

OPERATORS AND PARTS MANUAL NO. PB-2WAY-6200  
FOR  
6200 SERIES

# **MEYER**

## **TSS VARIABLE SPEED MODEL**

### **Front & Rear Unload Forage Boxes**

**with Independent Outfeed Clutch**

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

### **6200 SERIES:**

**Model 6220**  
**Model 6222**  
**Model 6224**



MEMBER



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

Manufactured by  
**Meyer Mfg. Corp.**

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# 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 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 plate is found near the control levers on your forage box and stamped in the front corner of the left hand end frame.

**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.

## HOW TO READ YOUR SERIAL NUMBER

Your serial number is stamped above the discharge opening on the unit discharge end frame.

Example: 11T3242

Model Year / TSS / Model / Sequence of Build

↓        ↓        ↓        ↓  
11      T      3        242

**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.

**IMPORTANT:** The standard forage box header unit discharges to the LH side and the parts illustrations depict these units. If you have an optional RH unit, always specify the part number shown in this book followed by -RH. Nearly all header parts appear similar to the standard unit but are really mirror images. Box parts are all identical. If you specify -RH and there is no difference in the item you wish to order, this will be properly interpreted at the factory and will not cause any problem.

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**MANUFACTURER'S WARRANTY**

- I. The "Product Registration & Inspection Certificate" along with the original billing invoice "Owner's 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:

Two (2) Years:

      - a. The 6200 Series enclosed main apron drive Superior gearbox assembly, Meyer #19-0061 and 19-0161.
      - b. The D667X 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 bolted or all welded steel frame box structure.
      - b. The galvaneal steel painted panels which comprise the sides and rear of the box portion (not front unit) of the forage box, upon evidence satisfactory to Meyer Mfg. Corp., that any such panel either rusted or corroded through or cracked or split.
- 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.
- VIII. This warranty is effective on all sales of Meyer Forage Boxes made after serial #05T3201.

Tires, optional scales and tarps fall under the original manufacturer's warranty.

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# 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.**

The emergency stop mechanism stops only the front unloading unit from operating and not the rear unloading operation of the forage box! Trip the emergency stop regularly with the trip cables to ensure that it will shut the front unloading unit down in an emergency.

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.

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

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

DO NOT clean, adjust or reset the emergency stop while the forage box 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 unloading unit 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.

Stay well clear of the cross conveyor and discharge opening while operating.

DO NOT step up on any part of the forage box at any time. DO NOT use the 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 damaged or missing shields.

Match the right tractor PTO spline and speed with the PTO driveline provided with the implement. Never operate PTO above normal 540 RPM rating. Never connect forage box PTO shaft to a 1000 RPM tractor PTO. Never use a spline adapter.

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

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.

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.

MEYER MFG. CORP. PROVIDES GUARDS FOR EXPOSED MOVING PARTS FOR THE OPERATOR'S PROTECTION; HOWEVER, SOME AREAS CAN NOT 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



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



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



**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.



See page 10 for decals.

M

E



**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 TRACTOR AND FORAGE BOX CONTROLS.**



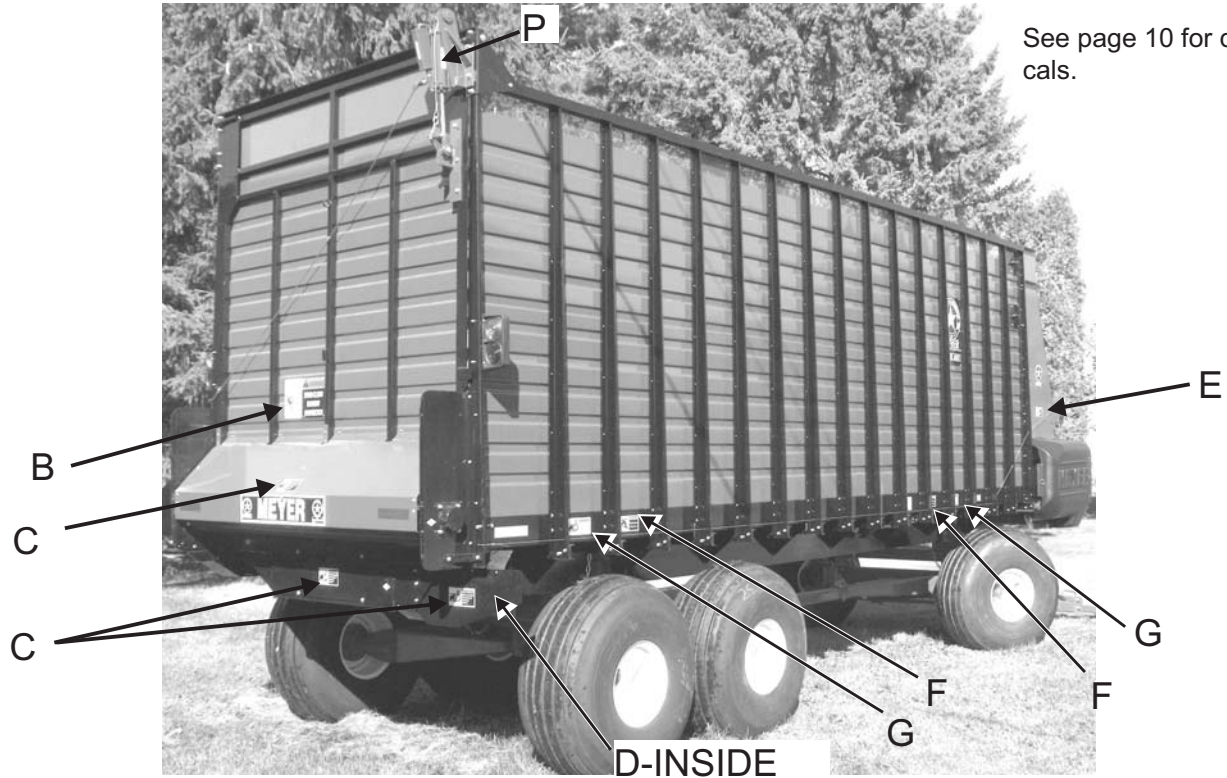
# SAFETY FIRST



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.**



**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 TRACTOR AND FORAGE BOX CONTROLS.**

# DECALS - 6200

## Warning Push For Emergency Stop

A - 46-0001-14 & 46-0001-15



B - 46-0011



C - 46-0001-4



D - 46-0001-26



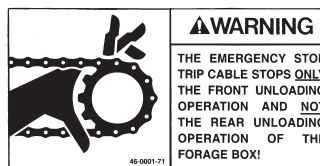
H - 46-0001-72



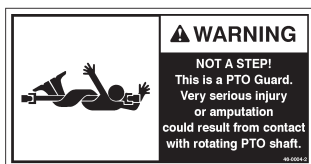
E - 46-0001-5



F - 46-0001-20



G - 46-0001-71



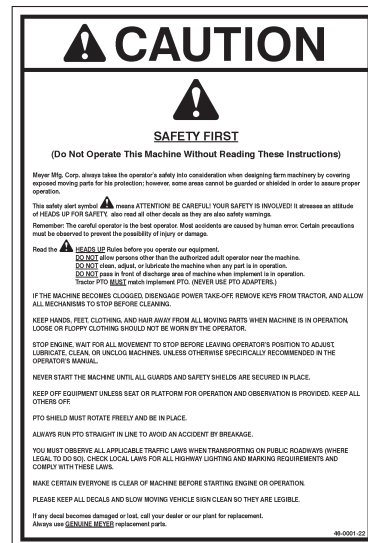
I - 46-0004-2



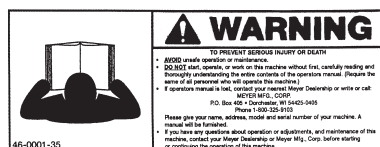
J - 46-0001-13



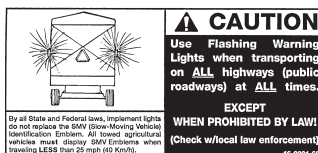
K - 46-0001-33



N - 46-0001-22



L - 46-0001-35



M - 46-0001-62

See pages 8 & 9 for decal locations.

**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 TRACTOR AND FORAGE BOX CONTROLS.

# ! WARNING:

**! WARNING: IF FOR ANY REASON THE EMERGENCY STOP MECHANISM DOES NOT FUNCTION PROPERLY, DO NOT USE THE MACHINE UNTIL IT IS REPAIRED. FAILURE TO HEED MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.**

## OPERATION OF THE EMERGENCY STOP

Across the upper edge of the front unloading unit is a “Warning Push For Emergency Stop” pushbar. By pushing on this bar during front unloading operation only, the forage box will shut down in an emergency.

Emergency stop trip cables connected to the “Emergency Stop” pushbar extend along both sides and down the front of the forage box. Pulling on these trip cables will also shut down the front unloading unit of the forage box in an emergency.

**Note: The emergency stop mechanism DOES NOT STOP the PTO drive shaft, nor the rear unloading operation of the forage box.**

**! WARNING: THE EMERGENCY STOP MECHANISM STOPS ONLY THE FRONT UNLOADING UNIT FROM OPERATING AND NOT THE REAR UNLOADING OPERATION OF THE FORAGE BOX!**

## EMERGENCY STOP TRIP LOCATIONS



EMERGENCY STOP TRIP CABLES EXTENDING ALONG BOTH SIDES

EMERGENCY STOP TRIP CABLE UP FRONT

## RESETTING THE EMERGENCY STOP

**! WARNING: DO NOT RESET THE EMERGENCY STOP MECHANISM UNTIL ALL PEOPLE, TOOLS AND OTHER OBJECTS ARE WELL CLEAR OF THE FORAGE BOX. FAILURE TO HEED MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.**



### INDEPENDENT OUTFEED CLUTCH CONTROL LEVER

To reset the emergency stop mechanism, fully engage the INDEPENDENT OUTFEED CLUTCH control lever into the “RUN” position.

Check frequently to be assured that the emergency stop mechanism is in proper operating condition. Slowly engage the tractor PTO and operate the forage box at an idle speed to ensure it is operating properly. Push the emergency stop bar across the upper edge of the front unloading unit, to ensure that the forage box can be shut down in an emergency.

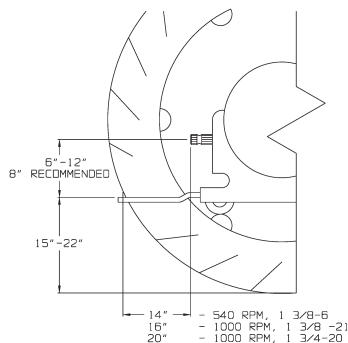
Reset the emergency stop and recheck using the emergency stop trip cables at various locations to ensure that the forage box can be shut down in an emergency. Periodically repeat emergency stop inspections during the operating season and at all times keep excessive slack out of the emergency stop trip cables.

## PRE-OPERATION

Be certain your forage box is properly mounted to the running gear. Consult your dealer if you have any questions about the tie down kit from the manufacturer and illustrated in the parts listing of this manual.

**DO NOT** fill the cross conveyor unloading area with forage to get extra capacity. Overloading puts unnecessary pressures and strains on the cross conveyor and auger drive.

This forage box is to be operated with 540 rpm PTO ONLY. No PTO adaptor may be used to alter speed or geometry. Set your tractor drawbar to conform to the standard dimensions as shown on the following illustration. This will ensure that the PTO drive shaft will not be over extended.



**DRAWBAR & PTO RELATIONSHIP**

**! DANGER: DO NOT OPERATE WITHOUT PTO GUARD ON MACHINE AND ON TRACTOR. 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

Always disconnect the PTO drive shaft from the tractor and return it to the PTO storage bracket on the unloading unit before transporting. Failure to do this may result in equipment damage.

If you have a fold down cross conveyor extension, always transport with this extension folded up to reduce your width. Check and observe that the rear discharge door is completely latched closed before traveling on roadways.



**FOLD DOWN CROSS CONVEYOR EXTENSION**

**! 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.

46-0900-5

**! 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.

46-0900-6

**! 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.

46-0900-7

**! 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.**



IMPORTANT: Support hoses on Hose Holder Bracket to relieve weight & stress from hose tip holder.

### PROPER PTO DRIVE SHAFT AND HYDRAULIC HOSE STORAGE

Your running gear 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 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.

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 ad-

dition to traffic rules. You will also be required to install a safety chain device on the running gear.

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

|   |   |
|---|---|
|   | <p><b>CAUTION</b><br/>Use Flashing Warning Lights when transporting on <u>ALL</u> highways (public roadways) at <u>ALL</u> times.<br/><b>EXCEPT WHEN PROHIBITED BY LAW!</b><br/>(Check w/local law enforcement)</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.

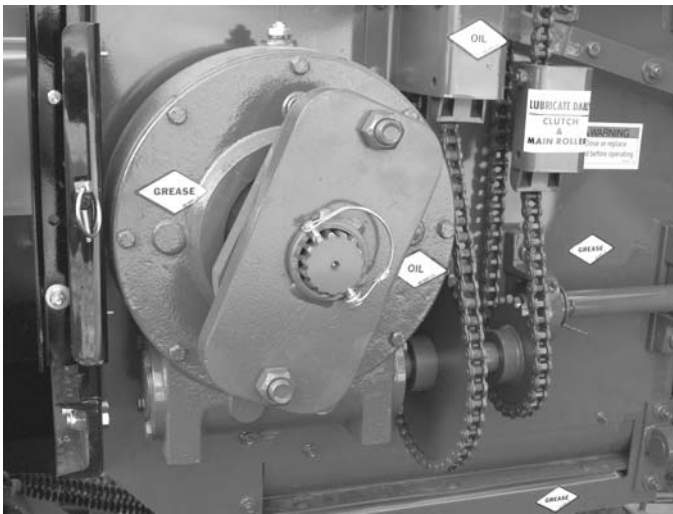
# TRUCK MOUNT FORAGE BOXES

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.

## FRONT UNLOAD DRIVE COUPLER “SET-UP” (PTO OR HYDRAULIC DRIVE)



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

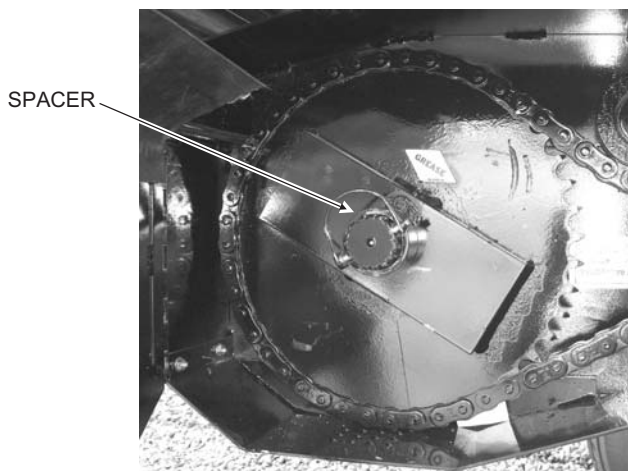


### STEP 1

Install Coupling Plate and snap pin onto the large gearbox assembly, splined shaft at the FRONT of the forage box.

(Shield Removed For Illustration Purposes Only)

### COUPLING PLATE



(Shield Removed For Illustration Purposes Only)

### SLEEVE SPACER

### STEP 2

### IMPORTANT! (MUST PERFORM)

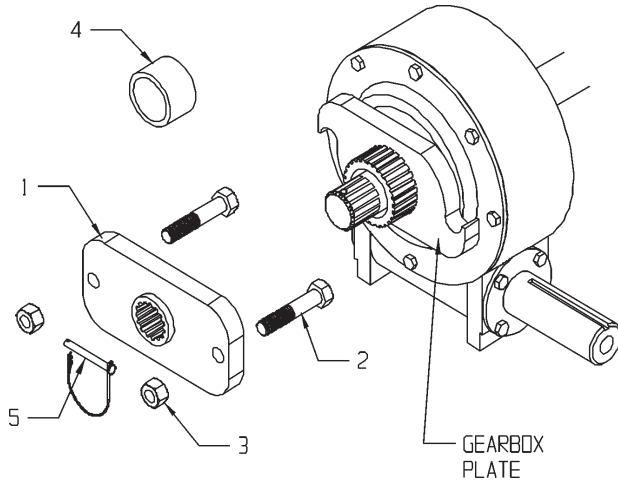
Install sleeve spacer and snap pin onto the hydraulic drive gearbox at the REAR of the forage box. The internal splined shaft will be idling in reverse and the gearbox quill zerk must be greased daily.



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


Operating Procedures: See Front Unload “VARIABLE SPEED OPERATION with IOC” Page 18

**#37-0010 COUPLING PLATE ASSEMBLY COMPLETE**



| KEY | PART NO.   | DESCRIPTION                           |
|-----|------------|---------------------------------------|
| 1   | 37-0015    | Splined Drive Plate                   |
| 2   | 831-7516-2 | Drive Bolt, 3/4-16 x 2 Allen Head GR8 |
| 3   | 844-7516   | 3/4-16 Flange Top Lock Nut            |
| 4   | 43-0025    | Idler Sleeve Spacer                   |
| 5   | 823-0004   | Snap Pin                              |

## REAR UNLOAD DRIVE COUPLER “SET-UP” (PTO OR HYDRAULIC DRIVE)

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



(Shield Removed For Illustration Purposes Only)  
**COUPLING PLATE**

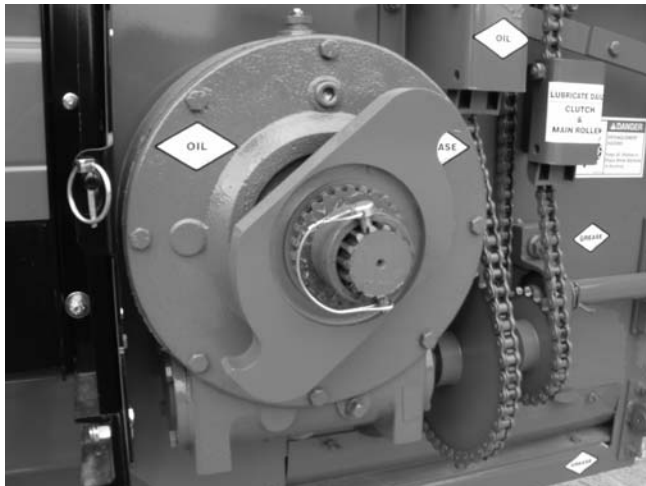
### **STEP 1**

Install Coupling Plate and snap pin onto the large gearbox assembly on the splined shaft at the REAR of the forage box.

**NOTE:** The rear unloading gearbox and hydraulically driven motor, hydraulic return line features a check valve to protect and prevent any accidental damage by mistakenly, or incorrectly coupling hydraulic hoses to the tractor. The check valve is equipped with a reverse flow feature which will allow the box to run in a reverse direction for drive plate removal. Reverse hydraulic flow approximately 10-15 seconds to rotate gearbox drive plate away from the removable drive plate. **DO NOT RUN IN REVERSE FOR UNLOADING!**

### **STEP 2 IMPORTANT! (MUST PERFORM)**

Install sleeve spacer and snap pin onto the large gearbox assembly, splined shaft at the FRONT of the forage box. The internal splined shaft will be idling in reverse and the gearbox quill zerk must be greased daily.



(Shield Removed For Illustration Purposes Only)  
**SLEEVE SPACER**

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

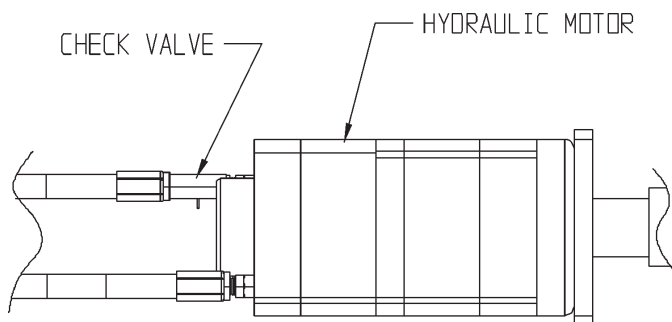


**INDEPENDENT OUTFEED CLUTCH LEVER**

### **STEP 3**

Move the Independent Outfeed Clutch lever to “STOP” (UP).

**NOTE:** The PTO driven independent outfeed clutch can be used to clean out accumulation of forage from the front unit cross conveyor without changing the drive coupler for forage box rear unloading.



**HYDRAULIC CHECK VALVE AT REAR OF BOX**

### **STEP 4 (HYDRAULIC DRIVE)**

Couple both supply and return line hydraulic hoses of the forage box to the hydraulic outlets of the towing tractor.

**NOTE:** The rear unloading gearbox and hydraulic driven motor, hydraulic return line features a check valve to protect and prevent any accidental damage by mistakenly, or incorrectly coupling hydraulic hoses to the tractor. The check valve makes it impossible to run the main apron chain in the wrong direction and cause damage to the forage box.

**Operating Procedures: See “REAR UNLOAD OPERATION” (HYD or PTO) Page 21**

# FRONT UNLOAD VARIABLE SPEED OPERATION WITH INDEPENDENT OUTFEED CLUTCH

## FORAGE BOX CONTROL LEVERS



**WARNING: NEITHER THE VARIABLE SPEED NOR THE HI-LO RANGE CONTROL LEVER WILL DIS-ENGAGE THE CROSS CONVEYOR. ONLY THE TRACTOR PTO, INDEPENDENT OUTFEED CLUTCH, OR EMERGENCY STOP MECHANISM WILL STOP THE CROSS CONVEYOR. FAILURE TO HEED MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.**

Facing the front of the forage box, the lower most RH control lever is the INDEPENDENT OUTFEED CLUTCH control. Moving this control lever down into the “Run” position engages the cross conveyor and main drive mechanism. Engage this control lever into the “Run” position for normal operation. Once this control lever is engaged, it acts as the emergency stop when pushing on the “Warning Push for Emergency Stop” push bar or when pulling on the emergency stop trip cables.

The LH control lever is the VARIABLE SPEED control. Moving this control lever regulates rotational speed of the unloading augers and the forward speed of the main apron chains, in conjunction with the HI-LO RANGE control. At the uppermost notch on the control quadrant, the VARIABLE SPEED control is in “Neutral” position. In this position, neither the main apron chains advance, nor do the unloading augers rotate under load, regardless of the position of the HI-LO RANGE control. Moving the VARIABLE SPEED control lever down on the control quadrant increases speed of both auger rotation and main apron chain forward travel.

The RH control lever is the HI-LO RANGE control. Center detent is the “Neutral” position. Shifting the lever up on the control quadrant is “LO” RANGE and shifting the lever fully down is “HI” RANGE. Range selection affects the forward speed of the main apron chains only. In the “Neutral” position, the main apron chain does not travel forward.

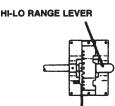
DECAL #46-0001-64

### OPERATING PROCEDURE

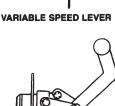
NOTE: The VARIABLE SPEED, HI-LO RANGE, and OUTFEED CLUTCH levers must be in the “Neutral” position when engaging and disengaging the PTO drive shaft (or optional hydraulic drive). All forage box control lever selections are to be made while the PTO (or hydraulic) power is in operation. If the control levers are engaged before power is applied, damage may occur to the Variable Speed drive and the Outfeed Clutch drive. Failure to follow correct operating procedures may cause equipment damage and void the manufacturer's warranty.

1. Park the forage box so the discharge cross conveyor is in alignment with the silo filling blower hopper. Park the forage box and tractor in a straight line to prevent wearing of PTO drive shaft joints. Lower forage box cross conveyor extension if equipped.
2. Check that the OUTFEED CLUTCH lever is in the “Stop” position, and the VARIABLE SPEED & HI-LO RANGE levers are the “Neutral” position.
3. Slowly engage the tractor PTO and set the engine speed from 1300-1500 rpm, which should give a PTO speed of 300-375 rpm.
4. Slowly engage the OUTFEED CLUTCH lever to the “RUN” position and allow the cross conveyor to empty out any accumulation of forage in the front unit of the forage box. After the forage has emptied, fully engage and lock down the OUTFEED CLUTCH lever into the “RUN” position.
5. Slowly engage the VARIABLE SPEED lever to clear forage from the three unloading augers. Quickly, but gradually engage and disengage this lever as needed to free the augers from forage, and then keep the augers turning.
6. With the Variable Speed lever in a slow speed selection, slowly engage the HI-LO Range lever to “LO” and the main aprons will begin to move forward. Increase speed of the Variable Speed lever to regulate rate of forage box unloading speed to match capacity of silo filling blower. **DO NOT START AND UNLOAD FULL LOADS IN “HI” RANGE!** Use “HI” RANGE for main apron “cleanout” all small or partial loads.
7. When unloading is complete, slowly return the VARIABLE SPEED lever to the “Neutral” position and then the HI-LO RANGE lever to the “Neutral” position. Then, disengage the OUTFEED CLUTCH lever to the “STOP” POSITION. Idle down the tractor engine rpm and shut off the tractor PTO lever. Disconnect the PTO shaft from the tractor and secure it in the PTO hanger bracket at the front of the forage box. If the forage box is equipped with a cross conveyor extension, raise it up to the transport position.


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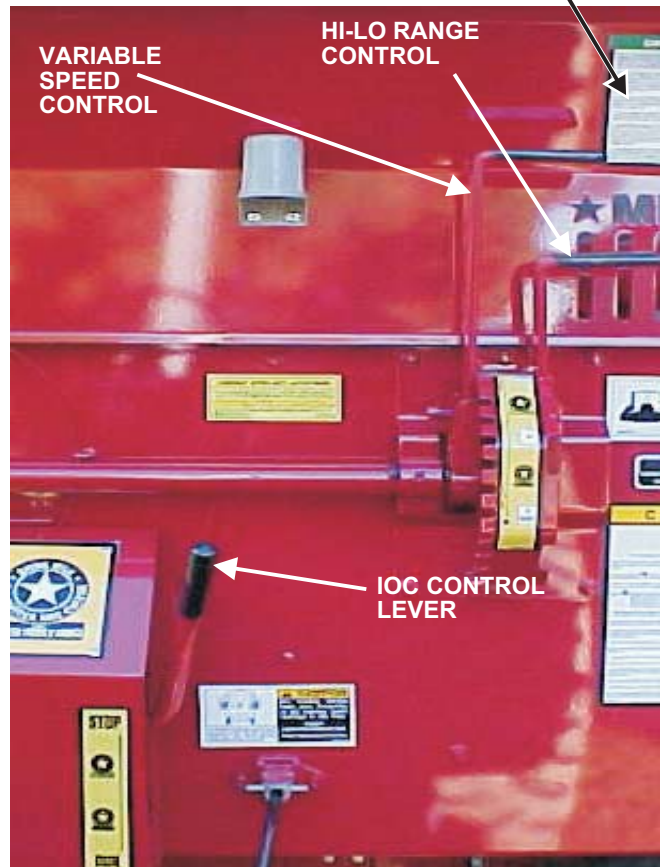
HI-LO RANGE LEVER



VARIABLE SPEED LEVER



OUTFEED CLUTCH LEVER



Three levers control operating the front unloading unit of the forage box.

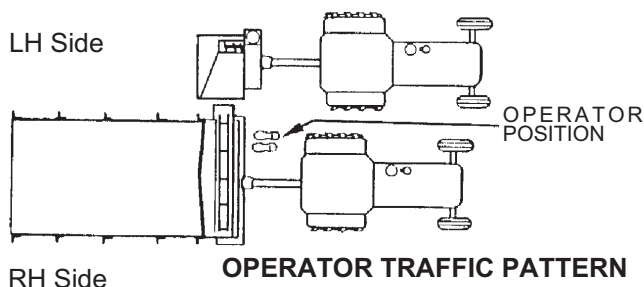
1. INDEPENDENT OUTFEED CLUTCH - IOC
2. VARIABLE SPEED
3. “HI-LO RANGE”

## UNLOADING THE FORAGE BOX

Pull the forage box into position and park so that the cross conveyor discharge opening is in alignment with the silo filling blower hopper. If the forage box is equipped with a fold down cross conveyor extension, it can be lowered before pulling in front of the blower. After a couple of parking trails, you may become familiar with the correct parking place and be able to lower the cross conveyor extension after parking. 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" and set the brakes.

**NOTE:** Normal operation is using a farm tractor. If using some other vehicle, exercise equivalent caution when parking and exiting this vehicle.

Properly dismount from the tractor and approach the forage box by walking along the left side of the tractor as shown in the following diagram. Do not approach the forage box from the right side of the machine (left hand unload). Approach the left front area of the forage box, as this is where the control levers are located. Standing in the operator position will not require crossing the PTO drive shaft at any time during the unloading operation.



**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: 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.**

## START UP PROCEDURES

Remove PTO drive shaft from the forage box PTO storage bracket and connect to the tractor PTO. Be sure the PTO yoke is securely locked to the tractor PTO. If using an optional hydraulic drive, couple the hydraulic hoses to the power supply.

Check that the INDEPENDENT OUTFEED CLUTCH control lever is in the "Stop" position and the VARIABLE SPEED & HI-LO RANGE control levers are in the "Neutral" positions.

**NOTE:** The INDEPENDENT OUTFEED CLUTCH, VARIABLE SPEED, and HI-LO RANGE control levers must be in their "Stop" or "Neutral" positions when engaging and disengaging the PTO drive shaft (or optional hydraulic drive). All forage box control lever selections are to be made while the PTO (or hydraulic) power is in operation. If the control levers are engaged before power is applied, damage may occur to the Variable Speed drive or Independent Outfeed Clutch drive or both. Failure to follow **correct** operating procedures may cause equipment damage and may void the manufacturers warranty.

At this time, start the silo filling blower. Return to the forage box unloading tractor, slowly engage the PTO, and set the engine speed from 1300-1500 rpm. to give a PTO speed of 300-375 rpm.

Return to the operator's position adjacent to the forage box controls. Intermittently engage the INDEPENDENT OUTFEED CLUTCH control lever to the "Run" position and allow the cross conveyor to empty out any accumulation of forage in the front unloading unit. After the forage has emptied, fully engage the INDEPENDENT OUTFEED CLUTCH control lever into the "Run" position.

Next, engage the VARIABLE SPEED control lever to clear forage from the three unloading augers. Intermittently move the lever between "Neutral" and the 1<sup>st</sup> and/or 2<sup>nd</sup> notch settings on the control quadrant. This will engage and disengage the augers at a slow speed to clear them without the main apron moving forward; because the HI-LO RANGE control lever is still in "Neutral."

With the augers cleared and running and the VARIABLE SPEED control lever in a slow speed setting, move the RANGE control lever to "LO" and the main apron chain will begin to move forward. Moving the VARIABLE SPEED control lever

down on the control quadrant will increase speed of both auger rotation and main apron forward travel. Keep increasing speed of the VARIABLE SPEED control to regulate rate of forage box unloading speed to match the capacity of the silo filling blower. Slow up, but do not stop the VARIABLE SPEED control when shifting to “HI” RANGE.



**CAUTION: YOU CAN MOVE THE RANGE CONTROL LEVER TO “HI” FOR CLEAN-OUT AT THE END OF UNLOADING AND YOU MAY ALSO FIND IT TO BE AN APPROPRIATE SPEED SELECTION FOR SMALL OR PARTIAL LOADS. DO NOT START AND UNLOAD FULL LOADS IN “HI” RANGE.**

**NOTE:** Control lever settings must be made while the forage box front unloading unit is in operation. Moving the control levers with the unloading unit stopped will be difficult or impossible. This may cause equipment damages and may void the manufacturer’s warranty.

When finished unloading the forage box, perform the “Shut Down Procedures.”

## SHUTDOWN PROCEDURES

For proper operation, it is IMPORTANT that when unloading is completed to slowly return the VARIABLE SPEED control lever to the “Neutral” position and then the HI-LO RANGE control lever to the “Neutral” position. Then, disengage the INDEPENDENT OUTFEED CLUTCH control lever to the “Stop” position. This will prepare the forage box front unloading unit for proper “start-up” on the next load of forage.

**NOTE:** Control lever settings must be made while the forage box front unloading unit is in operation. Moving the control levers with the unloading unit stopped will be difficult or impossible. This may cause equipment damages and may void the manufacturer’s warranty.

Idle down the tractor engine rpms. Disengage the PTO drive shaft and turn the tractor “OFF.” When all movement has stopped, disconnect the PTO drive shaft from the forage box unloading tractor and return it to the PTO storage bracket. Secure the PTO drive shaft into the PTO storage bracket with the rubber tie down strap. Shut down the silo filling blower tractor and wait for all motion to stop. If the forage box is equipped with a cross conveyor extension, raise it up to the transport position and securely latch it before traveling on roadways.

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 or silo filling blower should become clogged, shut off all power to the forage box and blower. Wait for all motion to stop. Disconnect PTO drive shaft or hydraulic supply and return hoses. Then, clean out the machine.

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 the removal of forage from inside of the forage box, then remove the rear discharge door (bolted hinges on top of each side) and then empty the forage manually by hand through the rear opening.



**DANGER: NEVER ENTER THE FORAGE BOX OR FRONT UNLOADING UNIT FOR ANY REASON WITHOUT FIRST DISCONNECTING PTO DRIVE SHAFT OR HYDRAULIC HOSES FROM POWER SUPPLY. 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.

# REAR UNLOAD OPERATION HYDRAULIC DRIVE

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

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" and set the brakes.

**NOTE:** Normal operation is using a farm tractor. If using some other vehicle, exercise caution when parking and exiting this vehicle.

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. Move the Independent Outfeed Clutch control lever to the "Stop" position. If using a hydraulic drive, couple the hydraulic hoses to the power supply. Be sure the hydraulic hoses are securely locked to the tractor hydraulic couplers.

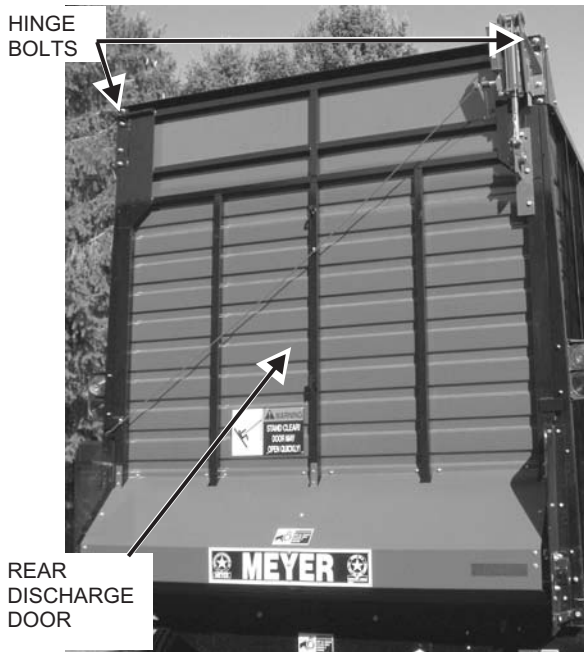
Make sure all persons are well clear of the forage box and the unloading area.

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. Pressure of forage against the rear door causes it to spring open very quickly.

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

Return to the tractor, restart, and **SLOWLY** engage the tractor PTO or hydraulics to start the apron chains and to open the rear door. Once the door opens, regulate the discharge flow with the tractor engine speed. Do not operate above rated tractor engine RPM speed.

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



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.**

When finished unloading, reduce engine speed to idle and disengage the tractor PTO or hydraulics. Pull the forage box straight ahead to pull the rear door away from the unloaded pile of forage. Gravity will allow the rear door to swing shut. The rear door latches will engage to secure it closed. Visibly observe that rear discharge door properly latches close.

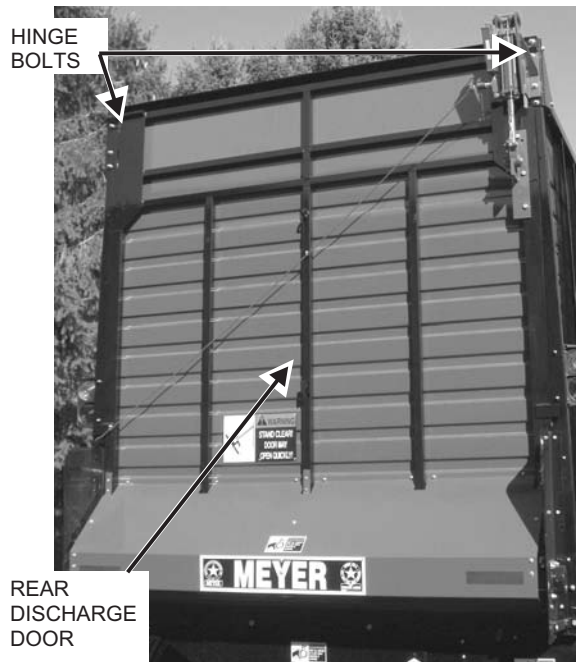
The unloading process described is to be performed by the operator alone. This will eliminate unexpected “start-ups” and minimize other hazards that could result by more than one person in control. If the forage box should become clogged, shut off all power to the forage box and wait for all motion to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

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 of the forage box, then remove the rear discharge door (bolted hinges on top of each side) and then empty the forage manually by hand through the rear opening.



**DANGER: NEVER ENTER THE FORAGE BOX OR FRONT UNLOADING UNIT FOR ANY REASON WITHOUT FIRST DISCONNECTING THE PTO DRIVE SHAFT OR HYDRAULIC HOSES FROM POWER SUPPLY. 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.



**REAR OPENING DISCHARGE DOOR**



**CAUTION: (QUICK RELEASE!)**

# LUBRICATION



**WARNING: DISCONNECT PTO DRIVE SHAFT (OR HYDRAULIC POWER SOURCE) 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 Grease front idler sprocket - wipe off excess grease from exterior.
- L3 Grease (2) moveable clutch sheaves - wipe excess from interior and exterior. Prevent oil and grease from getting on clutch sheave belt drive surface.
- L4 Apply grease to lower cluster shaft end and lower variable speed engagement arm.
- L5 Oil (2) roller chains and "HI-LO" range sliding jaw clutch.
- L6 Grease "HI-LO" range brass shifting collar.
- L7 Oil (3) roller chains on auger drive and (1) roller chain on cross conveyor drive. Open the auger chain cover to oil the chains.
- L8 Grease (2) gearbox hollow output shaft zerks (1 Front, 1 Rear (not shown) - zerk located behind coupling plate).

## BEGINNING OF CROP MAINTENANCE

(approximately 100-150 loads)

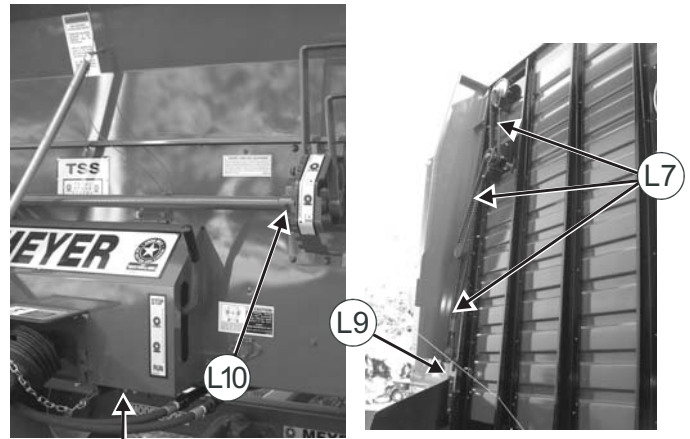
- L9 Grease (4) main apron shaft bearings (2 Front, 2 Rear) (Front center bearing grease from zerk in left end frame).
- L10 Grease (3) shifter control lever guide sleeves. Grease (1) Independent Outfeed Clutch handle pivot under front shield.
- L11 Grease (4) gear cluster shaft bearings.
- L12 Grease (2) rear gate hinges. Oil (2) rear gate latch pivot bolts.
- L13 Maintain oil in the front and rear main apron drive (2) gearboxes at the check plug level. Change oil in the gearboxes after the first season of use and yearly thereafter. Use #85W140 wt. Gear Lube Oil. Lighter oil may be used in temperatures below 20° F.
- L14 Maintain oil in the auger drive upper gearbox at the check plug level. Change oil in the gearbox after the first season of use and yearly thereafter. Use ONLY Synthetic ISO 460 Gear Oil AGMA 7 (Non EP) or equivalent.
- L15 Grease (4) Cross Conveyor Apron Shaft Bearings
- A1 Adjust main apron chain per "Adjustments" section. Adjust cross conveyor chain per "Adjustments" section.
- A2 Adjust shifter controls per "Adjustments" section.
- A3 Remove panel and clean out accumulation of foreign material build-up.

## END OF CROP CLEANUP AND MAINTENANCE

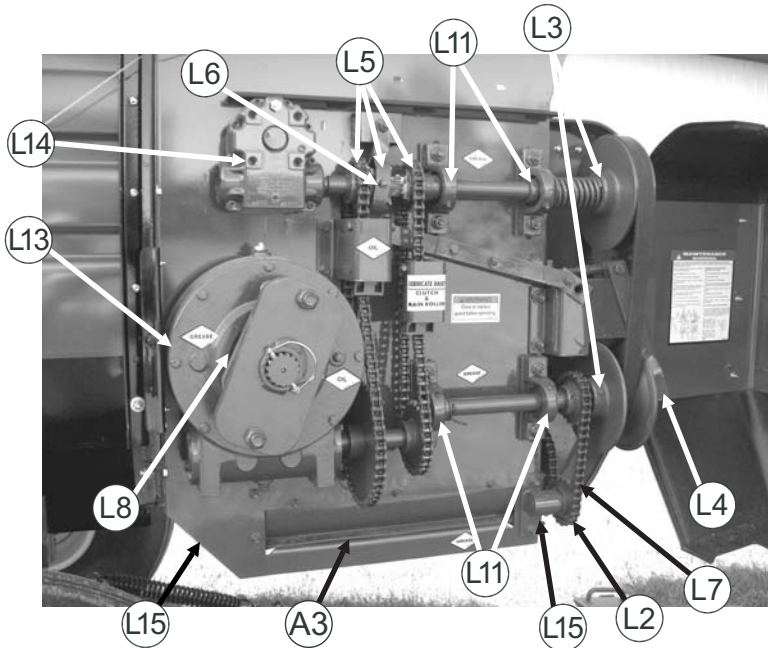
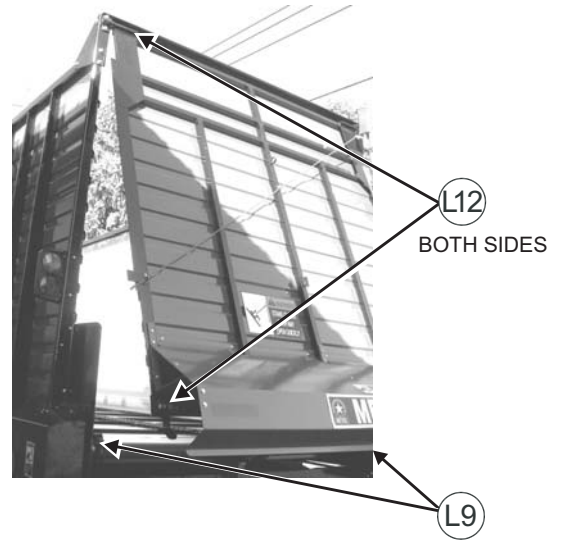
Allow box to completely clean out last load of forage. Clean out all forage material from inside the box, roof and on the outside of the box. Clean the front cross conveyor on the top pan and in the lower pan (chain return) area. Clean out the clean-out panel. Clean out the deflector shield at the rear of the box, both inside and outside.

It is recommended to lube the forage box before storage to exclude moisture from bearings. Apply oil to roller chain drives and to the main apron chains and cross conveyor chains. Also, new or used oil is recommended to be applied to the floor and inside of the box walls.

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.



L10  
Under Shield



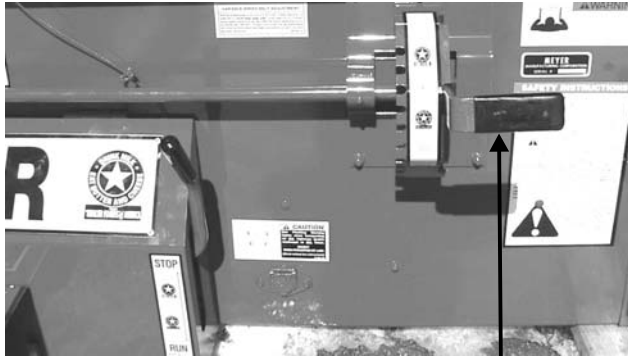
LUBRICATION DIAGRAMS (Shields Removed for Il-

# TWO-SPEED OPERATION

## CONTROL LEVER



**WARNING: THE RANGE CONTROL LEVER DOES NOT STOP THE CROSS APRON. ONLY THE TRACTOR PTO OR THE EMERGENCY STOP MECHANISM WILL STOP THE CROSS CONVEYOR. FAILURE TO HEED MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.**



RANGE CONTROL LEVER

The unloading of the forage box is controlled by the range control lever and the tractor PTO speed.

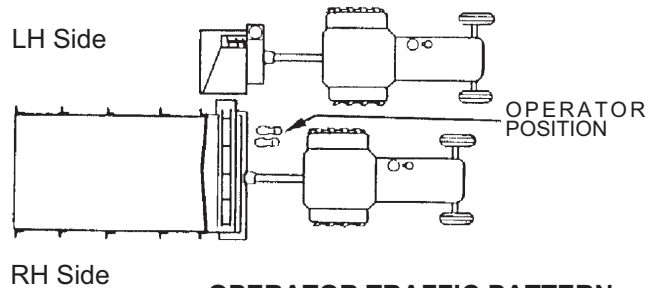
Center detent on the range control is “NEUTRAL”, up is “LOW” and down is “HIGH” range. Range selection affects the forward speed of the main apron chain only. In neutral, the apron does not advance.

## UNLOADING THE FORAGE BOX

Pull the forage box into position and park so that the cross conveyor discharge opening is in alignment with the silo filling blower hopper. If the forage box is equipped with a fold down conveyor extension, it can be lowered before pulling in front of the blower. After a couple of parking trials, you may become familiar with the correct parking place and be able to lower the cross conveyor extension after parking. 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” and set the brakes.

**NOTE:** Normal operation is using a tractor. If using some other vehicle exercise equivalent caution when parking and exiting this vehicle.

Properly dismount from the tractor and approach the forage box by walking along the left side of the tractor as shown in the following diagram. Do not approach the forage box from the right side of the machine (left hand unload). Approach the left front area of the forage box, as this is where the control levers are located. Standing in the operator position will not require crossing the PTO drive shaft at any time during the unloading operation.



OPERATOR TRAFFIC PATTERN



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



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

## START UP PROCEDURES:

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. If using an optional hydraulic drive, couple the hydraulic hoses to the power supply.

Check that the INDEPENDENT OUTFEED CLUTCH control lever is in the “Stop” position and the HI-LO RANGE control lever is in the “Neutral” position.

**NOTE:** The INDEPENDENT OUTFEED CLUTCH and HI-LO RANGE control levers must be in their “Stop” or “Neutral” positions when engaging and disengaging the PTO drive shaft (or optional hydraulic drive). All forage box control lever selections are to be made while the PTO (or hydraulic) power is in operation. If the control levers are engaged before power is applied, damage may occur to the Independent Outfeed Clutch drive. Failure to follow correct operating procedures may cause equipment damage and may void the manufacturer’s warranty.

At this time, start the silo filling blower. Return to the forage box unloading tractor, slowly engage the PTO, and set the engine speed from 1300-1500 rpm. to give a PTO speed of 300-375 rpm.

Return to the operator’s position adjacent to the forage box controls. Intermittently engage the INDEPENDENT OUTFEED CLUTCH control lever into the “Run” position and allow the cross conveyor to empty out any accumulation of forage in the front unloading unit. After the forage has emptied, fully engage the INDEPENDENT OUTFEED CLUTCH control lever into the “Run” position.

Next, move the RANGE control lever to “LO” and the main apron chain will begin to move forward.



**CAUTION: YOU CAN MOVE THE RANGE CONTROL LEVER TO “HI” FOR CLEAN-OUT AT THE END OF UNLOADING AND YOU MAY ALSO FIND IT TO BE AN APPROPRIATE SPEED SELECTION FOR SMALL OR PARTIAL LOADS. DO NOT START AND UNLOAD FULL LOADS IN “HI” RANGE.**

**NOTE:** Control lever settings must be made while the forage box front unloading unit is in operation. Moving the control levers with the unloading unit stopped will be difficult or impossible. This may cause equipment damages and may void the manufacturer’s warranty.

When finished unloading the forage box, perform the “Shut Down Procedures.” Refer to page 20.

# TWO SPEED LUBRICATION AND MAINTENANCE



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

## ROLLER CHAIN DRIVES

The roller chain drives are tensioned by automatic spring loaded tension blocks.

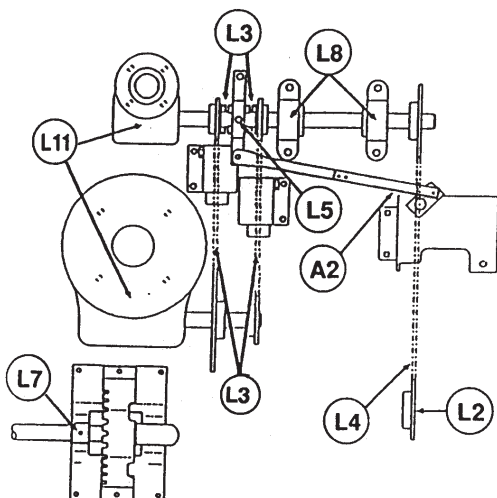
## RANGE CONTROL CLUTCH ENGAGEMENT

With the range control lever set to neutral, the engaging jaw clutch should be about midway between the “LO and “HI” sprocket clutch jaws on the splined shaft. Neither should be engaged. When the lever is moved to “LO” the engaging jaw clutch should mate with “LO” speed sprocket clutch and have about 1/16” of clearance. Likewise for the “HI” speed when the lever is moved to “HI”. This engagement is adjusted by changing the length of over-lap on the two, slotted hole linkage bars.

## DAILY LUBRICATION MAINTENANCE

(every 8-10 loads)

- (L1) Grease PTO drive shaft joints (not illustrated).
- (L2) Grease front idler sprocket - wipe off excess grease from exterior.
- (L3) Oil roller chains and HI-LO range jaw clutch.



(L4) Oil roller chains on auger drive and cross conveyor drive.

(L5) Oil or grease HI-LO range brass shifting collar.

## BEGINNING OF CROP MAINTENANCE

(approximately 100-150 loads)

(L6) Grease main shaft bearings. (Not Shown)

(L7) Grease range control sleeve.

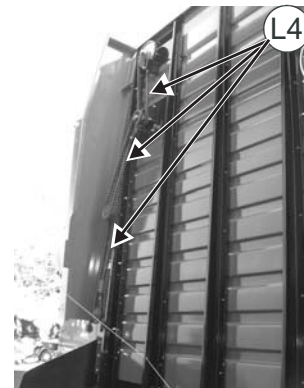
(L8) Grease gear cluster shaft bearings.

(L11) Maintain oil level in gear boxes. See L13 and L14.

(L15) Grease (4) Cross Conveyor Apron Shaft Bearings, See Page 23.

(A2) Adjust range control per “Clutch Engagement”.

## END OF CROP CLEANUP AND MAINTENANCE



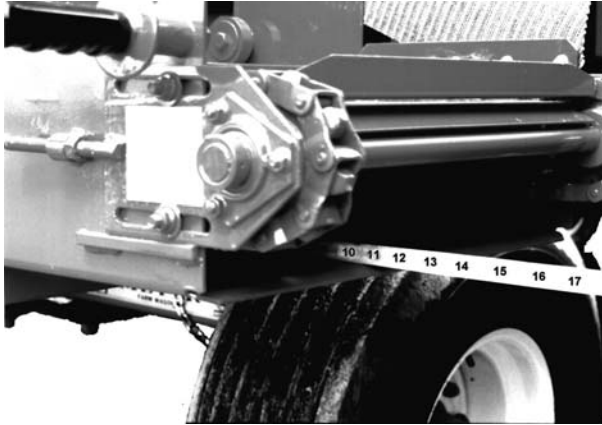
Clean out all forage material from inside the box, roof, and on the outside of the box. Clean the front cross apron on the top and in the lower pan (chain return) area. Clean out the deflector shield at the rear of the box, both inside and outside.

New or used oil is recommended to be applied to the floor and inside of the box walls. Also coat all apron chains and slats with oil.

# ADJUSTMENTS



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



## CROSS CONVEYOR CHAIN WITH CROSS APRON HOLD DOWNS

Correct adjustment of the cross apron chain occurs when 12" of chain, APRON SLAT does not touch the BOTTOM PAN of the cross apron return area at the discharge opening. To tighten the chain, loosen the two bolts securing the slotted bearing bracket at each side of the discharge opening. Tighten the chain by tightening the nut on the adjuster bolt. Adjust both sides equally. Retighten the bearing bracket bolts.

## MAIN APRON CHAINS

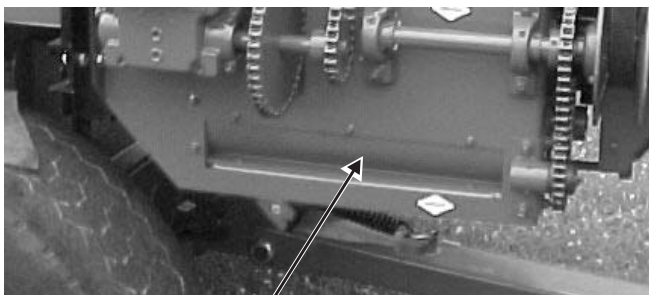
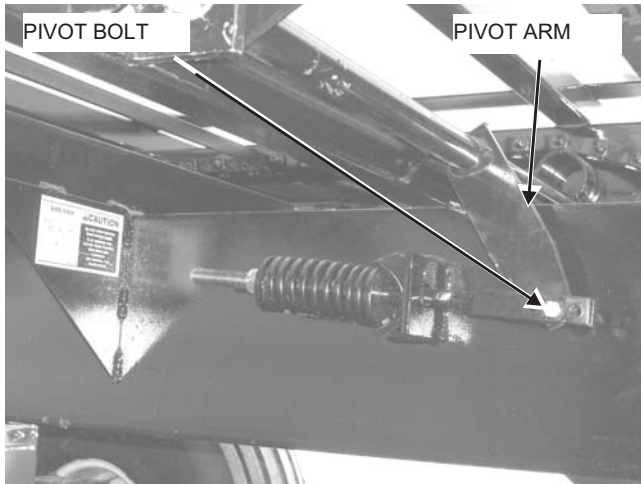
After unloading the first ten loads from the front and also after unloading the first ten loads from the rear check the main apron chain tension. After initial adjustment check chain tension daily for the next five days of operation. Initial wear in of chain will require adjustment to maintain proper chain tension. **FAILURE TO MAINTAIN PROPER CHAIN TENSION MAY VOID WARRANTY.** Removable master links are included in each of the four strands for tightening after tightener travel is at its maximum. Remove a link from each of the four strands at the same time to assure proper timing.

The main aprons are each independently and manually tensioned by a spring loaded tensioner and pivoting arm tightener system. To tighten the main aprons, tighten the tensioner rod on the spring loaded tensioners centrally located at each side of the forage box on the steel 10" stringers. (See page 29) Tighten to 5" compressed length.

In addition to the spring loaded tensioner, there is located on the inner chain strands of each apron assembly a fine adjustment bolt on the pivoting arm tightener. Adjust as needed to equalize stretch in chain strand pairs of each independent apron assembly (See page 29.)

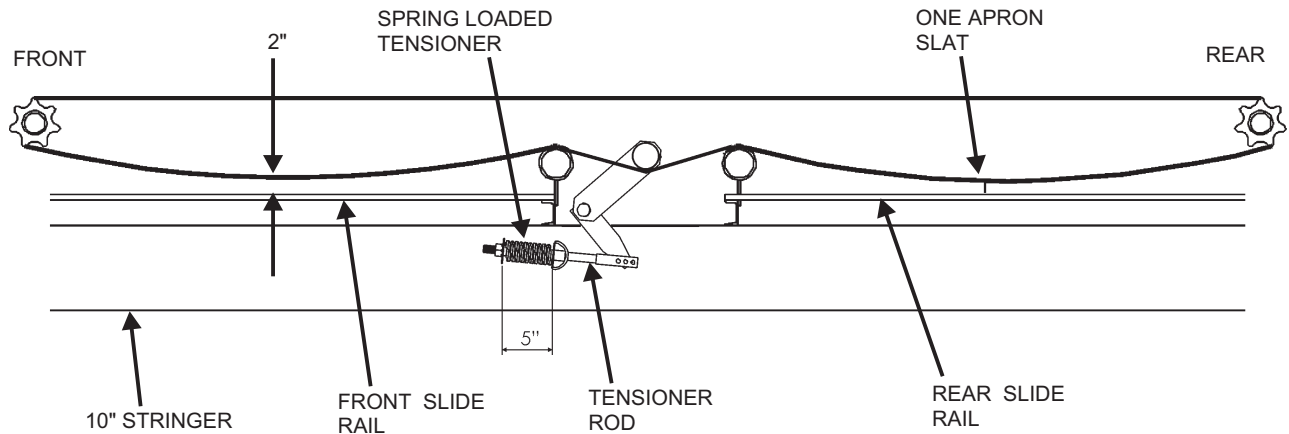
## CLEAN-OUT PANEL

Remove clean-out panel on a regular basis to clean out accumulation of foreign material build-up. Keep this area clean for proper cross conveyor chain operation.



CLEAN OUT PANEL

## ADJUSTMENT DIAGRAMS (Shields Removed for Illustration Purposes Only)



(Left Hand Side - Side View) - typical both sides

**ADJUSTMENT of 6200 SERIES MAIN APRON CHAINS**

**A. For Regular Tightening:**

**IMPORTANT AT ALL TIMES OF OPERATION!**  
Correct apron tension occurs when the return main apron slats ride 2" at mid span off of the front pair of slide rails and only one apron slat touches at mid span on the rear pair of slide rails.

**For Additional Regular Tightening Adjustment:**  
 There are 3 anchor holes on the clevis end of the tensioner rod. Relieve tension and anchor the clevis to a different hole when there is no more adjustment.

**NOTE:** After repeated regular tightening of the main apron chain assemblies and when the return main apron slats begin to "bottom-out" onto the top of the channel iron of the steel frame stringers, remove equal number of links from each apron chain assembly. Re-adjust the spring loaded tensioner for correct main apron tension.

**B. For Fine Tightening & to Equalize Stretch in Individual Chain Strand Pairs.**

1. Allows to Fine Adjust/Tighten Individual Chain Strand Pairs of each Main Apron.
2. Allows to Equalize Stretch in Individual Chain Strand Pairs of each Main Apron.

Loosen the spring loaded tensioner on the main apron chain prior to making the adjustments on the individual chain strands. This will allow easier adjustment of the adjuster bolt. Located on the inner chain strand of each main apron assembly, there is an adjustable, tightening pivot arm with a 1/2" x 1-1/4" adjuster bolt. Turn this 1/2" x 1-1/4" bolt by first loosening two set screws located on the adjustable pivot arm. Tighten or loosen the 1/2" adjuster bolt to make fine adjustment/tightening in the individual chain strands or to equalize stretch in the individual chain strand pairs of each independent main apron assembly. Retighten the two set screws and readjust the spring loaded tensioner for correct apron tension.

**IMPORTANT!**  
**WARRANTY MAY BE VOIDED**

New Meyer Forage Box "Manufacturer's Warranty" shall not apply to any Meyer Forage Box, main apron chain, which has been subjected to misuse, negligence, alteration, accident or incorrect operation (adjustment) procedures.

Please! Follow Correct Main Apron Tightening and Adjustment Procedures!

## ROLLER CHAIN DRIVES

All roller chain drives are tensioned by automatic spring loaded tension blocks.

## RANGE CONTROL CLUTCH ADJUSTMENT

With the Range control lever set to "NEUTRAL," the sliding splined jaw clutch should be at midspan between the "LO" and "HI" sprocket clutch jaws on the splined gear cluster shaft. Neither "LO" nor "HI" should be engaged. When the lever is moved to "LO", the engaging jaw clutch should mate with the "LO" range sprocket clutch and have about 1/16" of clearance. Likewise for the "HI" range when the lever is moved to "HI." This engagement is adjusted by changing the length of over-lap on the two, slotted hole linkage bars. See Lubrication Diagram, page 27 for location - A2.

**NOTE:** Pending sprocket tooth wear, the two clutch sprockets and the sliding splined jaw clutch can be switched from left to right and right to left on the splined gear cluster shaft to access new wear on opposite sides of jaw shoulders.

## VARIABLE SPEED BELT REPLACEMENT

1. Shift the Variable Speed control lever to "NEUTRAL" (up).
2. Shift the Range control lever to "NEUTRAL" (center).
3. Move the Independent Outfeed Clutch control lever to "STOP" (up).
4. Lower the Fold Down Cross Conveyor Extension. If machine is equipped.
5. Open cluster shield plastic door.
6. Roll the old belt counter-clockwise off of the top sheaves starting at the 2:00 position.
7. Install the new belt around the lower sheaves and then roll clock-wise onto the top sheaves starting at the 10:00 position.
8. Close and securely fasten the cluster shield plastic door.
9. Raise and latch the Fold Down Cross Conveyor Extension. If machine is equipped.

## VARIABLE SPEED CONTROL ADJUSTMENT

When the Variable Speed control lever is in "NEUTRAL," neither the main aprons nor the unloading augers are to operate when under load - (when wagon is full of forage). Variable speed operation should begin when the lever is moved down one or two notches from "NEUTRAL." To adjust the drive belt, follow these steps:

1. With the Variable Speed control lever in "NEUTRAL," remove the drive belt as described under Variable Speed Belt Replacement.
2. Move the Variable Speed control lever down to the 2nd from last notch on the control quadrant.
3. Check lower sheaves engagement:
  - A. If bases of sheaves do not set tight together: See step #4 (A)
  - B. If bases of sheaves bottom-out TOO tight together: See step #4 (B)
4. Loosen jam nut and remove bolt from the control rod special bolt and swivel eyelet assembly:
  - A. Lengthen or unthread the eyelet to set base of sheaves tight together.
  - B. Shorten or thread the eyelet to set base of sheaves tight together.
5. Reinstall bolt into control rod special bolt and swivel eyelet assembly, and tighten jam nut.
6. Check adjustment made by creating moderate tension on the Variable Speed control lever when moving lever between 2nd to last notch and last notch on the control quadrant.
7. Place Variable Speed control lever into "NEUTRAL," and reinstall the drive belt as described under Variable Speed Belt Replacement.

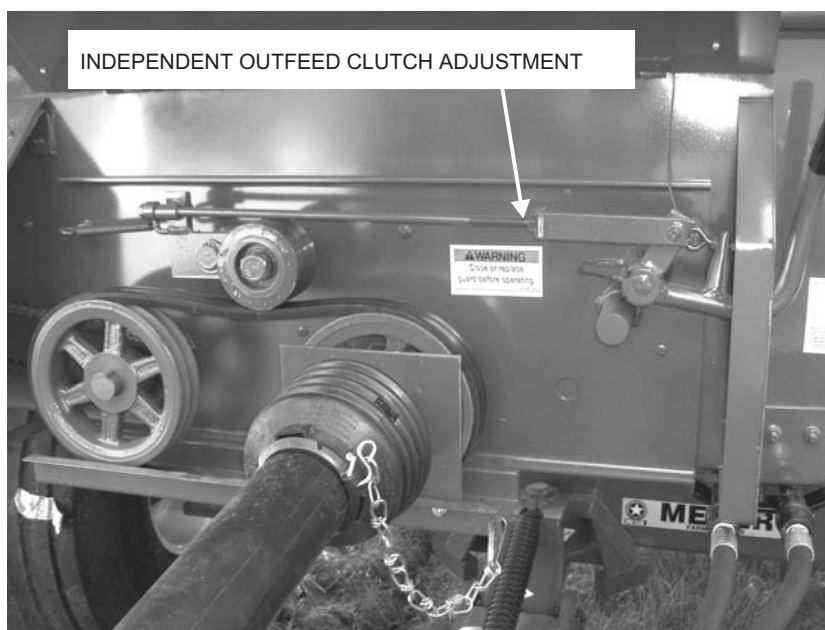
**NOTE:** The Variable Speed belt should be **RE-PLACED** when sheaves are correctly adjusted and the Variable Speed control lever does not engage the unloading augers until the 5th or 6th notch down on the control quadrant.

## INDEPENDENT OUTFEED CLUTCH BELT REPLACEMENT

1. Move the Independent Outfeed Clutch control lever to “STOP” (up).
2. Extend the PTO drive shaft out straight and lower the tractor end down to ground level.
3. Unlatch and raise the hinged top, front chain shield assembly.
4. Remove the clutch bottom bracket - “belt pan.”
5. Roll off the old Double V-Belt from the two pulleys.
6. Slide off the old belt down the length and over the end of the PTO drive shaft.
7. Install new Double V-Belt onto the two pulleys and check for proper engage, “RUN” tension. Adjust as needed.
8. Refasten the clutch bottom bracket - “belt pan and the PTO input shaft cover.’
9. Lower and latch close the hinged top, front chain shield assembly.
10. Raise PTO drive shaft from ground level and return it to the PTO storage bracket.

## INDEPENDENT OUTFEED CLUTCH ADJUSTMENT

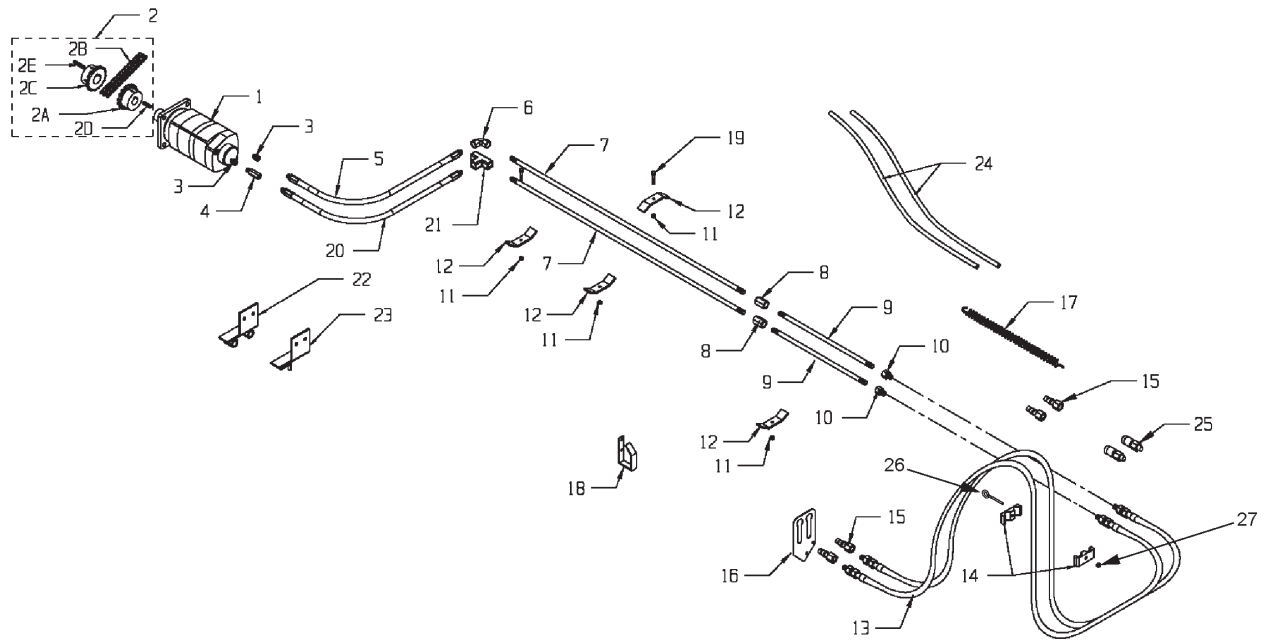
Lengthen or shorten linkage bolt with jam nut to create moderate tension on the Double V-Belt when engaging the Independent Outfeed Clutch control lever into the “Run” position.



**INDEPENDENT OUTFEED CLUTCH (Shield Removed for Illustration Purposes Only)**

# REPAIR PARTS

## HYDRAULIC REAR UNLOAD COMPONENTS

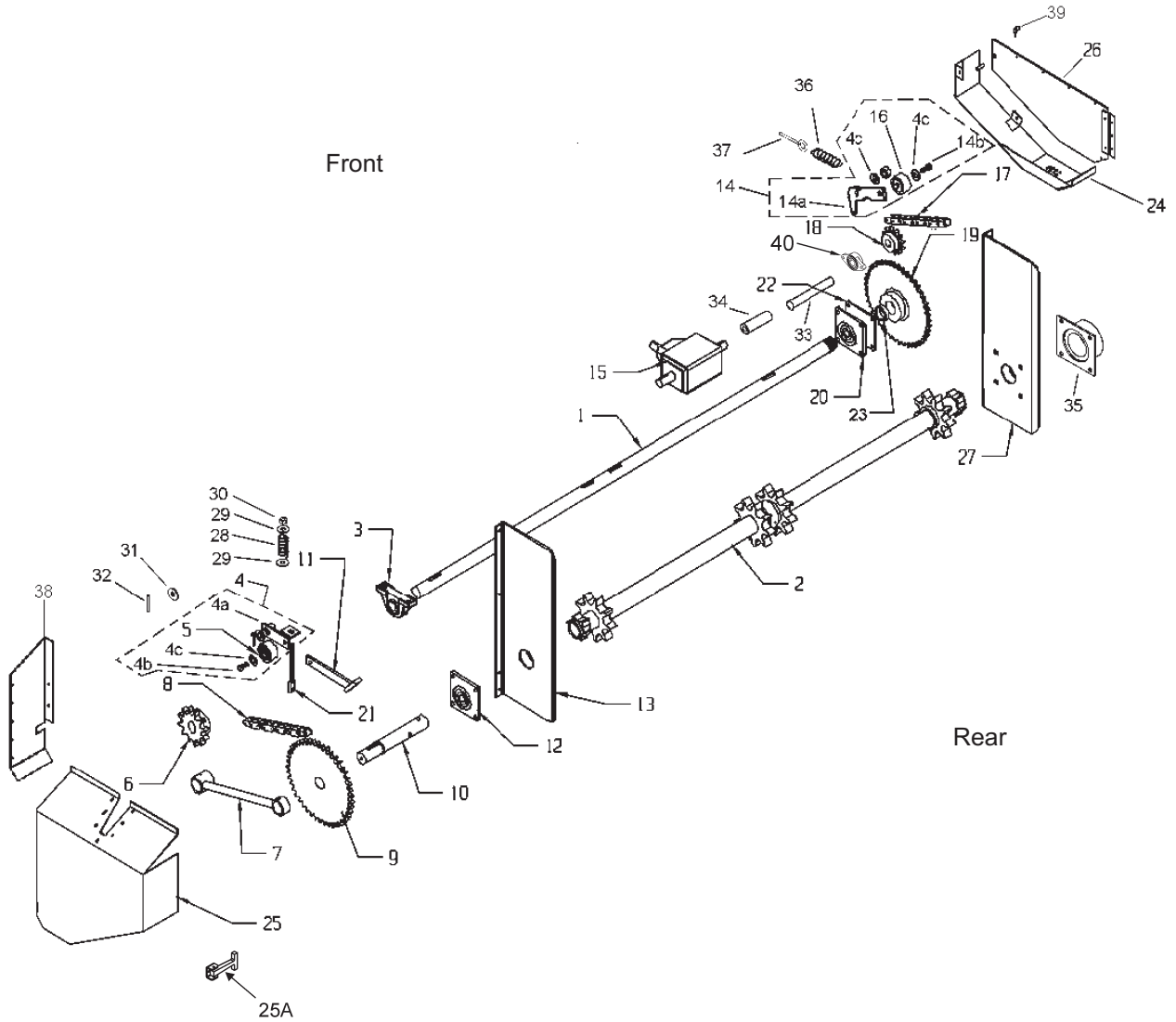


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## HYDRAULIC REAR UNLOAD COMPONENTS

| Key | Part No.      | Qty | Description  |
|-----|---------------|-----|--|
| 1   | 55-0088       | 1   | Hydraulic Motor  |
| 2   | 37-0019       | 1   | Chain Coupler, 1" To 1 1/4" Assy. W/Hdw                          |
| 2A  | 37-0013-1     | 1   | Motor Coupler 1" Bore  |
| 2B  | 37-0013-2     | 1   | #50 Coupler Chain  |
| 2C  | 37-0017-1     | 1   | Gearbox Coupler 1-1/4" Bore                                      |
| 2D  | 35-0019-H     | 1   | 1/4x1/4x1-1/4" Hardened Key W/Rounded Ends                       |
| 2E  | 35-0021       | 1   | 1/4x1/4x1-3/4" Key   |
| 3   | 55-0048       | 2   | Ftg, Hyd, O-Ring Base  |
| 4   | 55-0007-B-RF  | 1   | Check Valve, 3/4"  |
| 5   | 55-0047       | 1   | Hose, 3/4" x 42"   |
| 6   | 55-0027       | 1   | Ftg, Hyd, 3/4 x 90°  |
| 7   | 55-0062       | 2   | Hyd. Pipe, 3/4 x 161"-6218 Box                                   |
|     | 55-0024       | 2   | Hyd. Pipe, 3/4 x 185"-6220 Box                                   |
|     | 55-0022       | 2   | Hyd. Pipe, 3/4 x 209"-6222 Box                                   |
|     | 55-0020       | 2   | Hyd. Pipe, 3/4 x 233"-6224 Box                                   |
| 8   | 55-0030       | 2   | Pipe Coupler, 3/4"   |
| 9   | 55-0037       | 2   | Hyd. Pipe, 3/4 x Sch. 40 x 30" (10" Stringer Box Only)           |
| 10  | 55-0039       | 2   | Adapter, 3/4 To 1/2 (10" Stringer Box Only)                      |
| 11  | 815-3816-Z    | 4   | 3/8-16 Nylon Insert Lock Nut                                     |
| 12  | 25-0210-4     | AR  | Hyd. Pipe Holder Clamp   |
| 13  | 55-0034       | 2   | 1/2" X 132" Hose Assembly - Pull Type Only                       |
| 14  | 55-0033       | 1   | Clamp Assembly-Pull type only                                    |
| 15  | 55-0013       | 2   | Pioneer Coupler-Pull type only                                   |
| 16  | 25-0249-1     | 1   | Holder for Hyd. Hose Ends-Pull type only                         |
| 17  | 29-0012       | 1   | Spring-Pull type only  |
| 18  | 25-0209       | 1   | Hyd Hose Holder Bracket-Pull type only                           |
| 19  | 851-3816-1.5Z | 2   | 3/8-16x1-1/2" GR 5 MB  |
| 20  | 55-0029       | 1   | Hose, 3/4" x 36"   |
| 21  | 55-0079       | 1   | 3/4" BM Tee  |
| 22  | 25-0210-8     | AR  | Hydraulic Line Holder Trailer Mount Box                          |
| 23  | 25-0210-2     | AR  | Hydraulic Line Holder 10" Stringer Box                           |
| 24  | 55-0064       | AR  | Hydraulic Hoses, 1/2 x 42" (Boxes with 6" Stringer Channel Only) |
| 25  | 55-0035       | AR  | Female Hydraulic Coupler (Front Hyd. Motor Pkg.)                 |
| 26  | 811-3118-2Z   | 1   | 5/16" X 2" Eyebolt   |
| 27  | 810-3118-Z    | 1   | 5/16" Spin Lock Nut  |

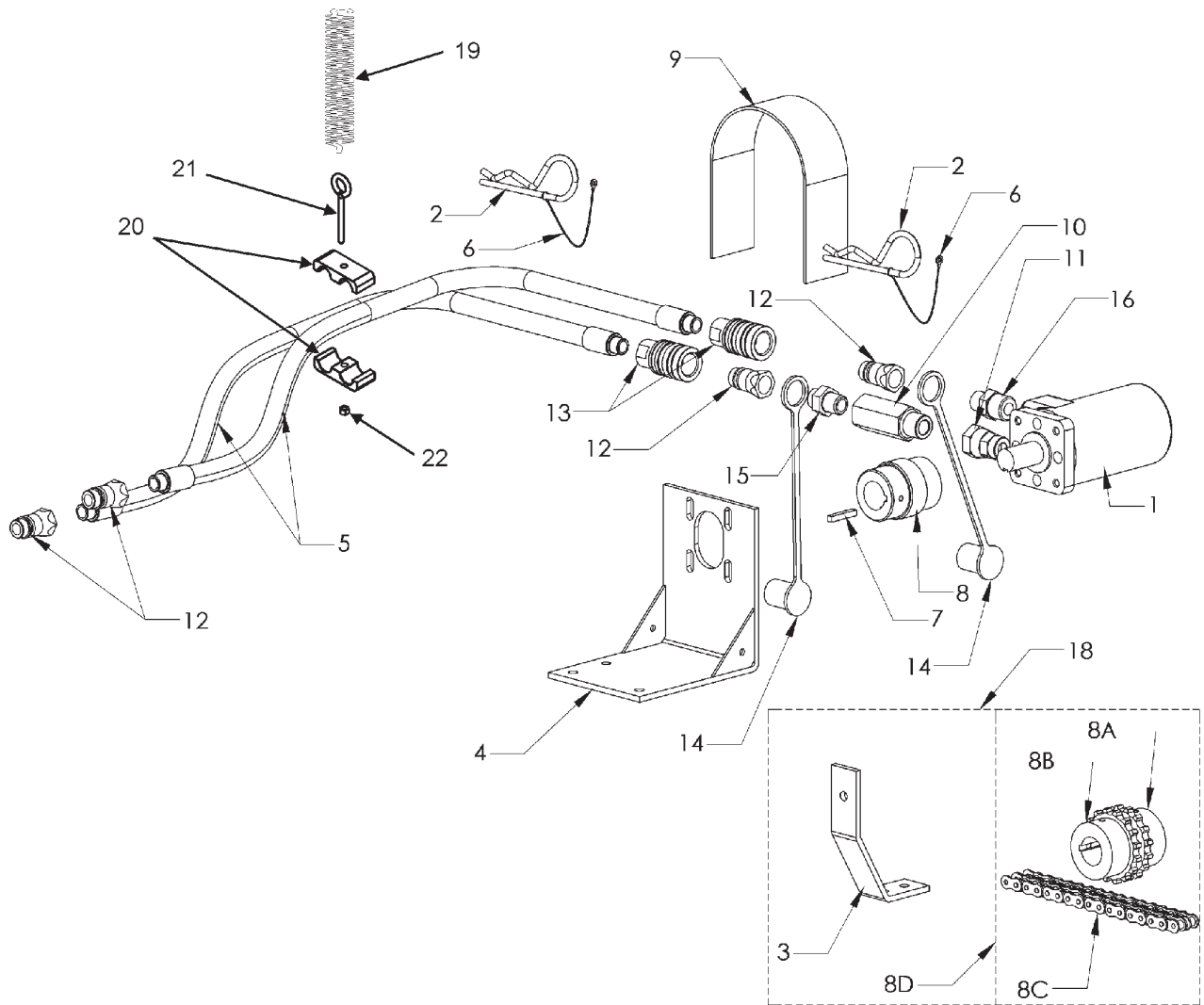
# REAR UNLOAD DRIVE TRAIN



## REAR UNLOAD DRIVE TRAIN

| Key | Part No.       | Qty | Description                                |
|-----|----------------|-----|--|
| 1   | 23-0150-1      | 1   | Rear Jack Shaft                            |
| 2   | 23-0152        | 1   | Rear Main Roller Assy.                     |
| 3   | 14-0044        | 1   | 2" Pillow Block Bearing                    |
| 4   | 25-6002        | 1   | #120 Chain Tightener Complete W/roller     |
| 4a  | 25-6002-1      | 1   | #120 Chain Tightener Weldment              |
| 4b  | 851-7510-1.75Z | 1   | 3/4-10x1-3/4" M.B. Zinc                    |
| 4c  | 805-0075-Z     | 2   | 3/4" Flat Washer Zinc                      |
| 5   | 912-0016       | 1   | 7/8" Nylon Roller Tightener Roller Assy.   |
|     | 912-0016-1     | 1   | 7/8" Nylon Roller Only                     |
|     | 912-0016-2     | 1   | Nylon Roller Inner Sleeve                  |
| 6   | 10-0085        | 1   | 120B9 Sprocket 2" Bore                     |
| 7   | 25-6019        | 1   | Support Arm Welded Assy.                   |
|     | 13-0022        | 1   | Bronze Bushing 1-1/2" Long                 |
|     | 13-0023        | 1   | Bronze Bushing 2-3/4" Long                 |
| 8   | 11-0138        | 1   | #120-41 Link Roller Chain                  |
| 9   | 910-0029       | 1   | 120B20 Sprocket, 2" Bore                   |
| 10  | 23-0153        | 1   | Stub Shaft                                 |
| 11  | 25-6021        | 1   | Left Rear Upright Support                  |
| 12  | 914-3808       | 1   | Bearing, 4 Bolt                            |
| 13  | 25-6004        | 1   | L.H. Rear Main Roller Bearing. Brkt.       |
| 14  | 25-6018        | 1   | #80 Chain Tightener Complete W/roller      |
| 14a | 25-6018-1      | 1   | #80 R. Rear Tightener Weldment             |
| 14b | 851-7510-2Z    | 1   | 3/4-10x2" M.B. Zinc                        |
| 15  | 19-0038        | 1   | Right Angle 2:1 Gearbox                    |
| 16  | 912-0012       | 1   | 1-3/8" Nylon Roller Tightener Roller Assy. |
|     | 912-0012-1     | 1   | 1-3/8" Nylon Roller Only                   |
|     | 912-0012-2     | 1   | Nylon Roller Inner Sleeve                  |
| 17  | 11-0078        | 1   | #80-56 Link Roller Chain                   |
| 18  | 10-0080        | 1   | 80B12 Sprocket 1 3/8" Bore                 |
| 19  | 10-0088        | 1   | 80B45 Sprocket Assy. W/Bushing             |
|     | 13-0021        | 1   | 2" ID Bronze Bushing                       |
| 20  | 14-0031        | 1   | Bearing, 4 Bolt                            |
| 21  | 25-6003-1      | 1   | #120 Chain Tightener Rod Assy.             |
| 22  | 100-7000-29    | 1   | 3/8" Bearing Spacer                        |
| 23  | 43-0026        | 1   | Rear Drive Sprocket Spacer 11/16 Long      |
| 24  | 24-6001        | 1   | Main Shield, Rear Drive                    |
| 25  | 24-6003        | 1   | Cover Door, Rear Drive                     |
| 25A | 32-0027        | 1   | Rubber T-Latch Assy Complete               |
| 26  | 24-6002        | 1   | Shield Door Assy., Rear Drive              |
| 27  | 25-6017-1      | 1   | Rear Main Roller Bearing. Brkt. RH         |
| 28  | 200-0004-5     | 1   | Compression Tightener Spring               |
| 29  | 805-0050-Z     | 2   | 1/2" Flat Washer Zinc                      |
| 30  | 815-5013-Z     | 1   | 1/2" Nylon Insert Locknut                  |
| 31  | 808-1-1.5-14   | 1   | 1" IDx1-1/2" ODx14 Ga. Machine Bushing     |
| 32  | 38-0010        | 1   | 1/4x2" Roll Pin                            |
| 33  | 23-0154        | 1   | Gearbox Output Extension Shaft             |
| 34  | 937-0002       | 1   | 1-3/8" Shaft Coupler                       |
| 35  | 14-0034-HD     | 1   | Right Rear Main Roller Bearing             |
| 36  | 929-3601       | 1   | Tightener Spring                           |
| 37  | 933-3804       | 1   | 5/16-18x4" Eyebolt                         |
| 38  | 24-6003-2      | 1   | Shield Hinge Plate                         |
| 39  | 32-0023        | 1   | Clevis Pin                                 |
| 40  | 14-0049        | 1   | 1-3/8" 2-Bolt Brg                          |

# OPTIONAL HYDRAULIC DRIVE

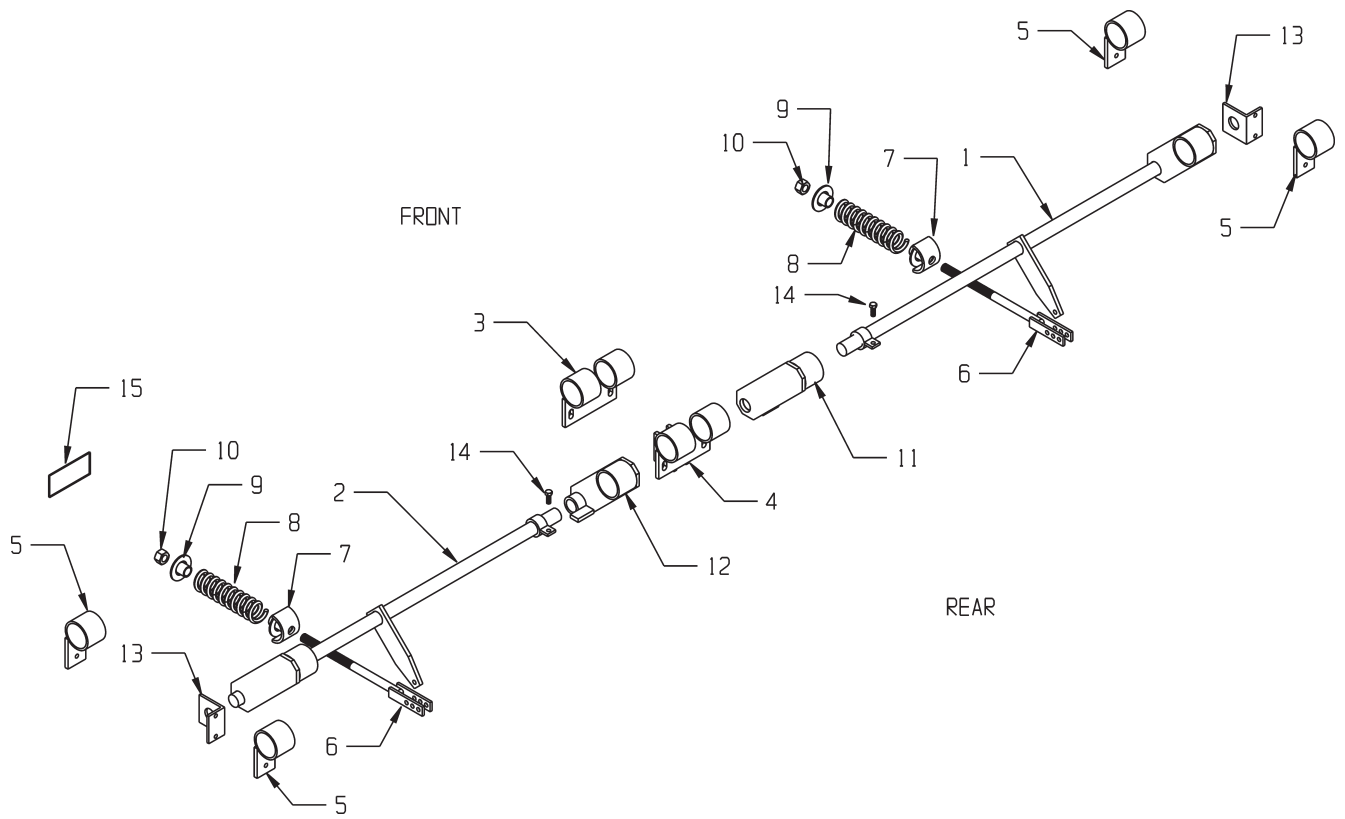


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## OPTIONAL HYDRAULIC DRIVE

| KEY | PART NO.     | QTY | DESCRIPTION  |
|-----|--------------|-----|--|
| 1   | 55-0099      | 1   | Hydraulic Motor T-Series   |
| 2   | 823-.25-5Z   | 2   | Hitch Pin Clip, 1/4 x 5"   |
| 3   | 25-0280-1    | 1   | Hydraulic Clutch Bottom Bracket Brace                            |
| 4   | 25-0283      | 1   | Stationary Hydraulic Motor Bracket Assy.                         |
| 5   | 55-0034      | 2   | 1/2" X 132" Hose Assembly (Pull Type Only)                       |
| 6   | 32-0022      | 2   | Lanyard  |
| 7   | 35-0012      | 1   | 1/4 x 1-1/2" Square Key  |
| 8   | 37-0012      | 1   | Stationary Hydraulic Motor Coupler-Welded (Prior to 07 Serial #) |
| 8A  | 37-0013-1    | 1   | Shaft Coupler Sprocket-1" Bore (Serial # 07 & Later)             |
| 8B  | 37-0017-1    | 1   | Shaft Coupler Sprocket 1-1/4" Bore (Serial # 07 & Later)         |
| 8C  | 37-0013-2    | 1   | #50 Double Coupler Chain   |
| 8D  | 37-0019      | AR  | Chain Coupler Assembly Complete (Serial # 07 & Later)            |
| 9   | 49-0027-1    | 1   | Stationary Hydraulic Motor Belting                               |
| 10  | 55-0007-B    | 1   | 3/4" Check Valve   |
| 11  | 55-0048      | 1   | 7/8" Straight to 3/4" NPSM Swivel Coupler                        |
| 12  | 55-0013      | 4   | Male Hydraulic Coupler (Pull Type Only)                          |
| 13  | 55-0035      | 2   | Female Hydraulic Coupler (Pull Type Only)                        |
| 14  | 55-0036      | 2   | Hydraulic Coupler Dust Cap (Pull Type Only)                      |
| 15  | 55-0156      | 1   | 3/4" to 1/2" Chamfered Hydraulic Adapter                         |
| 16  | 55-0159      | 1   | 5/8" to 1/2" Straight to Pipe Male Adapter                       |
| 17  | 801          | 1   | 1/4" Woodruff Key  |
| 18  | TSS-STAT-CCU | 1   | Chain Coupler Update Kit   |
| 19  | 29-0012      | 1   | Hydraulic Hose Support Spring                                    |
| 20  | 55-0033      | 1   | 1/2" Hose Support Clamp  |
| 21  | 811-3118-2Z  | 1   | 5/16" Eye Bolt   |
| 22  | 810-3118-Z   | 1   | 5/16" SpinLock Nut   |

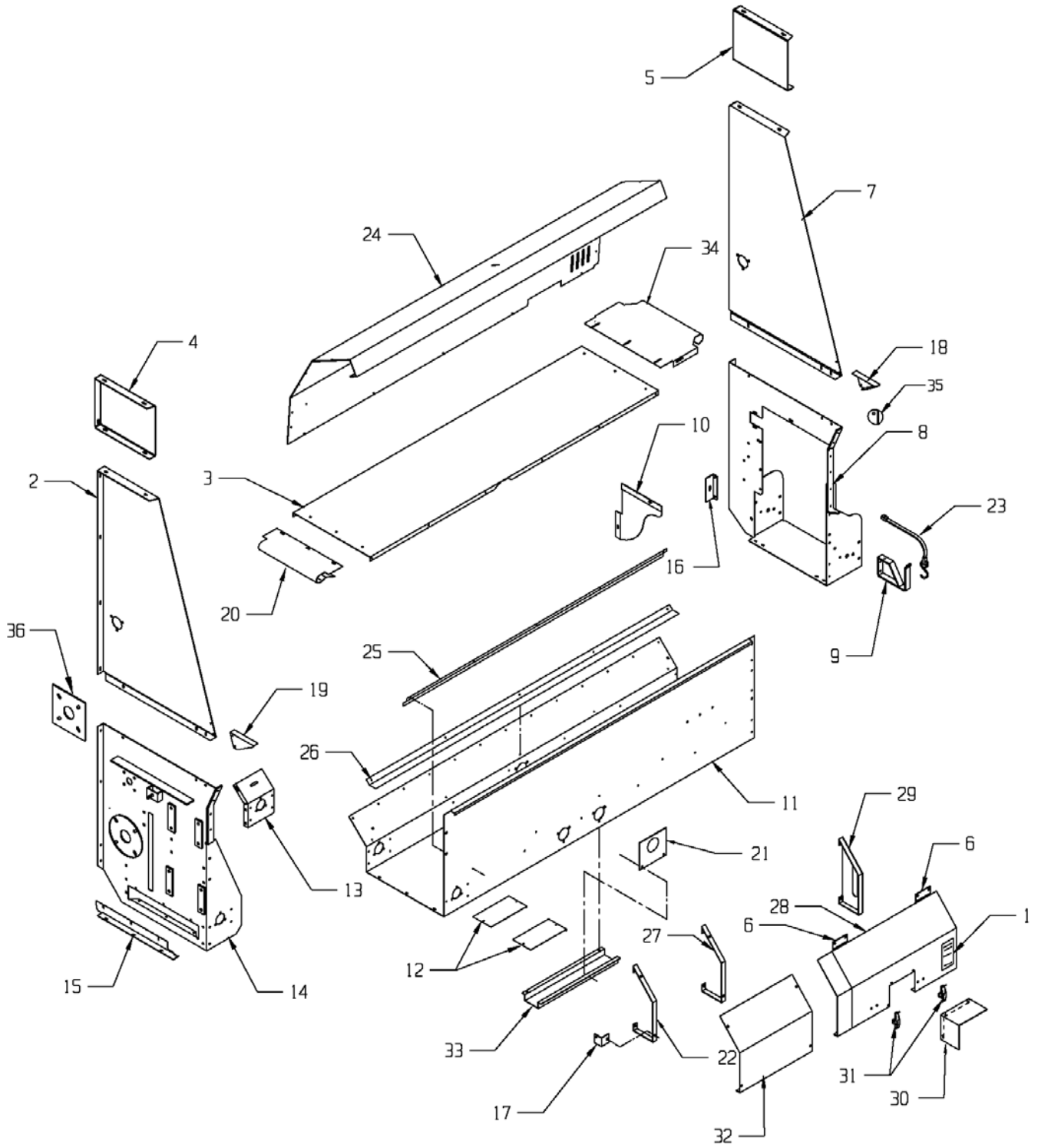
# FRONT & REAR UNLOAD FORAGE BOX MAIN APRON CHAIN TIGHTENER



## Front & Rear Unload Forage Box Main Apron Chain Tightener

| Key | Part No.       | Qty | Description                                     |
|-----|----------------|-----|---|
| 1   | 25-6010        | 1   | Tightener Assy., R Main Apron 42" Stringers     |
|     | 25-6010-TRUCK  | 1   | Tightener Assy., R Main Apron 33-1/2" Stringers |
| 2   | 25-6009        | 1   | Tightener Assy., L Main Apron 42" Stringers     |
|     | 25-6009-TRUCK  | 1   | Tightener Assy., L Main Apron 33-1/2" Stringers |
| 3   | 25-6012        | 1   | Center Lift Pipe Assy., Main Apron              |
| 4   | 25-6013        | 1   | Center Lift Pipe Assy., Main Apron              |
| 5   | 25-6008        | 1   | Outside Lift Pipe, Main Apron Chain             |
| 6   | 25-6007        | 2   | Tightener Rod Assy., Main Apron                 |
| 7   | 25-6011        | 2   | Rocking sleeve Assy., Tightener Bolt            |
| 8   | 929-0002       | 2   | Main Apron Tightener Spring                     |
| 9   | 925-3841       | 2   | Outer Spring Guide, Tightener Assy.             |
| 10  | 815-7510-Z     | 2   | Nut   |
| 11  | 25-6024        | 1   | Adjustable Tightener Arm RH                     |
| 12  | 25-6023        | 1   | Adjustable Tightener Arm, LH                    |
| 13  | 25-0215        | 2   | Tightener Mount Angle                           |
| 14  | 851-5013-1.25Z | 2   | 1/2-13 x 1 1/4" Gr5 Bolt (Fine Adjustment Bolt) |
| 15  | 46-0001-86     | 2   | Decal, Instruction                              |

# TSS UNIT FRAME W/ IOC

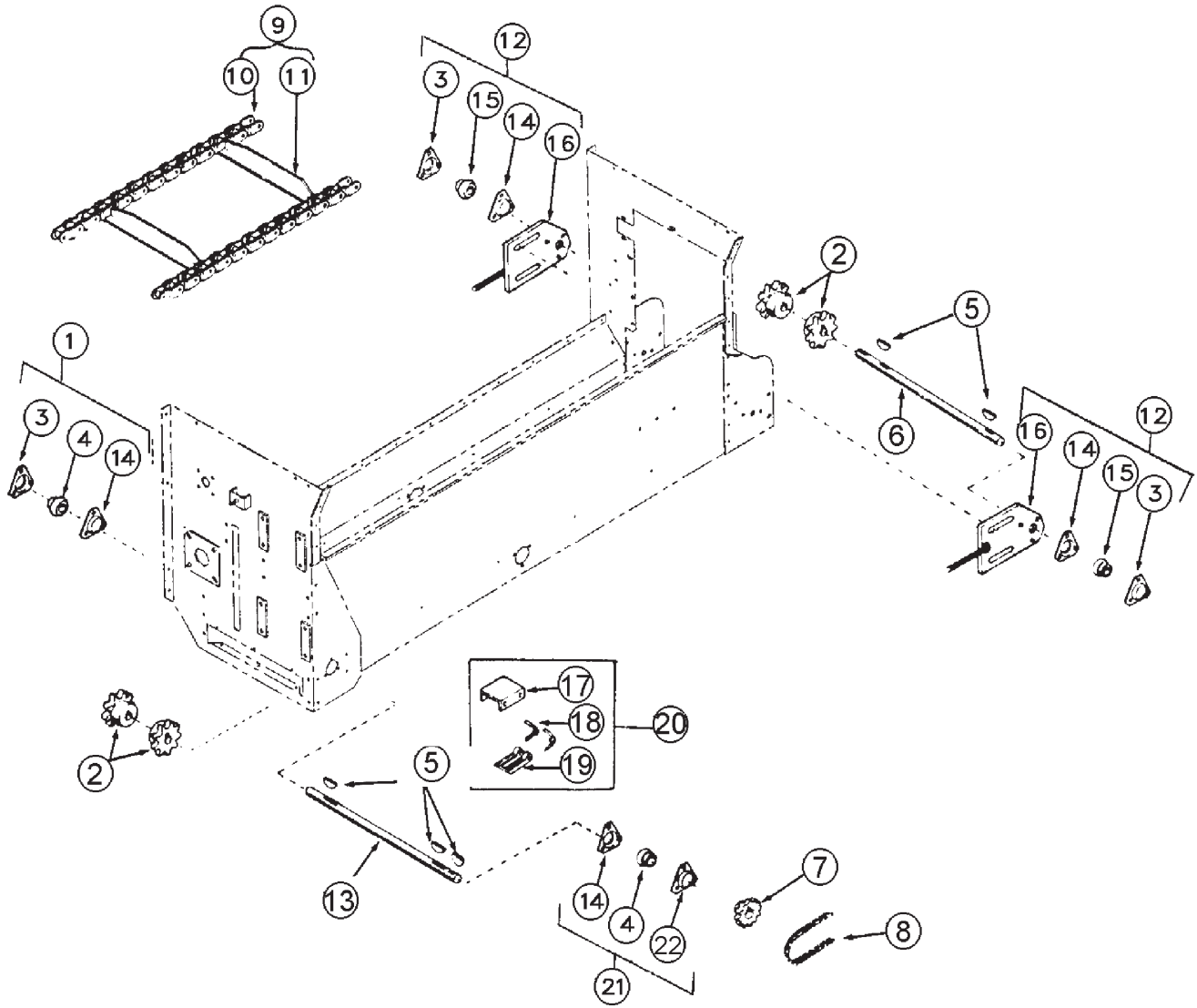


## TSS Unit Frame W/ IOC

| KEY | PART NO.        | QTY | DESCRIPTION  |
|-----|-----------------|-----|--|
| 1   | 46-0001-66      | 1   | Stop - Run Decal                                       |
| 2   | 25-0148-2       | 1   | RH Top Auger Extension                                 |
| 3   | 27-0027         | 1   | Top Apron Pan  |
| 4   | 25-0148-2-12    | 1   | Auger Plate Ext., RH                                   |
| 5   | 25-0148-1-12    | 1   | Auger Plate Ext., LH                                   |
| 6   | 24-0123-2       | 2   | Hinge Only, 4" Long- Heavy Duty                        |
| 7   | 25-0148-1       | 1   | LH Top Auger Extension                                 |
| 8   | 39-0017         | 1   | Discharge Frame  |
| 9   | 25-0006         | 1   | PTO Hanger Bracket                                     |
| 10  | 24-0099         | 1   | Auger Guard  |
| 11  | 27-0031         | 1   | Apron Pan  |
|     | 27-0031-RH      | 1   | R.H. Apron Pan   |
| 12  | 24-0103         | 2   | Access Cover   |
| 13  | 39-0024         | 1   | Pan Support Bracket                                    |
|     | 39-0024-RH      | 1   | R.H. Pan Support Bracket                               |
| 14  | 39-0021         | 1   | RH Side Plate Weldment                                 |
| 15  | 27-0026         | 1   | TSS Clean-Out Panel                                    |
| 16  | 39-0015-1       | 1   | Left End Frame Tab                                     |
| 17  | 24-0010-2       | 1   | Front Shield Angle Clip                                |
| 18  | 34-0007         | 1   | LH Spillage Guard Gusset                               |
| 19  | 34-0008         | 1   | RH Spillage Guard Gusset                               |
| 20  | 24-0079         | 1   | Right Conveyor Shaft Shield                            |
| 21  | 24-0125-1       | 1   | Clutch, PTO Shaft Cover                                |
| 22  | 25-0266-1       | 1   | RH, Front Shield Bracket                               |
| 23  | 33-0032         | 1   | Hold Down Strap  |
| 24  | 31-0013         | 1   | Solid Spillage Guard                                   |
|     | 31-0013-RH      | 1   | Right Hand Unload Spillage Guard                       |
| 25  | 25-0200         | 1   | TSS X-Apron Front Hold-down                            |
| 26  | 25-0203         | 1   | TSS X-Apron Rear Hold-down                             |
| 27  | 25-0265-1       | 1   | Center, Front Shield Bracket                           |
| 28  | 24-0123         | 1   | Hinged Front Chain Shield Assembly                     |
| 29  | 24-0122         | 1   | Clutch Front Shield End Cap                            |
| 30  | 31-0005         | 1   | PTO Guard (LH)   |
|     | 31-0002         | 1   | PTO Guard (RH)   |
| 31  | 32-0001-1       | 1   | Door Catch, Latch                                      |
| 32  | 24-0124         | 1   | RF Stationary Chain Shield                             |
| 33  | 25-0261         | 1   | Clutch Bottom Bracket, Belt Pan                        |
| 34  | 24-0059         | 1   | Left Conveyor Shaft Shield (No Ext. Only)              |
| 35  | 25-6001-1       | 1   | Auger Shield Catch                                     |
| NS  | TSS-POLY-CC-EXT | 1   | Poly Cross Conveyor Option for Units with 2' Extension |

\* For extension see page 68.

# TSS CROSS CONVEYOR W/IOC

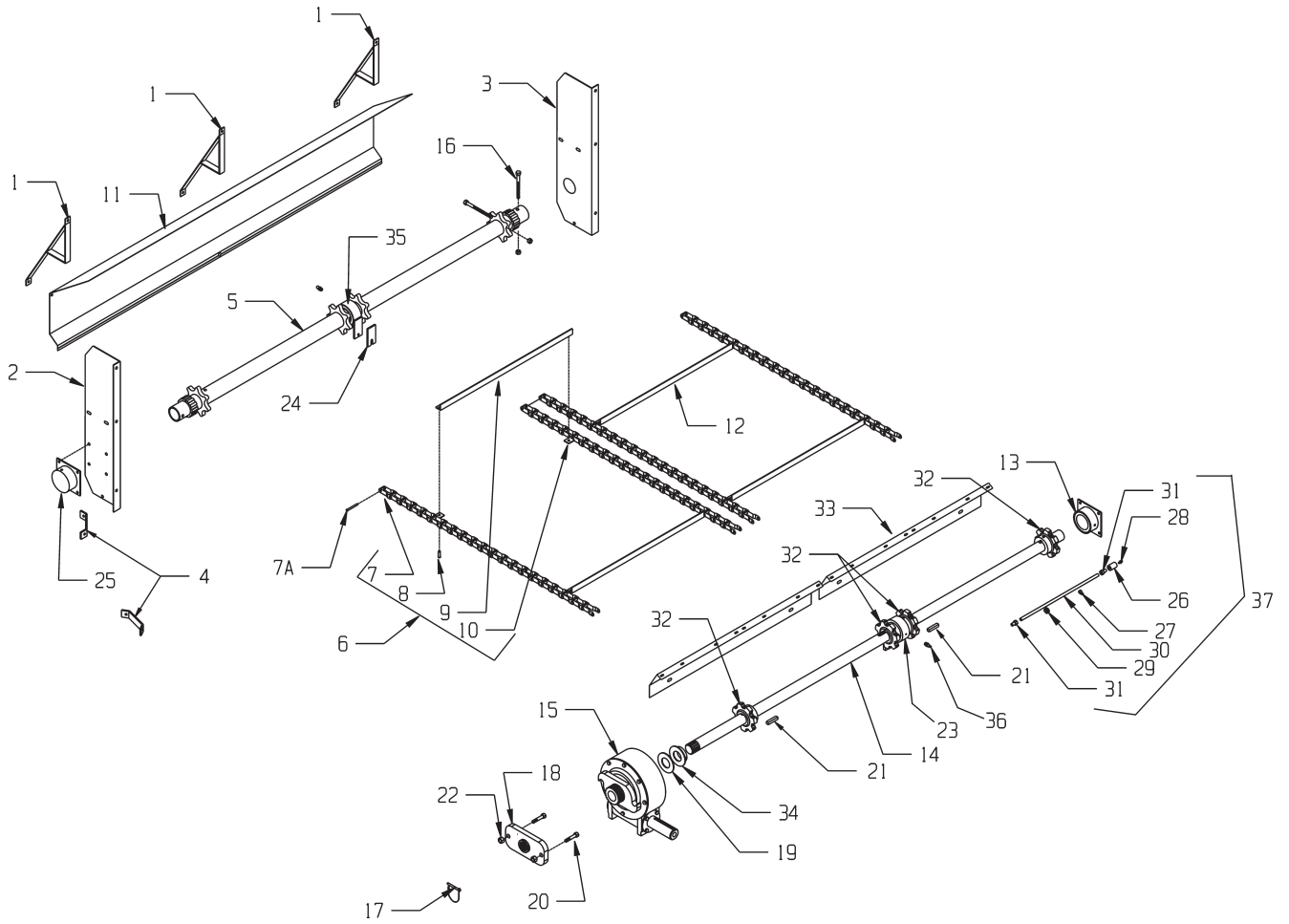


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## TSS CROSS CONVEYOR W/IOC

| KEY | PART NO.      | QTY | DESCRIPTION   |
|-----|---------------|-----|---|
| 1   | 14-0004       | 1   | Bearing Assembly, 1" w/90 Degree Grease Ftg                 |
| 2   | 10-0008       | 4   | Sprocket, No.55-8 Tooth                                     |
| 3   | 14-0057-1     | 3   | 3 Hole Flange w/ Straight Grease Ftg for 1" Brg             |
| 4   | 14-0004-3-BTS | 2   | Bearing, 1" B-Type Seal w/collar                            |
| 5   | 35-0002       | 5   | Key, Woodruff, 1/4"x1-1/4"                                  |
| 6   | 23-0023       | 1   | Shaft, Cross Conveyor (Left)                                |
| 7   | 10-0007       | 1   | Sprocket, 50B28, 1" Bore                                    |
| 8   | 11-0140       | 1   | Roller Chain - #50 (142 links)                              |
| 9   | 11-0059-D     | 1   | Extension Length Cross Apron Pintle Chain Assembly Complete |
|     | 11-0060-D     | 1   | Regular Length Cross Apron Pintle Chain Assembly Complete   |
| 10  | 11-0006-1     | 264 | Link, Pintle Chain (W/2 pins & cotter pins)                 |
| 11  | 11-0006-2     | 19  | Chain Slat w/attachments                                    |
| 12  | 14-0022       | 2   | Tightener Bearing Assy.                                     |
| 13  | 23-0008       | 11  | Cross Conveyor Shaft (Right)                                |
| 14  | 14-0058-1     | 4   | 3 Hole Flange w/ No Zerk for 1" Bearing                     |
| 15  | 14-0004-3-BTS | 2   | Bearing, 1" B-Type Seal w/Collar                            |
| 16  | 25-0074       | 2   | Bracket, Tightener Bearing                                  |
| 17  | 25-0011       | 1   | Bracket, Chain Tightener                                    |
| 18  | 29-0002       | 2   | Spring, Chain Tightener                                     |
| 19  | 41-0001       | 1   | Tightener 5", Nylon Slide                                   |
| 20  | 41-0024       | 1   | Tightener Assy.   |
| 21  | 14-0004       | 1   | Bearing Assembly, 1" w/90 Degree Grease Ftg                 |
| 22  | 14-0059-1     | 1   | 3 Hole Flange w/ 90 Degree Grease Ftg for 1" Brg            |

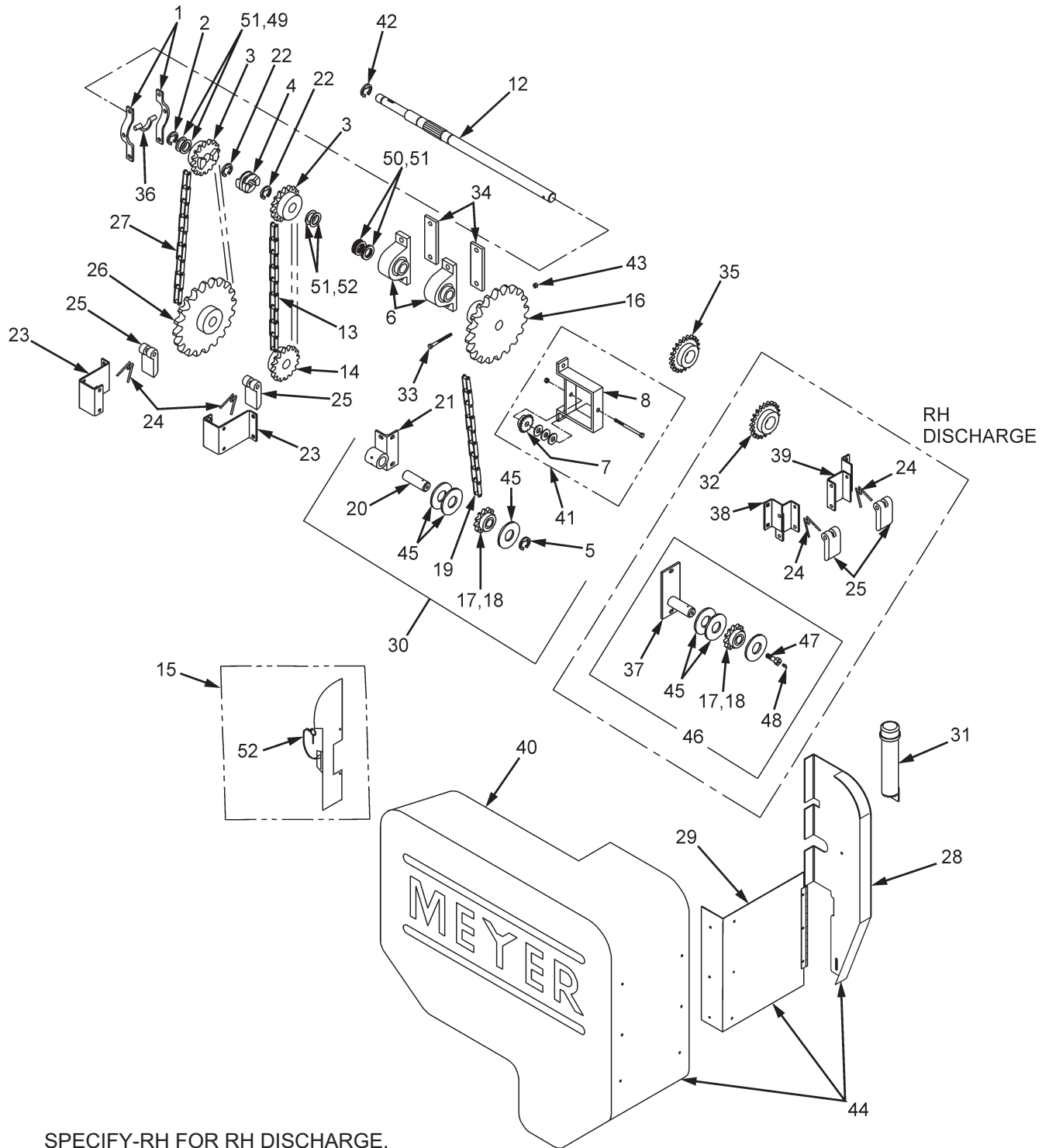
# FRONT & REAR UNLOAD MAIN APRON



## FRONT & REAR UNLOAD MAIN APRON

| KEY | PART NO.   | QTY | DESCRIPTION                           |
|-----|------------|-----|---------------------------------------|
| 1   | 25-0237    | 3   | Rear Apron Shield Brace               |
| 2   | 25-6017-1  | 1   | Right Main Roller Bracket             |
| 3   | 25-6004    | 1   | Left Main Roller Bracket              |
| 4   | 25-6022-1  | 2   | Bearing Bracket Brace                 |
| 5   | 23-0152    | 1   | Rear Drive Main Roller                |
| 6   | 11-0105    | 2   | Chain Assy. 6218 Floor, 667X          |
|     | 11-0106    | 2   | Chain Assy. 6220 Floor, 667X          |
|     | 11-0119    | 2   | Chain Assy. 6222 Floor, 667X          |
|     | 11-0141    | 2   | Chain Assy. 6224 Floor, 667X          |
| 7   | 11-0008-1  |     | Pintle Chain Link-D667X               |
| 7A  | 11-0008-8  |     | Pintle Chain Pin 667X                 |
| 8   | 11-0008-2  |     | Rivet, 3/8x1                          |
| 9   | 11-0080    |     | Main Apron Slat Only                  |
| 10  | 11-0008-3  |     | Attachment Link-D667X                 |
| 11  | 24-0129    | 1   | Rear Shield Complete                  |
| 12  | 11-0084-2  |     | Chain Slat w/attachments-667X         |
| 13  | 14-0050    | 1   | Shaft Bearing Assy., Front Drive      |
| 14  | 23-0151-1  | 1   | Front Drive Main Drive Shaft          |
| 15  | 19-0161    | 1   | Front Gear Reducer (50:1)             |
| 16  | 33-0017    | 2   | Bolt, 5/8 x 3 1/2" Gr5 w/ Lock Nut    |
| 17  | 823-0004   | 2   | Snap Pin                              |
| 18  | 37-0015    | 1   | Splined Drive Plate Assy. W/Bolts     |
| 19  | 933-3606   | 1   | Bronze Washer                         |
| 20  | 831-7516-2 | 2   | Drive Bolt, 3/4-16x2 Allen Head Gr. 8 |
| 21  | 35-0024    | 4   | 1/2x1/2x2-1/2" Square Key             |
| 22  | 844-7516-Z | 2   | 3/4-16 Flange Top Locknut             |
| 23  | 14-0038    | 1   | T300 Front Center Main Drive Bearing  |
| 24  | Shim       | AR  | Center Bearing Bracket Shim           |
| 25  | 14-0034-HD | 1   | Rear Main Roller Shaft Bearing. Assy. |
| 26  | 30-0009    | 1   | 1/8" NPT Coupler                      |
| 27  | 32-0024    | 1   | 9/32" Loom Clamp                      |
| 28  | 30-0002    | 1   | 1/8" NPT Straight Zerk                |
| 29  | 33-1003    | 1   | Rubber Grommet                        |
| 30  | 735-.25CT  |     | Copper Tube Grease Line (By the foot) |
| 31  | 930-3602   | 2   | Male Brass Compression Fitting        |
| 32  | 10-0094-F  | 4   | Sprocket Assy., Front Main Drive      |
| 33  | 27-0032    | 2   | Reverse Chain Guide Panel             |
| 34  | 25-6016    | 1   | Washer Assy., Front Drive             |
| 35  | 14-0055-S  | 1   | Split Center Bearing                  |
| 36  | 30-0018    | 1   | 1/8x1/8 45 Degree Straight Elbow      |
| 37  | 933-3637   | 1   | 51" Grease Line Assembly              |

# TWO SPEED CLUSTER DRIVE



SPECIFY-RH FOR RH DISCHARGE.

ITEMS 15, 28, 29, 40, 52 ARE PARTS OF COMPLETE ASSEMBLY, KEY 44.

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## TWO SPEED CLUSTER DRIVE

| KEY | PART NO.          | QTY. | DESCRIPTION  |
|-----|-------------------|------|--|
| 1   | 17-0001           | 2    | Clutch Shifter Yoke                                  |
| 2   | 33-0012           | 1    | 1-1/4 Dia Retaining Ring                             |
| 3   | 10-0006           | 2    | Clutch Sprocket 50C16 1-1/4 Bore                     |
| 4   | 15-0001           | 1    | Jaw Clutch 1-1/4 Splined Bore                        |
| 5   | 33-1000           | 1    | 1-1/8" Retaining Ring                                |
| 6   | 14-0032           | 4    | 1-1/4 Pillow Block Bearing                           |
|     | 14-0002-3G        |      | 1-1/4 Bearing Only (greaseable)                      |
| 7   | 10-0068           | 1    | Idler Sprocket 50C17 w/Bearing                       |
|     | 10-0068-1         |      | 1/2" Idler Bearing Only                              |
| 8   | 25-0165           | 1    | Idler Sprocket Mounting Brkt                         |
| 12  | 19-0015-1-2SP     | 1    | Upper Gearbox Input Shaft, Drilled                   |
| 13  | 11-0016           | 1    | #50-75 Roller Chain                                  |
| 14  | 10-0093           | 1    | Sprocket 50B24 1-1/4" Bore 5/16" Keyway              |
| 15  | 25-6015           | 1    | Door Catch Assembly                                  |
| 16  | 10-0072           | 1    | Sprocket 50C28 1-1/4" Bore, Drilled                  |
| 17  | 14-0026           | 1    | 1-1/8" B Needle Bearing Only                         |
| 18  | 10-0061           | 1    | Idler Sprocket 50C17 w/Needle Bearing                |
| 19  | 11-0100           | 1    | #50-195 Roller Chain                                 |
| 20  | 23-0044           | 1    | Idler Shaft  |
| 21  | 25-0164           | 1    | Idler Bracket Weldment                               |
| 22  | 33-0018           | 2    | 1-1/4" Snap Ring                                     |
| 23  | 25-0161-1         | 2    | Chain Tensioner Bracket                              |
| 24  | 29-0002           | 4    | Tensioner Spring                                     |
| 25  | 41-0001           | 2    | Tightener, 5" Nylon Slide                            |
| 26  | 10-0058           | 1    | Sprocket 50B42 1-1/4 Bore                            |
| 27  | 11-0030           | 1    | #50-85 Roller Chain                                  |
| 28  | 25-6014           | 1    | Shield Mount Plate                                   |
| 29  | 24-0112-4         | 1    | Shield Support with Hinge                            |
| 30  | 44-0048           | 1    | 2-Spd Front Idler Shaft Assy.                        |
| 31  | 33-0044           | 1    | Manual Holder w/Caps                                 |
| 32  | 10-0004           | 1    | Lower Shaft Sprocket, 50B17 1 1/4" Bore, 1/4" Keyway |
| 33  | 851-3118-3.5Z     | 2    | 5/16x3-1/2 MB GR5                                    |
| 34  | 43-0013-.5        | 2    | Spacer Plate   |
| 35  | 10-0019           | 1    | Sprocket 50B22 1" Bore                               |
| 36  | 21-0001           | 1    | Collar, Clutch Shifter-Brass                         |
| 37* | 25-0189           | 1    | 2-Spd Idler Brkt Plate & Shaft Weldment              |
| 38* | 25-0183-RHH       | 1    | Tightener Bracket Weldment (High)                    |
| 39* | 25-0183-RHL       | 1    | Tightener Bracket Weldment (Low)                     |
| 40  | 24-0112-1         | 1    | Plastic Door Only                                    |
| 41  | 44-0049           | 1    | 2 Spd Idler Brkt Assy. w/Sprocket                    |
| 42  | 19-0055-4-19      | 1    | 1" ID Snap Ring                                      |
| 43  | 815-3118-Z        | 2    | 5/16" Nylon Insert Lock Nut                          |
| 44  | 24-0116-K         | 1    | T300 Unit Shield Assembly                            |
| 45  | 808-1.13-1.75-18  | A/R  | 18 Ga. 1-1/8 ID Machine Bushing                      |
| 46* | 44-0050           | 1    | RH 2 Spd Idler Plate Assy. w/Sprocket                |
| 47  | 33-0030-RH        | 1    | Idler Shaft Grease Bolt, 1/2"x3/4                    |
| 48  | 30-0004           | 1    | 1/4"-28 90° Grease Fitting                           |
| 49  | 808-1.25-1.88-18  | A/R  | 18 Ga. 1-1/4 ID Machine Bushing                      |
| 50  | 808-1.25-1.875-10 | A/R  | 10 Ga. 1-1/4 ID. Machine Bushing                     |
| 51  | 808-1.25-1.875-14 | A/R  | 14 Ga. 1-1/4 ID Machine Bushing                      |
| 52  | 823-0003          | 1    | Lynch Pin  |

\* These items for RH discharge units only

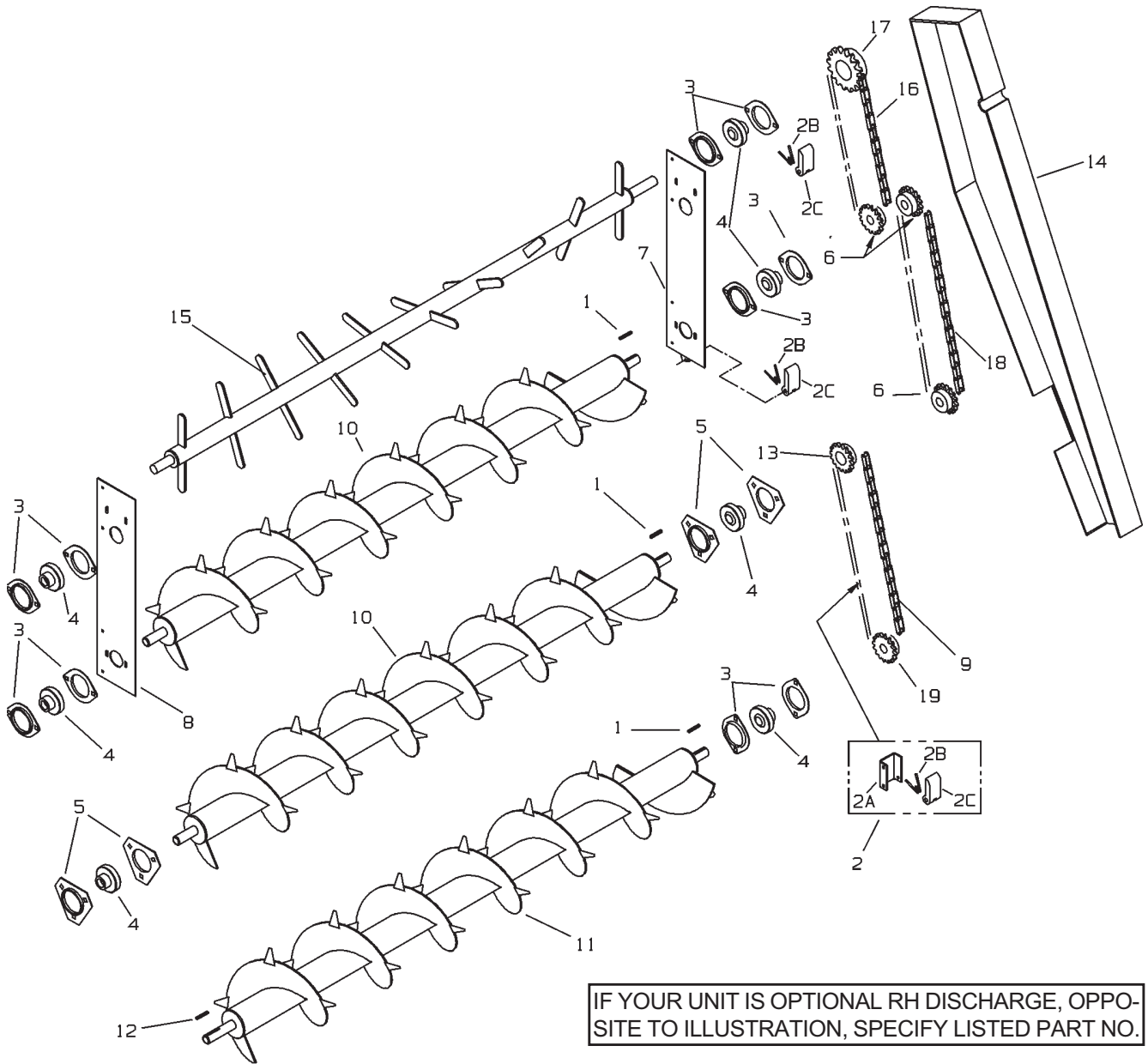


## TSS VARIABLE SPEED CLUSTER DRIVE W/IOC

| KEY | PART NO.          | QTY. | DESCRIPTION                                       |
|-----|-------------------|------|---|
| 1   | 17-0001           | 2    | Clutch Shifter Yoke                               |
| 2   | 33-0012           | 1    | 1-1/4 Dia Retaining Ring                          |
| 3   | 10-0006           | 2    | Clutch Sprocket 50C16 1-1/4 Bore                  |
| 4   | 15-0001           | 1    | Jaw Clutch 1-1/4 Splined Bore                     |
| 5   | 33-1000           | 1    | 1-1/8" Retaining Ring                             |
| 6   | 14-0032           | 4    | 1-1/4 Pillow Block Bearing                        |
|     | 14-0002-3G        |      | 1-1/4 Bearing Only (grease able)                  |
| 7   | 828-0125Z         | 1    | SAE Washer 1-1/4 ID                               |
| 8   | 29-0009           | 1    | Spring, Clutch                                    |
| 9a  | 12-0015-HD        | 1    | Variable Sheave Half, Tapped (Upper Sheave Shaft) |
| 9b  | 12-0009-HD        | 1    | Variable Sheave Half, Tapped (Lower Sheave Shaft) |
|     | 12-0009-1         | 1    | Rubber O-Ring Only (not illustrated)              |
| 10  | 12-0010-HD        | 2    | Fixed Sheave Half                                 |
| 11  | 49-0013           | 1    | Belt  |
| 12  | 19-0015-1         | 1    | Upper Gearbox Input Shaft                         |
| 13  | 11-0016           | 1    | #50-75 Roller Chain                               |
| 14  | 10-0093           | 1    | Sprocket 50B24 1-1/4" Bore, 5/16" Keyway          |
| 15  | 25-6015           | 1    | Door Catch Assembly                               |
| 16  | 10-0035           | 1    | Sprocket 50B19 1-1/4" Bore                        |
| 17  | 10-0061           | 1    | Idler Sprocket 50C17 w/Needle Bearing             |
| 18  | 14-0026           | 1    | 1-1/8" B Needle Bearing Only                      |
| 19  | 11-0140           | 1    | #50-142 Roller Chain                              |
| 20  | 23-0044           | 1    | Idler Shaft                                       |
| 21  | 25-0160           | 1    | Idler Bracket Weldment                            |
| 22  | 23-0045           | 1    | Lower Shaft                                       |
| 23  | 25-0161-1         | 2    | Chain Tensioner Bracket                           |
| 24  | 29-0002           | 4    | Tensioner Spring                                  |
| 25  | 41-0001           | 2    | Tightener, 5" Nylon Slide                         |
| 26  | 10-0058           | 1    | Sprocket 50B42 1-1/4" Bore                        |
| 27  | 11-0030           | 1    | #50-85 Roller Chain                               |
| 28  | 25-6014           | 1    | Shield Mount Plate                                |
| 29  | 24-0112-4         | 1    | Shield Support with Hinge                         |
| 30  | 44-0047           | 1    | TSS Front Idler Shaft Assy.                       |
| 31  | 12-0011-HD        | 8    | Guide Pins, 1/2" Dia.                             |
| 32  | 38-0013           | 1    | Roll Pin, 5/16x1-3/4                              |
| 33  | 851-3118-3.75Z    | 2    | 5/16x3-3/4 MB GR5                                 |
| 34  | 43-0013           | 2    | Spacer Plate                                      |
| 35  | 14-0029           | 1    | 1-1/4" Thrust Bearing                             |
| 36  | 21-0001           | 1    | Collar, Clutch Shifter-Brass                      |
| 37* | 25-0184           | 1    | Idler Brkt Plate & Shaft Wldmt                    |
| 38* | 25-0183-RHH       | 1    | Tightener Bracket Wldmt (High)                    |
| 39* | 25-0183-RHL       | 1    | Tightener Bracket Wldmt (Low)                     |
| 40  | 24-0112-1         | 1    | Plastic Door Only                                 |
| 41* | 44-0047-RH        | 1    | RH TSS Front Idler Shaft Assy.                    |
| 42  | 19-0055-4-19      | 1    | 1" ID Snap Ring                                   |
| 43  | 814-3118-Z        | 2    | 5/16" Center Lock Nut                             |
| 44  | 35-0002           | 1    | 1/4x1-1/4" Woodruff Key                           |
| 45  | 808-1.13-1.75-18  | A/R  | 18 Ga. 1-1/8 ID Machine Bushing                   |
| 46  | 24-0116-K         | 1    | T300 Unit Shield Assembly                         |
| 47  | 12-0015K          | 1    | Upper Sheave Kit Complete                         |
| 48  | 12-0009K          | 1    | Lower Sheave Kit Complete                         |
| 49  | 33-0018           | 2    | 1 1/4" Snap Ring                                  |
| 50  | 808-1.25-1.875-10 | A/R  | 10 Ga. 1-1/4 ID. Machine Bushing                  |
| 51  | 808-1.25-1.875-14 | A/R  | 14 Ga. 1-1/4 ID Machine Bushing                   |
| 52  | 808-1.25-1.88-18  | A/R  | 18 Ga. 1-1/4 ID Machine Bushing                   |
| 53  | 33-0030-RH        | 1    | Idler Shaft Grease Bolt, 1/2"x3/4"                |
| 54  | 30-0004           | 1    | 1/4"-28 90° Grease Fitting                        |
| 55  | 33-0044           | 1    | Manual Holder w/Cap                               |
| 56  | 823-0003          | 1    | Lynch Pin   |
| 57  | 43-0013-.5        | 2    | Spacer Plate                                      |

\* These items for RH discharge units only

# TSS AUGERS & AUGER DRIVE



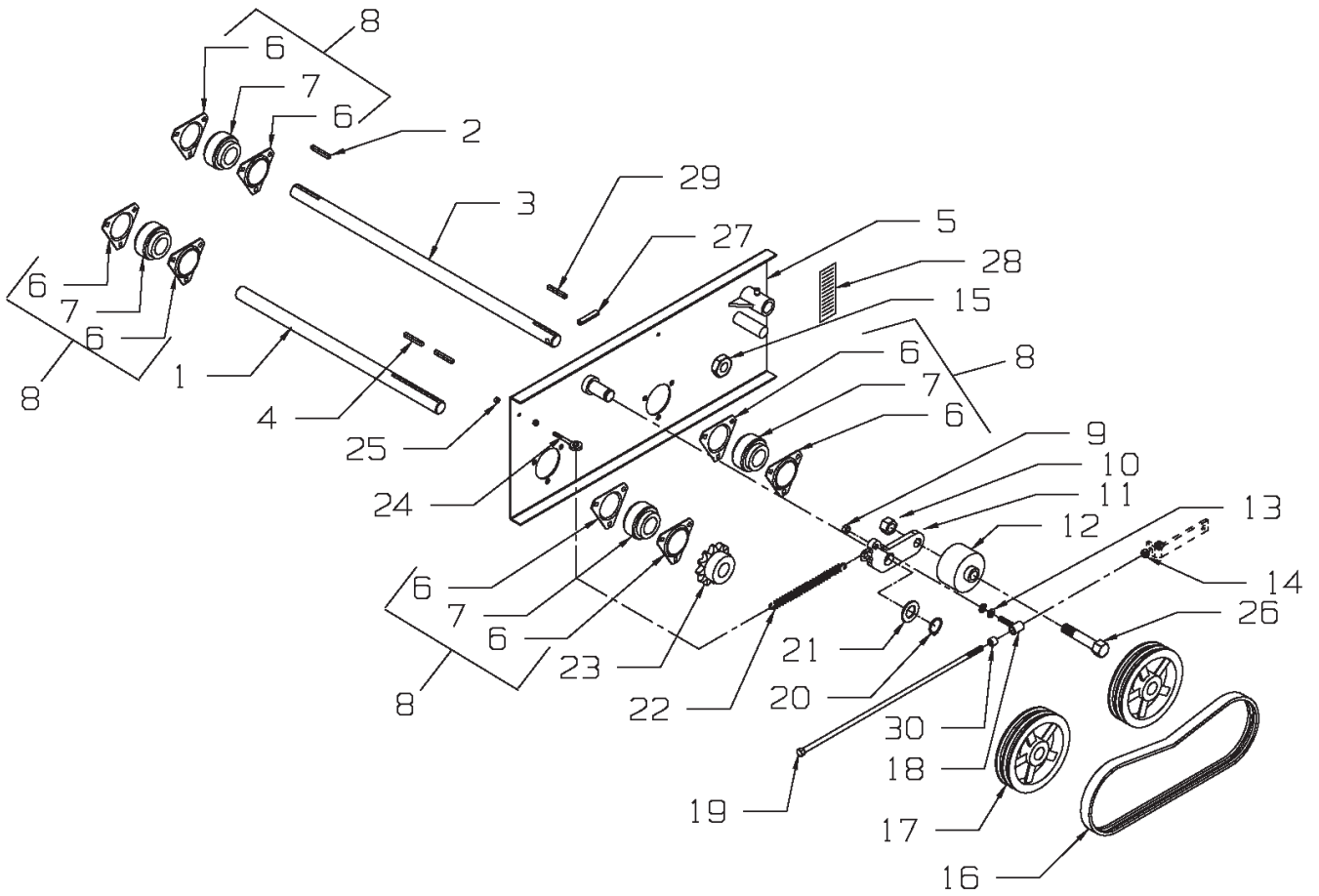
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## TSS AUGERS & AUGER DRIVE

| KEY | PART NO.         | QTY. | DESCRIPTION   |
|-----|------------------|------|---|
| 1   | 35-0006          | 4    | Key 3/8x1-1/4   |
| 2   | 41-0009          | 1    | Lower Auger Drive Chain Tightener Assembly  |
| 2A  | 25-0047          | 1    | Mounting Bracket  |
| 2B  | 29-0002          | 2    | Spring  |
| 2C  | 41-0002          | 1    | Tightener, 3" Nylon Slide   |
| 3   | 14-0003-2        | 10   | 1-1/4 Bearing Flange, 2 Hole  |
| 4   | 14-0002-3        | 7    | Bearing w/Collar 1-1/4  |
| 5   | 14-0002-2        | 4    | 1-1/4 Bearing Flange, 3 Hole  |
| 6   | 10-0012          | 3    | Sprocket 50B17, 1-1/4 Bore, 3/8" Keyway   |
| 7   | 25-6025          | 1    | Top Auger Mounting Bracket w/Tightener Bracket  |
| 8   | 100-9990-200-1-1 | 1    | Right Top Auger Mounting Bracket  |
| 9   | 11-0079          | 1    | Lower Auger #60-80 Roller Chain (Prior to Serial #11T3223)                              |
|     | 111-0060-83      | 1    | Lower Auger #60-83 Roller Chain (Serial #11T3223 & Later)                               |
| 10  | 26-0034          | 2    | Auger 2nd & 3rd   |
|     | 26-0034-FB       | 1    | Feeder Box Models - 2nd Auger   |
| 11  | 26-0033          | 1    | Lower Auger 1/4"Key (Prior to serial #09T3201)  |
|     | 26-0033-FB       | 1    | Feeder Box Lower Auger 1/4" Key (Feeder Box Models: Prior To Serial # 09T5201, 09T6201) |
|     | 26-0036          | 1    | Lower Auger 5/16"Key (Serial #09T3201 & Later)  |
|     | 26-0036-FB       | 1    | Feeder Box Lower Auger 5/16" Key (Feeder Box Models: Serial #09T5201, 09T6201 & Later)  |
| 12  | 35-0028          | 1    | Key 1/4x1-1/4" (Prior to serial #09T3201)   |
|     | 35-0030-H        | 1    | Key 5/16x1-1/4" Hardened (Serial #093201 Thru 11T3222)                                  |
|     | 135-31W-1.25-1   | 1    | Woodruff Key 5/16"x1-1/4" Hardened (Serial #11T3223 & Later)                            |
| 13  | 10-0095          | 1    | 60B15 Sprocket, 1-1/4" Bore, 3/8" Keyway  |
| 14  | 24-6004          | 1    | Auger Shield Welded Assy.   |
| 14A | 24-0123-2        | 3    | Hinges Only   |
| 15  | 26-0035          | 1    | Upper Auger 4th   |
| 16  | 11-0139          | 1    | 3rd-4th Auger Chain #50-89 Link   |
| 17  | 10-0009          | 1    | 50B36 Sprocket, 1-1/4" Bore, 3/8" Keyway  |
| 18  | 11-0074          | 1    | 2nd-3rd Auger Chain #50-94  |
| 19  | 10-0095          | 1    | 60B15 Sprocket, 1-1/4" Bore, 3/8" Keyway (Prior to Serial #11T3223)                     |
|     | 110-60B20-1.25-1 | 1    | 60B20 Sprocket, 1-1/4" Bore, 3/8" Keyway (Serial #11T3223 & Later)                      |

# INDEPENDENT OUTFEED CLUTCH DRIVE

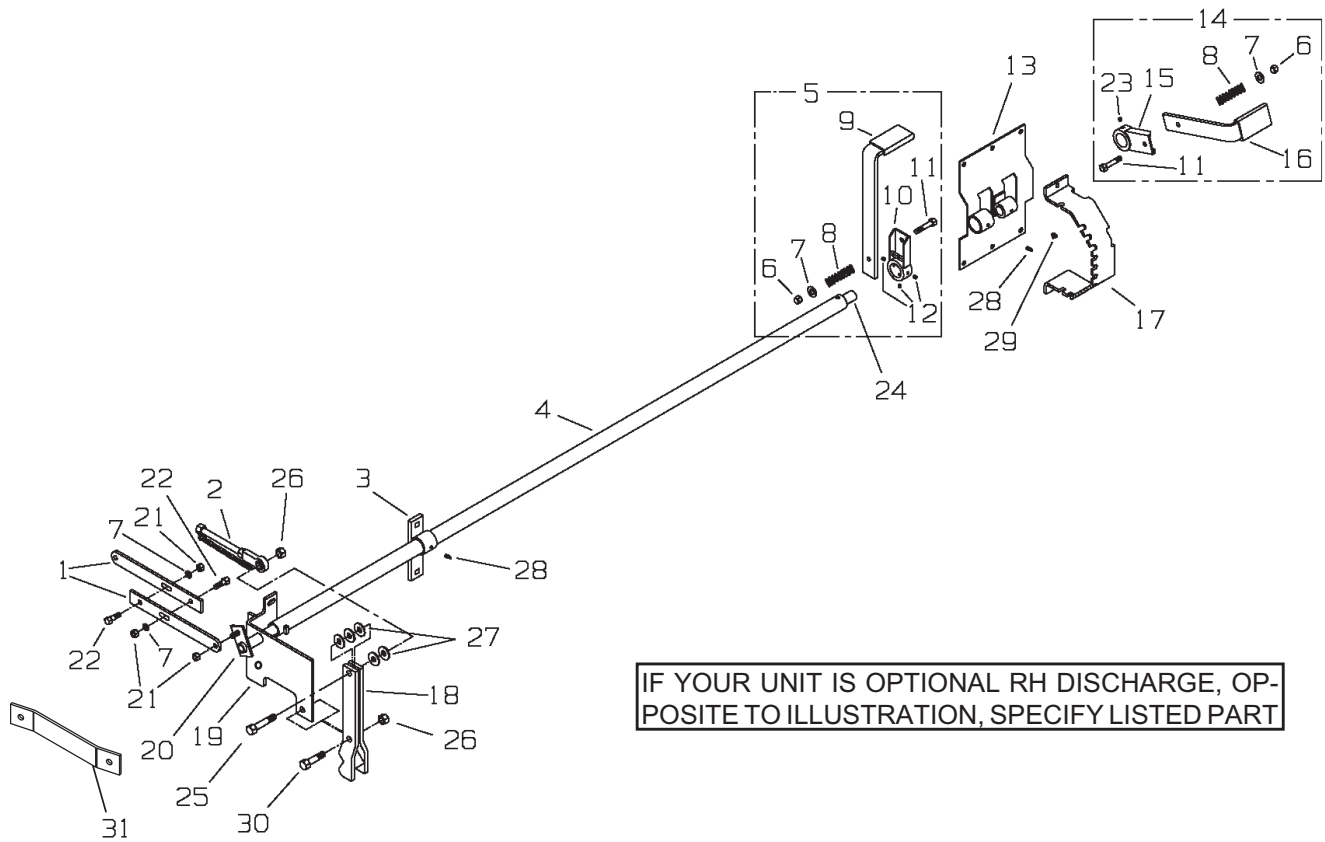
## “STOP” & “RUN” CONTROL RELATED PARTS



## INDEPENDENT OUTFEED CLUTCH DRIVE

| KEY | PART NO.      | QTY. | DESCRIPTION                         |
|-----|---------------|------|-------------------------------------|
| 1   | 23-0081       | 1    | Clutch Drive Idler Shaft            |
| 2   | 35-0016       | 1    | 1/4" x 1/4" x 2-1/4" Key            |
| 3   | 23-0082       | 1    | 2-Way Unit Center Shaft             |
| 4   | 35-0001       | 2    | 1/4" x 1/4" x 1-1/8" Key            |
| 5   | 25-0267       | 1    | Clutch Plate Weldment w/Jam Nut     |
| 6   | 14-0002-2     | 8    | Flange, 3 Hole, 1-1/4"              |
| 7   | 14-0002-3     | 4    | Bearing, 1-1/4" w/Collar            |
| 8   | 14-0002       | 4    | Bearing Assembly, 1-1/4"            |
| 9   | 814-3816-Z    | 1    | 3/8" -16 Indented Lock Nut          |
| 10  | 933-3621      | 1    | 3/4" -10 Jam Nut                    |
| 11  | 25-0260-4     | 1    | Clutch Tightener Arm Weldment       |
| 12  | 912-0002-1    | 1    | Tightener Roller 2" (Rubber)        |
| 13  | 805-0038-Z    | 2    | 3/8" Flat Washer                    |
| 14  | 813-3816-Z    | 1    | 3/8" -16 Regular Nut                |
| 15  | 826-1014      | 1    | 1"-14 Jam Nut (only)                |
| 16  | 49-0023       | 1    | Clutch, Double V-Belt               |
| 17  | 12-0020       | 2    | 8" Double Pulley, 1-1/4"B, 1/4" KWY |
| 18  | 16-0041       | 1    | Linkage Pivot Sleeve Weldment       |
| 19  | 801-3816-17.5 | 1    | 3/8" -16 x 17-1/2" HHCS             |
| 20  | 33-0020       | 1    | Retaining Ring                      |
| 21  | 808-1-1.15-18 | A/R  | 18 Ga. 1" ID Machine Bushing        |
| 22  | 29-0005       | 1    | Extension Spring                    |
| 23  | 10-0004       | 1    | 50B17 Sprocket, 1-1/4"B, 1/4" KWY   |
| 24  | 811-2520-2.5Z | 1    | 1/4" -20 x 2-1/2" Eye Bolt - Zinc   |
| 25  | 810-2520-Z    | 2    | 1/4" -20 Flange Spin Lock Nut       |
| 26  | 851-7510-3Z   | 1    | 3/4" -10 x 3" GR5 MB ZN             |
| 27  | 38-0015       | 1    | 5/16" x 2" Roll Pin                 |
| 28  | 46-0001-68    | 1    | Rear Unload Engage/Disengage Decal  |
| 29  | 35-0021       | 1    | 1/4" x 1/4" x 1-3/4" Key            |
| 30  | 43-0022       | 1    | Spacer                              |

# VARIABLE SPEED SHIFTER CONTROLS AND EMERGENCY STOP CLUTCH RELATED PARTS

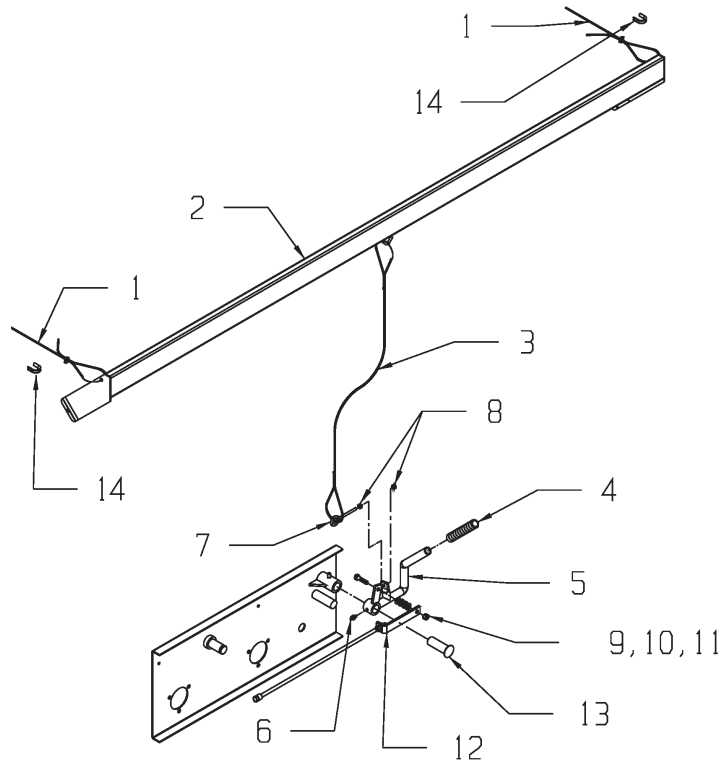


IF YOUR UNIT IS OPTIONAL RH DISCHARGE, OPPOSITE TO ILLUSTRATION, SPECIFY LISTED PART

## VARIABLE SPEED SHIFTER CONTROLS AND EMERGENCY STOP CLUTCH RELATED PARTS

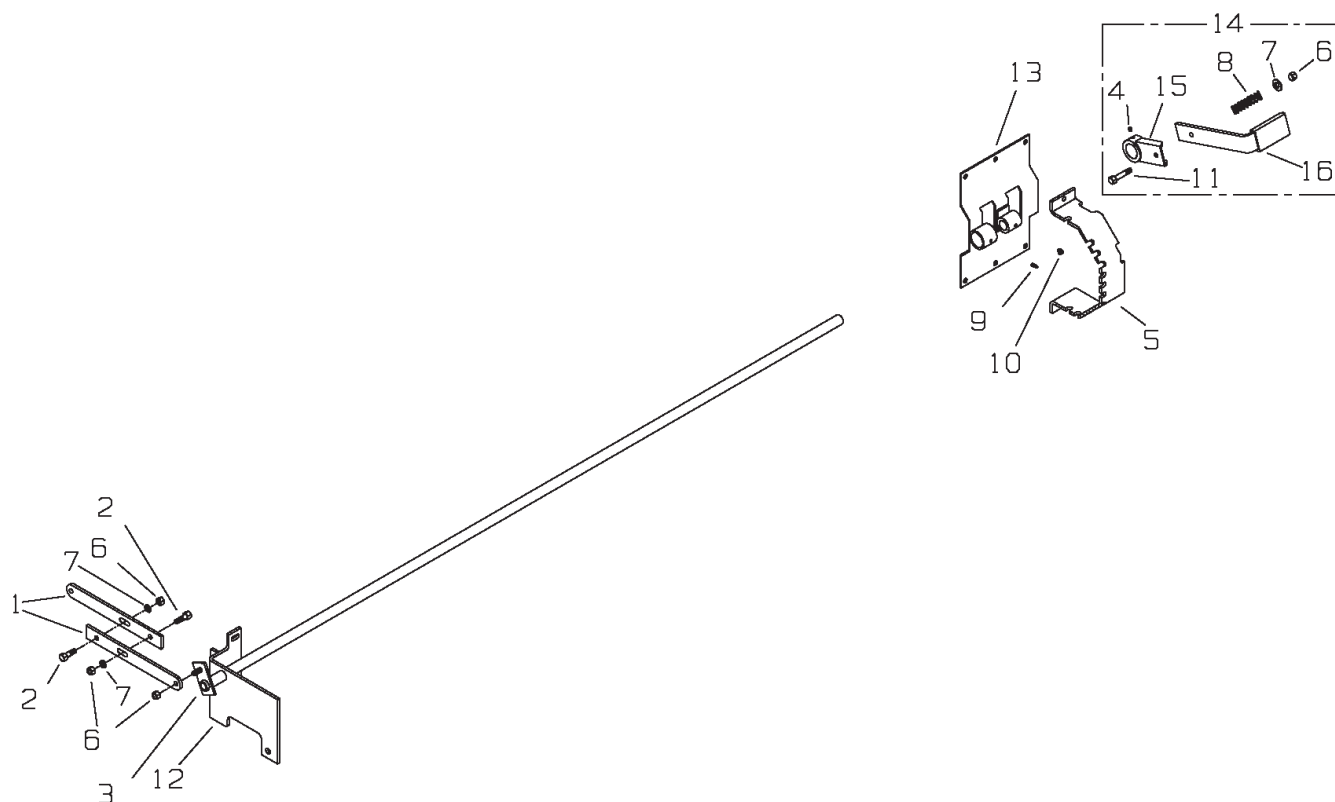
| KEY | PART NO.       | QTY. | DESCRIPTION                          |
|-----|----------------|------|--------------------------------------|
| 1   | 42-0022-1      | 2    | Linkage Bar                          |
| 2   | 42-0021        | 1    | Bolt w/chain& Eyelet                 |
| 3   | 42-0013        | 1    | Pipe Guide Bracket Assy.             |
| 4   | 16-0031        | 1    | Speed Control Pipe                   |
| 5   | 16-0029        | 1    | Speed Control Handle Assy.           |
| 6   | 814-3816-Z     | 2    | 3/8 Locknut (Zinc)                   |
| 7   | 805-0038- Z    | 4    | 3/8 Flat Washer (Zinc)               |
| 8   | 29-0008        | 2    | Spring                               |
| 9   | 42- 0020       | 1    | Speed Control Handle                 |
| 10  | 42-0019        | 1    | Speed Control Hub Wldmt              |
| 11  | 851-3816-2Z    | 1    | 3/8x2 Machine Bolt                   |
| 12  | 827-3118-.38   | 3    | 5/16x3/8 Set Screw                   |
| 13  | 25-0158        | 1    | Quadrant Bracket Wldmt               |
| 14  | 16-0030        | 1    | Range Control Handle Assy.           |
| 15  | 42-0018        | 1    | Range Control Hub Wldmt              |
| 16  | 16-0028        | 1    | Range Control Handle                 |
| 17  | 25-0154        | 1    | Control Quadrant                     |
| 18  | 25-0151        | 1    | Control Assy..                       |
| 19  | 25-0157        | 1    | Speed Control Bracket                |
| 20  | 16-0032-2      | 1    | Range Control Pipe Ear               |
| 21  | 814-3816-Z     | 3    | 3/8 Locknut (Zinc)                   |
| 22  | 851-3816-1.25Z | 2    | Bolt 3/8-16x1.25                     |
| 23  | 38-0003        | 1    | Roll Pin                             |
| 24  | 16-0032        | 1    | Range Control Pipe Assy.             |
| 25  | 851-5013-2.5Z  | 1    | ½-13x2-1/2" Bolt                     |
| 26  | 814-5013-Z     | 2    | ½-13 Lock Nut                        |
| 27  | 828-0050-Z     | 5    | ½" Washer                            |
| 28  | 30-0001        | 2    | 1/4" Grease Zerk                     |
| 29  | 30-0003        | 1    | 1/4" 45° Grease Zerk                 |
| 30  | 851-5013-2Z    | 1    | Bolt 1/2x2                           |
| 31  | 25-0167        | 1    | TSS Range Pipe Support Bracket Brace |

## INDEPENDENT OUTFEED CLUTCH



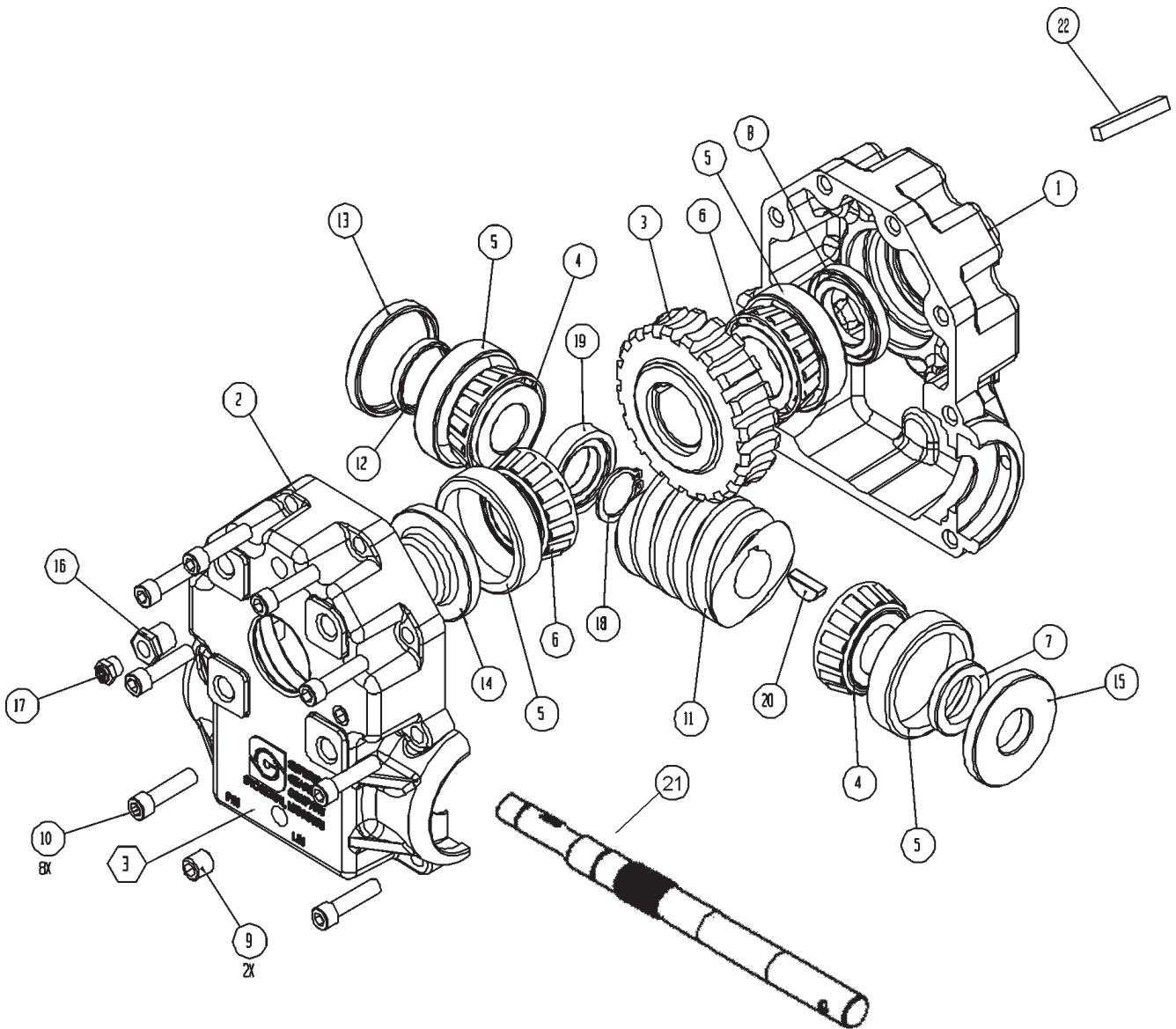
| KEY | PART NO.      | QTY. | DESCRIPTION                            |
|-----|---------------|------|--|
| 1   | 36-0001       | 2    | Cables, Emergency Stop                 |
|     | 36-0007       | 4    | Cable Crimp Only                       |
| 2   | 16-0010       | 1    | Push Bar, Emergency Stop, Control      |
| 3   | 36-0002       | 1    | Cable, Emergency Stop Front,           |
|     | 36-0007       | 2    | Cable Crimp Only                       |
| 4   | 51-0003       | 1    | 7/8" ID Rubber Grip Only               |
| 5   | 16-0044       | 1    | I.O.C. Clutch Handle - Weldment        |
| 6   | 30-0001       | 1    | 1/4"-28 Straight Grease Fitting        |
| 7   | 811-2520-1Z   | 1    | 1/4"-20x1" Eye Bolt - Zinc             |
| 8   | 814-2520-Z    | 1    | 1/4"-20 Indented Lock Nut              |
| 9   | 851-3816-1.5Z | 1    | 3/8"-16x1-1/2" Machine Bolt - Zinc GR5 |
| 10  | 805-0038-Z    | 4    | 3/8" Flat Washer                       |
| 11  | 814-3816-Z    | 1    | 3/8"-16 Indented Lock Nut              |
| 12  | 25-0268-1     | 1    | Linkage Extension Plate                |
| 13  | 25-0279       | 1    | Pivot Shaft Weldment                   |
| 14  | 33-0048       | 2    | Cable Thimble                          |

## TWO SPEED HI-LO SHIFTER CONTROL



| KEY | PART NO.       | QTY. | DESCRIPTION                |
|-----|----------------|------|----------------------------|
| 1   | 42-0022-1      | 2    | Linkage Bar                |
| 2   | 851-3816-1.25Z | 2    | Bolt 3/8-16x1.25           |
| 3   | 16-0032-2      | 1    | Range Control Pipe Ear     |
| 4   | 38-0003        | 1    | Roll Pin 1/4 x 1-1/4"      |
| 5   | 25-0154        | 1    | Control Quadrant           |
| 6   | 814-3816-Z     | 4    | 3/8 Locknut (Zinc)         |
| 7   | 805-0038- Z    | 3    | 3/8 Flat Washer (Zinc)     |
| 8   | 29-0008        | 1    | Spring                     |
| 9   | 30-0001        | 2    | 1/4" Grease Zerk           |
| 10  | 30-0003        | 1    | 1/4" 45° Grease Zerk       |
| 11  | 851-3816-2Z    | 1    | 3/8x2 Machine Bolt         |
| 12  | 25-0157        | 1    | Speed Control Bracket      |
| 13  | 25-0158        | 1    | Quadrant Bracket Widmt     |
| 14  | 16-0030        | 1    | Range Control Handle Assy. |
| 15  | 42-0018        | 1    | Range Control Widmt        |
| 16  | 16-0028        | 1    | Range Control Handle       |

# UPPER GEAR BOX WITH INPUT SHAFT ASSEMBLY 10:1



6200-UpperGearBox.cdr

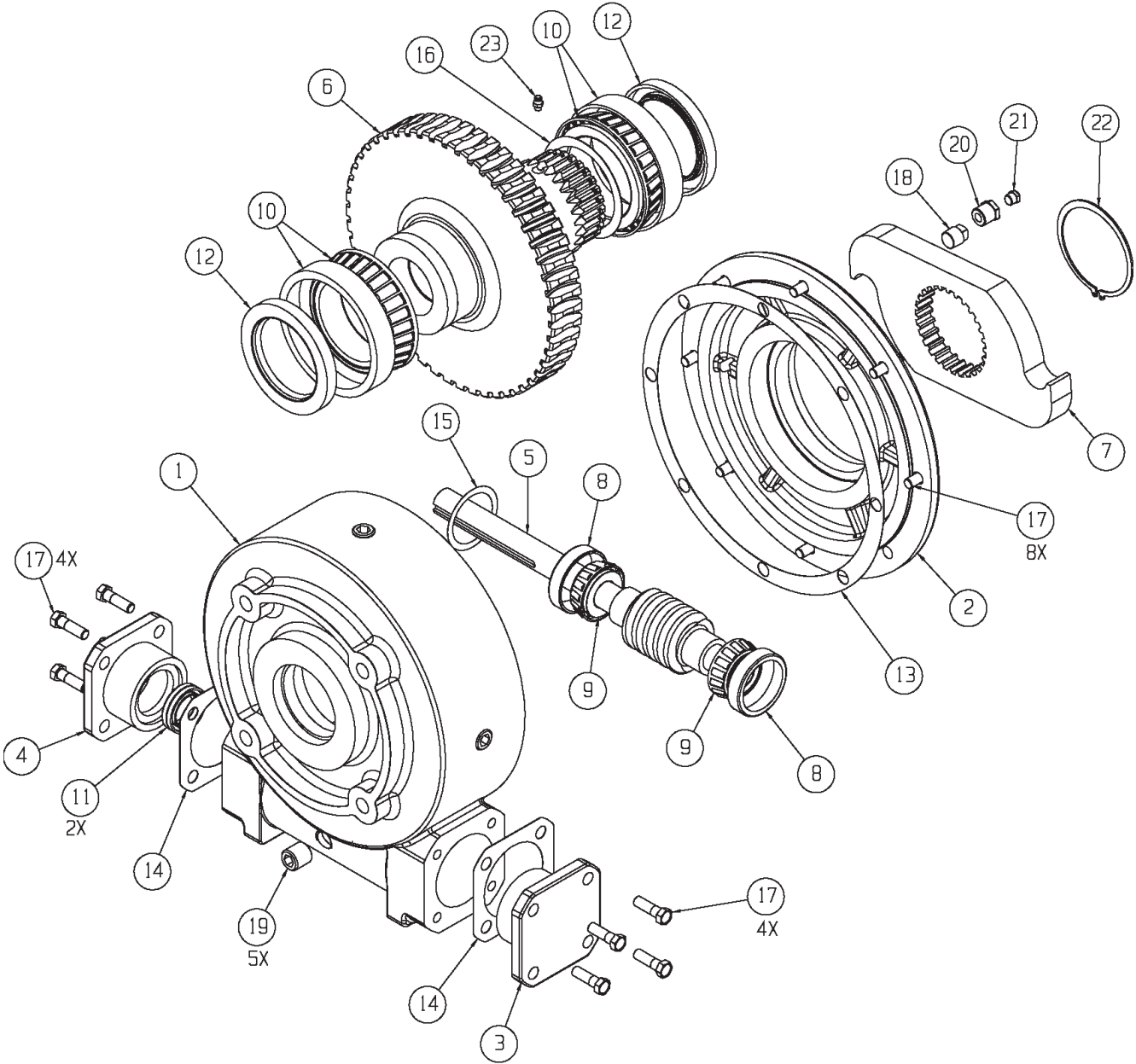
USE ONLY SYNTHETIC ISO 460 GEAR OIL AGMA 7 (NON EP) OR EQUIVALENT. DO NOT USE GREASE FOR LUBRICANT.

## UPPER GEAR BOX WITH INPUT SHAFT ASSEMBLY 10:1

| KEY | PART NO.         | QTY | DESCRIPTION  |
|-----|------------------|-----|--|
|     | 19-0158          | 1   | Upper Gearbox w/ Input Shaft, 10:1, 5/16" Key                                    |
|     | 19-0158-4        | 1   | Upper Gearbox w/o Input Shaft, 10:1, 5/16" Key                                   |
| 1   | 19-0055-4-1      | 1   | Tapped Gearbox Casting   |
| 2   | 19-0055-4-2      | 1   | Thru Hole Casting  |
| 3   | 19-0058-GS       | 1   | 10:1 Gear Set, 4140 Gear, Bronze Worm, 5/16" Key (Prior to 12T5296, 12T6226)     |
|     | 19-0058-4-2-4140 | 1   | 10:1 4140 Gear, 5/16" Key (Serial #12T5296, 12T6226 & Later)                     |
| 4   | 19-0055-4-4      | 2   | Bearing Cone   |
| 5   | 19-0055-4-5      | 4   | Bearing Cup  |
| 6   | 19-0055-4-6      | 2   | Bearing Cone   |
| 7   | 19-0024-12       | 1   | Seal 1" ID x 1 1/2" OD   |
| 8   | 19-0016-10       | 1   | Seal 1 1/4" ID x 2" OD   |
| 9   | 19-0055-4-9      | 2   | Plug, 1/4-18 NPT Plug  |
| 10  | 19-0055-4-21     | AR  | Bolt 5/16-18 x 1 1/4" SHCS   |
| 11  | 19-0058-GS       | 1   | 10:1 Gear Set, 4140 Gear, Bronze Worm, 5/16" Key (Prior to 12T5296, 12T6226)     |
|     | 19-0058-4-3-BR   | 1   | Bronze Rolled Worm Gear 10:1 (Serial #12T5296, 12T6226 & Later)                  |
| 12  | 19-0024-28       | 1   | End Cap 1 1/2"   |
| 13  | 19-0024-19       | 1   | End Cap 2 5/16"  |
| 14  | 19-0055-4-15     | 1   | End Cap 2"   |
| 15  | 19-0024-27       | 1   | Seal 1" ID x 2 5/16" OD  |
| 16  | 19-0055-4-17     | 1   | Bushing 1/4" NPT x 1/8" NPT  |
| 17  | 19-0055-4-18     | 1   | Vent Plug 5 PSI  |
| 18  | 19-0055-4-19     | 1   | External Retaining Ring 1.0 Shaft  |
| 19  | 19-0055-4-20     | 1   | 1" ID Spacer   |
| 20  | 19-0003-6        | 1   | Woodruff Key   |
| 21  | 19-0015-1        | 1   | TSS Input Shaft  |
| 22  | 35-0028          | 1   | Key, 1/4"x1-1/4" (Superior Split Housing) (Prior to SN 09T3201)                  |
|     | 35-0030-H-SK     | 1   | Key, 1/4"x5/16"x1-1/4" Hardened(w/Updated Gear or GearBox) (Prior to SN 09T3201) |
|     | 35-0030-H        | 1   | Key, 5/16"x5/16"x1-1/4" Hardened (Serial #09T3201 thru 11T3222)                  |
|     | 135-31W-1.25-1   | 1   | Key, Woodruff 5/16x1-1/4" Hardened (11T3223 & Later)                             |

# #19-0061 50:1 RATIO, FRONT, LOWER GEARBOX 6200 SERIES

Lower gearbox used on Serial #07T3213 & earlier.  
For later models see page 62.



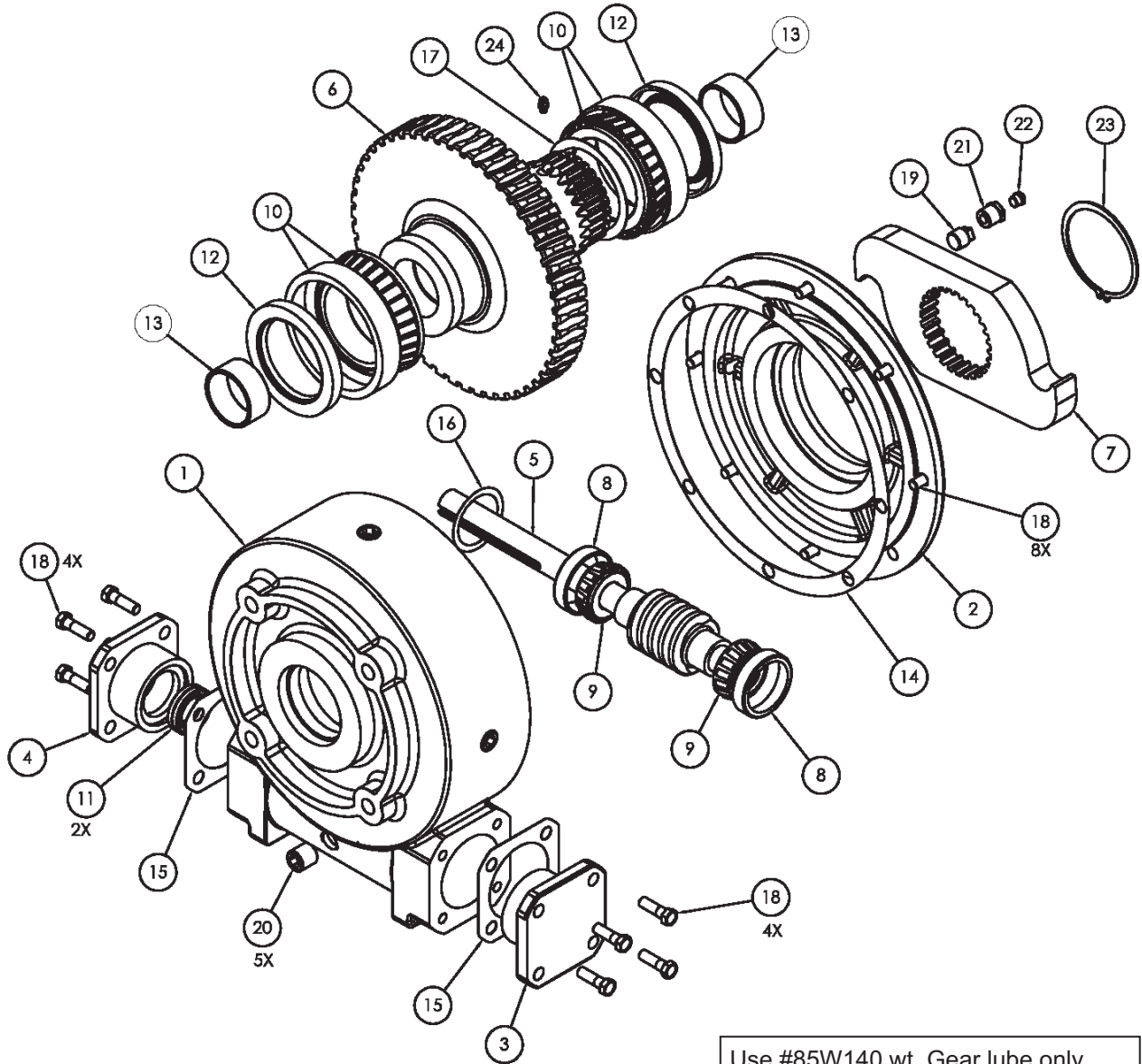
**Use #85W140 wt. Gear Lube Oil ONLY.  
DO NOT USE GREASE FOR LUBRICANT.**

**#19-0061**  
**50:1 RATIO, FRONT, LOWER GEARBOX**  
**6200 SERIES**

| KEY | PART NO.    | QTY.  | DESCRIPTION                |
|-----|-------------|-------|----------------------------|
| 1   | 19-0061-1   | 1     | Housing                    |
| 2   | 19-0061-2   | 1     | Output Cover               |
| 3   | 19-0051-3   | 1     | End cap                    |
| 4   | 19-0051-4   | 1     | End cap                    |
| 5   | 19-0051-5   | 1     | Input Worm Shaft           |
| 6   | 19-0061-3   | 1     | Gear Wheel 27 Tooth Spline |
| 7   | 37-0016-1   | 1     | Drive Plate                |
| 8   | 19-0051-8   | 2     | Bearing, Input Cup         |
| 9   | 19-0051-9   | 2     | Bearing, Input Cone        |
| 10  | 19-0061-4   | 2     | Bearing, Output Cup/Cone   |
| 11  | 19-0051-12  | 2     | Input Seal                 |
| 12  | 19-0061-5   | 2     | Output Seal                |
| 13  | 19-0051-16  | 1     | Cover Gasket               |
| 14  | 19-0051-17  | 2     | Input Gasket               |
| 15  | 19-0051-18  | AR    | Input Shim                 |
| 16  | 19-0061-6   | AR    | Output Shim                |
| 17  | 851-3816-1Z | 16    | Bolt 3/8-16x1" Grade 5     |
| 18  | 19-0061-7   | 1     | Plug, 3/8-18 NPT           |
| 19  | 19-0061-8   | 5     | Plug, 1/2-14 NPT           |
| 20  | 19-0051-21  | 1     | Bushing 1/2-14/1/8-27      |
| 21  | 19-0057-24  | 1     | Plug, 5 PSI                |
| 22  | 19-0061-9   | 1     | Retaining Ring External    |
| 23  | 30-0022     | 1     | Grease Zerk 1/4-28         |
| 24  | 48-0044     | 88 OZ | Lube, EP 85W140            |

**#19-0161**  
**50:1 RATIO, FRONT, LOWER GEARBOX**  
**6200 SERIES**

Lower gearbox used on serial #07T3214 & later. For earlier models see page 60.

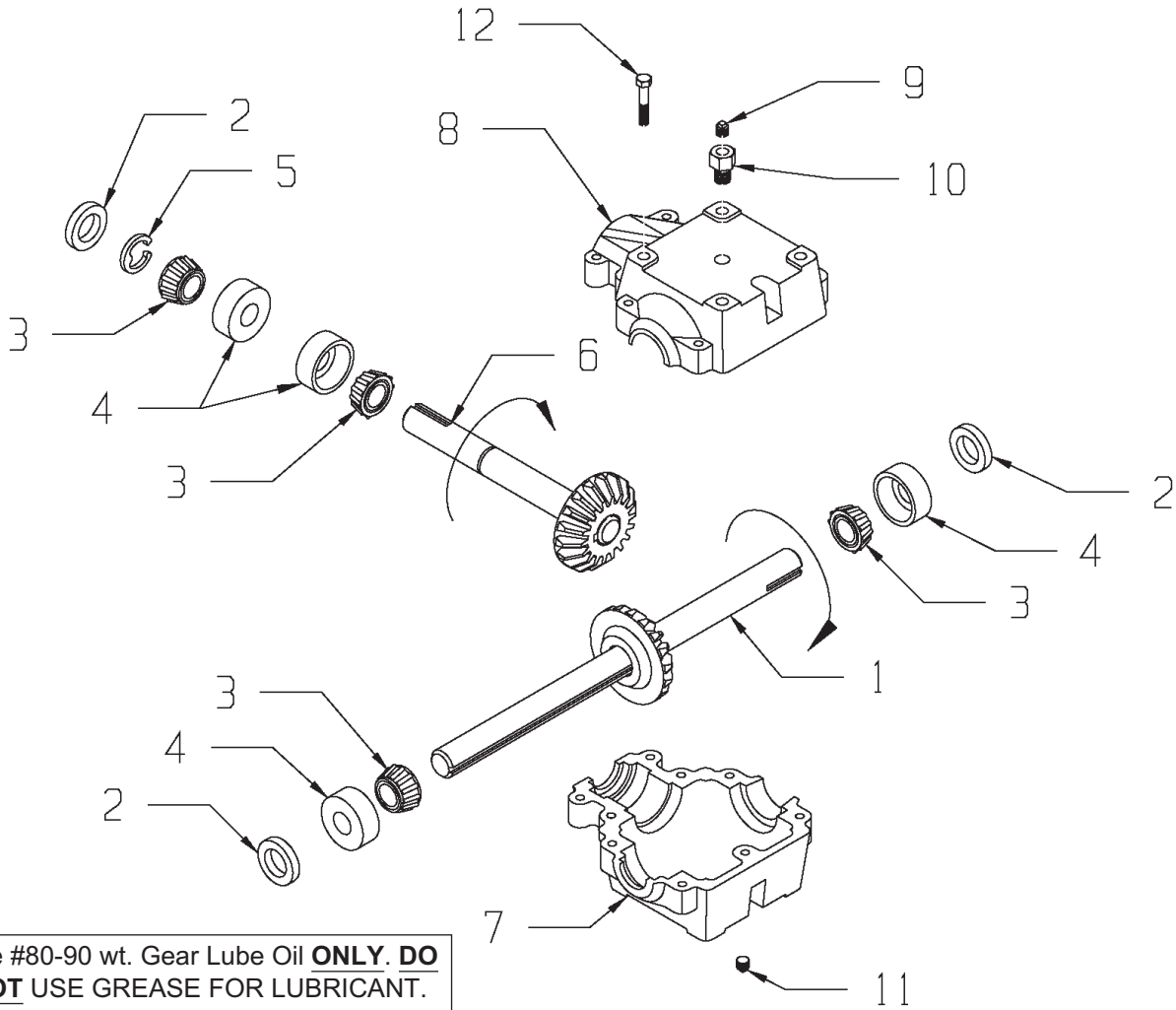


Use #85W140 wt. Gear lube only.  
DO NOT use grease for lubrication.

**#19-0161**  
**50:1 RATIO, FRONT, LOWER GEARBOX**  
**6200 SERIES**

| KEY | PART NO.    | QTY. | DESCRIPTION                |
|-----|-------------|------|----------------------------|
| 1   | 19-0061-1   | 1    | Housing                    |
| 2   | 19-0061-2   | 1    | Output Cover               |
| 3   | 19-0051-3   | 1    | End cap (Closed)           |
| 4   | 19-0051-4   | 1    | End cap (Open)             |
| 5   | 19-0051-5   | 1    | Input Worm & Shaft Assy    |
| 6   | 19-0061-3   | 1    | Gear Wheel 27 Tooth Spline |
| 7   | 37-0016-1   | 1    | Drive Plate                |
| 8   | 19-0051-8   | 2    | Bearing, Input Cup         |
| 9   | 19-0051-9   | 2    | Bearing, Input Cone        |
| 10  | 19-0061-4   | 2    | Bearing, Output Cup/Cone   |
| 11  | 19-0051-12  | 2    | Input Seal                 |
| 12  | 19-0061-5   | 2    | Output Seal                |
| 13  | 19-0161-4   | 2    | Bushing, Al Bronze         |
| 14  | 19-0051-16  | 1    | Cover Gasket               |
| 15  | 19-0051-17  | 2    | Input Gasket               |
| 16  | 19-0051-18  | AR   | Input Shim                 |
| 17  | 19-0061-6   | AR   | Output Shim                |
| 18  | 851-3816-1Z | 16   | Bolt 3/8-16x1" Grade 5     |
| 19  | 19-0061-7   | 1    | Plug, 3/8-18 NPT           |
| 20  | 19-0061-8   | 5    | Plug, 1/2-14 NPT           |
| 21  | 19-0051-21  | 1    | Bushing 1/2-14/1/8-27      |
| 22  | 19-0057-24  | 1    | Plug, 5 PSI                |
| 23  | 19-0061-9   | 1    | Retaining Ring External    |
| 24  | 30-0001     | 1    | Grease Zerk 1/4-28         |
| 25  | 48-0044     | 88oz | Lube, E85W140              |

## #19-0038 2:1 RATIO GEARBOX

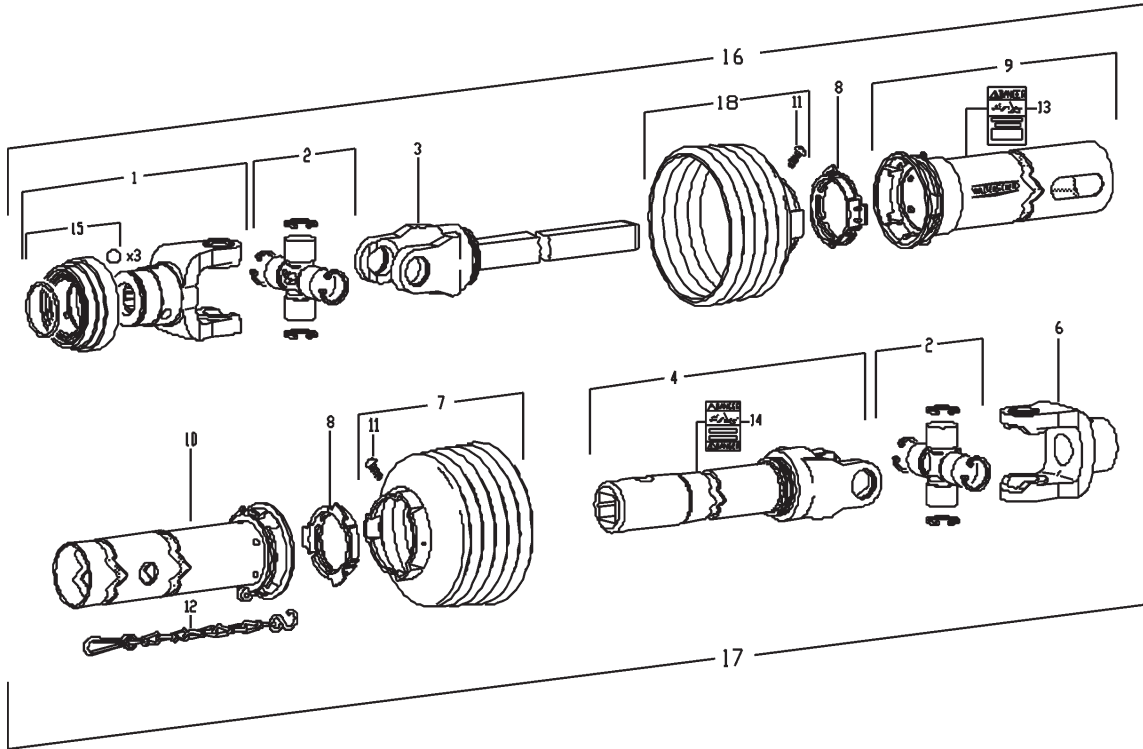


Use #80-90 wt. Gear Lube Oil **ONLY**. **DO NOT** USE GREASE FOR LUBRICANT.

| 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       |

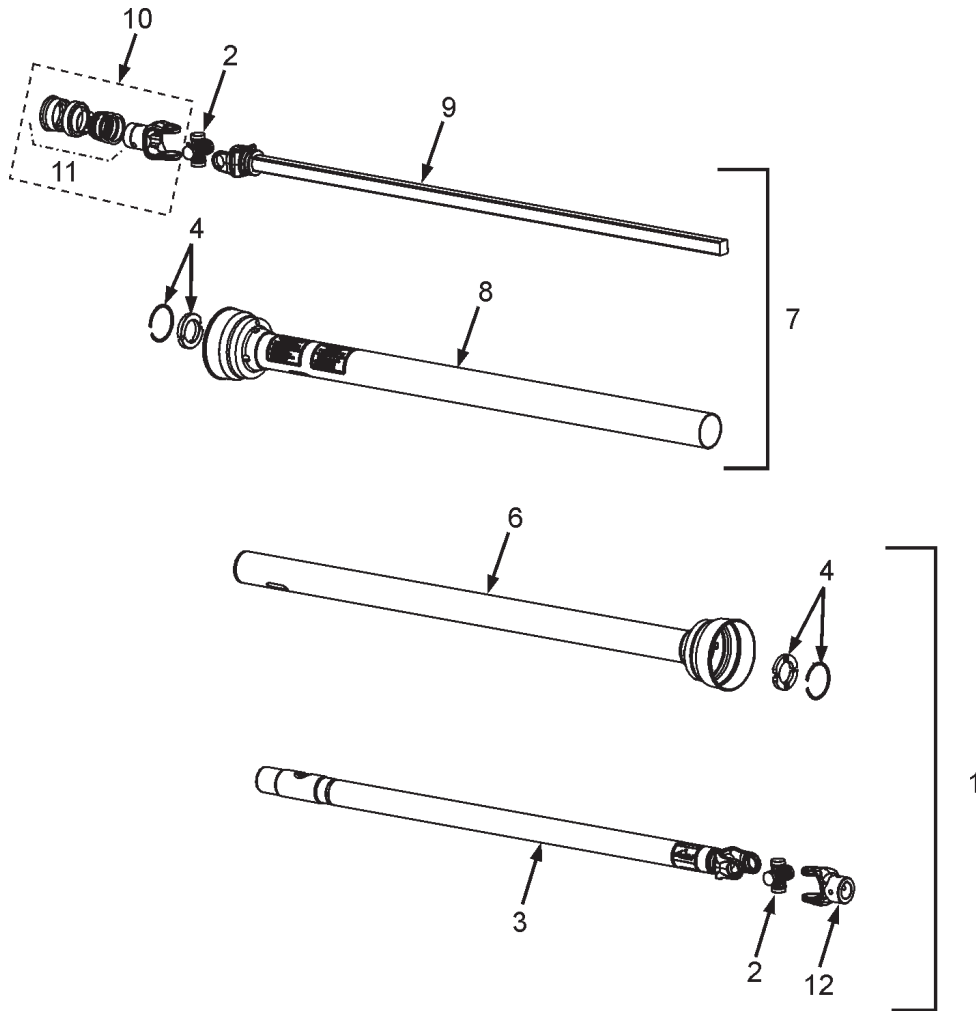
**IMPORTANT:** VERIFY CORRECT DRIVE ROTATION BEFORE OPERATING. FAILURE TO DO SO MAY RESULT IN SEVERE EQUIPMENT DAMAGE.

**#18-0117**  
**UNIVERSAL JOINT TELESCOPING ASSEMBLY**  
**PRIOR TO 2013 MODEL YEAR**



| KEY | PART NO.      | QTY. | DESCRIPTION                                |
|-----|---------------|------|--|
|     | 18-0117       | 1    | Joint Assembly                             |
| 1   | 18-0117-1-1   | 1    | 1 3/8-6 Spline Yoke ASGE                   |
| 2   | 18-0117-1-2   | 2    | Cross and Bearing Kit                      |
| 3   | 18-0117-1-3   | 1    | Inboard Yoke and Bar Welded Assy.          |
| 4   | 18-0117-2-1   | 1    | Inboard Yoke, Tube and Sleeve Welded Assy. |
| 6   | 18-0117-2-2   | 1    | 1 1/4" Bore, 1/4" Key Yoke                 |
| 7   | 18-0117-1-4   | 1    | Shield Cone 5-Rib                          |
| 8   | 918-0208-2-4  | 2    | Bearing Ring SC25                          |
| 9   | 18-0117-1-6   | 1    | Outer Shield Tube Oval                     |
| 10  | 18-0117-2-3   | 1    | Inner Shield Tube Round                    |
| 11  | 918-0208-2-9  | 2    | Screw-Included in Item #7                  |
| 12  | 918-0208-2-7  | 1    | Safety Chain                               |
| 13  | 918-0208-2-8  | 1    | Decal Outer-Included in Item #9            |
| 14  | 918-0208-1-10 | 1    | Decal Inner-Included in Item #4            |
| 15  | 18-0117-1-1-1 | 1    | ASGE Collar Kit-Included in Item #1        |
| 16  | 18-0117-1     | 1    | Tractor Male Half Complete                 |
| 17  | 18-0117-2     | 1    | Implement Female Half Shaft Complete       |
| 18  | 18-0117-1-7   | 1    | Shield Cone 4-Rib                          |

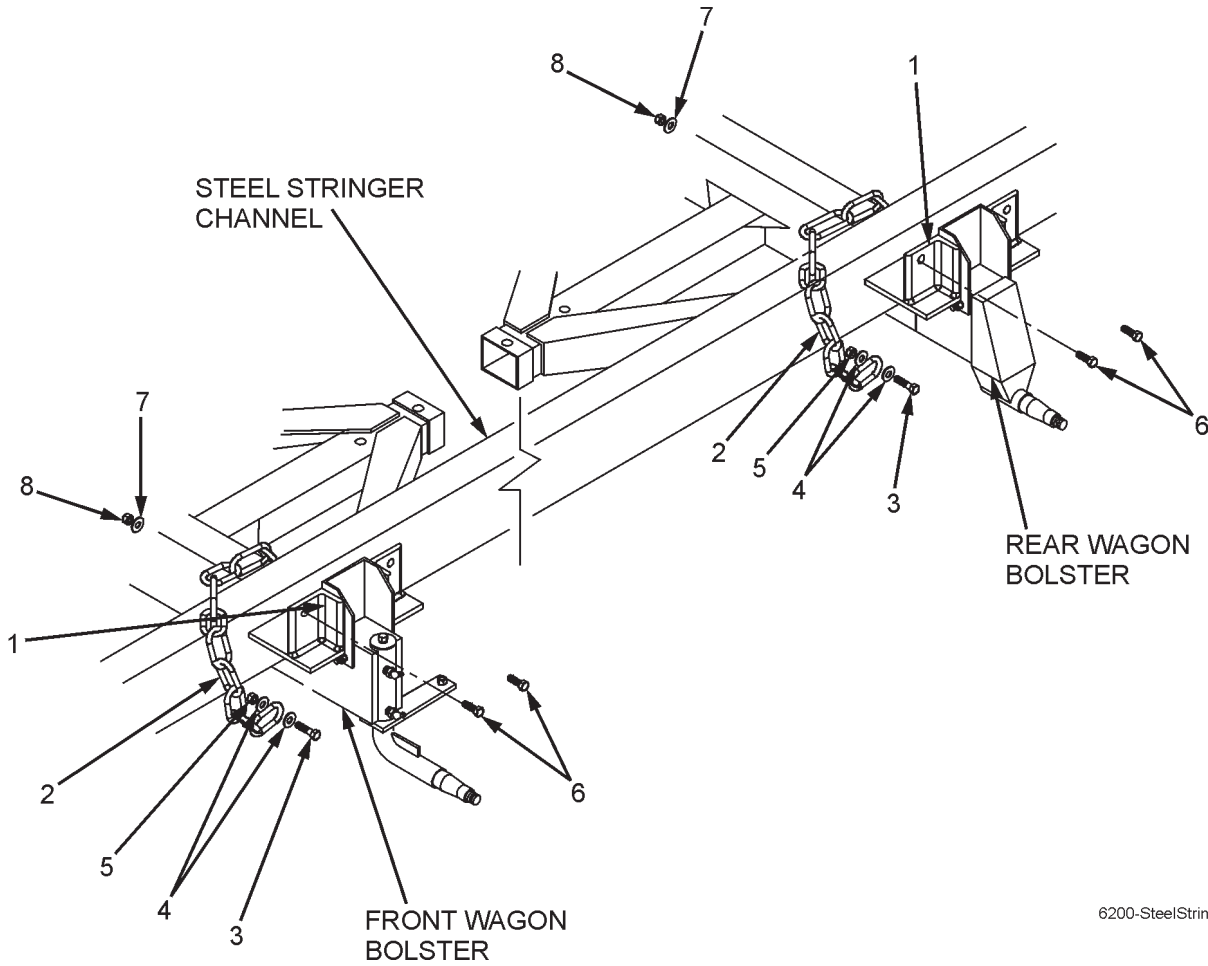
**#18-0017**  
**12R UNIVERSAL JOINT TELESCOPING ASSEMBLY W/GUARD**  
**2013 MODEL YEAR AND LATER**



3500-TSS-TelescopingAssembly.cdr

| KEY | PART NO.   | QTY | DESCRIPTION                                |
|-----|------------|-----|--|
|     | 18-0017    | 1   | Joint, 12R Universal PTO Assembly          |
| 1   | 18-0017-4  | 1   | Joint & Tube Half W/Guard (Implement Half) |
| 2   | 18-0017-9  | 2   | 12R Cross & Bearing Kit                    |
| 3   | 18-0017-6  | 1   | Yoke, Tube & Slip Sleeve                   |
| 4   | 18-0017-10 | 2   | Nylon Repair Kit                           |
| 6   | 18-0017-12 | 1   | Inner Guard W/Bearing & Retainer           |
| 7   | 18-0017-1  | 1   | Joint & Shaft Half W/Guard (Tractor Half)  |
| 8   | 18-0017-11 | 1   | Outer Guard W/Bearing & Retainer           |
| 9   | 18-0017-3  | 1   | Yoke & Shaft                               |
| 10  | 18-0017-7  | 1   | Spring - Lock Yoke Assembly                |
| 11  | 18-0005-16 | 1   | Spring - Lock Repair Kit                   |
| 12  | 18-0017-13 | 1   | Yoke, 1-1/4" Bore, 1/4" Kwy, W/RP Hole     |

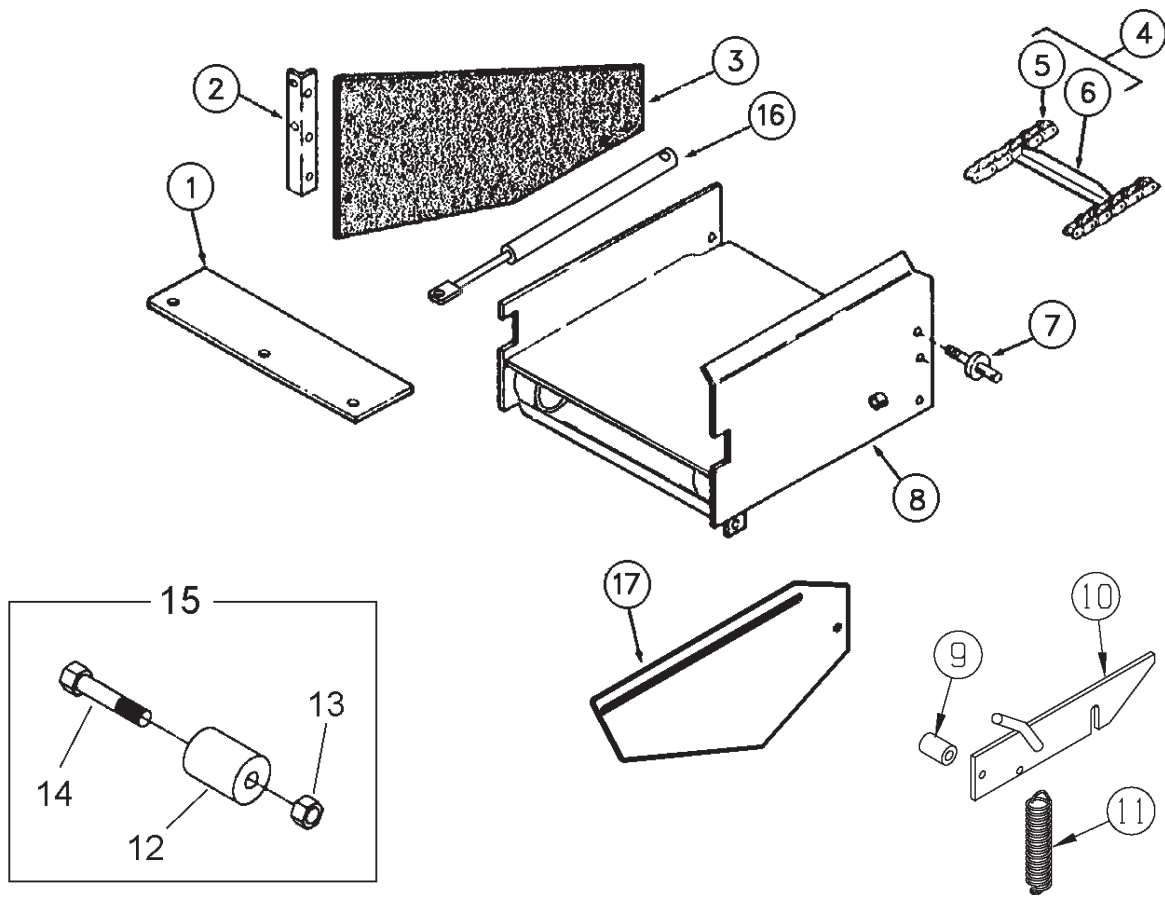
## STEEL STRINGER TIE DOWN KIT



6200-SteelStringerTieDownKit.cdr

| KEY | PART NO.       | QTY. | DESCRIPTION                                    |
|-----|----------------|------|--|
|     | 52-0003S       | 1    | Tie Down Kit (Steel Stringers)                 |
| 1   | 25-0084        | 4    | Bracket  |
| 2   | 52-0003-1      | 4    | 51" Standard Tie Down Chain                    |
|     | 75-0341-4-HD   | 4    | 61" Heavy Duty Tie Down Chain for Riser Option |
| 3   | 851-3816-1.5Z  | 4    | Bolt, Hex Machine-3/8x1-1/2                    |
| 4   | 805-0038-Z     | 8    | 3/8 Flat Washer                                |
| 5   | 815-3816-Z     | 4    | 3/8 Lock Nut                                   |
| 6   | 851-5013-1.5-Z | 8    | 1/2x1-1/2 Hex Machine Bolt                     |
| 7   | 805-0050-Z     | 8    | 1/2 Flat Washers                               |
| 8   | 815-5013-Z     | 8    | 1/2 Lock Nuts                                  |

**#52-0001TK TSS 12" OPTIONAL EXTENSION KIT**  
(Regular LH Unloading)  
**#52-0021 OPTIONAL HYDRAULIC LIFT PKG**  
(Not Shown)



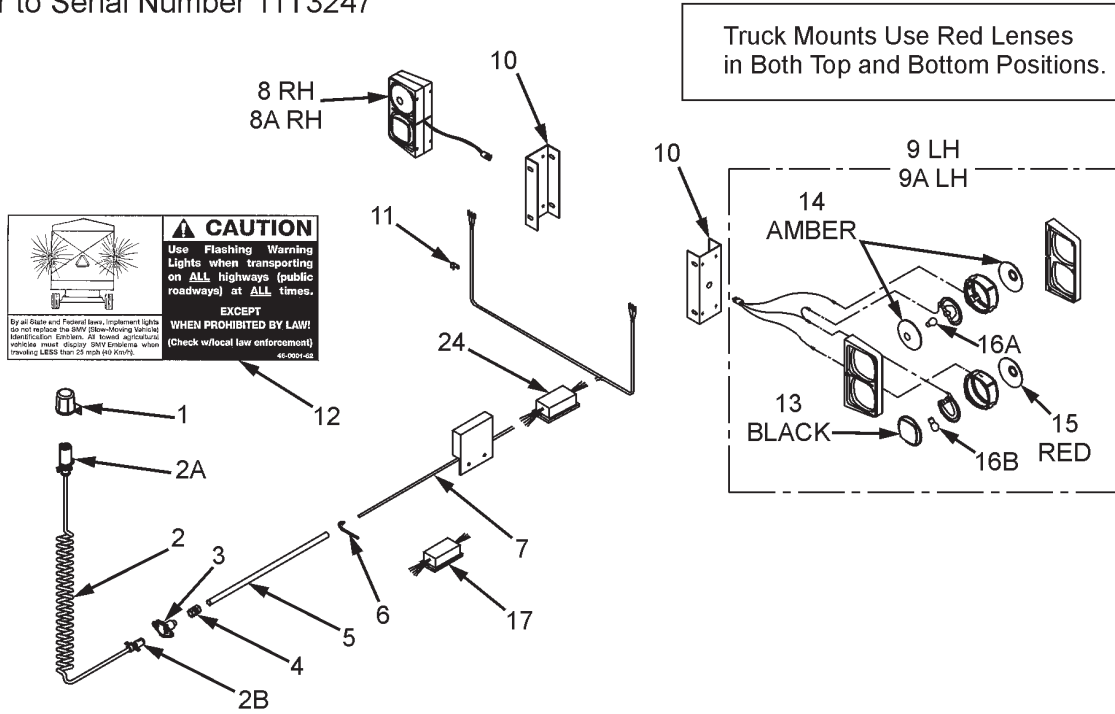
**#52-0001TK TSS 12" OPTIONAL EXTENSION KIT**  
**(Regular LH Unloading)**  
**#52-0021 OPTIONAL HYDRAULIC LIFT PKG**  
**(Not Shown)**

| KEY | PART NO.       | QTY | DESCRIPTION   |
|-----|----------------|-----|---|
|     | 52-0001-TK     | 1   | TSS Optional Extension Kit 12"                      |
| 1   | 24-0068        | 1   | Cross Apron Top Panel Shield                        |
| 2   | 25-0075        | 1   | Belting Shield Mount Angle                          |
| 3   | 49-0004        | 1   | Belting, Shield                                     |
| 4   | 11-0061-D      | 1   | Extension Section Cross Apron Pintle Chain Assembly |
| 5   | 11-0006-1      | 24  | Link, Pintel Chain Extension                        |
| 6   | 11-0006-2      | 2   | Chain Slat w/Attachments                            |
| 7   | 51-0001        | 1   | Handle Less Grip                                    |
|     | 51-0004        | 1   | Black Plastic Grip                                  |
| 8   | 45-0002        | 1   | Frame Extension 12"                                 |
|     | 45-0003-FB     | 1   | Frame Extension 24" W/Hydraulic Lift Shaft          |
| 9   | 45-0002-7      | 1   | Rod, Tubular Spacer                                 |
| 10  | 25-0076        | 1   | Bracket, Handle Catch W/Grip                        |
|     | 51-0006        | 1   | Black Plastic Grip                                  |
| 11  | 29-0005        | 1   | Spring  |
| 12  | 23-0064        | 2   | Chain Holdown Shaft                                 |
| 13  | 814-5013-Z     | 2   | 1/2-13 Indented Locknut                             |
| 14  | 851-5013-2.25Z | 2   | 1/2-13x2-1/4" M.B.                                  |
| 15  | 44-0051        | 2   | Extension Holdown Shaft Assy. w/Bolt                |
| 16  | 955-3703       | 1   | Gas Shock (2011 Model Year and Later)               |
| 17  | 39-0017-2      | 1   | Deflector (2011 Model Year and Later)               |

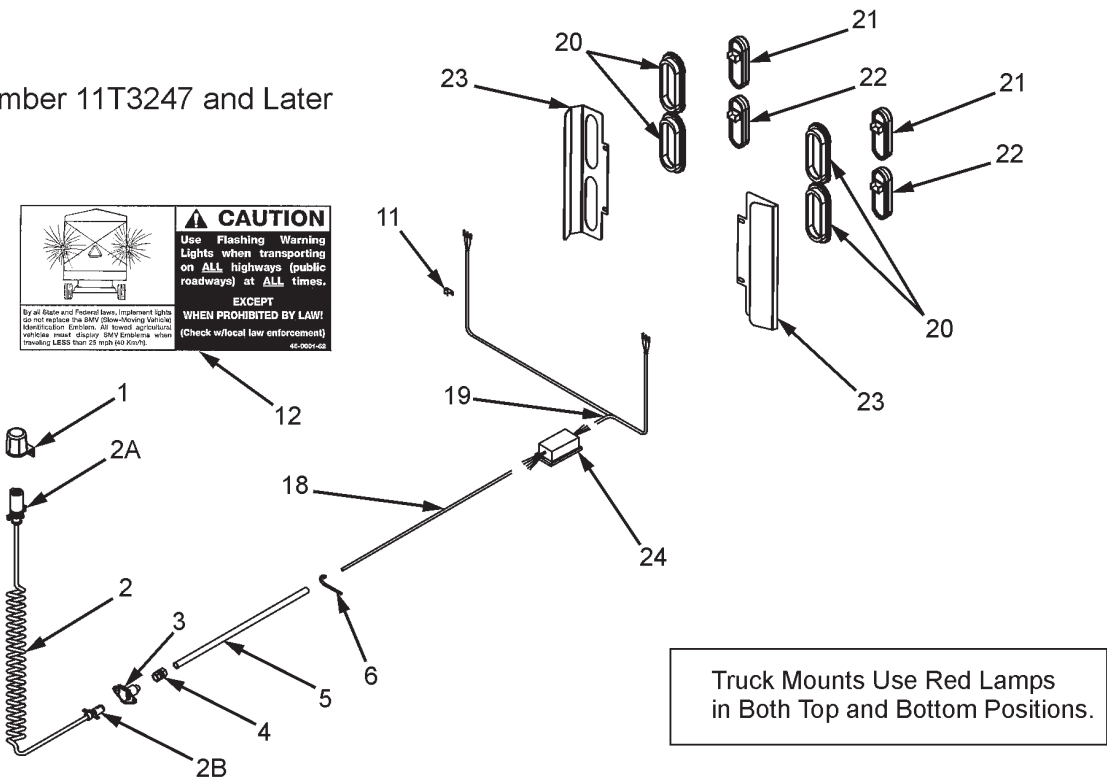
| <b>#52-0021 HYDRAULIC LIFT EXTENSION PARTS (Not Illustrated)</b> |      |                               |
|--|------|-------------------------------|
| PART NO.   | QTY. | DESCRIPTION                   |
| 55-0093  | 1    | 2X8" Hydraulic Cylinder       |
| 25-0235  | 1    | Upper Cylinder Mount Plate    |
| 955-0002   | 2    | 3/8x27" hydraulic Hose        |
| 55-0054  | 1    | 3/8x21" Hydraulic Pipe        |
| 55-0067  | 1    | 3/8x14" Hydraulic Pipe        |
| 955-3605   | 2    | 3/8x90 Degree Elbow           |
| 955-3609   | 4    | 3/8" NPT Coupler              |
| 955-0003   | 2    | 3/8x90 Degree Street Elbow    |
| 933-3602   | 1    | Hydraulic Pipe Bracket        |
| 25-0234  | 1    | Hydraulic Pipe Mount Bracket  |
| 55-0052  | 2    | 3/8x24" Hydraulic Pipe        |
| 29-0012  | 1    | Hydraulic Hose Support Spring |
| 55-0033-S  | 1    | 1/4" Twin hose Clamp          |
| 55-0051  | 2    | 1/4x130" Hydraulic Hose       |
| 811-3118-2Z  | 1    | 5/16-18x2" Eyebolt            |
| 823-.18-1.25Z  | 1    | 3/16x1-1/4" Cotter Pin        |

# HIGHWAY LIGHT PACKAGE

Prior to Serial Number 11T3247



Serial Number 11T3247 and Later

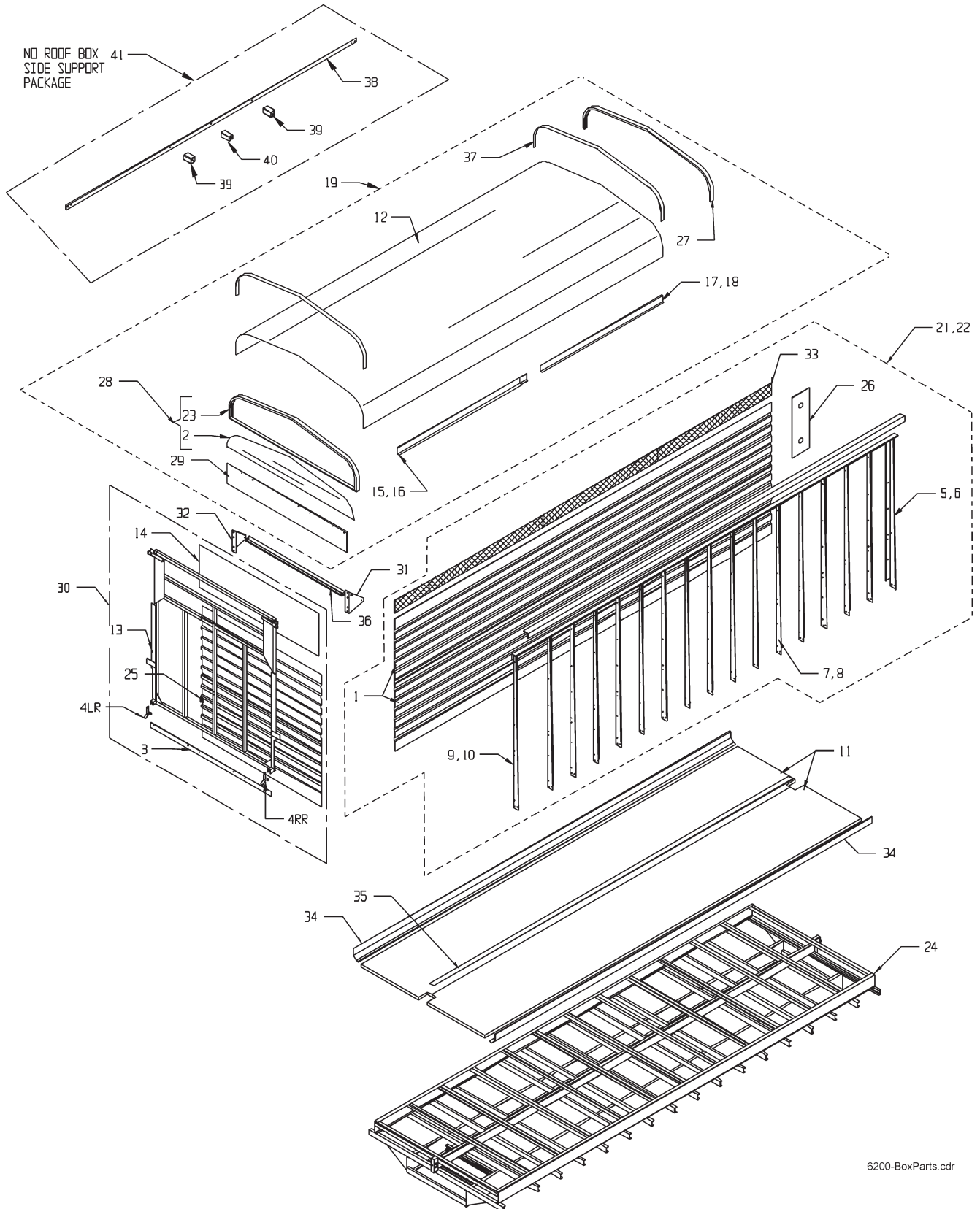


## HIGHWAY LIGHT PACKAGE

| KEY | PART NO.    | QTY | DESCRIPTION  |
|-----|-------------|-----|--|
| 1   | 56-0009     | 1   | 7-Way "Stor-A-Way"   |
| 2   | 56-0005     | 1   | Coil Cable Assembly  |
| 2A  | 56-0005-4   | 1   | 7-Contact Plug End with Spring                               |
| 2B  | 56-0005-1   | 1   | 4 Pole Plug  |
| 3   | 56-0004     | 1   | #1232 4-way Socket (4 pin)                                   |
| 4   | 56-0007     | 1   | 1/2" EMT Coupler #260-D                                      |
| 5   | 56-0006     | 1   | Light Wire Tube Deburred, 1/2" Conduit 22" Long              |
| 6   | 32-0026     | 8   | 14" Nylon Tie Strap  |
| 7   | 56-0032     | 1   | Ag Light Harness w/Module                                    |
| 8   | 56-0031     | 1   | Dual Light RH w/4-Plug                                       |
| 8A  | 56-0031-TR  | 1   | Truck Mount Dual Light RH w/4-Prong                          |
| 9   | 56-0030     | 1   | Dual Light LH w/4-Plug                                       |
| 9A  | 56-0030-TR  | 1   | Truck Mount Dual Light LH w/4-Prong                          |
| 10  | 25-0255     | 2   | Light Mount Bracket (Universal)                              |
| 11  | 32-0024     | 4   | 3/8" Plated Loom Clamp                                       |
| 12  | 46-0001-62  | 1   | Caution Tail Light Decal                                     |
| 13  | 56-0001-3   | 2   | Bezel Blank, Black (Fit Inside Housing)(Prior to SN 09T3220) |
|     | 56-0030-3   | 2   | Bezel Blank, Black (Fit Over Housing)(SN 09T3220 & Later)    |
| 14  | 56-0001-1   | 4   | Amber Lens (Fit Inside Housing)(Prior to SN 09T3220)         |
|     | 56-0030-1   | 4   | Amber Lens (Fit Over Housing)(SN 09T3220 & Later)            |
| 15  | 56-0001-2   | 2   | Red Lens (Fit Inside Housing)(Prior to SN 09T3220)           |
|     | 56-0030-2   | 2   | Red Lens (Fit Over Housing)(SN 09T3220 & Later)              |
| 16A | 56-0001-5   | 1   | #1156 Single Filament Bulb                                   |
| 16B | 56-0001-4   | 1   | #1157 Dual Filament Bulb                                     |
| 17  | 56-0028     | 1   | Tail Light Converter (Truck Mount Only)                      |
| 18  | 56-0037     | AR  | 4 Conductor Trailer Cable                                    |
| 19  | 56-0083     | 1   | LED Light Y-Harness Less Module Plugs                        |
| 20  | 56-0065     | 4   | 6" Oval Grommet  |
| 21  | 56-0064     | 2   | 6" Oval Amber LED Light                                      |
| 22  | 56-0063     | 2/4 | 6" Oval Red LED Light  |
| 23  | 25-0259     | 2   | LED Light Bracket  |
|     | 25-0259-TRL | 1   | Truck Mount Left Hand LED Light Mount Bracket                |
|     | 25-0259-TRR | 1   | Truck Mount Right Hand LED Light Mount Bracket               |
| 24  | 56-0032-1   | 1   | Ag Module w/Connectors (Use w/Incandescent Light Harness)    |
|     | 56-0084     | 1   | LED Ag Module w/Connectors (Use w/LED Light Harness)         |

# 6200 SERIES BOX PARTS

## 1 of 2



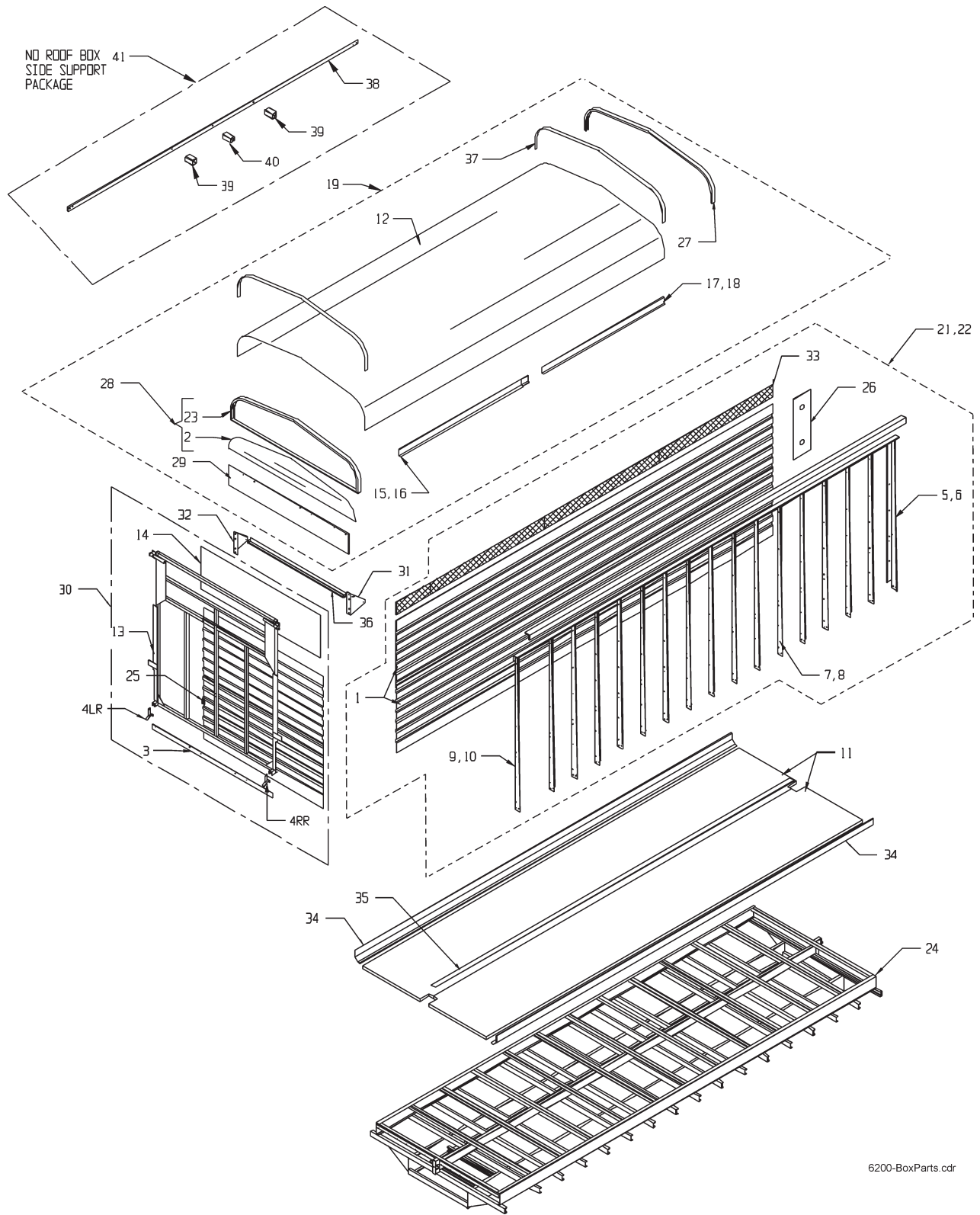
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## 6200 SERIES BOX PARTS

1 of 2

| KEY         | PART NO.  | DESCRIPTION   |
|-------------|---|---|
| 1           | 761II-40.75-20                                    | 20' Side Panel  |
|             | 761II-40.75-22                                    | 22' Side Panel  |
|             | 761II-40.75-24                                    | 24' Side Panel  |
| 2           | 100-9990-37-3                                     | Rear Roof Panel Painted, 13 x 86"                                   |
| 3           | 49-0022   | Bottom Back Gate Belting  |
| 4RR         | 100-9992-1-7                                      | Right Rear Back Gate Latch Catch                                    |
| 4LR         | 100-9992-1-8                                      | Left Rear Back Gate Latch Catch                                     |
| 5           | 100-9990-8-2-12                                   | Front Right/2-Way Left Rear Upright 10GA.X94-1/2" (Illustrated)     |
| 6           | 100-9990-8-1-12                                   | Front Left/2-Way Right Rear Upright 10GA.X94-1/2" (Not Illustrated) |
| 7           | 100-9990-8-6-12                                   | Center Right Upright 10GA. X 94-1/2" (Illustrated)                  |
| 8           | 100-9990-8-5-12                                   | Center Left Upright 10GA. X 94-1/2" (Not Illustrated)               |
| 9           | 100-9990-8-1-12                                   | Front Left/2-Way Right Rear Upright 10GA.X94-1/2" (Illustrated)     |
| 10          | 100-9990-8-2-12                                   | Front Right/2-Way Left Rear Upright 10GA.X94-1/2" (Not Illustrated) |
| 11          | 709-48-254.5                                      | Floor Panel 20' (Superslick) (2-Required)                           |
|             | 709-48-275.5                                      | Floor Panel 22' (Superslick) (2-Required)                           |
|             | 709-48-302.5                                      | Floor Panel 24' (Superslick) (2-Required)                           |
| 12          | 100-9990-51-1                                     | Roof Panel Painted 21'-3" (6220)                                    |
|             | 100-9990-54-1                                     | Roof Panel Painted 23'-3" (6222)                                    |
| 13          | 100-7040  | 2-Way Back Gate-Frame Only-Welded Assy.                             |
| 14          | 100-9990-34-6                                     | Filler Panel, Back Door   |
| 15          | 100-9990-70                                       | R. Rear Roof Angle (Illustrated)(6220/6222)                         |
| 16          | 100-9990-69                                       | L. Rear Roof Angle (Not Illustrated)(6220/6222)                     |
| 17          | 100-9990-61                                       | R. Front Roof Angle (Illustrated)(6220)                             |
|             | 100-9990-49-2                                     | R. Front Roof Angle (Illustrated)(6222)                             |
| 18          | 100-9990-60                                       | L. Front Roof Angle (Not Illustrated)(6220)                         |
|             | 100-9990-49-1                                     | L. Front Roof Angle (Not Illustrated)(6222)                         |
| 19          | 100-9990-51                                       | 6220, Roof Assy. Complete   |
|             | 100-9990-49                                       | 6222, Roof Assy. Complete   |
| 20          | 100-9990-14-3                                     | Roof Guard Strap - Rear   |
| 21          | 100-7022  | Right Side Complete 6220 (Illustrated)                              |
|             | 100-7022-TR                                       | Right Side Complete 6220 (Illustrated)(No Roof)                     |
|             | 100-7012  | Right Side Frame Only 6220 (Illustrated)                            |
|             | 100-7012-TR                                       | Right Side Frame Only 6220 (Illustrated)(No Roof)                   |
|             | 100-7020  | Right Side Complete 6222 (Illustrated)                              |
|             | 100-7020-TR                                       | Right Side Complete 6222 (Illustrated)(No Roof)                     |
|             | 100-7010  | Right Side Frame Only 6222 (Illustrated)                            |
|             | 100-7010-TR                                       | Right Side Frame Only 6222 (Illustrated)(No Roof)                   |
|             | 100-7024-TR                                       | Right Side Complete 6224 (Illustrated)(No Roof)                     |
| 100-7014-TR | Right Side Frame Only 6224 (Illustrated)(No Roof) |   |

# 6200 SERIES BOX PARTS 2 of 2



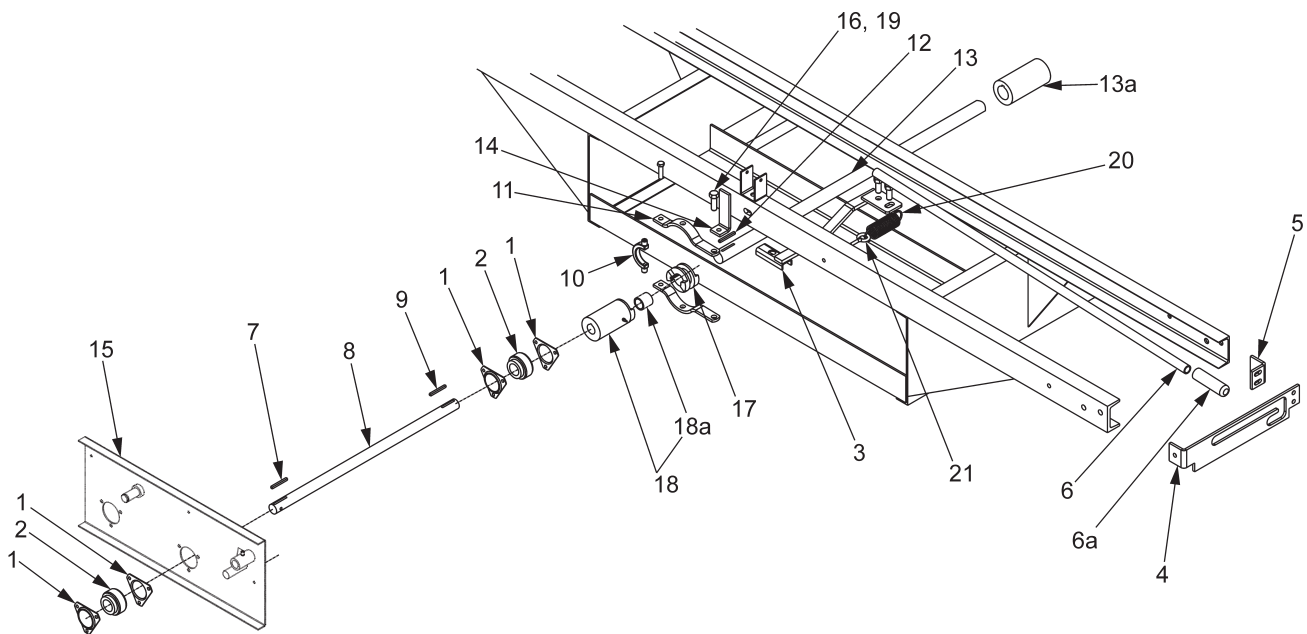
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## 6200 SERIES BOX PARTS

### 2 of 2

| KEY | PART NO.         | DESCRIPTION  |
|-----|------------------|--|
| 22  | 100-7023         | Left Side Complete 6220 (Not Illustrated)              |
|     | 100-7023-TR      | Left Side Complete 6220 (Not Illustrated)(No Roof)     |
|     | 100-7013         | Left Side Frame Only 6220 (Not Illustrated)            |
|     | 100-7013-TR      | Left Side Frame Only 6220 (Not Illustrated)(No Roof)   |
|     | 100-7021         | Left Side Complete 6222 (Not Illustrated)              |
|     | 100-7021-TR      | Left Side Complete 6222 (Not Illustrated)(No Roof)     |
|     | 100-7011         | Left Side Frame Only 6222 (Not Illustrated)            |
|     | 100-7011-TR      | Left Side Frame Only 6222 (Not Illustrated)(No Roof)   |
|     | 100-7025-TR      | Left Side Complete 6224 (Not Illustrated)(No Roof)     |
|     | 100-7015-TR      | Left Side Frame Only 6224 (Not Illustrated)(No Roof)   |
| 23  | 100-9990-37-1    | Rear Roof Bow & Angle Welded Assy.-Black               |
| 24  | 100-7001         | Bottom Frame Complete 20' (10" Stringers)              |
|     | 100-7001-TRUCK   | Bottom Frame Complete 20' (6" Stringers)               |
|     | 100-7000         | Bottom Frame Complete 22' (10" Stringers)              |
|     | 100-7000-TRUCK   | Bottom Frame Complete 22' (6" Stringers)               |
|     | 100-7002-TRUCK   | Bottom Frame Complete 24' (6" Stringers)               |
| 25  | 33-1002          | SMV Sign Bracket Only                                  |
| 26  | 100-9990-200-1-1 | Auger Bracket Less Tightener                           |
| 27  | 100-9990-15-1    | TSS Roof Bow   |
| 28  | 100-9990-37      | Rear Roof Bow Assy. Complete                           |
| 29  | 49-0019          | Top Back Gate Belting                                  |
| 30  | 100-7030         | 6200 Back Gate Assy. Complete W/Latches                |
| 31  | 100-9990-115     | Right Rear Gate Pivot Support Gusset                   |
| 32  | 100-9990-116     | Left Rear Gate Pivot Support Gusset                    |
| 33  | 100-9990-8-15    | Side Screen 7-1/2x82" Painted                          |
|     | 100-9990-8-16    | Side Screen 7-1/2x24" Painted                          |
|     | 100-9990-8-17    | Side Screen 7-1/2x80" Painted                          |
|     | 100-9990-8-18    | Side Screen 7-1/2x48" Painted                          |
| 34  | 25-6005-1        | Floor Cap 72"  |
|     | 25-8022-1        | Floor Cap 96"  |
|     | 25-6005-2        | Floor Cap 48"  |
|     | 25-6006-1        | Floor Cap Splice Piece                                 |
|     | 25-8023-1        | Floor End Cap  |
| 35  | 100-7000-24      | 240" Center Superslick Channel-(Common on all lengths) |
|     | 100-7002-2       | 6224 Center Superslick Channel 55-3/4"                 |
|     | 100-7000-25      | 6222 Center Superslick Channel 31-3/4"                 |
|     | 100-7001-5       | 6220 Center Superslick Channel 7-3/4"                  |
| 36  | 100-9990-87      | No Roof Angle  |
| 37  | 100-9990-14-4    | Front Roof Protector                                   |
| 38  | 100-9990-8-11    | 16' & 18' BOX, SIDE SUPPORT STRAP 171"                 |
|     | 100-9990-52-2    | 20' & 22' BOX, SIDE SUPPORT STRAP 219"                 |
| 39  | 100-9990-52-4    | SIDE SUPPORT END TUBE                                  |
| 40  | 100-9990-52-3    | SIDE SUPPORT CENTER TUBE                               |
| 41  | TSS-SS-16-PKG    | 16' & 18' SIDE SUPPORT PACKAGE                         |
|     | TSS-SS-20-PKG    | 20' & 22' SIDE SUPPORT PACKAGE                         |

# PTO REAR UNLOAD TRUCK MOUNT

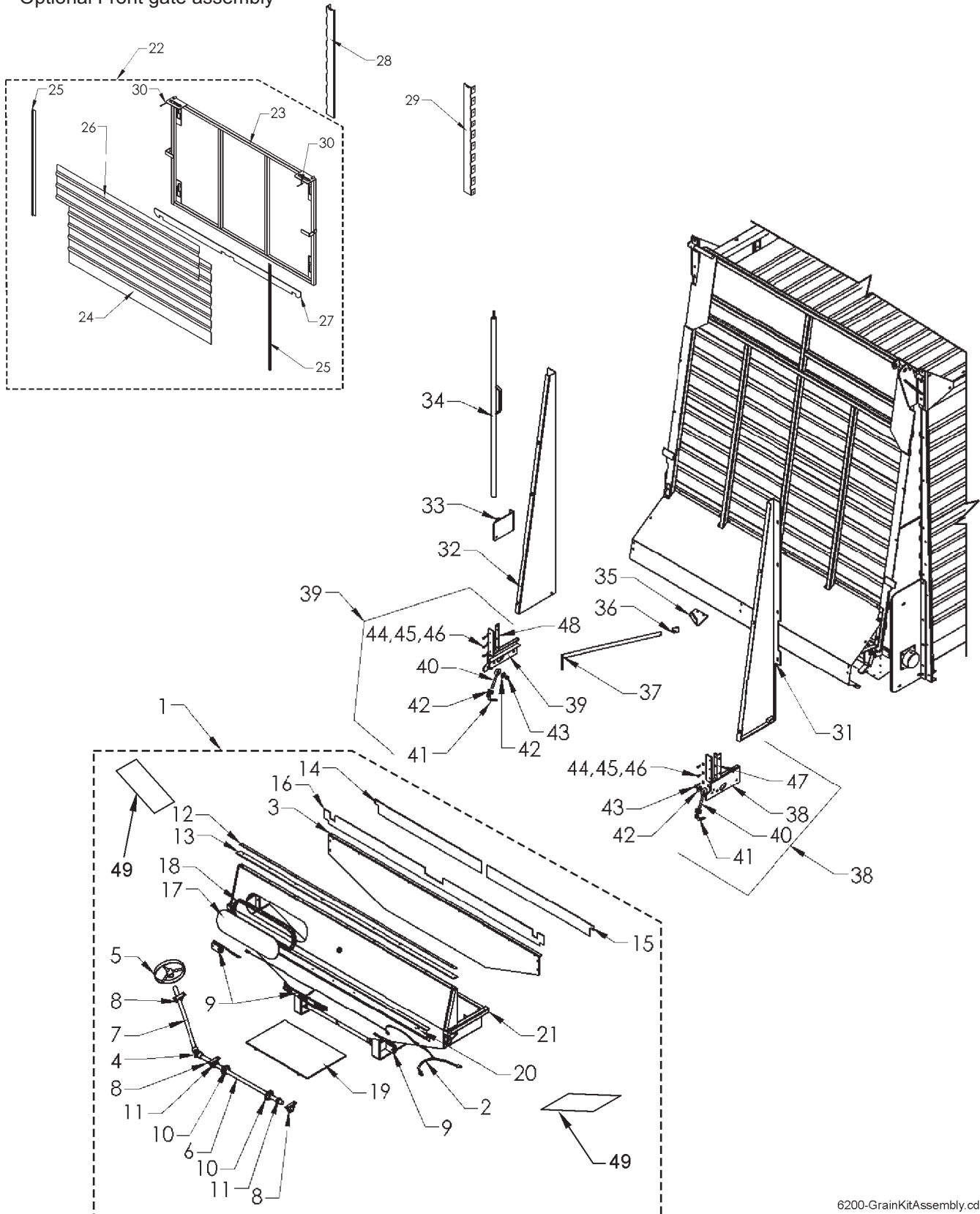


## PTO REAR UNLOAD TRUCK MOUNT

| KEY | PART NO.      | DESCRIPTION                                |
|-----|---------------|--|
| 1   | 14-0002-2     | Flange, 3-hole, 1-1/4"                     |
| 2   | 14-0002-3     | Bearing, 1-1/4" w/collar                   |
| 3   | 25-0134       | Linkage Arm Welded Assy.                   |
| 4   | 25-0135-1     | Side Shift Plate                           |
| 5   | 25-0135-3     | Side Shift Plate                           |
| 6   | 25-0136       | Pipe Handle w/grip                         |
| 6a  | 51-0004       | Rubber Grip Only                           |
| 7   | 35-0021       | 1/4x1/4x1-3/4" Key                         |
| 8   | 23-0082       | Unit Center Shaft                          |
| 9   | 35-0016       | 1/4x1/4x2-1/4" Key                         |
| 10  | 21-0001       | Brass Shifter Collar w/zerk                |
| 11  | 17-0001       | Clutch Shifter Yoke                        |
| 12  | 35-0023       | 1/4x2" Key w/rounded Ends                  |
| 13  | 23-0104       | 6220/6224 Drive Shaft 1-1/4x214"           |
|     | 23-0105       | 6222 Drive Shaft 1-1/4x238"                |
|     | 23-0106       | 6224 Main Drive Shaft Extension 47-7/8"    |
| 13a | 37-0007       | 1-1/4" Bore Shaft Coupler (6224 Only)      |
| 14  | 100-7000-40   | Yoke Pivot Bracket                         |
| 15  | 25-0267       | Clutch Plate Weldment                      |
| 16  | 815-3816-Z    | 3/8-16 Nylon Insert Locknut                |
| 17  | 15-0003       | Jaw Clutch 1-1/4" Bore w/1/4" Keyway       |
| 18  | 15-0005       | PTO Rear Clutch Coupler                    |
| 18a | 13-0014       | Bronze Bushing 1-1/4IDx1-1/2ODx1-1/2" Long |
| 19  | 851-3816-1.5Z | 3/8-16x1-1/2" Gr. 5 Machine Bolt           |
| 20  | 929-0003      | Spring                                     |
| 21  | 933-3804      | 5/16-18x4" Eyebolt                         |

# GRAIN KIT ASSEMBLY

Optional Front gate assembly



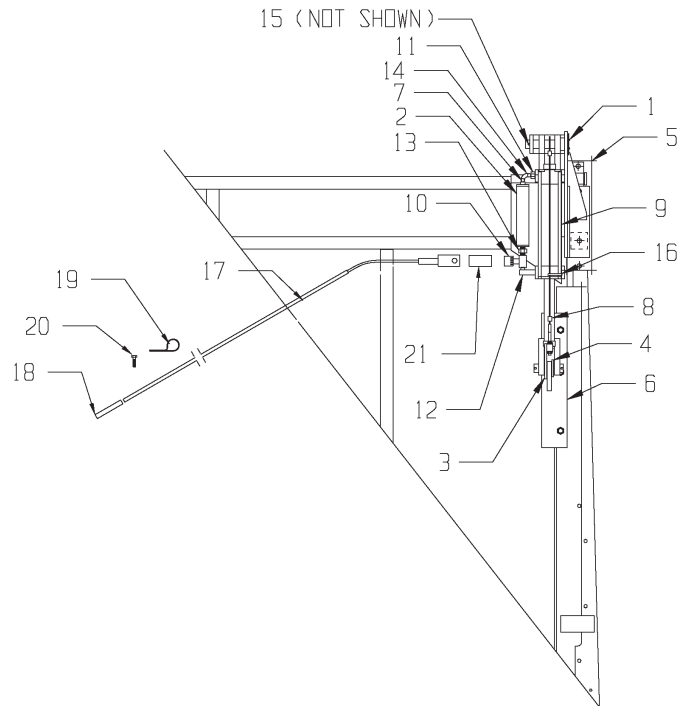
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## GRAIN KIT ASSEMBLY

| KEY | PART NO.       | DESCRIPTION  | QTY. |
|-----|----------------|--|------|
| 1   | 25-6053        | 6200 Grain Kit Body Assy. (INC 1-21)               | 1    |
| 2   | 56-0051        | Harness Jumper                                     | 1    |
| 3   | 25-6063-1-1    | 6200 Grain Kit Divider                             | 1    |
| 4   | 15-0006        | Universal Joint Assy.                              | 1    |
| 5   | 25-8062        | Door Handle Assy.                                  | 1    |
| 6   | 23-0099        | 32" Grain Kit Gate Shaft                           | 1    |
| 7   | 23-0102        | 24" Grain Kit Gate Shaft                           | 1    |
| 8   | 124            | 1" Pillow Block Bearing                            | 3    |
| 9   | 56-0050        | Grain Kit Harness & Lamp Kit                       | 1    |
|     | 56-0050-LED    | LED Grain Kit Harness & Lamp Kit                   | 1    |
|     | 56-0050-1      | Center Lamp Bar Only                               | 1    |
|     | 56-0050-1-LED  | LED Center Lamp Bar Only                           | 1    |
|     | 56-0050-2      | Left Rear Lamp Only                                | 1    |
|     | 56-0050-2-LED  | LED Left/Right Rear Lamp Only                      | 2    |
|     | 56-0050-3      | Harness Only                                       | 1    |
|     | 56-0050-3-LED  | LED Harness Only                                   | 1    |
| 10  | 10-0001        | 50B13 1" Bore Sprocket                             | 2    |
| 11  | 323            | 1" ID Lock Collar                                  | 2    |
| 12  | 25-6053-2-1    | Top Belting Strip                                  | 1    |
| 13  | 49-0043        | Rear Seal-Gate to Hopper Seal                      | 1    |
| 14  | 49-0045        | Left Hand Front Belting Seal                       | 1    |
| 15  | 49-0049        | Right Hand Front Belting Seal                      | 1    |
| 16  | 49-0046        | Divider Belting                                    | 1    |
| 17  | 49-0097        | Plexiglass Window                                  | 1    |
| 18  | 33-0049        | Plexiglass Window Seal Weather Strip               | 1    |
| 19  | 25-8061        | Gate Weldment                                      | 1    |
| 20  | 25-6053-11     | Grain Kit Light Mount Bracket                      | 1    |
| 21  | 25-6053-1      | Grain Kit Welded Assy. Main Body Only              | 1    |
| 22  | 25-6050        | False Front Gate Assy. Complete                    | 1    |
| 23  | 25-6050-1      | False Front Gate Welded Frame Only                 | 1    |
| 24  | 7611I-40.75-84 | Lower Gate Panel                                   | 1    |
| 25  | 25-6050-4      | Front Gate Panel End Caps                          | 2    |
| 26  | 25-6050-2      | Upper Gate Panel 17-1/2" Wide                      | 1    |
| 27  | 25-6050-3      | Lower Gate Belting Strip                           | 1    |
| 28  | 25-6051-1      | Left False Front Gate Mount Bracket                | 1    |
| 29  | 25-6052-1      | Right False Front Gate Mount Bracket               | 1    |
| 30  | 32-0029        | 1/4x2-3/4" Snap Style Ring                         | 2    |
| 31  | 25-6056        | Grain Kit Right Side Gusset                        | 1    |
| 32  | 25-6057        | Grain Kit Left Side Gusset                         | 1    |
| 33  | 25-6061        | Door Stop Mount Bracket for Pipe                   | 1    |
| 34  | 25-6059        | Grian Kit Door Stop Pipe (Installation Use Only)   | 1    |
| 35  | 25-6060-1      | Flow Control Bracket                               | 1    |
| 36  | 25-6062-1-1    | Flow Control Pipe Coupler                          | 1    |
| 37  | 25-6058-1      | Flow Control Extension Pipe                        | 1    |
| 38  | 25-6055-2      | Grain Kit Right Receiver Mount Brk. Assy. Complete | 1    |
| 39  | 25-6054-4      | Grain Kit Left Receiver Mount Brk. Assy. Complete  | 1    |
| 38A | 25-6055        | Right Mount Plate Welded Assy. Only                | 1    |
| 39A | 25-6054        | Left Mount Plate Welded Assy. Only                 | 1    |
| 40  | 811-5013-4Z    | 1/2-13x4" Eyebolt                                  | 1    |
| 41  | 33-0028        | 1/2-13 Handle Nut                                  | 1    |
| 42  | 805-0050-Z     | 1/2" Flat Washer Zinc                              | 8    |
| 43  | 814-5013-Z     | 1/2-13 Center Locknut                              | 2    |
| 44  | 805-0025-Z     | 1/4" Flat Washer Zinc                              | 6    |
| 45  | 851-2520-.75Z  | 1/4-20x3/4" Machine Bolt                           | 6    |
| 46  | 810-2520-Z     | 1/4-20 Spin Locknut                                | 3    |
| 47  | 49-0048        | Right Hand Receiver Mount Belt Seal                | 1    |
| 48  | 49-0044        | Left Hand Receiver Mount Belt Seal                 | 1    |
| 49  | 49-0127        | Poly Floor Piece                                   | 2    |

# GATE DELAY 6200 Box

Prior to serial #10T3211



**OIL CAPACITY**  
WITH 6" OF RAM ROD SHOWING FILL  
TANK TO TOP WITH LITE HYDRAULIC OIL.

## **GATE DELAY INSTRUCTIONS & ADJUSTMENTS**

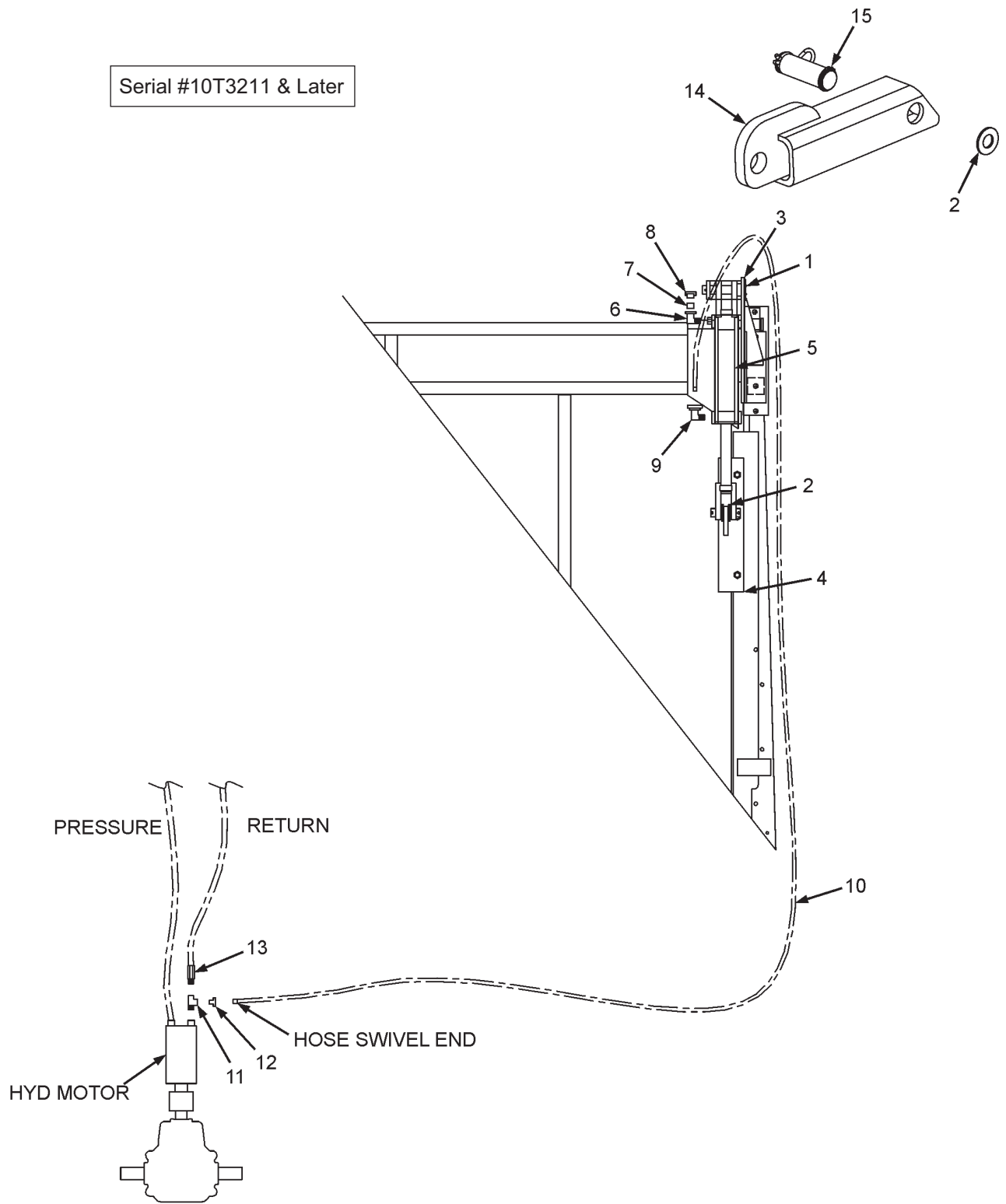
The purpose of the gate delay system is to hold the rear swinging gate in the open position until the apron has cleaned all of the forage out of the box. By adjusting the flow control the speed in which the gate closes can be regulated. When the flow control is properly adjusted the gate will slowly 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 6200 Box

| KEY | PART NO.    | DESCRIPTION                           |
|-----|-------------|---------------------------------------|
|     | 4200-GATE   | Rear Gate Delay Kit                   |
|     | 6200-GDS-GC | Ground Control Kit                    |
| 1   | 25-8092-1   | Gate Regulator Top Shaft              |
| 2   | 25-8095     | Oil Reservoir Assembly                |
| 3   | 25-8096     | Gate Release Trip Arm Assembly        |
| 4   | 25-8097-1   | Lower Sleeve Spacer                   |
| 5   | 25-8099     | Top Cylinder Bracket                  |
| 6   | 25-8100     | Lower Mount Plate Welded Assembly     |
| 7   | 30-0015     | 1/4" Fitting x 90 Degree Elbow        |
| 8   | 25-8098     | Cable Eyebolt Assembly                |
| 9   | 55-0093     | Hydraulic Cylinder                    |
| 10  | 55-0094     | Flow Control                          |
| 11  | 55-0095     | 1/8" to 3/8" NPT Reducer              |
| 12  | 55-0096     | 3/8" NPTF x 90 Degree Male Pipe Elbow |
| 13  | 55-0097     | 3/8" to 3/8" Nipple                   |
| 14  | 735-.25CT   | 1/4" Copper Tubing (.25 Ft. Req)      |
| 15  | 823-19-2    | 3/16 x 2" Cotter Pin                  |
| 16  | 952-0001-7  | Nylon Tie Strap                       |
| 17  | 25-8101     | Ground Control Rod Assy. W/Grip       |
| 18  | 51-0007     | Handle Grip                           |
| 19  | 933-3804    | 5/16 x 4" Eyebolt                     |
| 20  | 825-25-1Z   | 1/4x1" Self Tapping Screw             |
| 21  | 25-8102-2   | Drag Sleeve (Hose)                    |

# RETURN LINE GATE DELAY

Serial #10T3211 & Later



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## RETURN LINE GATE DELAY

| KEY | PART NO.          | DESCRIPTION   |
|-----|-------------------|---|
|     | 6200-GDS-RL       | Return Line Gate Delay Closing Option                           |
|     | 6200-GDS-RL-KIT   | Update Package to Switch from Ground Control Rod to Return Line |
| 1   | 25-8092-1         | Gate Regulator Top Shaft  |
| 2   | 25-8097-1         | Lower Sleeve Spacer   |
| 3   | 25-8099           | Top Cylinder Bracket  |
| 4   | 25-8112           | Lower Mount Plate Welded Assembly                               |
| 5   | 55-0093           | Hydraulic Cylinder  |
| 6   | 55-0195           | 3/8 Male x 1/4" Female Street Elbow                             |
| 7   | 55-0108           | 1/4 x 1/8" Male to Female Bushing                               |
| 8   | 55-0107           | 1/8" NPT Vent   |
| 9   | 55-0196           | 3/8M x 1/4" Swivel Female x 90 Degree Elbow                     |
| 10  | 55-0202           | 1/4x228" Hose   |
| 11  | 55-0201           | 3/4" Tee Fitting  |
| 12  | 55-0174           | 3/4 x 1/4" Bushing  |
| 13  | 55-0007-B-RF-GDRL | Reverse Flow Check Valve w/Back Pressure Spring                 |
| 14  | 25-8111           | Top Pivot Weldment (Truck Mount Models Only)                    |
| 15  | 955-3802-10       | Cylinder Pivot Pins W/Clips                                     |
| NS  | 32-0033           | 1/2" Loom Clamp Vinyl Coated                                    |
| NS  | 810-2520-Z        | 1/4-20 Spin Locknuts  |
| NS  | 851-2520-.75Z     | 1/4-20 x 3/4" M.B. Zinc   |

# MEYER FRONT & REAR FORAGE BOXES

## “TROUBLE SHOOTING”

|  | SYMPTOM   | PROBLEM  | SOLUTION  |
|--|---|--|---|
| <b>AUGERS</b>                          | Augers shake or chatter.                            | Stiff roller chains - dry.<br>Loose roller chains.<br>Worn sprockets/chains.<br>Bad roller bearings. | Lubricate roller chains.<br>Tighten roller chains.<br>Replace sprockets/chains.<br>Replace roller bearings. |
|  | Under load, augers do not start in 1st or 2nd notch | Variable speed not adjusted.   | Adjust variable speed.  |
| <b>BELT DRIVE<br/>“VARIABLE SPEED”</b> | Belt slippage.                                      | Sheaves greasy or wet.<br>Use of “HI” Range w/full load.   | Clean sheaves.<br>Use “LO” Range w/full loads.  |
|  | Belt wear/breakage.                                 | Variable speed not adjusted.<br>PTO starting w/belt engaged.   | Adjust variable speed.<br>Start PTO w/belt in “Neutral.”  |
|  | Sheave pin breakage.                                | Incorrect operating procedures.<br>PTO starting w/belt engaged.                                      | Follow <u>correct</u> operating procedures.<br>Start PTO w/belt in “Neutral.”                               |
| <b>CROSS APRON</b>                     | Material build-up under chain.                      | Loose cross apron.   | Tighten cross apron.  |
|  | Bent apron slats.                                   | Dirty cross apron, too much carry back.  | Clean apron and return area.  |
|  | Broken pintle chain.                                | Build-up in clean-out panel.   | Clean out “Clean-Out” panel.  |
| <b>GEAR BOXES</b>                      | Clunking sounds.                                    | Gears/bearings wearing — low oil   | Replace gears/bearings — fill with oil  |
|  | Excessive gear wear.                                | Full load “HI” Range unloading.<br>Wrong gear lube oil.  | Start full loads in “LO” Range.<br>See Lubrication Section for Proper Oil.                                  |
|  | Broken gears.                                       | High speed start-up/no oil.<br>Worn out gears.   | Slow start-up/fill with oil.<br>Replace gears.  |
| <b>“HI-LO” RANGE</b>                   | Hard to shift lever.                                | Unit not running.  | Run unit with variable speed lever engaged.   |
|  | “HI-LO” is not engaging.                            | Worn brass shifting collar.  | Replace brass shifting collar.  |
|  | Slipping out of range.                              | Excessive clutch wear.   | Adjust range control linkage.<br>Flip over or replace clutches.   |
| <b>MAIN APRON</b>                      | Jumping links.                                      | Loose main apron.  | Tighten main apron.   |
|  | Bent apron slats.                                   | Worn/broken chain.   | Clean/tighten/replace apron.  |
|  | Broken pintle chain.                                | Front unit sagging.  | Lift unit and replace front cross channel.  |
| <b>PTO SHAFT</b>                       | Whips/shakes.                                       | Over extended or bent PTO.   | Shorten wagon gear hitch length.<br>Straighten/replace PTO.   |
|  | Vibrates up and down.                               | Forage box center shaft bent.  | Replace center shaft.   |
|  | Worn universal joints.                              | Lack of lubrication/used.  | Lubricate joints daily/replace.   |
| <b>ROLLER CHAINS<br/>AND SPROCKETS</b> | Excessive chain wear.                               | Lack of lubrication.<br>Out of alignment/loose.  | Lubricate/align/tighten.  |
|  | Roller chain breakage.                              | Loose roller chain.<br>Worn sprockets.   | Tighten roller chains.<br>Replace sprockets.  |
|  | Sprocket teeth tipped over.                         | Worn roller chain.<br>Bad roller bearings.   | Replace roller chain.<br>Replace bearings.  |
| <b>SAFETY CLUTCH</b>                   | Does not trip.                                      | Bad or damaged clutch.<br>Safety cable disconnected.<br>Safety cable broken.                         | Replace safety clutch.<br>Re-fasten safety cable.<br>Replace safety cable.                                  |

# MEYER FRONT & REAR UNLOAD FORAGE BOXES “SPECIFICATIONS”

| <b>MODEL</b>                    | <b>6220</b>   | <b>6222</b> | <b>6224</b> |
|---------------------------------|---|-------------|-------------|
| Floor Length                    | 20'6"   | 22'6"       | 24' 6"      |
| Overall Length                  | 24' 2"  | 26'2"       | 28' 2"      |
| Weight                          |   |             |             |
| Main Apron                      | 667X Standard   |             |             |
| Overall Width                   | All Models 107"   |             |             |
| Inside Width                    | All Models 87"  |             |             |
| Overall Height                  | All Models 126" w/Roof<br>All Models 105" (+ 12" for gate pivot) w/o Roof |             |             |
| Inside Height                   | All Models 106" w/Roof  |             |             |
| Speed Selection<br>Front Unload | All Models- Low Range: 0 - 9.45'/minute<br>- High Range 0 - 17'/minute    |             |             |
| Speed Selection<br>Rear Unload  | (PTO Drive) All Models-Approximately 30 Second Unloading Time             |             |             |
| Auger Feathering System         | All Models-Standard Equipment   |             |             |
| Power Source                    | 540 PTO and Hydraulic   |             |             |
| Cross Feed Delivery             | Either Left or Right Hand Discharge                                       |             |             |
| Unloading Auger                 | 3 Large 18" Diameter Augers and 1 - 11 1/2" Diameter Auger                |             |             |
| Cross Conveyor Chain            | D662 Pintle Chain   |             |             |
| Cross Conveyor Width            | All Models-21"  |             |             |
| Box Tie Down Kit                | All Models-Standard Equipment   |             |             |
| Cross Conveyor Outfeed          | 24" Fold-up Standard  |             |             |
| Safety Clutch                   | All Models Standard Equipment   |             |             |

**SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.**

# Notes

MEMBER



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