



PB-TSS



TSS SERIES

Models 3514 • 3516 • 3518 • 4516 • 4518 • 4616 • 4618 • 4620 • 4622



Owner / Operator's Manual & Parts Book

2000 Model Year Through 2017 Model Year



1.0 IMPORTANT INFORMATION

Prior to 2016 model year, the serial number plate is located to the right of the control handles as well as stamped above the discharge opening on the unit discharge end frame.

For 2016 model year and later, the serial number plate is located above the discharge opening on the unit discharge end frame.

Please enter the model, serial number and additional information in the space provided for future reference.



Model No. _____

Serial No. _____

Date of Purchase _____

Dealership _____

Dealership Phone No. _____



Always use your serial number when requesting information or when ordering parts.

HOW TO READ YOUR SERIAL NUMBER

EXAMPLE: 11T5242

Model Year / TSS / Model / Sequence Of Build

↓ ↓ ↓ ↓

11 T 5 242



Meyer Manufacturing Corporation
 674 W. Business Cty Rd A
 Dorchester, WI 54425
 Phone: 1-800-325-9103
 Fax: 715-654-5513
 Email: sales@meyermfg.com
 Website: www.meyermfg.com



2.0 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 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 and main apron chain tension, and the need to watch and tighten during the break in period.
- Explain and review with the customer the recommended loading and unloading procedures.
- Fully complete this "PRE-DELIVERY & DELIVERY CHECK LIST" with the customer.



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Email: sales@meyermfg.com

Website: www.meyermfg.com

FARM EQUIPMENT BUYERS TRUST THE NAME MEYER!

3.0 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 / Operator's Manual & Parts Book" before operating your Meyer farm equipment. Meyer Manufacturing Corporation wants to thank you for not compromising quality. We are determined to offer excellence in customer service as well as provide you with the very best value for your dollar.

Sincerely,

All Employees of

MEYER MANUFACTURING CORPORATION

The Model TSS is available as a truck mount, ag cart or wagon mounted unit and powered by a farm tractor.

When the PTO is referred to, it means power takeoff from the tractor.

The Model TSS may be referred to as self unloading box or forage box in this manual.

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



IMPORTANT: 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.



WARRANTY: 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 on the inside of the front cover for proper identification of your Meyer Forage Box by your dealer and the manufacturer when ordering repair parts. The serial number is stamped above the discharge opening on the unit discharge end frame.



REPAIR PARTS: 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 number and serial number of the forage box which needs repair parts.

Manufacturer's Statement: Meyer Manufacturing Corporation reserves the right to make improvements in design, or changes in specifications at any time, without incurring any obligation to owners of units previously sold. This supersedes all previous published instructions.

FEATURES

DESCRIPTION	3514	3516	3518	4516	4518	4616	4618	4620	4622
TSS (Total Speed System)	STD	STD	STD	STD	STD	STD	STD	STD	STD
Quick Removeable Roof	STD	STD	STD	STD	STD	STD	STD	STD	STD
Auger Feathering System	STD	STD	STD	STD	STD	STD	STD	STD	STD
Unloading, Even Feed Augers	STD	STD	STD	STD	STD	STD	STD	STD	STD
540 RPM PTO Drive	STD	STD	STD	STD	STD	STD	STD	STD	STD
Cross Conveyor Feed Delivery (Left-Hand Discharge)	STD	STD	STD	STD	STD	STD	STD	STD	STD
Cross Conveyor Outfeed (12" Extension)	STD	STD	STD	STD	STD	STD	STD	STD	STD
Cross Conveyor Outfeed (Fold Up Extension)	OPT	OPT	OPT	OPT	OPT	STD	STD	STD	STD
D662 Pintle Cross Conveyor Chain	STD	STD	STD	STD	STD	STD	STD	STD	STD
Safety Clutch	STD	STD	STD	STD	STD	STD	STD	STD	STD
IOC (Independent Outfeed Clutch)	STD	STD	STD	STD	STD	STD	STD	STD	STD
Box Tie Down Kit & Transport Lights	STD	STD	STD	STD	STD	STD	STD	STD	STD

OPTIONS

DESCRIPTION	3514	3516	3518	4516	4518	4616	4618	4620	4622
Hydraulic Drive	OPT	OPT	OPT	OPT	OPT	OPT	OPT	OPT	OPT
Poly Floor	OPT	OPT	OPT	OPT	OPT	OPT	OPT	OPT	OPT
Side Support System	OPT	OPT	OPT	OPT	OPT	OPT	OPT	OPT	OPT
6" Higher Roof (Includes Side Supports)	OPT	OPT	OPT	OPT	OPT	OPT	OPT	OPT	OPT
12" Higher Sides (Open Top or Roof Models)	OPT	OPT	OPT	OPT	OPT	OPT	OPT	OPT	OPT
4th Auger	OPT	OPT	OPT	OPT	OPT	OPT	OPT	OPT	OPT
Cross Conveyor Feed Delivery (Right-Hand Discharge)	OPT	OPT	OPT	OPT	OPT	OPT	OPT	OPT	OPT

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4.0 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 box 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:
 - Five (5) Years:
 - a. The 3500 and 4500 Series enclosed main apron drive I260 gearbox assembly, Meyer #19-0007-B.
 - b. The D667H and D667X pintle main apron chain assembly.
 - c. The 4600 Series enclosed main apron drive I280 gearbox assembly, Meyer #19-0001-B, 19-0051, 19-0151.
 - 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 aluminized steel or galvaneal steel painted panels which comprise the sides and rear of the box portion (not front unit) of the forage box, upon evidence satisfactory to Meyer Mfg. Corp., that any such panel either rusted or corroded through or cracked or split.
 - c. The pressure treated XL-10 industrial plywood floor, upon evidence satisfactory to Meyer Mfg. Corp., that the plywood either decayed, rotted or had insect damage or became delaminated. Does not include poly bonded floor - 2 year warranty (See III.A).
 - IV. COMMERCIAL USE: Coverage as in paragraph III.A.i. ONLY, except warranty coverage is for (90) days for parts and labor to the original commercial retail customer.
 - V. Repairs eligible for labor warranty must be made by Meyer Mfg. Corp. or an authorized Meyer dealership. The original retail customer is responsible for the transportation of the forage box to the dealership for warranty service or for any service call expenses.
 - VI. Except as stated above, Meyer Mfg. Corp. shall not be liable for injuries or damages of any kind or nature, direct, consequential, or contingent, to persons or property. This warranty does not extend to loss of crop or for any other reasons.
 - VII. No person is authorized to give any 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.



5.0 SAFETY

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

Carefully follow the operating and maintenance instructions in this manual and all applicable safety laws. Failure to follow all safety procedures may result in serious injury or death.

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.

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 safety signs on the forage box itself warn you of hazards and must be read and observed closely!

Safety Alert Symbol

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!



The signal word **DANGER** on the machine and in the manual identifies a hazardous situation which, if not avoided, WILL result in death or serious injury.



The signal word **WARNING** on the machine and in the manual indicates a potentially hazardous situation which, if not avoided, COULD result in death or serious injury.



The signal word **CAUTION** on the machine and in the manual indicates a potentially hazardous situation which, if not avoided, MAY result in minor or moderate injury. It may also be used to alert against unsafe practices.



IMPORTANT

This notice identifies procedures which must be followed to avoid damage to the machine.

Danger, Warning, Caution, and instructional decals and plates are placed on the equipment to protect anyone working on or around this equipment, as well as the components of the equipment. All personnel operating or maintaining this equipment must familiarize themselves with all Danger, Warning, Caution, and instructional decals and plates.

5.1 SAFETY PRECAUTIONS



All individuals who will operate this forage box must read and completely understand the “Owner / Operator’s Manual and Parts Book”. Operator must have instructions before operating the machine. Untrained operators can cause injury or death.

- Trip the emergency stop regularly with the trip cables to ensure that it will shut the front unloading unit down in an emergency.
- DO NOT allow anyone to operate, service, inspect or otherwise handle this forage box until all operators have read and understood all of the instructional materials in the “Owner / Operator’s Manual & Parts Book” and have been properly trained in its intended usage.
- For an operator to be qualified, he or she must not use drugs or alcohol which impair alertness or coordination while working. An operator who is taking prescription drugs must get medical advice to determine if he or she can safely operate a machine and the equipment.
- Make sure all personnel can READ and UNDERSTAND all safety signs.
- DO NOT allow minors (children) or inexperienced persons to operate this forage box.
- DO NOT operate until all shields and guards are in place and securely fastened.
- DO NOT adjust, clean, lubricate or reset the emergency stop while the forage box is in motion.
- Inspect when first delivered and regularly thereafter; that all connections and bolts are tight and secure before operating.
- Know how to stop operation of the forage box before starting it!
- Make certain everyone is clear of the forage box before applying power.
- Make certain everyone stays clear of the cross conveyor while operating.
- Keep hands, feet and clothing away from moving parts. Loose or floppy clothing should not be worn by the operator.
- Observe all applicable traffic laws when transporting on public roadways (where legal to do so). Check local laws for all highway lighting and marking requirements.
- Shutoff and lockout power before adjusting, servicing, maintaining, or clearing an obstruction from this machine. (See 5.4 SHUTOFF & LOCKOUT POWER on page 19.)
- Always enter curves or drive up or down hills at a low speed and at a gradual steering angle.
- Never allow riders on either tractor / truck or equipment.
- Keep tractor / truck in a lower gear at all times when traveling down steep grades.
- Maintain proper brake settings at all times (if equipped).
- 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.
- Stay away from overhead power lines. Electrocution can occur without direct contact.
- Use only properly rated undercarriage and tires.

Safety Precautions For Tractor Towed Units:

- Do not exceed 20 mph (32 kph). Reduce speed on rough roads and surfaces.
- Always install a SMV emblem on pull-type equipment when transporting on roadways and keep clean and bright.
- Always yield to oncoming traffic in all situations and move to the side of the road so any following traffic may pass.

Safety Precautions For Truck Mounted Units:

- Comply with state and local laws governing highway safety and movement of machinery on roadways.

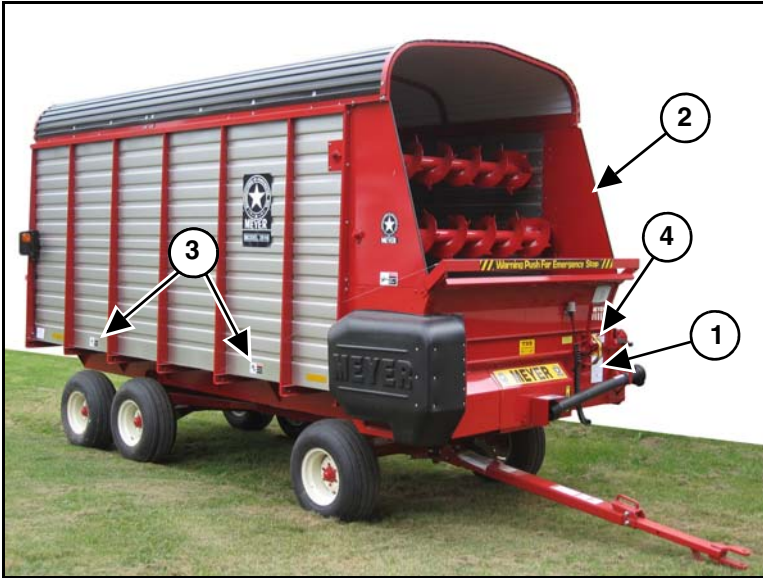
Safety Precautions For Hydraulic System:

- Check hydraulic tubes, hoses and fittings for damage and leakage. Never use hands to check for leaks. Hydraulic tubes and hoses must be properly routed and have adequate support and secure clamps. Tighten or replace any parts that show leakage.
- Always clean fluid spills. Do not use gasoline or diesel fuel for cleaning parts. Use commercial nonflammable solvents.

5.2 SAFETY SIGNS



Read all safety signs on the Forage Box and in this manual. Keep all safety signs clean and replace any damaged or missing safety signs before operating the equipment. Do Not remove any safety signs. Safety signs are for operator protection and information.

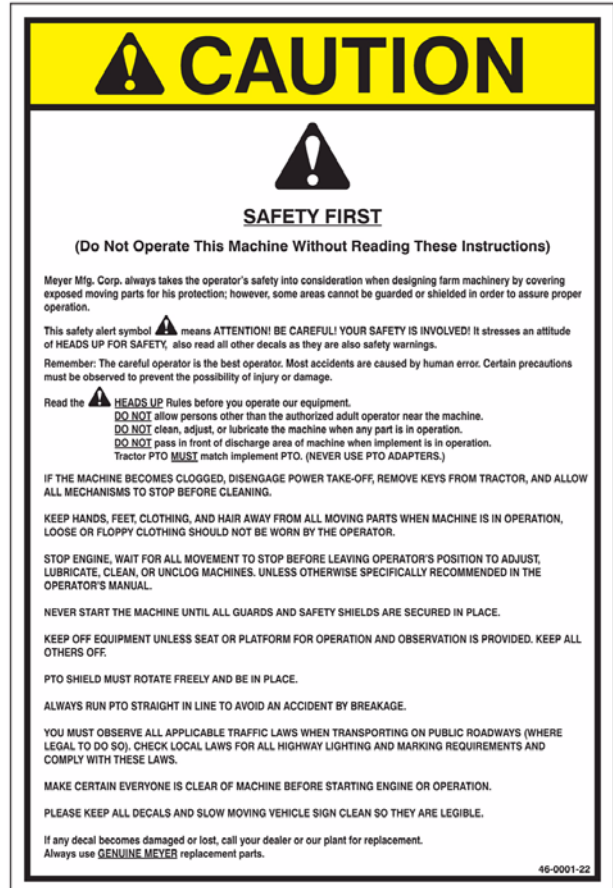


2



PART NO. 46-0001-4

1



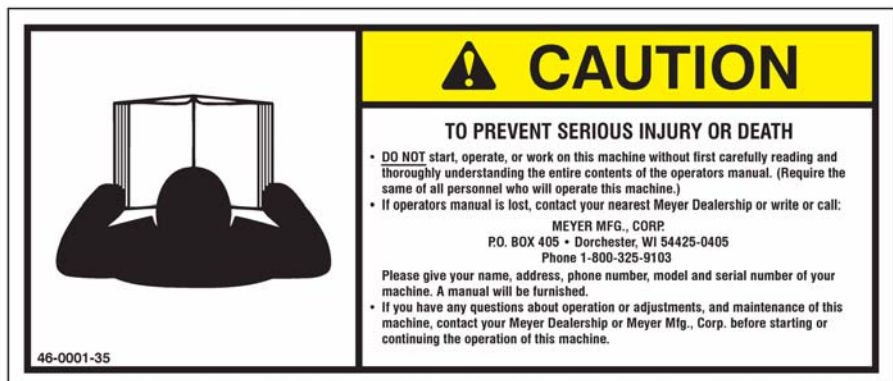
PART NO. 46-0001-22

3



PART NO. 46-0001-20

4



PART NO. 46-0001-35



Inside Cover

3

	<p>⚠ WARNING</p>
	<p>NOT A STEP! This is a PTO Guard. Very serious injury or amputation could result from contact with rotating PTO shaft.</p> <p style="text-align: right; font-size: small;">46-0004-2</p>

(ON PTO GUARD)

PART NO. 46-0004-2

4

	<p>⚠ DANGER</p>
	<p>Rotating Augers Disconnect and Lock Out Power Before Entering Box to Service.</p> <p style="text-align: right; font-size: small;">46-0001-5</p>

PART NO. 46-0001-5

5

	<p>⚠ DANGER</p>
	<p>ENTANGLEMENT HAZARD SHIELD IS OFF. CLOSE OR REPLACE SHIELD BEFORE OPERATING.</p> <p style="text-align: right; font-size: small;">46-0001-26 1</p>

Inside Cover

PART NO. 46-0001-26

7

	<p>⚠ WARNING</p>
	<p>OIL INJECTION HAZARD RELIEVE PRESSURE BEFORE SERVICING. DO NOT CHECK WITH HANDS. IF INJURED SEEK EMERGENCY MEDICAL ATTENTION.</p> <p style="text-align: right; font-size: small;">46-8500-7 1</p>

(Optional)

PART NO. 46-8500-7

6

1

STOP

RUN

46-0001-66

PART NO. 46-0001-66

2

⚠ 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

46-0001-13

PART NO. 46-0001-13

Warning Push For

Emergency Stop

PART NO. 46-0001-14

PART NO. 46-0001-15

5.3 EMERGENCY SAFETY STOP



If the emergency stop mechanism does not function properly, do not operate the machine until properly repaired. Failure to heed may result in serious personal injury or death.

5.3.1 Emergency Stop Trip Locations

The “Warning Push For Emergency Stop” bar (Item 1) is located on the front of the forage box.

Emergency stop trip cables (Item 2) connected to the “Warning Push For Emergency Stop” pushbar extend along both sides of the forage box.



5.3.2 Emergency Stop Operation

Push on the bar (Item 1) to shut down the forage box in an emergency.

Pull on the trip cables (Item 2) to shut down the forage box in an emergency.

NOTE: The emergency stop mechanism does not stop the PTO drive shaft.

5.3.3 Resetting the Emergency Stop



Shutoff and lockout power before adjusting, servicing, maintaining, or clearing an obstruction from this machine. Failure to heed may result in serious personal injury or death.



Do not reset the emergency stop mechanism until all bystanders, tools and other objects have been cleared from the forage box. Failure to heed may result in serious personal injury or death.

To reset the emergency stop mechanism, fully engage the INDEPENDENT OUTFEED CLUTCH control lever (Item 1) into the “RUN” position.

Test the emergency stop mechanism frequently for front unloading operation using the push bar and trip cables at the rear most point of the box, to be assured that the emergency stop mechanism is in proper operating condition and can be shutdown in the event of an emergency.

NOTE: Always keep excessive slack out of the emergency stop trip cables.



5.4 SHUTOFF & LOCKOUT POWER

Any individual that will be adjusting, servicing, maintaining, or clearing an obstruction from this machine needs to ensure that this machine stays safely “OFF” until the adjustment, service, or maintenance has been completed, or when the obstruction has been cleared, and that all guards, shields, and covers have been restored to their original position. The safety of all individuals working on or around this machine, including family members, are affected. The following procedure will be referred to throughout this manual, so be familiar with the following steps.

5.4.1 Shutoff & Lockout Power Recommendations

1. Think, Plan and Check

- a. **Think** through the entire procedure and identify all the steps that are required.
- b. **Plan** what personnel will be involved, what needs to be shut down, what guards / shields need to be removed, and how the equipment will be restarted.
- c. **Check** the machine over to verify all power sources and stored energy have been identified including engines, hydraulic and pneumatic systems, springs and accumulators, and suspended loads.

2. Communicate - Inform everyone involved, including those working on or around this machine, that work is being done which involves keeping this machine safely “OFF”.

3. Power Sources

- a. **LOCKOUT** - Shut off engines and take the key, or physically lock the start/on switch or control. Disconnect any power sources which are meant to be disconnected (i.e. electrical, hydraulic, and PTO of pull-type units).
- b. **TAGOUT** - Place a tag on the machine noting the reason for the power source being tagged out and what work is being done. This is particularly important if the power source is not within your sight and/or will need to be isolated for a longer period of time.

4. Stored Energy - Neutralize all stored energy from its power source. Ensure that this machine is level, set the parking brake, and chock the wheels. Disconnect electricity, block moveable parts, release or block spring energy, release pressure from hydraulic and pneumatic lines, and lower suspended parts to a resting position.

5. Test - Do a complete test and personally double check all of the above steps to verify that all of the power sources are actually disconnected and locked out.

6. Restore Power - When the work has been completed, follow the same basic procedures, ensuring that all individuals working on or around this machine are safely clear of the machine before locks and tags are removed and power is restored.

IMPORTANT

It is important that everyone who works on this equipment is properly trained to help ensure that they are familiar with this procedure and that they follow the steps outlined above. This manual will remind you when to Shutoff & Lockout Power.



6.0 PRE-OPERATION



CAUTION

DO NOT allow anyone to operate, service, inspect or otherwise handle this forage box until all operators have read and understand all of the instructional materials in the “Owner / Operator’s Manual and Parts Book” and have been properly trained in its intended usage.

Verify that the forage box is securely fastened to the tractor / truck.

Verify that all electrical / hydraulic connections and bolts / hardware are tight and securely fastened before operating the forage box.

Always keep all shields and guards in place and securely fastened.

Keep hands, feet and clothing away.

Wear safety glasses to prevent eye injury when any of the following conditions exist:

- When fluids are under pressure.
- Flying debris or loose material is present.
- Tools are being used.

Failure to heed may result in serious personal injury or death.

6.1 PRODUCT INSPECTION



WARNING

Hydraulic fluid escaping under pressure can have sufficient force to cause injury. Keep all hoses and connections in good serviceable condition. Failure to heed may result in serious personal injury or death.

6.1.1 Before Operating The Forage Box

Before operating the forage box for the first time and each time thereafter, check the following items:

1. Inspect the forage box for proper adjustments. (See 8.2 ADJUSTMENTS on page 39.)
2. Lubricate the equipment. (See 8.1 LUBRICATION on page 37.)
3. Make sure that all guards and shields are in place, secured and functioning as designed.
4. Check all main roller bearings for wear. Replace as needed.
5. Remove any twine, wire or other material that has become entangled around the apron drive system, front augers, or cross conveyor system.
6. Check condition of all hydraulic components for leaks. Repair or replace as required.
7. Check the hydraulic oil level. (See 8.1 LUBRICATION on page 37.)

6.1.2 General Inspection



Inspect the chassis' axles, o-beams, spindles, tires, hitches & all safety shielding, safety signs and safety lighting regularly. These parts if not watched closely, may pose potential injury or death. If any part is found in need of repair, follow the SHUTOFF & LOCKOUT POWER recommendations and have qualified personnel repair immediately.

Check to see that no obstructions are present in the forage box prior to start up. Be sure that there are not tools laying on or in the forage box. Unloading is best observed from the operator's seat.

See your Trailer / Chassis manual for further product safety and maintenance details.

6.2 LIGHT HOOK-UP

Truck Models: A 4 pin electrical socket is provided to connect the electrical control plug from your truck. This will operate signal, tail, clearance and brake lights.

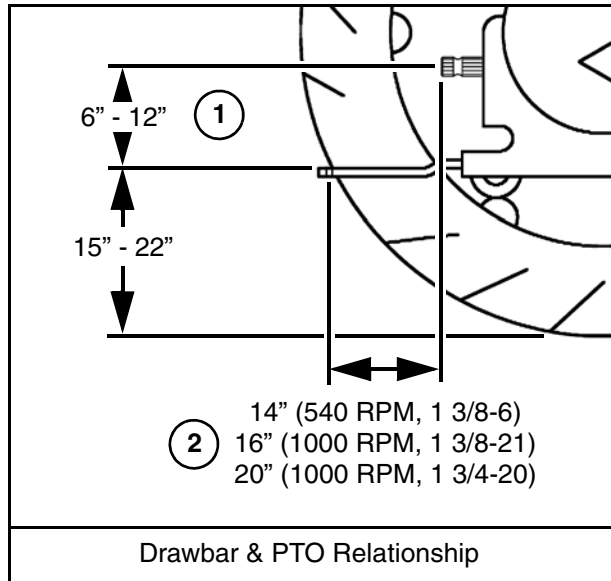
NOTE: Depending on make and model of the truck, it may be necessary to install a light converter. (Meyer part #56-0028). Converter allows signal lights and brake lights to operate according to DOT Lighting Standards.

6.3 PTO HOOK-UP

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.

Adjust the tractor's drawbar in / out, until the center of the hitch pin hole matches the correct PTO set up. See your tractor's owner's manual for correct adjustment procedures (Item 2).

The distance between center of the tractor PTO shaft and drawbar should be between 6 - 12 inches (8 inches is recommended) (Item 1).



Do not operate without PTO guard on machine and on tractor. Maintain PTO drive shaft guards in operating condition. Replace guards if damaged or not turning freely. Failure to heed may result in serious personal injury or death.

6.4 HYDRAULIC HOOK-UP (OPTIONAL)

Truck & Tractor hydraulic system should be capable of 25 GPM @ 3000 PSI peak pressure. If truck mounted, install a relief valve set at 3000 PSI. Engine RPM should be 1200 RPM. Set up hydraulic system on Truck mounted units with a 30 gallon reservoir minimum.

Call the factory for further information.

NOTE: The PTO horsepower and / or hydraulic requirements may not reflect adequate tractor size for towing the machine. Refer to Tractor Weight Requirements 3.9.3 for these recommendations and transporting section for additional tractor and towing requirements.

IMPORTANT

Do not exceed maximum PSI or a motor failure could result.

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.

6.5 HITCHING TO TRACTOR

Move to the operator’s position, start the engine and release the parking brake.



WARNING

Do not allow anyone to stand between the tongue or hitch and the tractor when backing up to the Forage Box.

Move the tractor in front of the forage box. Slowly move the tractor backwards towards the forage box and align the drawbar with the implement’s hitch.

NOTE: Lower or raise the forage box jack to properly align the drawbar and hitch.

Fasten the forage box hitch to the tractor drawbar with a properly sized hitch pin with safety retainer. (Reference ANSI/ASABE AD6489-3 Agricultural vehicles - Mechanical connections between towed and towing vehicles - Part 3: Tractor drawbar.) (See your Trailer / Chassis / Wagon manual for further details.)

Before operation and after hitching the tractor to the implement, connect the PTO and light cord to the tractor.

6.6 START-UP AND SHUT-DOWN



DO NOT allow anyone to operate, service, inspect or otherwise handle this forage box until all operators have read and understand all of the instructional materials in this Operator's And Parts Manual and have been properly trained in its intended usage.

Before operating the forage box, look in all directions and make sure no bystanders, especially small children are in the work area.



Disengage the hydraulic power, engage the machine's parking brake, stop the engine and make sure all moving components are completely stopped before connecting, disconnecting, adjusting or cleaning this equipment.

Always keep all shields and guards in place and securely fastened.

Keep hands, feet and clothing away.

For Start Up Procedure, see 7.3.1 TSS Unit Start Up & Shut Down Procedures on page 31.

For Shut Down Procedure, see 7.3.2 Two-Speed Unit Start Up & Shut Down Procedures on page 33.

6.7 OPERATIONAL CHECKS



Before operating the forage box, look in all directions and make sure no bystanders, especially small children are in the work area.

Before filling the forage box, slowly engage the hydraulics and operate at idle speed to ensure that the forage box is operating properly.

Adjust and lubricate equipment as needed. (See 8.2 ADJUSTMENTS on page 39.) & (See 8.1 LUBRICATION on page 37.)

6.8 TRANSPORTING



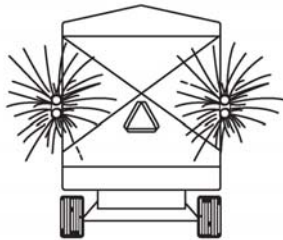
CAUTION

AVOID SERIOUS INJURY OR DEATH

- Read and understand owner's manual before using. Review safety precautions annually.
- Before operating the forage box, look in all directions and make sure no bystanders, especially small children are in the work area.
- No riders allowed when transporting.
- Do not drink and drive.
- Before moving, 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 chassis.
- Maintain wheel bolts at torque as recommended in the manual.
- If equipped with brakes, maintain proper adjustment.



CAUTION



Pull-Type Units

- Use flashing warning lights when transporting on ALL highways (public roadways) at ALL times (Tractor towed models) EXCEPT WHEN PROHIBITED BY LAW! (Check w/local law enforcement)
- By all state and federal laws, implement lights do not replace the SMV (Slow-Moving Vehicle) identification emblem. All towed agricultural vehicles must display SMV emblems when traveling LESS than 20 mph (32 kph).
- 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.
- Securely attach to towing unit. Use a high strength appropriately sized hitch pin with mechanical retainer and attach safety chain.
- Do not exceed 20 mph (32 kph). Slow down for corners and rough terrain.



WARNING



To Prevent Serious Injury Or Death

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

WARNING



To Prevent Serious Injury Or Death

- Shift to lower gear before going down steep grades.
- Avoid traveling on slopes or hills that are unsafe.
- Keep towing vehicle in gear at all times.
- Never exceed a safe travel speed (which may be less than 20 MPH.).

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

(Tractor Powered) Do not tow at speeds in excess of 20 mph. Failure to heed may result in serious personal injury or death.

IMPORTANT

Verify that the fold down cross conveyor extension (if equipped), is folded up (raised position) to reduce transport width.

IMPORTANT

The running gear on tractor pulled models may be equipped with a telescoping tongue for convenience to hitch up. Always back up and lock this tongue in the operating position after hitching.

IMPORTANT

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.

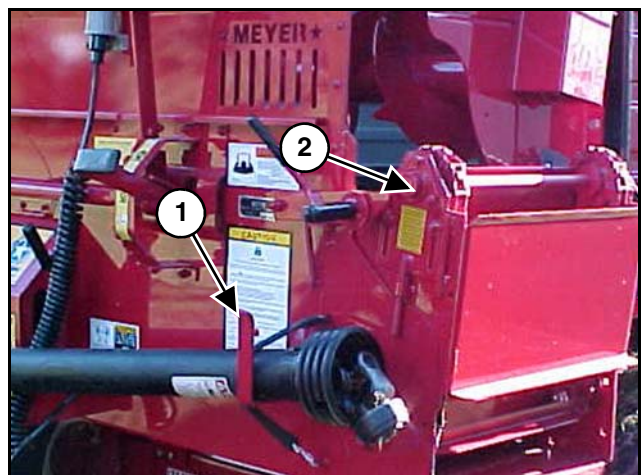
An optional highway lighting package is available to assist in meeting these requirements. See your Meyer dealer for details.

6.8.1 Fold Down Cross Conveyor Extension

Always disconnect the PTO driveline from the tractor and place in the PTO storage bracket (Item 1) before transporting. Failure to do this may result in equipment damage.

Always transport with the fold down cross conveyor extension (Item 2) folded up.

Disconnect the hydraulic hoses from the tractor and place in the storage brackets before transporting.

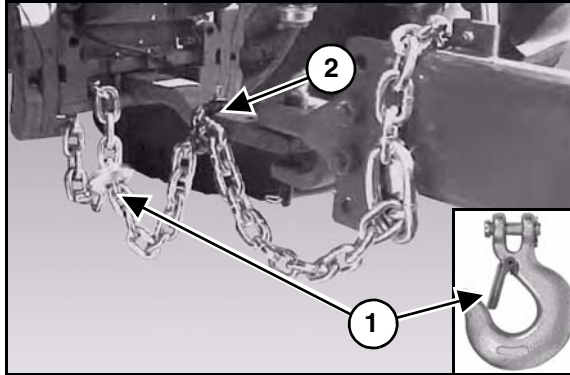


FOLD DOWN CROSS CONVEYOR EXTENSION

6.8.2 Safety Chain



A safety chain must be installed to retain the connection between the tractor (or other towing vehicle) and implement whenever traveling on public roads in case the hitch connection would separate.



The chain must be of adequate size to hold the weight of the loaded forage box. See your ag cart or wagon owner / operator's & parts book, which is also available at www.meyermfg.com.

NOTE: If using a grab hook at the end(s) of the chain to secure the chain to itself, a hook latch (Item 1) must be installed.

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

particular forage box.

NOTE: Do not use the intermediate support (Item 2) as the attaching point.

IMPORTANT

If you do not have a safety chain, or a replacement safety chain is needed, see your local Meyer dealer and do not operate on public roads until you are able to travel with the safety chain properly installed.

6.8.3 Brake Information

See your trailer / chassis manual for brake and braking Information.

6.8.4 Tractor Towing Size Requirements

Use the following charts to help calculate the minimum tractor weight when towing without implement brakes. The minimum tractor weight, up to 20 mph (32 kph) needs to be two-thirds of the box Gross Weight (GW). Gross Weight is calculated by the empty weight of the box and undercarriage combined added to the Load Weight. Then take the Gross Weight and multiply it by 0.667 and you will get the Minimum Required Weight of the Tractor.

Gross Weight

FORAGE BOX WEIGHT, EMPTY (LBS)		UNDERCARRIAGE WEIGHT (LBS)		LOAD (LBS)		GROSS WEIGHT (GW) (LBS)
	+		+		=	GW
	+		+		=	

Minimum Required Weight of the Tractor

2/3		GROSS WEIGHT (GW) (LBS)		MINIMUM TRACTOR WEIGHT (LBS)
0.667	x	GW	=	TW
	x		=	

Tractor PTO Horsepower Requirements:

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

7.0 OPERATION



DO NOT allow anyone to operate, service, inspect or otherwise handle this forage box until all operators have read and understand all of the instructional materials in this Operator's And Parts Manual and have been properly trained in its intended usage.

Before operating the forage box, look in all directions and make sure no bystanders, especially small children are in the work area.

Do not climb or step on any part of the forage box at any time.

Turn on level ground. Slow down when turning.

Go up and down slopes, not across them.

Keep the heavy end of the machine uphill.

Do not overload the machine.

Check for adequate traction.



7.1 LOADING



Shutoff and lockout power before adjusting, servicing, maintaining, or clearing an obstruction from this machine. Failure to heed may result in serious personal injury or death.

IMPORTANT

Overloading may cause failure of axles, tires, structural members, hitches, loss of vehicle control. **DO NOT** exceed maximum gross weight. (See 11.0 TROUBLESHOOTING on page 123.)

IMPORTANT

Filling the forage box evenly from the front to rear will ensure there is downward force on the tractor hitch and provide traction for the tractor wheels.

NOTE: Heaping material over the sides of the box will add a significant amount of weight to the load.

NOTE: Overloading can have detrimental effects on the integrity of the implement and it's safe use. Some materials such as soybeans may not be able to be filled to struck level. Overloading will void warranty and increase risk to the operator's safety. Always be aware of your gross weight.

FORAGE BOX WEIGHT WITHOUT OPTIONS, EMPTY (LBS)	
MODEL	LBS
3514	3960
3516	4240
3518	4520
4516	4480
4518	4760
4616	4680
4618	4960
4620	5240

MATERIAL ESTIMATED WEIGHT PER CUBIC FOOT	
MATERIAL	LBS / CU. FT.
Soybeans	47 lbs.
Cotton Seed (Dry)	20 lbs.
Corn (Shelled)	45 lbs.
Corn Silage	30 lbs.
Haylage	20 lbs.
Sawdust	17 lbs.
Source: SAE D384.2	

NOTE: Maximum Gross Weight is the lesser value between the implement, chassis, or tires.

NOTE: DO NOT fill the cross conveyor unloading area with forage to gain extra capacity. Filling the front unloading unit puts unnecessary pressures and strains on the cross conveyor and auger drive.

7.2 NO ROOF IMPLEMENTS

Drive alongside the loading vehicle. Fill the forage box evenly to properly distribute the load while loading. When dumping into the box with an end-loader, center the bucket just forward of the axle to properly distribute the load while loading.

7.3 UNLOADING

CAUTION

Shutoff and lockout power before adjusting, servicing, maintaining, or clearing an obstruction from this machine. Failure to heed may result in serious personal injury or death.

Never enter the forage box without shutting power “OFF” to the machine. (See 5.4 SHUTOFF & LOCKOUT POWER on page 20.)

Never use “LIVE” power to aid in the clean-out of a clogged machine.

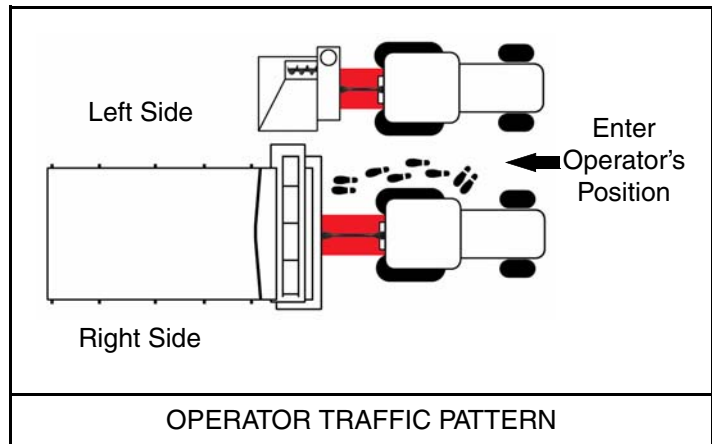
IMPORTANT

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.

Enter the tractor / truck, start the engine, release the parking brake.

Move the forage box into position and park so that the cross conveyor discharge opening is in alignment with the blower / hopper. If the forage box is equipped with a fold down cross conveyor extension, lower it down before pulling in front of the blower.

NOTE: Always park the forage box and unloading tractor in a straight line. Minimize the unloading angle on the PTO driveline to prevent wearing of universal joints when connected to the unloading tractor PTO.



Put the tractor / truck controls in neutral, set the parking brake.

IMPORTANT

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

AVOID SERIOUS PERSONAL INJURY OR DEATH

- Do not step over the PTO driveline.
- Stay well clear of the PTO driveline at all times.
- Do not step up on any part of the forage box at any time.



7.3.1 TSS Unit Start Up & Shut Down Procedures

NOTE: For Two-Speed procedures (See 7.3.2 Two-Speed Unit Start Up & Shut Down Procedures on page 33.).

Start Up Procedure

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 (Item 1) control lever is in the “Stop” position and the VARIABLE SPEED (Item 2) & HI-LO RANGE (Item 3) 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 manufacturer’s warranty.



Start the silo filling blower.

Enter the forage box unloading tractor, start the engine and slowly engage the PTO.

Set the engine RPM speed between 1300-1500 to achieve a PTO speed of 300-375 RPM.

NOTE: Do not operate above the rated 1500 rpm engine speed.

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.

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

Never enter the forage box without shutting power “OFF” to the machine. (See 5.4 SHUTOFF & LOCKOUT POWER on page 19.)

Never use “LIVE” power to aid in the clean-out of a clogged machine.



CAUTION

DO NOT start and unload full loads in “HI” range.

IMPORTANT

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 damage and may void the manufacturer’s warranty.

Shut Down Procedure

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.

IMPORTANT

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

Idle down the tractor engine RPM. 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.

IMPORTANT

If the forage box becomes clogged, shut off all power to the forage box and wait until all rotating components are completely stopped. (See 5.4 SHUTOFF & LOCKOUT POWER on page 19.)

IMPORTANT

If any component fails, shut off all power to the forage box and move the forage box to a safe work area. Repair or replace damaged components before proceeding with unloading of the forage.

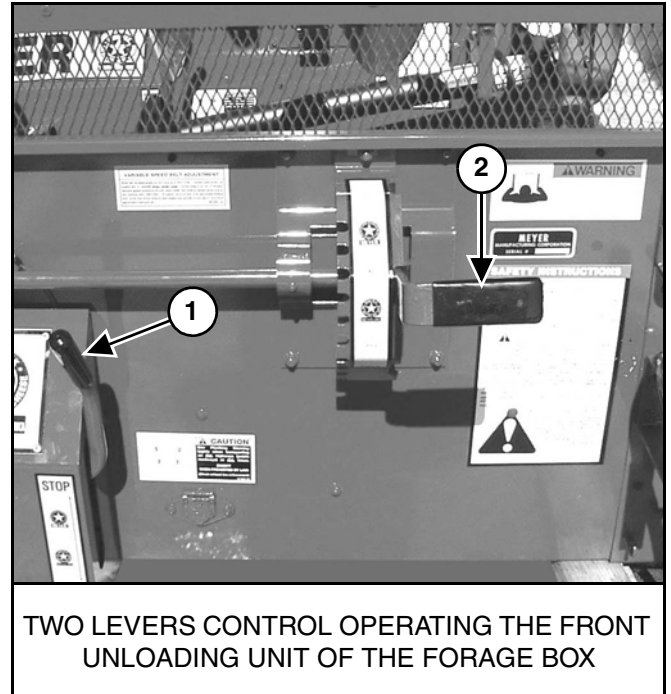
7.3.2 Two-Speed Unit Start Up & Shut Down Procedures

Start Up Procedure

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 (Item 1) control lever is in the “Stop” position and the HI-LO RANGE (Item 2) control levers are in the “Neutral” positions.

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.



Start the silo filling blower.

Enter the forage box unloading tractor, start the engine and slowly engage the PTO.

Set the engine RPM speed between 1300-1500 to achieve a PTO speed of 300-375 RPM.

NOTE: Do not operate above the rated 1500 rpm engine speed.

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.

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



Never enter the forage box without shutting power “OFF” to the machine. (See 5.4 SHUTOFF & LOCKOUT POWER on page 19.)

Never use “LIVE” power to aid in the clean-out of a clogged machine.



DO NOT start and unload full loads in “HI” range.

IMPORTANT

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 damage and may void the manufacturer’s warranty.

Shut Down Procedure

For proper operation, it is IMPORTANT that when unloading is completed to slowly return 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.

IMPORTANT

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

Idle down the tractor engine RPM. 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.

IMPORTANT

If the forage box becomes clogged, shut off all power to the forage box and wait until all rotating components are completely stopped. (See 5.4 SHUTOFF & LOCKOUT POWER on page 19.)

IMPORTANT

If any component fails, shut off all power to the forage box and move the forage box to a safe work area. Repair or replace damaged components before proceeding with unloading of the forage.

7.4 UNHOOKING THE TRACTOR

1. Park the implement on level ground. Put the tractor controls in neutral, set the parking brake, and turn the engine off before dismounting.
2. Place wheel chocks in front and in back of the implement wheels on opposite sides to prevent the implement from rolling after the tractor is unhooked.
3. 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.
4. Remove the light cords and any optional equipment connections.
5. Trailer Mounted - Remove the jack from the storage mount and install it on the hitch tongue. Crank the jack down until the hitch lifts off the tractor draw bar.



WARNING

Keep hands, legs and feet from under tongue and hitch until jack is locked into place.

6. Remove the hitch pin.
7. Unhook safety chain from tractor drawbar and intermediate support.
8. Slowly drive the tractor away from the implement.



8.0 MAINTENANCE

8.1 LUBRICATION



CAUTION

SHUTOFF & LOCKOUT POWER before adjusting, cleaning, lubricating or servicing the machine. (See 5.4 SHUTOFF & LOCKOUT POWER on page 19.)

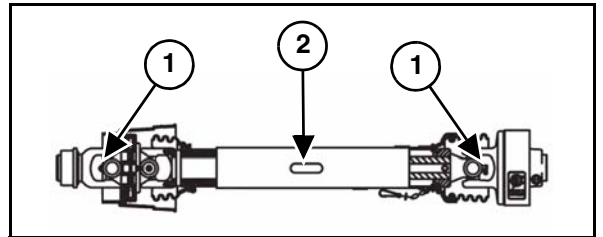
IMPORTANT

Fluid such as hydraulic fluid, grease, etc. must be disposed of in an environmentally safe manner. Some regulations require that certain spills and leaks on the ground must be cleaned in a specific manner. See local, state and federal regulations for the correct disposal.

DAILY or every **8-10 loads**:

NOTE: Always use a good quality lithium base grease when lubricating the forage box.

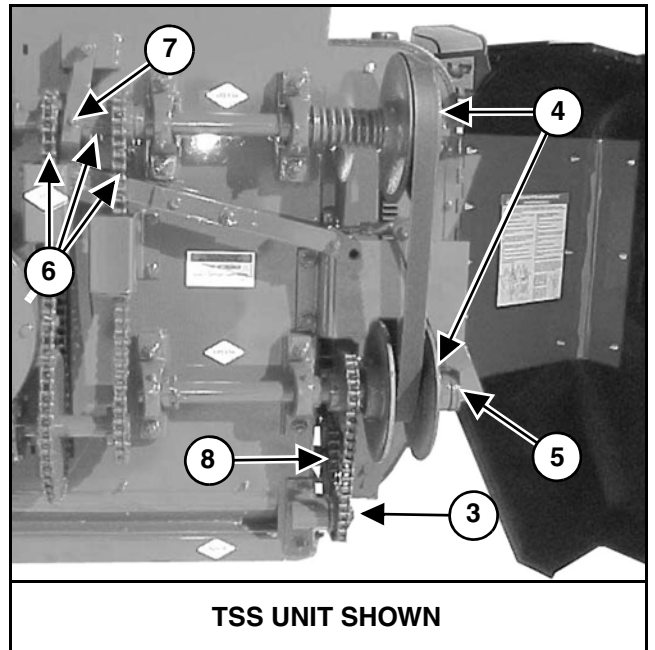
- Grease the two PTO drive shaft universal joints (Item 1).
- Grease the PTO drive shaft, telescoping shaft and tube (Item 2). Zerk accessible through the plastic guards.



- Grease front idler sprocket (Item 3) (wipe off excess grease from exterior) (TSS & 2-Speed Units).
- Grease the two moveable clutch sheaves (Item 4) (wipe excess from interior and exterior) (TSS Units Only).

NOTE: Prevent oil and grease from getting on clutch sheave belt drive surface (TSS Units Only).

- Apply grease to lower cluster shaft end (Item 5) and lower variable speed engagement arm (TSS Units Only).
- Oil the roller chains and “HI-LO” range sliding jaw clutch (Item 6).
- Grease “HI-LO” range brass shifting collar (Item 7).
- Oil the two roller chains on auger drive (Not Shown) and the one roller chain on cross conveyor drive (Item 8) (TSS & 2-Speed Units).

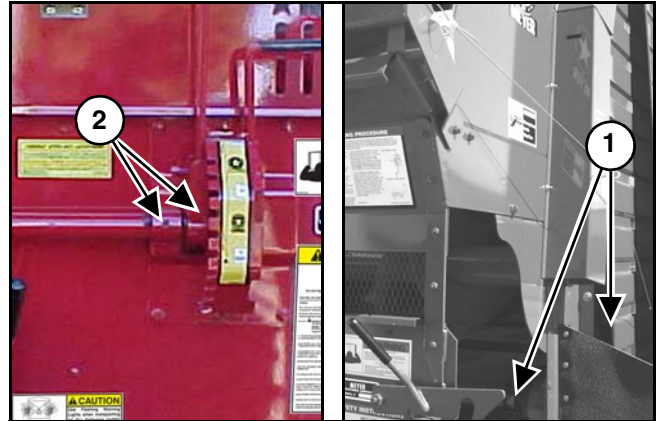


NOTE: The roller chain (Item 8) on 2-Speed Units will extend from the idler sprocket, up towards the “HI-LO” range shaft.

NOTE: Oil the middle and upper auger drive roller chains through slots provided in the chain shields.

Every 100-150 loads:

- Grease the two main apron shaft bearings (Item 1). (Center bearing grease from zerk in left end frame.)



TSS Units:

- Grease the three shifter control lever guide sleeves (Item 2). Grease one independent outfeed clutch handle pivot under front shield.

2-Speed Units:

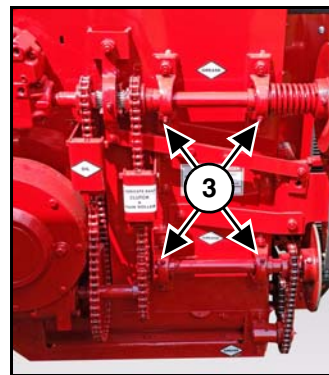
- Grease the two shifter control lever guide sleeves. Grease one independent outfeed clutch handle pivot under front shield.

TSS Units:

- Grease the four pillow block bearings (Item 3).

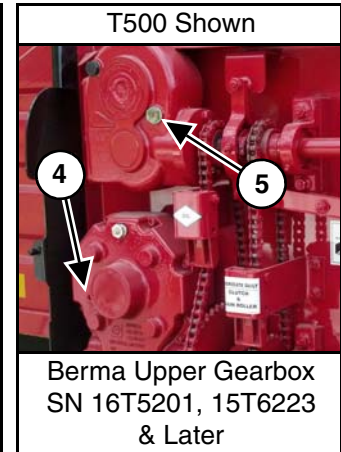
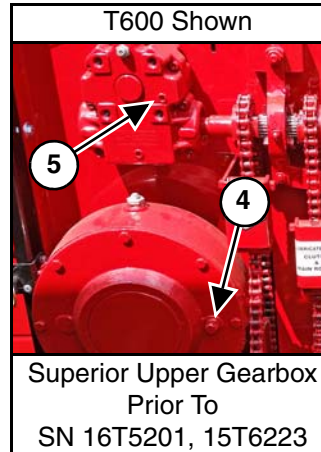
2-Speed Units:

- Grease the two pillow block bearings.

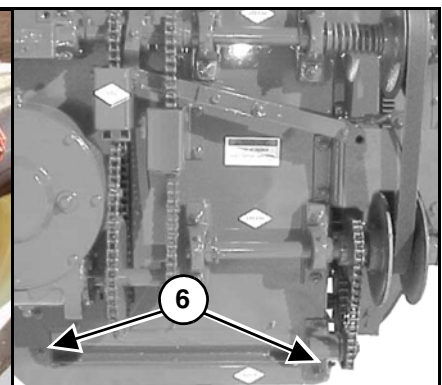
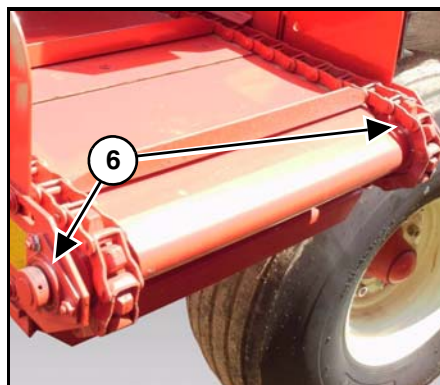


TSS & 2-Speed Units:

- Maintain oil in the lower gearbox (Item 4) at the check plug level. Change oil in the lower 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.
- Maintain oil in the auger drive upper gearbox (Item 5) at the check plug level. Change oil in the gearbox after the first season of use and yearly thereafter. For boxes with serial numbers prior to 16T5201 and 15T6223, use ONLY Synthetic ISO 460 Gear Oil AGMA 7 (Non EP) or equivalent. For boxes with serial numbers 16T5201, 15T6223, and later use 80W90 or equivalent.



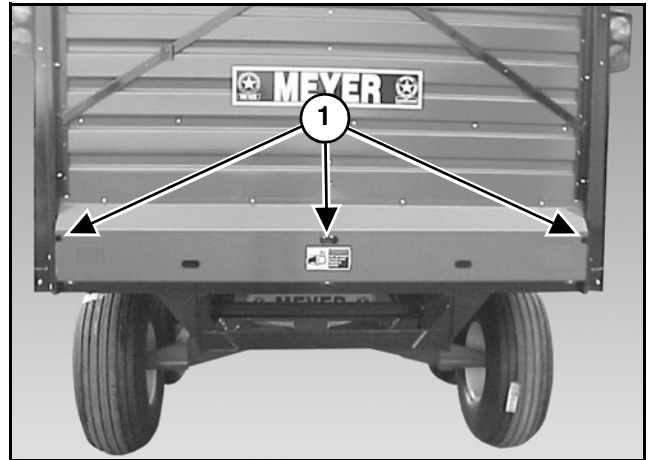
- Grease the four cross conveyor apron shaft bearings (Item 6).



- Oil the four main apron rear tighteners-loosen tighteners (Item 1), oil adjuster bolts, and reset to proper chain tension. (See 8.2.2 Main Apron Chains on page 39.)

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



8.2 ADJUSTMENTS



SHUTOFF & LOCKOUT POWER before adjusting, cleaning, lubricating or servicing the machine. (See 5.4 SHUTOFF & LOCKOUT POWER on page 19.)

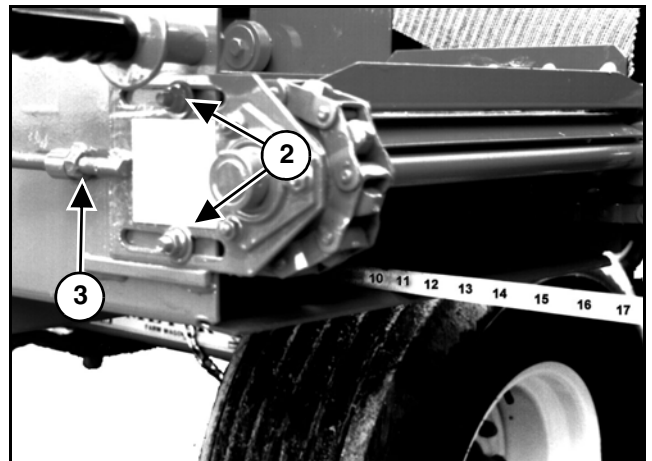
8.2.1 Cross Conveyor Chain With Cross Apron Hold Downs

NOTE: 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.

Loosen the two bolts (Item 2) securing the slotted bearing bracket at each side of the discharge opening.

Tighten the chain by tightening the nut (Item 3) on the adjuster bolt. Adjust both sides equally.

Retighten the two bearing bracket bolts (both sides).

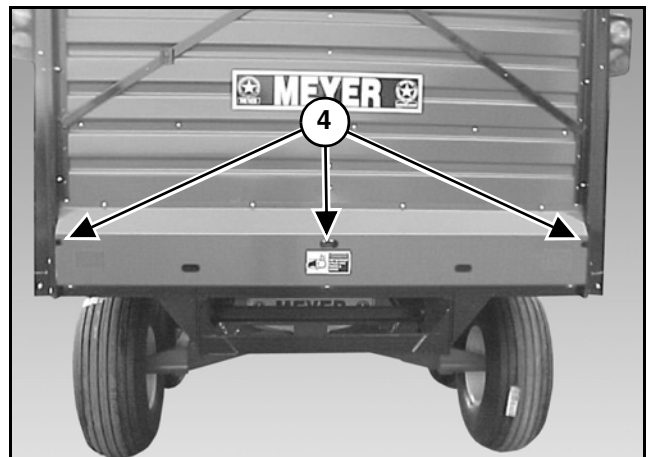


8.2.2 Main Apron Chains

NOTE: Correct adjustment on the main apron chains is when about (3') feet of chain does not touch the return slides at the rear of the forage box.

Tighten the adjuster bolts (Item 4) at each end of the rear sprocket shaft equally.

NOTE: Each apron chain has its own sprocket shaft.

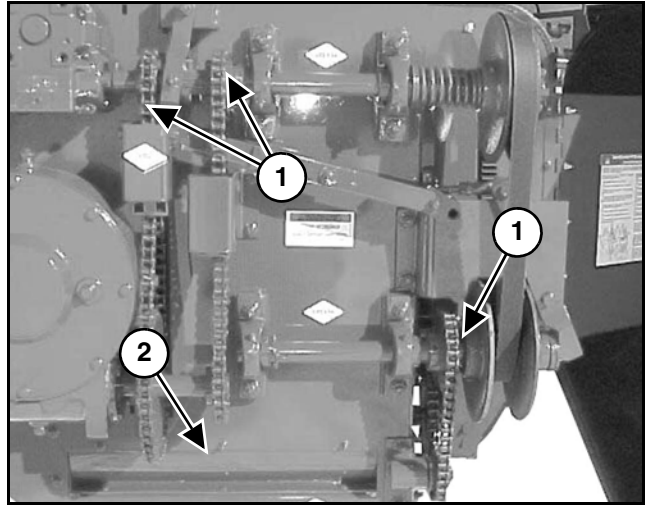


8.2.3 Roller Chain Drives

All roller chain drives (Item 1) are tensioned by automatic spring loaded tension blocks.

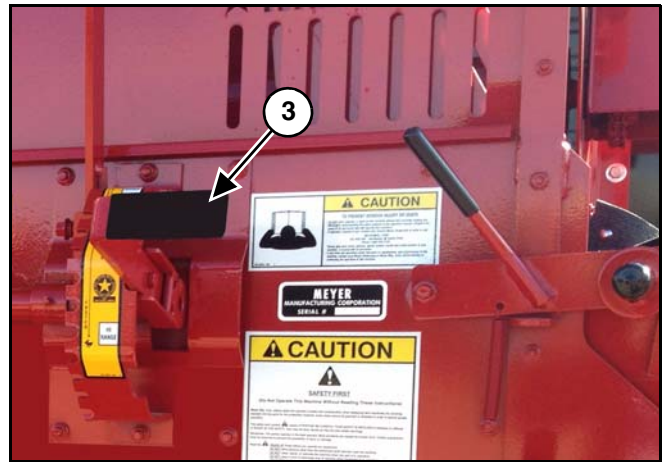
8.2.4 Clean Out Panel

Remove panel (Item 2) and clean out accumulation of foreign material build-up.



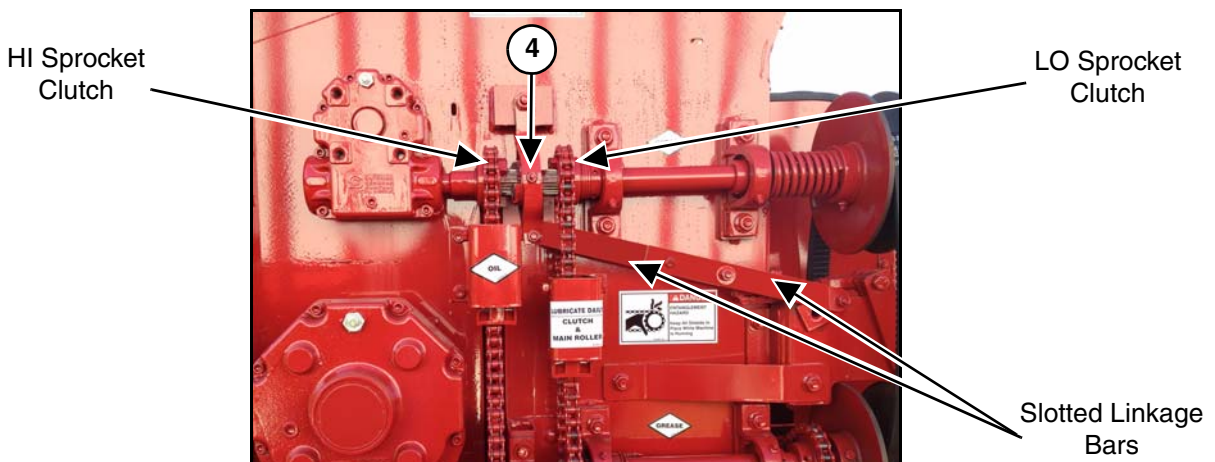
8.2.5 Range Control Clutch Adjustment (TSS & 2-Speed Units)

Move the Range control lever (Item 3) to “NEUTRAL,”



The sliding splined jaw clutch (Item 4) should be at midspan between the “LO” and “HI” sprocket clutch jaws on the splined gear cluster shaft.

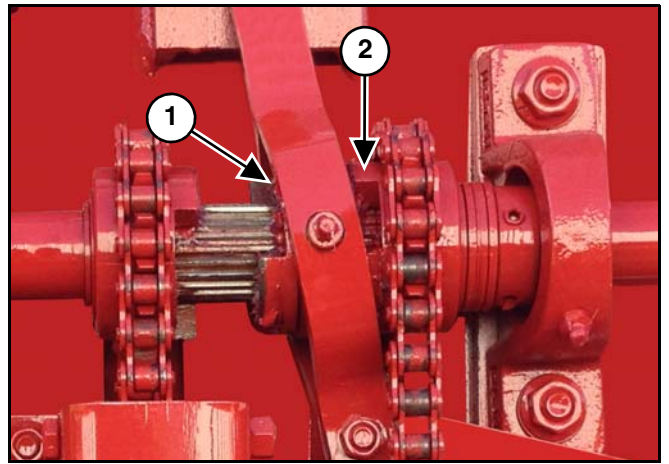
NOTE: Neither “LO” nor “HI” should be engaged.



When the Range control lever is moved to “LO”, the engaging jaw clutch (Item 1) should mate with the “LO” range sprocket clutch (Item 2) and have about 1/16” of clearance (Likewise for the “HI” range when the lever is moved to “HI.”).

NOTE: This engagement is adjusted by changing the length of over-lap on the two, slotted hole linkage bars.

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.

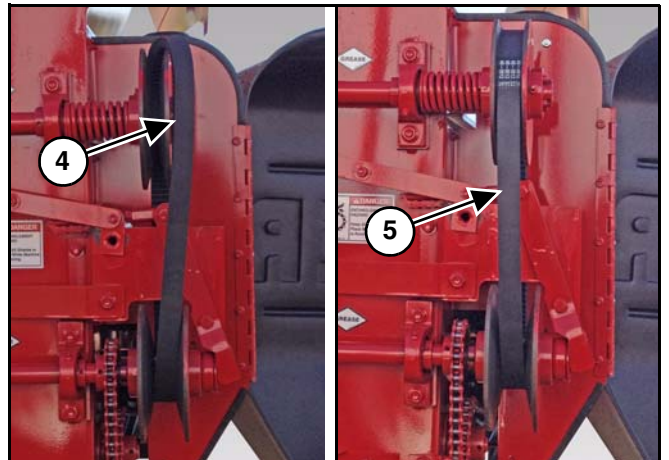


8.2.6 Variable Speed Belt Replacement (TSS Units Only)

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 equipped).
5. Open cluster shield plastic door (Item 3).



6. Roll the old belt (Item 4) counter-clockwise off of the top sheaves starting at the 2:00 position.
7. Install the new belt (Item 5) 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 equipped).



8.2.7 Variable Speed Control Adjustment (TSS Units Only)

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.

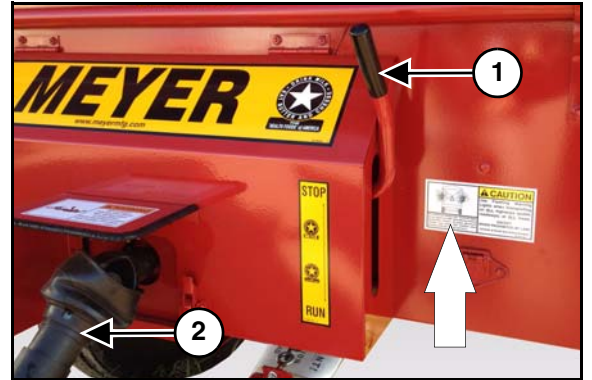
8.2.8 Independent Outfeed Clutch Belt Replacement



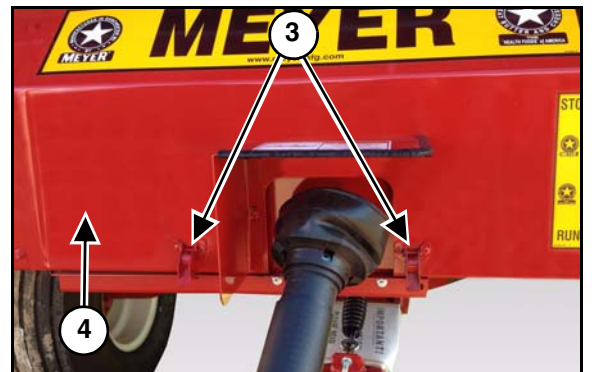
WARNING

Disconnect PTO drive shaft or hydraulic power source before following any more instructions. Failure to heed may result in serious personal injury or death.

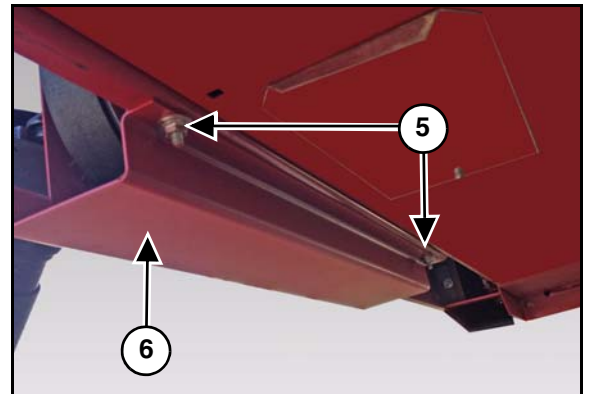
1. Move the Independent Outfeed Clutch control lever (Item 1) to “STOP” (up).
2. Extend the PTO drive shaft (Item 2) out straight and lower the tractor end down to ground.



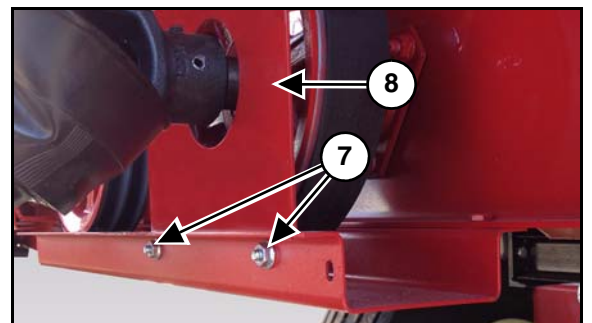
3. Release the two latches (Item 3) and raise the front chain shield assembly (Item 4).



4. Loosen the two bolts (Item 5) on the belt pan (Item 6).



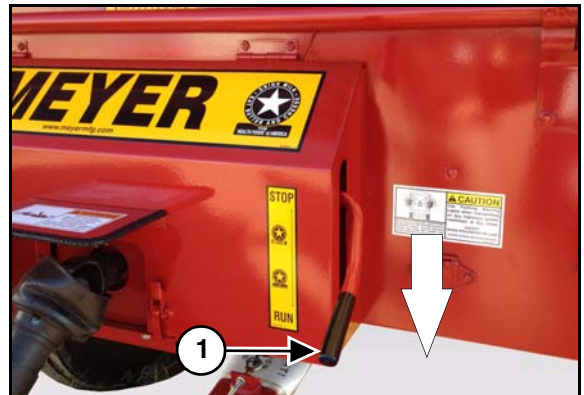
5. Remove the two bolts (Item 7) for the PTO shaft cover (Item 8).



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.

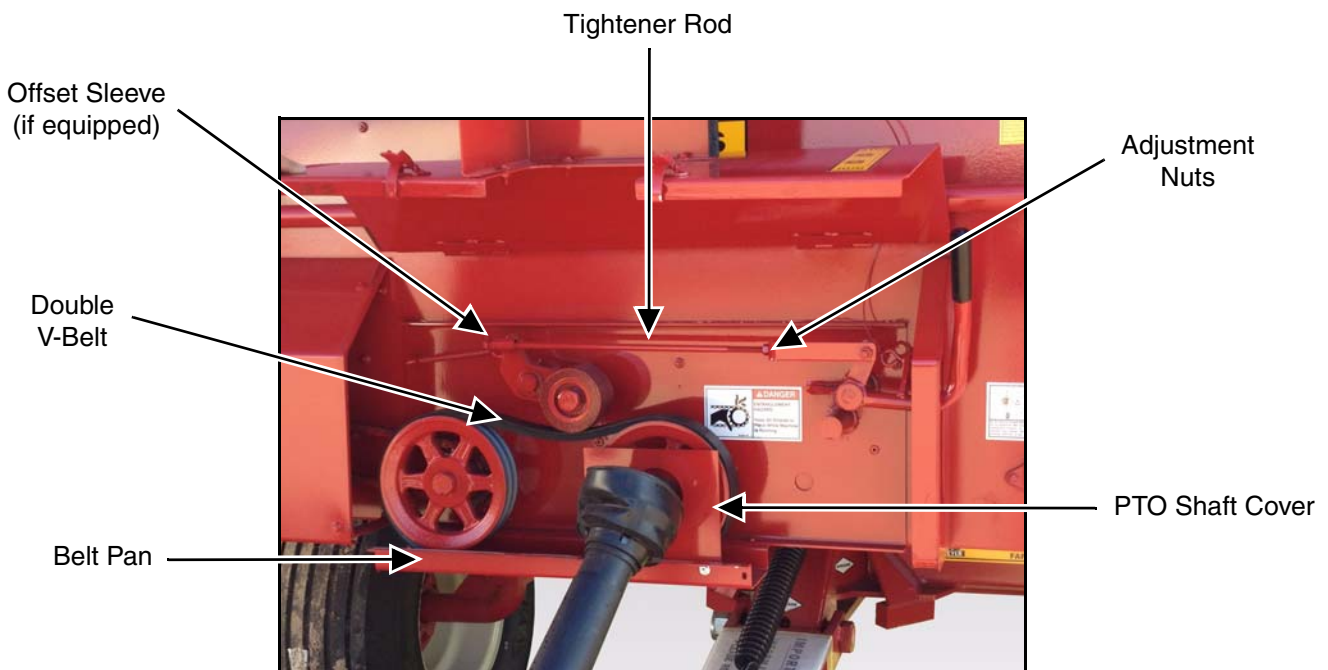


9. Move the Independent Outfeed Clutch control lever (Item 1) to "RUN" (down). Check for proper tension. Adjust as needed. (See 8.2.9 Independent Outfeed Clutch Adjustment on page 44.)
10. Refasten the PTO input shaft cover and belt pan.
11. Lower the front chain shield assembly and secure the two latches.
12. Raise the PTO drive shaft and place into the PTO storage bracket.



8.2.9 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.

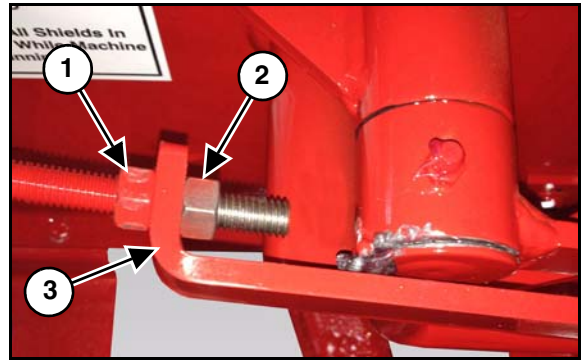


NOTE: Proper tension is when the belt is loose enough so that it does not engage when the handle is up (disengaged), and that it does not slip under load when the handle is down (engaged).

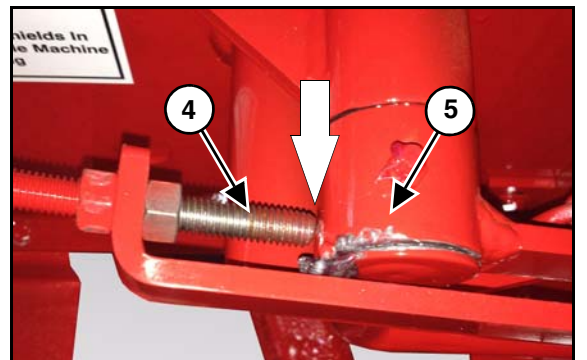
1. Loosen the nut(s) on the back / front side of the handle linkage, and then adjust the nuts on either side of the handle linkage.

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).

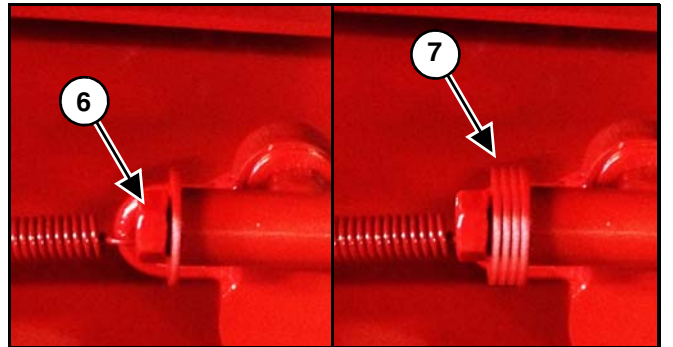
Decrease Tension - Loosen the back nut (Item 2), tighten the front nut (Item 1) against the handle linkage (Item 3) to relieve tension on the belt. When the desired tension has been removed, tighten the back nut against the handle linkage.



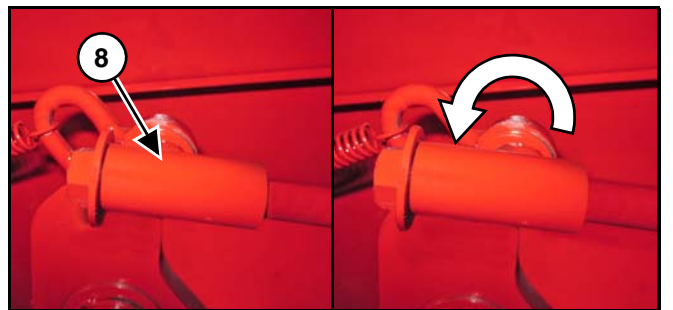
NOTE: The adjustment is maxed out when the rod (Item 4) hits the pivot (Item 5) when engaging the handle.



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 6), then add washers (Item 7) (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 8), flip so the long end of the sleeve is toward the head of the bolt.



8.3 STORING THE FORAGE BOX

LOCKOUT / TAGOUT the machine / forage box when preparing for storage. (See 5.4 SHUTOFF & LOCKOUT POWER on page 19.)

Sometimes it may be necessary to store your Meyer forage box for an extended period of time. Below is a list of items to perform before storage.

- Fully empty the forage from the box. (See 7.0 OPERATION on page 29.)
- Thoroughly clean the equipment.
 - Clean out all materials built-up around the augers.
 - Clean the front cross conveyor on the top pan and in the lower pan (chain return).
 - Clean out the “clean-out” panel.
 - Clean the rear gate shield.
 - Clean the inside of the drive shields.
- Lubricate the equipment. (See 8.1 LUBRICATION on page 37.)
- Apply oil to the cross conveyor and main apron chains and inspect all forage box components for wear or damage. Repair and replace components as necessary.
- Make appropriate adjustments to equipment. (See 8.2 ADJUSTMENTS on page 39.)
- Place PTO and 7-pin connector in the storage brackets (if equipped).
- Inspect the hitch and all welds on the equipment for wear and damage.
- Check for loose hardware, missing guards, or damaged parts.
- Check for damaged or missing safety signs (decals). Replace if necessary.
- Replace worn or damaged parts.
- Touch up all paint nicks and scratches to prevent rusting.
- Place the equipment in a dry protected shelter.
- Place the equipment flat on the ground.

8.4 RETURNING THE FORAGE BOX TO SERVICE

After the Meyer forage box has been in storage, it is necessary to follow a list of items to return the equipment to service.

- Be sure all shields and guards are in place.
- Lubricate the equipment.
- Connect to a tractor and operate equipment, verify all functions operate correctly.
- Check for leaks. Repair as needed.

9.0 PARTS REPLACEMENT



WARNING

Before servicing this equipment, ensure that all personnel, including family members are familiar with the equipment and the safety hazards that are present, along with the safety practices that should be observed while working in this equipment.



CAUTION

Inspect the chassis' axles, o-beams, spindles, tires, hitches & all safety shielding, safety signs and safety lighting regularly. These parts if not watched closely, could pose potential injury or death. If any part is found in need of repair, follow the SHUTOFF & LOCKOUT POWER recommendations and have qualified personnel repair immediately.

Any individual that will be adjusting, servicing, maintaining, or clearing an obstruction from this machine needs to ensure that this machine stays safely "OFF" until the adjustment, service, or maintenance has been completed, or when the obstruction has been cleared, and that all guards, shields, and covers have been restored to their original position. The safety of all individuals working on or around this machine, including family members, are affected. The following procedure will be referred to throughout this manual, so be familiar with the following steps.

Shutoff & Lockout Power Recommendations

1. Think, Plan and Check

- a. **Think** through the entire procedure and identify all the steps that are required.
- b. **Plan** what personnel will be involved, what needs to be shut down, what guards / shields need to be removed, and how the equipment will be restarted.
- c. **Check** the machine over to verify all power sources and stored energy have been identified including engines, hydraulic and pneumatic systems, springs and accumulators, and suspended loads.

2. Communicate - Inform everyone involved, including those working on or around this machine, that work is being done which involves keeping this machine safely "OFF".

3. Power Sources

- a. **LOCKOUT** - Shut off engines and take the key, or physically lock the start/on switch or control. Disconnect any power sources which are meant to be disconnected (i.e. electrical, hydraulic, and PTO of pull-type units).
- b. **TAGOUT** - Place a tag on the machine noting the reason for the power source being tagged out and what work is being done. This is particularly important if the power source is not within your sight and/or will need to be isolated for a longer period of time.

4. Stored Energy - Neutralize all stored energy from its power source. Ensure that this machine is level, set the parking brake, and chock the wheels. Disconnect electricity, block moveable parts, release or block spring energy, release pressure from hydraulic and pneumatic lines, and lower suspended parts to a resting position.

5. Test - Do a complete test and personally double check all of the above steps to verify that all of the power sources are actually disconnected and locked out.

6. Restore Power - When the work has been completed, follow the same basic procedures, ensuring that all individuals working on or around this machine are safely clear of the machine before locks and tags are removed and power is restored.

IMPORTANT

It is important that everyone who works on this equipment is properly trained to help ensure that they are familiar with this procedure and that they follow the steps outlined above. This manual will remind you when to **Shutoff & Lockout Power**.

At times parts on this implement will become worn or damaged. Performing repairs on this implement can pose a risk of injury including death. To reduce risk, the party that will be doing the repair should be very knowledgeable of the implement and the equipment that they will be using to do the repair.

- Review the repair so that a plan can be put together and the proper equipment can be used to repair this implement safely and correctly.
- Personal safety equipment may include items such as safety glasses, protective footwear, hearing protection, gloves, fire retardant clothes, etc.



WARNING

Crushing Hazard

Do Not work under suspended or blocked parts.



- The use of hoists and/or supports may be needed to handle heavy components.
- If the implement is being repaired in the field, make sure the parking brake of the tractor is engaged, the implement is on solid and level ground.
- Welding and torching should be done by properly trained individuals who have proven their skills.

IMPORTANT

Call the factory for any additional details you may need to perform the repair. Some parts may come with instruction sheets to assist in the repair. Instructions sheets may be provided with your parts order. Otherwise, if available, instruction sheets can be e-mailed or faxed for your convenience. Call Meyer Manufacturing Corporation toll free at 1-800-325-9103 or email sales@meyermfg.com.

NOTE: Be environmentally friendly and dispose of any waste materials properly. Recycle when appropriate.

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.

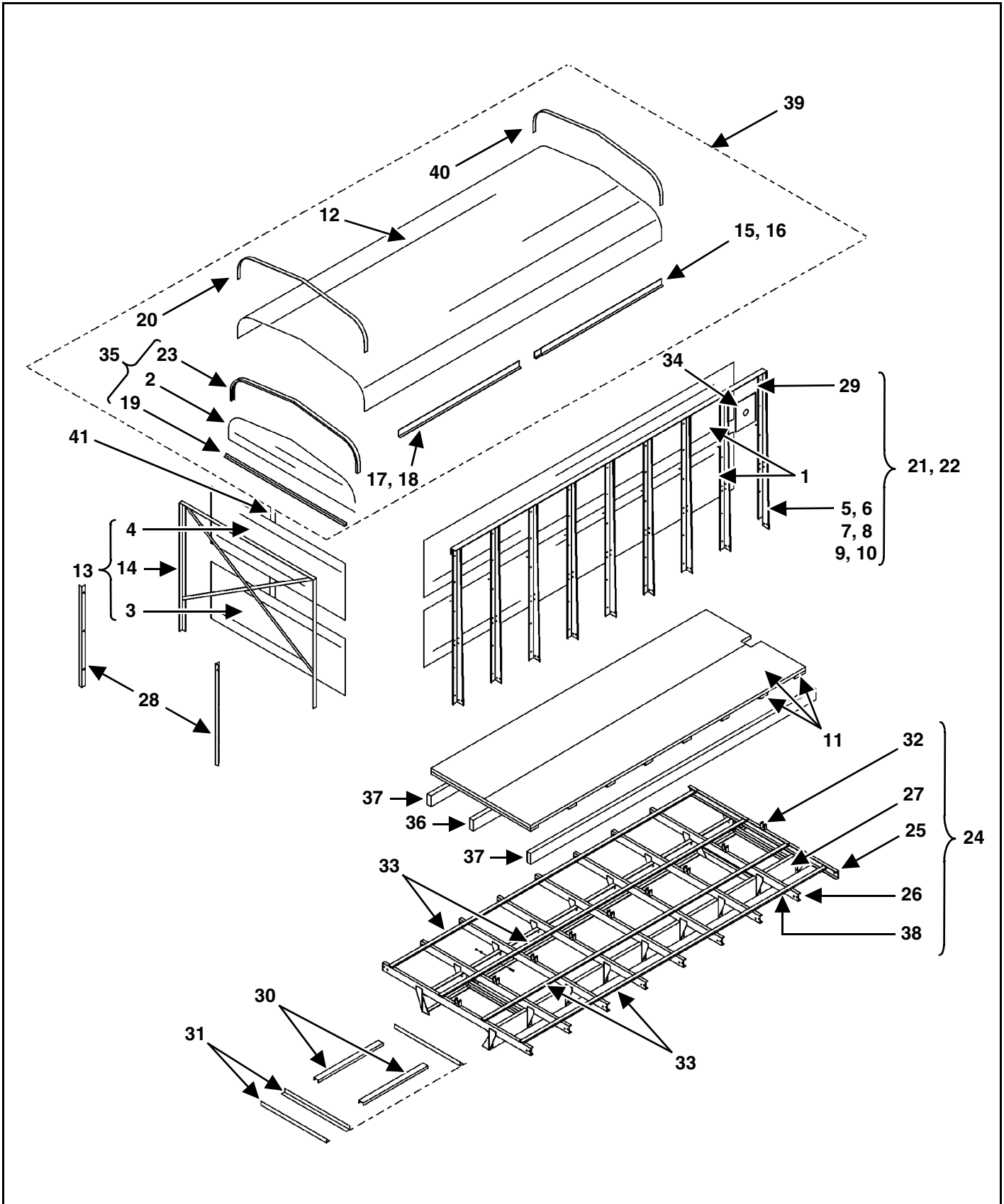
3500 SERIES



4500 / 4600 SERIES

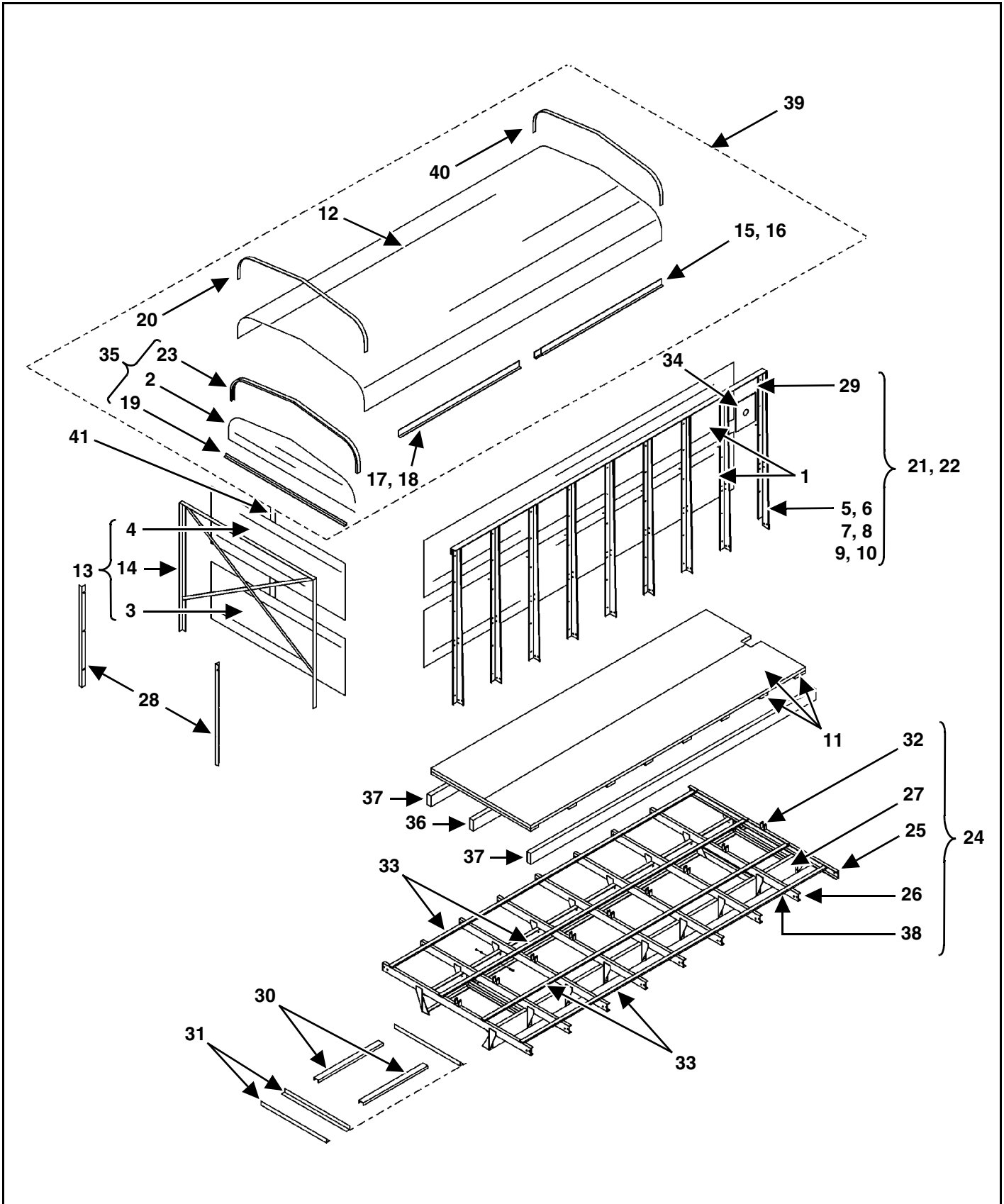


3500 SERIES BOX PARTS



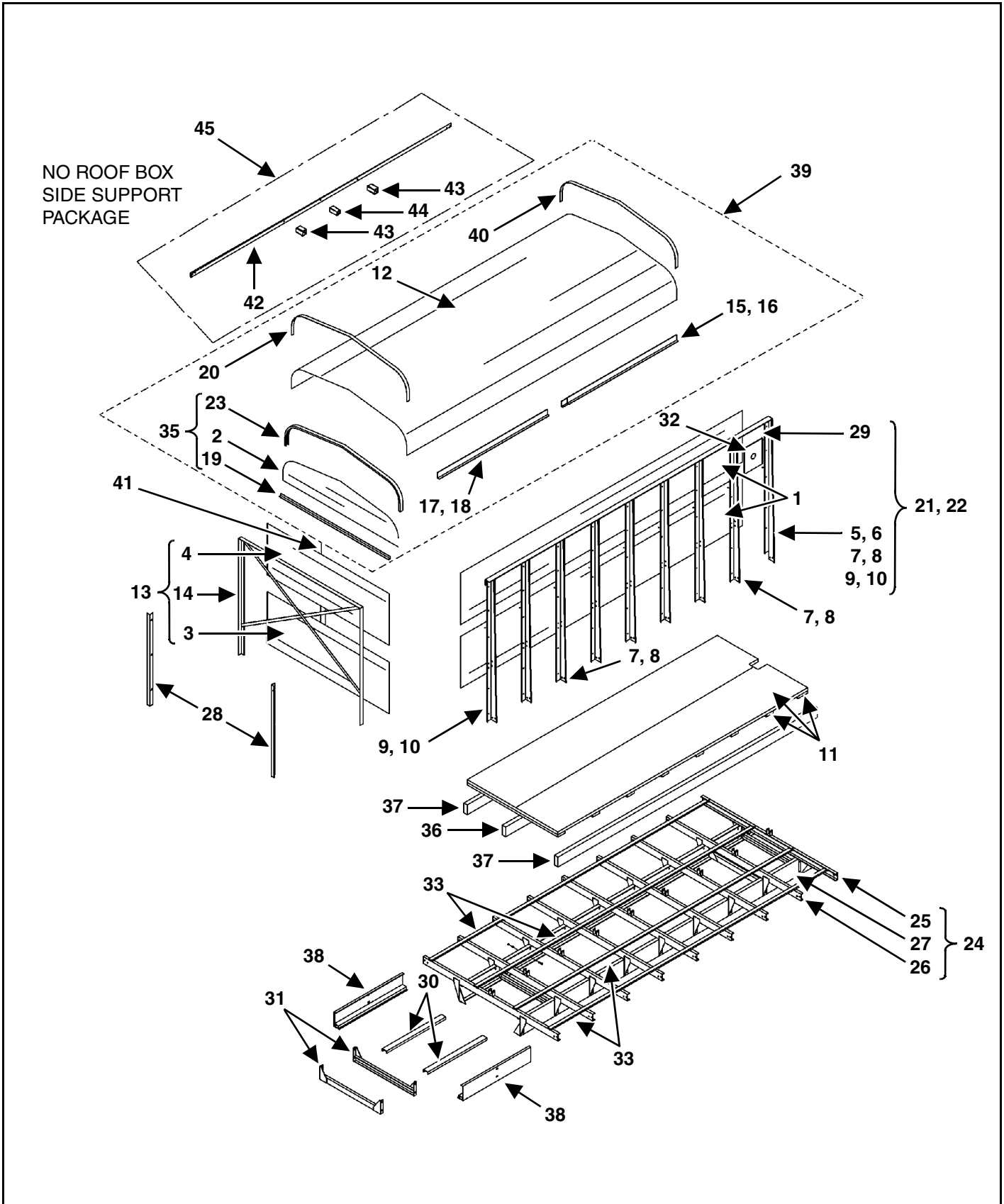
KEY	PART NUMBER	QTY	DESCRIPTION
1	761II-40.75-14		14' Side Panel, 20 Ga x 40-3/4 Painted
	761II-40.75-16		16' Side Panel, 20 Ga x 40-3/4 Painted
	761II-40.75-18		18' Side Panel, 20 Ga x 40-3/4 Painted
2	100-9995-120-1		Back Roof Panel, 20-3/8 x 86 Aluminized
3	100-9990-17-7		20 Ga Back End Gate Panel (bent) 40-3/4 x 85 Painted
4	100-9990-17-6		20 Ga Back End Gate Panel 40-3/4 x 85 Painted
5	100-9990-8-2		Front Right, Upright, 10 Ga x 82-1/2" (illustrated)
6	100-9990-8-1		Front Left, Upright, 10 Ga x 82-1/2"(not illustrated)
7	100-9990-8-6		Center Right, Upright, 10Ga x 82-1/2" (illustrated)
8	100-9990-8-5		Center Left, Upright, 10 Ga x 82-1/2" (not illustrated)
9	100-9990-8-4		Rear Right, Upright, 10 Ga x 82-1/2" (illustrated)
10	100-9990-8-3		Rear Left, Upright, 10 Ga x 82-1/2" (not illustrated)
11	100-9990-160		Floor Complete 14'
	100-9990-160-09		Floor Complete 14' (SN 09T5201/09T6201 & Later)
	100-9990-161		Floor Complete 16'
	100-9990-161-09		Floor Complete 16' (SN 09T5201/09T6201 & Later)
	100-9990-162		Floor Complete 18'
	100-9990-162-09		Floor Complete 18' (SN 09T5201/09T6201 & Later)
12	100-9990-13-2		Roof Panel Painted 15' 3"
	100-9990-14-2		Roof Panel Painted 17' 3"
	100-9990-15-8		Roof Panel Painted 19' 3"
13	100-9995-129		Back End Gate, Complete
14	100-9990-17-8		Back End Gate (frame only)
15	100-9990-61		Roof Angle Right (illustrated)
16	100-9990-60		Roof Angle Left (not illustrated)
17	100-9990-67-1		Right Roof Angle Ext. 14' (illustrated)
	100-9990-65-1		Right Roof Angle Ext. 16' (illustrated)
	100-9990-63-1		Right Roof Angle Ext. 18' (illustrated)
18	100-9990-66-1		Left Roof Angle Ext. 14' (not illustrated)
	100-9990-64-1		Left Roof Angle Ext. 16' (not illustrated)
	100-9990-62-1		Left Roof Angle Ext. 18' (not illustrated)
19	100-9990-15-9		Back Gate Panel Angle
20	100-9990-14-3		Roof Guard Strap - Rear
21	100-9994-4		Right Side, Complete 14' (illustrated)
	100-9994-6		Right Side, Complete 16' (illustrated)
	100-9994-8		Right Side, Complete 18' (illustrated)
22	100-9994-5		Left Side, Complete 14' (not illustrated)
	100-9994-7		Left Side, Complete 16' (not illustrated)
	100-9994-9		Left Side, Complete 18' (not illustrated)

3500 SERIES BOX PARTS (CONT'D)



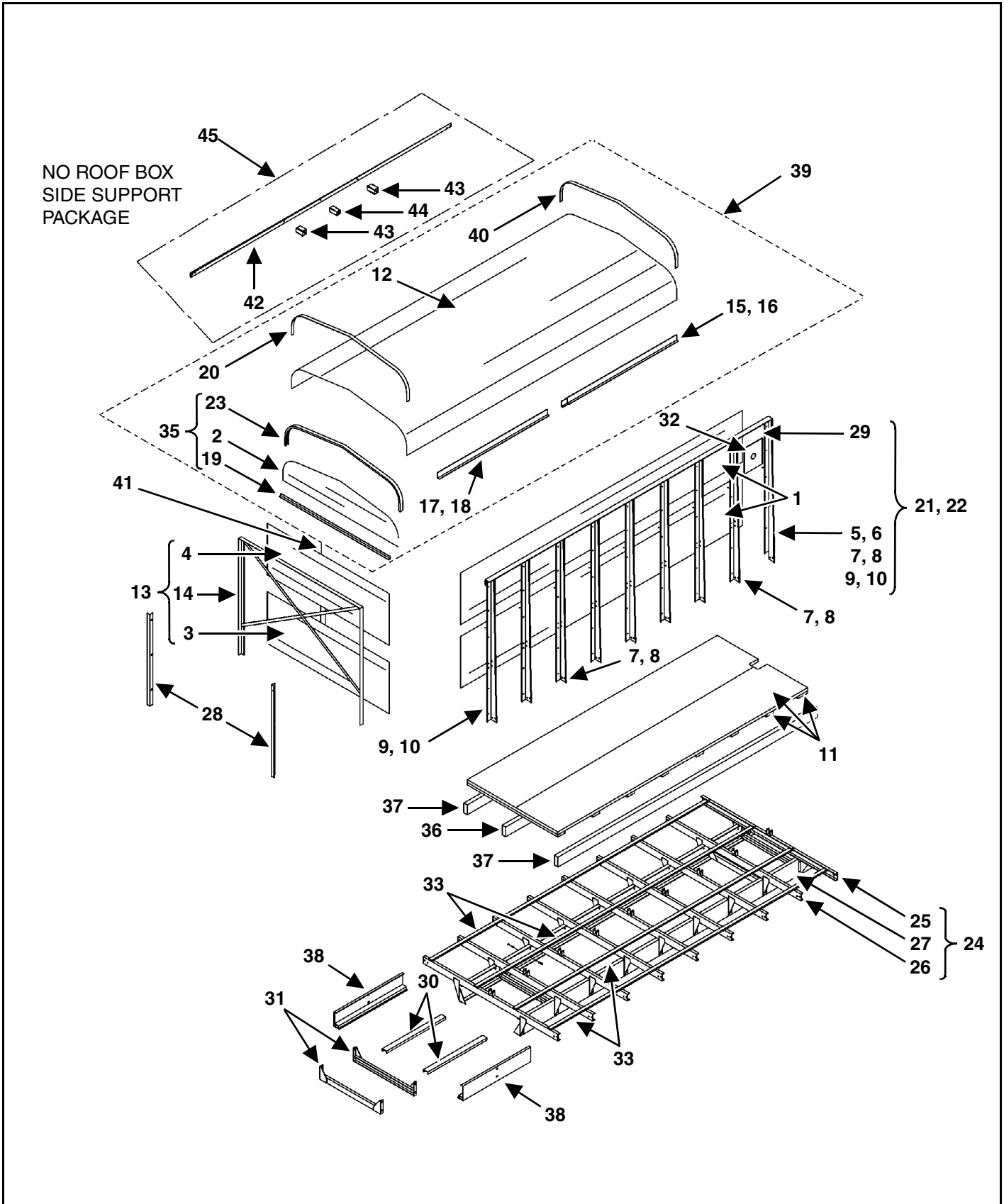
KEY	PART NUMBER	QTY	DESCRIPTION
23	100-9990-15-1		Roof Bow
24	100-9994-1		Bottom Frame, Complete 14'
	100-9994-2		Bottom Frame, Complete 16'
	100-9994-3		Bottom Frame, Complete 18'
25	100-9990-1-3		Front Cross Channel 94-1/2"
	100-9994-1-3		Front Cross Channel Gusset
26	100-9990-1-2		Cross Channel 94-1/2"
	100-9994-1-1		Cross Channel Gusset
27	100-9994-1-6		10" Channel Bed Piece (13'-10")
	100-9994-2-1		10" Channel Bed Piece (15'-10")
	100-9994-3-1		10" Channel Bed Piece (17'-10")
28	100-9990-16		Side End Gate Cap
29	100-9990-4-2		Top Rail 14'
	100-9990-6-2		Top Rail 16'
	100-9990-8-8		Top Rail 18'
30	100-9999-39		Stringer Support Channel
31	100-9994-1-2		Stringer Support Cross Angle
32	100-9999-2-3		Cross Channel Center U Piece
33	701-.75-1.75-16		14' Chain Slide
	701-.75-1.75-16		16' Chain Slide
	701-.75-1.75-18		18' Chain Slide
34	25-0142		3rd Auger Bracket, less Tightener
35	100-9995-120		Rear Roof Assembly Complete
36	100-9997-1		Center Floor Support, 2 x 6 x 14'
	100-9997-2		Center Floor Support, 2 x 6 x 16'
	100-9999-6		Center Floor Support, 2 x 6 x 18'
37	100-9998-9		Outer Floor Support 3 x 6 x 14'
	100-9998-10		Outer Floor Support 3 x 6 x 16'
	100-9999-7		Outer Floor Support 3 x 6 x 18'
38	100-9994-1-5		Chain Rail Tab
39	100-9995-133		3514 Roof Assembly, Complete
	100-9995-134		3516 Roof Assembly, Complete
	100-9995-135		3518 Roof Assembly, Complete
40	100-9990-14-4		Front Roof Protector
41	100-9990-17-3		Center Back Gate Angle

4500/4600 SERIES BOX PARTS



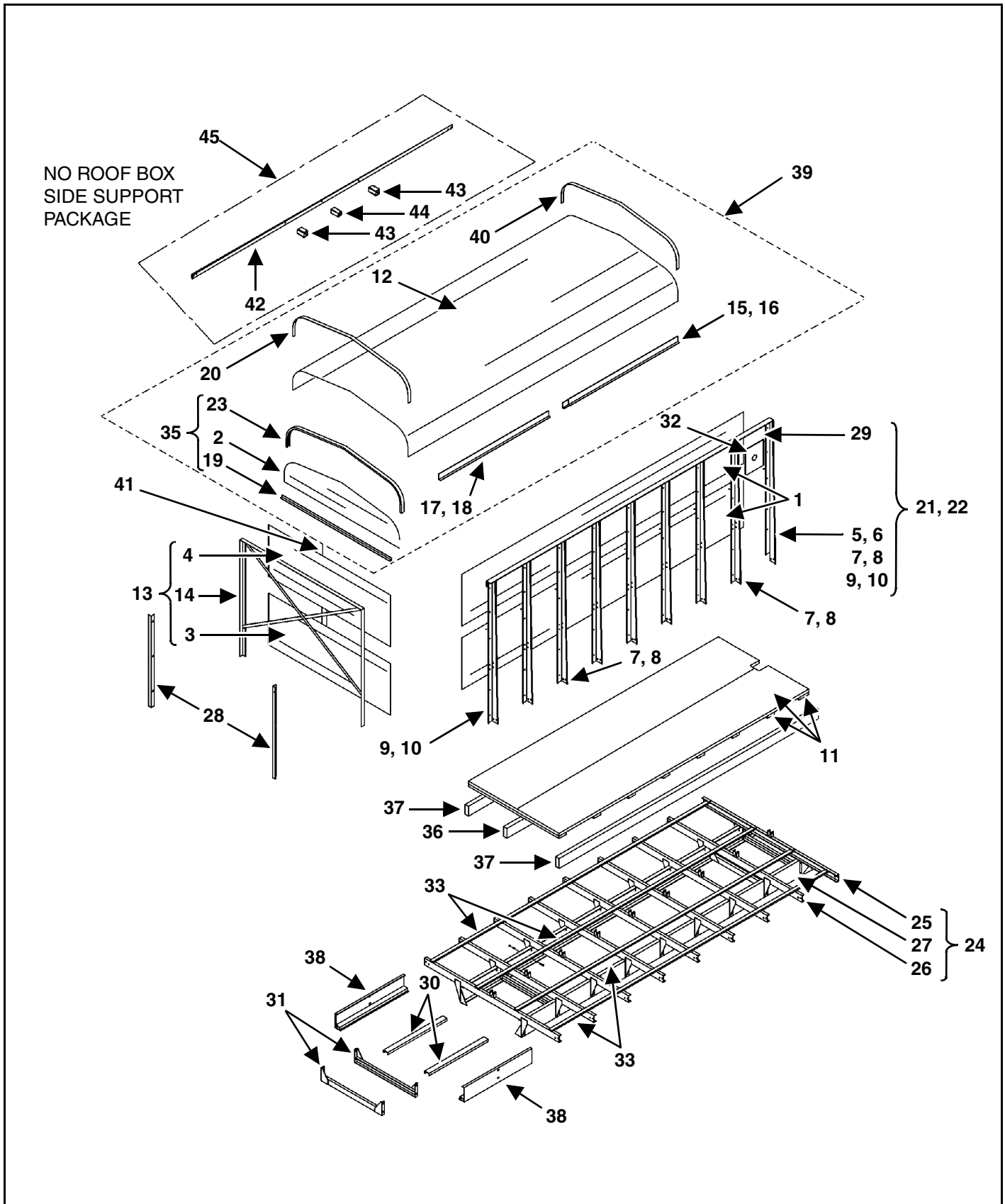
KEY	PART NUMBER	QTY	DESCRIPTION
1	761II-40.75-14		14' Side Panel, 20 Ga x 40-3/4 Painted
	761II-40.75-16		16' Side Panel, 20 Ga x 40-3/4 Painted
	761II-40.75-18		18' Side Panel, 20 Ga x 40-3/4 Painted
	761II-40.75-20		20' Side Panel, 20 Ga x 40-3/4 Painted
	761II-40.75-22		22' Side Panel, 20 Ga x 40-3/4 Painted
	761II-40.75-24		24' Side Panel, 20 Ga x 40-3/4 Painted
2	100-9990-15-4		Back Roof Panel, 20-3/8 x 86 Painted
3	100-9990-17-7		20 Ga Back End Gate Panel (bent) 40-3/4 x 85 Painted
4	100-9990-17-6		20 Ga Back End Gate Panel 40-3/4 x 85, Painted
5	100-9990-8-2		Front Right, Upright, 10 Ga x 82-1/2 (illustrated)
6	100-9990-8-1		Front Left, Upright, 10 Ga x 82-1/2, (not illustrated)
7	100-9990-8-6		Center Right, Upright, 10 Ga x 82-1/2, (illustrated)
8	100-9990-8-5		Center Left, Upright, 10 Ga x 82-1/2 (not illustrated)
9	100-9990-8-4		Rear Right, Upright, 10 Ga x 82-1/2 (illustrated)
10	100-9990-8-3		Rear Left, Upright, 10 Ga x 82-1/2 (not illustrated)
11	100-9990-160		Floor Complete 14'
	100-9990-160-09		Floor Complete 14' (SN 09T5201/09T6201 & Later)
	100-9990-161		Floor Complete 16'
	100-9990-161-09		Floor Complete 16' (SN 09T5201/09T6201 & Later)
	100-9990-162		Floor Complete 18'
	100-9990-162-09		Floor Complete 18' (SN 09T5201/09T6201 & Later)
	100-9990-163		Floor Complete 20'
	100-9990-163-09		Floor Complete 20' (SN 09T5201/09T6201 & Later)
	100-9990-164		Floor Complete 22'
	100-9990-164-09		Floor Complete 22' (SN 09T5201/09T6201 & Later)
12	100-9990-13-2		Roof Panel Painted 15' 3" (14' Box)
	100-9990-14-2		Roof Panel Painted 17' 3" (16' Box)
	100-9990-15-8		Roof Panel Painted 19' 3" (18' Box)
	100-9990-51-1		Roof Panel Painted 21' 3" (20' Box)
13	100-9990-17		Back End Gate, Complete
14	100-9990-17-8		Back End Gate (frame only)
15	100-9990-61		Roof Angle Right (illustrated)
16	100-9990-60		Roof Angle Left (not illustrated)
17	100-9990-67-1		Right Roof Angle Ext. 14' (illustrated)
	100-9990-65-1		Right Roof Angle Ext. 16' (illustrated)
	100-9990-63-1		Right Roof Angle Ext. 18' (illustrated)
	100-9990-70		Right Roof Angle Ext. 20' (illustrated)
	100-9990-49-2		Right Roof Angle Ext. 22' (illustrated)
18	100-9990-66-1		Left Roof Angle Ext. 14' (not illustrated)
	100-9990-64-1		Left Roof Angle Ext. 16' (not illustrated)
	100-9990-62-1		Left Roof Angle Ext. 18' (not illustrated)
	100-9990-69		Left Roof Angle Ext. 20' (not illustrated)
	100-9990-49-1		Left Roof Angle Ext. 22' (not illustrated)
19	100-9990-15-9		Back Gate Panel Angle
20	100-9990-14-3		Roof Guard Strap - Rear

4500/4600 SERIES BOX PARTS (CONT'D)



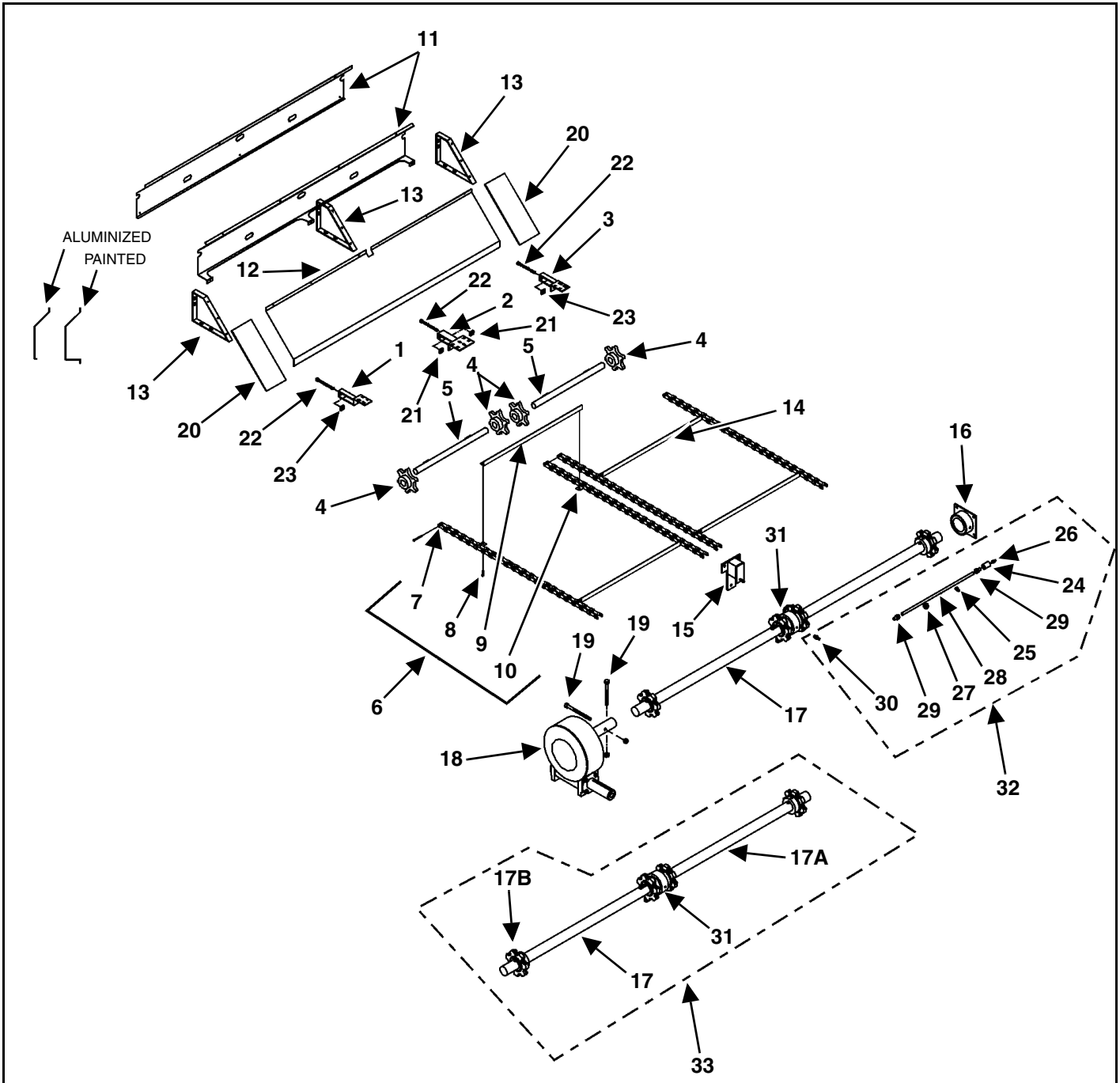
KEY	PART NUMBER	QTY	DESCRIPTION
21	100-9990-5		Right Side, Complete 14' (illustrated)
	100-9990-7		Right Side, Complete 16' (illustrated)
	100-9990-9		Right Side, Complete 18' (illustrated)
	100-9990-54		Right Side, Complete 20' (illustrated)
	100-9990-97-9		Right Side, Complete 22' (illustrated)
	100-9990-96-5		Right Side, Complete 24' (illustrated)
22	100-9990-4		Left Side, Complete 14' (not illustrated)
	100-9990-6		Left Side, Complete 16' (not illustrated)
	100-9990-8		Left Side, Complete 18' (not illustrated)
	100-9990-55		Left Side, Complete 20' (not illustrated)
	100-9990-97-8		Left Side, Complete 22' (not illustrated)
	100-9990-96-4		Left Side, Complete 24' (not illustrated)
23	100-9990-15-1		Roof Bow
24	100-9990-3		Bottom Frame, Complete 14'
	100-9990-2		Bottom Frame, Complete 16'
	100-9990-1		Bottom Frame, Complete 18'
	100-9990-50		Bottom Frame, Complete 20'
	100-9990-53-3		Bottom Frame, Complete 22'
	100-9990-59-2		Bottom Frame, Complete 24'
25	100-9990-1-4		Front Cross Channel 94-1/2 w/Gussets
26	100-9990-1-5		Cross Channels 94-1/2 w/Gussets
27	100-9990-3-1		10" Channel Bed Piece (13'-10")
	100-9990-2-1		10" Channel Bed Piece (15'-10")
	100-9990-1-1		10" Channel Bed Piece (17'-10")
	100-9990-50-1		10" Channel Bed Piece (19'-10")
	100-9990-53-1		10" Channel Bed Piece (21'-10")
	100-9990-135-1		10" Channel Bed Piece (23'-10")
28	100-9990-16		Side End Gate Cap
29	100-9990-4-2		Top Rail 14'
	100-9990-6-2		Top Rail 16'
	100-9990-8-8		Top Rail 18'
	100-9990-52-1		Top Rail 20'
	100-9990-97-7		Top Rail 22'
	100-9990-96-1		Top Rail 24'
30	100-9999-39		3" Side Channel Support
31	100-9999-38		Main Stringer - Support
32	25-0142		3rd Auger Bracket, Less Tightener
33	701-.75-1.75-16		14' Chain Slide
	701-.75-1.75-16		16' Chain Slide
	701-.75-1.75-18		18' Chain Slide
	701-.75-1.75-20		20' Chain Slide

4500/4600 SERIES BOX PARTS (CONT'D)



KEY	PART NUMBER	QTY	DESCRIPTION
35	100-9990-15-11		Rear Roof Assembly Complete
36	100-9997-1		Center Floor Support, 2 x 6 x 14'
	100-9997-2		Center Floor Support, 2 x 6 x 16'
	100-9999-6		Center Floor Support, 2 x 6 x 18'
	100-9999-75		Center Floor Support, 2 x 6 x 20'
37	100-9998-9		Outer Floor Support 3 x 6 x 14'
	100-9998-10		Outer Floor Support 3 x 6 x 16'
	100-9999-7		Outer Floor Support 3 x 6 x 18'
	100-9999-76		Outer Floor Support 3 x 6 x 20'
38	100-9990-1-10		Rear Steel Stringer, Reinforcing Plate (18'+ Floor Lengths)
39	100-9990-14		4516, 4616 Roof Assembly, Complete
	100-9990-15		4518, 4618 Roof Assembly, Complete
	100-9990-52		4620 Roof Assembly, Complete
40	100-9990-14-4		Front Roof Protector
41	100-9990-17-3		Center Back Gate Angle
42	100-9990-8-11		16' & 18' Box, Side Support Strap 171"
	100-9990-52-2		20' & 22' Box, Side Support Strap 219"
43	100-9990-52-4		Side Support End Tube
44	100-9990-52-3		Side Support Center Tube
45	TSS-SS-16-PKG		16' & 18' Side Support Package
	TSS-SS-20-PKG		20' & 22' Side Support Package

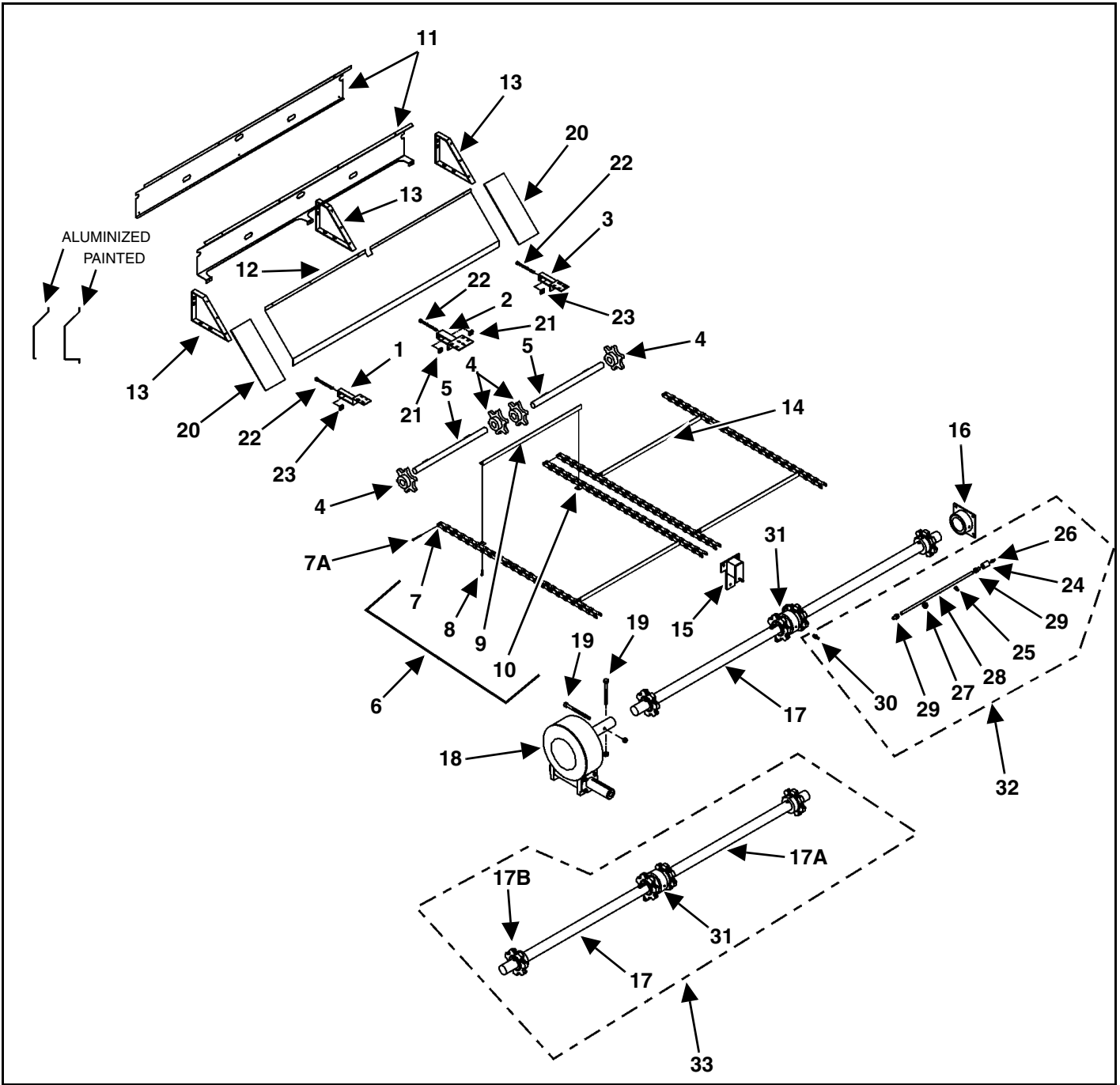
TSS MAIN APRON



KEY	PART NUMBER	QTY	DESCRIPTION
1	25-0146	1	Tightener Bracket (Right) (Prior to SN 02T5402, 02T6281)
	25-0246	1	Tightener Bracket (Right) (SN 02T5402, 02T6281 & Later)
2	25-0145	1	Tightener Bracket (Center) (Prior to SN 02T5402, 02T6281)
	25-0245	1	Tightener Bracket (Center) (SN 02T5402, 02T6281 & Later)
3	25-0144	1	Tightener Bracket (Left) (Prior to SN 02T5402, 02T6281)
	25-0244	1	Tightener Bracket (Left) (SN 02T5402, 02T6281 & Later)
4	10-0054	4	#67 - 6 Tooth Sprocket
5	23-0043	2	Idler Shaft
6	11-0081	2	Chain Assembly 14' Floor, 667H (35/4500 Standard)
	11-0082	2	Chain Assembly 16' Floor, 667H (35/4500 Standard)
	11-0083	2	Chain Assembly 18' Floor, 667H (35/4500 Standard)
	11-0084	2	Chain Assembly 16' Floor, 667X (35/4500 Optional) (4600 Standard)
	11-0085	2	Chain Assembly 18' Floor, 667X (35/4500 Optional) (4600 Standard)
	11-0098	2	Chain Assembly 20' Floor, 667X (35/4500 Optional) (4600 Standard)
	11-0129	2	Chain Assembly 22' Floor, 667X (35/4500 Optional) (4600 Standard)
7	11-0068-3	A/R	Pintle Chain Link - D667H
	11-0008-1-D	A/R	Pintle Chain Link - D667X
8	11-0008-2	A/R	Rivet, 3/8" x 1"
9	11-0080	A/R	Slat Only
10	11-0068-2	A/R	Attachment Link - D667H
	11-0008-3	A/R	Attachment Link - D667X
11	24-0128	1	Rear Shield, 3500 Series (Prior To SN 11T5301)
	24-0127	1	Rear Shield, 4500/4600 Series (Prior To SN 11T5301 & 11T6266)
	24-0131	1	Rear Shield W/Light Cutouts, 35/45/4600 Series (SN 11T5301, 11T6266 & Later)
12	24-0090	1	Deflector Shield
13	25-0141	3	Bracket, Deflector Shield Support
14	11-0081-2	A/R	Chain Slat w/attachments-667H
	11-0084-2	A/R	Chain Slat w/attachments-667X
15	25-0018	1	Bearing Support Bracket (18' Implements & Shorter)
	25-0204	1	Bearing Support Bracket (20' Implements & Longer)
16	14-0009-T	1	Main Drive Shaft Bearing (Prior to SN 09T5201, 09T6201)
	14-0053	1	Main Drive Shaft Bearing (SN 09T5201, 09T6201 & Later)
17	23-0046-HD	1	Main Drive Pipe Assembly 3500/4500 Series (Prior to SN 09T5201)
	23-0047-HD	1	Main Drive Pipe Assembly 4600 Series (Prior to SN 09T6201)
	23-0155-1-1045	1	Main Drive Shaft (SN 09T5201, 09T6201 & Later)
17A	10-0094-F	4	Front Drive Sprocket 2" B (SN 09T5201, 09T6201 & Later)
17B	35-0008	4	1/2 x 1/2 x 2 Square Key (SN 09T5201, 09T6201 & Later)
18	19-0257	1	35/4500 Lower Gear Reducer w/Output Shaft (Prior to SN 09T5201)
	19-0257A	1	35/4500 Lower Gear Reducer Less Output Shaft (SN 09T5201 & Later)
	19-0151-AS	1	Lower Gear Reducer, 4600 (Prior to SN 09T6201)
	19-0151	1	Lower Gear Reducer, 4600, Less Shaft (SN 09T6201 & Later)

(SPECIFY -RH FOR RH DISCHARGE)

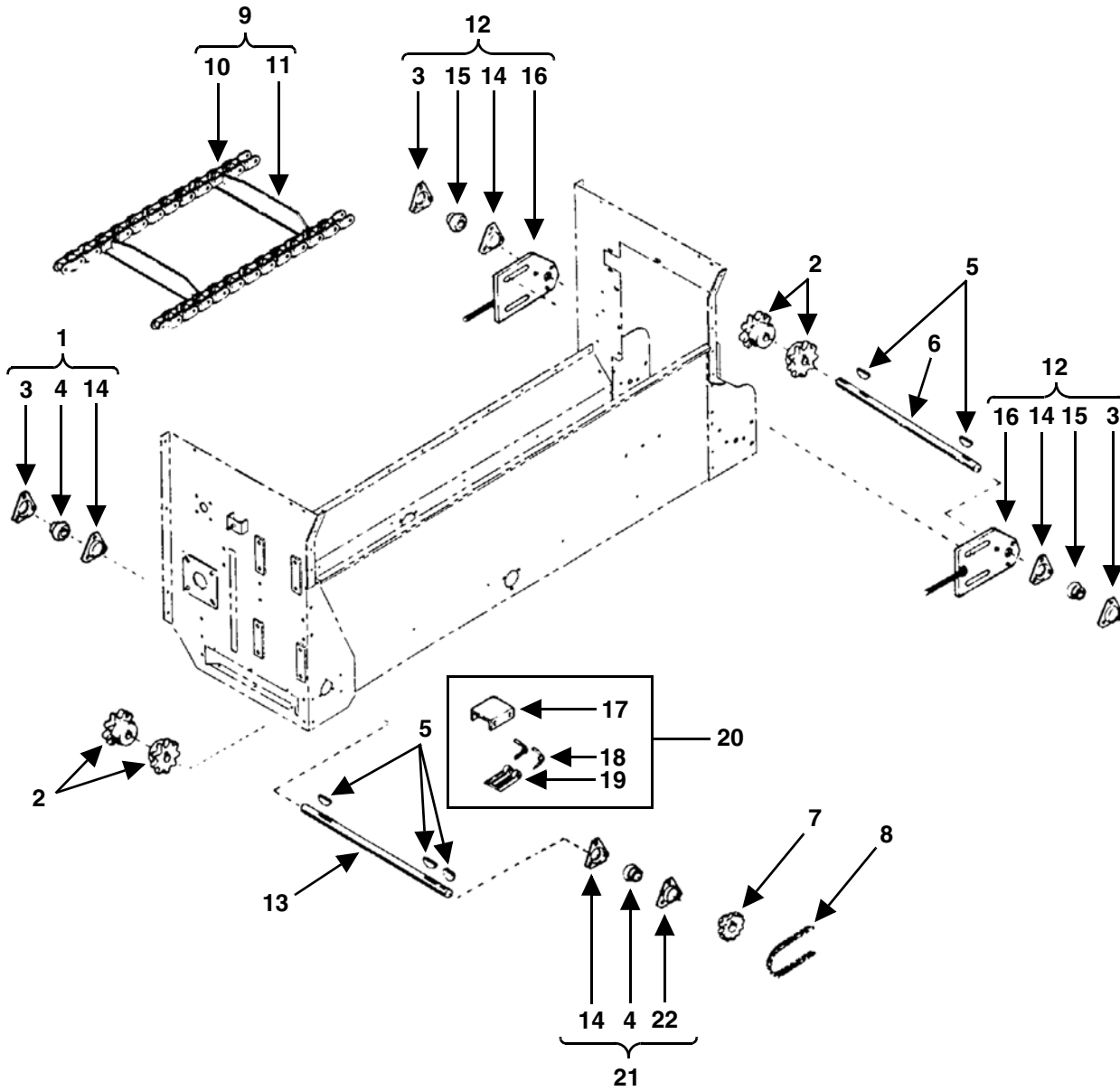
TSS MAIN APRON (CONT'D)



KEY	PART NUMBER	QTY	DESCRIPTION
19	33-0013	2	Bolt, 1/2 x 3-1/2 Grade 5 w/locknut, 3500/4500 (Prior to SN 09T5201)
	33-0017	2	Bolt, 5/8 x 3-1/2 Grade 5 w/locknut, 4600 (Prior to SN 09T6201)
20	49-0006	2	Rear Deflector Shield Belting
21	25-0147	2	Tightener Nut Center
22	830-5013-7Z	4	Tightener Bolt
23	25-0152	2	Tightener Nut Outer
24	30-0009	1	1/8" NPT Coupler
25	32-0024	1	9/32" Loom Clamp
26	30-0002	1	1/8" NPT Straight Zerk
27	33-1003	1	Rubber Grommet
28	735-.25CT	By the ft.	Copper Tube Grease Line
29	930-3602	2	Male Brass Compression Fitting
30	30-0018	1	1/8 x 1/8 45° St. Elbow
31	14-0035	1	Split Center Bearing (Prior to SN 09T5201, 09T6201)
	14-0054-S	1	Split Center Bearing (SN 09T5201, 09T6201 & Later)
32	933-3637	1	Center Bearing Grease Line Assembly
33	23-0165	1	Main Roller Assembly w/Sprockets, Keys & Center Bearing (SN 09T5201, 09T6201 & Later)

KEY	PART NUMBER	QTY	DESCRIPTION
1	46-0001-66	1	Stop - Run Decal
2	25-0148-2	1	RH Top Auger Extension
3	27-0027	1	Top Apron Pan
4	31-0006-2	1	Expanded Metal Screen-(Old style only)
5	See Key #24	1	Upper Spillage Guard-Replace w/Solid Panel
6	24-0123-2	2	Hinge Only, 4" Long- Heavy Duty
7	25-0148-1	1	LH Top Auger Extension
8	39-0017	1	Discharge Frame
9	25-0006	1	PTO Hanger Bracket
10	24-0099	1	Auger Guard
11	27-0028	1	Apron Pan (Prior to SN 06T5304, 06T6229)
	27-0031	1	Apron Pan (SN 06T5304, 06T6229 & Later)
	27-0028-RH	1	R.H. Apron Pan (Prior to SN 06T5304, 06T6229)
	27-0031-RH	1	R.H. Apron Pan (SN 06T5304, 06T6229 & Later)
12	24-0103	2	Access Cover
	803-10-5	4	#10 Sheet Metal Screw x 1/2" (Ground Down)
13	39-0019	1	Pan Support Bracket (Prior to SN 06T5304, 06T6229)
	39-0024	1	Pan Support Bracket (SN 06T5304, 06T6229 & Later)
	39-0019-RH	1	R.H. Pan Support Bracket (Prior to SN 06T5304, 06T6229)
	39-0024-RH	1	R.H. Pan Support Bracket (SN 06T5304, 06T6229 & Later)
14	39-0021	1	RH Side Plate Weldment
	(See Page 70)	1	RT160 Right End Frame, Welded Assembly
15	27-0026	1	TSS Clean-Out Panel
16	43-0014	4	Gearbox Spacer (weld to end Frame) T500 Only
17	49-0016	1	Main Roller Belting
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	24-0059	1	Left Conveyor Shaft Shield
22	31-0006-3	1	Spillage Screen Block
23	33-0032	1	Hold Down Strap
24	31-0013	1	Solid Spillage Guard-Replaces Old Style W/Screen
	31-0013-RH	1	Right Hand Unload Spillage Guard
25	25-0200	1	TSS X-Apron Front Hold Down
	25-0200-RH	1	TSS Right Hand X-Apron Front Hold Down
26	25-0201	1	TSS X-Apron Rear Hold Down (Prior to SN 06T5304, 06T6229)
	25-0203	1	TSS X-Apron Rear Hold Down (SN 06T5304, 06T6229 & Later)
27	25-0265-1	1	Center, Front Shield Bracket
28	24-0123	1	Hinged Front Chain Shield Assembly
29	24-0122	1	Clutch Front Shield End Cap
30	31-0005	1	PTO Guard (LH)
31	32-0001-1	2	Door Catch, Latch
32	24-0124	1	RF Stationary Chain Shield
33	25-0261	1	Clutch Bottom Bracket, Belt Pan
34	24-0125-1	1	Clutch, PTO Shaft Cover
35	25-0266-1	1	RH, Front Shield Bracket
36	24-0010-2	1	Front Shield Angle Clip
37	39-0015-1	1	Left End Frame Tab (SN 06T5304, 06T6229 & Later)
38	39-0018-1	1	Right Hand End Frame Seal Plate
39	25-0148-2-12	1	Auger Plate Ext., RH, Optional High Sided Models
40	25-0148-1-12	1	Auger Plate Ext., LH, Optional High Sided Models
NS	TSS-POLY-CC	1	Poly Cross Conveyor Option for Units without Extension (Optional)
NS	TSS-POLY-CC-EXT	1	Poly Cross Conveyor Option for Units with 2' Extension (Optional)

TSS CROSS CONVEYOR W/IOC



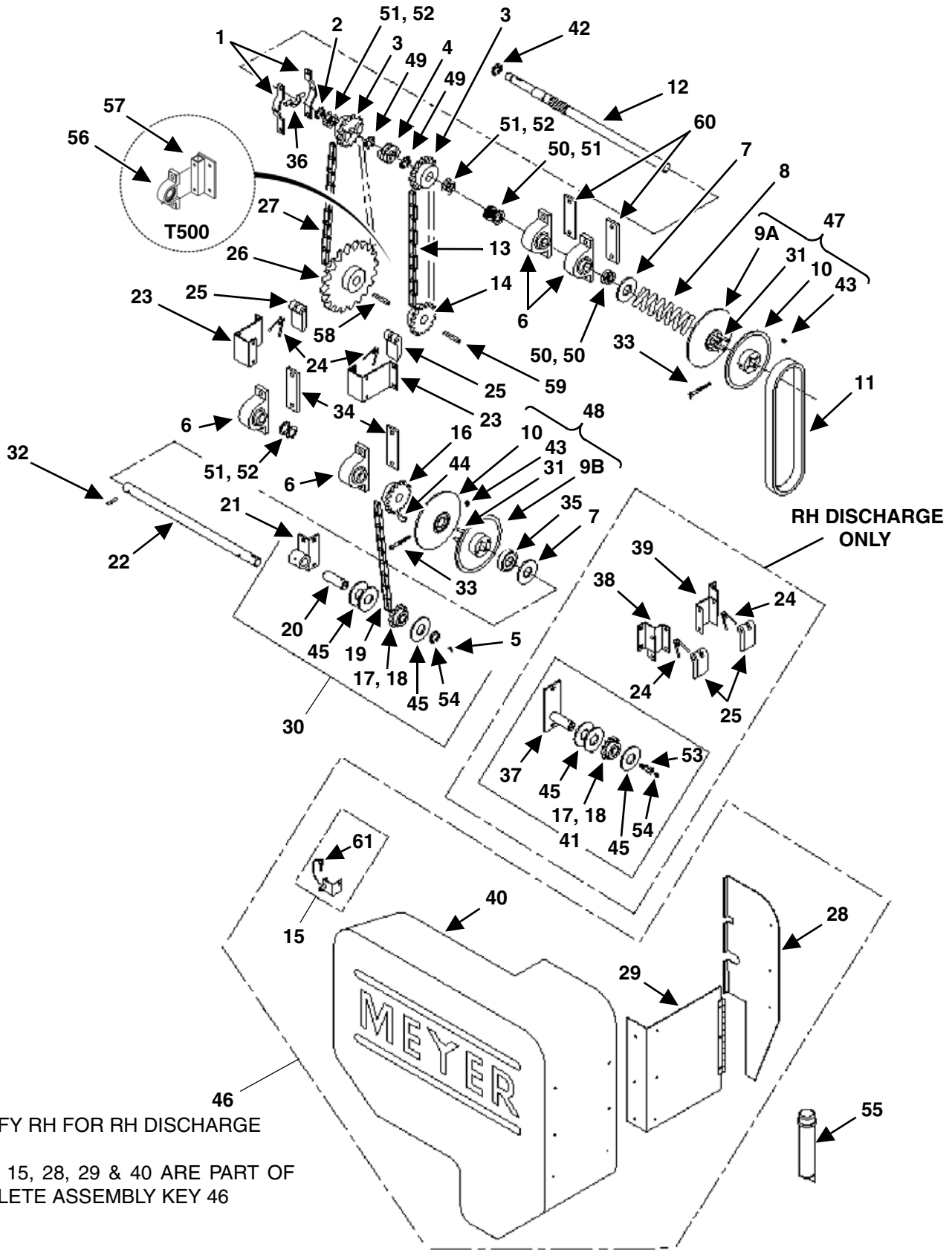
IF YOUR UNIT IS OPTIONAL RH DISCHARGE,
OPPOSITE TO ILLUSTRATION, SPECIFY LISTED
PART NO. FOLLOWED BY -RH

KEY	PART NUMBER	QTY	DESCRIPTION
1	14-0004	1	Bearing Assembly, 1" W/90° Grease Fitting
2	10-0008	4	Sprocket, Number 55-8 Tooth
3	14-0057-1	3	3 Hole Flange w/Straight Grease Fitting for 1" Bearing
4	14-0004-3 -BTS	4	Bearing, 1" w/collar
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 (Variable Speed)
	10-0019	1	Sprocket, 50B22, 1" Bore (2-Speed Units)
8	11-0111	1	#50-144 Roller Chain (Prior to SN 09T5201, 09T6201)
	11-0140	1	#50-142 Roller Chain (SN 09T5201, 09T6201 & Later)
9	11-0059-D	1	Extension Pintle Chain Assembly Complete (See Page 118)
	11-0060-D	1	Regular Pintle Chain Assembly Complete
10	11-0006-1	206	Link, Pintle Chain (W/2 pins & cotter pins)
11	11-0006-2	16	Chain Slat W/Attachments
12	14-0022	2	Tightener Bearing Assembly
13	23-0008	1	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
16	25-0074	2	Bracket, Tightener Bearing
17	25-0011	1	Bracket, Chain Tightener
18	29-0002	2	Spring, Chain Tightener
19	41-0001	1	Tightener 5", Nylon Slide
20	41-0024	1	Tightener Assembly
21	14-0004	1	Bearing Assembly, 1" W/90° Grease Fitting
22	14-0059-1	1	3 Hole Flange W/90° Grease Fitting for 1" Bearing

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
	14-0002-3G	4	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

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	25-0475	1	RT160 Speed Control Brace
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	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	25-0476	1	Variable Speed Control Arm Mount Brace
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

TSS VARIABLE SPEED CLUSTER DRIVE W/IOC
 Prior to SN 16T5201, 15T6223



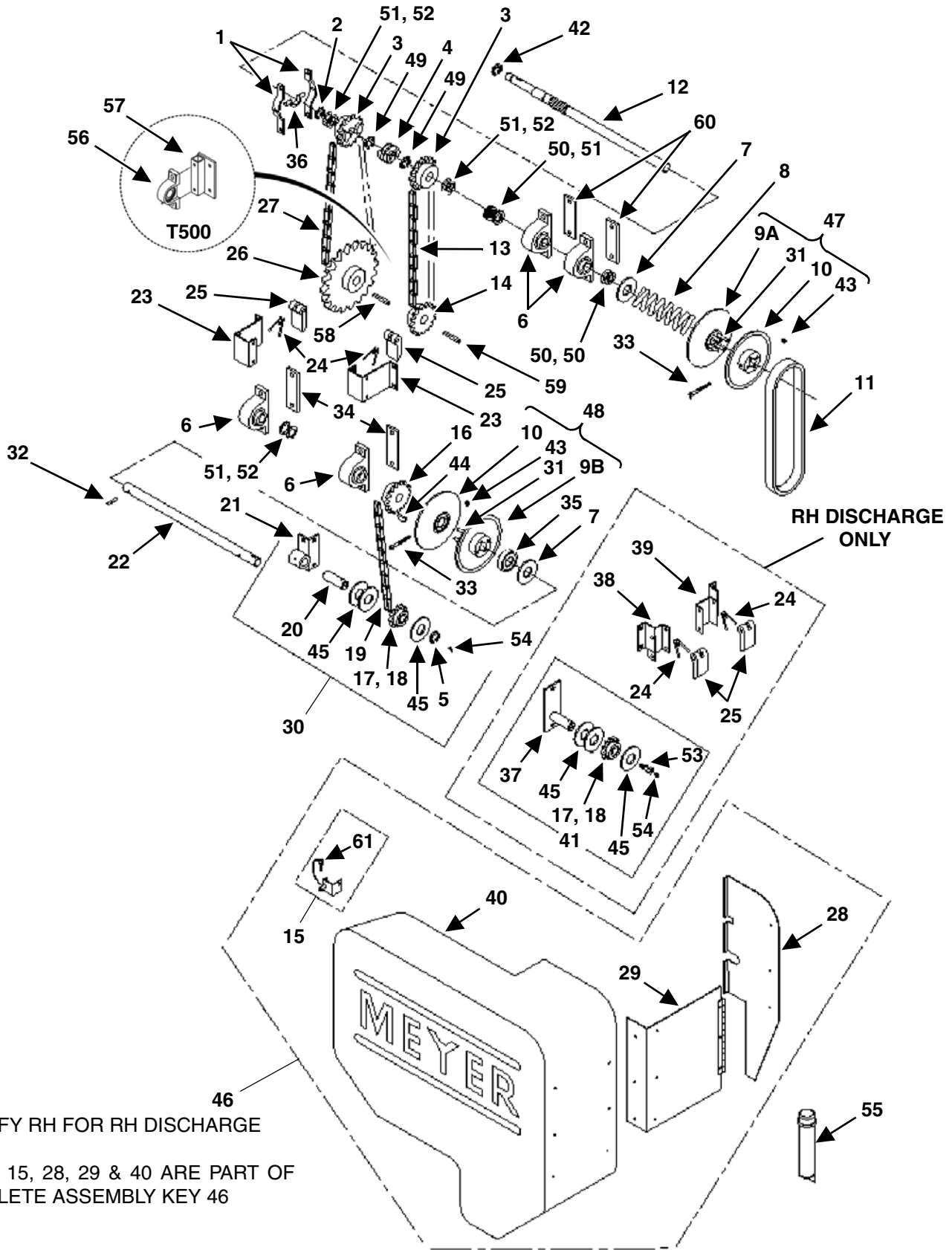
SPECIFY RH FOR RH DISCHARGE

ITEMS 15, 28, 29 & 40 ARE PART OF COMPLETE ASSEMBLY KEY 46

KEY	PART NUMBER	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	1	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	2	Rubber O-Ring Only
10	12-0010-HD	2	Fixed Sheave Half
11	49-0013	1	Belt
12	19-0015-1	1	Upper Gearbox Input Shaft
13	11-0088	1	#50-69 Roller Chain for 3500/4500 (Prior to SN 09T5201)
	11-0009	1	#50-72 Roller Chain for 3500/4500 (SN 09T5201 Through 15T5400, 15T6222)
	11-0009	1	#50-72 Roller Chain for 4600 (Prior to SN 09T6201)
	11-0016	1	#50-75 Roller Chain for 4600 (SN 09T6201 Through 15T5400, 15T6222)
14	10-0064	1	Sprocket 50B19 1"B, 3500/4500 (Prior to SN 09T5201)
	10-0042	1	Sprocket 50B24 1"B, 3500/4500 (SN 09T5201 Through 15T5400, 15T6222)
	10-0059	1	Sprocket 50B19 1-1/4"B, 4600 (Prior to SN 09T6201)
	10-0093	1	Sprocket 50B24 1-1/4"B, 4600 (SN 09T6201 Through 15T5400, 15T6222)
15	25-0197	1	Door Catch Assembly
16	10-0010	1	Sprocket 50B24 1-1/4" Bore (Prior to SN 09T5201, 09T6201)
	10-0035	1	Sprocket 50B19 1-1/4" Bore (SN 09T5201, 09T6201 Through 15T5400, 15T6222)
17	10-0061	1	Idler Sprocket 50C17 w/Needle Bearing
18	14-0026	1	1-1/8" B Needle Bearing Only
19	11-0111	1	#50-144 Roller Chain (Prior to SN 09T5201, 09T6201)
	11-0140	1	#50-142 Roller Chain (SN 09T5201, 09T6201 Through 15T5400, 15T6222)
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	10-0060	1	Sprocket 50B42 1" B, 3500/4500
	10-0058	1	Sprocket 50B42 1-1/4B, 4600
27	11-0089	1	#50-82 Roller Chain for 3500/4500
	11-0030	1	#50-85 Roller Chain for 4600
28	25-0198	1	Shield Mount Plate
29	24-0112-4	1	Shield Support with Hinge

TSS VARIABLE SPEED CLUSTER DRIVE W/IOC (CONT'D)

Prior to SN 16T5201, 15T6223



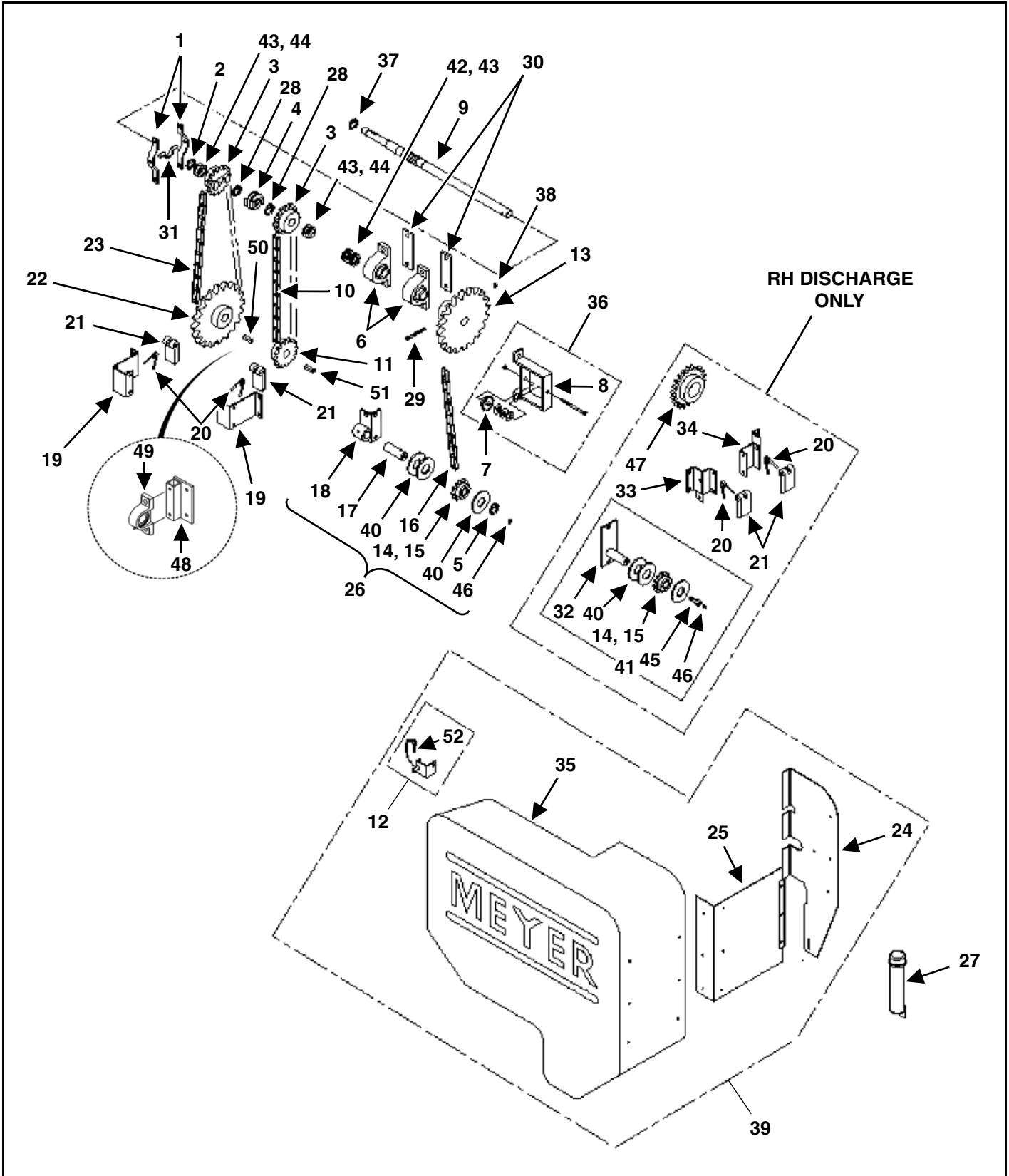
SPECIFY RH FOR RH DISCHARGE

ITEMS 15, 28, 29 & 40 ARE PART OF COMPLETE ASSEMBLY KEY 46

KEY	PART NUMBER	QTY	DESCRIPTION
30	44-0047	1	TSS Front Idler Shaft Assembly
31	12-0011-HD	8	Guide Pins, 1/2" Dia.
32	38-0013	1	Roll Pin, 5/16 x 1-3/4
33	851-3118-3.75Z	2	5/16 x 3-3/4" MB GR5
34	43-0013	2	3/8" Spacer Plate
35	14-0029	1	1-1/4" Thrust Bearing
36	21-0001	1	Collar, Clutch Shifter-Brass
37*	25-0184	1	Idler Bracket 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*	44-0047-RH	1	RH TSS Front Idler Shaft Assembly
42	19-0002-8	1	1" ID Snap Ring
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	24-0112-K	1	Shield Assembly
	24-0110-RH-K	1	T500 RH Cluster Shield (not shown)
	24-0111-RH-K	1	T600 RH Cluster Shield (not shown)
	24-0098	1	RH Cluster Door (not shown)
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/Cap
56	14-0039	1	1" Pillow Block Bearing
57	25-0166	1	Bearing Support (T500)
58	35-0001	1	35/4500 1/4 x 1/4 x 1-1/8" Key
	35-0030	1	4600 5/16 x 5/16 x 1-1/4" Key
59	35-0021	1	35/4500 1/4 x 1/4 x 1-3/4" Key
	35-0013	1	4600 5/16 x 5/16 x 1-1/2" Key
60	43-0013	2	3/8" Spacer Plate (Prior to SN 11T5232, 11T6212)
	43-0013-.5	2	1/2" Spacer Plate (SN 11T5232, 11T6212 Through 16T5201, 15T6223)
61	823-0003	1	Latch Pin

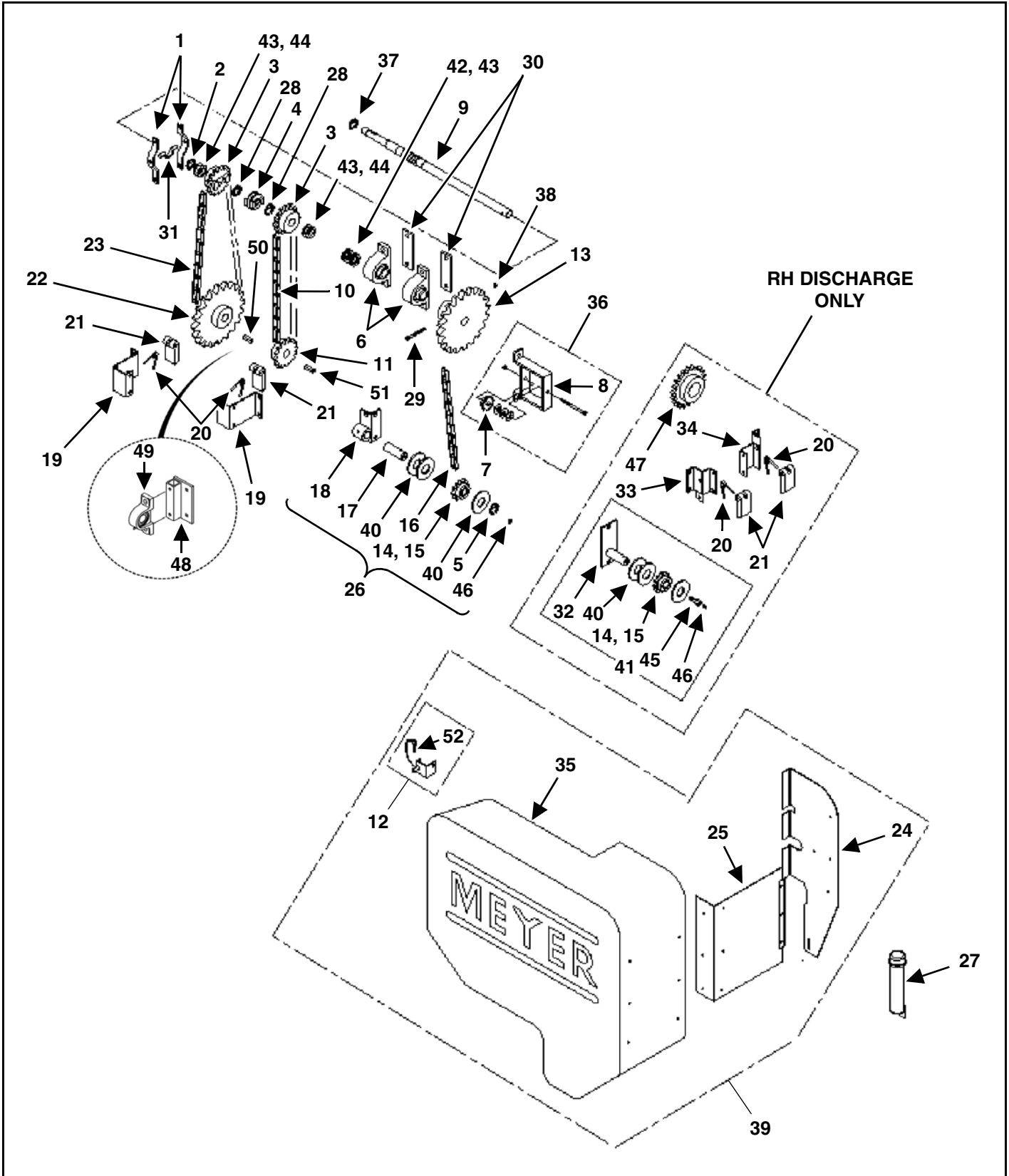
*These items for RH discharge units only.

TWO SPEED CLUSTER DRIVE
Prior to SN 16T5201, 15T6223



KEY	PART NUMBER	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	4	1-1/4 Bearing Only (Greaseable)
7	10-0068	1	Idler Sprocket 50C17 w/Bearing
	10-0068-1	1	1/2" Idler Bearing Only
8	25-0165	1	Idler Sprocket Mounting Bracket
9	19-0015-1-2SP	1	Upper Gearbox Input Shaft, Drilled
10	11-0088	1	#50-69 Roller Chain for 3500/4500 (Prior to SN 09T5201)
	11-0009	1	#50-72 Roller Chain for 3500/4500 (SN 09T5201 Through 15T5400, 15T6222)
	11-0009	1	#50-72 Roller Chain for 4600 (Prior to SN 09T6201)
	11-0016	1	#50-75 Roller Chain for 4600 (SN 09T6201 Through 15T5400, 15T6222)
11	10-0064	1	Sprocket 50B19 1"B, 3500/4500 (Prior to SN 09T5201)
	10-0042	1	Sprocket 50B24 1"B, 3500/4500 (SN 09T5201 Through 15T5400, 15T6222)
	10-0059	1	Sprocket 50B19 1-1/4"B, 4600 (Prior to SN 09T6201)
	10-0093	1	Sprocket 50B24 1-1/4"B, 4600 (SN 09T6201 Through 15T5400, 15T6222)
12	25-0197	1	Door Catch Assembly
13	10-0070	1	Sprocket 50C32 1-1/4" Bore, Drilled (Prior to SN 09T5201, 09T6201)
	10-0072	1	Sprocket 50C28 1-1/4" Bore, Drilled (SN 09T5201, 09T6201 Through 15T5400, 15T6222)
14	14-0026	1	1-1/8" B Needle Bearing Only
15	10-0061	1	Idler Sprocket 50C17 w/Needle Bearing
16	11-0100	1	#50-193 Roller Chain
	111-0050-186	1	#50-186 Roller Chain (RH Unloading Units Only)
17	23-0044	1	Idler Shaft
18	25-0164	1	Idler Bracket Weldment
19	25-0161-1	2	Chain Tensioner Bracket
20	29-0002	4	Tensioner Spring
21	41-0001	2	Tightener, 5" Nylon Slide
22	10-0060	1	Sprocket 50B42 1" B, 3500/4500
	10-0058	1	Sprocket 50B42 1-1/4B, 4600
23	11-0089	1	#50-82 Roller Chain for 3500/4500
	11-0030	1	#50-85 Roller Chain for 4600
24	25-0198-ASM	1	Shield Mount Plate
25	24-0112-4	1	Shield Support with Hinge
26	44-0048	1	2-Speed Front Idler Shaft Assembly
27	33-0044	1	Manual Holder w/Cap
28	33-0018	2	1-1/4" Snap Ring
29	851-3118-3.5Z	2	5/16 x 3-1/2 MB GR5
30	43-0013	4	Spacer Plate
31	21-0001	1	Collar, Clutch Shifter-Brass
32*	25-0189	1	2-Speed Idler Bracket Plate & Shaft Weldment

TWO SPEED CLUSTER DRIVE (CONT'D)
Prior to SN 16T5201, 15T6223

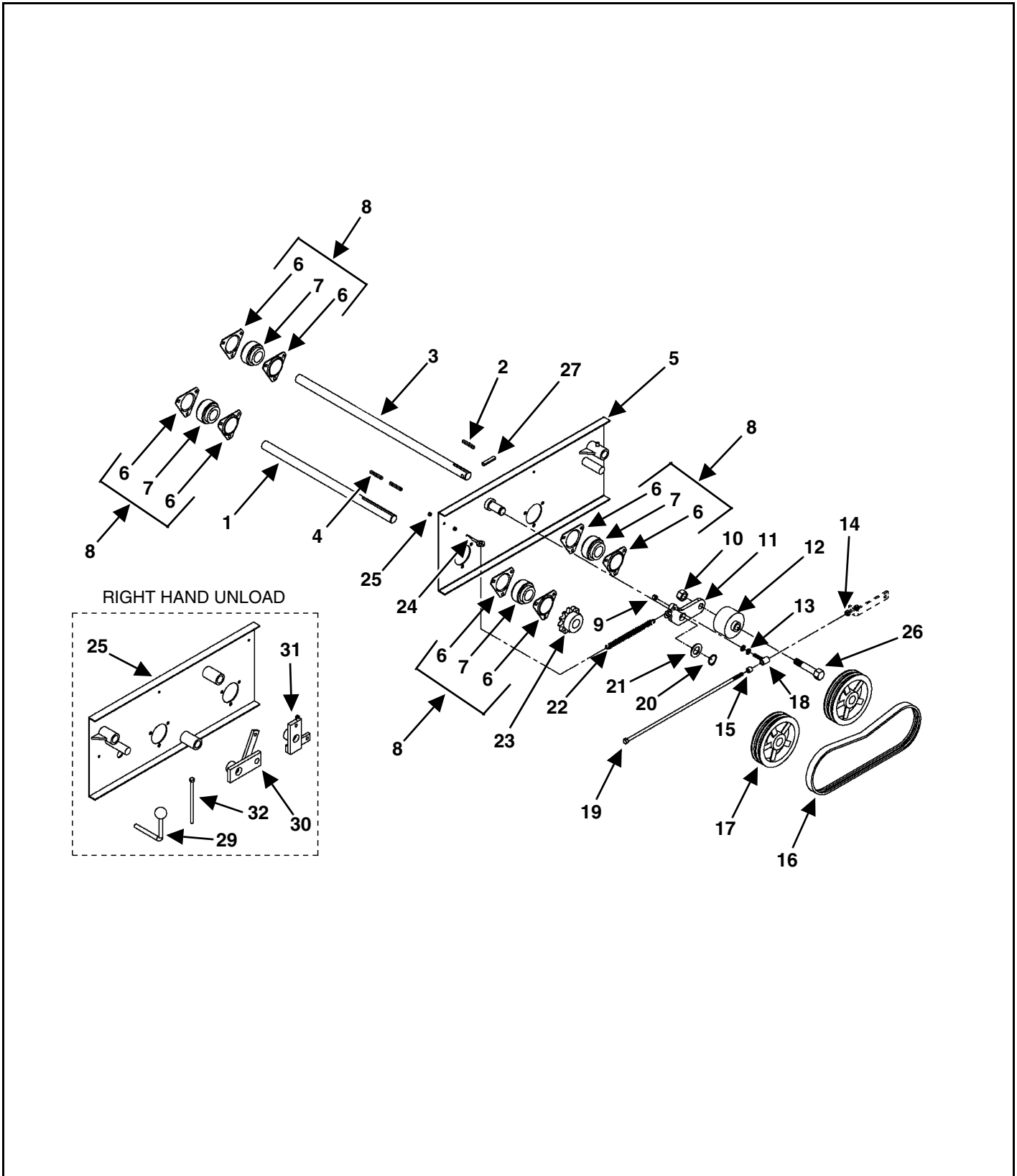


KEY	PART NUMBER	QTY	DESCRIPTION
33*	25-0183-RHH	1	Tightener Bracket Weldment (High)
34*	25-0183-RHL	1	Tightener Bracket Weldment (Low)
35	24-0112-1	1	Plastic Door Only
36	44-0049	1	2 Speed Idler Bracket Assembly w/Sprocket
37	19-0002-8	1	1" ID Snap Ring
38	815-3118-Z	2	5/16" Nylon Insert Lock Nut
39	24-0112-K	1	Shield Assembly - LH Unload
	24-0110-RH	1	T500 RH Cluster Shield (not shown)
	24-0111-RH	1	T600 RH Cluster Shield (not shown)
	24-0098	1	RH Cluster Door (not shown)
40	808-1.13-1.75-18	A/R	8 Ga. 1-1/8 ID Machine Bushing
41*	44-0050	1	RH 2 Speed Idler Plate Assembly w/Sprocket
42	808-1.25-1.875-10	A/R	10 Ga. 1-1/4 ID. Machine Bushing
43	808-1.25-1.875-14	A/R	14 Ga. 1-1/4 ID Machine Bushing
44	808-1.25-1.88-18	A/R	18 Ga. 1-1/4 ID Machine Bushing
45	33-0030-RH	1	Idler Shaft Grease Bolt, 1/2" x 3/4"
46	30-0004	1	1/4"-28 90° Grease Fitting
47	10-0004	1	Lower Shaft Sprocket, 50B17, 1-1/4" B, 1/4 Keyway
48	25-0166	1	Bearing Support (T500)
49	14-0039	1	1" Pillow Block Bearing
50	35-0001	1	35/4500 1/4 x 1/4 x 1-1/8" Key
	35-0030	1	4600 5/16 x 5/16 x 1-1/4" Key
51	35-0021	1	35/4500 1/4 x 1/4 x 1-3/4" Key
	35-0013	1	4600 5/16 x 5/16 x 1-1/2" Key
52	823-0003	1	Latch Pin

*These items for RH Discharge Units Only.

3500/4500/4600 SERIES
INDEPENDENT OUTFEED CLUTCH DRIVE

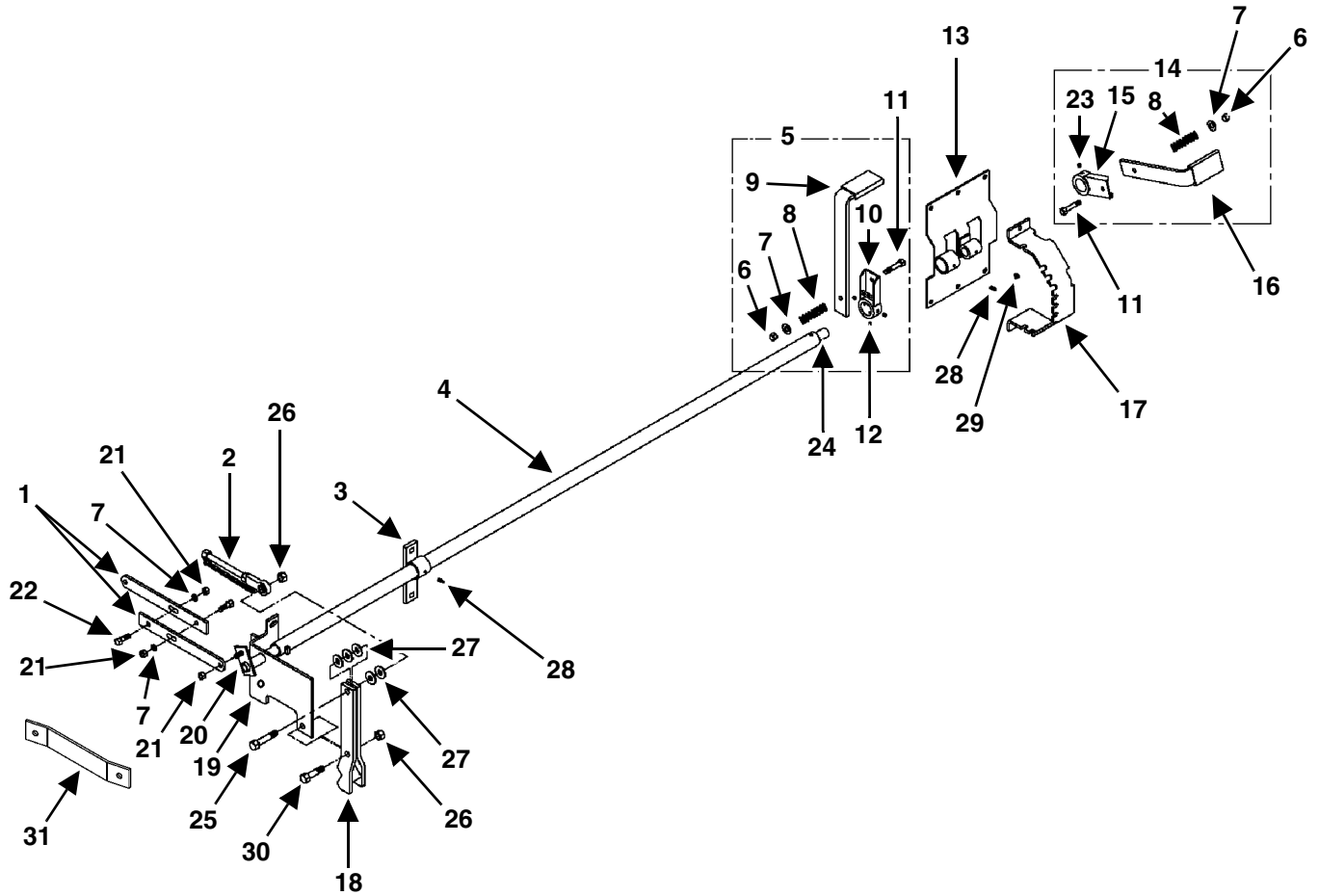
“STOP” & “RUN” CONTROL RELATED PARTS



KEY	PART NUMBER	QTY	DESCRIPTION
1	23-0081	1	Clutch Drive Idler Shaft
2	35-0012	1	1/4" x 1/4" x 1-1/2" Key
3	23-0080	1	Clutch Drive Center Shaft
4	35-0001	2	1/4" x 1/4" x 1-1/8" Key
5	25-0267	1	Clutch Plate Weldment
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	43-0022	1	Spacer
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	1	3/8" -16 x 17-1/2" HHCS
20	33-0020	1	Retaining Ring
21	808-1-1.5-18	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	811-2520-1.5Z	1	1/4" -20 x 2-1/2" Eye Bolt - Zinc
25	810-2520-Z	2	1/4" -20 Flange Spin Lock Nut
26	851-7510-3.25Z	1	3/4" -10 x 3-1/4" Grade 5 MB ZN
27	38-0015	1	5/16" x 2" Roll Pin
28	25-0267-RH	1	Clutch Plate Weldment RH
29	16-0044-RH	1	IOC Clutch Handle RH
30	25-0285	1	RH Tightener Arm
31	25-0286	1	RH Pivot Arm
32	851-3816-6.5Z	1	3/8-16 x 6.5 MB

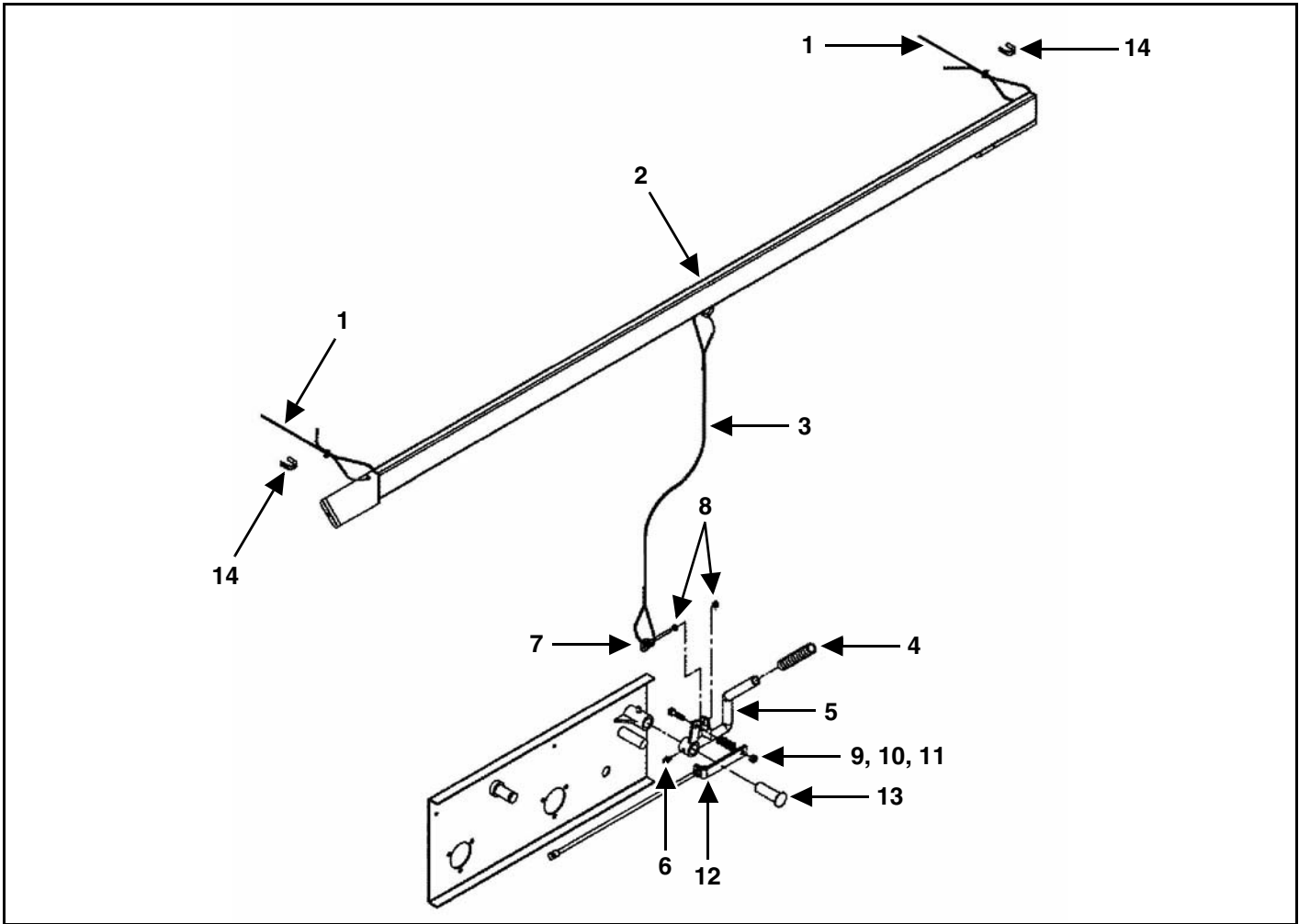
VARIABLE SPEED SHIFTER CONTROLS AND EMERGENCY STOP CLUTCH RELATED PARTS

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



KEY	PART NUMBER	QTY	DESCRIPTION
1	42-0022-1	2	Linkage Bar
2	42-0021	1	Bolt w/Chain & Eyelet
	11-0047	2	#40 Connector Link
3	42-0013	1	Pipe Guide Bracket Assembly
4	16-0031	1	Speed Control Pipe
5	16-0029	1	Speed Control Handle Assembly
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 Weldment
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 Weldment
14	16-0030	1	Range Control Handle Assembly
15	42-0018	1	Range Control Weldment
16	16-0028	1	Range Control Handle
17	25-0154	1	Control Quadrant
18	25-0151	1	Control Assembly
19	25-0157	1	Speed Control Bracket
20	16-0032-2	1	Range Control Pipe Ear
21	851-3816-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 1/4 x 1-1/4"
24	16-0032	1	Range Control Pipe Assembly
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 SAE
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
31	25-0167	1	TSS Range Pipe Support Brace

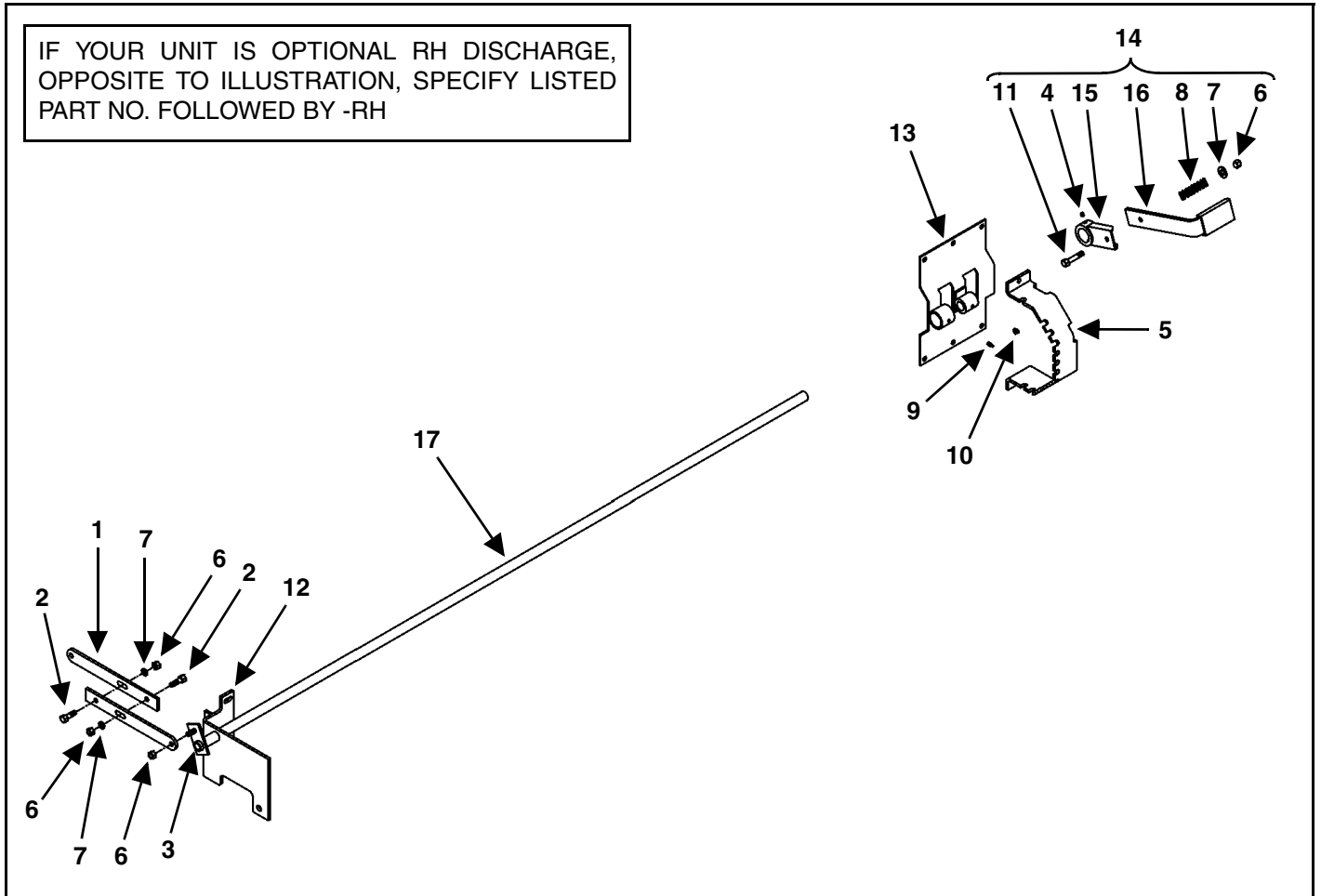
INDEPENDENT OUTFEED CLUTCH



KEY	PART NUMBER	QTY	DESCRIPTION
1	36-0001	2	Cables, Emergency Stop
	36-0007	4	Cable Crimp Only
2	16-0010	1	Push Bar, Emergency Stop, Control
3	36-0002	1	Cable, Emergency Stop Front, w/Crimp Fittings
	36-0007	2	Cable Crimp Only
4	51-0003	1	7/8" ID Rubber Grip Only
5	16-0044	1	I.O.C. Clutch Handle - Weldment
6	30-0001	1	1/4"-28 Straight Grease Fitting
7	811-2520-1Z	1	1/4"-20 x 1" Eye Bolt - Zinc
8	810-2520-Z	1	1/4"-20 Spin Locknut
9	851-3816-1.5Z	1	3/8"-16 x 1-1/2" Machine Bolt - Zinc Grade 5
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

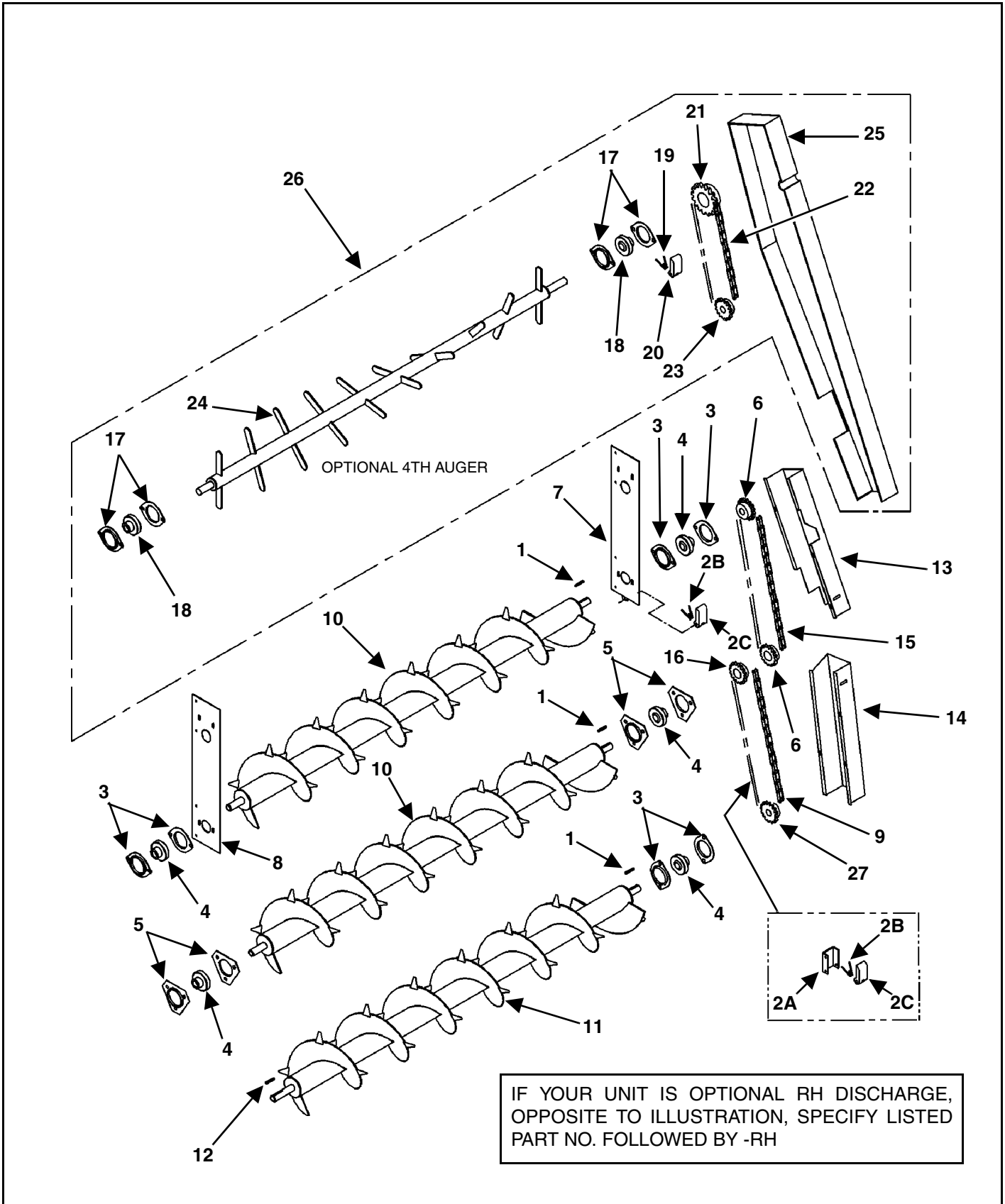
TWO SPEED HI-LO SHIFTER CONTROL

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



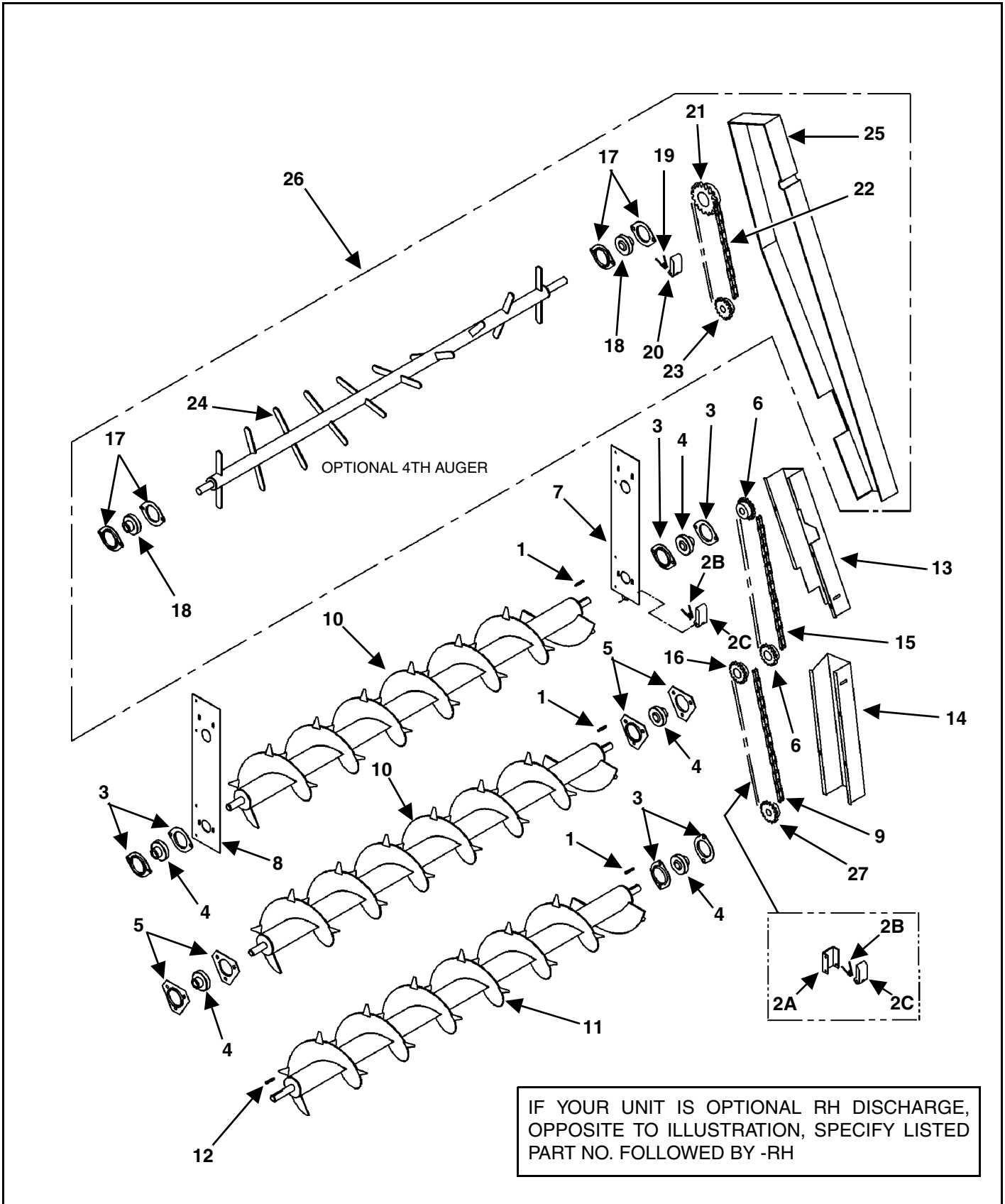
KEY	PART NUMBER	QTY	DESCRIPTION
1	42-0022-1	2	Linkage Bar
2	851-3816-1.25Z	2	Bolt 3/8"-16 x 1.25"
3	16-0032-2	1	Range Control Pipe Ear
4	38-0003	1	Roll Pin 1/4" x 1-1/4"
5	25-0154	1	Control Quadrant
6	814-3816-Z	4	3/8" Locknut (Zinc)
7	805-0038- Z	3	3/8" Flat Washer (Zinc)
8	29-0008	1	Spring
9	30-0001	1	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
13	25-0158	1	Quadrant Bracket Weldment
14	16-0030	1	Range Control Handle Assembly
15	42-0018	1	Range Control Hub Weldment
16	16-0028	1	Range Control Handle
17	16-0032	1	Hi/Low Range Control Pipe Weldment

TSS AUGERS & AUGER DRIVE



KEY	PART NUMBER	QTY	DESCRIPTION
1	35-0006	4	Key 3/8 x1-1/4
2	41-0009	1	Lower Auger Drive Chain Tightener Assembly
2A	25-0047	1	Mounting Bracket
2B	29-0002	2	Spring
2C	41-0002	1	Tightener, 3" Nylon Slide
3	14-0003-2	6	1-1/4 Bearing Flange, 2 Hole
4	14-0002-3	5	Bearing w/Collar 1-1/4
5	14-0002-2	4	1-1/4 Bearing Flange, 3 Hole
6	10-0012	2	Sprocket 50B17, 1-1/4 Bore, 3/8" Keyway
7	25-0186	1	Top Auger Mounting Bracket w/Tightener Bracket
	25-6025	1	Top Auger Mounting Bracket w/Tightener Bracket (Optional High Sided Implement)
8	25-0142	1	Top Auger Mounting Bracket w/o Tightener Bracket
	100-9990-200-1-1	1	Top Auger Mounting Bracket w/o Tightener Bracket (Optional High Sided Implement)
9	11-0087	1	Lower Auger #50-95 Roller Chain (Prior to SN 11T5250, 11T6221)
	111-0050-99	1	Lower Auger #50-99 Roller Chain (SN 11T5250, 11T6221 & Later)
	11-0079	1	Lower Auger #60-95 Roller Chain (Prior to SN 11T5250, 11T6221 with 4th Auger Option)
	111-0060-83	1	Lower Auger #60-83 Roller Chain (SN 11T5242, 11T6218 & Later with 4th Auger Option)
10	26-0034	2	Auger 2nd & 3rd
	26-0034-FB	1	Feeder Box 2nd Auger
11	26-0033	1	Lower Auger 1/4" Key (Prior to SN 09T5201, 09T6201)
	26-0033-FB	1	Feeder Box Lower Auger 1/4" Key (Prior to SN 09T5201, 09T6201)
	26-0036	1	Lower Auger 5/16" Key (SN 09T5201, 09T6201 Through 15T5400, 15T6222)
	26-0036-FB	1	Feeder Box Lower Auger 5/16" Key (SN 09T5201, 09T6201 Through 15T5400, 15T6222)
	26-0037	1	RT160 Bottom Auger Assembly 5/16" Keyway (16T5201, 15T6223 & Later)
	26-0037-FB	1	RT160 Feeder Box Bottom Auger Assembly 5/16" Keyway (SN 16T5201, 15T6223 & Later)
12	35-0012	1	Key 1/4 x 1-1/2" (Durst Gearbox) (Prior to SN 09T5201, 09T6201)
	35-0028	1	Key 1/4 x 1-1/4" (Superior Split Housing) (Prior to SN 09T5201, 09T6201)
	35-0030-H-SK	1	Step Key 1/4" x 5/16" x 1-1/4" (Prior to SN 09T5201 With Update Gearbox or Gear Set)
	35-0030-H	1	Key 5/16 x 1-1/4" Hardened (SN 09T5201, 09T6201 Through 11T5242, 11T6218)
	135-31W-1.25-1	1	Woodruff Key 5/16" x 1-1/4" Hardened (SN 11T5242, 11T6218 Through 15T5400, 15T6222)
	135-3131-4-1	1	5/16 x 5/16 x 4" Square Key 1045 Square Ends (SN 16T5201, 15T6233 & Later)
13	24-0092	1	Upper Auger Chain Guard
	24-0092-RH	1	RH Upper Auger Chain Guard
14	24-0101	1	Lower Auger Chain Guard
	24-0101-RH	1	RH Lower Auger Chain Guard
15	11-0074	1	Upper Auger #50-94 Roller Chain
16	10-0012	1	Sprocket 50B17, 1-1/4" Bore, 3/8" Keyway
	10-0095	1	Sprocket 60B15, 1-1/4" Bore, 3/8" Keyway (4th Auger Option)
17	14-0003-2	4	1-1/4" Bearing Flange, 3 Hole
18	14-0002-3	2	Bearing w/Collar 1-1/4"
19	29-0002	1	Spring
20	41-0002	1	Tightener, 3" Nylon Slide
21	10-0009	1	Sprocket 50B36, 1-1/4" Bore, 3/8" Keyway (4th Auger Option)

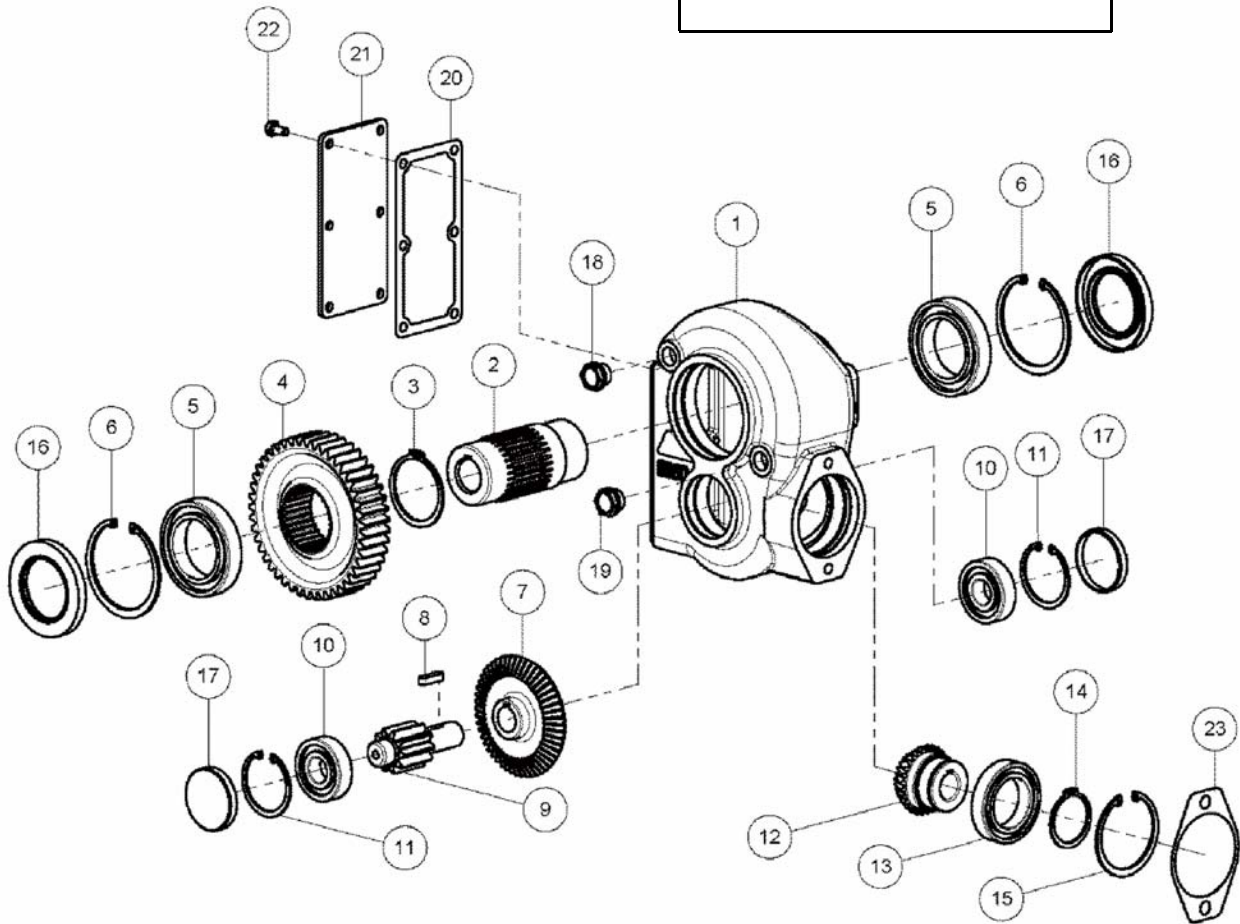
TSS AUGERS & AUGER DRIVE (CONT'D)



KEY	PART NUMBER	QTY	DESCRIPTION
22	11-0139	1	3rd-4th Auger Chain #50-89
23	10-0012	1	Sprocket, 50B17, 1-1/4" Bore, 3/8" Keyway
24	26-0035	1	4th Auger Assembly
25	24-6004	1	Auger Shield Welded Assembly (4th Auger Option)
	24-6004-RH	1	RH Auger Shield Welded Assembly (4th Auger Option)
	24-0123-2	3	Hinges Only
	32-0027	2	Rubber T-Latch Kit
26	TSS-AUGER-4-KIT	1	4th Auger Pkg (2011 Models and Later)
27	10-0012	1	Sprocket 50B17, 1-1/4" Bore, 3/8" Keyway (Prior to SN 11T5242, 11T6218)
	110-50B24-1.25-1	1	Sprocket 50B24, 1-1/4" Bore, 3/8" Keyway (SN 11T5242, 11T6218 and Later) (Used With 10:1 Ratio Gearbox Only)
	10-0095	1	Sprocket 60B15, 1-1/4" Bore, 3/8" Keyway, (Prior to SN 11T5242 & 11T6218 with 4th Auger Option)
	110-60B20-1.25-1	1	Sprocket 60B20 1-1/4" Bore, 3/8" Keyway, (SN 11T5242, 11T6218 and Later with 4th Auger Option) (Used With 10:1 Ratio Gearbox Only)

19-0206
RT160 GEARBOX ASSEMBLY
Optional Prior to SN 16T5201, 15T6223
Standard SN 16T5201, 15T6223 & Later

USE ONLY 80W90 OIL

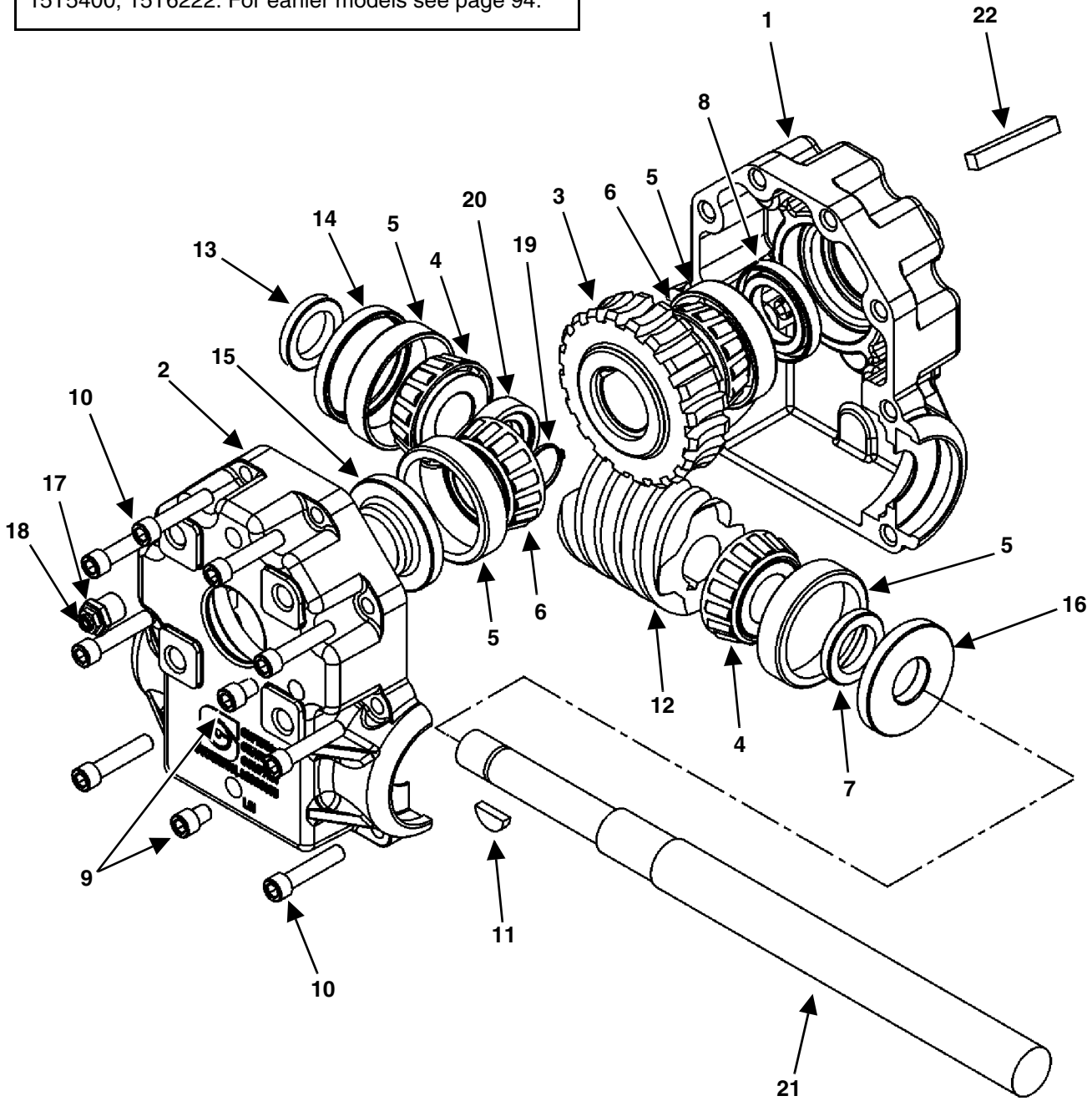


NOTE: The seal for the hydraulic motor (Key 23) should be installed dry or with light oil. The hydraulic motor mounting bolts should be torqued to 63 ft-lbs (or 85 N-m).

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	619-0012-2	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

UPPER GEAR BOX WITH INPUT SHAFT ASSEMBLY

Superior upper gearbox used on all 04 through 15T5400, 15T6222. For earlier models see page 94.

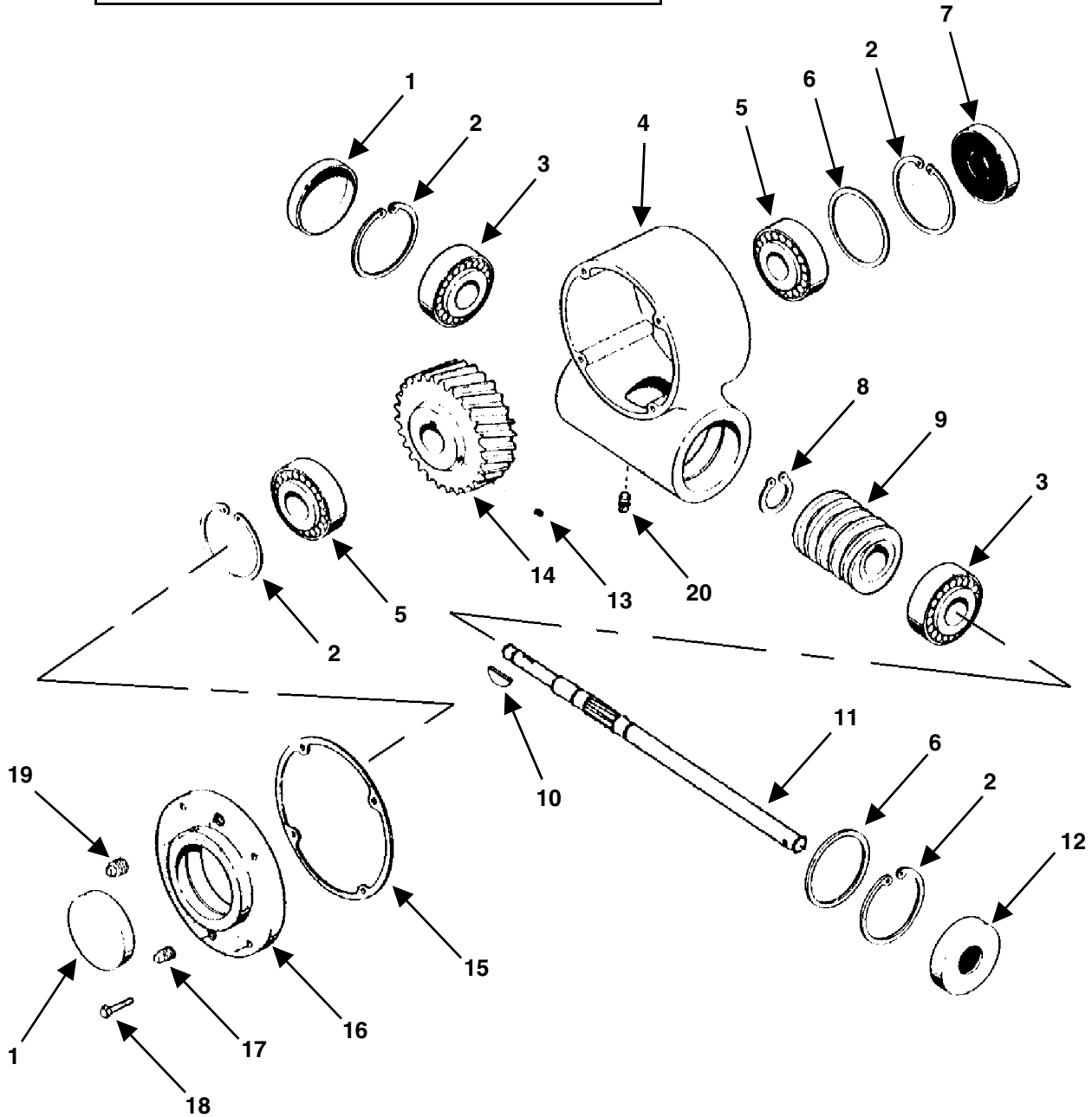


USE ONLY SYNTHETIC ISO 460 GEAR OIL AGMA 7 (NON EP) OR EQUIVALENT. DO NOT USE GREASE FOR LUBRICANT.

KEY	PART NUMBER	QTY	DESCRIPTION
		-	5:1 Gearbox Production Built (Prior To SN 09T5201, 09T6201)
		-	10:1 Gearbox Production Built (SN 09T5201, 09T6201 Through SN 15T5400, 15T6222)
	19-0155-G	1	Replacement Upper Gearbox w/ Input Shaft, 5:1 5/16" Key
	19-0155-4-G	1	Replacement Upper Gearbox w/o Input Shaft, 5:1 5/16" Key
	See Page 88	-	May Need To Replace Lower Auger Sprocket (SN 11T5242, 11T6218 Through 15T5400, 15T6222)
1	19-0055-4-1	1	Tapped Gearbox Casting
2	19-0055-4-2	1	Thru Hole Casting
3	19-0055-GS	1	5:1 Gear Set, 5/16" Key (Prior to SN 15T400, 15T6222)
	See Page 88	-	May Need To Replace Lower Auger Sprocket (SN 11T5242, 11T6218 Through 15T5400, 15T6222)
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" I.D. x 1-1/2" O.D.
8	19-0016-10	1	Seal 1-1/4 I.D. x 2" O.D.
9	19-0055-4-9	2	Plug, 1/4-18 NPT Plug
10	19-0055-4-10	A/R	Bolt, 5/16-18 x 1-1/2" SHCS
	19-0055-4-11	A/R	Bolt, 5/16-18 x 1-3/4" SHCS
	19-0055-4-21	A/R	Bolt, 5/16-18 x 1-1/4" SHCS
11	19-0003-6	1	Woodruff Key
12	19-0155-GS	1	5:1 Gear Set, 5/16" Key (Prior to SN 15T400, 15T6222)
	See Page 88	-	May Need To Replace Lower Auger Sprocket (SN 11T5242, 11T6218 Through 15T5400, 15T6222)
13	19-0024-28	1	End Cap 1-1/2"
14	19-0024-19	1	End Cap 2-5/16"
15	19-0055-4-15	1	End Cap 2"
16	19-0024-27	1	Seal 1" I.D. x 2-5/16" O.D.
17	19-0055-4-17	1	Bushing, 1/4" NPT x 1/8" NPT
18	19-0055-4-18	1	Vent Plug 5-PSI
19	19-0055-4-19	1	External Retaining Ring 1.0 Shaft
20	19-0055-4-20	1	1" I.D. Spacer
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 09T5201, 09T6201)
	35-0030-H-SK	1	Key, 1/4" x 5/16" x 1-1/4" Hardened (Prior to SN 09T5201, 09T6201 w/Updated Gear Set or Gearbox)
	35-0030-H	1	Key, 5/16" x 5/16" x 1-1/4" Hardened (SN 09T5201 09T6201 thru 11T5241, 11T6217)
	135-31W-1.25-1	1	Key, Woodruff 5/16 x 1-1/4" Hardened (SN 11T5242, 11T6218 Through 15T5400, 15T6222)

#19-0015
UPPER GEAR BOX WITH INPUT SHAFT ASSEMBLY

Durst upper gearbox used prior to SNs 04T5201,
04T6201 & 04T2201. For later models see page 92.

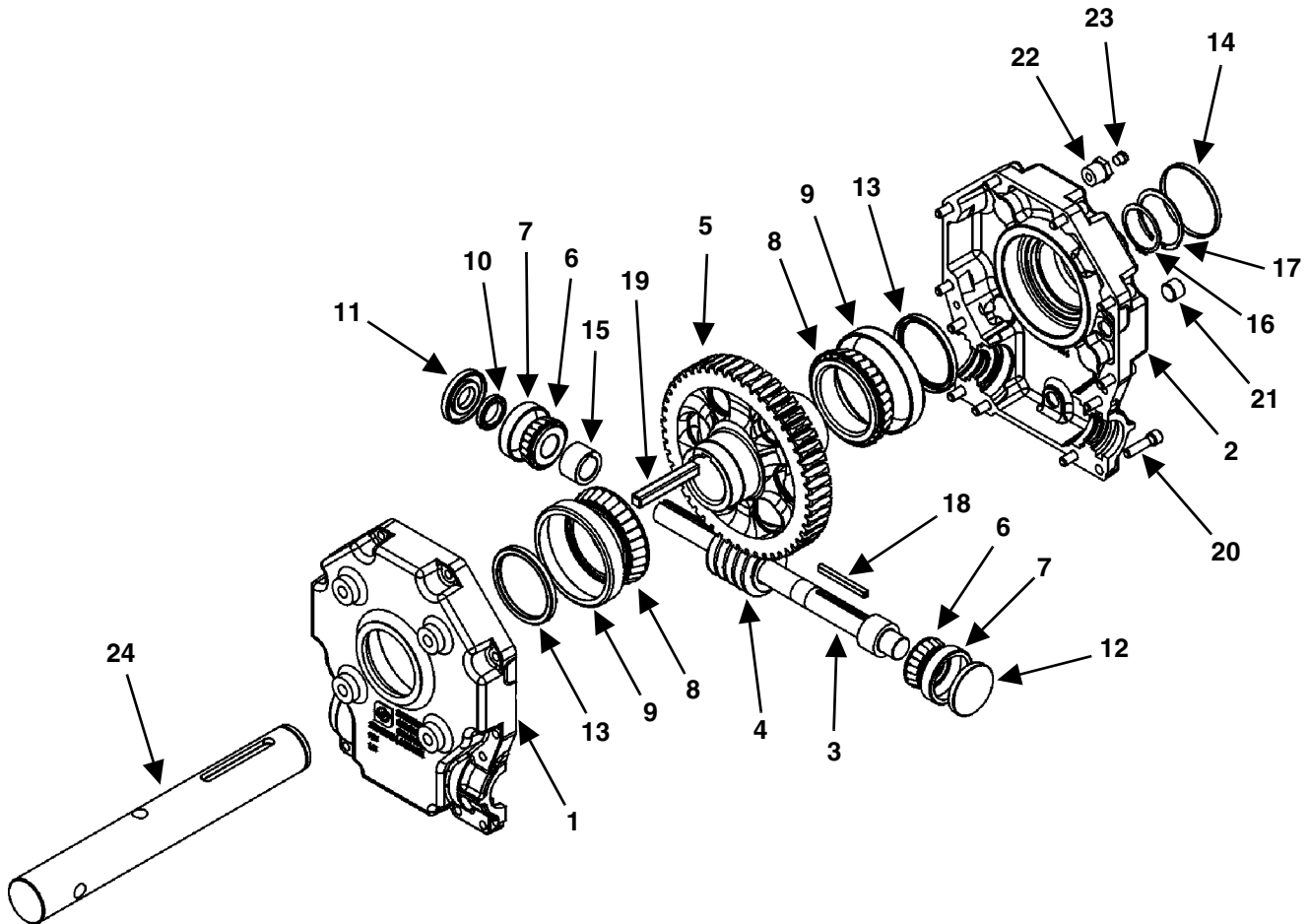


Use #80-90 wt. Gear Lube Oil ONLY. DO NOT USE
GREASE FOR LUBRICANT.

KEY	PART NUMBER	QTY	DESCRIPTION
	19-0015	1	Upper GearBox w/ Input Shaft
	19-0015-4	1	Upper GearBox w/o Input Shaft
1	19-0003-1	2	Cap
2	19-0002-2	4	Snap Ring
3	19-0055-4-4	2	Bearing Cone
	19-0002-4	2	Bearing Cup
4	19-0003-2	1	Housing
5	19-0055-4-6	2	Bearing Cone
	19-0055-4-5	2	Bearing Cup
6	19-0002-12	A/R	Shim
7	19-0003-4	1	Output Seal
8	19-0002-8	1	Snap Ring
9	19-0015-3	1	Hardened Worm
10	19-0003-6	1	Woodruff Key
11	19-0015-1	1	Input Shaft
12	19-0002-13	1	Input Seal
13	19-0003-7	1	Set Screw
14	19-0015-2	1	Bronze Gear
15	19-0002-19	1	Gasket
16	19-0003-9	1	Cover
17	19-0002-17	1	Vent Plug
18	19-0002-14	4	Cap Screw
19	19-0003-10	1	Level Plug
20	19-0003-12	1	Drain Plug

#19-0257
LOWER GEARBOX
3500 & 4500 SERIES

Used on 2012 Model Year and Later. For earlier models see page 98, 100 or 102.



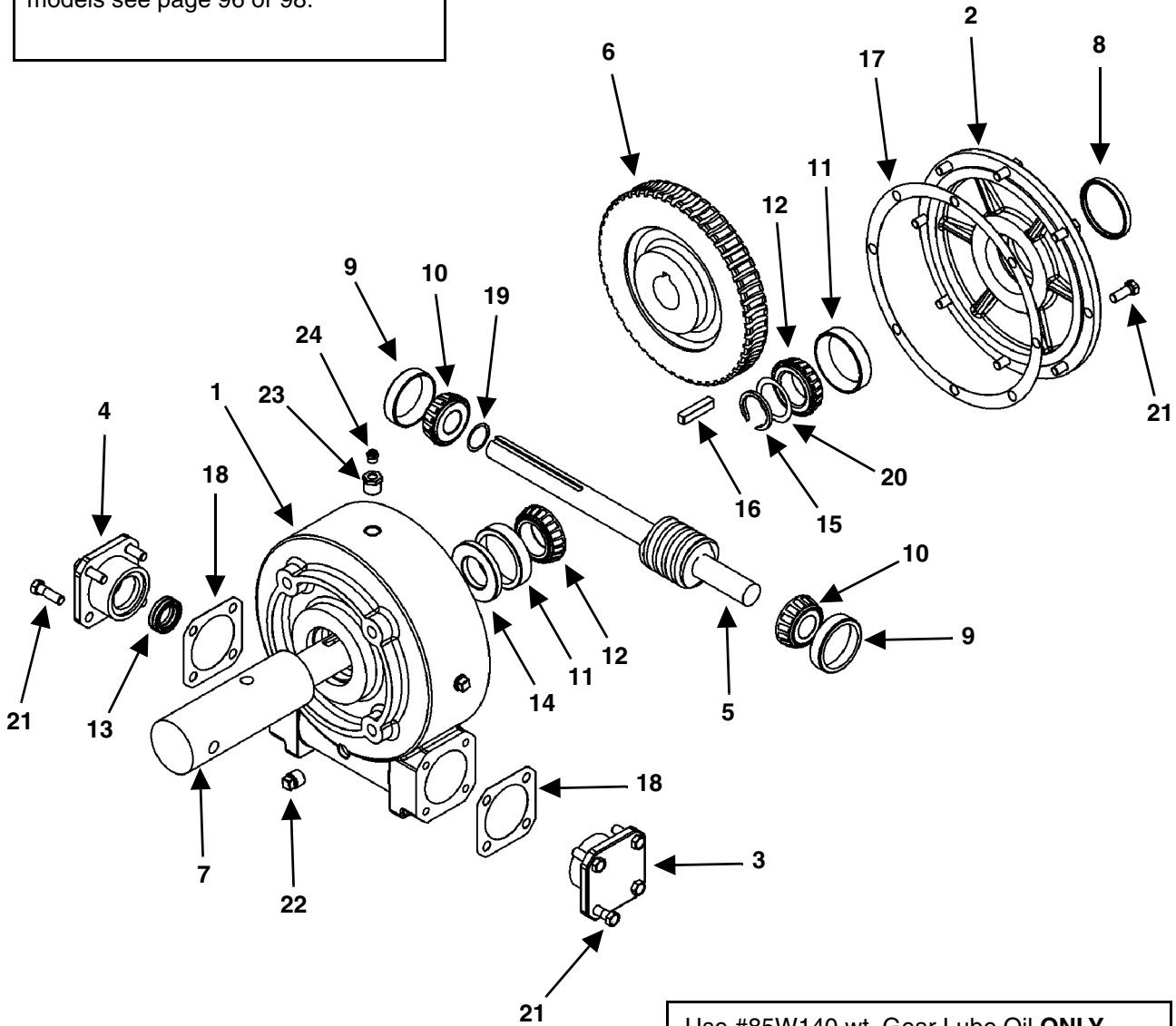
Use #80-90 wt. Gear Lube Oil ONLY. DO NOT USE GREASE FOR LUBRICANT.

KEY	PART NUMBER	QTY	DESCRIPTION
0	19-0257	1	Replacement Gearbox With Output Shaft (Prior to 2009 Model Year)
	19-0257-RH	1	Replacement Gearbox Right Discharge With Output Shaft (Prior to 2009 Model Year)
	19-0257A	1	Replacement Gearbox Without Output Shaft (2009 Model Year & Later)
	19-0257A-RH	1	Replacement Gearbox Right Discharge Without Output Shaft (2009 Model Year & Later)
1	19-0257-1-1	1	W26A Housing Tapped Holes
2	19-0257-1-2	1	W26A Housing Thru Holes
3	19-0257-5	1	W26A Input Shaft
4	19-0257-7	1	Worm Cut Gear 50:1 RH Bronze
5	19-0257-6	1	Wheel Gear 50:1 RH
6	19-0257-8	2	Bearing Cone
7	19-0257-9	2	Bearing Cup
8	19-0257-10	2	Bearing Cone
9	19-0257-11	2	Bearing Cup
10	19-0024-12	1	Seal
11	19-0024-27	1	Seal
12	19-0024-19	1	Seal End Cap
13	19-0257-4	2	Seal
14	19-0257-3	1	Seal End Cap
15	19-0257-2	1	W26A Spacer Keyed
16	19-0151-12	1	Retaining Ring, Ext 2.00 Shaft
17	19-0151-13	1	Retaining Ring, Int 2.500 Bore
18	19-0024-14	1	Key
19	19-0157-18	1	Key 1/2 x 1/2 x 3.50
20	19-0257-1-3	12	Bolt, 3/8-16 x 1.50
21	19-0016-5	3	Plug, 1/2-14 NPT
22	19-0023-2	1	Bushing, 1/2 NPT to 1/8 NPT
23	19-0002-17	1	Plug, 1/8-27 NPT Vent 5 psi
24	19-0257-12	1	Output Shaft
NS	48-0044	A/R	Lube/EP 85W140

KEY	PART NUMBER	QTY	DESCRIPTION
0	19-0157	1	W26A With Output Shaft (Not Available) (See 19-0257) (SN 07T5350 Through 2008 Models)
	19-0157-RH	1	W26A Right Discharge With Output Shaft (Not Available) (See 19-0257-RH) (SN 07T5350 Through 2008 Models)
	19-0157A	1	W26A Without Output Shaft (Not Available) (See 19-0257A)
	19-0157A-RH	1	W26A Right Discharge Without Output Shaft (Not Available) (See 19-0257A-RH) (2009 Models Through 2011 Model Year)
1	19-0157-1	1	Housing (Not Available)
2	19-0157-2	1	Cover (Not Available)
3	19-0057-3	1	Endcap (Closed) (Not Available)
4	19-0157-3	1	Endcap (Open)
5	19-0157-4	1	Output Shaft (Prior to SN 09T5201)
	23-0155-1-1045	1	Main Drive Shaft 2 x 92-3/8" (SN 09T5201 & Later)
6	19-0157-5	1	Input Shaft / Worm Assembly (Not Available)
7	19-0157-6	1	Gear (Not Available)
8	19-0157-7	1	Cover Cap
9	19-0157-8	2	Input Bearing Cup
10	19-0157-9	2	Input Bearing Cone
11	19-0157-10	2	Output Bearing Cup/Cone
12	19-0057-13	2	Input Seal
13	19-0157-11	2	Output Seal
14	19-0157-12	1	Cover Gasket
15	19-0157-13	2	Endcap Gasket
16	19-0057-19	A/R	Input Shim
17	19-0157-14	A/R	Output Shim
18	851-3816-1Z	16	3/8-16 x 1" Machine Bolt Grade 5
19	19-0057-22	4	Plug, 3/8-18 NPT
20	19-0157-15	1	Plug, 1/8-27 NPT
21	19-0057-23	1	Bushing, 3/8-18 / 1/8-27 (Not Available)
22	19-0002-17	1	Plug, 5 PSI
23	19-0157-16	1	Output Shaft Retaining Ring (Not Available)
24	19-0151-13	1	Hollow Bore Retaining Ring
25	19-0157-18	1	Output Shaft Key

#19-0057
LOWER GEARBOX
3500 & 4500 SERIES

Used on SN 04T5201-07T5349. For earlier models see page 102. For later models see page 96 or 98.

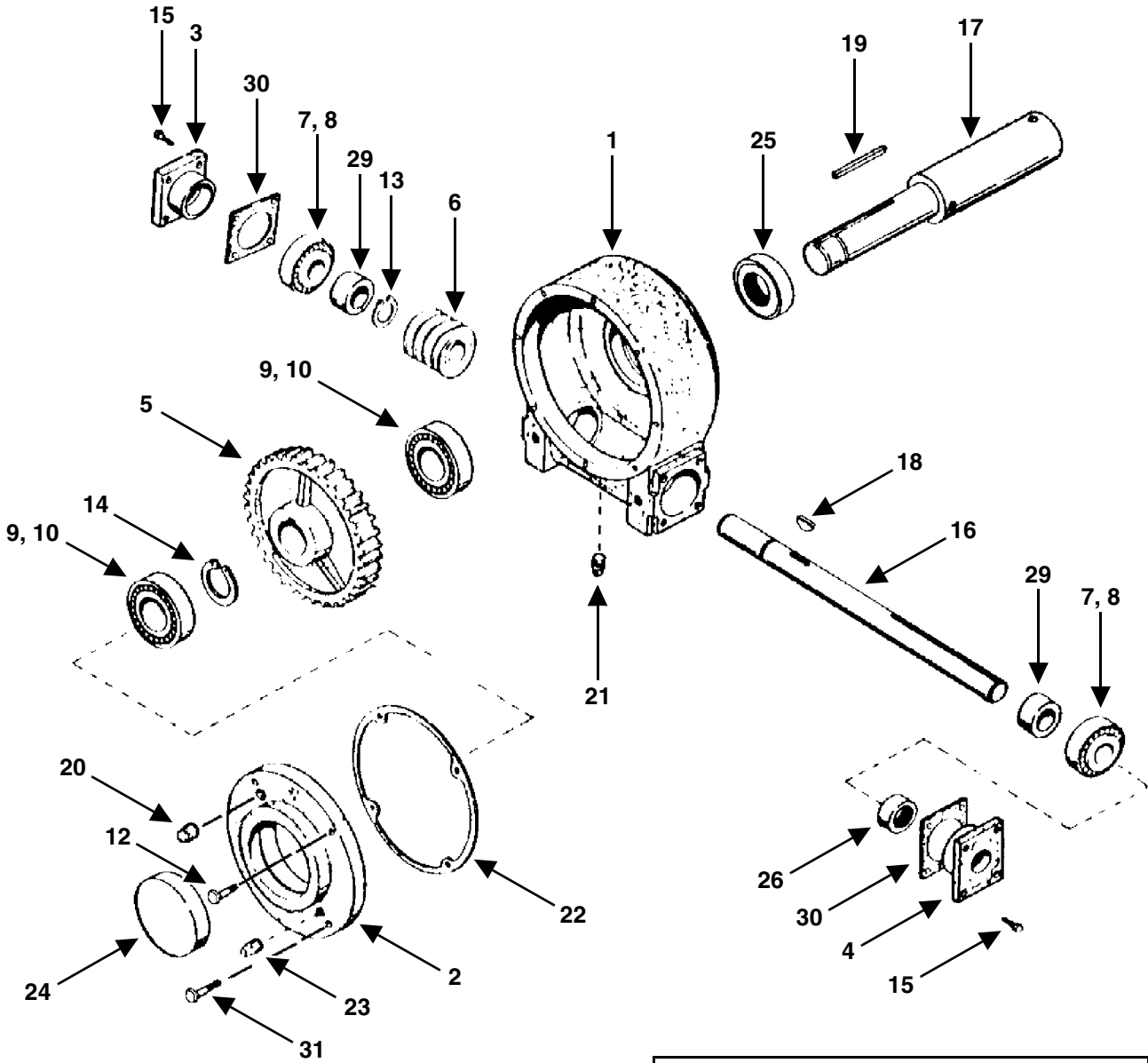


Use #85W140 wt. Gear Lube Oil **ONLY**.
DO NOT USE GREASE FOR LUBRICANT.

KEY	PART NUMBER	QTY	DESCRIPTION
0	19-0057	1	I260 With Output Shaft (Not Available) (See 19-0257)
1	19-0057-1	1	Housing (Not Available)
2	19-0057-2	1	Cover
3	19-0057-3	1	Endcap (Closed)
4	19-0057-4	1	Endcap (Open) (Not Available)
5	19-0057-5	1	Input Shaft / Worm Assembly
6	19-0057-6	1	Gear (Not Available)
7	19-0057-7	1	Output Shaft
8	19-0057-8	1	Cover Cap
9	19-0055-4-5	2	Input Bearing Cup
10	19-0055-4-4	2	Input Bearing Cone
11	19-0057-11	2	Output Bearing Cup
12	19-0057-12	2	Output Bearing Cone
13	19-0057-13	2	Input Shaft Seal
14	19-0057-14	1	Output Seal
15	19-0057-15	1	Retaining Ring
16	19-0057-16	1	Square Key (Not Available)
17	19-0157-12	1	Cover Gasket
18	19-0057-18	2	Endcap Gasket
19	19-0057-19	A/R	Input Shims
20	19-0057-20	A/R	Output shims (Not Available)
21	19-0057-21	16	3/8-16 x 1" Grade 5 Cap Bolts
22	19-0057-22	6	Plug, 3/8-18 NPT SQHD
23	19-0057-23	1	Bushing 3/8-18 To 1/8- 27 NPT (Not Available)
24	19-0002-17	1	Plug, 5-PSI Breather

#19-0007-B
 LOWER GEARBOX
 3500 & 4500 SERIES

Durst lower gearbox used prior to SN 04T5201. For later models see page 96, 98, or 100.



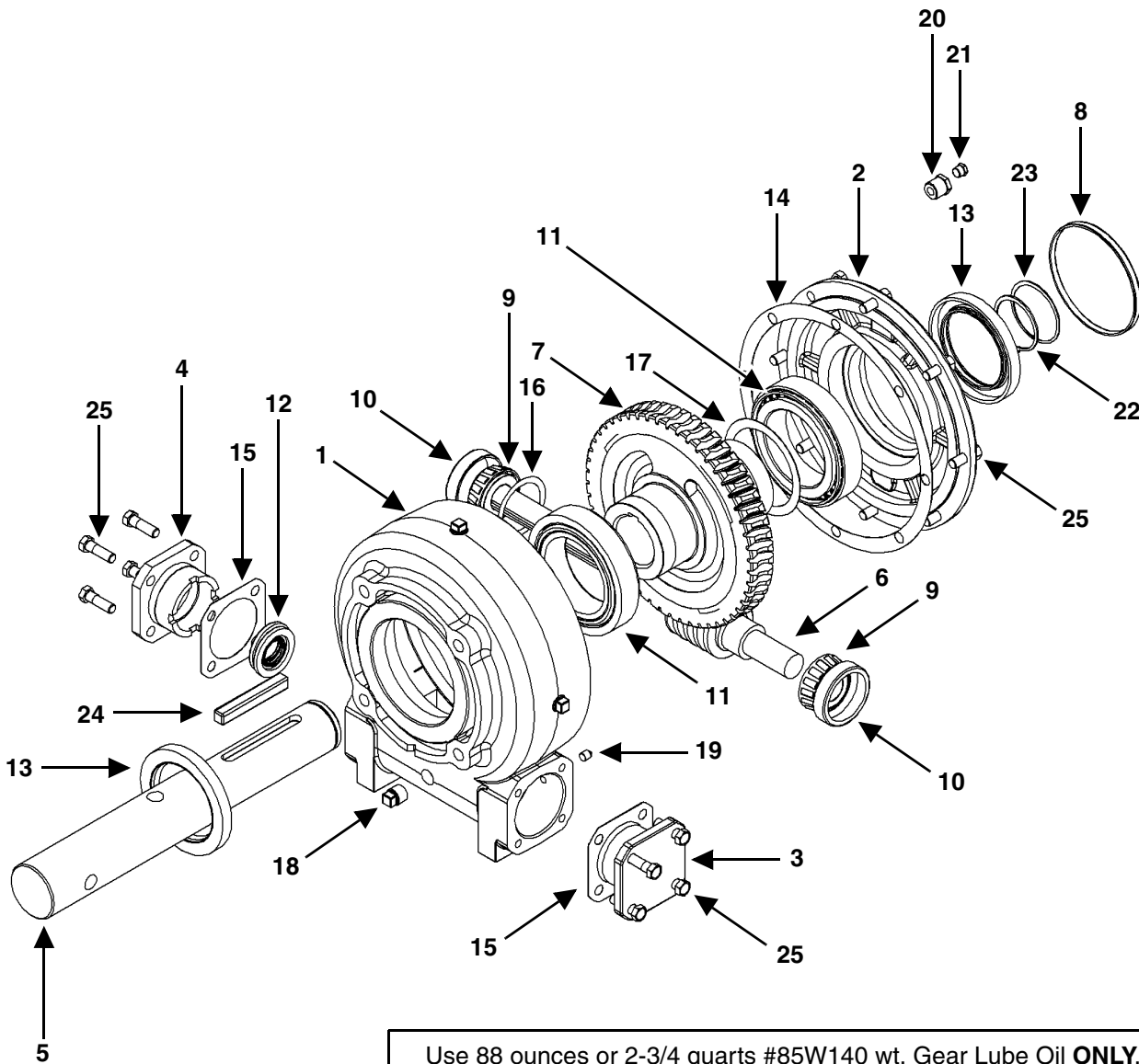
Use #80-90 wt. Gear Lube Oil **ONLY**.
 DO NOT USE GREASE FOR LUBRICANT.

KEY	PART NUMBER	QTY	DESCRIPTION
0	19-0007-B	1	Gear Reducer, Lower (Not Available) (See 19-0257)
1	19-0007-4	1	Housing (Not Available)
2	19-0004-2	1	Cover (Not Available)
3	19-0004-3	1	Cap, End (Closed)
4	19-0004-4	1	Cap, End (Open) (Not Available)
5	19-0007-1-B	1	Gear (Not Available)
6	19-0007-2	1	Worm Gear (Not Available)
7	19-0055-4-4	2	Bearing Cone
8	19-0055-4-5	2	Bearing Cup
9	19-0004-7	2	Bearing Cone
10	19-0004-8	2	Bearing Cup
12	19-0001-21	7	Cap Screw
13	19-0004-9	1	Snap Ring
14	19-0004-23	1	Snap Ring
15	19-0004-11	8	Cap Screw
16	19-0007-3	1	Input Shaft
17	19-0004-13-B	1	Output Shaft (Not Available)
18	19-0003-6	1	Woodruff Key
19	19-0004-14-B	1	Square Key
20	19-0003-10	1	Level Plug
21	19-0003-12	1	Drain Plug
22	19-0004-16	1	Cover Gasket
23	19-0002-17	1	Vent Plug
24	19-0004-17	1	Cap
25	19-0004-18	1	Output Seal
26	19-0004-19	1	End Cap Seal
27	19-0002-12	A/R	Input Shim
28	19-0004-20	A/R	Output Shim
29	19-0004-21	2	Spacer
30	19-0004-22	2	Gasket (Not Available)
31	19-0001-21-B	1	Lower Cap Screw (Not Available)

**#19-0151 LOWER GEARBOX ASSEMBLY (LESS SHAFT)
4600 SERIES (LEFT HAND UNLOAD)**

**#19-0151-RH LOWER GEARBOX ASSEMBLY (LESS SHAFT)
4600 SERIES (RIGHT HAND UNLOAD)**

Superior lower gearbox used on SN 08T6271 & later. For earlier models see page 106 or 108.

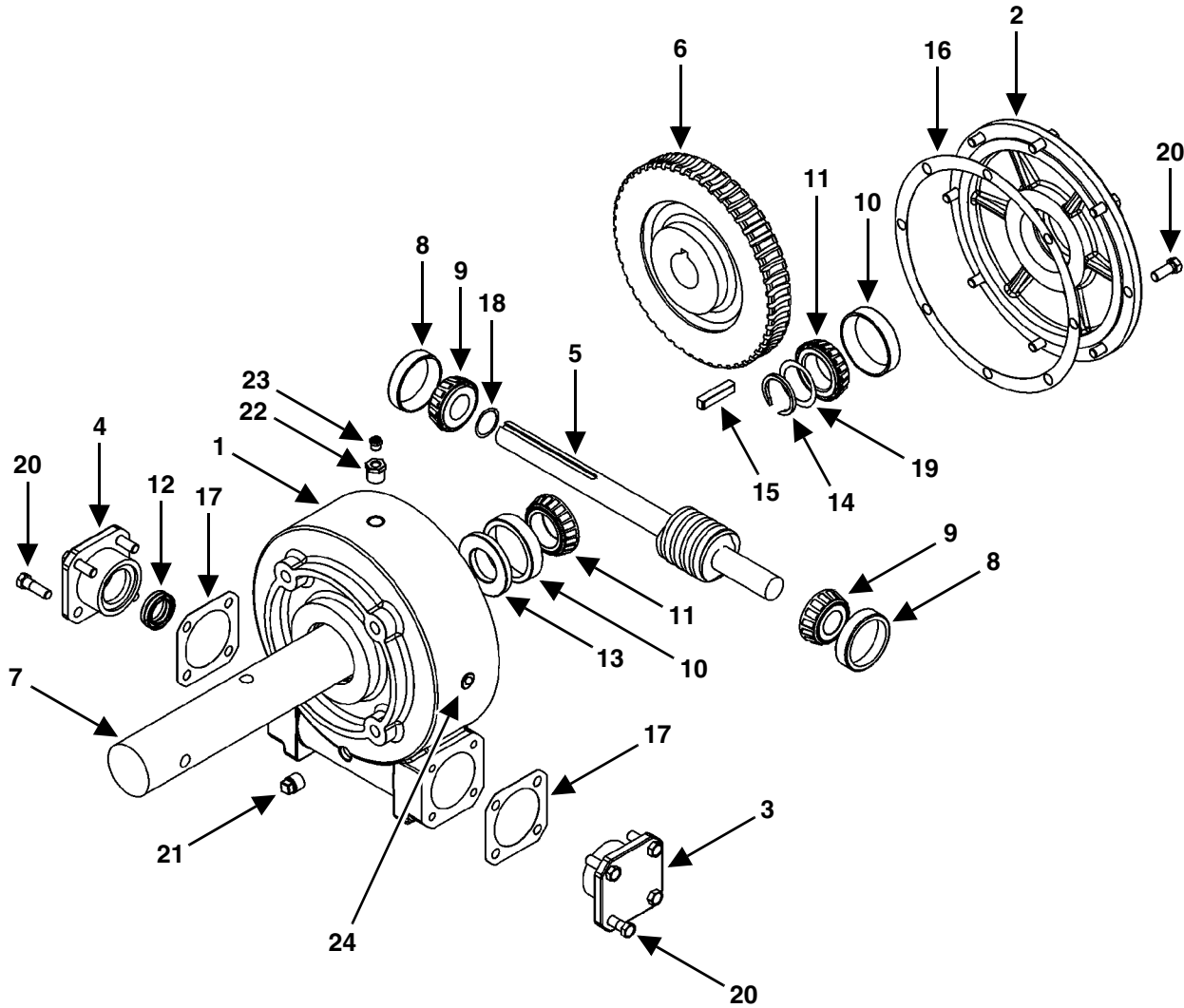


Use 88 ounces or 2-3/4 quarts #85W140 wt. Gear Lube Oil **ONLY**.
DO NOT USE GREASE FOR LUBRICANT.

KEY	PART NUMBER	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	19-0151-3	1	Output Shaft (Prior to SN 09T6201)
	23-0155-1-1045	1	Main Drive Shaft 2 x 92-3/8" (SN 09T6201 & Later)
6	19-0151-4	1	Input Shaft / Worm Assembly
7	19-0151-5	1	Gear
8	19-0151-6	1	Cover Cap
9	19-0051-9	2	Input Bearing Cone
10	19-0051-8	2	Input Bearing Cup
11	19-0061-4	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
25	851-3816-1Z	16	3/8-16 x 1" Machine Bolt Grade 5

#19-0051
LOWER GEARBOX
4600 SERIES

Superior lower gearbox used on SN 04T6244 to 08T6271. For earlier models see page 108. For later models see page 104.

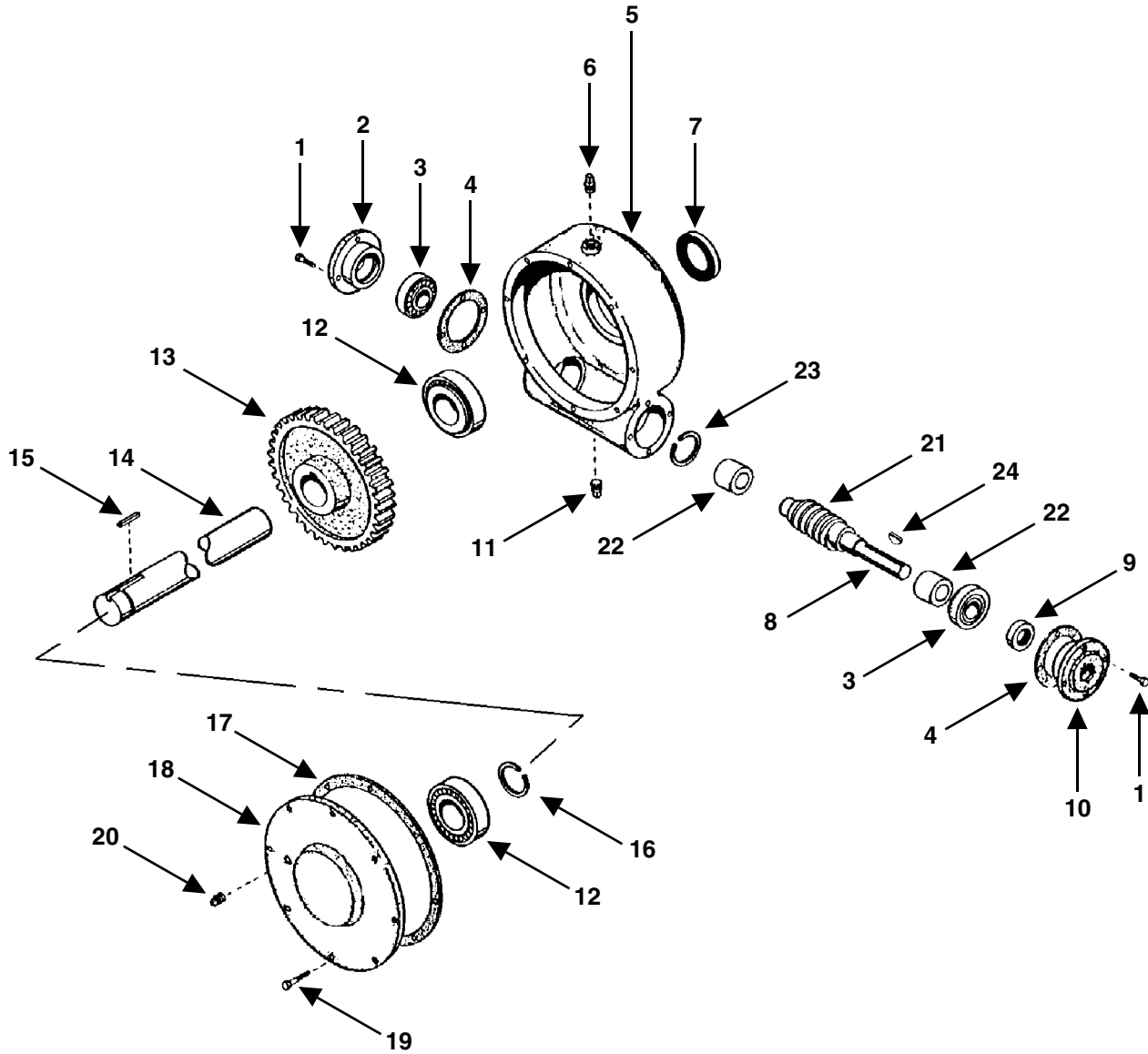


Use #85W140 wt. Gear Lube Oil **ONLY**.
DO NOT USE GREASE FOR LUBRICANT.

KEY	PART NUMBER	QTY	DESCRIPTION
1	19-0051-1	1	Housing
2	19-0051-2	1	Cover
3	19-0051-3	1	Endcap (Closed)
4	19-0051-4	1	Endcap (Open)
5	19-0051-5	1	Input Shaft / Worm Assembly
6	19-0051-6	1	Gear
7	19-0051-7	1	Output Shaft
8	19-0051-8	2	Input Bearing Cup
9	19-0051-9	2	Input Bearing Cone
10	19-0051-10	2	Output Bearing Cup
11	19-0051-11	2	Output Bearing Cone
12	19-0051-12	2	Input Shaft Seal
13	19-0051-13	1	Output Seal
14	19-0051-14	1	Retaining Ring
15	19-0051-15	1	Square Key
16	19-0051-16	1	Cover Gasket
17	19-0051-17	2	Endcap Gasket
18	19-0051-18	A/R	Input Shims
19	19-0051-19	A/R	Output Shims
20	19-0057-21	16	3/8-16 x 1" Grade 5 Cap Bolts
21	19-0051-20	5	Plug, 1/2-14 NPT SQ HD
22	19-0051-21	1	Bushing 1/2-14 x 1/8-27 NPT
23	19-0057-24	1	Plug, 5-PSI Breather
24	19-0016-5	1	Plug, Hex Head Flush

#19-0001-B
LOWER GEARBOX
4600 SERIES

Durst lower gearbox use on SN 04T6243 and prior. For later models see page 104 & 106.

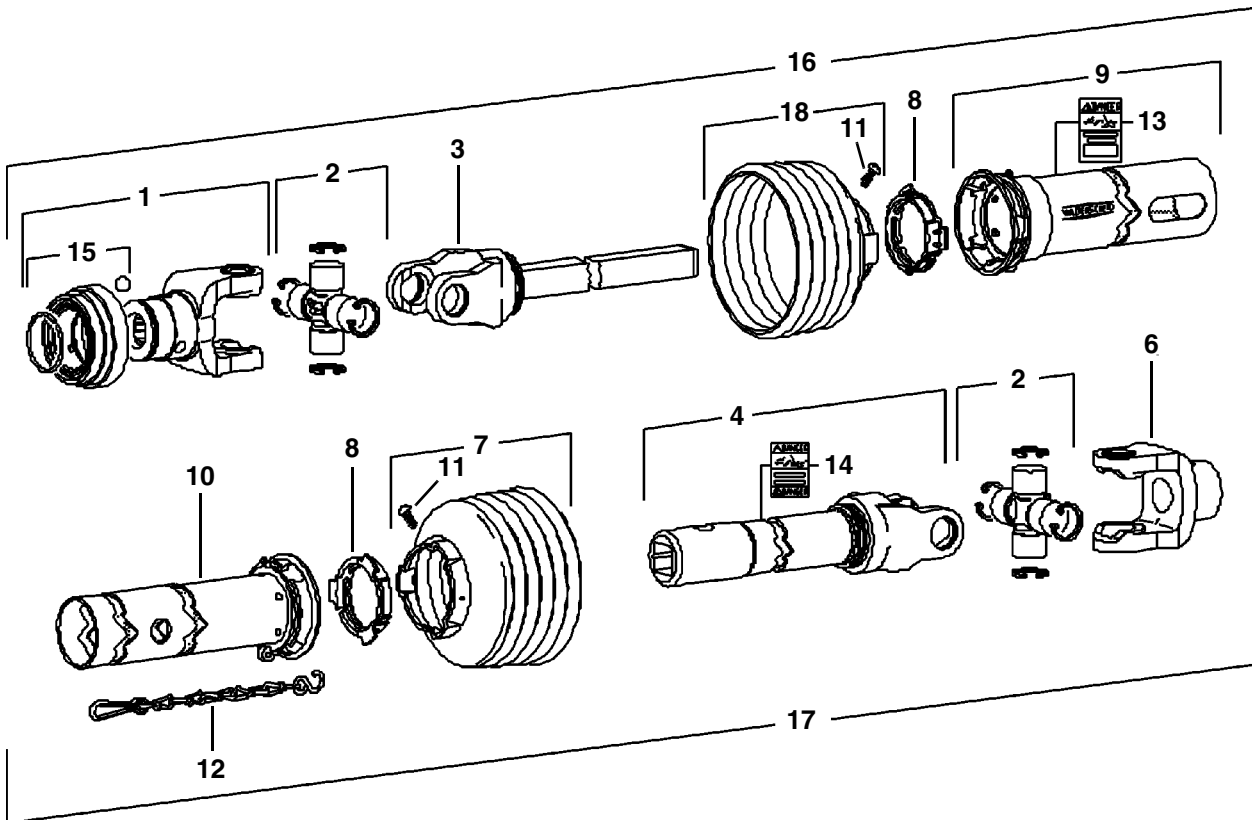


Use #80-90 wt. Gear Lube Oil **ONLY**.
DO NOT USE GREASE FOR LUBRICANT.

KEY	PART NUMBER	QTY	DESCRIPTION
	19-0001-B	1	Gear Reducer, Lower
1	19-0001-1	8	Capscrew
2	19-0001-2-B	1	Cap, End (closed)
3	19-0001-3-B	2	Cup, Bearing
	19-0001-4-B	2	Cone, Bearing
4	19-0001-5	A/R	Gasket, End cap
5	19-0001-6-B	1	Housing
6	19-0001-7	1	Plug, Vent
7	19-0001-8	1	Seal, Output
8	19-0001-9-B	1	Shaft, Worm (Input)
9	19-0001-10-B	1	Seal, Input
10	19-0001-11	1	Cap End (Open)
11	19-0001-12	1	Plug, Drain
12	19-0001-13	2	Cup, Bearing
	19-0001-14	2	Cone, Bearing
13	19-0001-15	1	Gear, Worm
14	19-0001-16	1	Shaft, Output
15	19-0001-17	1	Key, Square
16	19-0001-24	1	Ring, Snap
17	19-0001-19	1	Gasket, Cover
18	19-0001-20	1	Cover
19	19-0001-21	8	Capscrew
20	19-0001-22	1	Plug, Level
21	19-0001-25-B	1	Worm (Input)
22	19-0001-26-B	2	Spacer
23	33-0018	1	Snap Ring
24	19-0001-27-B	1	Woodruff Key

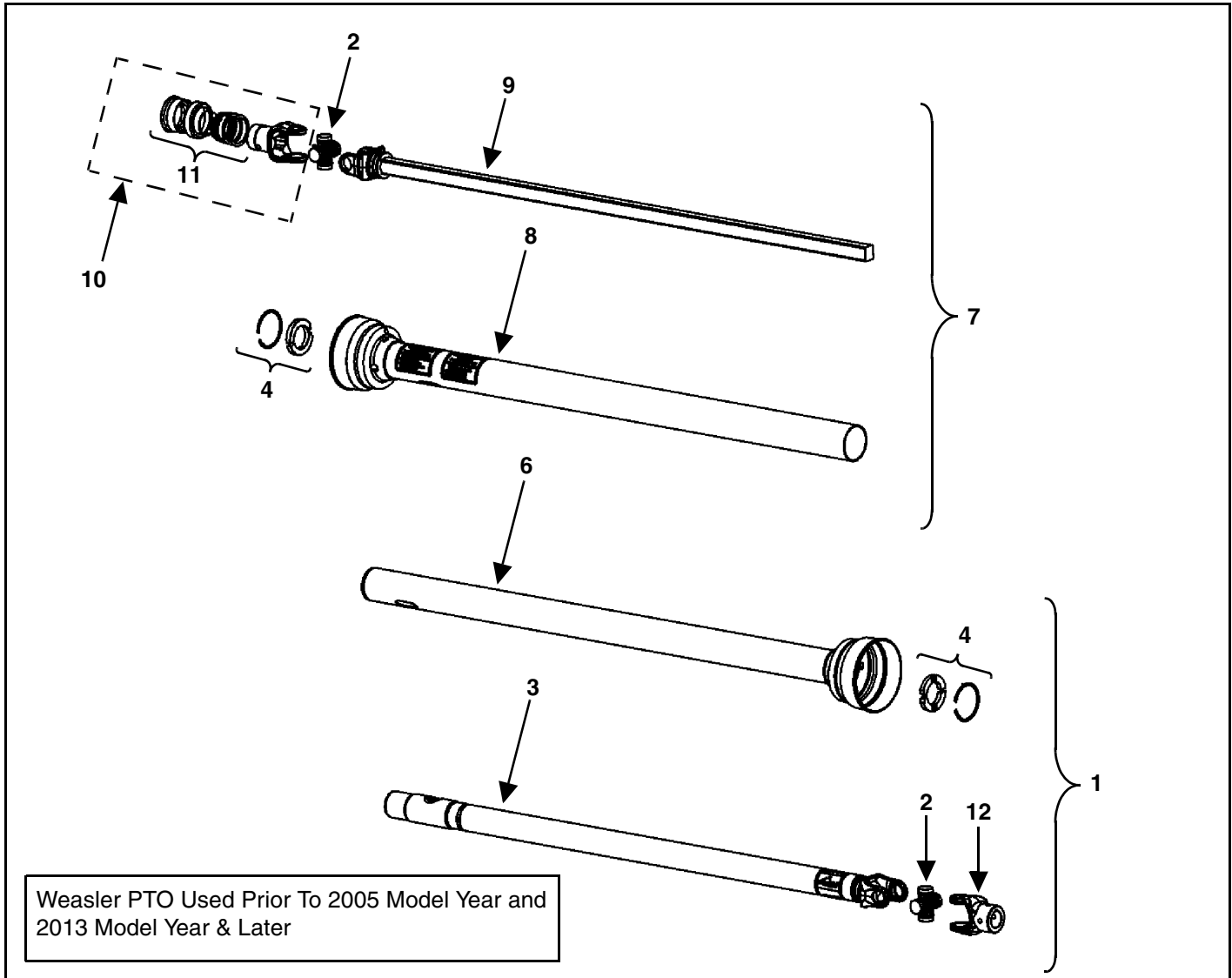
#18-0117
UNIVERSAL JOINT TELESCOPING ASSEMBLY

2005 Model Year Through 2012
Model Year



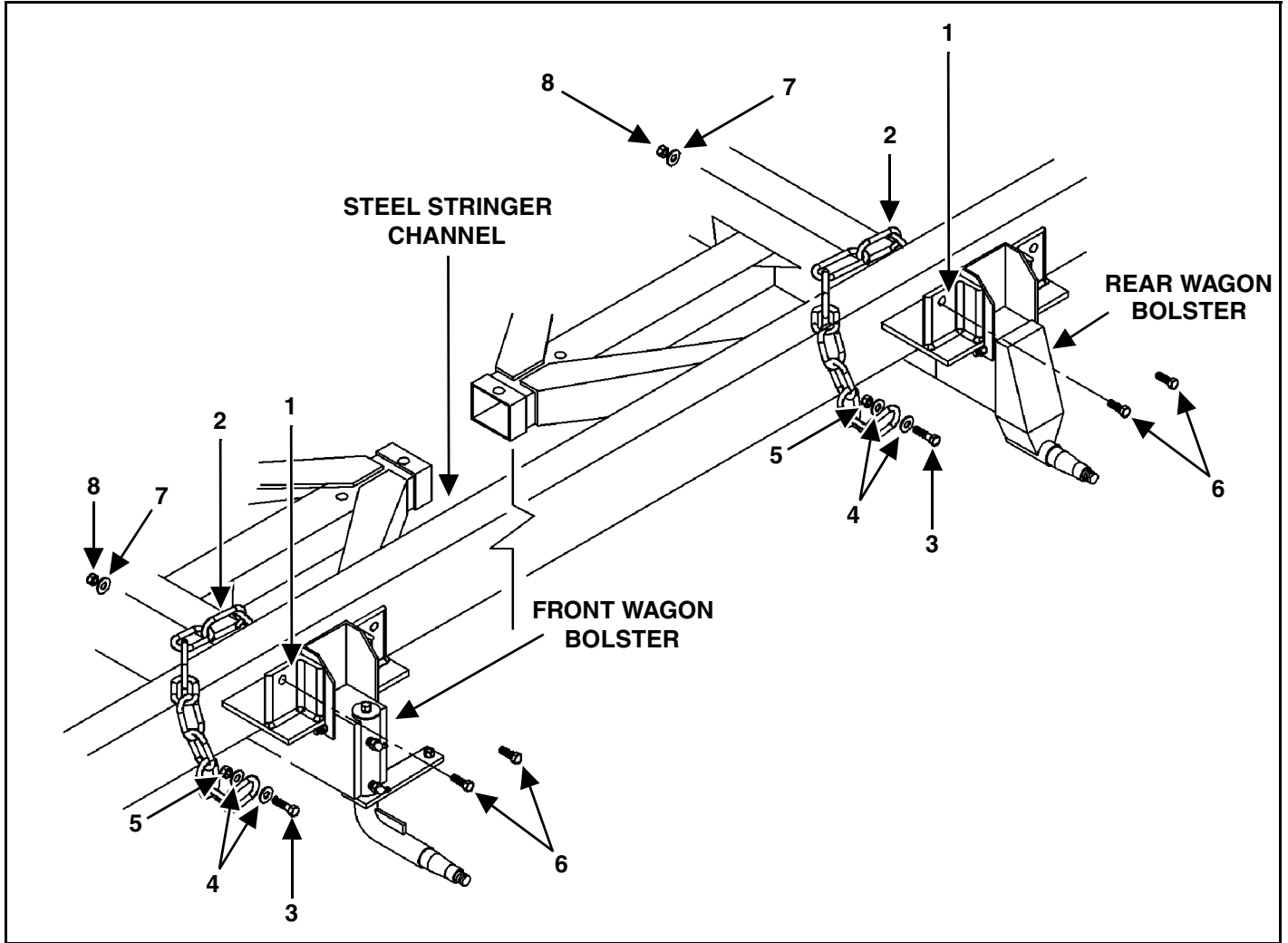
KEY	PART NUMBER	QTY	DESCRIPTION
	18-0117	1	Joint Assembly (Replace With 18-0017)
1	18-0117-1-1	1	3/8-6 Spline Yoke ASGE
2	18-0117-1-2	2	Cross and Bearing Kit
	918-0208-1-5-1	2	Grease Zerk for Cross & Bearing Kit
3	18-0117-1-3	1	Inboard Yoke and Bar Welded Assembly
4	18-0117-2-1	1	Inboard Yoke, Tube and Sleeve Welded Assembly
6	18-0117-2-2	1	1 1/4" Bore, 1/4" Key Yoke
7	18-0117-1-4	1	Shield Cone 5-Rib
8	918-0208-2-4	2	Bearing Ring SC25
9	18-0117-1-6	1	Outer Shield Tube Oval
10	18-0117-2-3	1	Inner Shield Tube Round
11	918-0208-2-9	2	Screw-Included in Item #7
12	918-0208-2-7	1	Safety Chain
13	918-0208-2-8	1	Decal Outer-Included in Item #9
14	918-0208-1-10	1	Decal Inner-Included in Item #4
15	18-0117-1-1-1	1	ASGE Collar Kit-Included in Item #1
16	18-0117-1	1	Tractor Male Half Complete
17	18-0117-2	1	Implement Female Half Shaft Complete
18	18-0117-1-7	1	Shield Cone (4 Rib)

#18-0017
12R UNIVERSAL JOINT TELESCOPING ASSEMBLY W/GUARD



KEY	PART NUMBER	QTY	DESCRIPTION
	18-0017	1	Joint Assembly, 12R Universal #222-17134
1	18-0017-4	1	Joint & Tube Half w/guard (implement half)
2	18-0017-9	2	12R Cross & Bearing Kit
3	18-0017-6	1	Yoke, Tube & Slip Sleeve
4	18-0017-10	2	Nylon Repair Kit
6	18-0017-12	1	Inner Guard w/Bearing & Retainer
7	18-0017-1	1	Joint & Shaft Half w/Guard (tractor half)
8	18-0017-11	1	Outer Guard w/Bearing & Retainer
9	18-0017-3	1	Yoke & Shaft
10	18-0017-7	1	Spring - Lock Yoke Assembly
11	18-0005-16	1	Spring - Lock Repair Kit
12	18-0017-13	1	Yoke, 1-1/4" Bore, 1/4" KWY, w/RP Hole

#52-0003S
STEEL STRINGER TIE DOWN KIT

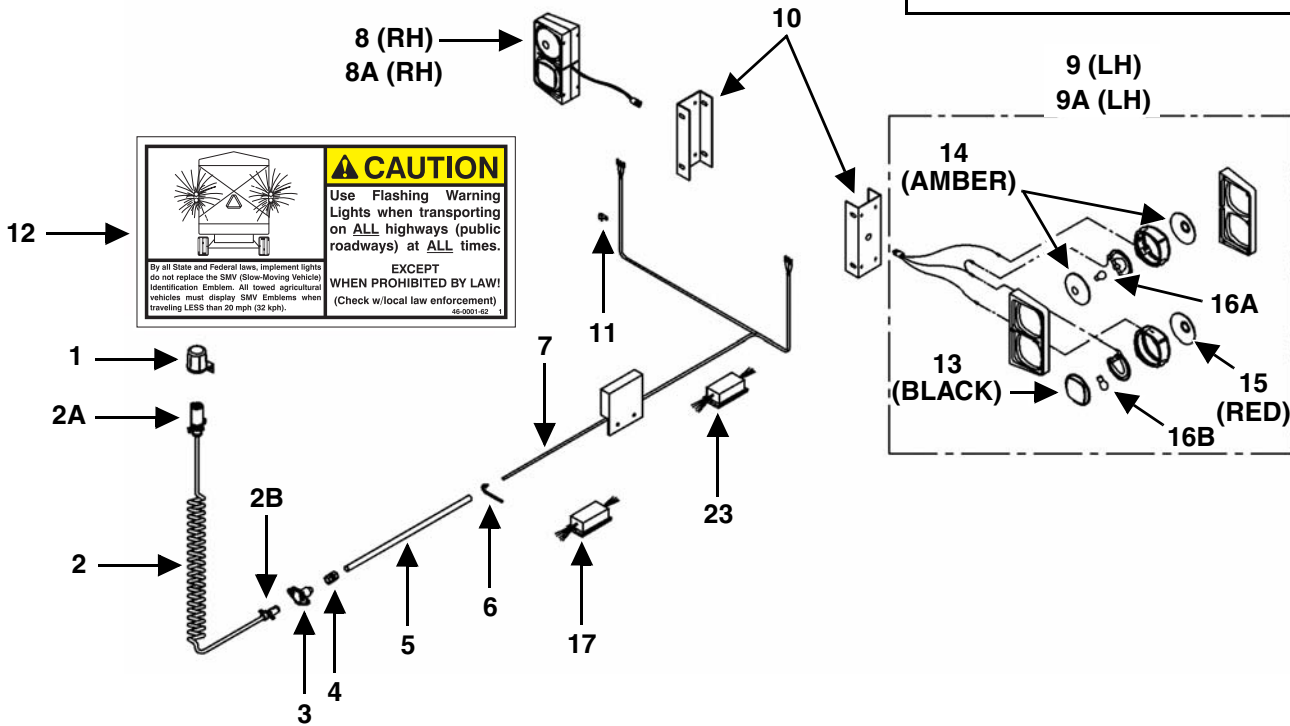


KEY	PART NUMBER	QTY	DESCRIPTION
	52-0003S	1	Tie Down Kit (Steel Stringers)
1	75-5015	4	Bracket
2	52-0003-1	4	51" Standard Tie Down Chain
	75-0341-4-HD	4	61" Heavy Duty Tie Down Chain For Riser Option
3	851-3816-1.5Z	4	Bolt, Hex Machine-3/8 x 1-1/2
4	805-0038-Z	8	3/8 Flat Washer
5	815-3816-Z	4	3/8 Lock 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

HIGHWAY LIGHT PACKAGE KIT

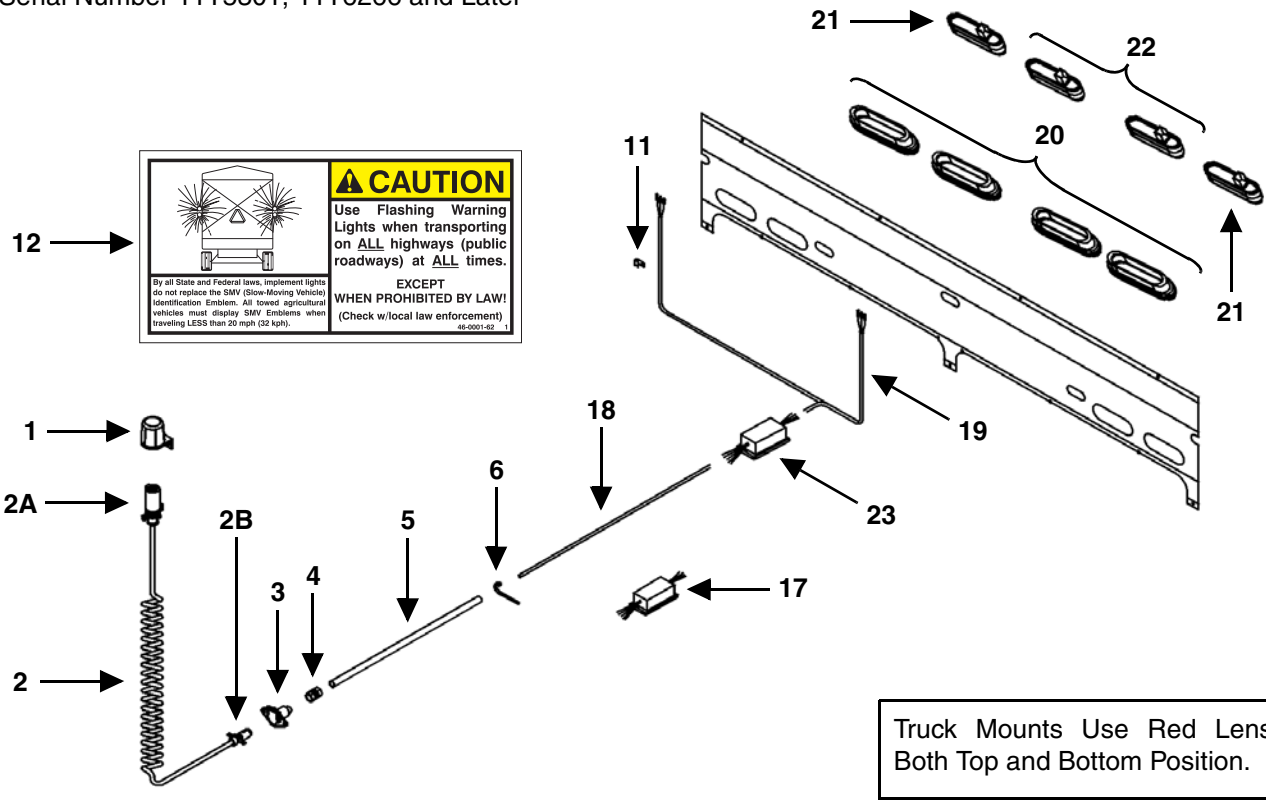
46-0001-62 Prior to Serial Number 11T5301, 11T6266

Truck Mounts Use Red Lenses in Both Top and Bottom Position.



Serial Number 11T5301, 11T6266 and Later

Truck Mounts Use Red Lenses in Both Top and Bottom Position.

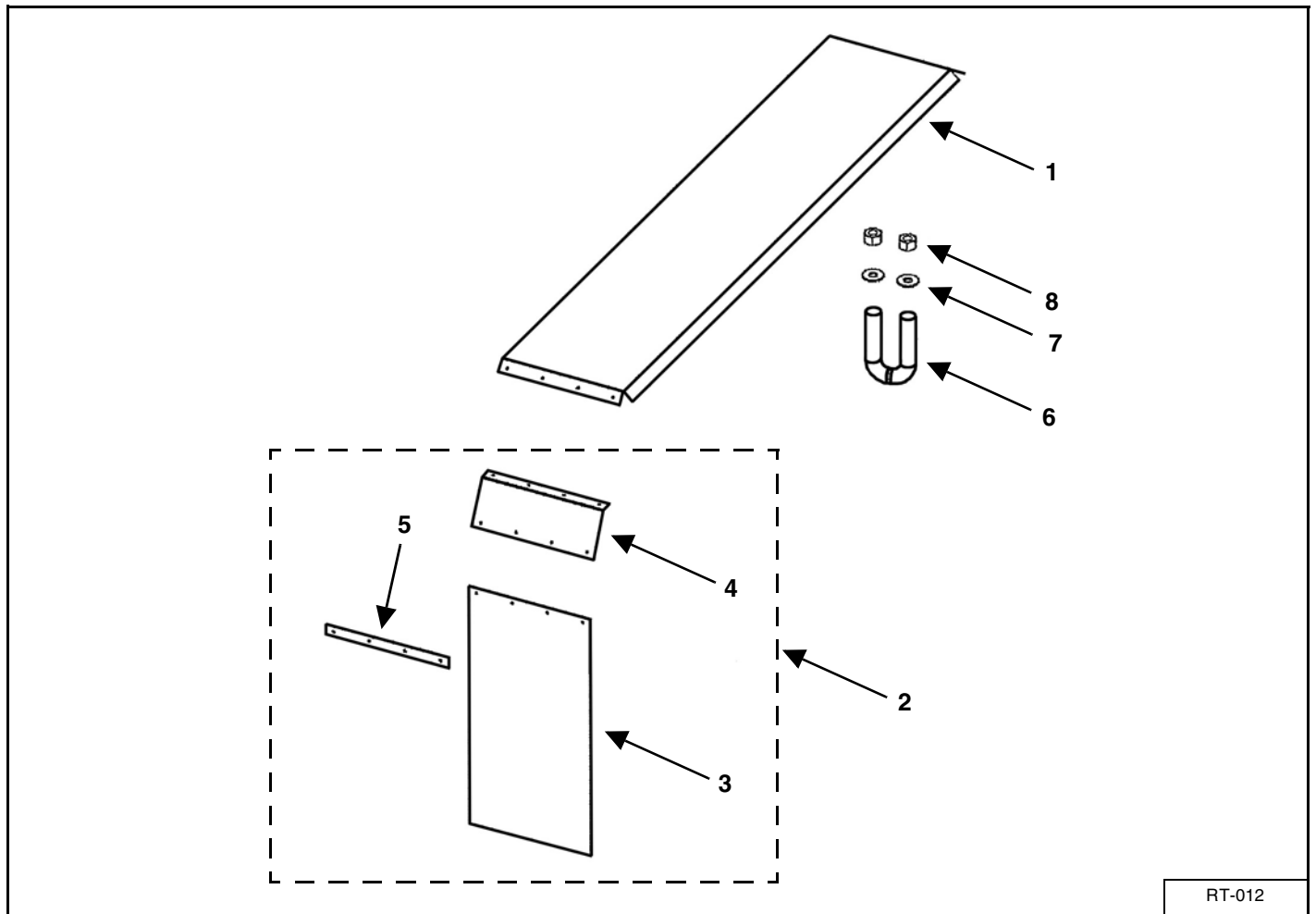


KEY	PART NUMBER	QTY	DESCRIPTION
1	56-0009	1	7-Way "Stor-A-Way"
2	56-0005	1	Coil Cable Assembly
2A	56-0005-4	1	7-Contact Plug Only W/Spring
2B	56-0005-1	1	4 Pole Plug
3	56-0004	1	#1232 4-way Socket (4 pin)
4	56-0007	1	1/2" EMT Coupler #260-D
5	56-0006	1	Light Wire Tube Deburred, 1/2" Conduit 22" Long
6	32-0026	8	14" Nylon Tie Strap
7	52-0019-LED-PKG	1	Ag Light Harness w/Module LED Update
8	56-0031	1	Dual Light RH w/4-Plug
8A	56-0031-TR	1	Truck Mount Dual Light RH w/4-Plug
8/8A	56-0034	A/R	Adapter Harness 3-Plug to 4-Plug (Needed in addition to light for SNs Prior to 06T5201, 06T6201)
9	56-0030	1	Dual Light LH w/4-Plug
9A	56-0030-TR	1	Truck Mount Dual Light LH w/4-Plug
9/9A	56-0034	A/R	Adapter Harness 3-Plug to 4-Plug (Needed in addition to light for SNs Prior to 06T5201, 06T6201)
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 09T6239, 09T5333)
	56-0030-3	2	Bezel Blank, Black (Fit Over Housing) (SN 09T6239, 09T5333 & Later)
14	56-0001-1	4/2	Amber Lens (Fit Inside Housing) (Prior To SN 09T6239, 09T5333)
	56-0030-1	4/2	Amber Lens (Fit Inside Housing)(SN 09T6239, 09T5333 & Later)
15	56-0001-2	2/4	Red Lens (Fit Inside Housing) (Prior To SN 09T6239, 09T5333)
	56-0030-2	2/4	Red Lens (Fit Inside Housing) (SN 09T6239, 09T5333 & Later)
16A	56-0001-5	2	#1156 Bulb Single Filament Bulb
16B	56-0001-4	2	#1157 Bulb Dual Filament Bulb
17	56-0028	1	Tail Light Converter (Truck Mount Only)
18	56-0037	A/R	4 Conductor Trailer Cable
19	56-0130	1	LED Light Y-Harness
20	56-0082	4	6" Oval Grommet
21	56-0081	2	6" Oval Amber LED Light
22	56-0115	2/4	6" Oval Red LED Light
23	56-0032-1	1	AG Module w/Connectors (Prior to SN 11T5301, 11T6266)
	56-0084	1	LED AG Module w/Connectors (SN 11T5301, 11T6266 & Later)



10.0 OPTIONAL EQUIPMENT

TRUCK MOUNT FENDER AND MUD FLAP



RT-012

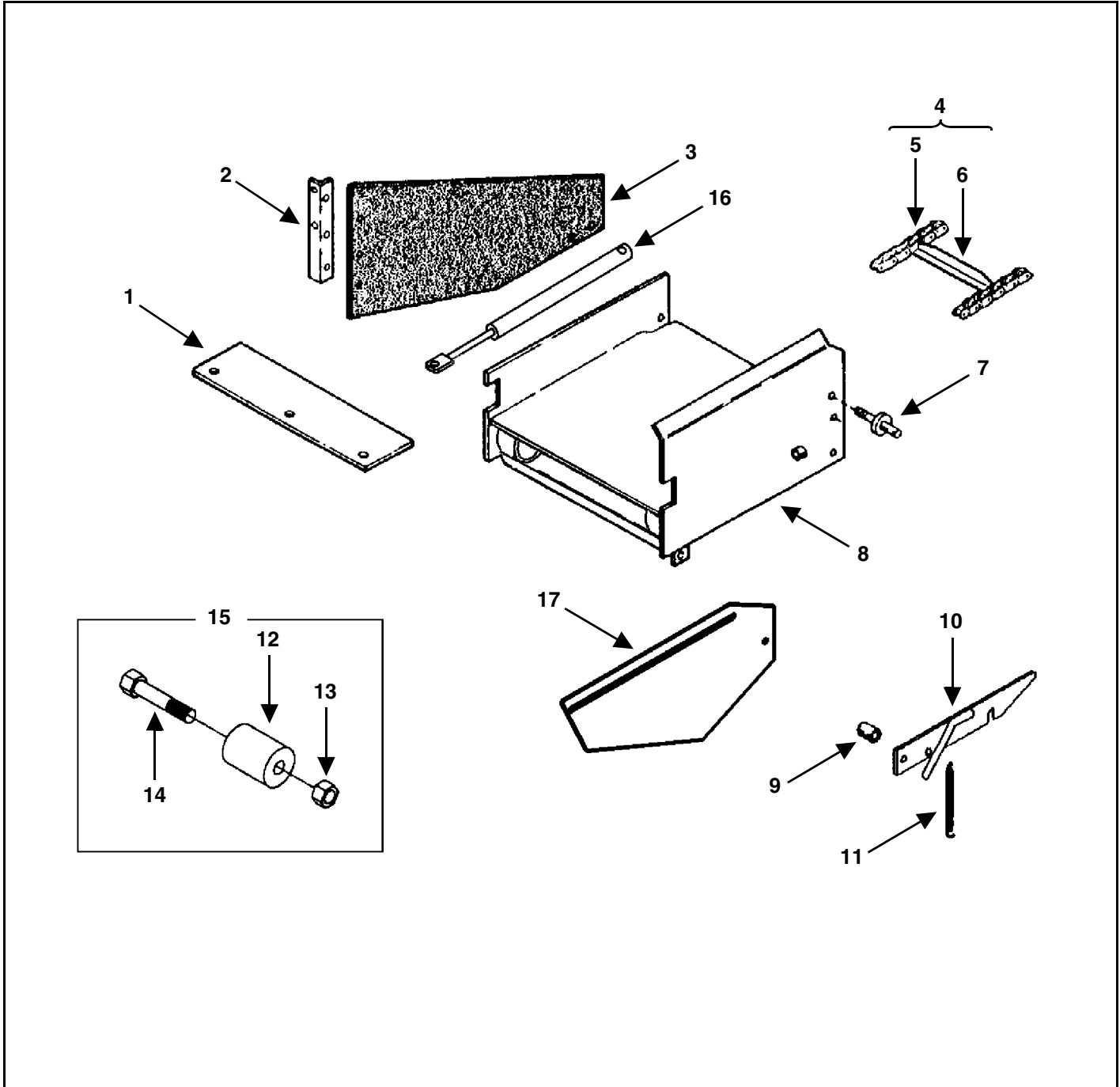
KEY	PART NUMBER	QTY	DESCRIPTION
1	8100-FENDER	1	Red Fender Kit with Mounting Hardware, No Mud Flap
	25-8008	2	Red Fender Only
2	8100-MUD-FLAP	1	8100 Mud Flap & Bracket Kit
3	49-0092	2	8100 Mud Flap
4	25-8014-1	2	Mud Flap Mounting Bracket
5	25-8212	2	Mud Flap Attaching Strip
6	52-0026-5	8	1/2" U-Bolt
7	804-0050-Z	16	1/2" Fender Washer
8	815-5020-Z	16	1/2" Nylon Locknut

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

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

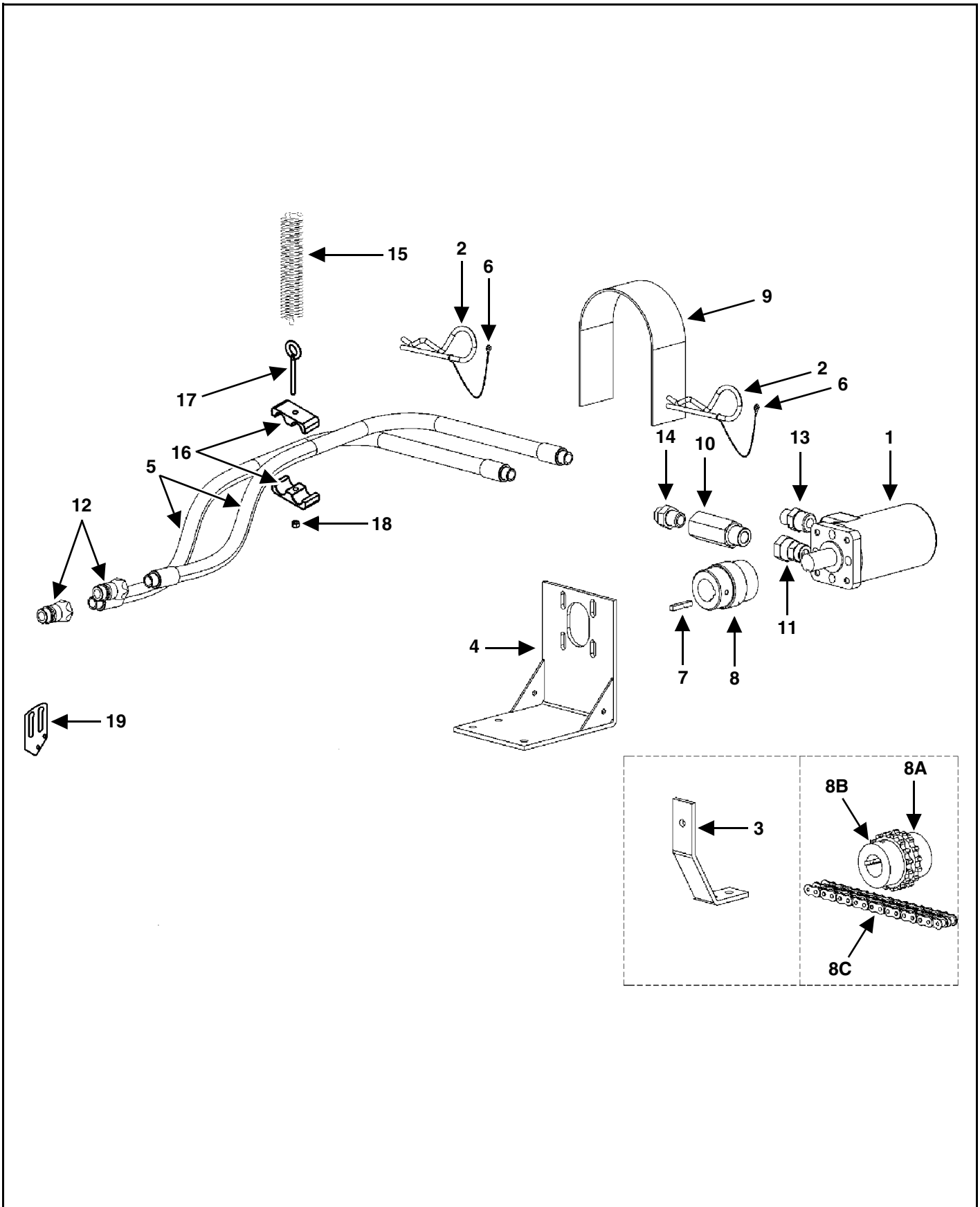
#52-0021 OPTIONAL HYDRAULIC LIFT PKG
(Not Shown)

#52-0009K-FB CROSS CONVEYOR EXTENSION KIT



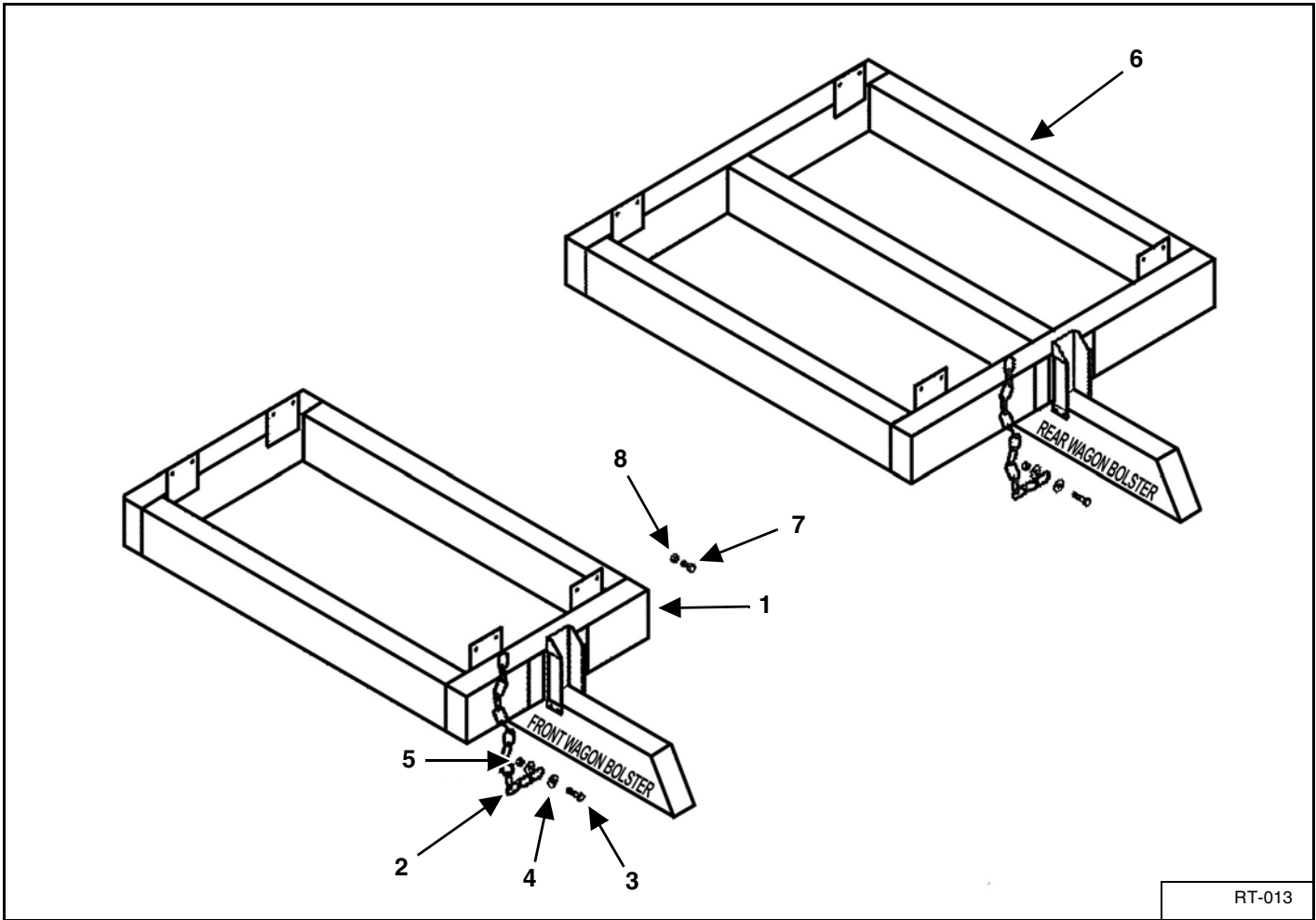
KEY	PART NUMBER	QTY	DESCRIPTION
0	52-0001-TK	1	TSS Optional Extension Kit 12"
	52-0001-TK-RH	1	TSS Optional Extension Kit 12" Right Hand Unload
	52-0009K-FB	1	Cross Conveyor Extension Kit
1	24-0068	1	Cross Apron Top Panel Shield
	803-3118-1Z	3	5/16" x 1" Flat Head Bolt
	810-3118-Z	3	5/16" Spin Lock Nut
2	25-0075	1	Belting Shield Mount Angle
3	49-0004	1	Belting, Shield
4	11-0061-D	1	Chain Assembly, Pintle Extension
	11-0061-D	2	Chain Assembly, Pintle 2' Extension
	11-0122	1	36" Extension Section Cross Apron Pintle Chain Assembly
5	11-0006-1	AR	Link, Pintle
6	11-0006-2	AR	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		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 Hold Down 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)
	Hydraulic Lift Extension Parts (Not Shown)		
	55-0093	1	2" x 8" Hydraulic Cylinder
	25-0235	1	Upper Cylinder Mount Plate
	955-0002	2	3/8" x 27" Hydraulic Hose
	55-0054	1	3/8" x 21" Hydraulic Pipe
	55-0067	1	3/8" x 14" Hydraulic Pipe
	955-3605	2	3/8" x 90° Elbow
	155-5000-06-06	4	3/8" NPT Coupler
	955-0003	2	3/8" x 90° Street Elbow
	933-3602	1	Hydraulic Pipe Bracket
	25-0234	1	Hydraulic Pipe Mount Bracket
	55-0052	2	3/8 x 24" Hydraulic Pipe
	29-0029-P	1	Hydraulic Hose Tender Spring Kit W / Sleeve & Hardware
	29-0029-1	1	3 - Hole Clamp Assembly W / U-Bolt (Prior to SN 16T5245, 16T6201)
	55-0324	2	Stauff Compact Twin Series Clamp (SN 16T5245, 16T6201 & Later)
	811-3118-2Z	1	5/16"-18 x 2" Eyebolt
	805-0031-Z	2	5/16" Flat Washer
	815-3118-Z	1	5/16"-18 Nylon Insert Lock Nut
	55-0051	2	1/4" x 130" Hydraulic Hose
	75-0205-9	1	7/32" x 2" Cotter Pin

OPTIONAL HYDRAULIC DRIVE



KEY	PART NUMBER	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" 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 W/Sleeve & Hardware
16	55-0033	1	3 - Hole Clamp Assembly W/U-Bolt
17	811-3118-2Z	1	5/16" Eye Bolt (Prior to SN 14T3294, 14T5392 & 14T6296)
18	810-3118-Z	1	5/16" Spin Lock Nut (Prior to SN 14T3294, 14T5392 & 14T6296)
19	25-0249-1	1	Holder for Hydraulic Hose Ends
NS	46-8500-7	1	Hydraulic Pressure Decal (Not Shown)

WAGON MOUNT KIT



RT-013

KEY	PART NUMBER	QTY	DESCRIPTION
1	25-8025	1	Wagon Mount Weldment - Front
2	75-0341-4-HD	4	Chain, 61" Long
3	851-3816-1.5Z	4	Bolt, 3/8"-16 x 1.5" Hex Head Machine Bolt
4	805-0038-Z	8	Washer, 3/8" Flat
5	814-3816-Z	4	Nut, 3/8"-16 Center Lock
6	25-8026	1	Wagon Mount Weldment - Rear
7	851-5013-1.25Z	16	Bolt, 1/2"-13 x 1.25" Hex Head Machine Bolt
8	815-5013-Z	16	1/2"-13 Nylon Locknut

11.0 TROUBLESHOOTING

DESCRIPTION	SYMPTOM	PROBLEM	SOLUTION
Augers	Augers shake or chatter.	Stiff roller chains - dry.	Lubricate roller chains.
		Loose roller chains.	Tighten roller chains.
		Worn sprockets / chains.	Replace sprockets / chains.
		Bad roller bearings.	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.	Clean sheaves.
		Use of "HI" Range w / full load.	Use "LO" Range w / full loads.
	Belt wear/breakage.	Variable speed not adjusted.	Adjust variable speed.
		PTO starting w / belt engaged.	Start PTO w / belt in "Neutral."
	Sheave pin breakage.	Incorrect operating procedures.	Follow correct operating procedures.
PTO starting w/belt engaged.		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 Box	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.
	Broken gears.	High speed start-up / no oil.	Slow start-up / fill with oil.
		Worn out gears.	Replace gears.
	HI - LO Range	Hard to shift lever.	Unit not running.
"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 Driveline	Whips / shakes.	Over extended or bent PTO.	Shorten wagon gear hitch length. Straighten / replace PTO.
		Vibrates up and down.	Forage box center shaft bent.
	Worn universal joints.	Lack of lubrication / used.	Lubricate joints regularly or replace.
Roller Chains And Sprockets	Excessive chain wear.	Lack of lubrication.	Lubricate / align / tighten.
		Out of alignment / loose.	
	Roller chain breakage.	Loose roller chain.	Tighten roller chains.
		Worn sprockets.	Replace sprockets.
	Sprocket teeth tipped over.	Worn roller chain.	Replace roller chain.
Bad roller bearings.		Replace bearings.	
Safety Clutch	Does not trip.	Bad or damaged clutch.	Replace safety clutch.
		Safety cable disconnected.	Re-fasten safety cable.
		Safety cable broken.	Replace safety cable.



12.0 SPECIFICATIONS

DIMENSIONS	3514	3516	3518	4516	4518	4616	4618	4620
Floor Length	14' 6"	16' 6"	18' 6"	16' 6"	18' 6"	16' 6"	18' 6"	20' 6"
Overall Length	17' 4"	19' 4"	21' 4"	19' 4"	21' 4"	19' 4"	21' 4"	23' 4"
Overall Width	All Models 107"							
Inside Width	All Models 87"							
Overall Height	All Models 113-1/2" w / Roof							
Inside Height	All Models 94" w / Roof							
Cross Conveyor Width	All Models - 21"							
Cross Conveyor Outfeed	12" Extension Standard					24" Fold-up Standard		

SPECIFICATIONS	3514	3516	3518	4516	4518	4616	4618	4620
Weight	3960#	4240#	4520#	4480#	4760#	4680#	4960#	5240#
Main Apron	667H	667H	667H	667H	667H	667X	667X	667X
Speed Selection	All Models - Low Range: 0 - 7.5'/minute High Range 0 - 17'/minute							

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.





Meyer Manufacturing Corporation

674 W. Business Cty Rd A

Dorchester, WI 54425

Phone: 1-800-325-9103

Fax: 715-654-5513

Email: sales@meyermfg.com

Website: www.meyermfg.com