	25 ton
Roller Chain Drive - Aprons	80 - 120	80 - 120	80 - 120	80 - 120
Apron Chains (Pintle)	667XH	667XH	667XH	667XH
HP Requirements (Min.) - Truck	50 HP	50 HP	50 HP	50 HP
Rear Drive Shaft - Heavy Duty	2-1/2" Hvy Tubing	2-1/2" Hvy Tubing	2-1/2" Hvy Tubing	2-1/2" Hvy Tubing
Upright Spacing	16" on center	16" on center	16" on center	16" on center
Upright Constructions	2" x 2" Tubing	2" x 2" Tubing	2" x 2" Tubing	2" x 2" Tubing
Power Source (540 RPM)	PTO or Hyd.	PTO or Hyd.	PTO or Hyd.	PTO or Hyd.
Unloading Time (PTO)	30 sec.	30 sec.	30 sec.	30 sec.
<b>OPTIONS</b>				
All Fiberglass Plywood Sides	STD.	STD.	STD.	STD.
All Superslick Floor	STD.	STD.	STD.	STD.
Automatic Roller Chain Tighteners	STD.	STD.	STD.	STD.
Automatic Rear Door Latching	STD.	STD.	STD.	STD.
Front Gate Viewing Window	STD.	STD.	STD.	STD.
Semi-Automatic Roller Chain Oiler	STD.	STD.	STD.	STD.
Tandem Axle Tire Fenders	STD.	STD.	STD.	STD.
Transport ag. Lights	STD.	STD.	STD.	STD.
Roll Tarp Cover	OPT.	OPT.	OPT.	OPT.
Personalized Farm Name on Sides	STD.	STD.	STD.	STD.
Truck Mount Tie Down Kit/Factory Mount	OPT.	OPT.	OPT.	OPT.

MEMBER



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# NOTES

