

OPERATOR'S AND PARTS MANUAL NO. PB-6600
FOR
6600 SERIES

MEYER

TSS VARIABLE SPEED MODEL Front Unload Forage Boxes with Independent Outfeed Clutch

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

6600 SERIES:

Model 6620
Model 6622
Model 6624



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

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

This supersedes all previous published instructions.

IMPORTANT:

At the front of this manual is an "Owner's Registration Form". Be sure your dealer has completed this form and promptly forwarded a copy to Meyer Manufacturing to validate the manufacturer's warranty. The product model and serial number are recorded on this form 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: 12T7242

Model Year / TSS / Model / Sequence of Build

↓ ↓ ↓ ↓
12 T 7 242

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.

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

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.

PRE-DELIVERY & DELIVERY CHECK LIST

TSS Check List

Meyer Manufacturing Corporation

Phone: 715-654-5132 • Toll-Free: 1-800-325-9103 • P.O. Box 405 • Dorchester, WI 54425

This Pre-Delivery & Delivery Check List must be gone through by the Selling Party and the Customer to validate the Owner's Registration Form.

PRE-DELIVERY CHECK LIST

After the New Meyer Forage Box has been completely set-up, check to be certain it is in correct running order before delivering it to the customer.

The following is a list of points to inspect:

Check off each item as you have made the proper adjustments and found the item operating satisfactorily. Any adjustments made, MUST be according to specifications defined in this manual.

- All shields and guards are in place and securely fastened.
- All bolts and other fasteners are secure and tight.
- All mechanisms operate trouble free.
- All grease fittings have been lubricated, gear boxes filled to proper levels, and all roller chains are oiled. See "Lubrication" section of this manual.
- PTO shields turn freely.
- Cross Conveyor Chain and Main Apron Chains are at proper tension. See "Adjustments" section in this manual.
- All roller chain springs adjusted properly for automatic tensioning. See "Adjustments" section in this manual.
- Emergency Stop and Trip Cables operate properly.
- All decals are in place and legible.

DELIVERY CHECK LIST

The following check list is an important reminder of valuable information that **MUST** be passed on to the customer at the time the unit is delivered.

Check off each item as you explain it to the customer.

- Explain to the customer that pre-delivery check list was fully completed.
- Give customer the Owner & Operator's Manual. Instruct to read and completely understand its contents **BEFORE** attempting to operate the Forage Box.
- Explain and review with customer the New Meyer Forage Box manufacturer's warranty.
- Show the customer where to find the serial number on the implement.
- Explain and review with the customer "Safety Precautions" section of this manual.
- Explain and review with customer the "Emergency Stop" and proper "Start-up and Operating Procedures" sections of this manual.
- Demonstrate the "Emergency Stop" operation, activation and reset. Also, demonstrate the PTO Shaft Locking Device, Main Clutch adjustments and the three Control Lever operations.
- Explain that regular lubrication and proper adjustments are required for continued proper operation and long life of the Forage Box. Review with the customer the "Lubrication" and "Adjustments" sections of this manual.
- Explain the importance of cross conveyor & main apron chain, and the need to watch and tighten during the break in period.
- Fully complete this "PRE-DELIVERY & DELIVERY CHECK LIST" with the customer.



Meyer Manufacturing Corporation

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MANUFACTURER'S WARRANTY

MEYER (FRONT UNLOAD) FORAGE BOX

11/2014

- I. The "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, has been used for an application not designed for or pre-authorized by Meyer in writing, has had the serial numbers altered, or which shall have been repaired with parts other than those obtained through Meyer Mfg. Corp. Meyer is not responsible for the following: Depreciation or damage caused by normal wear, lack of reasonable and proper maintenance, failure to follow the operator's manual recommendations or normal maintenance parts and service. Meyer is not responsible for rental of replacement equipment during warranty repairs, damage to a power unit (including but not limited to a truck or tractor), loss of earnings due to equipment down time, or damage to equipment while in transit to or from the factory or dealer.
- 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 "Owner / Operator's Manual & Parts Book", 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:
 - i. Without charge for either parts or labor during the first (1) year from purchase date to the original retail customer.
 - ii. 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:
 - i. 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 6600 Series enclosed main apron drive Superior gearbox assembly, Meyer #19-0151.
 - b. The D667X pintle main apron chain assembly.
 - ii. 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 galvanized 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.A.i. ONLY, except warranty cover 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 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. Tires, optional scales and tarps fall under the original manufacturer's warranty.
- IX. This warranty is effective on all sales of Meyer Forage Boxes made after Serial # 07T7201.

SAFETY PRECAUTIONS



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



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

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

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

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

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.

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.

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

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 CANNOT BE GUARDED OR SHIELDED IN ORDER TO ASSURE PROPER OPERATION. THE OPERATOR'S MANUAL AND DECALS ON THE MACHINE ITSELF WARN YOU OF DANGERS AND MUST BE READ AND OBSERVED CLOSELY!

Study the Above Safety Rules

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



SAFETY FIRST



A brief definition of signal words that 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.

DECAL LOCATIONS

See pages 12 & 13 for decals.



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

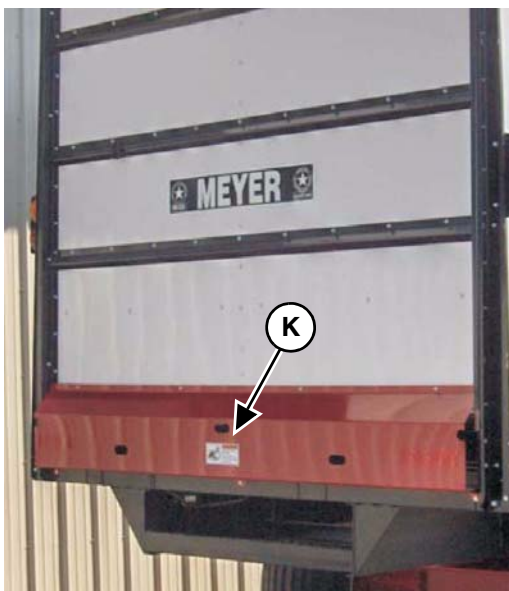
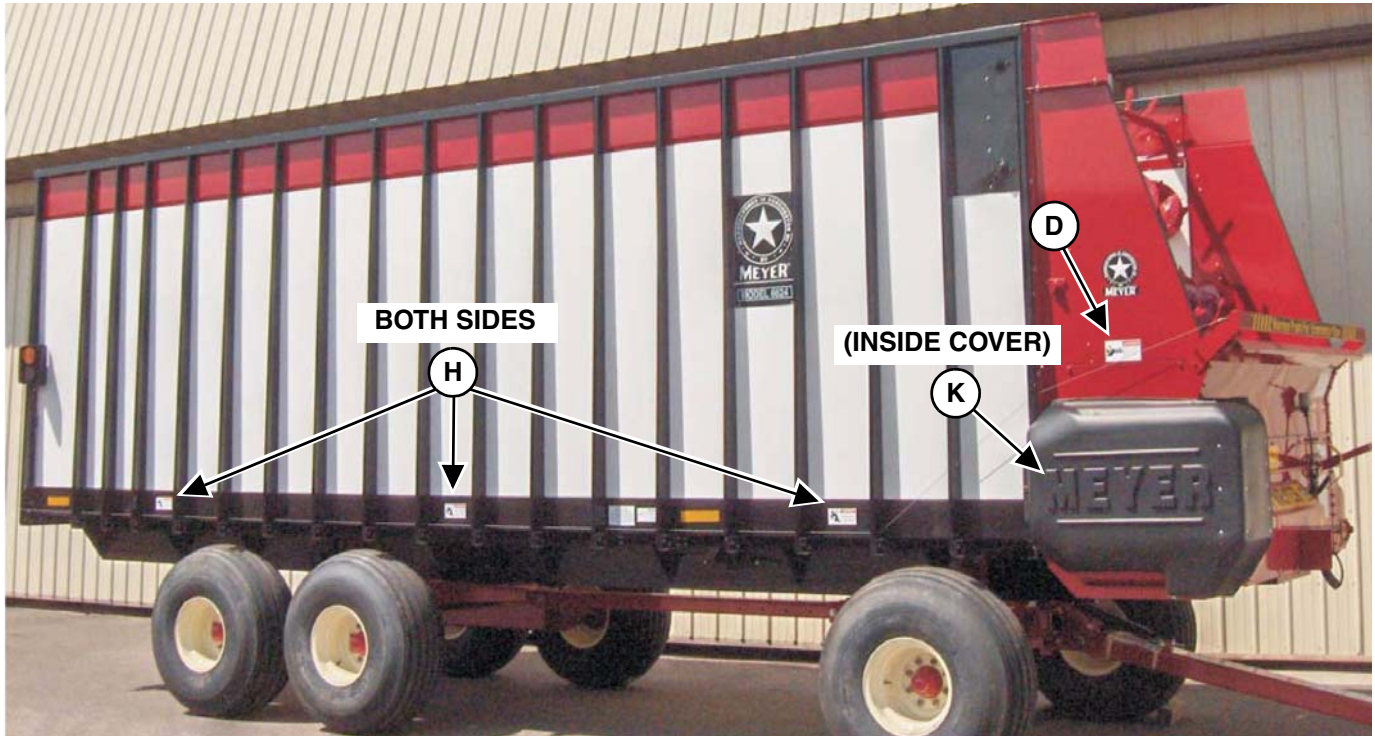


SAFETY FIRST



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

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



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



DECALS - 6600



Warning Push For Emergency Stop

A - 46-001-14 & 46-0001-15

DANGER

ROTATING DRIVE SHAFT
CONTACT CAN CAUSE DEATH
KEEP AWAY!
DO NOT OPERATE WITHOUT-

- ALL DRIVE SHAFT GUARDS, TRACTOR AND EQUIPMENT SHIELDS IN PLACE
- DRIVE SHAFT SECURELY ATTACHED AT BOTH ENDS
- DRIVE SHAFT GUARDS THAT TURN FREELY ON DRIVE SHAFT
- READ OPERATOR'S MANUAL

DO NOT USE PTO ADAPTORS

B - 46-0001-13 (ON PTO SHAFT DRIVE)

DANGER

Rotating Augers
Disconnect and Lock Out Power Before Entering Box to Service.

D - 46-0001-5

WARNING

NOT A STEP!
This is a PTO Guard.
Very serious injury or amputation could result from contact with rotating PTO shaft.

E - 46-0004-2

CAUTION

TO PREVENT SERIOUS INJURY OR DEATH

- DO NOT start, operate, or work on this machine without first carefully reading and thoroughly understanding the entire contents of the operators manual. (Require the same of all personnel who will operate this machine.)
- If operators manual is lost, contact your nearest Meyer Dealership or write or call:
MEYER MFG., CORP.
P.O. BOX 405 • Dorchester, WI 54425-0405
Phone 1-800-325-9103

Please give your name, address, phone number, model and serial number of your machine. A manual will be furnished.

- If you have any questions about operation or adjustments, and maintenance of this machine, contact your Meyer Dealership or Meyer Mfg., Corp. before starting or continuing the operation of this machine.

F - 46-0001-35

CAUTION

SAFETY FIRST
(Do Not Operate This Machine Without Reading These Instructions)

Meyer Mfg. Corp. always takes the operator's safety into consideration when designing farm machinery by covering exposed moving parts for his protection; however, some areas cannot be guarded or shielded in order to assure proper operation.

This safety alert symbol means ATTENTION! BE CAREFUL! YOUR SAFETY IS INVOLVED! It stresses an attitude of HEADS UP FOR SAFETY, also read all other decals as they are also safety warnings.

Remember: The careful operator is the best operator. Most accidents are caused by human error. Certain precautions must be observed to prevent the possibility of injury or damage.

Read the HEADS UP Rules before you operate our equipment.

- DO NOT allow persons other than the authorized adult operator near the machine.
- DO NOT clean, adjust, or lubricate the machine when any part is in operation.
- DO NOT pass in front of discharge area of machine when implement is in operation.
- Tractor PTO MUST match implement PTO. (NEVER USE PTO ADAPTORS.)

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

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

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

NEVER START THE MACHINE UNTIL ALL GUARDS AND SAFETY SHIELDS ARE SECURED IN PLACE.

KEEP OFF EQUIPMENT UNLESS SEAT OR PLATFORM FOR OPERATION AND OBSERVATION IS PROVIDED. KEEP ALL OTHERS OFF.

PTO SHIELD MUST ROTATE FREELY AND BE IN PLACE.

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

YOU MUST OBSERVE ALL APPLICABLE TRAFFIC LAWS WHEN TRANSPORTING ON PUBLIC ROADWAYS (WHERE LEGAL TO DO SO). CHECK LOCAL LAWS FOR ALL HIGHWAY LIGHTING AND MARKING REQUIREMENTS AND COMPLY WITH THESE LAWS.

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

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

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

J - 46-0001-22

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



DECALS - 6600



	<p>CAUTION</p> <p>Use Flashing Warning Lights when transporting on <u>ALL</u> highways (public roadways) at <u>ALL</u> times.</p> <p>EXCEPT WHEN PROHIBITED BY LAW! (Check w/local law enforcement)</p> <p><small>46-0001-62 1</small></p>
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G - 46-0001-62

<p>WARNING</p>	
<p><small>46-0001-33</small></p>	
<p>KEEP ALL SHIELDS IN PLACE WHILE MACHINE IS RUNNING</p>	

I - 46-0001-33

<p><small>46-0001-20</small></p>	<p>DANGER</p> <p>Moving Parts Keep Away</p>
----------------------------------	--

H - 46-0001-20

<p><small>46-0001-26</small></p>	<p>DANGER</p> <p>ENTANGLEMENT HAZARD</p> <p>Keep All Shields In Place While Machine Is Running</p>
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K - 46-0001-26

<p><small>46-8500-7 1</small></p>	<p>WARNING</p> <p>OIL INJECTION HAZARD</p> <p>RELIEVE PRESSURE BEFORE SERVICING.</p> <p>DO NOT CHECK WITH HANDS.</p> <p>IF INJURED SEEK EMERGENCY MEDICAL ATTENTION.</p>
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46-8500-7



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



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.

EMERGENCY STOP TRIP LOCATIONS



EMERGENCY STOP PUSH BAR

EMERGENCY STOP TRIP CABLES EXTENDING ALONG BOTH SIDES

EMERGENCY STOP TRIP CABLES 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.

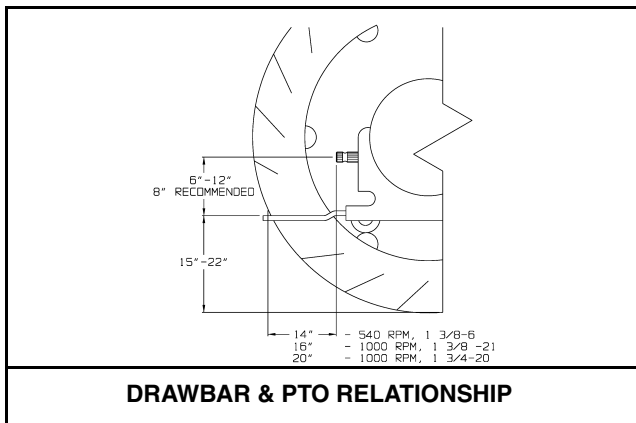
Reset the emergency stop and recheck using the emergency stop trip cables at various locations to ensure that the forage box can be shut down in an emergency. Periodically repeat emergency stop inspections during the operating season and at all times keep excessive slack out of the emergency stop trip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



! 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 WITHOUT ALL SHIELDS, GUARDS AND COVERS INSTALLED. 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.



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.

46-0800-6

! WARNING

CRUSHING HAZARD

To prevent serious injury or death:

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

46-0800-6

! WARNING

RUN-AWAY HAZARD

To prevent serious injury or death:

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

46-0800-7

! 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.



PROPER PTO DRIVE SHAFT 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.

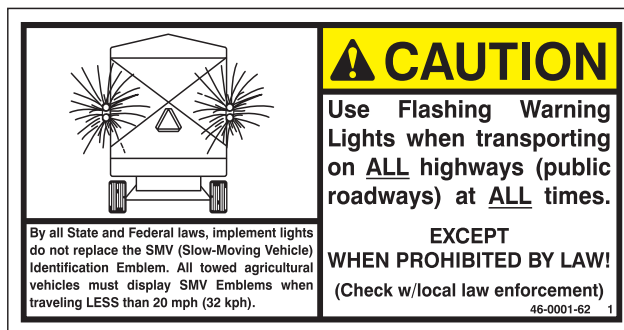
! WARNING: DO NOT TOW AT SPEEDS IN EXCESS OF 20 MPH. FAILURE TO HEED MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.

NOTE: The PTO horsepower requirements may not reflect adequate tractor size for towing the machine. Refer to tractor weight requirements for these recommendations and safety section for additional tractor and towing requirements.

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 addition 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.



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.

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 DISENGAGE 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.

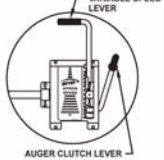
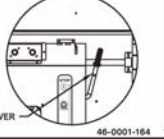
The RH control lever is the HI-LO RANGE control. Center detent is the “Neutral” position. Shifting the lever up on the control quadrant is “LO” RANGE and shifting the lever fully down is “HI” RANGE. Range selection affects the forward speed of the main apron chains only. In the “Neutral” position, the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

OPERATING PROCEDURE

NOTE: The VARIABLE SPEED, AUGER CLUTCH, and OUTFEED CLUTCH levers must be in their “STOP” 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 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 bagger/blower hopper. Park the forage box and tractor in a straight line to prevent wearing of PTO drive shaft joints. If equipped with a cross conveyor extension, lower it down for unloading.
2. Check that the OUTFEED CLUTCH lever is in the “STOP” position, and the AUGER CLUTCH & VARIABLE SPEED levers are in their “STOP” positions.
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. Intermittently engage the OUTFEED CLUTCH lever in the “RUN” position and allow the cross conveyor to empty out any accumulation of forage in the front conveyor of the forage box. After the forage has emptied, fully engage the OUTFEED CLUTCH lever into the “RUN” position.
5. Intermittently engage the AUGER CLUTCH lever in the “RUN” position to allow the augers to empty out any accumulation of forage in the augers. After the augers have emptied, fully engage the AUGER CLUTCH lever into the “RUN” position.
6. Set the VARIABLE SPEED lever in a slow speed setting to start unloading. Increase speed of the VARIABLE SPEED lever to regulate rate of forage box unloading speed to match capacity of the bagger/blower. Use faster setting for main apron “cleanout” and small or partial loads.
7. When unloading is complete, slowly return the VARIABLE SPEED lever to the “STOP” position and then the AUGER CLUTCH lever to the “STOP” 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.

When Rear Unloading:
All 3 control levers MUST be in the disengage (“STOP”) position.

46-0001-164

DECAL #46-0001-164



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

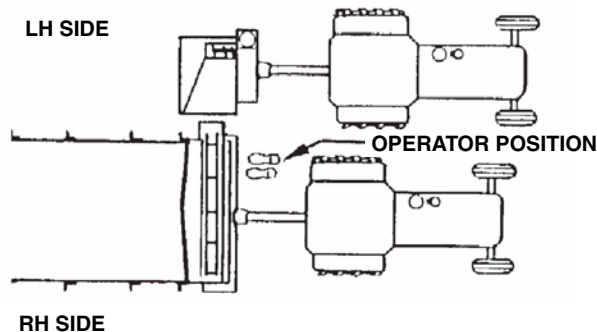
- INDEPENDENT OUTFEED CLUTCH - IOC
- VARIABLE SPEED
- “HI-LO RANGE”

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.



OPERATOR TRAFFIC PATTERN



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 1st and/or 2nd 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.”

SHUT DOWN 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 manufacturers 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.

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)

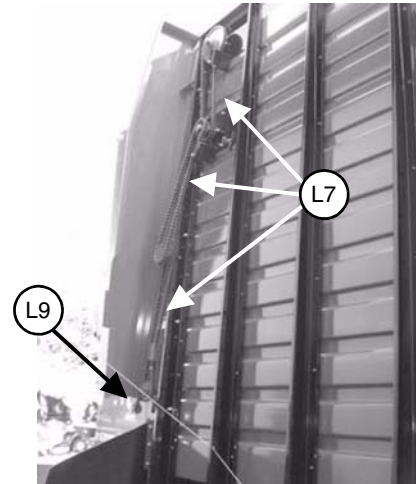
- L1 Grease (2) PTO drive shaft universal joints (not illustrated). Grease (1) PTO drive shaft telescoping shaft and tube. Zerk accessible through the plastic guards (not illustrated).
- L2 Grease front idler sprocket - wipe off excess grease from exterior.
- L3 Grease (2) moveable clutch sheaves - wipe 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 (4) roller chains on auger drive and (1) roller chain on cross conveyor drive. Open the auger chain cover to oil the chains.

BEGINNING OF CROP MAINTENANCE

(approximately 100-150 loads)

- L9 Grease (2) main apron shaft bearings (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.
- L13 Maintain oil in the front main apron drive lower gearbox at the check plug level. Change oil in the gearbox 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.

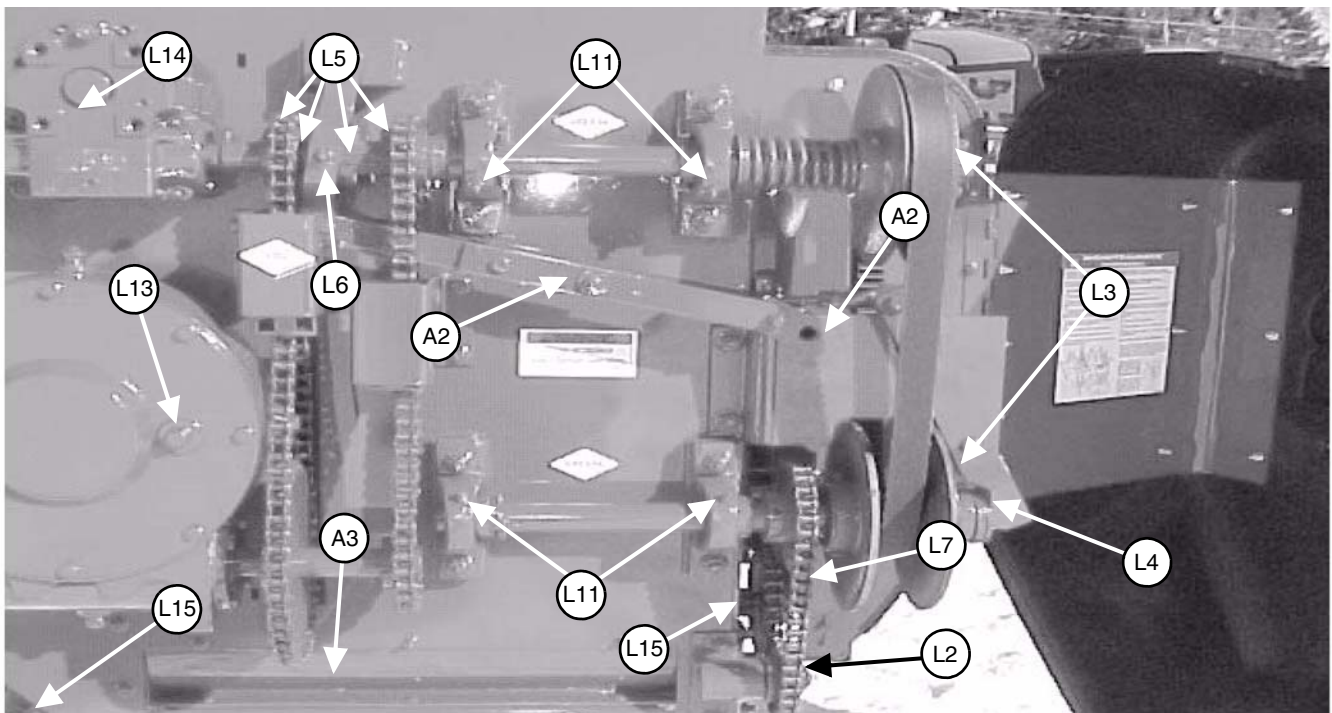
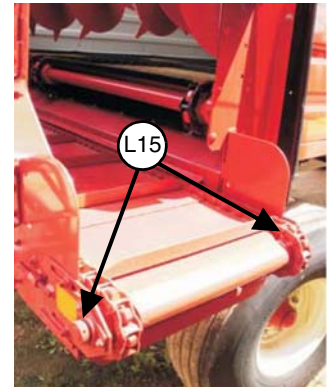
END OF CROP CLEANUP AND MAINTENANCE



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.



LUBRICATION DIAGRAMS (Cover Open for Illustration Purposes Only)

Equivalent Viscosity of ISO-VG Grades at 104°F and SAE Gear Lube Grades

ISO-VG Grade	SAE Gear Lube Grade
46	75W
100	80W-90
220	90
460	85W-140
1500	250

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.



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

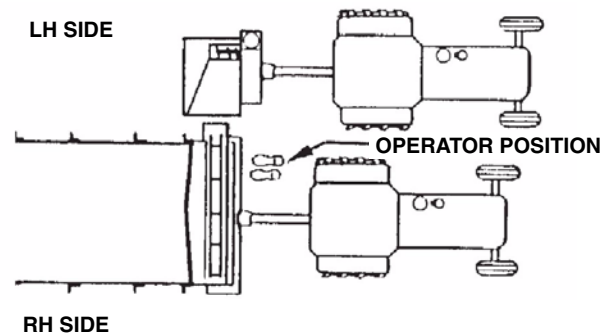
Pull the forage box into position and park so that the cross conveyor discharge opening is in alignment with the silo filling blower hopper. If the forage box is equipped with a fold down conveyor extension, it can be lowered before pulling in front of the blower. After a couple of parking trials, you 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.

! 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.



OPERATOR TRAFFIC PATTERN

! 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 19.

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.

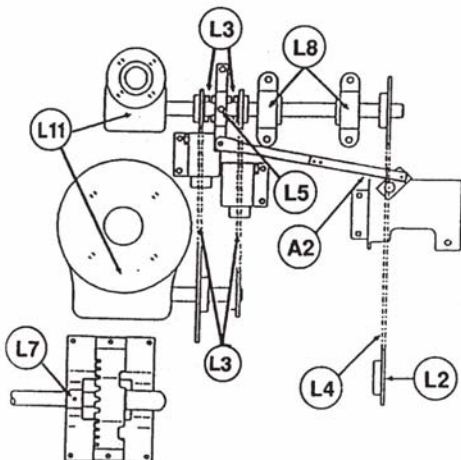
RANGE CONTROL CLUTCH ENGAGEMENT

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

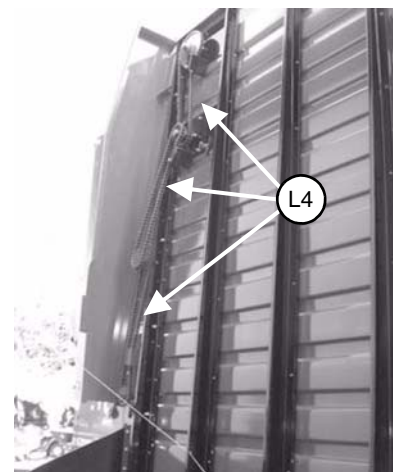
(every 100-150 loads)

- 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 & L14, page 21.
- L15** Grease (4) Cross Conveyor Apron Shaft Bearings, see page 21.
- A2** Adjust range control per “Clutch Engagement”.

END OF CROP CLEANUP AND MAINTENANCE

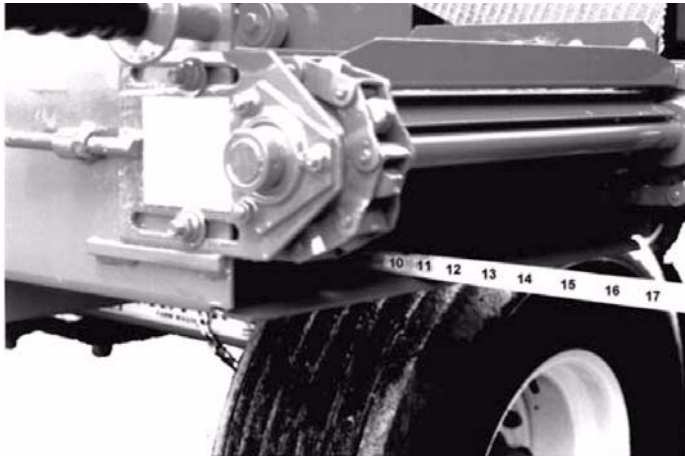
Clean out all forage material from inside the box, roof, and on the outside of the box. Clean the front cross apron on the top and in the lower pan (chain return) area. Clean out the deflector shield at the rear of the box, both inside and outside.

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

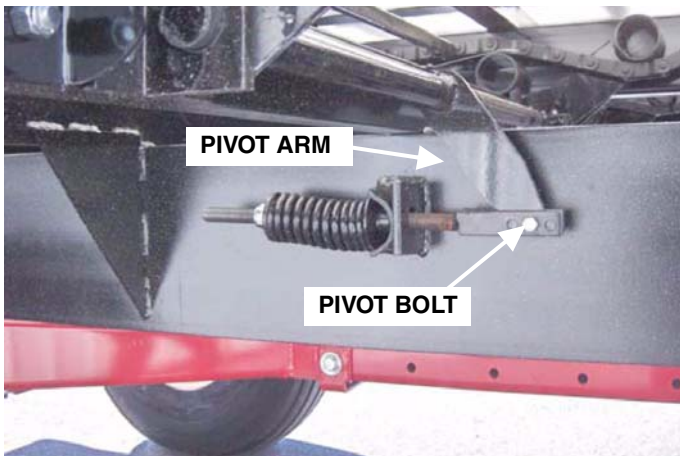
After unloading the first ten loads, check the main apron chain tension. After initial adjustment check chain tension daily for the next five days of operation. Initial wear in of chain will require adjustment to maintain proper chain tension. **FAILURE TO MAINTAIN PROPER CHAIN TENSION MAY VOID WARRANTY.** 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 26. Tighten to 5" compressed length.

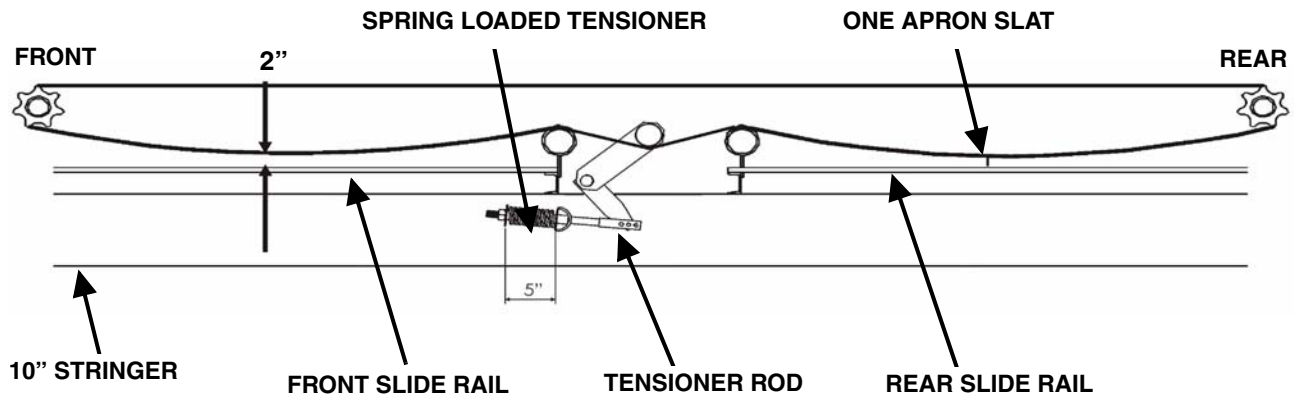
In addition to the spring loaded tensioner, there is located on the inner chain strands of each apron assembly a fine adjustment bolt on the pivoting arm tightener. Adjust as needed to equalize stretch in chain strand pairs of each independent apron assembly. See page 26.

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.



ADJUSTMENT OF 6600 SERIES MAIN APRON CHAINS



(Left Hand Side - Side View) typical both sides

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. Readjust 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 24 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. 9. 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:

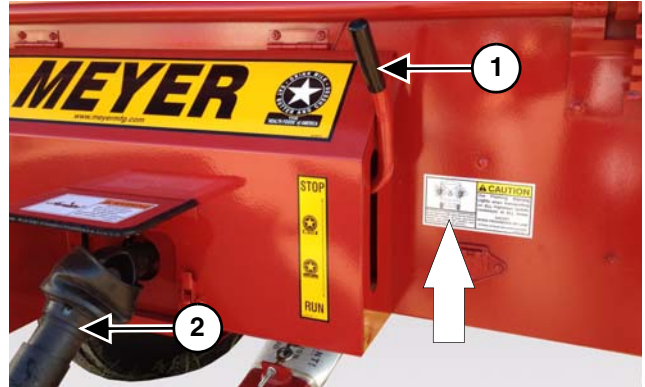
1. With the Variable Speed control lever in "NEUTRAL," remove the drive belt as described under Variable Speed Belt Replacement.
2. Move the Variable Speed control lever down to the 2nd from last notch on the control quadrant.
3. Check lower sheaves engagement:
 - A. If bases of sheaves do not set tight 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 **REPLACED** 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.

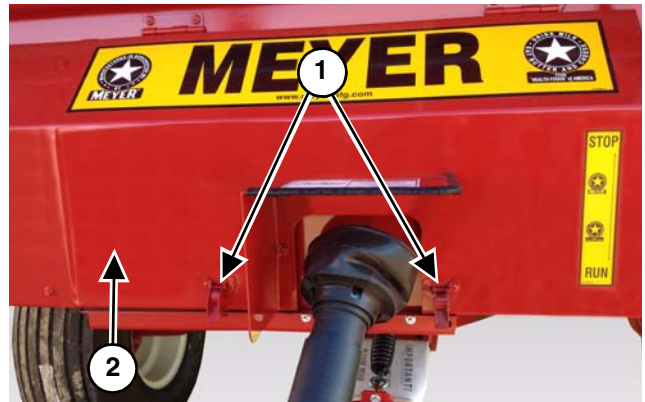
INDEPENDENT OUTFEED CLUTCH BELT REPLACEMENT

⚠ 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.

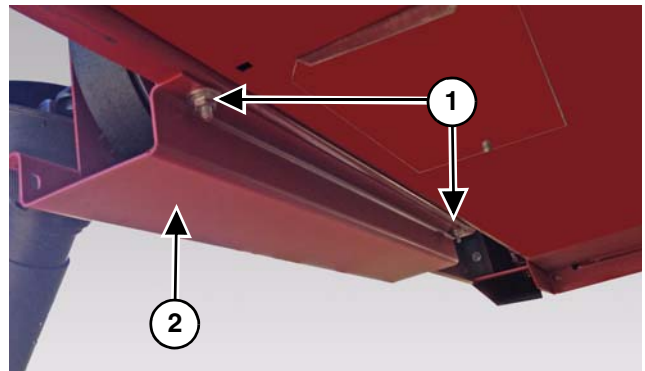
1. Move the Independent Outfeed Clutch control lever (Item 1) to “STOP” (up).
2. Extend the PTO drive shaft (Item 2) out straight and lower the tractor end down to ground.



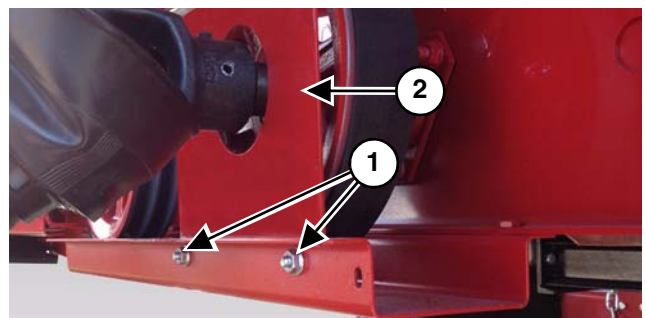
3. Release the two latches (Item 1) and raise the front chain shield assembly (Item 2).



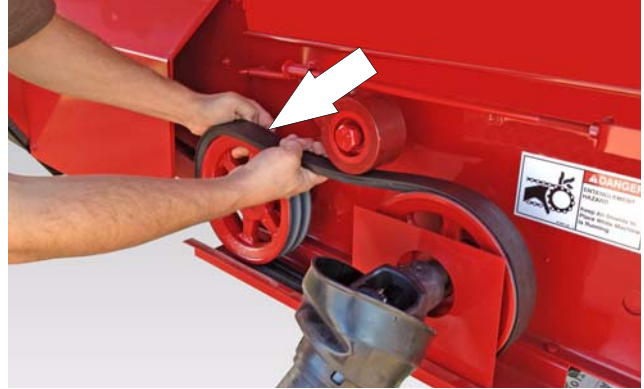
4. Loosen the two bolts (Item 1) on the belt pan (Item 2).



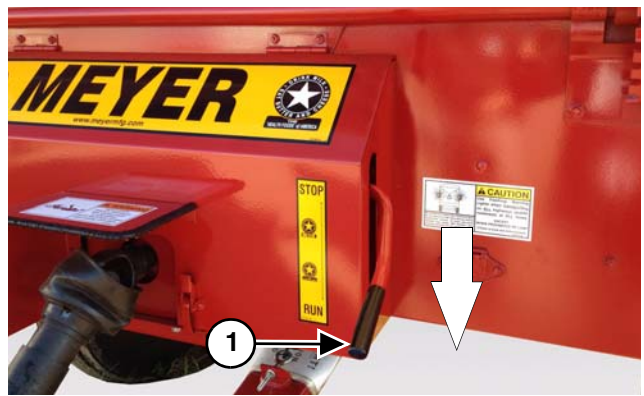
5. Remove the two bolts (Item 1) for the PTO shaft cover (Item 2).



6. Roll off the old Double V-Belt from the two pulleys.
7. Slide the old Double V-Belt under the PTO shaft cover and down over the end of the PTO drive shaft.
8. Install new Double V-Belt over the end of the PTO drive shaft and up, under the PTO shaft cover and onto the two pulleys.

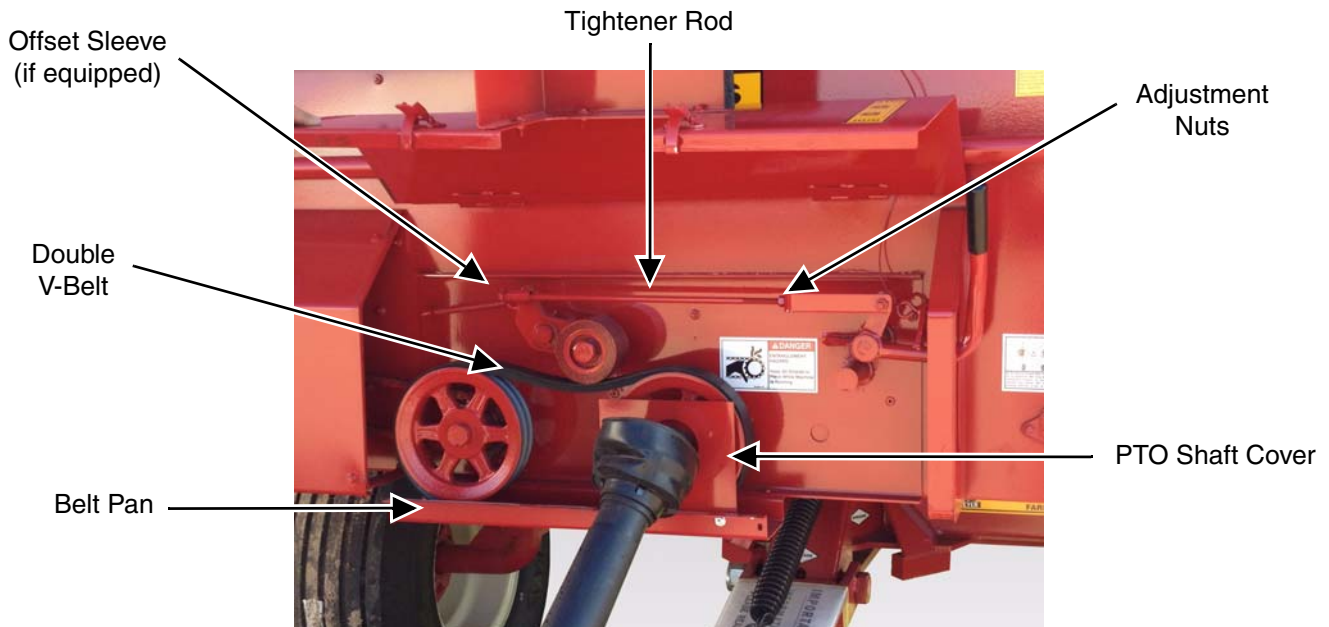


9. Move the Independent Outfeed Clutch control lever (Item 1) to "RUN" (down). Check for proper tension. Adjust as needed. (See Independent Outfeed Clutch Adjustment).
10. Refasten the PTO input shaft cover and belt pan.
11. Lower the front chain shield assembly and secure the two latches.
12. Raise the PTO drive shaft and place into the PTO storage bracket.



INDEPENDENT OUTFEED CLUTCH ADJUSTMENT

Lengthen or shorten tightener rod with jam nuts to create moderate tension on the Double V-Belt when engaging the Independent Outfeed Clutch control lever into the "Run" position. See the following illustration for component locations.

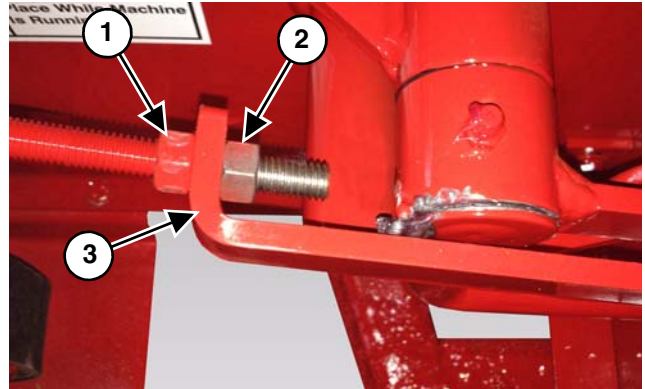


NOTE: Proper tension is when the belt is loose enough so that it does not engage when the handle is up (disengaged), and that it does not slip under load when the handle is down (engaged).

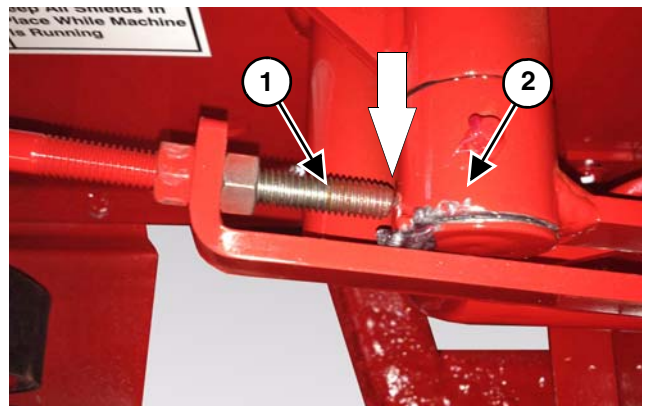
1. Loosen the nut(s) on the back / front side of the handle linkage, and then adjust the nuts on either side of the handle linkage.

Increase Tension - Loosen the front nut (Item 1), tighten the back nut (Item 2) to increase belt tension. When the desired tension is achieved, tighten the front nut against the handle linkage (Item 3).

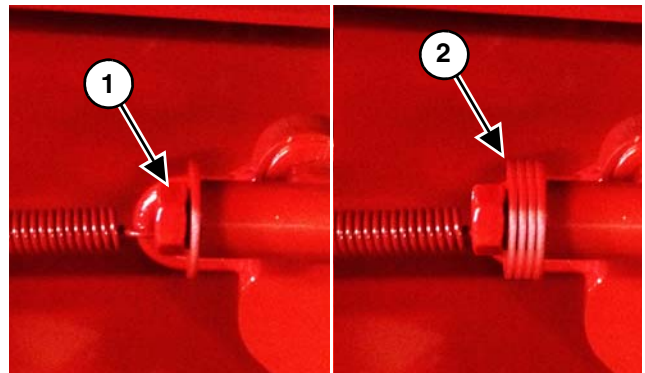
Decrease Tension - Loosen the back nut (Item 2), tighten the front nut (Item 1) against the handle linkage (Item 3) to relieve tension on the belt. When the desired tension has been removed, tighten the back nut against the handle linkage.



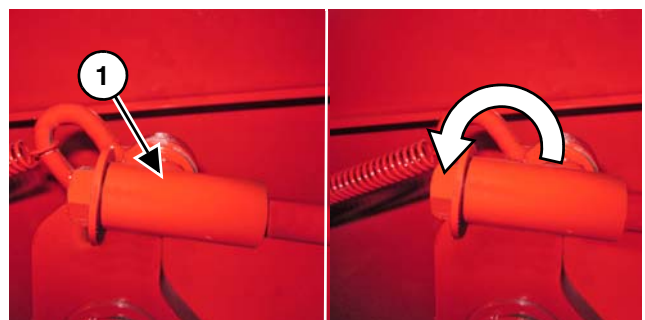
NOTE: The adjustment is maxed out when the rod (Item 1) hits the pivot (Item 2) when engaging the handle.



2. (Only if Step 1 does not provide enough adjustment.) Remove the nut(s) on the back and front side of the handle linkage. Remove the tightener rod (Item 1), then add washers (Item 2) (as needed) to the rod behind the tightener sleeve weldment. Re-install the tightener rod. Repeat Step 1.

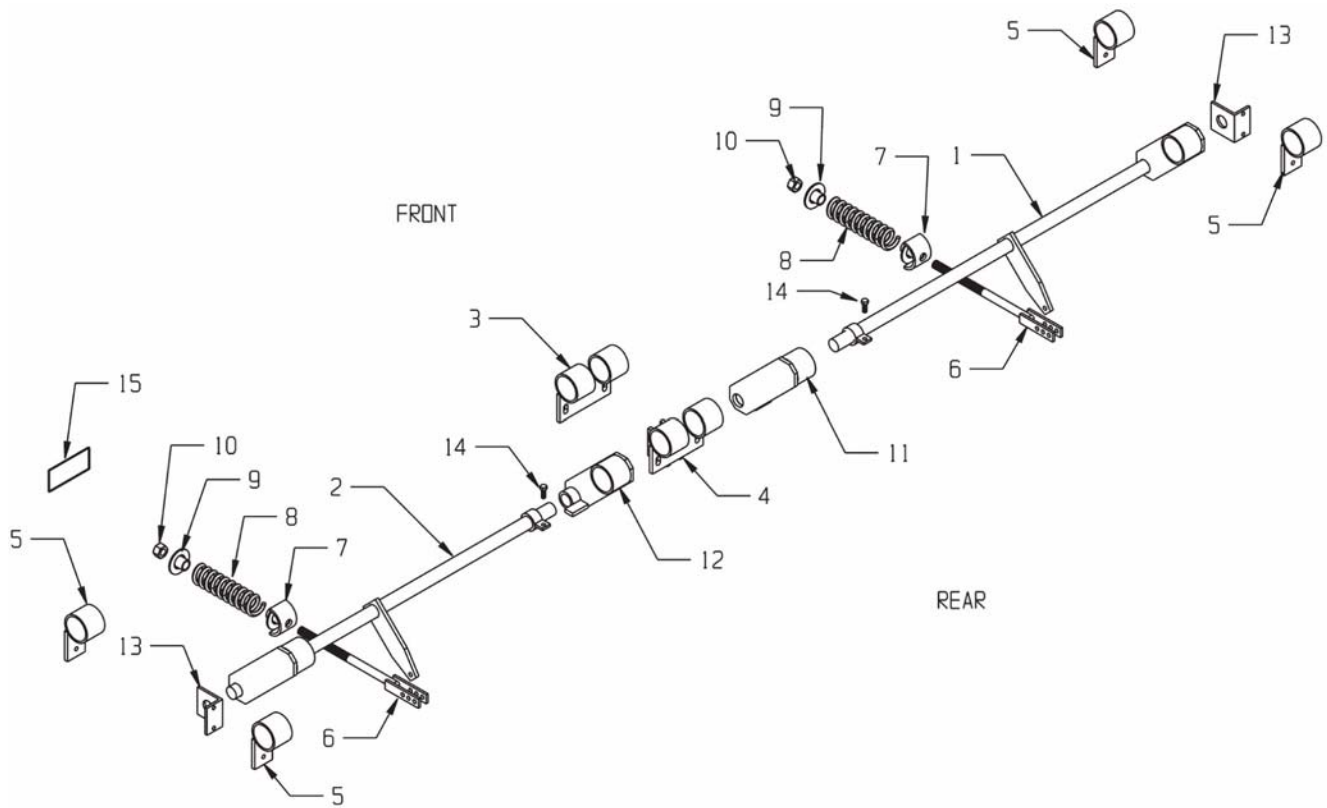


NOTE: If the forage box is equipped with an offset sleeve (Item 1), flip so the long end of the sleeve is toward the head of the bolt.



REPAIR PARTS

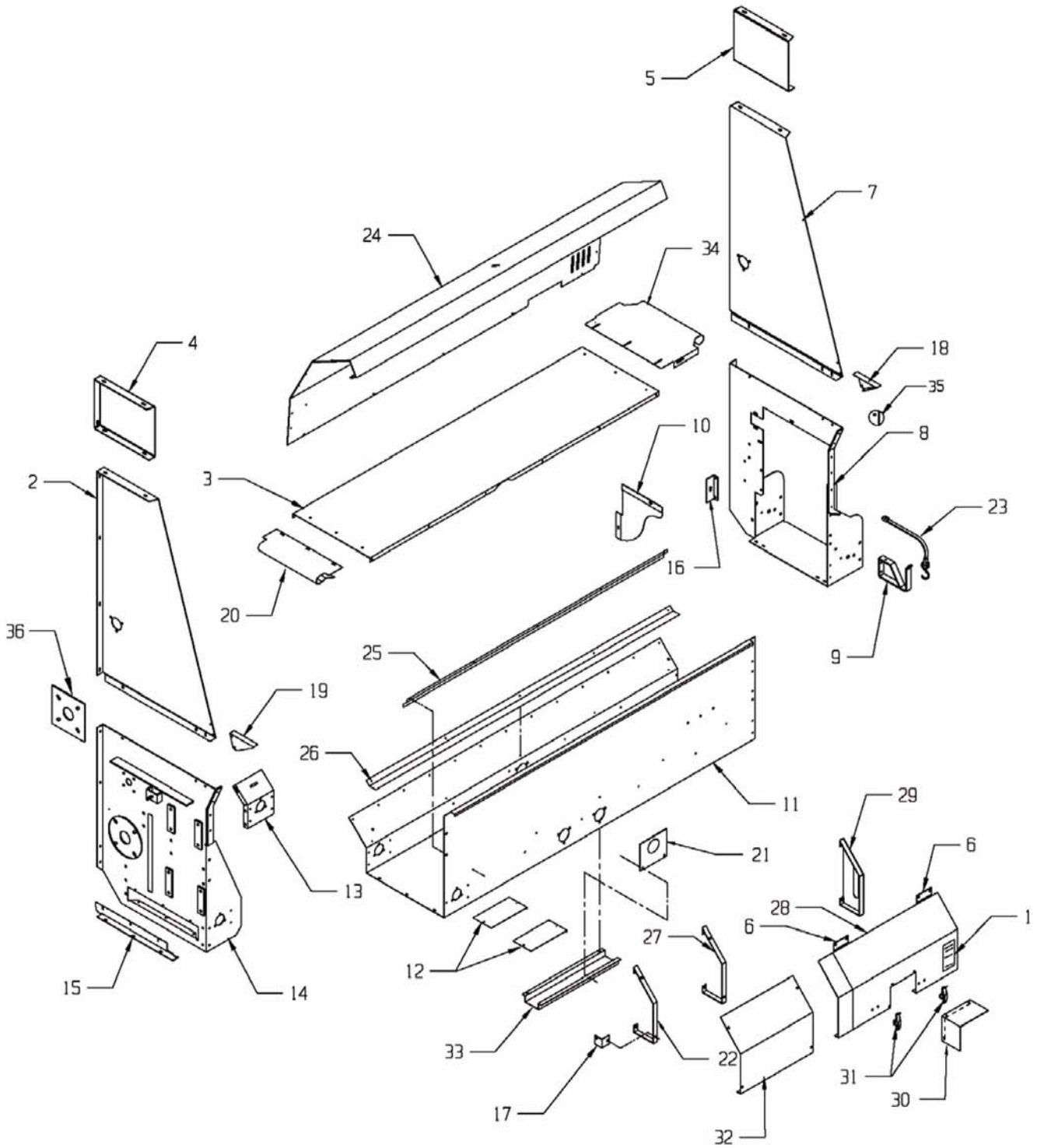
FRONT UNLOAD FORAGE BOX MAIN APRON CHAIN TIGHTENER



FRONT 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	225-6009	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 Assy. 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	Clutch 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-Left Hand Unload
	39-0017-RH	1	Discharge Frame-Right Hand Unload
9	25-0006	1	PTO Hanger Bracket
10	24-0099	1	Auger Guard-Left Hand Unload
	24-0099-RH	1	Auger Guard-Right Hand Unload
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	39-0023	1	End Frame Weldment-Left Hand Unload
	39-0023-RH	1	End Frame Weldment-Right Hand Unload
	39-0028	1	RT300 / 700 Right End Frame, Welded Assembly (See Page 48)
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-Left Hand Unload
	31-0013-RH	1	Solid Spillage Guard-Right Hand Unload
25	25-0200	1	TSS X-Apron Front Hold-down-Left Hand Unload
	25-0200-RH	1	TSS X-Apron Front Hold-down-Right Hand Unload
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-Left Hand Unload
	24-0123-RH	1	Hinged Front Chain Shield Assembly-Right Hand Unload
29	24-0122	1	Clutch Front Shield End Cap-Left Hand Unload
	24-0122-RH	1	Clutch Front Shield End Cap-Right Hand Unload
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
36	39-0018-1	1	RH End Frame Seal Plate
NS	NS TSS-POLY-CC-EXT	1	Poly Cross Conveyor Option for Units with 2' Extension

* FOR EXTENSION SEE PAGE 37.

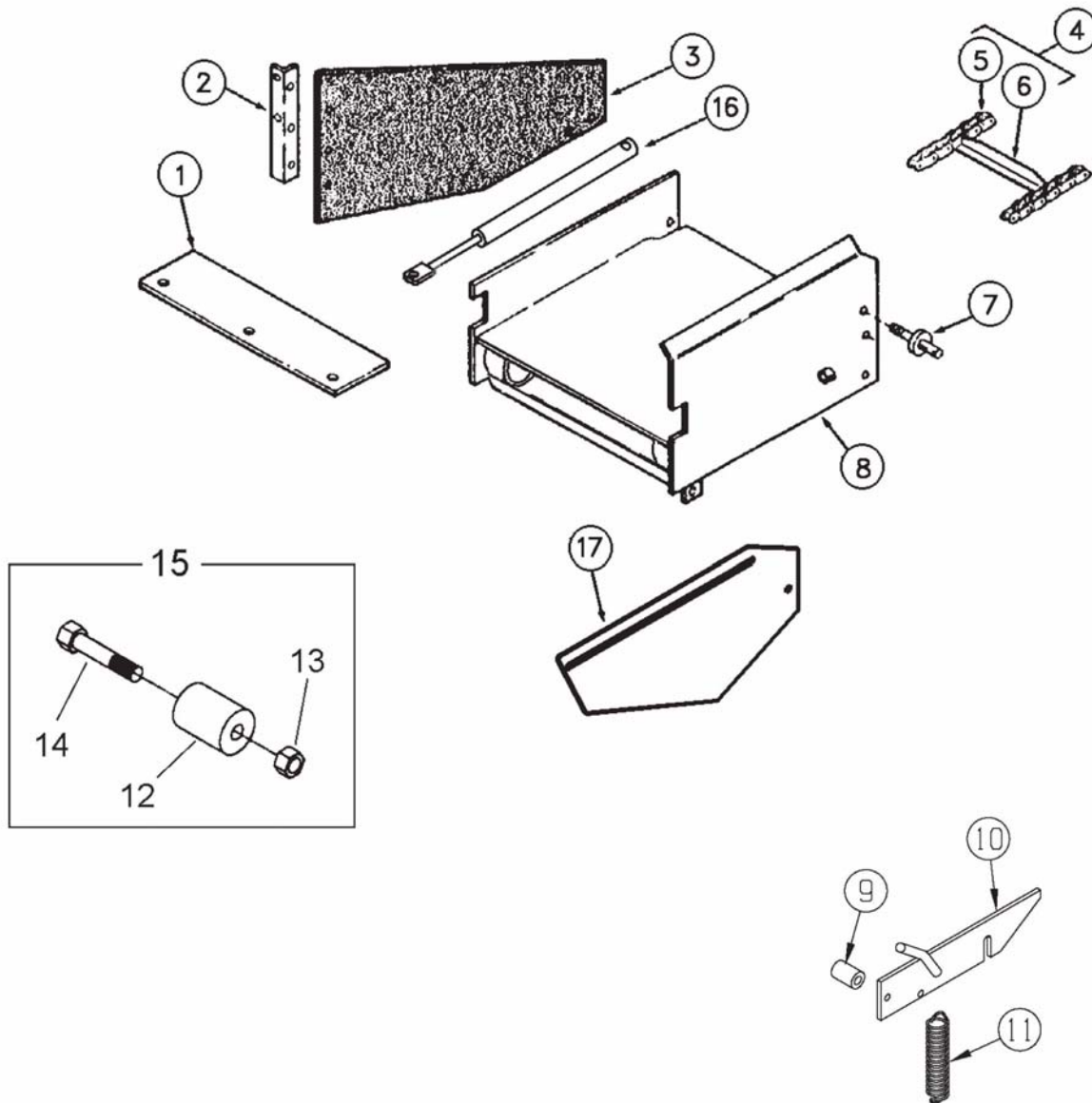
TSS CROSS CONVEYOR W/IOC

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 Fitting for 1" Bearing
4	14-0004-3-BTS	2	Bearing, 1" w/collar B-Type Seal
5	35-0002	5	Key, Woodruff, 1/4" x 1-1/4"
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 Grease Fitting for 1" Bearing
15	14-0004-3-BTS	2	Bearing, 1" w/collar B-Type Seal
16	25-0074 2	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 Fitting for 1" Bearing

#52-0001TK TSS 12" EXTENSION KIT
(Regular LH Unloading)

#52-0001TK-RH TSS EXTENSION KIT
(Optional RH Unloading)

#52-0021 OPTIONAL HYDRAULIC LIFT PKG
(Not Shown)



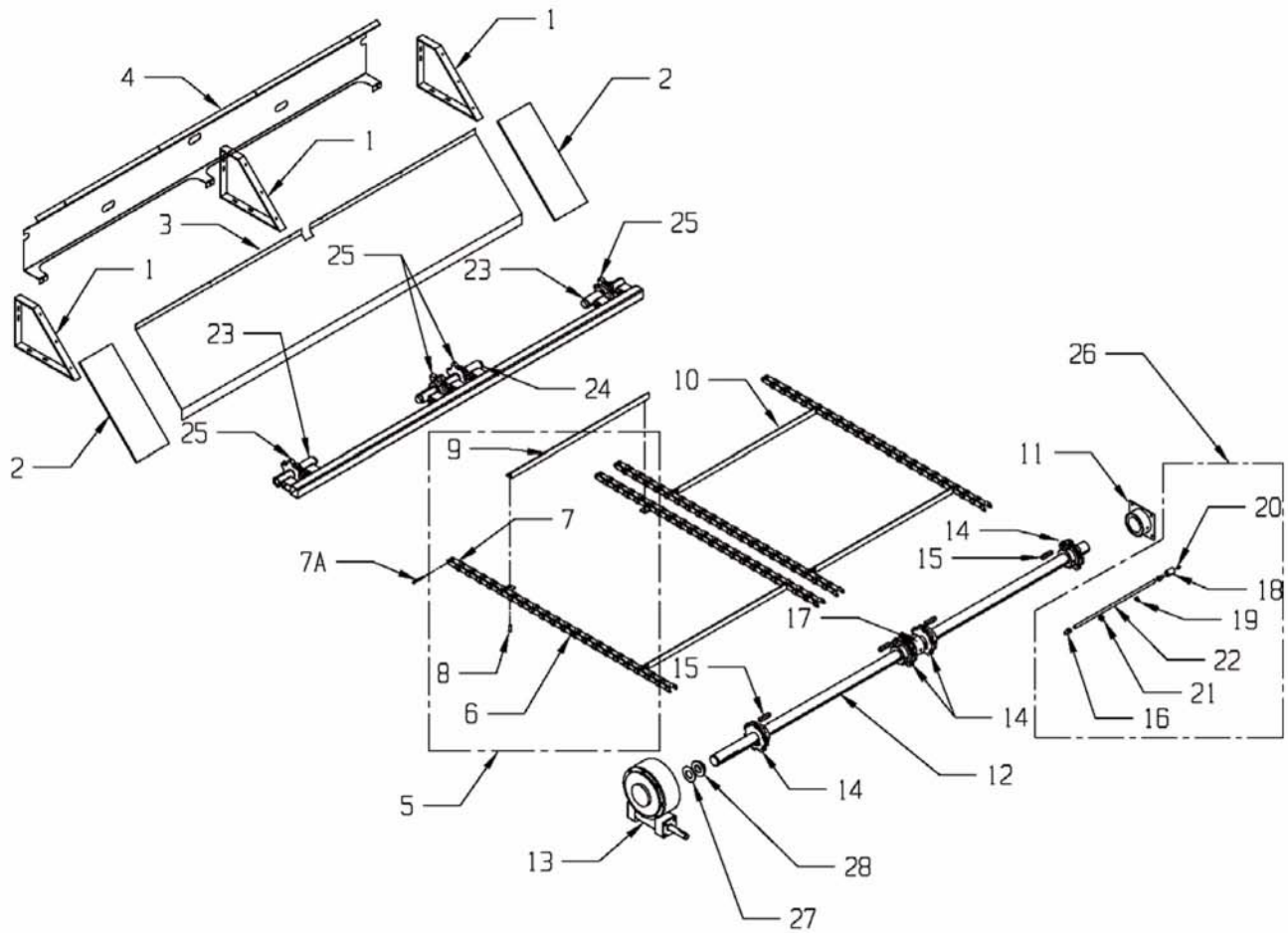
**#52-0001TK TSS 12" EXTENSION KIT
(Regular LH Unloading)**

**#52-0001TK-RH TSS EXTENSION KIT
(Optional RH Unloading)**

**#52-0021 OPTIONAL HYDRAULIC LIFT PKG
(Not Shown)**

KEY	PART NO.	QTY.	DESCRIPTION
	52-0001TK	1	TSS Optional Extension Kit 12"
	52-0001TK-RH	1	TSS Optional Extension Kit 12" Right Hand Unload
	52-0009K-FB	1	3' Feeder Box Optional Extension Kit
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	2' Extension Section Cross Apron Pintle Chain Assembly
	11-0122	1	3' Extension Section Cross Apron Pintle Chain Assembly
5	11-0006-1	24	Link, Pintle 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"
	45-0002-RH	1	Frame Extension 12" Right Hand Unload
	45-0003-FB	1	Frame Extension 24" w/Hydraulic Lift Shaft
	45-0003-FB-RH	1	Frame Extension 24" Right Hand Unload 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	1/2-13 x 2-1/4" M.B.
15	44-0051	2	Extension Holdown Shaft Assembly w/Bolt
16	955-3703	1	Gas Shock (2011 Model Year and Later)
17	39-0017-2	1	Deflector (2011 Model Year and Later)
NS	55-0093	1	2 x 8" Hydraulic Cylinder
NS	25-0235	1	Upper Cylinder Mount Plate
NS	955-0002	2	3/8 x 27" Hydraulic Hose
NS	55-0054	1	3/8 x 21" Hydraulic Pipe
NS	55-0067	1	3/8 x 14" Hydraulic Pipe
NS	955-3605	2	3/8 x 90° Elbow
NS	955-3609	4	3/8" NPT Coupler
NS	955-0003	2	3/8 x 90° Street Elbow
NS	933-3602	1	Hydraulic Pipe Bracket
NS	25-0234	1	Hydraulic Pipe Mount Bracket
NS	55-0052	2	3/8 x 24" Hydraulic Pipe
NS	29-0029	1	Hydraulic Hose Tender Spring Kit with Sleeve & Hardware
NS	55-0033-S	1	1/4" Twin Hose Clamp
NS	55-0051	2	1/4 x 130" Hydraulic Hose
NS	811-3118-2Z	1	5/16 - 18 x 2" Eyebolt
NS	823-.18-1.25Z	1	3/16 x 1-1/4" Cotter Pin

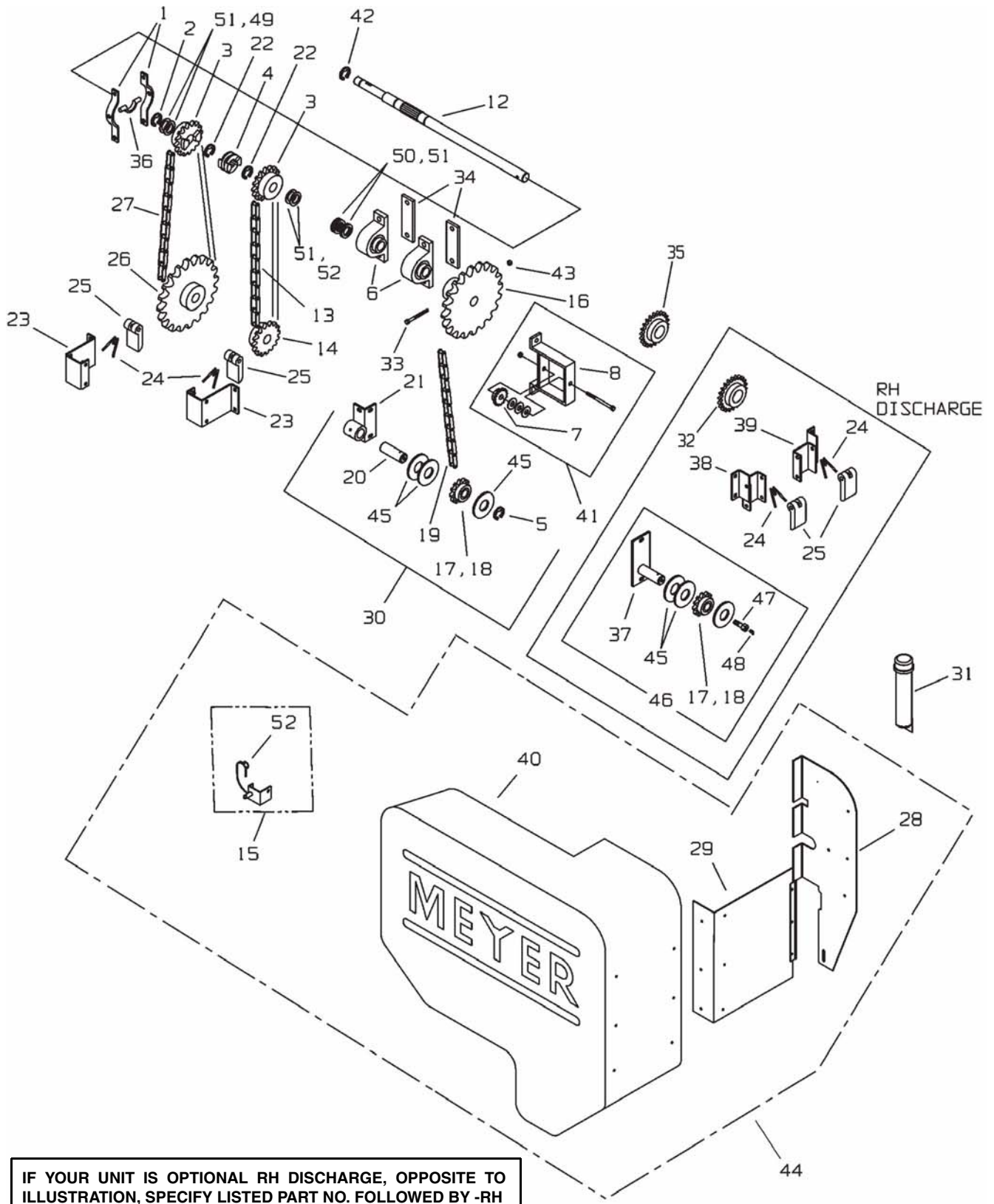
FRONT UNLOAD MAIN APRON



FRONT UNLOAD MAIN APRON

KEY	PART NO.	QTY.	DESCRIPTION
1	25-0141	3	Brkt, Deflector Shield Support
2	49-0006	2	Rear Deflector Shield Belting
3	24-0090	1	Deflector Shield
4	24-0127	1	Rear Shield (Prior to Serial # 11T7205)
	24-0131	1	Rear Shield w/LED Light Cutouts (Serial #11T7205 & Later)
5	11-0165-D	2	6620 Floor Chain Assembly DH667X
	11-0166-D	2	6622 Floor Chain Assembly DH667X
	11-0167-D	2	6624 Floor Chain Assembly DH667X
6	11-0008-3-D		Attachment Link-DH667X
7	11-0008-1-D		Pintle Chain Link-DH667X
7A	11-0008-8		Pintle Chain Pin 667X
8	11-0008-2	88	Rivet, 3/8 x 1
9	11-0080		Main Apron Slat Only
10	11-0084-2-D		Chain Slat w/attachments-DH667
11	14-0050	1	1 Shaft Bearing Assy., Front Drive
12	23-0155-1-1045	1	Front Drive Shaft
13	19-0151	1	Front Gear Reducer Less Shaft (50:1) (See page 61)
14	10-0094-F	4	Sprocket Assy., Front Main Drive
15	35-0008	4	1/2x1/2x2" Square Key 1045
16	930-3602	2	Male Brass Compression Fitting
17	14-0038	1	Front Center Main Drive Bearing
18	30-0009	1	1/8" NPT Coupler
19	32-0024	1	9/32" Loom Clamp
20	30-0002	1	1/8" NPT Straight Zerk
21	33-1003	1	Rubber Grommet
22	735-.25CT		Copper Tube Grease Line (By the foot)
23	23-0110	2	RH/LH Idler Shaft
24	23-0111	1	Center Idler Shaft
25	10-0075	4	Rear Idler Sprockets W/Bushing
	13-0018	4	Bronze Bushing
26	933-3637	1	Grease Line Assy
27	933-3606	1	Bronze Washer
28	25-6016	1	Washer Assy, Front Drive

TWO SPEED CLUSTER DRIVE



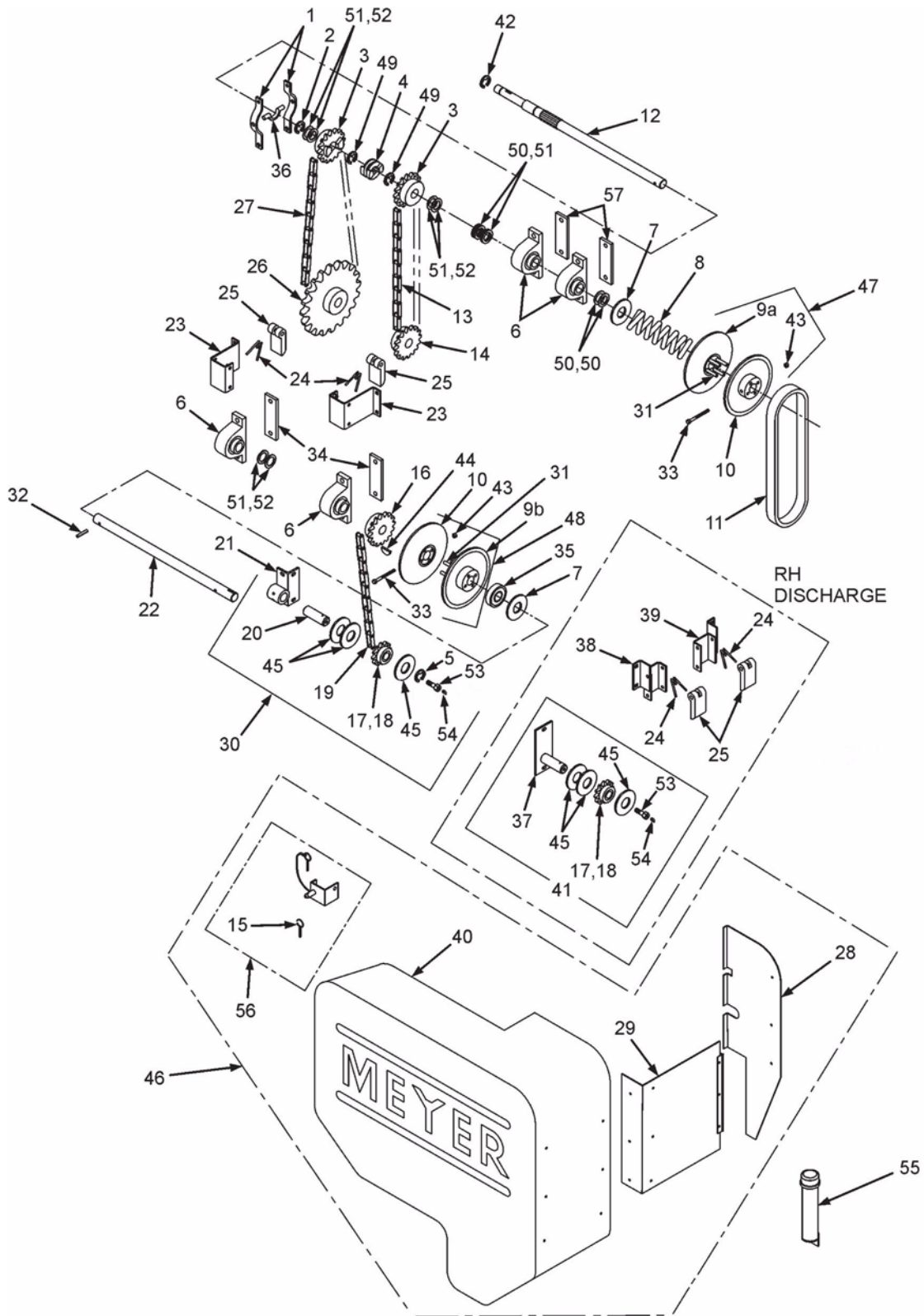
6600-TwoSpeedClusterDrive.cdr

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	823-0003	1	Pin
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	#50-240 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	25-0198-ASM	1	Cluster Shield Front 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	5/16 x 3-1/2 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	19-0002-8		1" ID Snap Ring
43	815-3118-Z	1	5/16" Nylon Insert Lock Nut
44	24-0112-K	1	T700 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" x 3/4
48	30-0004	1	1/4"-28 90° Grease Fitting
49	808-1.25-1.875-18	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	25-0197	A/R	Plastic Cluster Door Catch Bracket

* These items for RH discharge units only

TSS VARIABLE SPEED CLUSTER DRIVE W/IOC



IF YOUR UNIT IS OPTIONAL RH DISCHARGE, OPPOSITE TO ILLUSTRATION, SPECIFY LISTED PART NO. FOLLOWED BY -RH

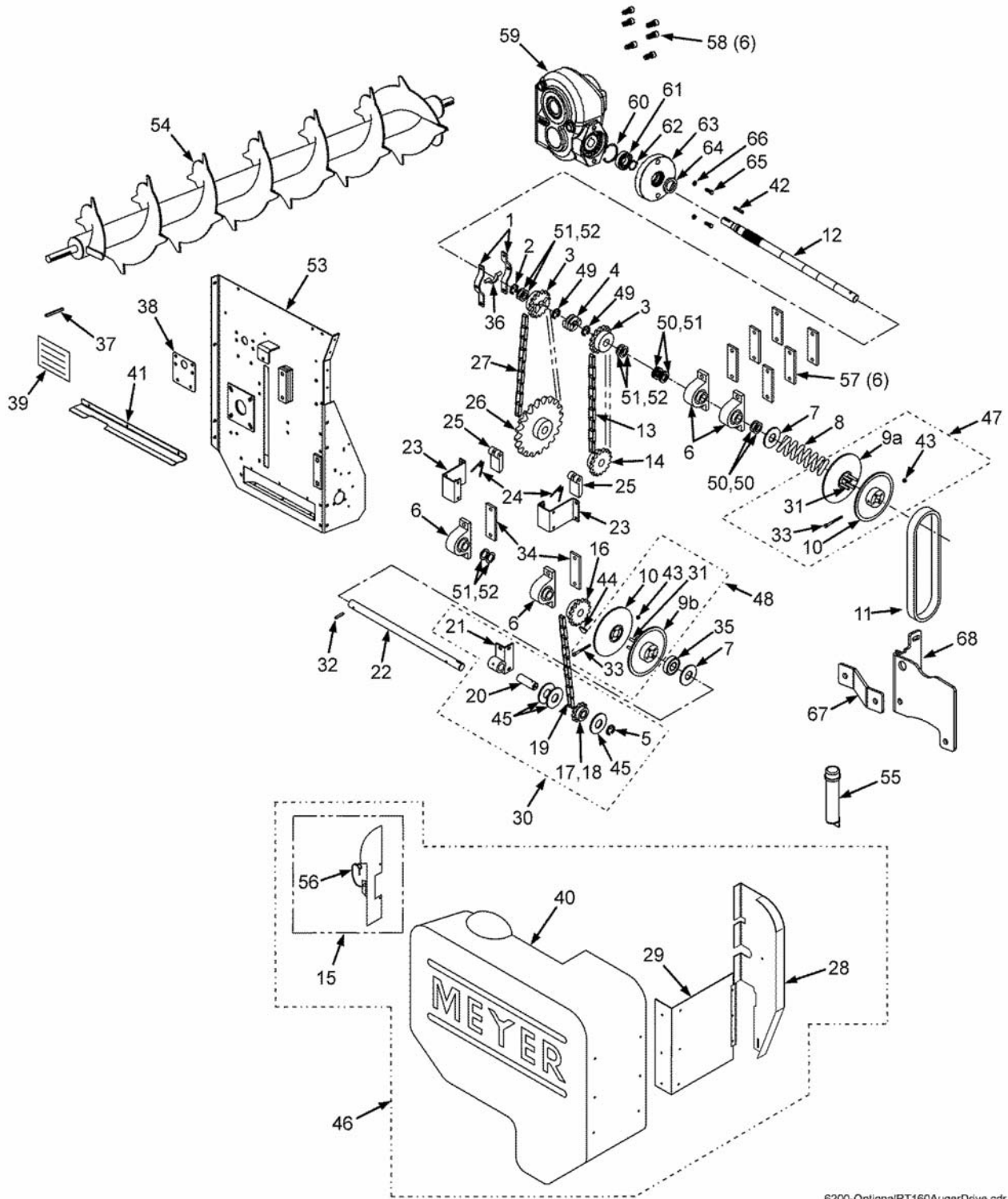
6600-TSS-VariableSpeedClusterDriveWithIOC.cdr

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 (greaseable)
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	823-0003	1	Pin
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	25-0198-ASM	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, 5/16 x 1-3/4
33	851-3118-3.5Z	2	5/16 x 3-1/2 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	19-0002-8		15/16" ID Snap Ring
43	815-3118-Z	2	5/16" Nylon Insert Lock Nut
44	35-0002	1	1/4 x 1-1/4" Woodruff Key
45	808-1.13-1.75-18	A/R	18 Ga. 1-1/8 ID Machine Bushing
46	24-0112-K	1	T700 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" x 3/4"
54	30-0004	1	1/4"-28 90° Grease Fitting
55	33-0044	1	Manual Holder w/Caps
56	25-0197	1	Plastic Cluster Door Catch Bracket
57	43-0013-5	2	Spacer Plate

* These items for RH discharge units only

RT160 VARIABLE SPEED CLUSTER DRIVE W/IOC

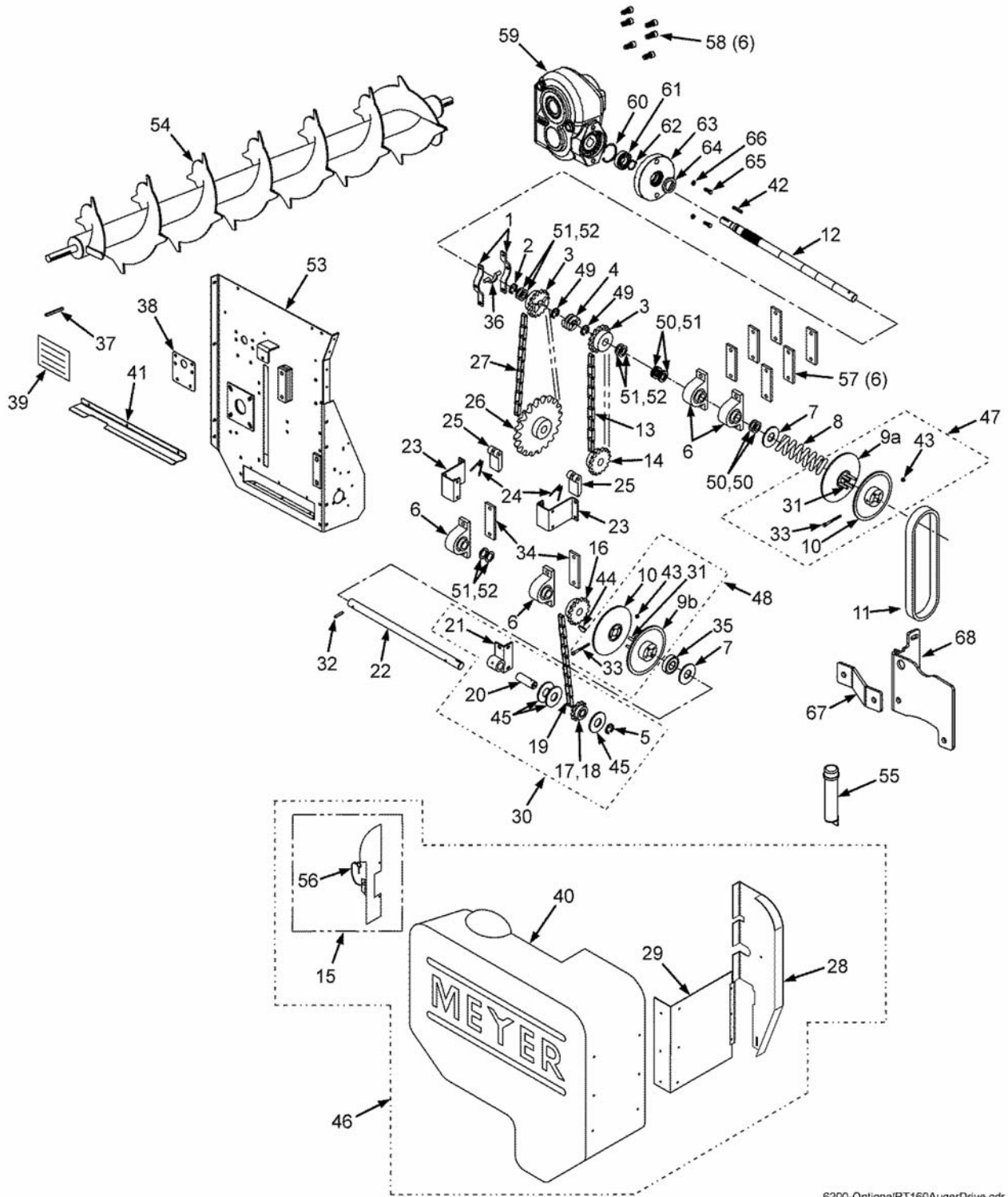


6200-OptionalRT160AugerDrive.cdr

RT160 VARIABLE SPEED CLUSTER DRIVE W/IOC

KEY	PART NUMBER	QTY	DESCRIPTION
1	17-0001	2	Clutch Shifter Yoke
2	33-0012	1	1-1/4" Diameter 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
	14-0032-3G		1-1/4" Bearing Only (Greaseable)
7	828-0125Z	2	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	23-0167	1	RT160 Upper Gearbox Input Shaft
13	11-0057	1	#50-71 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" Bore 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	25-0423	2	RT160 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	111-0050-81	1	#50-81 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 Assembly
31	12-0011-HD	8	Guide Pins, 1/2" Diameter
32	38-0013	1	Roll Pin, 5/16 x 1-3/4"
33	851-3118-3.75Z	2	5/16 x 3-3/4" Bolt

RT160 VARIABLE SPEED CLUSTER DRIVE W/IOC

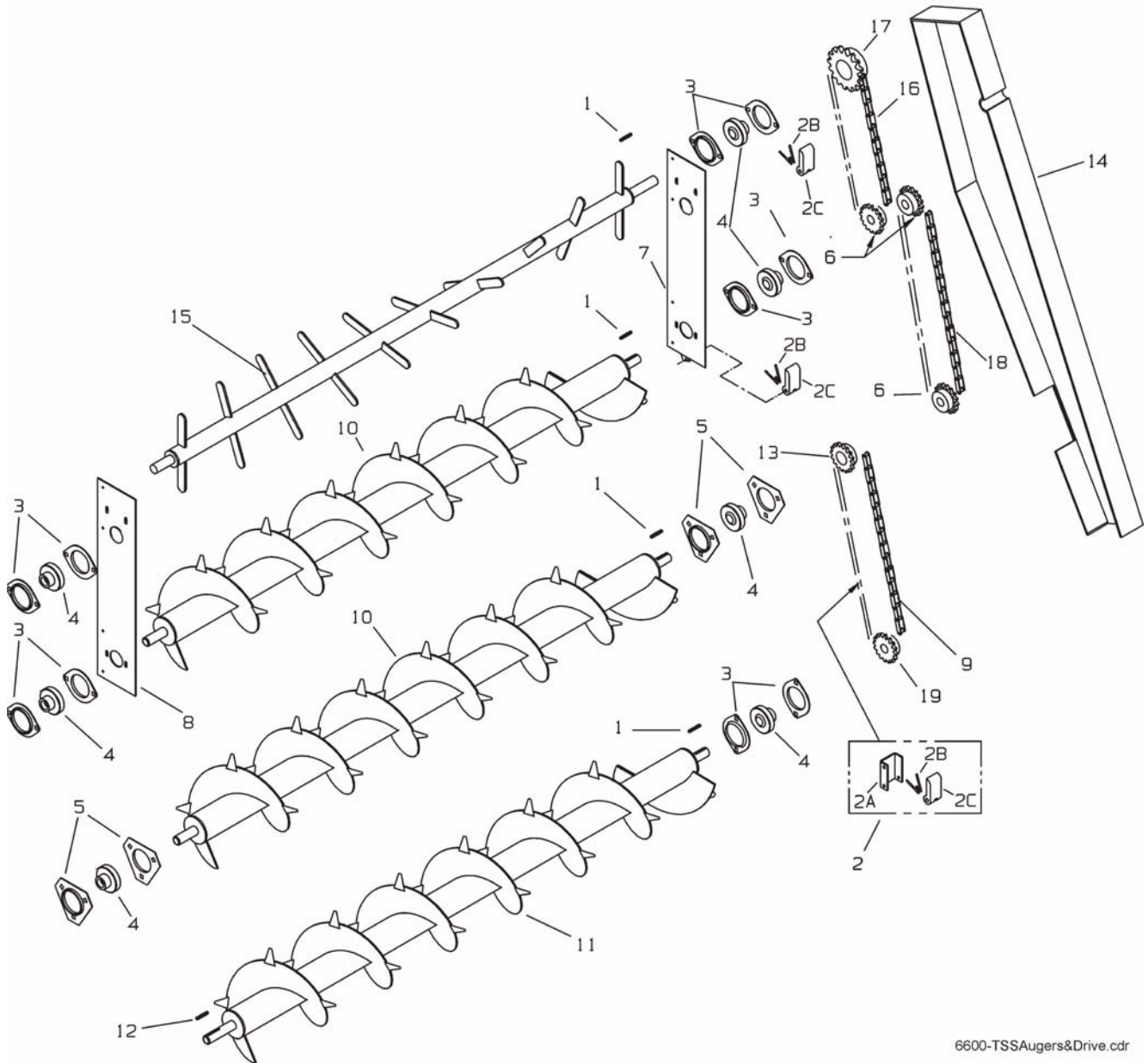


6200-OptionalRT160AugerDrive.cdr

RT160 VARIABLE SPEED CLUSTER DRIVE W/IOC

KEY	PART NUMBER	QTY	DESCRIPTION
34	43-0013	2	Spacer Plate
35	14-0029	1	1-1/4" Thrust Bearing
36	21-0001	1	Collar, Clutch Shifter-Brass
37	135-3131-4-1	1	5/16 x 5/16 x 4" Square Key 1045 W/Square Ends
38	25-0428	1	RT160 Spacer Plate
39	46-0001-124	1	Important Upper & Lower Gearbox Lube Decal
40	24-0112-1	1	RT160 Cluster Shield
41	25-0430	1	Cluster Shield Top Cap - Bolt-On
42	135-2525-1.25-1	1	1/4 x 1/4 x 1.25" Square key 1045 W/Rounded Ends
43	814-3118-Z	2	5/16" Center Lock Nut
44	35-0002	1	1/4 x 1-1/4" 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	10Ga. 1-1/4" ID Machine Bushing
51	808-1.25-1.875-14	A/R	14Ga. 1-1/4" ID Machine Bushing
52	808-1.25-1.88-18	A/R	18Ga. 1-1/4" ID Machine Bushing
53	39-0028	1	RT300/700 Right End Frame Welded Assembly
54	26-0037	1	RT160 Bottom Auger Assembly 5/16" Keyway
	26-0037-FB	1	RT160 Feeder Box Bottom Auger Assembly 5/16" Keyway
55	33-0044	1	Manual Holder W/Cap
56	823-0003	1	Lynch Pin
57	43-0013-.5	6	Spacer Plate
58	831-M12-1.75-25	6	Socket Head Cap Screw M12-1.75 x 25
59	19-0206	1	RT160 Gearbox 8.4:1 W/Gasket
60	33-0053	1	Snap Ring 2.21" Internal
61	14-0308	1	1" Bearing
62	19-0002-8	1	Snap Ring 1" Shaft External
63	19-0206-1-1	1	RT160 Input Housing
64	19-0206-1-2	1	Seal
65	851-M12-1.75-40-Z	1	Hex Head Bolt M12-1.75 x 40MM
66	822-0050-Z	2	1/2" Split Lock Washer
67	25-0476	1	Variable Speed Control Arm Mount Brace
68	25-0475	1	RT160 Speed Control Brace

TSS AUGERS & AUGER DRIVE



6600-TSSAugers&Drive.cdr

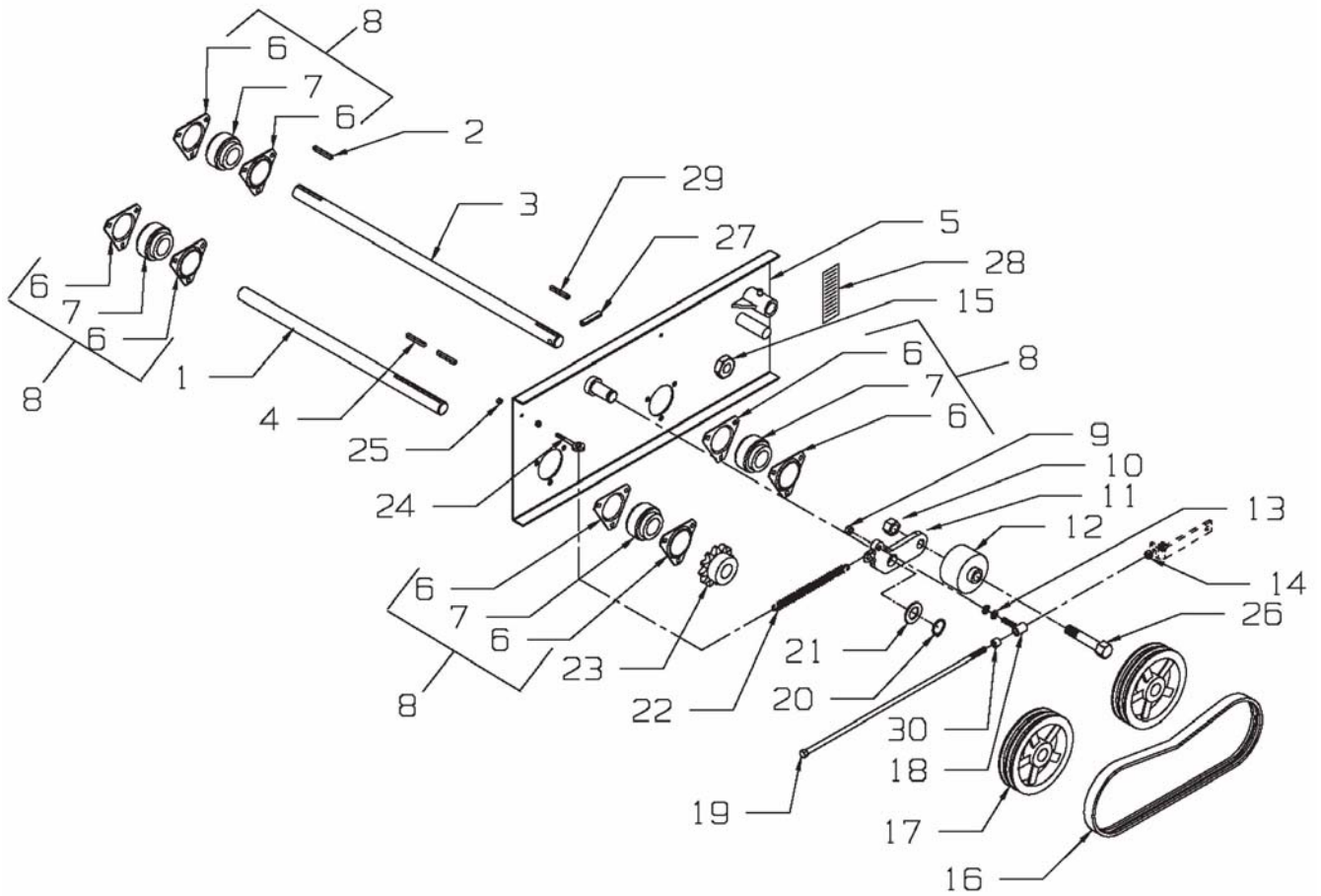
IF YOUR UNIT IS OPTIONAL RH DISCHARGE, OPPOSITE TO ILLUSTRATION, SPECIFY LISTED PART NO. FOLLOWED BY -RH

TSS AUGERS & AUGER DRIVE

KEY	PART NO.	QTY.	DESCRIPTION
1	35-0006	4	Key 3/8 x 1-1/4
2	41-0009	1	Lower Auger Drive Chain Tightener Assembly
2A	25-0047	1	Mounting Bracket
2B	29-0002	2	Spring
2C	41-0002	2	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 4th Auger Option (Prior to SN 11T7201)
	111-0060-83	1	Lower Auger #60-83 Roller Chain 4th Auger Option (SN 11T7201 & Later)
10	26-0034	2	Auger 2nd & 3rd (Prior To Serial #09T7201)
	26-0034-FB	2	Feeder Box Models - 2nd & 3rd Auger (Serial #09T7201 & Later)
11	26-0033	1	Lower Auger 1/4" Key (Prior to Serial #09T7201)
	26-0033-FB	1	Feeder Box Lower Auger 1/4" Key (Feeder Box Models: Prior To Serial # 09T7201)
	26-0036	1	Lower Auger 5/16" Key (Serial #09T7201 & Later)
	26-0036-FB	A/R	Feeder Box Lower Auger 5/16" Key (Feeder Box Models: Serial #09T7201 & Later)
	26-0037-FB	1	RT160 Feeder Box Bottom Auger Assembly 5/16" Keyway (See Page 48)
12	35-0030-H	1	Key 5/16x1-1/4" Hardened (Prior to SN 11T7201)
	135-31W-1.25-1	1	Woodruff Key 5/16" x 1-1/4" Hardened (SN 11T7201 & 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	Sprocket 60B15, 1-1/4" Bore, 3/8" Keyway, 4th Auger Option, (Prior to SN 11T7201)
	110-60B20-1.25-1	1	Sprocket 60B20 1-1/4" Bore, 3/8" Keyway, 4th Auger Option (SN 11T7201 and Later)

INDEPENDENT OUTFEED CLUTCH DRIVE

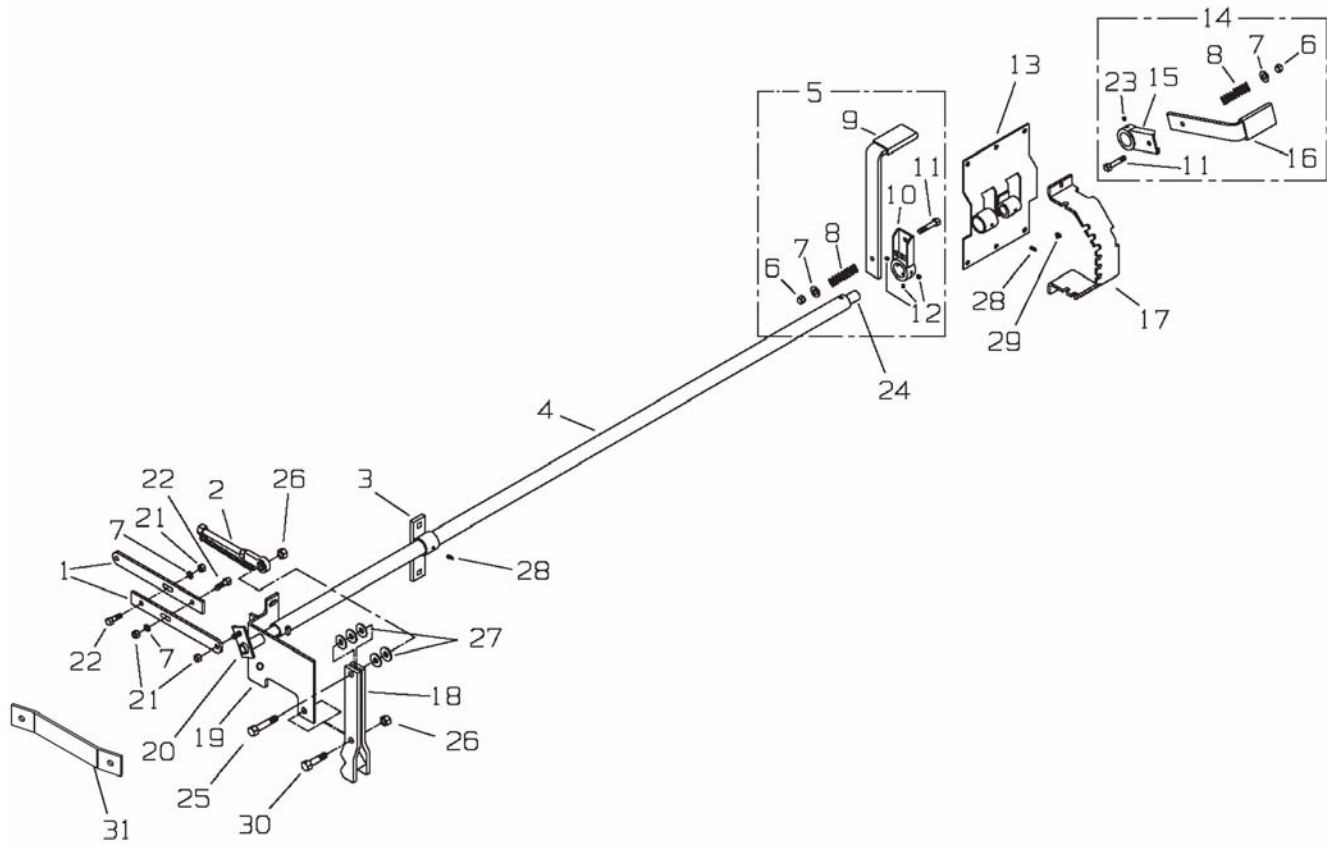
"STOP" & "RUN" CONTROL RELATED PARTS



INDEPENDENT OUTFEED CLUTCH DRIVE
“STOP” & “RUN” CONTROL RELATED PARTS

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

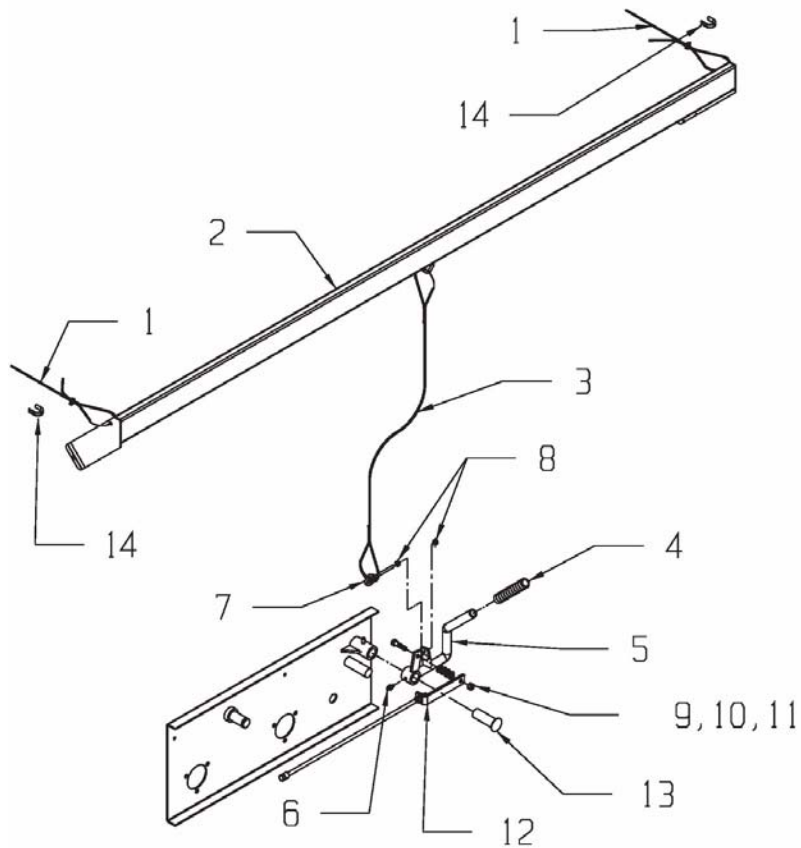


IF YOUR UNIT IS OPTIONAL RH DISCHARGE, OPPOSITE TO ILLUSTRATION, SPECIFY LISTED PART NO. FOLLOWED BY -RH

VARIABLE SPEED SHIFTER CONTROLS AND EMERGENCY STOP CLUTCH RELATED PARTS

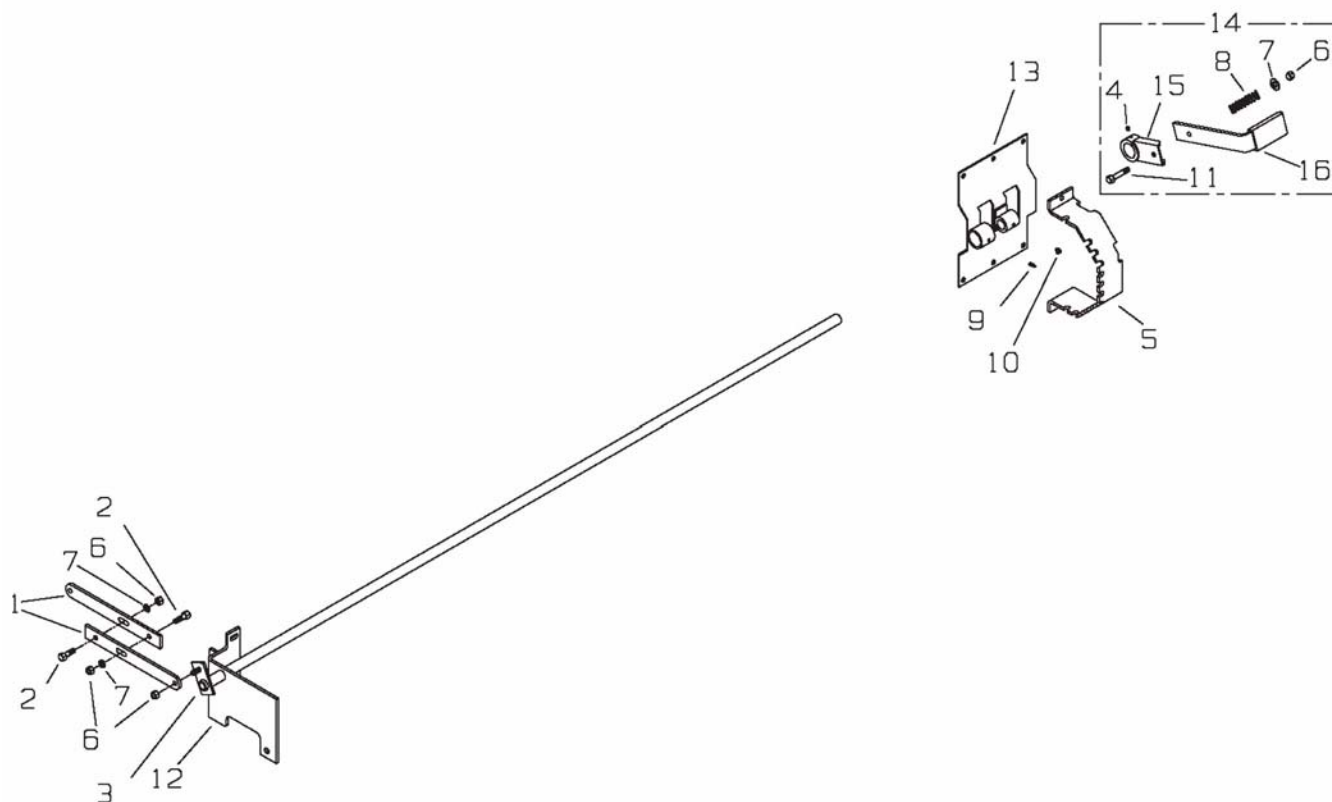
KEY	PART NO.	QTY.	DESCRIPTION
1	42-0022-1	2	Linkage Bar
2	42-0021	1	Bolt w/chain& Eyelet
3	42-0013	1	Pipe Guide Bracket Assy.
4	16-0031	1	Speed Control Pipe-Left Hand Unload
	16-0031-RH	1	Speed Control Pipe-Right Hand Unload
5	16-0029	1	Speed Control Handle Assy.
6	814-3816-Z	2	3/8 Locknut (Zinc)
7	805-0038- 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	3/8 x 2 Machine Bolt
12	827-3118-.38	3	5/16 x 3/8 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-Left Hand Unload
	25-0154-RH	1	Control Quadrant-Right Hand Unload
18	25-0151	1	Control Assy.
19	25-0157	1	Speed Control Bracket-Left Hand Unload
	25-0157-RH	1	Speed Control Bracket-Right Hand Unload
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 3/8-16 x 1.25
23	38-0003	1	Roll Pin
24	16-0032	1	Range Control Pipe Assy.-Left Hand Unload
	16-0032-RH	1	Range Control Pipe Assy.-Right Hand Unload
25	851-5013-2.5Z	1	1/2-13 x 2-1/2" Bolt
26	814-5013-Z	2	1/2-13 Lock Nut
27	828-0050-Z	5	1/2" Washer
28	30-0001	2	1/4" Grease Zerk
29	30-0003	1	1/4" 45° Grease Zerk
30	851-5013-2Z	1	Bolt 1/2 x 2

INDEPENDENT OUTFEED CLUTCH



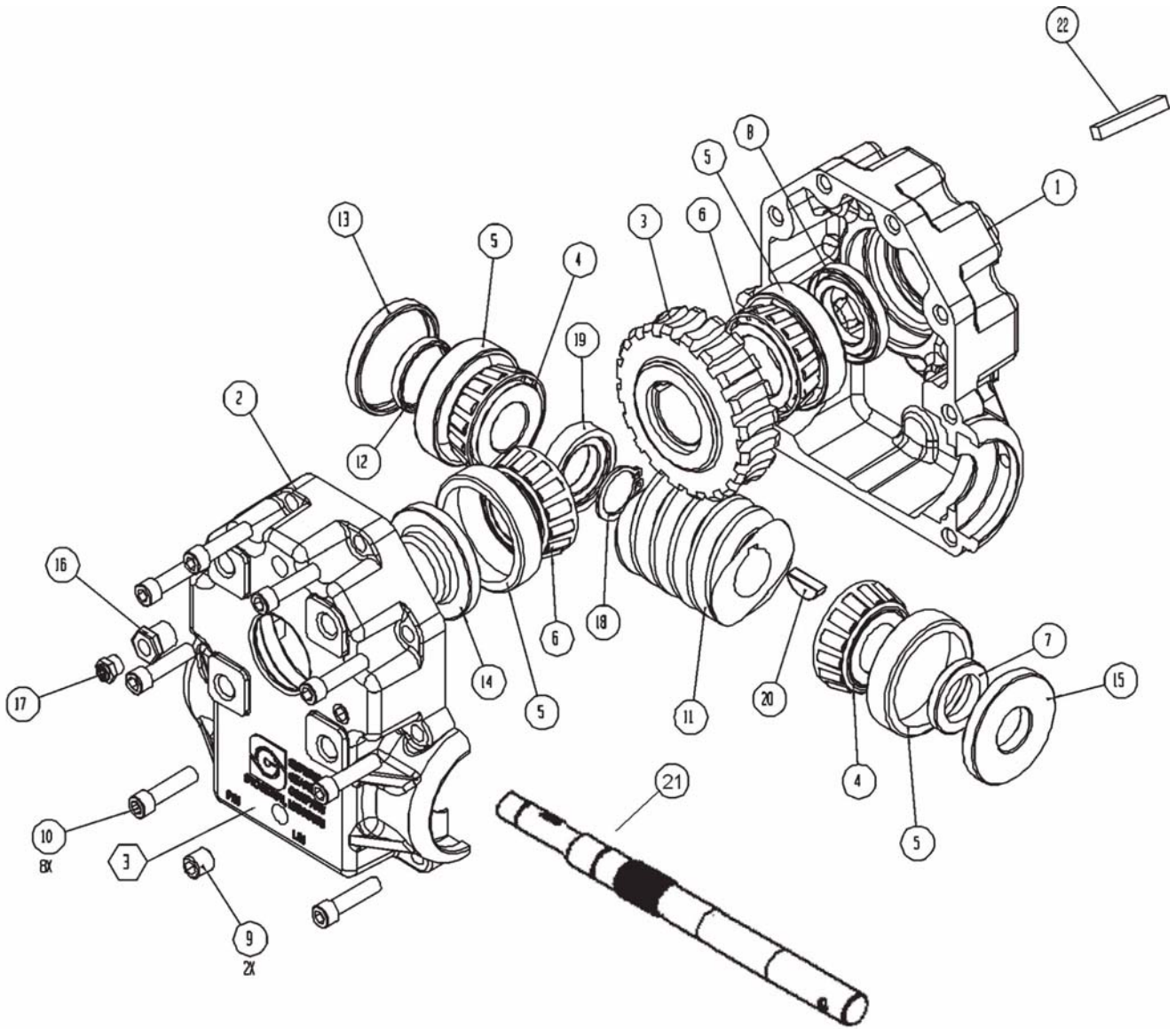
KEY	PART NO.	QTY.	DESCRIPTION
1	36-0001	2	Cables, Emergency Stop
2	16-0010	1	Push Bar, Emergency Stop, Control
3	36-0002	1	Cable, Emergency Stop Front
4	51-0003	1	7/8" ID Rubber Grip Only
5	16-0044	1	I.O.C. Handle - Left Hand Unload
	16-0044-RH	1	I.O.C. Handle - Right Hand Unload
6	30-0001	1	1/4"-28 Straight Grease Fitting
7	811-2520-1Z	1	1/4"-20 x 1" Eye Bolt - Zinc
8	814-2520-Z	1	1/4"-20 Indented Lock Nut
9	851-3816-1.5Z	1	3/8"-16 x 1-1/2" 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 3/8-16 x 1.25
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-Left Hand Unload
	25-0154-RH	1	Control Quadrant-Right Hand Unload
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	3/8 x 2 Machine Bolt
12	25-0157	1	Speed Control Bracket-Left hand Unload
	25-0157-RH	1	Speed Control Bracket-Right hand Unload
13	25-0158	1	Quadrant Bracket Wldmt
14	16-0030	1	Range Control Handle Assy.
15	42-0018	1	Range Control Wldmt
16	16-0028	1	Range Control Handle

UPPER GEAR BOX WITH INPUT SHAFT ASSEMBLY 10:1



6200-UpperGearBox.cdr

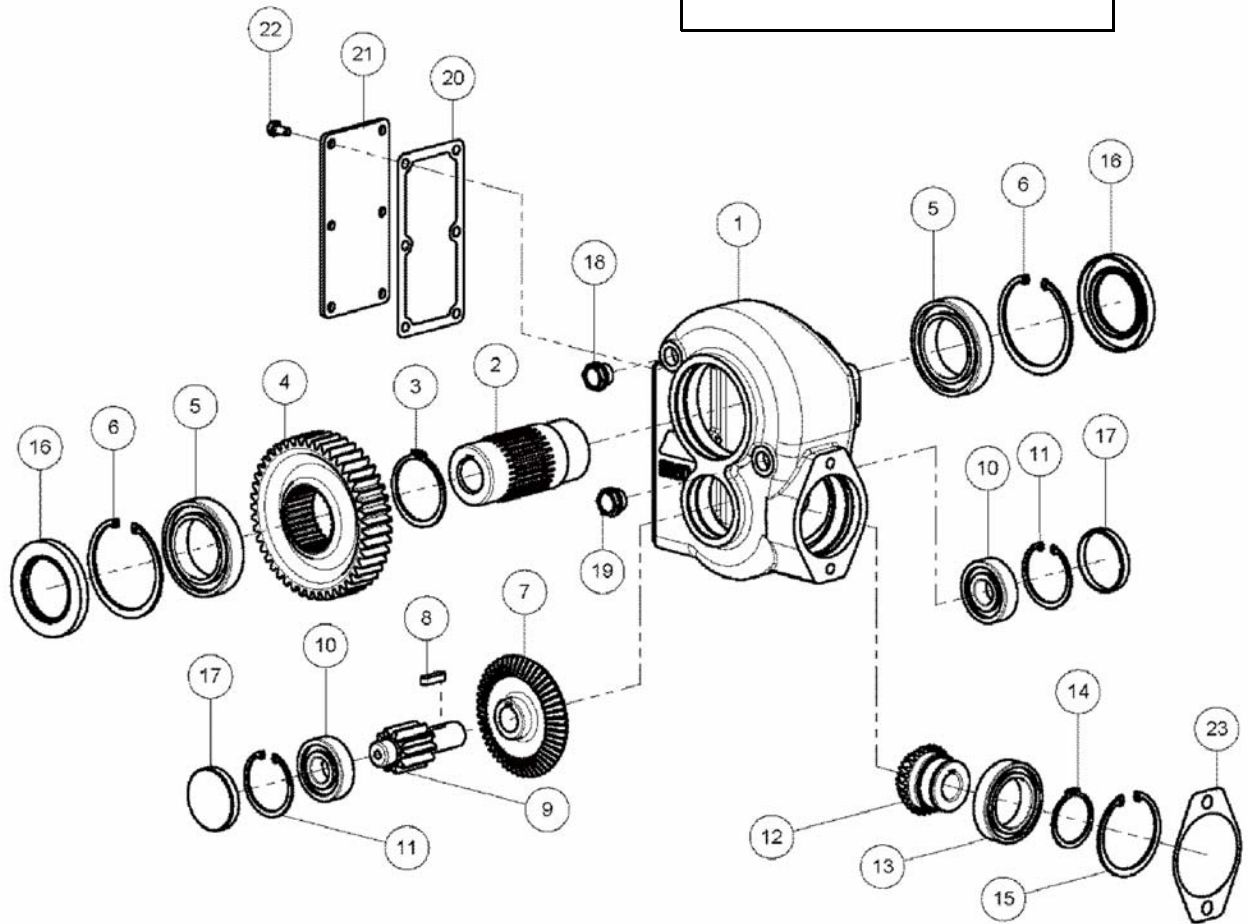
USE ONLY SYNTHETIC ISO 460 GEAR OIL AGMA 7 (NON EP) OR EQUIVALENT. DO NOT USE GREASE FOR LUBRICANT.

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	Through Hole Casting
3	19-0058-GS	1	10:1 Gear Set, 4140 Gear, Bronze Worm, 5/16" Key (Prior to SN 12T7205)
	19-0058-4-2-4140	1	10:1 4140 Gear, 5/16" Key (SN 12T7205 & 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	A/R	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 12T7205)
	19-0058-4-3-BR	1	Bronze Rolled Worm Gear 10:1 (SN 12T7205 & 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" x 1-1/4" (Superior Split Housing) (Prior to SN 09T3201)
	35-0030-H-SK	1	Key, 1/4" x 5/16" x 1-1/4" Hardened (w/Updated Gear or GearBox) (Prior to SN 09T3201)
	35-0030-H	1	Key, 5/16" x 5/16" x 1-1/4" Hardened (SN 09T3201 - 11T3222)
	135-31W-1.25-1	1	Key, Woodruff 5/16 x 1-1/4" Hardened (11T3223 & Later)

19-0206
RT160 UPPER GEARBOX ASSEMBLY

USE ONLY 80W90 OIL

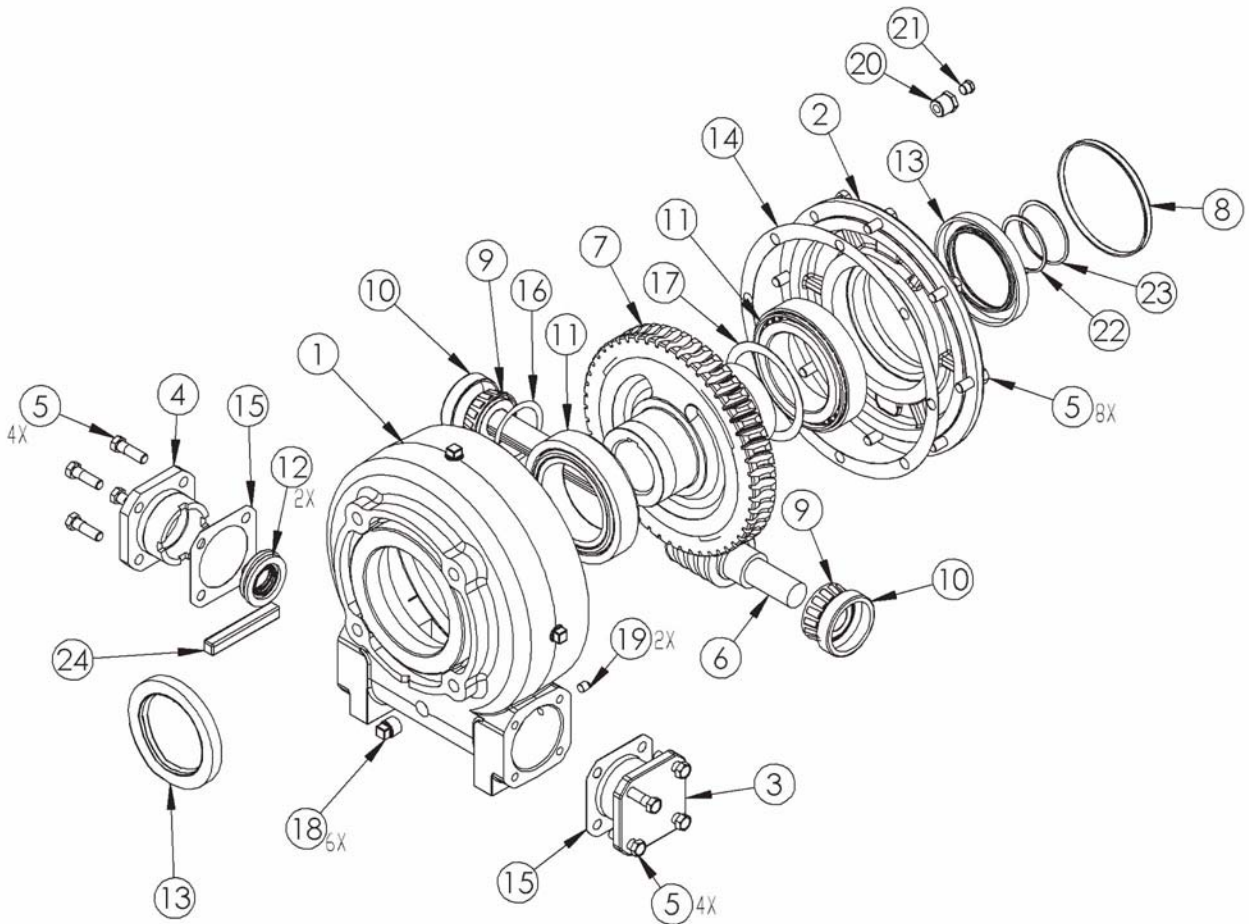


**19-0206
RT160 UPPER GEARBOX ASSEMBLY**

KEY	PART NUMBER	QTY	DESCRIPTION
1	19-0206-1	1	Housing
2	19-0206-2	1	1-1/4" Hub
3	19-0206-3	1	Retaining Ring
4	19-0206-4	1	Gear
5	19-0206-5	2	Bearing
6	19-0206-6	2	Retaining Ring
7	19-0206-7	1	Gear
8	19-0206-8	1	Key
9	19-0206-9	1	Pinion
10	19-0206-10	2	Bearing
11	19-0206-11	2	Retaining Ring
12	19-0206-12	1	Pinion
13	619-0001-18	1	Bearing
14	619-0001-19	1	Retaining Ring
15	619-0001-16	1	Retaining Ring
16	19-0206-13	2	Oil Seal
17	19-0206-14	2	Plug
18	19-0203-16	1	Oil Breather Plug
19	19-0203-14	1	Oil Level Indicator
20	19-0206-15	1	Gasket
21	19-0206-16	1	Cover
22	619-0001-27	1	M8 x 16 Hex Head Bolt
23	19-0203-17	1	Gasket

**19-0151 LOWER GEARBOX ASSEMBLY (LESS SHAFT)
6600 SERIES (LEFT HAND UNLOAD)**

**19-0151-RH LOWER GEARBOX ASSEMBLY (LESS SHAFT)
6600 SERIES (RIGHT HAND UNLOAD)**



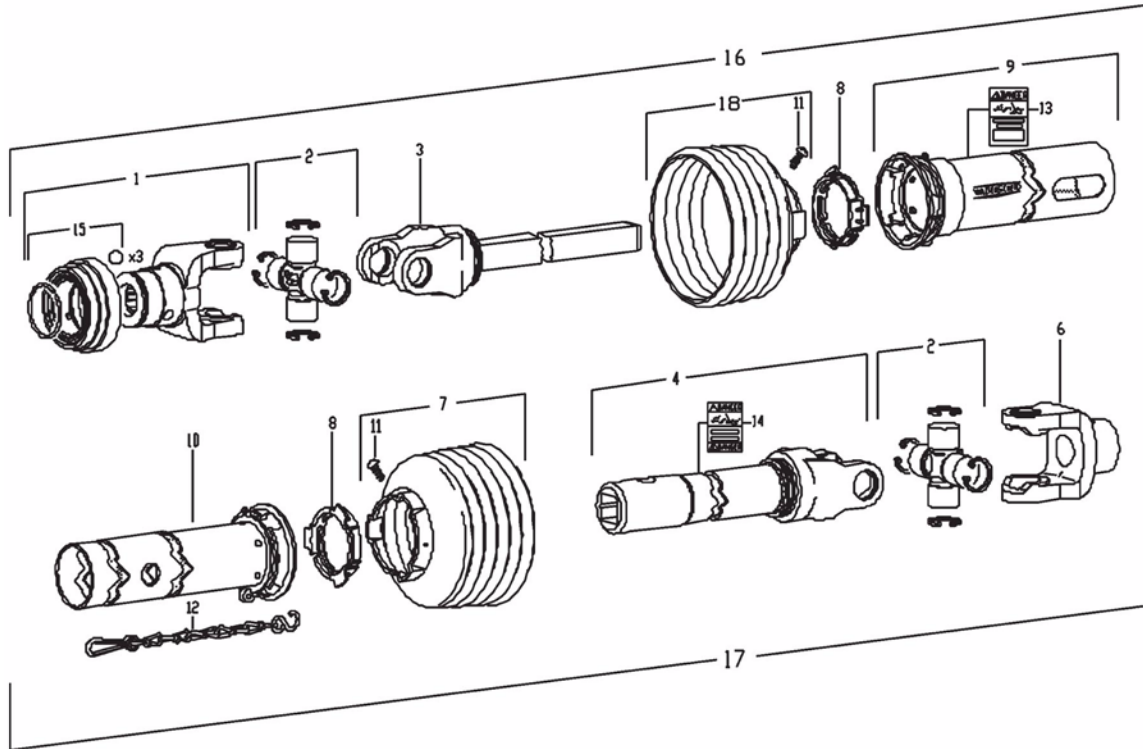
**Use #85W140 wt. Gear Lube Oil ONLY.
DO NOT USE GREASE FOR LUBRICANT.**

**19-0151 LOWER GEARBOX ASSEMBLY (LESS SHAFT)
6600 SERIES (LEFT HAND UNLOAD)**

**19-0151-RH LOWER GEARBOX ASSEMBLY (LESS SHAFT)
6600 SERIES (RIGHT HAND UNLOAD)**

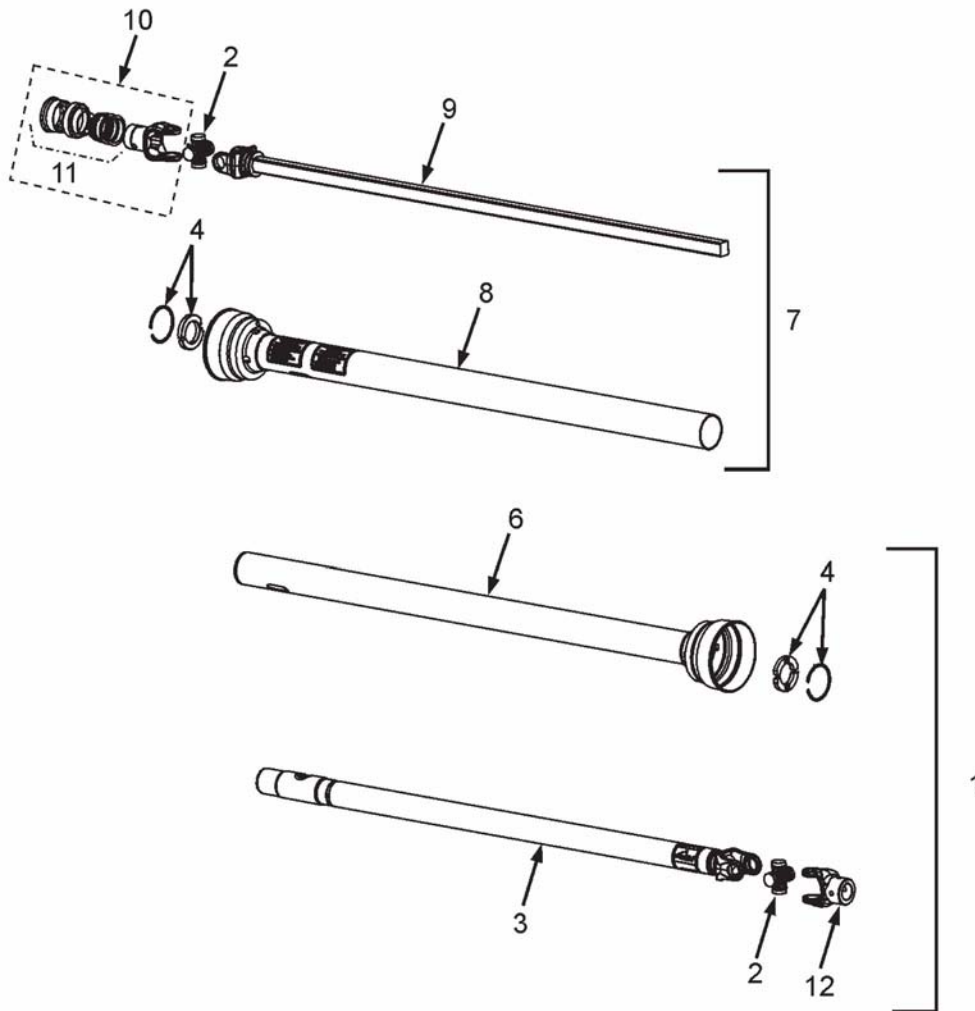
KEY	PART NO.	QTY.	DESCRIPTION
1	19-0151-1	1	Housing
2	19-0151-2	1	Cover
3	19-0051-3	1	Endcap (Closed)
4	19-0051-4	1	Endcap (Open)
5	851-3816-1Z	16	3/8-16x1" Machine Bolt Grade 5
6	19-0151-4	1	Input Shaft / Worm Assy.
7	19-0151-5	1	Gear
8	19-0151-6	1	Cover Cap
9	19-0151-7	2	Input Bearing Cone
10	19-0051-8	2	Input Bearing Cup
11	19-0151-7	2	Output Bearing Cup/Cone
12	19-0051-12	2	Input Shaft Seal
13	19-0151-8	2	Output Seal
14	19-0051-16	1	Cover Gasket
15	19-0051-17	2	Endcap Gasket
16	19-0051-18	A/R	Input Shim
17	19-0151-9	A/R	Output Shim
18	19-0151-10	6	Plug, 1/2-14 NPT
19	19-0151-11	2	Plug, 1/8-27 NPT
20	19-0057-23	1	Bushing, 3/8-18 / 1/8-27
21	19-0057-24	1	Plug, 5 PSI
22	19-0151-12	1	Output Shaft Retaining Ring
23	19-0151-13	1	Hollow Bore Retaining Ring
24	19-0157-18	1	Output Shaft Key
NS	48-0044	88oz.	Lube, E85W140

#18-0117 UNIVERSAL JOINT TELESCOPING ASSEMBLY



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	1/4" 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

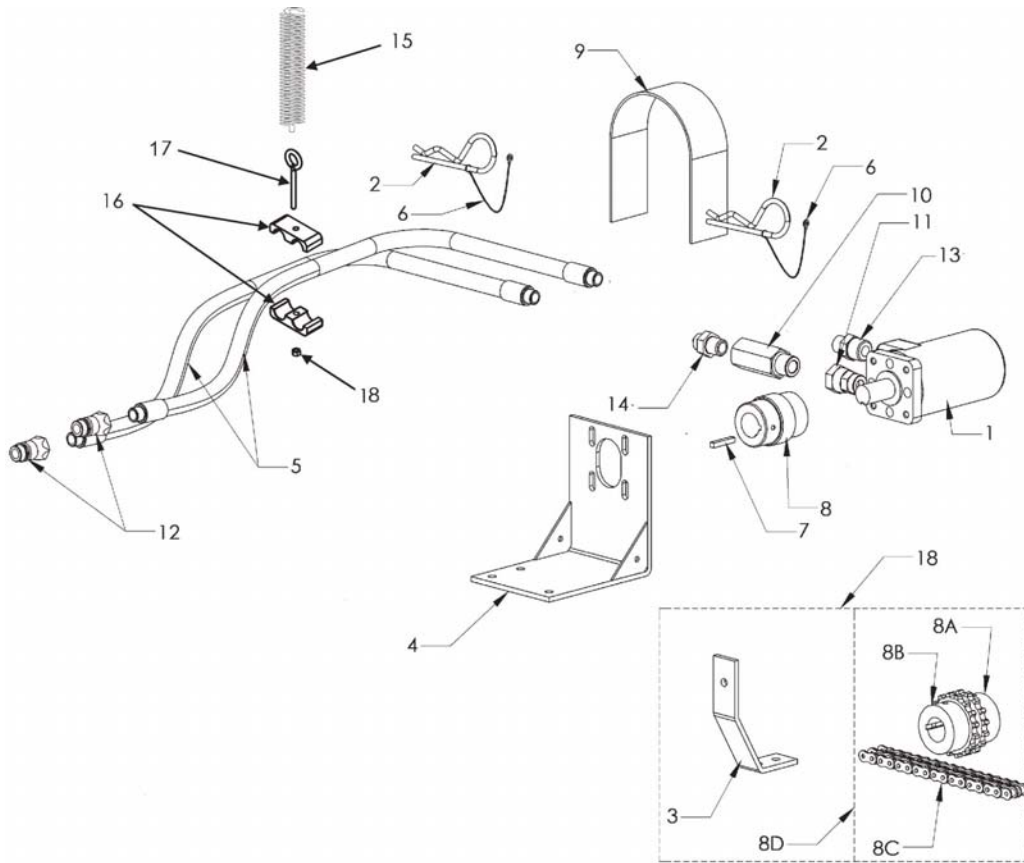
#18-0017
12R UNIVERSAL JOINT TELESCOPING ASSEMBLY W/GUARD
2013 MODEL YEAR AND LATER



3500-TSS-TelescopingAssembly.cdr

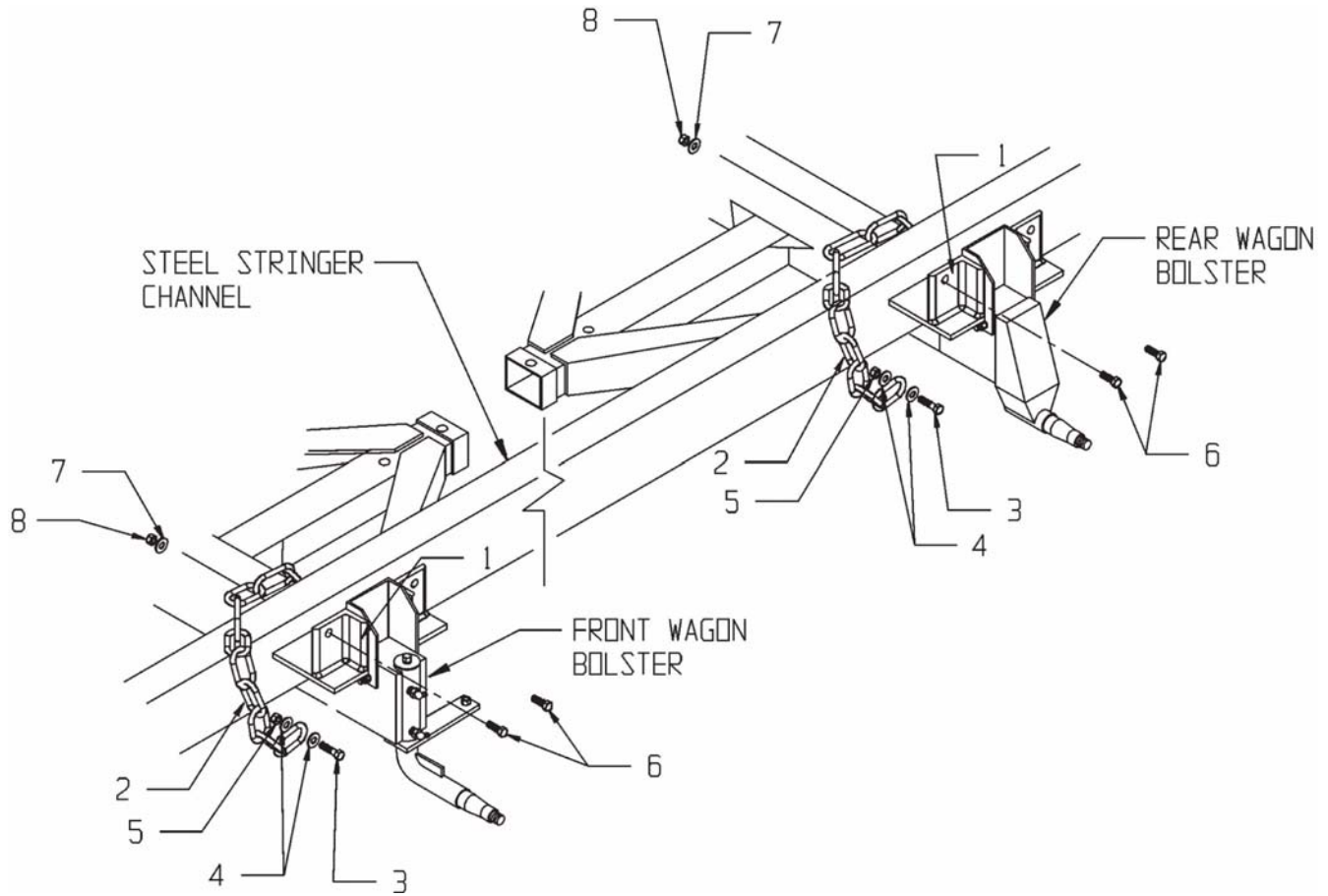
KEY	PART NO.	QTY.	DESCRIPTION
	18-0017	1	Joint, 12R Universal PTO Assembly
1	18-0017-4	1	Joint & Tube Half W/Guard (Implement Half)
2	18-0017-9	2	12R Cross & Bearing Kit
3	18-0017-6	1	Yoke, Tube & Slip Sleeve
4	18-0017-10	2	Nylon Repair Kit
6	18-0017-12	1	Inner Guard W/Bearing & Retainer
7	18-0017-1	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" Kw, W/RP Hole

OPTIONAL FRONT 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 Assembly
5	55-0034	2	1/2 x 132" Long Hydraulic Hose (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 SN)
8A	37-0013-1	1	Shaft Coupler Sprocket-1" Bore (SN 07 & Later)
8B	37-0017-1	1	Shaft Coupler Sprocket 1-1/4" Bore (SN 07 & Later)
8C	37-0013-2	1	#50 Double Coupler Chain
8D	37-0019	A/R	Chain Coupler Assembly Complete (SN 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	2	Male Hydraulic Coupler (Pull Type Only)
13	55-0085	1	1/2" X 7/8" ORB Straight Fitting
14	55-0044	1	3/4" X 1/2" Bushing
15	29-0029	1	Hydraulic Hose Tender Spring Kit with Sleeve & Hardware
16	55-0033	1	1/2" Hose Support Clamp
17	811-3118-2Z	1	5/16" Eye Bolt
18	810-3118-Z	1	5/16" SpinLock Nut

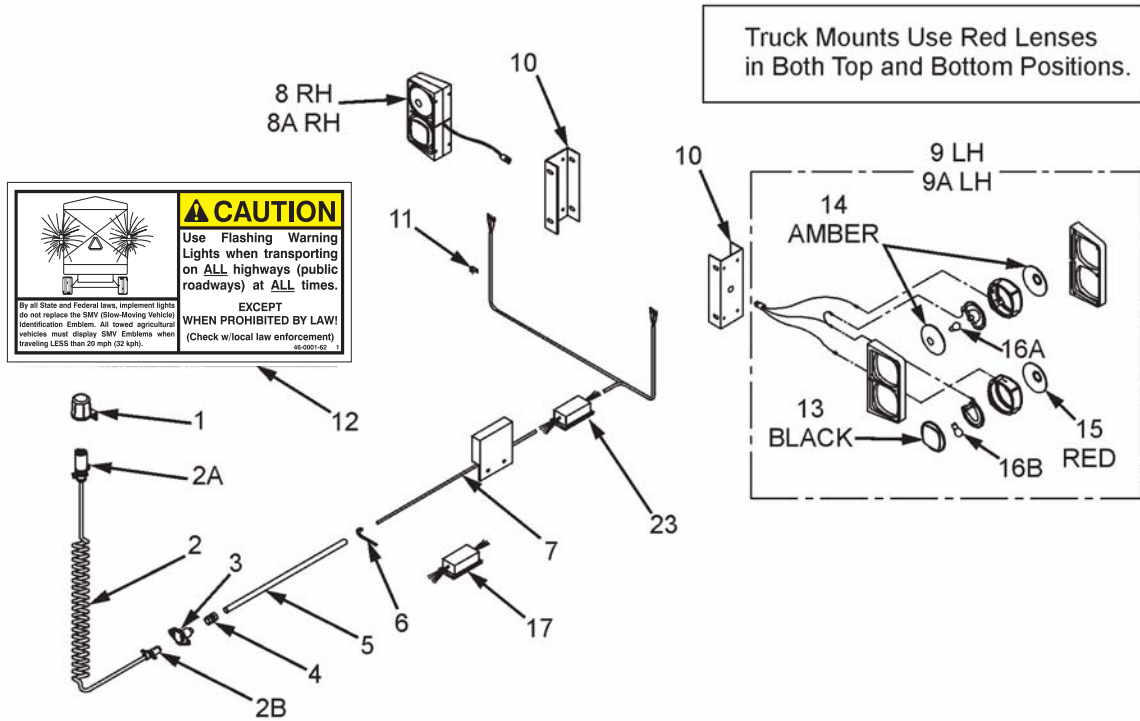
#52-0003S STEEL STRINGER TIE DOWN KIT



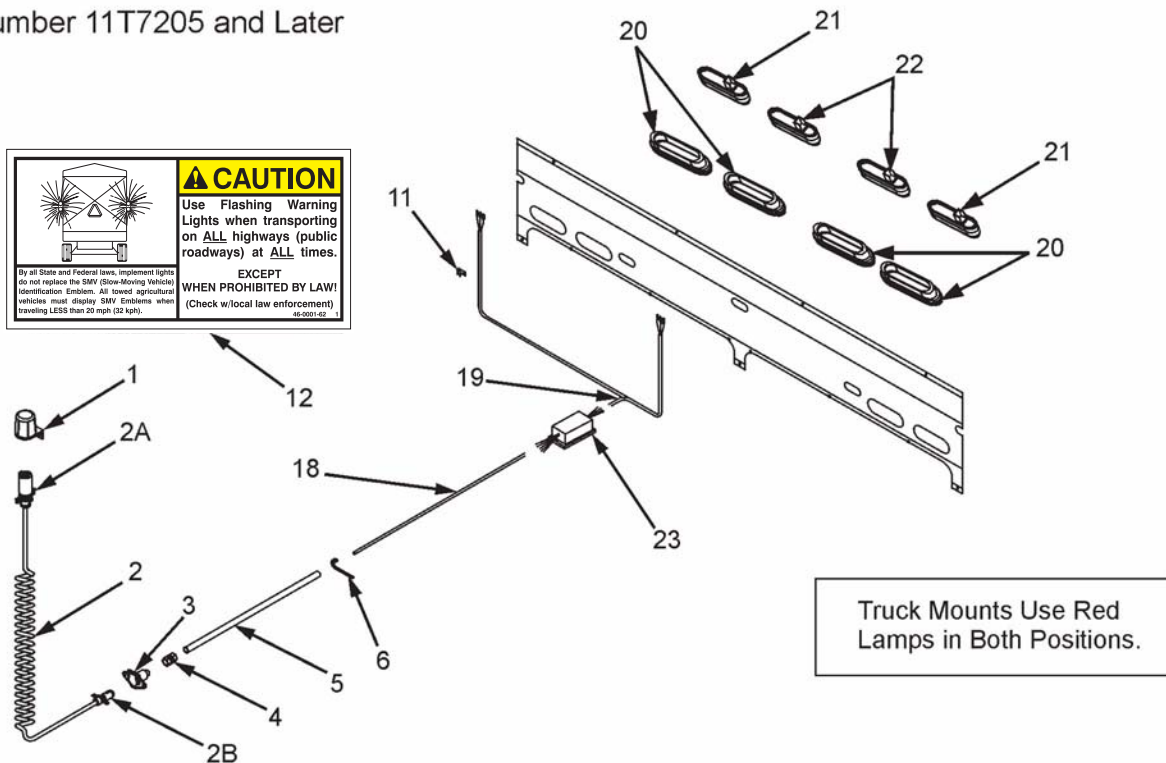
KEY	PART NO.	QTY.	DESCRIPTION
	52-0003S	1	Tie Down Kit (Steel Stringers)
1	25-0084	4	Bracket
2	52-0003-1	4	51" Standard Tie Down Chain
	75-0341-4-HD	4	61" Heavy Duty Tie Down Chain for Riser Option
3	851-3816-1.5Z	4	Bolt, Hex Machine-3/8 x 1-1/2
4	805-0038-Z	8	3/8 Flat Washer
5	815-3816-Z	4	3/8 Lock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

#52-0019-PKG HIGHWAY LIGHT PACKAGE KIT

Prior to Serial Number 11T7205



Serial Number 11T7205 and Later

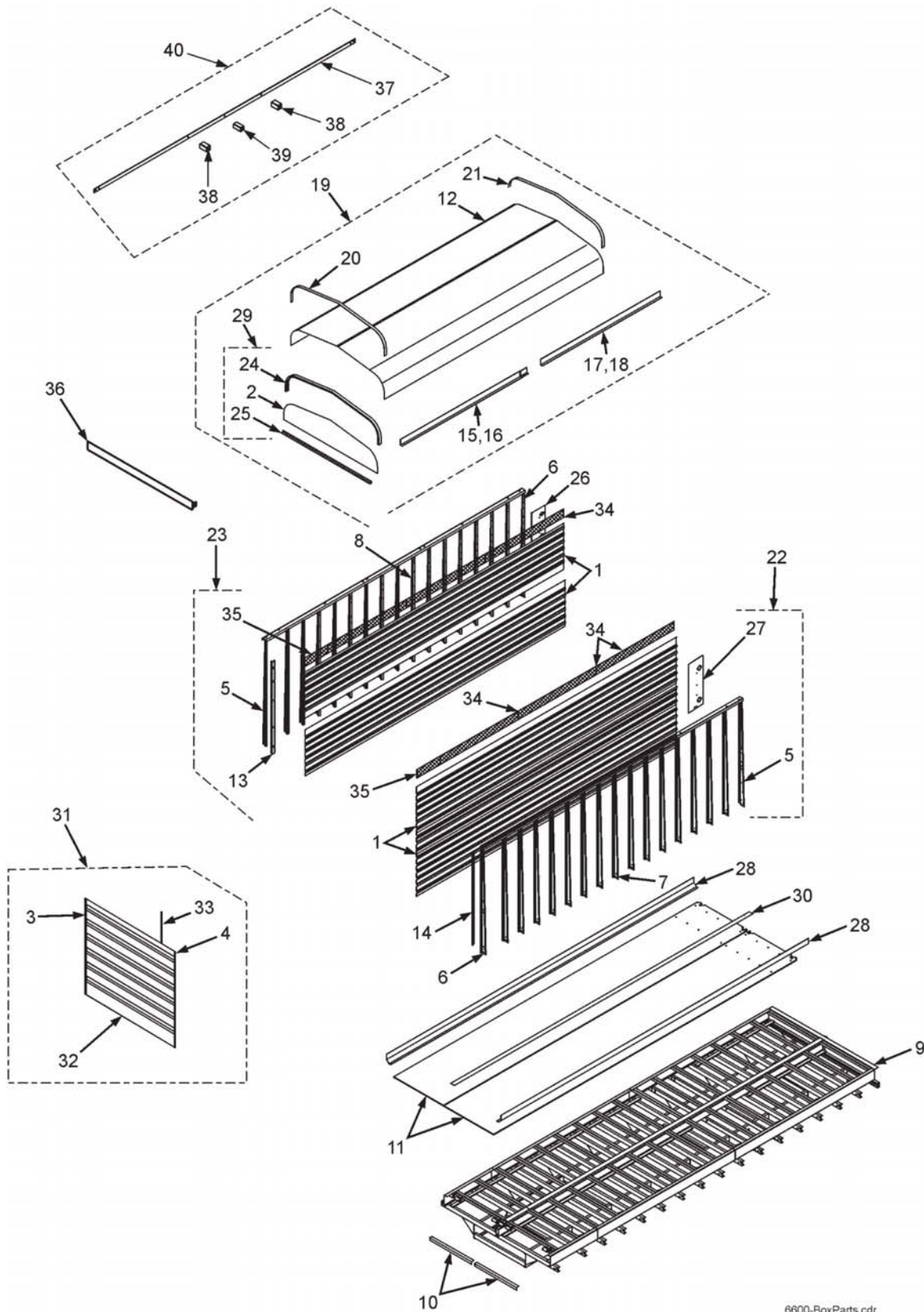


6600-HighwayLightPackageKit.cdr

#52-0019-PKG HIGHWAY LIGHT PACKAGE KIT

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	52-0019-LED-PKG	1	LED Light Package Update
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 09T7201)
	56-0030-3	2	Bezel Blank, Black (Fit Over Housing) (SN 09T7201 & Later)
14	56-0001-1	4	Amber Lens, Black (Fit Inside Housing) (Prior to SN 09T7201)
	56-0030-1	4	Amber Lens, Black (Fit Over Housing) (SN 09T7201 & Later)
15	56-0001-2	2	Red Lens, Black (Fit Inside Housing) (Prior to SN 09T7201)
	56-0030-2	2	Red Lens, Black (Fit Over Housing) (SN 09T7201 & Later)
16A	56-0001-5	2	#1156 Single Filament Bulb
16B	56-0001-4	2	#1157 Dual Filament Bulb
17	56-0028	1	Tail Light Converter (Truck Mount Only)
18	56-0037	A/R	4 Conductor Trailer Cable
19	56-0083	1	LED Light Y-Harness
20	56-0082	4	6" Oval Grommet
21	56-0081	2	6" Oval Amber LED Light
22	56-0080	2/4	6" Oval Red LED Light
23	56-0032-1	1	AG Module W/Connectors
	56-0084	1	AG Module W/Connectors (LED Light Harness)

6600 SERIES BOX PARTS 1 OF 2

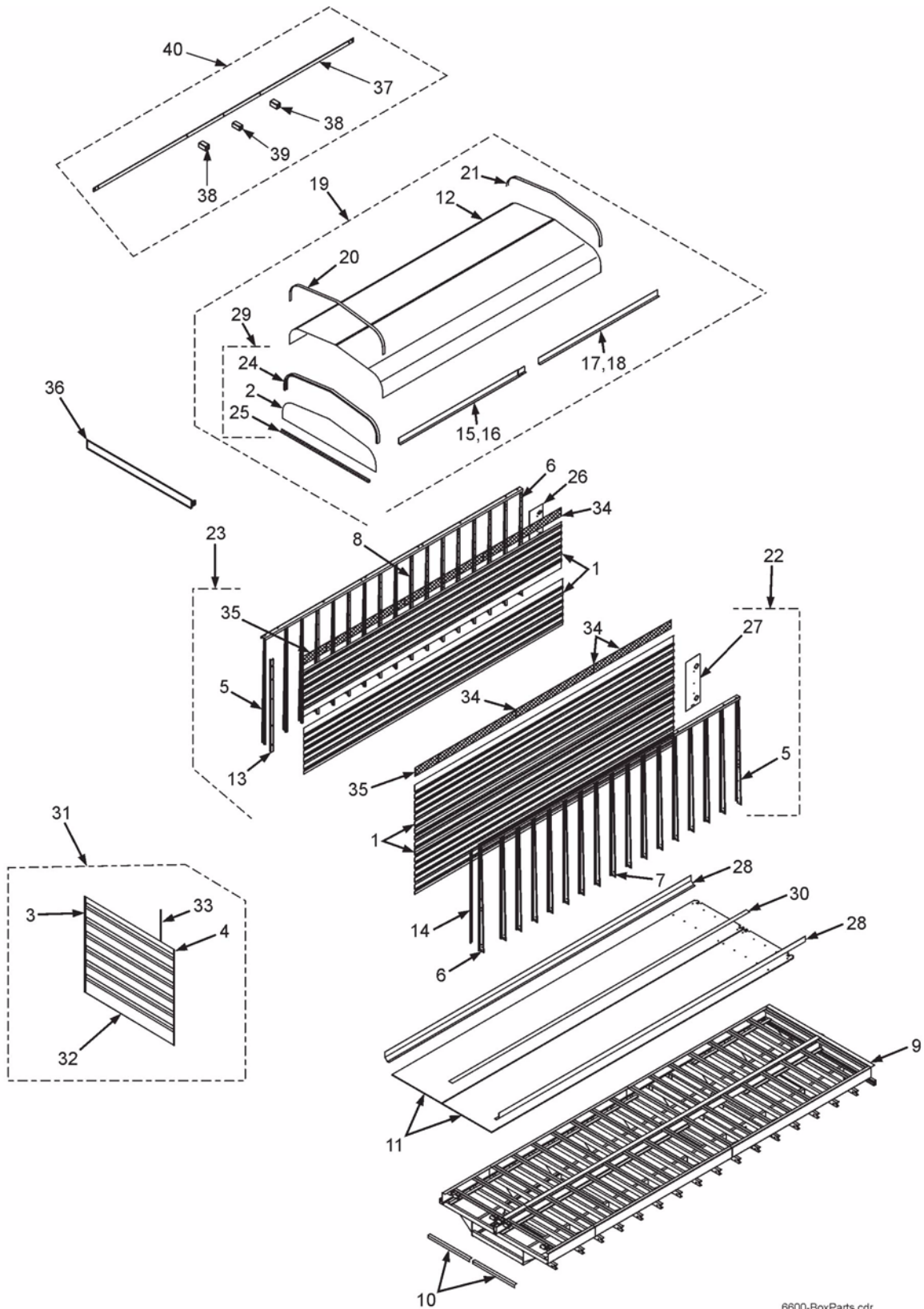


6600-BoxParts.cdr

6600 SERIES BOX PARTS 1 OF 2

KEY	PART NO.	DESCRIPTION
1	761II-40.75-20	20' Side Panel-(6620)
	761II-40.75-22	22' Side Panel-(6622)
	761II-40.75-24	24' Side Panel-(6624)
2	100-9990-15-4	Back Roof Panel, 20-3/8 x 86 Painted
3	100-9990-17-8-12	HD TSS HS Back Gate Frame Only
4	761II-40.75-85	Galv Panel, Painted, 85"
5	100-9990-8-2-12	Right Front /Left Rear Upright 10GA. x 94-1/2"
6	100-9990-8-1-12	Left Front/Right Rear Upright 10GA. x 94-1/2"
7	100-9990-8-6-12	Right Center Upright 10 GA. x 94-1/2"
8	100-9990-8-5-12	Left Center Upright 10 GA. x 94-1/2"
9	100-7007	Bottom Frame Complete 6620 (10" Stringers)
	100-7007-TRUCK	Bottom Frame Complete 6620 (6" Stringers)
	100-7005	Bottom Frame Complete 6622 (10" Stringers)
	100-7005-TRUCK	Bottom Frame Complete 6622 (6" Stringers)
	100-7006	Bottom Frame Complete 6624 (10" Stringers)
	100-7006-TRUCK	Bottom Frame Complete 6624 (6" Stringers)
10	25-8203-1	Floor Cover
11	709-48-254.5	Floor Panel 20' (Superslick) (2-Required)
	709-48-275.5	Floor Panel 22' (Superslick) (2-Required)
	709-48-254.5	Floor Panel 20' (Superslick) (2-Required)
	802T-3118-1.25SS	5/16-18 x 1-1/4" Truss Head Stainless Machine Screw
	802T-3118-3SS	5/16-18 x 3" Truss Head Stainless Machine Screw
	814-3118-Z	5/16-18 Indented Locknut
12	100-9990-51-1	Roof Panel Painted 21'-2" (6620)
	100-9990-54-1	Roof Panel Painted 23"3" (6622)
	100-9990-145	Roof Panel, Black, 25'-2" (6624)
13	100-9990-16-L-12	End Gate Cap, LH
14	100-9990-16-R-12	End Gate Cap, RH
15	100-9990-70	R. Rear Roof Angle (Illustrated) (6620/6622)
	100-9990-97-4	R. Rear Roof Angle (Illustrated) (6624)
16	100-9990-69	L. Rear Roof Angle (Not Illustrated) (6620/6622)
	100-9990-97-3	L. Rear Roof Angle (Not Illustrated) (6624)
17	100-9990-61	R. Front Roof Angle (Illustrated) (6620)
	100-9990-49-2	R. Front Roof Angle (Illustrated) (6622/6624)
18	100-9990-60	L. Front Roof Angle (Not Illustrated) (6620)
	100-9990-49-1	L. Front Roof Angle (Not Illustrated) (6622/6624)
19	100-9990-52	6620, Roof Assy. Complete
	100-9990-56	6622, Roof Assy. Complete
	100-9990-45	6624, Roof Assy. Complete
20	100-9990-14-3	Roof Guard Strap
21	100-9990-14-4	Front Roof Strap/Cap
22	100-7060	Right Side Complete 6620 (Illustrated)
	100-7060-TR	Right Side Complete 6620 (Illustrated) (No Roof)
	100-7050	Right Side Frame Only 6620 (Illustrated)
	100-7050-TR	Right Side Frame Only 6620 (Illustrated) (No Roof)
	100-7062	Right Side Complete 6622 (Illustrated)
	100-7062-TR	Right Side Complete 6622 (Illustrated) (No Roof)
	100-7052	Right Side Frame Only 6622 (Illustrated)
	100-7052-TR	Right Side Frame Only 6622 (Illustrated) (No Roof)

6600 SERIES BOX PARTS 2 OF 2



6600-BoxParts.cdr

6600 SERIES BOX PARTS 2 OF 2

KEY	PART NO.	DESCRIPTION
22	100-7064	Right Side Complete 6624 (Illustrated)
	100-7064-TR	Right Side Complete 6624 (Illustrated) (No Roof)
	100-7054	Right Side Frame Only 6624 (Illustrated)
	100-7054-TR	Right Side Frame Only 6624 (Illustrated) (No Roof)
23	100-7061	Left Side Complete 6620 (Not Illustrated)
	100-7061-TR	Left Side Complete 6620 (Not Illustrated)(No Roof)
	100-7051	Left Side Frame Only 6620 (Not Illustrated)
	100-7051-TR	Left Side Frame Only 6620 (Not Illustrated)(No Roof)
	100-7063	Left Side Complete 6622 (Not Illustrated)
	100-7063-TR	Left Side Complete 6622 (Not Illustrated)(No Roof)
	100-7053	Left Side Frame Only 6622 (Not Illustrated)
	100-7053-TR	Left Side Frame Only 6622 (Not Illustrated)(No Roof)
	100-7065	Left Side Complete 6624 (Not Illustrated)
	100-7065-TR	Left Side Complete 6624 (Not Illustrated)(No Roof)
	100-7055	Left Side Frame Only 6624 (Not Illustrated)
	100-7055-TR	Left Side Frame Only 6624 (Not Illustrated)(No Roof)
24	100-9990-15-1	Roof Bow
25	100-9990-15-9	TSS Rear Roof rail W/Tabs
26	25-6025	Auger Bracket w/Tightener
27	100-9990-200-1-1	Auger Bracket Less Tightener
28	25-8022-1	Floor Cap 96" (6620, 6622, 6624)
	25-6005-4	Floor Cap 31-1/4" (6620)
	25-6005-3	Floor Cap 55-1/4" (6622)
	25-6005-5	Floor Cap 79-1/4" (6624)
	25-8023-1	Floor End Caps
	25-6006-1	Floor Cap Splice Pieces 2" x 4"
29	100-9990-15-11	Rear Roof Bow Assy. Complete
30	100-7007-2	6620-Center Superslick Channel-231 7/8"
	100-7000-24	6622/6624 Center Superslick Channel 240"
	100-7005-5	6622 Center Superslick Channel 15-7/8"
	100-7006-1	6624 Center Superslick Channel 39-7/8"
31	100-9990-17-HS-HD	HD TSS HS Back Gate Assembly Complete W/Panels
32	100-9990-17-7	Bent Galv Panel, Painted, 85"
33	33 100-9990-17-3-12	12" Higher Tss Ctr Back Gate Angle
34	100-9990-8-15	Side Screen 7-1/2 x 82" Painted (6220, 6222, 6224)
	100-9990-8-17	Side Screen 7-1/2 x 80" Painted (6220)
35	100-9990-8-16	Side Screen 7-1/2x24" Painted (6222)
	100-9990-8-18	Side Screen 7-1/2 x 48" Painted (6224)
36	100-9990-87	No Roof Angle
37	100-9990-8-11	16' & 18' Box, Side Support Strap 171"
	100-9990-52-2	20' & 22' Box, Side Support Strap 219"
38	100-9990-52-4	Side Support End Tube
39	100-9990-52-3	Side Support Center Tube
40	TSS-SS-16-PKG	16' & 18' Side Support Package
	TSS-SS-20-PKG	20' & 22' Side Support Package

MEYER FRONT FORAGE BOXES TROUBLESHOOTING

	SYMPTOM	PROBLEM	SOLUTION
AUGERS	Augers shake or chatter.	Stiff roller chains - dry. Loose roller chains. Worn sprockets/chains. Bad roller bearings.	Lubricate roller chains. Tighten roller chains. Replace sprockets/chains. Replace roller bearings.
	Under load, augers do not start in 1st or 2nd notch.	Variable speed not adjusted.	Adjust variable speed.
BELT DRIVE "VARIABLE SPEED"	Belt slippage.	Sheaves greasy or wet. Use of "HI" Range w/full load.	Clean sheaves. Use "LO" Range w/full loads.
	Belt wear/breakage.	Variable speed not adjusted. PTO starting w/belt engaged.	Adjust variable speed. Start PTO w/belt in "Neutral."
	Sheave pin breakage.	Incorrect operating procedures. PTO starting w/belt engaged.	Follow correct operating procedures. Start PTO w/belt in "Neutral."
CROSS APRON	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.
GEAR BOXES	Clunking sounds.	Gears/bearings wearing — low oil	Replace gears/bearings—fill with oil
	Excessive gear wear.	Full load "HI" Range unloading. Wrong gear lube oil.	Start full loads in "LO" Range. See lubrication section for oil type
	Broken gears.	High speed start-up/no oil. Worn out gears.	Slow start-up/fill with oil. Replace gears.
"HI-LO" RANGE	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. Flip over or replace clutches.
MAIN APRON	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.
PTO SHAFT	Whips/shakes.	Over extended or bent PTO.	Shorten wagon gear hitch length. 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
ROLLER CHAINS AND SPROCKETS	Excessive chain wear.	Lack of lubrication. Out of alignment/loose.	Lubricate/align/tighten.
	Roller chain breakage.	Loose roller chain. Worn sprockets.	Tighten roller chains. Replace sprockets.
	Sprocket teeth tipped over.	Worn roller chain. Bad roller bearings.	Replace roller chain. Replace bearings.
SAFETY CLUTCH	Does not trip.	Bad or damaged clutch. Safety cable disconnected. Safety cable broken.	Replace safety clutch. Re-fasten safety cable. Replace safety cable.

MEYER FRONT FORAGE BOXES SPECIFICATIONS

MODEL	6620	6622	6624
Floor Length	20' 6"	22' 6"	24' 6"
Overall Length	24' 5"	26' 5"	28' 5"
Main Apron	667X Standard		
Overall Width	All Models 109.5"		
Inside Width	All Models 87"		
Overall Height	All Models 126" w/ Roof		
Inside Height	All Models 106" w/ Roof All Models 84" w/o Roof		
Speed Selection Front Unload	All Models- Low Range: 0 - 7.5'/minute - High Range 0 - 17'/minute		
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 W/Lift Assist	24" Fold-up Standard		
Safety Clutch	All Models Standard Equipment		

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

See the "Forage Box Truck Mount Specifications and Mounting Instructions" for additional information. These instructions may also be found at www.meyermfg.com/specifications.php.



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