

OPERATOR'S AND PARTS MANUAL NO. PB-DUMP  
FOR  
3100 & 4100 SERIES

# MEYER

## QUICK DUMP REAR UNLOAD BOX

3100 SERIES      4100 SERIES

|      |      |
|------|------|
| 3114 | 4116 |
| 3116 | 4118 |
| 3118 | 4120 |
| 3120 | 4122 |
|      | 4124 |

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



MANUFACTURED BY  
***Meyer Mfg. Corp.***

674 W. Business Cty Rd A  
P.O. Box 405  
Dorchester, Wisconsin 54425-0405  
Phone 715-654-5132 • FAX 715-654-5513  
1-800-325-9103  
[www.meyermfg.com](http://www.meyermfg.com)  
E-mail: [sales@meyermfg.com](mailto:sales@meyermfg.com)



## 1.0 IMPORTANT INFORMATION

Prior to 2016 model year, the serial number is stamped on the front left hand upright.

For 2016 model year and later, the serial number plate is found on the front left hand upright.

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.** \_\_\_\_\_



Model Year 2016 and  
Later Serial Number  
Plate

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

### HOW TO READ YOUR SERIAL NUMBER

**EXAMPLE: QD12242**

**Model Type / Model Year / Sequence Of Build**

↓                      ↓                      ↓  
**QD                      12                      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



# PRE-DELIVERY & DELIVERY CHECK LIST

3100 / 4100 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.
- 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.
- 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 start-up & shutdown controls, proper hydraulic hose storage and tip holder used to keep system clean from contaminants.
- 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.

### 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*



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



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

**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.

# TABLE OF CONTENTS

|   |    |
|---|----|
| 1.0 IMPORTANT INFORMATION .....                                   | 2  |
| PRE-DELIVERY & DELIVERY CHECK LIST .....                          | 3  |
| 3.0 INTRODUCTION .....  | 4  |
| MANUFACTURER'S WARRANTY .....                                     | 7  |
| SAFETY PRECAUTIONS .....  | 8  |
| SAFETY FIRST .....  | 9  |
| PRE-OPERATION .....   | 11 |
| TRANSPORTING .....  | 12 |
| OPERATION .....   | 13 |
| ADJUSTMENTS .....   | 15 |
| APRON CHAIN .....   | 15 |
| ROLLER CHAIN DRIVES .....   | 15 |
| LUBRICATION .....   | 16 |
| REPAIR PARTS .....  | 18 |
| APRON - REAR UNLOAD QUICK DUMP .....                              | 18 |
| 3100-4100 SERIES HYDRAULIC REAR UNLOAD COMPONENTS .....           | 22 |
| 19-0026 HYDRAULIC REAR GEARBOX .....                              | 26 |
| 19-0126 REAR GEARBOX .....  | 28 |
| 19-0226<br>3100 & 4100 SERIES .....                               | 30 |
| 19-0201 REAR GEARBOX .....  | 32 |
| 19-0044<br>1:1 RATIO GEARBOX .....                                | 34 |
| 18-0119<br>UNIVERSAL JOINT TELESCOPING ASSEMBLY .....             | 36 |
| 18-0019<br>12R UNIVERSAL JOINT TELESCOPING ASSEMBLY W/GUARD ..... | 37 |
| DRIVE TRAIN .....   | 38 |
| REAR DISCHARGE DOOR COMPONENTS .....                              | 40 |

|   |    |
|---|----|
| DUMP BOX PARTS .....                    | 42 |
| WELDED BOX PARTS .....                  | 48 |
| HIGHWAY TRANSPORT AG LIGHTS .....       | 52 |
| GATE DELAY .....                        | 54 |
| GATE DELAY/RETURN LINE (OPTIONAL) ..... | 56 |
| TIE DOWN KIT FOR STEEL BOX .....        | 58 |
| TROUBLESHOOTING .....                   | 59 |
| SPECIFICATIONS .....                    | 60 |
| MAINTENANCE RECORD .....                | 64 |

# MANUFACTURER'S WARRANTY

## MEYER (REAR 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:
      - Two (2) Years:
        - a. The 3100 and 4100 Series enclosed main apron drive gearbox assembly, Meyer #19-0026, 19-0126 and 19-0226.
        - b. The D667X pintle main apron chain assembly.
      - ii. Any part of the following which is defective in material or workmanship (not neglect to recommended use and service) with a "pro-rated" charge for parts only (not labor) during the stated time period from date of purchase to the original retail customer:
        - Ten (10) Years:
          - a. The all bolted or all welded steel frame box structure.
          - b. The aluminized steel or galvanized steel painted panels which comprise the sides and rear of the box portion 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.

# **SAFETY PRECAUTIONS**



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



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

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

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

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

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

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

DO NOT clean, adjust or reset the emergency stop while the forage box is in motion.

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

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

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

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

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

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

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

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

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

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

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

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

Use only properly rated running gear and tires.

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

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

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

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

## **Study the Above Safety Rules**

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

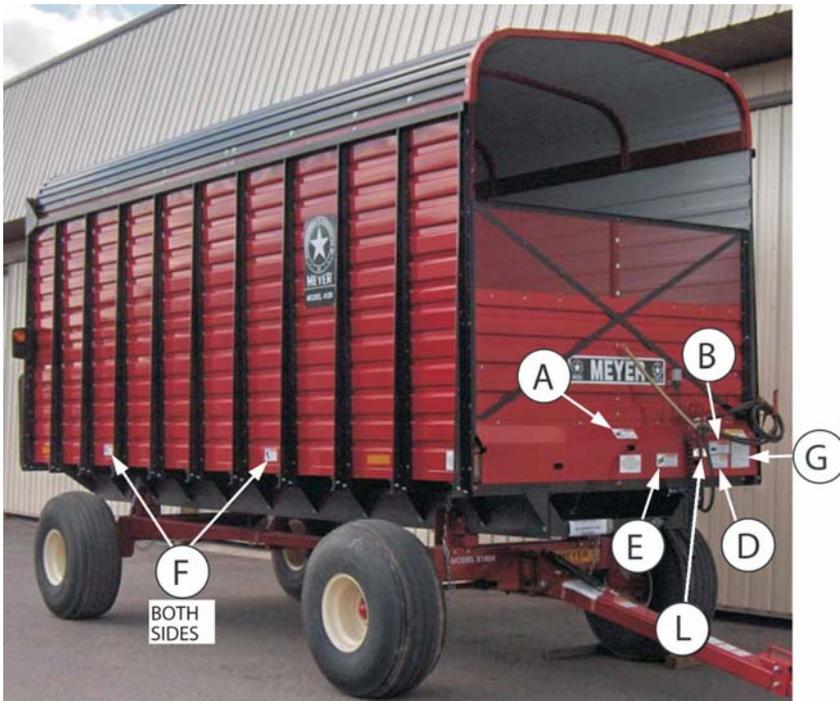
# SAFETY FIRST

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

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

 **WARNING** indicates a potentially hazardous situation which, if not avoided, COULD result in death or serious injury and includes hazards that are exposed when guards are removed.

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



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

# SAFETY DECALS



DECAL A.  
PART #46-0001-26



DECAL B.  
PART #46-0001-35



DECAL C.  
PART #46-0011-D



DECAL d.  
PART #46-0001-62



DECAL E.  
PART #46-8500-7



DECAL F.  
PART #46-0001-20



DECAL G.  
PART #46-0001-22



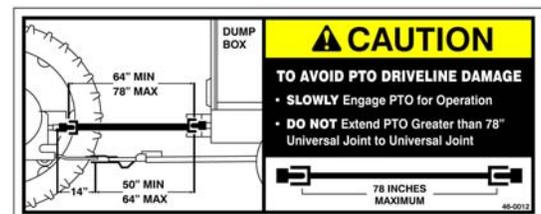
DECAL H. (PTO)  
PART #46-0001-4



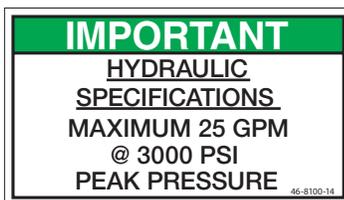
DECAL K. (PTO ONLY)  
PART #46-0001-33



DECAL I. (PTO ONLY)  
PART #46-0001-13



DECAL J. (PTO ONLY)  
PART #46-0012



DECAL L.  
PART #46-8100-14

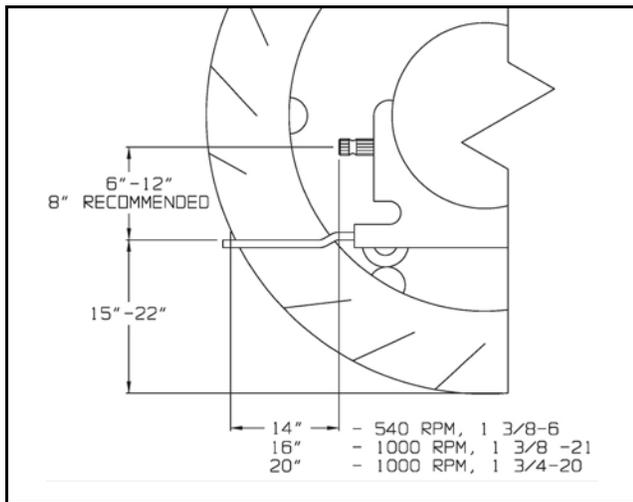
# PRE-OPERATION

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

This dump box is to be operated with 540 RPM PTO only. This dump 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 shown on figure 1. This will ensure that the PTO drive shaft will not be over extended.

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

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



**FIGURE 1. DRAWBAR & PTO RELATIONSHIP**

Inspect all adjustments on the machine to be sure they are proper and to provide maximum performance. Lube the machine if it is required.

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

Before operation and after hitching the tractor to the wagon, connect the PTO. Slowly engage the tractor PTO and operate box at idle speed to ensure it is operating properly.



**FIGURE 2. DUMP BOX**

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 1500 RPM. Set up hydraulic system on Truck mounted units with a minimum of a 30 gallon reservoir. 3/4" NPT hydraulic hookup.

Call the factory for further information.

**NOTE: The PTO horsepower and/or hydraulic requirements may not reflect adequate tractor size for towing the machine.**

**! IMPORTANT: Do not exceed maximum PSI or a motor failure could result.**

# TRANSPORTING

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

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

Always disconnect the PTO drive shaft from the tractor and return it to its storage bracket on the front of the box for transporting, see figure 3. Failure to do this may result in equipment damage.

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

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

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

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.



**FIGURE 3. PTO STORAGE**

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

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

# OPERATION

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

Pull the dump box into positions.

Always park as straight ahead as possible so there is a minimum angle on the PTO shaft U-joints when it is connected to the tractor. Set the brakes and shut the tractor off.

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

Remove drive shaft from the 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.

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

The rear door, figure 4, is opened automatically as forage is forced against it. The door can spring open with extreme force when the latches release, figure 5. This is caused by the pressure of the forage against the door.

**! WARNING: DISCHARGE DOOR CAN SPRING OPEN QUICKLY AND WITH FORCE. KEEP ALL PERSONS WELL CLEAR OF THE DUMP BOX AND UNLOADING AREA. FAILURE TO HEED MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.**



**FIGURE 4. REAR OPENING DISCHARGE DOOR**



**FIGURE 5. DOOR LATCH  
(Typical both sides)**

Return to the tractor, restart, and slowly engage the PTO to start the apron chains and open the rear door. Once the door opens, regulate the discharge flow with the tractor PTO speed (or tractor hydraulic flow control for hydraulic driven). Do not operate above rated speed of 540 RPM.

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

Unloading is best observed from the tractor seat. If you are at ground level, the front of the box has a top section of expanded metal for convenient observation.

When finished unloading reduce speed to idle and disengage the PTO drive. Pull the dump box straight ahead to pull the door away from the unloaded pile of forage. When free gravity will allow the door to swing shut and the door latches will engage the apron chain links to secure it shut. Observe that this happens properly. Set the brakes and turn the tractor "OFF". When all movement has stopped, disconnect the PTO drive shaft from the tractor and return it to its storage bracket. Secure it with the rubber tie down strap.

 **WARNING: DO NOT STEP OVER THE POWER TAKE-OFF SHAFT. STAY CLEAR OF POWER TAKE-OFF SHAFT AT ALL TIMES. FAILURE TO HEED MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.**

The unloading process described is to be accomplished by the operator alone. This will eliminate unexpected startups and minimize other hazards that can result by more than one person in control. If the dump box becomes clogged, shut off all power to the dump box. Wait for all motion to stop. Disconnect PTO shaft or hydraulic supply hoses. Then clean out machine. Never use power to aid clean out. If any mechanism fails, remove dump box to safe work area and repair the mechanism before proceeding with unloading.

 **DANGER: NEVER ENTER THE DUMP BOX WITHOUT FIRST DISCONNECTING PTO SHAFT FROM POWER SUPPLY OR DISCONNECTING OPTIONAL HYDRAULIC HOSES FROM POWER SUPPLY. FAILURE TO HEED MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.**

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

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

Allow box to completely clean out the last load of forage. It is recommended to lube the dump box before storage to exclude moisture from bearings. Apply oil to roller chain drives and to the apron chains. It is also a good time to inspect all adjustments and check for parts that need repair or replacement. Performing these tasks now will guarantee that the box is ready for use at the beginning of the next season.

# ADJUSTMENTS

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

## APRON CHAIN

Correct tension on the apron chains is when about three feet of chain does not touch the return slides at the rear of the box. To tighten chains, tighten the adjuster bolts at each end and center of the front sprocket shaft, see figure 6. Each apron chain has its own sprocket shaft. At the center cutout there is an adjuster bolt for each shaft. Tighten the adjuster bolts at each end of each shaft equally.

## ROLLER CHAIN DRIVES

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



**FIGURE 6. ADJUSTER APRON CHAINS**

# LUBRICATION

**NOTE:** Use a grease type that is composed of a high quality lithium complex or better, unless otherwise stated. We recommend using a #1 grade in colder temperatures or a #2 grade in warmer temperatures.

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

**L1** Grease (2) PTO drive (not shown) shaft joints daily.

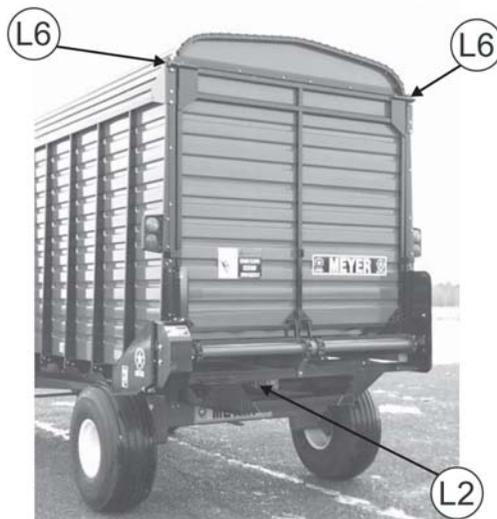
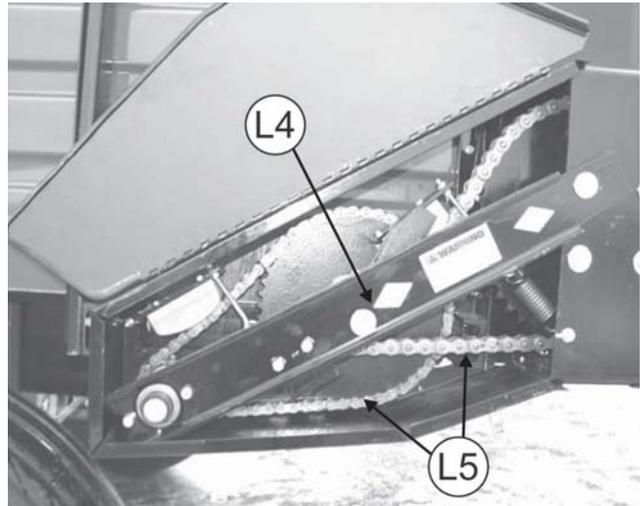
**L2** Maintain oil in gearbox to centerline of shafts. Use multi-purpose 80-90 transmission lube. Lighter oil may be used in temperatures lower than 20 degrees.

**L3** Grease the (3) main apron drive shaft bearings at rear, weekly.

**L4** Grease jack shaft at rear, weekly.

**L5** Use light machine oil periodically on the roller chain drives weekly. (PTO Drive)

**L6** Grease (2) door hinges annually.

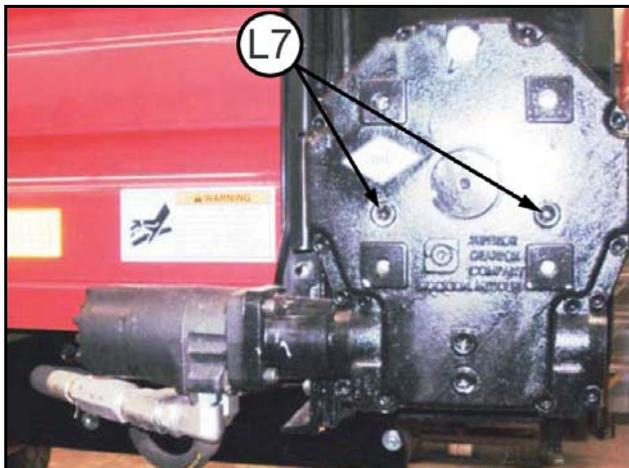


**L7** I-260/W-260--Maintain oil in the rear main apron drive gearbox at the check plug level. Change oil in the gearbox after the first season of use and yearly thereafter. Use #85W140 wt. Gear Lube Oil. Lighter oil may be used in temperatures below 20° F. See Figure 7.

**L8** RT250--Maintain the lube level visible in the apron drive gearbox sight glass. Check regularly for any observable leakage. If oil leakage is excessive, replace required input/ output shaft oil seals. Use ONLY EP #80-90 wt. gear lube oil or an equivalent. A fill plug is provided. Change oil in the gearboxes after the first season of use and regularly thereafter. See Figure 8.

**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                 |



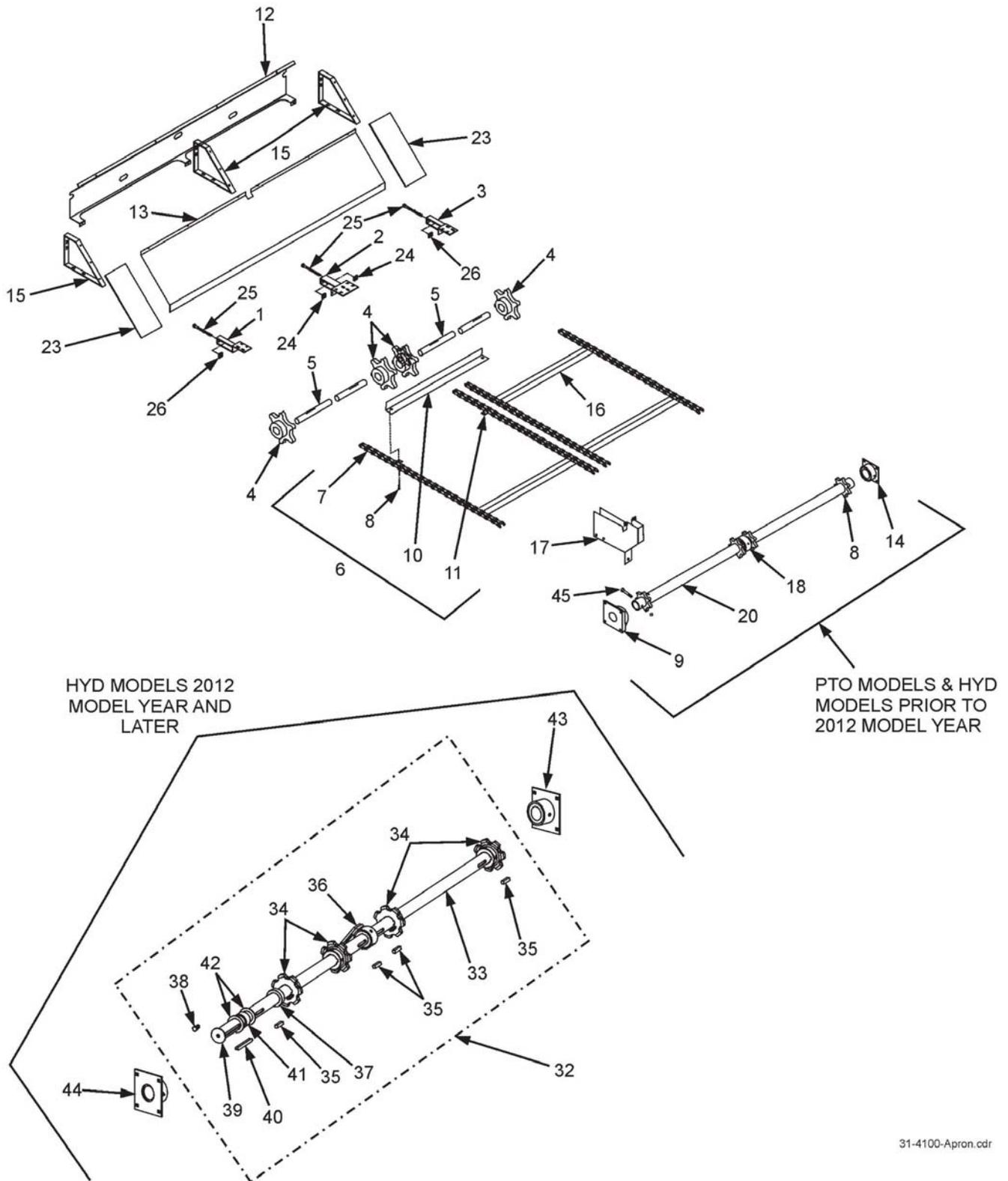
**FIGURE 7. HYDRAULIC DRIVE PRIOR TO 2012 MODEL YEAR**



**FIGURE 8. HYDRAULIC DRIVE 2012 MODEL YEAR AND LATER**

# REPAIR PARTS

## APRON - REAR UNLOAD QUICK DUMP

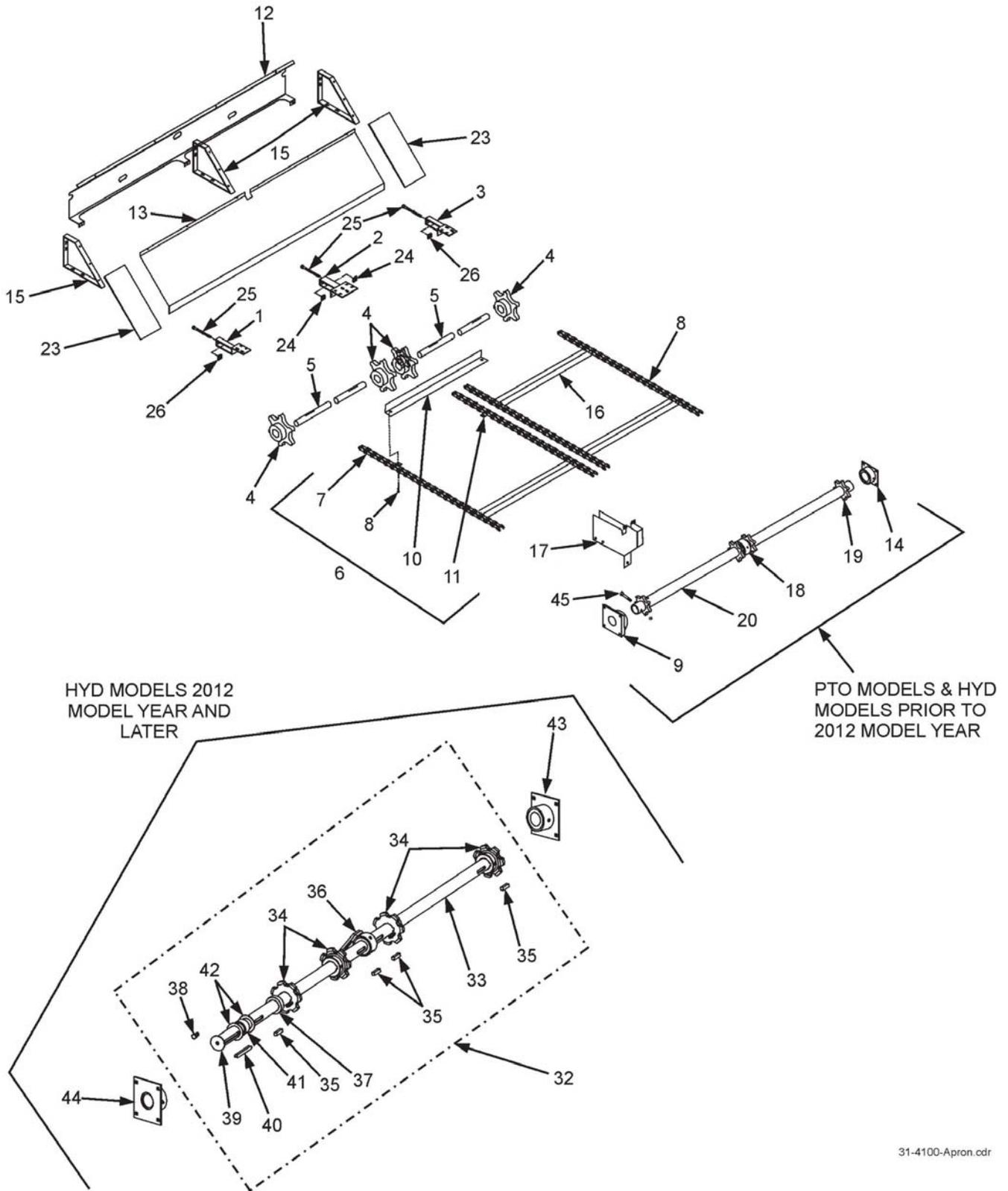


31-4100-Apron.cdr

## APRON - REAR UNLOAD QUICK DUMP

| KEY | PART NO.  | DESCRIPTION  |
|-----|-----------|--|
| 1   | 25-0144   | TIGHTENER BRACKET LH (Prior to SN QD02278)   |
|     | 25-0244   | TIGHTENER BRACKET LH (SN QD02278 & Later)  |
| 2   | 25-0145   | TIGHTENER BRACKET CENTER (Prior to SN QD02278)   |
|     | 25-0245   | TIGHTENER BRACKET CENTER (SN QD02278 & Later)  |
| 3   | 25-0146   | TIGHTENER BRACKET RH (Prior to SN QD02278)   |
|     | 25-0246   | TIGHTENER BRACKET RH (SN QD02278 & Later)  |
| 4   | 10-0054   | SPROCKET #67-6   |
|     | 13-0015   | BRONZE BUSHING   |
| 5   | 23-0043   | IDLER SHAFT  |
| 6   | 11-0081   | CHAIN ASSY 14' FLOOR, 667H   |
|     | 11-0082   | CHAIN ASSY 16' FLOOR, 667H   |
|     | 11-0083   | CHAIN ASSY 18' FLOOR, 667H   |
|     | 11-0114   | CHAIN ASSY 20' FLOOR, 667H   |
|     | 11-0084   | CHAIN ASSY 16' FLOOR, 667X   |
|     | 11-0085   | CHAIN ASSY 18' FLOOR, 667X   |
|     | 11-0098   | CHAIN ASSY 20' FLOOR, 667X   |
|     | 11-0129   | CHAIN ASSY 22' FLOOR, 667X   |
|     | 11-0127   | CHAIN ASSY 24' FLOOR, 667X   |
| 7   | 11-0068-3 | PINTLE CHAIN LINK-D667H  |
|     | 11-0008-1 | PINTLE CHAIN LINK-D667X  |
| 8   | 23-0007-3 | SPROCKET, MAIN ROLLER (ALL PTO MODELS & HYD MODELS - PRIOR TO QD12201)                           |
| 9   | 14-0009   | MAIN ROLLER BEARING ASSY W/HOLE (ALL PTO MODELS & HYD MODELS - PRIOR TO QD12201)                 |
|     | 14-0043-1 | BEARING (ALL PTO MODELS & HYD MODELS - PRIOR TO QD12201)   |
| 10  | 11-0080   | SLAT   |
| 11  | 11-0068-2 | D667H ATTACHMENT LINK W/PINS & COTTER KEYS   |
|     | 11-0008-3 | D667X ATTACHMENT LINK W/PINS & COTTER KEYS   |
| 12  | 24-0127   | FRONT SHIELD   |
| 13  | 24-0090   | DEFLECTOR SHIELD   |
| 14  | 14-0009-T | MAIN ROLLER BEARING ASSY W/O HOLE (ALL PTO MODELS & HYD MODELS - PRIOR TO QD12201)               |
|     | 14-0043-1 | BEARING (ALL PTO MODELS & HYD MODELS - PRIOR TO QD12201)   |
| 15  | 25-0141   | BRKT, DEFLECTOR SHIELD SUPPORT   |
| 16  | 11-0081-2 | W/ATTACHMENT LINKS - 667H  |
|     | 11-0084-2 | W/ATTACHMENT LINKS - 667X  |
|     | 11-0008-2 | RIVET, 3/8" x 7/8"   |
| 17  | 25-0205   | BEARING SUPPORT BRACKET  |
| 18  | 14-0035   | MAIN DRIVE SHAFT REPLACEABLE SPLIT BEARING ASSY (ALL PTO MODELS & HYD MODELS - PRIOR TO QD12201) |
|     | 14-0035-1 | BEARING SPLIT (ALL PTO MODELS & HYD MODELS - PRIOR TO QD12201)                                   |

# APRON - REAR UNLOAD QUICK DUMP (CONT'D)

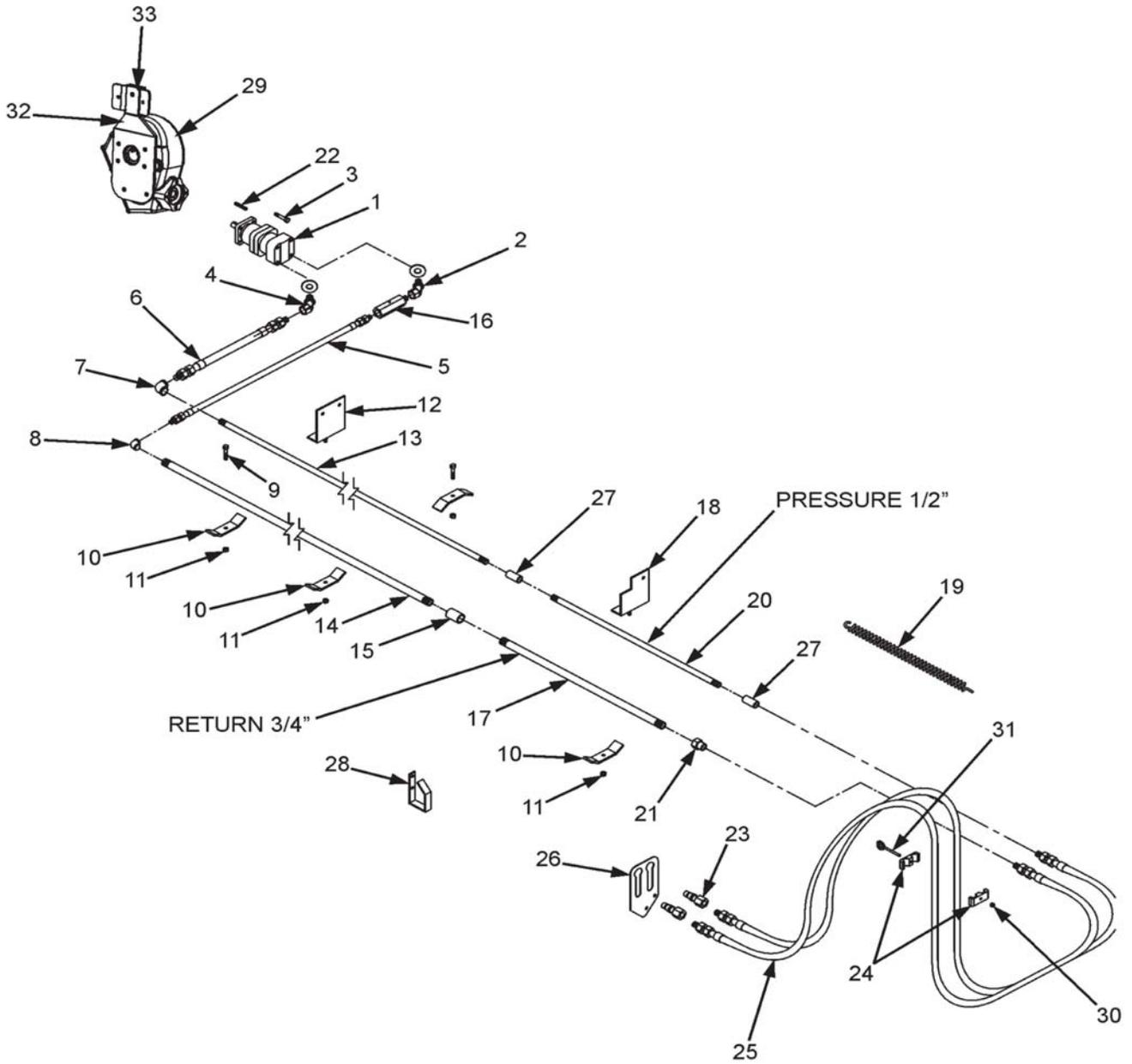


31-4100-Apron.cdr

## APRON - REAR UNLOAD QUICK DUMP

| KEY | PART NO.       | DESCRIPTION  |
|-----|----------------|--|
| 20  | 23-0076        | PTO MAIN ROLLER COMPLETE W/STUB SHAFT  |
|     | 23-0052-HD-HYD | HYDRAULIC PRE '96 MAIN ROLLER COMPLETE W/O STUB SHAFT (PRIOR TO 1996 MODELS)                                   |
|     | 23-0057-1      | HYDRAULIC DRIVE STUB SHAFT   |
|     | 23-0062        | HYDRAULIC MAIN ROLLER COMPLETE W/O STUB SHAFT (1996 MODELS THRU 2011 MODEL YEAR)                               |
|     | 23-0076-1      | PTO DRIVE STUB SHAFT   |
|     |                | See Page 38 FOR STUB SHAFT ONLY  |
| 23  | 49-0006        | FRONT DEFLECTOR SHIELD BELTING   |
| 24  | 25-0147        | TIGHTENER NUT, CENTER  |
| 25  | 830-5013-7Z    | TIGHTENER BOLT   |
| 26  | 25-0152        | TIGHTENER NUT, OUTER   |
| 32  | 23-0161        | HYD SOLID MAIN DRIVE SHAFT ASSEMBLY W/CNTR BRG, SPROCKETS, COLLAR, SPACER, KEYS & WASHERS (SN QD12201 & LATER) |
| 33  | 23-0161-1      | REAR MAIN DRIVE SHAFT (2012 MODEL YEAR & LATER)  |
| 34  | 10-0094-F      | FRONT MAIN DRIVE SPROCKET  |
| 35  | 35-0008        | 1/2" x 1/2" x 2" 1045 SQUARE KEY   |
| 36  | 14-0054        | CENTER MAIN DRIVE BEARING ASSEMBLY   |
| 37  | 921-0008       | 2" ID STEEL COLLAR   |
| 38  | 851-5013-1Z    | 1"-13 x 1" BOLT  |
| 39  | 601-0001-65    | DRIVE SHAFT CAP WASHER 10GA  |
| 40  | 135-5050-5-1   | 1/2" x 1/2" x 5" KEY ROUNDED   |
| 41  | 43-0025        | DRIVE PLATE SPACER   |
| 42  | 808-2-3-10     | 2" ID x 3" OD 10GA MACHINE BUSHING   |
| 43  | 14-0053        | DRIVE SHAFT BEARING ASSEMBLY   |
|     | 14-0053-2      | 2" x 3" x 1-15/16" BEARING ONLY  |
| 44  | 14-0056        | DRIVE SHAFT BEARING ASSEMBLY W/THRU HOLE   |
|     | 14-0053-2      | 2" x 3" x 1-15/16" BEARING ONLY  |
| 45  | 33-0017        | 5/8" x 3-1/2" GRADE 5 BOLT WITH LOCK NUT ASSEMBLY  |

# 3100-4100 SERIES HYDRAULIC REAR UNLOAD COMPONENTS

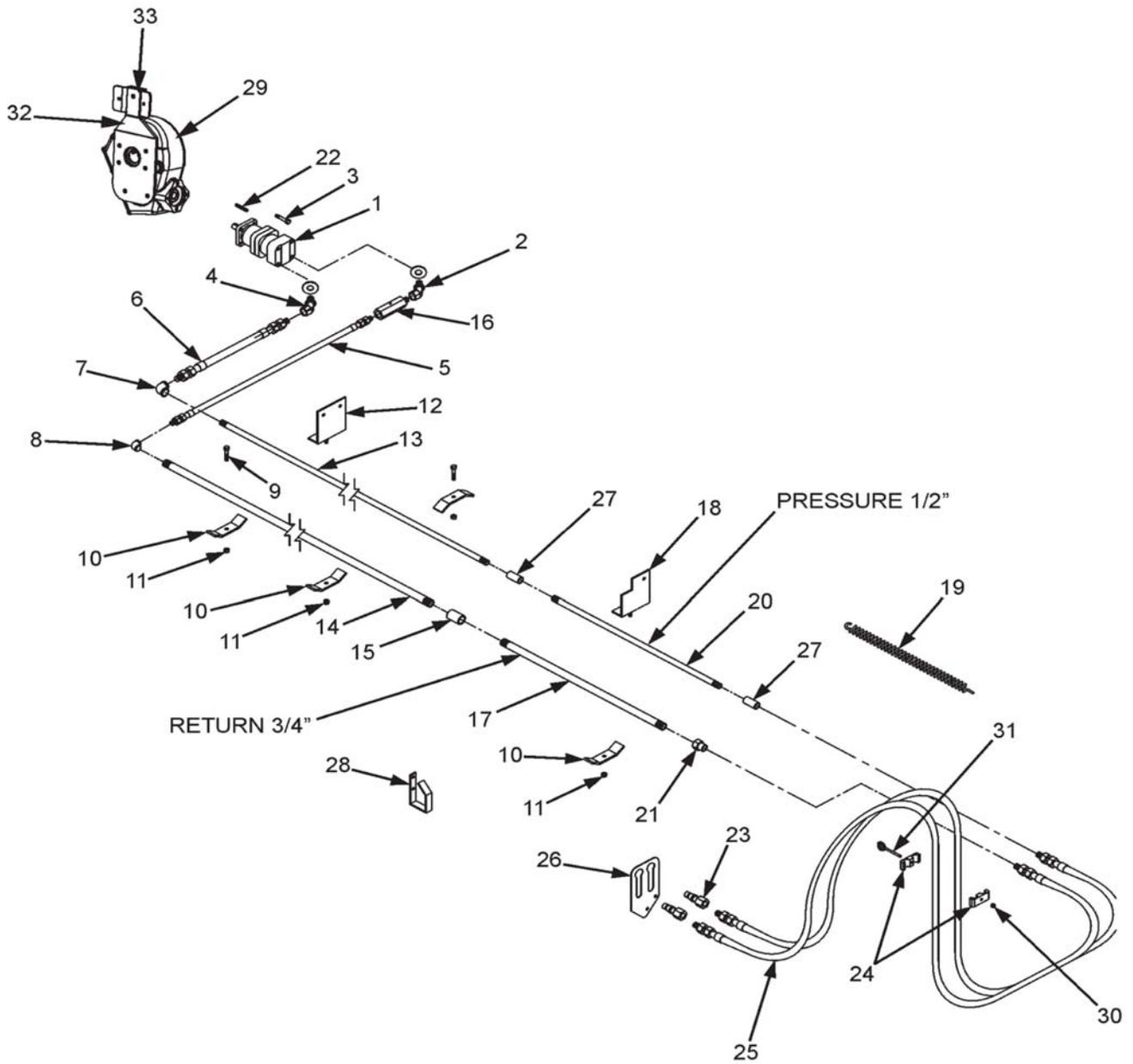


Truck Mounts: Pressure & Return Lines are Both 3/4"

## 3100-4100 SERIES HYDRAULIC REAR UNLOAD COMPONENTS

| KEY | PART NO.           | QTY. | DESCRIPTION  |
|-----|--------------------|------|--|
| 1   | 55-0099            | 1    | HYDRAULIC MOTOR FOR 18' BOXES & UNDER (PRIOR TO SN QD12201)  |
|     | 55-0099-HD         | 1    | HYDRAULIC MOTOR FOR 20' BOXES & LONGER (PRIOR TO SN QD12201) |
|     | 155-2000-11.9-1    | 1    | HYDRAULIC MOTOR (SN QD12201 & LATER)                         |
|     | 55-0016-HD-HP-SEAL | 1    | MOTOR SEAL KIT (PRIOR TO SN QD03240)                         |
|     | 55-0099-KIT        | 1    | MOTOR SEAL KIT (SN QD03240 THROUGH SN QD12200)               |
|     | 55-0088-KIT        | 1    | MOTOR SEAL KIT (SN QD12201 & LATER)                          |
| 2   | 155-6902-10-12     | 1    | 3/4" 45 NPSM SWIVEL ORB                                      |
| 3   | 831-3816-1.25      | 4    | 3/8"-16 x 1-1/4" AHCS GR5                                    |
| 4   | 55-0059            | 1    | 1/2" 45 NPSM SWIVEL ORB (PRIOR TO SN QD12201)                |
|     | 55-0085            | 1    | 1/2" STRAIGHT FITTING ORB (SN QD12201 AND LATER)             |
|     | 155-6902-10-12     | 1    | 3/4" 45 NPSM SWIVEL ORB (TRUCK MOUNT MODELS)                 |
| 5   | 55-0029            | 1    | 3/4" HOSE ASSEMBLY X 36" LONG (PRIOR TO SN QD12201)          |
|     | 55-0047            | 1    | 3/4" HOSE ASSEMBLY X 42" LONG (SN QD12201 & LATER)           |
| 6   | 55-0028            | 1    | 1/2" HOSE ASSEMBLY X 36" LONG (PRIOR TO SN QD12201)          |
|     | 55-0064            | 1    | 1/2" HOSE ASSEMBLY X 42" LONG (SN QD12201 & LATER)           |
|     | 55-0047            | 1    | 3/4" HOSE ASSEMBLY X 42" LONG (TRUCK MOUNT MODELS)           |
| 7   | 55-0010            | 1    | 1/2" 90 BM ELBOW   |
| 8   | 55-0027            | 1    | 3/4" 90 BM ELBOW   |
| 9   | 851-3816-1.5Z      | 2    | 3/8"-16 x 1-1/2" GR 5 MB                                     |
| 10  | 25-0210-4          | AR   | HYD PIPE HOLDER CLAMP  |
| 11  | 815-3816-Z         | 4    | 3/8"-16 NYLON INSERT LOCK NUT                                |
| 12  | 25-0210-5          | 2    | BOX HYD PIPE HOLDER  |
| 13  | 55-0063            | 1    | 14' FLOOR 1/2" x 159" HYD PIPE                               |
|     | 55-0025            | 1    | 16' FLOOR 1/2" x 183" HYD PIPE                               |
|     | 55-0023            | 1    | 18' FLOOR 1/2" x 207" HYD PIPE                               |
|     | 55-0021            | 1    | 20' FLOOR & LONGER 1/2" x 231" HYD PIPE                      |
| 14  | 55-0062            | 1    | 14' FLOOR 3/4" x 161" HYD PIPE                               |
|     | 55-0024            | 1    | 16' FLOOR 3/4" x 185" HYD PIPE                               |
|     | 55-0022            | 1    | 18' FLOOR 3/4" x 209" HYD PIPE                               |
|     | 55-0020            | 1    | 20' FLOOR & LONGER 3/4" x 233" HYD PIPE                      |
| 15  | 55-0030            | 1    | 3/4" BM COUPLER FOR 22' & LONGER                             |
| 16  | 55-0007-B          | 1    | 3/4" CHECK VALVE   |
| 17  | 55-0073            | 1    | 22' FLOOR 3/4" x 24" EXT PIPE                                |
|     | 55-0070            | 2    | 24' FLOOR 3/4" x 48" TRUCK MT EXT PIPE                       |
| 18  | 25-0210-2          | 1    | UNIT HYD PIPE HOLDER   |
| 19  | 29-0029            | 1    | HYD HOSE TENDER SPRING KIT W/SLEEVE & HARDWARE               |
| 20  | 55-0074            | 1    | 22' FLOOR 1/2" x 24" EXT PIPE                                |
| 21  | 55-0039            | 1    | 1/2" x 3/4" FEMALE REDUCER                                   |
| 22  | 155-0808M-32M-1    | 1    | 8MM x 8MM x 32MM KEY   |
| 23  | 55-0013            | 2    | PIONEER COUPLER  |
| 24  | 55-0033            | 1    | CLAMP ASSEMBLY (USED WITH COIL SPRING ONLY)                  |
| 25  | 55-0034            | 2    | 1/2" 2-WIRE x 132" MALE HOSE ASSY                            |
| 26  | 25-0249-1          | 1    | HYD HOSE HOLDER BRACKET                                      |
| 27  | 155-5000-08-08     | 2    | 1/2" BM COUPLING   |
| 28  | 25-0209            | 1    | HOLDER FOR HYD HOSE ENDS                                     |

# 3100-4100 SERIES HYDRAULIC REAR UNLOAD COMPONENTS (CONT'D)



3100-4100-HydRearUnloadComponents.cdr

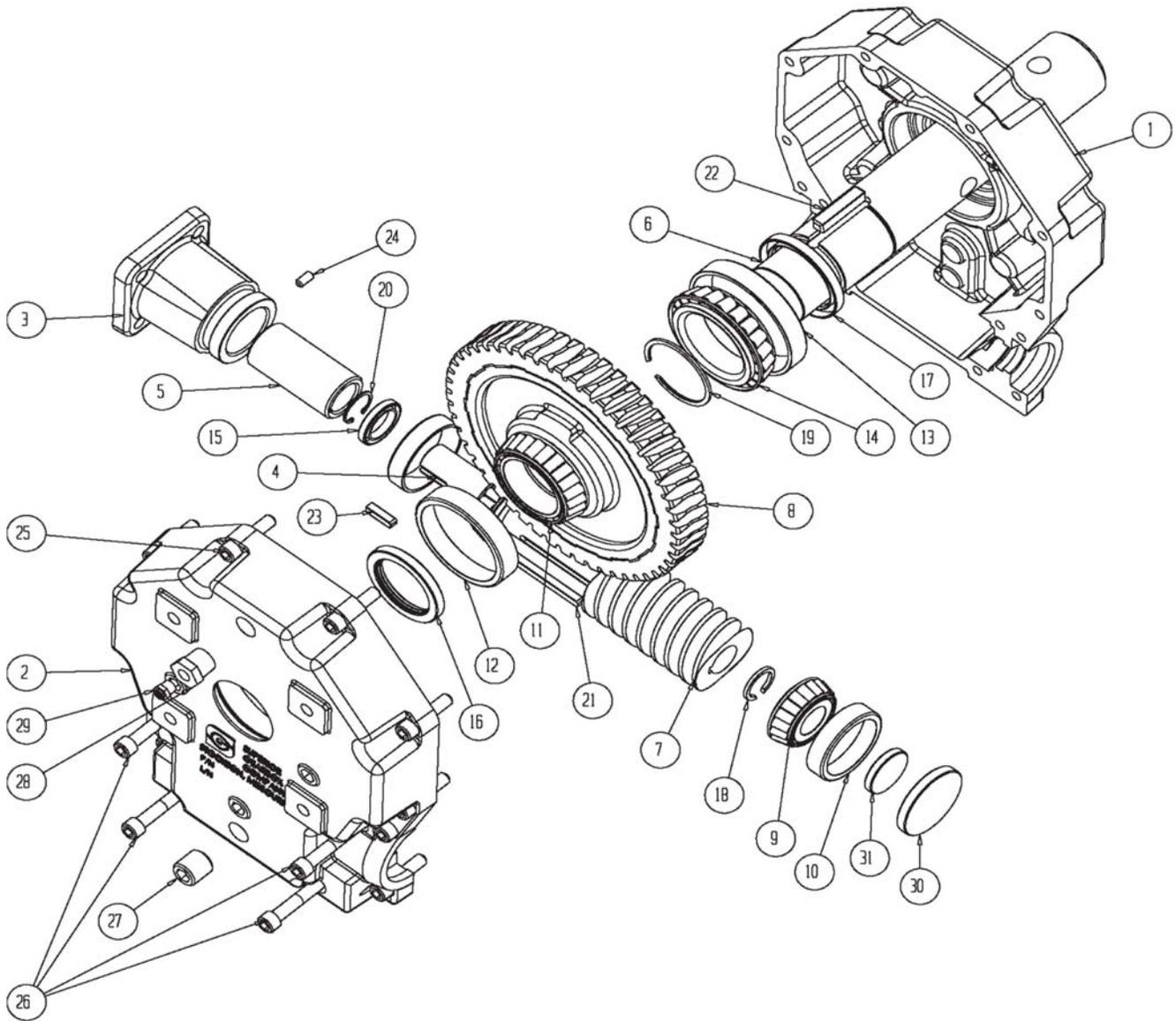
## 3100-4100 SERIES HYDRAULIC REAR UNLOAD COMPONENTS

| KEY | PART NO.     | QTY. | DESCRIPTION  |
|-----|--------------|------|--|
| 29  | 19-0026      | 1    | W-260 GEARBOX W/OUTPUT SHAFT(PRIOR TO SN QD08201, AND SN QD10208 AND LATER)(HYD MODELS PRIOR TO SN QD08201, AND SN QD10208 THRU QD12201) |
|     | 19-0126      | 1    | I-260 GEARBOX W/O OUTPUT SHAFT (SN QD08201 THRU QD10207)   |
|     | 19-0126-8    | 1    | I-260 OUTPUT SHAFT (SN QD08201 THRU QD10207)   |
|     | 19-0201      | 1    | RT250 GEARBOX (SN QD12201 AND LATER)   |
| 30  | 810-3118-Z   | 1    | 5/16" SPIN LOCK NUT (USED WITH COIL SPRING ONLY)   |
| 31  | 811-3118-2Z  | 1    | 5/16" EYEBOLT (USED WITH COIL SPRING ONLY)   |
| 32  | 100-9990-195 | 1    | RT250 GEARBOX TORQUE ARM   |
| 33  | 25-0416      | 1    | TORQUE ARM HOLDOWN BRACKET   |

# 19-0026 HYDRAULIC REAR GEARBOX

3100 & 4100 SERIES

(USED PRIOR TO SERIAL NUMBER QD08201, AND SERIAL NUMBER QD10208 THRU 2011 MODEL YEAR)



USE #85W140 Gear Lube Only.  
DO NOT use grease for lubricant.

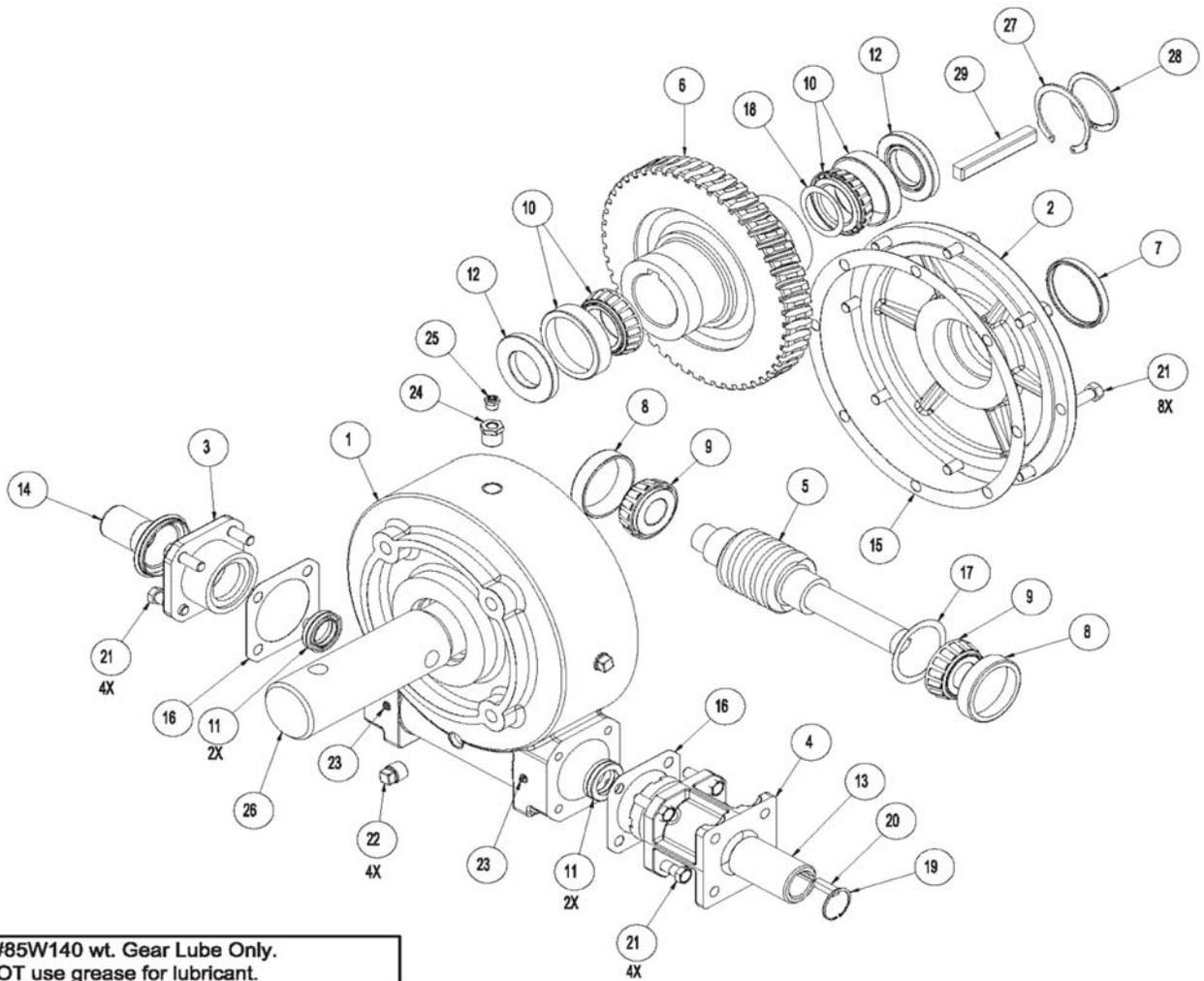
# 19-0026 HYDRAULIC REAR GEARBOX

3100 & 4100 SERIES

(USED PRIOR TO SERIAL NUMBER QD08201, AND SERIAL NUMBER QD10208 THRU  
2011 MODEL YEAR)

| KEY | PART NO.    | QTY. | DESCRIPTION                          |
|-----|-------------|------|--------------------------------------|
| 1   | 19-0026-3   | 1    | CASTING, TAPPED HOLES W260           |
| 2   | 19-0026-4   | 1    | CASTING, THRU HOLES W260             |
| 3   | 19-0025-2   | 1    | ADAPTER, HYD 4-BOLT                  |
| 4   | 19-0025-1   | 1    | INPUT SHAFT W260                     |
| 5   | 19-0025-3   | 1    | HYDRAULIC SLEEVE COUPLER             |
| 6   | 19-0026-1   | 1    | OUTPUT SHAFT                         |
| 7   | 19-0025-7   | 1    | WORM 2 LEAD RH                       |
| 8   | 19-0025-8   | 1    | WORM GEAR RH 25:1                    |
| 9   | 19-0002-3   | 2    | BEARING CONE 1" I.D.                 |
| 10  | 19-0002-4   | 2    | BEARING CUP                          |
| 11  | 19-0004-7   | 1    | BEARING CONE 2" I.D.                 |
| 12  | 19-0024-8   | 1    | BEARING CUP                          |
| 13  | 19-0024-23  | 1    | BEARING CUP                          |
| 14  | 19-0024-24  | 1    | BEARING CONE 2.25" I.D.              |
| 15  | 19-0024-12  | 1    | SEAL 1" SHAFT                        |
| 16  | 19-0024-13  | 1    | SEAL 2" SHAFT                        |
| 17  | 19-0024-22  | 1    | SEAL 2.25" SHAFT                     |
| 18  | 19-0024-11  | 1    | RETAINING RING 1" SHAFT              |
| 19  | 19-0024-25  | 1    | RETAINING RING 2.25" SHAFT           |
| 20  | 19-0025-4   | 1    | RETAINING RING 1" BORE               |
| 21  | 19-0024-14  | 1    | KEY 1/4" x 1/4" x 2.73"              |
| 22  | 19-0024-15  | 1    | KEY 3/8" x 3/8" x 1.80"              |
| 23  | 19-0025-6   | 1    | KEY 1/4" x 1/4" x 1.46" HEAT TREATED |
| 24  | 827-2528-.5 | 1    | SET SCREW 1/4-28 x 1/2"              |
| 25  | 19-0024-20  | 10   | SH CAP SCREW 3/8" x 1-1/2"           |
| 26  | 19-0016-11  | 4    | SH CAP SCREW 3/8" x 2.25"            |
| 27  | 19-0016-5   | 9    | DRAIN PLUG 1/2"-14 NPT               |
| 28  | 19-0023-2   | 8    | BUSHING, 1/2" NPT TO 1/8" NPT        |
| 29  | 19-0002-17  | 1    | VENT 5 PSI                           |
| 30  | 19-0024-19  | 1    | SEAL, END PLUG - INPUT SHAFT         |
| 31  | 19-0024-28  | 1    | SEAL, END CAP RUBBER COVER           |

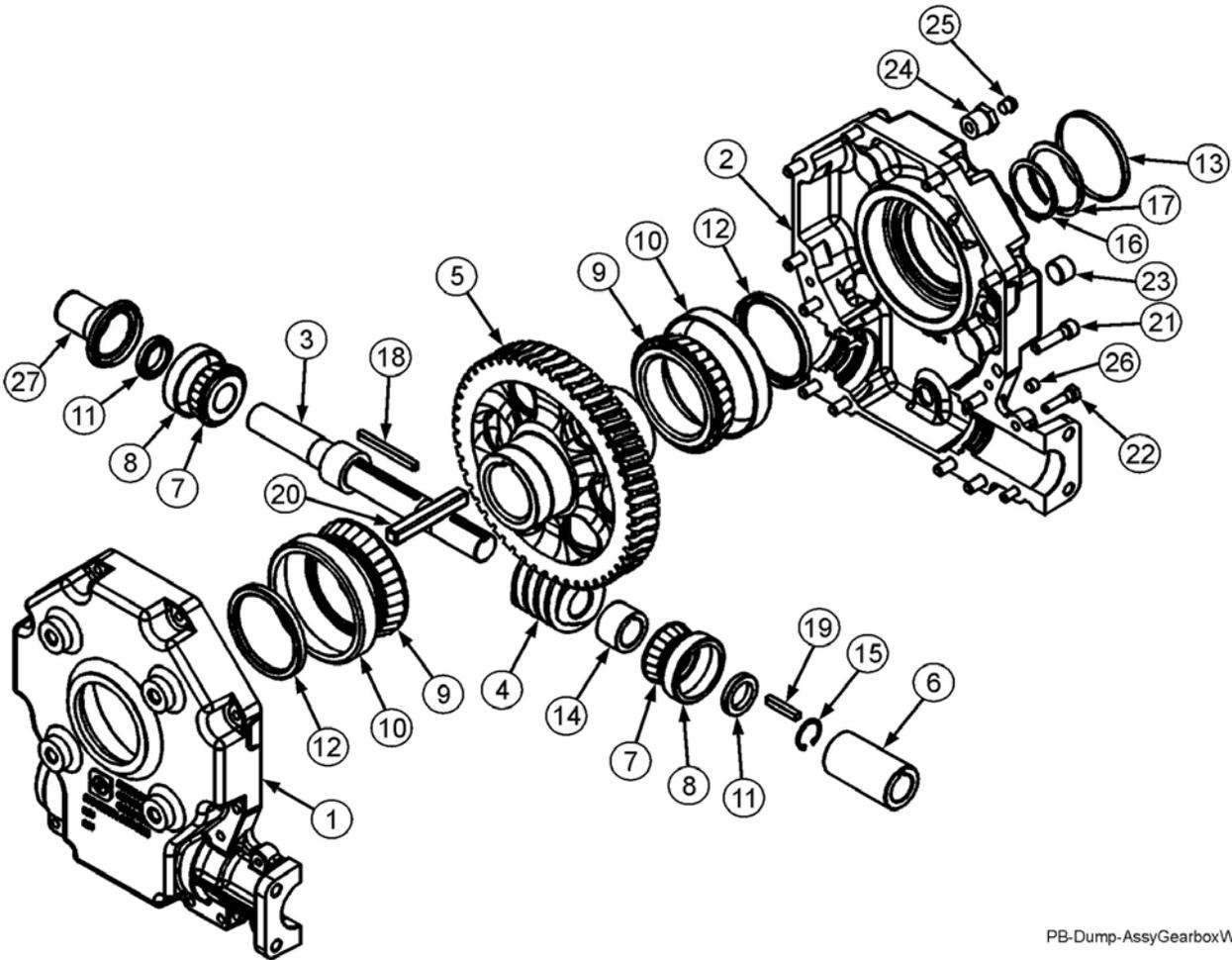
**19-0126 REAR GEARBOX  
3100 & 4100 SERIES  
(USED SN QD08201 THRU QD10207)**



**19-0126 REAR GEARBOX**  
**3100 & 4100 SERIES**  
**(USED SN QD08201 THRU QD10208)**

| KEY | PART NO.    | QTY. | DESCRIPTION                         |
|-----|-------------|------|-------------------------------------|
| 0   | 19-0126     | 1    | I-260 REAR GEARBOX W/O OUTPUT SHAFT |
| 1   | 19-0157-1   | 1    | HOUSING                             |
| 2   | 19-0157-2   | 1    | COVER                               |
| 3   | 19-0126-1   | 1    | ENDCAP                              |
| 4   | 19-0126-2   | 1    | HYDRAULIC ADAPTER                   |
| 5   | 19-0126-3   | 1    | INPUT SHAFT / WORM ASSY.            |
| 6   | 19-0157-6   | 1    | GEAR                                |
| 7   | 19-0157-7   | 1    | COVER CAP                           |
| 8   | 19-0157-8   | 2    | INPUT BEARING CUP                   |
| 9   | 19-0157-9   | 2    | INPUT BEARING CONE                  |
| 10  | 19-0157-10  | 2    | OUTPUT BEARING CUP/CONE             |
| 11  | 19-0057-13  | 4    | INPUT SHAFT SEAL                    |
| 12  | 19-0157-11  | 1    | OUTPUT SEAL                         |
| 13  | 19-0126-4   | 1    | COUPLER                             |
| 14  | 19-0126-5   | 1    | SHAFT GUARD                         |
| 15  | 19-0157-12  | 1    | COVER GASKET                        |
| 16  | 19-0157-13  | 2    | ENDCAP GASKET                       |
| 17  | 19-0057-19  | AR   | INPUT SHIM                          |
| 18  | 19-0157-14  | AR   | OUTPUT SHIM                         |
| 19  | 19-0126-6   | 1    | RETAINING RING                      |
| 20  | 19-0126-7   | 1    | KEY                                 |
| 21  | 851-3816-1Z | 16   | 3/8-16 x 1" MACHINE BOLT GRADE 5    |
| 22  | 19-0057-22  | 4    | PLUG, 3/8-18 NPT                    |
| 23  | 19-0157-15  | 2    | PLUG, 1/8-27 NPT                    |
| 24  | 19-0057-23  | 1    | BUSHING 3/8-18/1/8-27               |
| 25  | 19-0057-24  | 1    | PLUG, 5PSI BREATHER                 |
| 26  | 19-0126-8   | 1    | OUTPUT SHAFT                        |
| 27  | 19-0157-16  | 1    | OUTPUT SHAFT RETAINING RING         |
| 28  | 19-0157-17  | 1    | HOLLOW BORE RETAINING RING          |
| 29  | 19-0126-9   | 1    | KEY                                 |

**19-0226**  
**3100 & 4100 SERIES**  
**REPLACES THE 19-0026 & 19-0126 GEARBOXES**

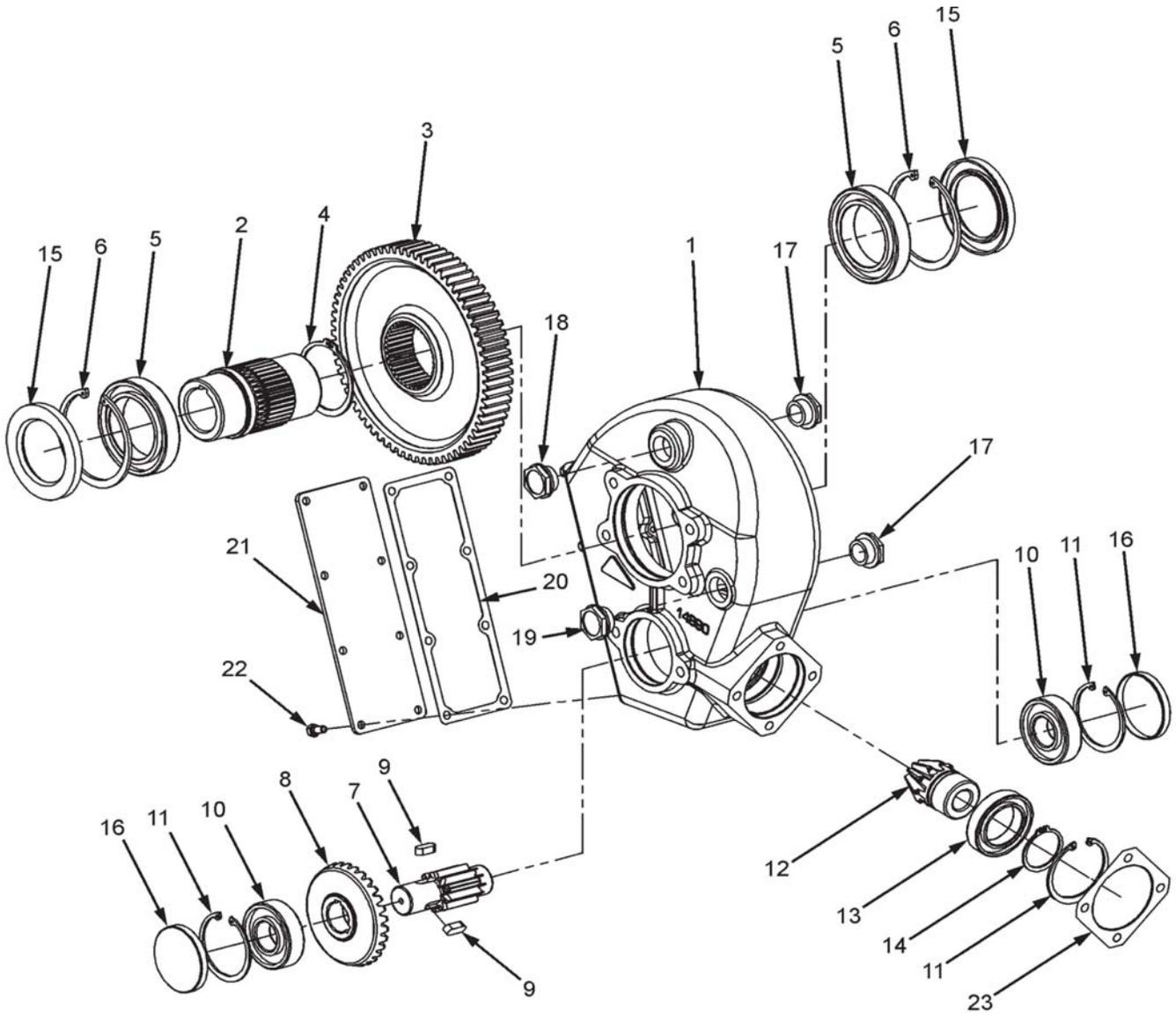


PB-Dump-AssyGearboxW26A.cdr

**19-0226**  
**3100 & 4100 SERIES**  
**REPLACES THE 19-0026 & 19-0126 GEARBOXES**

| KEY | PART NO.   | QTY. | DESCRIPTION                              |
|-----|------------|------|--|
| 1   | 19-0226-1  | 1    | W26A Housing Machined Tapped Holes       |
| 2   | 19-0226-2  | 1    | W26A Housing Machined Thru Holes         |
| 3   | 19-0226-3  | 1    | Input Shaft W26A                         |
| 4   | 19-0226-4  | 1    | Worm Cut Gear 25:1 RH Bronze             |
| 5   | 19-0226-5  | 1    | Worm Gear 25:1 RH                        |
| 6   | 19-0226-6  | 1    | 1.625" OD Coupler                        |
| 7   | 19-0257-8  | 2    | Bearing Cone 1"                          |
| 8   | 19-0257-9  | 2    | Bearing Cup 2.4409"                      |
| 9   | 19-0257-10 | 2    | Bearing Cone 2.953"                      |
| 10  | 19-0257-11 | 2    | Bearing Cup 4.528"                       |
| 11  | 19-0024-12 | 2    | Seal                                     |
| 12  | 19-0257-4  | 2    | Seal                                     |
| 13  | 19-0257-3  | 1    | Seal End Cap                             |
| 14  | 19-0257-2  | 1    | Spacer                                   |
| 15  | 19-0025-4  | 1    | Retaining Ring, Interior 1" Bore         |
| 16  | 19-0151-12 | 1    | Retaining Ring, Exterior 2" Shaft        |
| 17  | 19-0151-13 | 1    | Retaining Ring, Interior 2.5" Bore       |
| 18  | 19-0024-14 | 1    | 1/4" x 1/4" x 2.73" Key                  |
| 19  | 19-0226-7  | 1    | 1/4" x 1/4" x 1.46" Key                  |
| 20  | 19-0226-8  | 1    | 1/2" x 1/2" x 3-1/2" Key                 |
| 21  | 19-0226-9  | 12   | 3/8-16 x 1-1/2" Socket Head Bolt Grade 8 |
| 22  | 19-0226-10 | 2    | 5/16-18 x 1-1/4" Hex Head Grade 8        |
| 23  | 19-0016-5  | 3    | 1/2-14 NPT Plug                          |
| 24  | 19-0023-2  | 1    | 1/2" NPT x 1/8" NPT Bushing              |
| 25  | 19-0002-17 | 1    | 1/8-17 NPT Vent 5PSI Plug                |
| 26  | 19-0226-11 | 2    | 1/8-27 NPT Plug                          |
| 27  | 19-0226-12 | 1    | I260 Shaft Guard                         |
| NS  | 48-0044    | AR   | EP 85W140 Lube                           |
| NS  | 19-0126-8  | 1    | Output Shaft                             |

**19-0201 REAR GEARBOX**  
**3100 & 4100 SERIES**  
**(USED SN QD12201 & LATER)**



USE ONLY EP 80-90 WT GEAR LUBE OIL

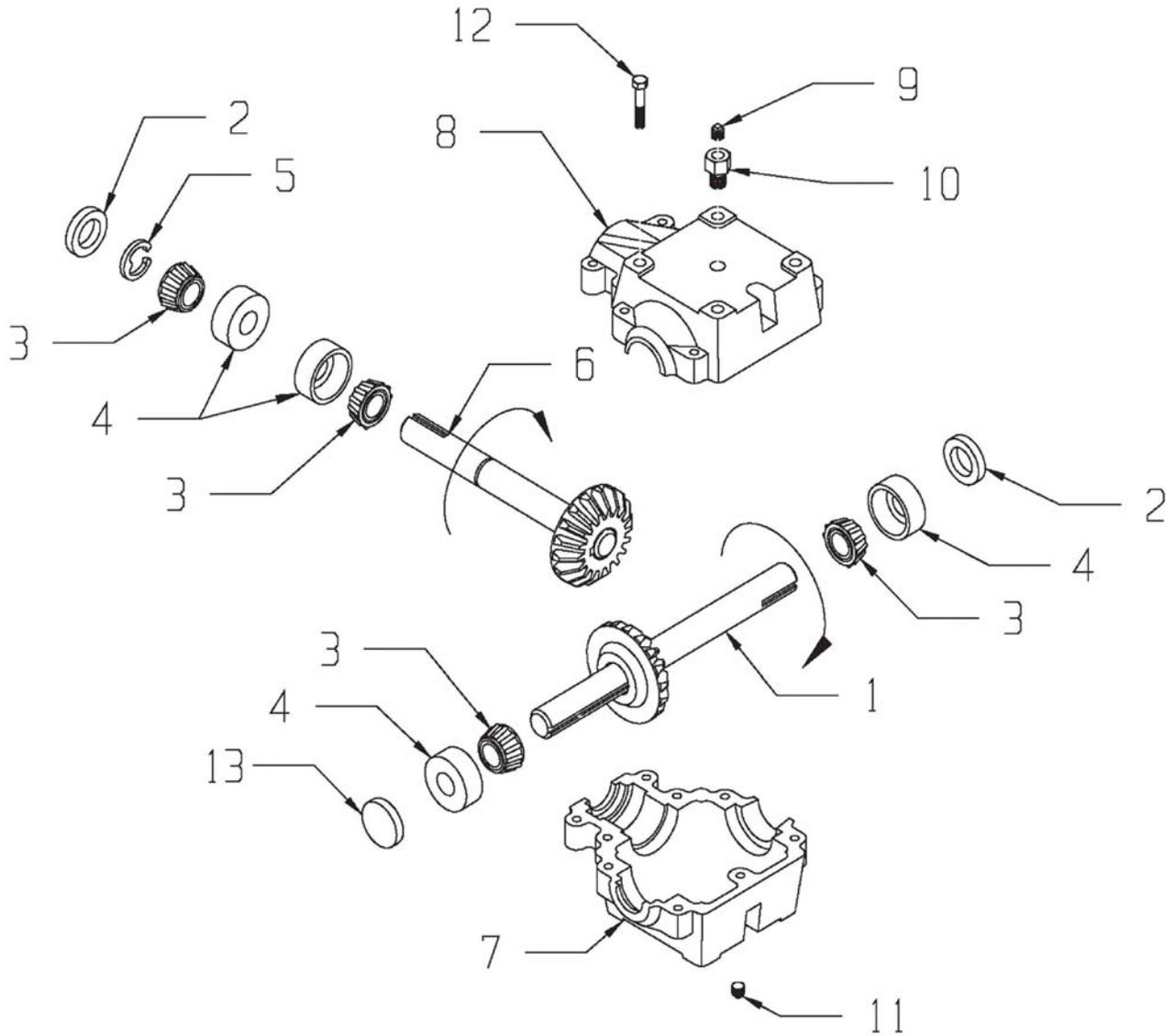
**NOTE:** The seal for the hydraulic motor (Key 23) should be installed dry or with light oil. The hydraulic motor mounting bolts should be torqued to 63 ft-lbs (or 85 N-m).

31-4100-RearGearbox.cdr

**19-0201 REAR GEARBOX**  
**3100 & 4100 SERIES**  
**(USED SN QD12201 & LATER)**

| KEY | PART NO.    | QTY. | DESCRIPTION            |
|-----|-------------|------|------------------------|
| 1   | 19-0201-1   | 1    | HOUSING                |
| 2   | 19-0201-2   | 1    | HUB 2"                 |
| 3   | 19-0201-3   | 1    | GEAR                   |
| 4   | 19-0201-4   | 1    | SNAP RING              |
| 5   | 19-0201-5   | 2    | BEARING                |
| 6   | 19-0201-6   | 2    | SNAP RING              |
| 7   | 19-0201-7   | 1    | PINION                 |
| 8   | 19-0201-8   | 1    | GEAR                   |
| 9   | 19-0201-9   | 2    | KEY                    |
| 10  | 619-0001-15 | 2    | BEARING                |
| 11  | 619-0001-16 | 3    | SNAP RING              |
| 12  | 19-0201-10  | 1    | PINION                 |
| 13  | 619-0012-2  | 1    | BEARING                |
| 14  | 619-0001-19 | 1    | SNAP RING              |
| 15  | 19-0201-11  | 2    | OIL SEAL               |
| 16  | 619-0001-22 | 2    | CAP PLUG               |
| 17  | 19-0201-12  | 2    | FILL PLUG              |
| 18  | 619-0001-20 | 1    | BREATHER PLUG          |
| 19  | 619-0001-21 | 1    | SIGHT PLUG             |
| 20  | 19-0201-13  | 1    | GASKET                 |
| 21  | 19-0201-14  | 1    | COVER                  |
| 22  | 619-0001-27 | 8    | M8 x 16 HEX HEAD SCREW |
| 23  | 619-0001-28 | 1    | 4-HOLE GASKET          |

**19-0044**  
**1:1 RATIO GEARBOX**



Use 80W90 Gear Lube Oil **ONLY**. **DO NOT** USE GREASE FOR LUBRICANT.



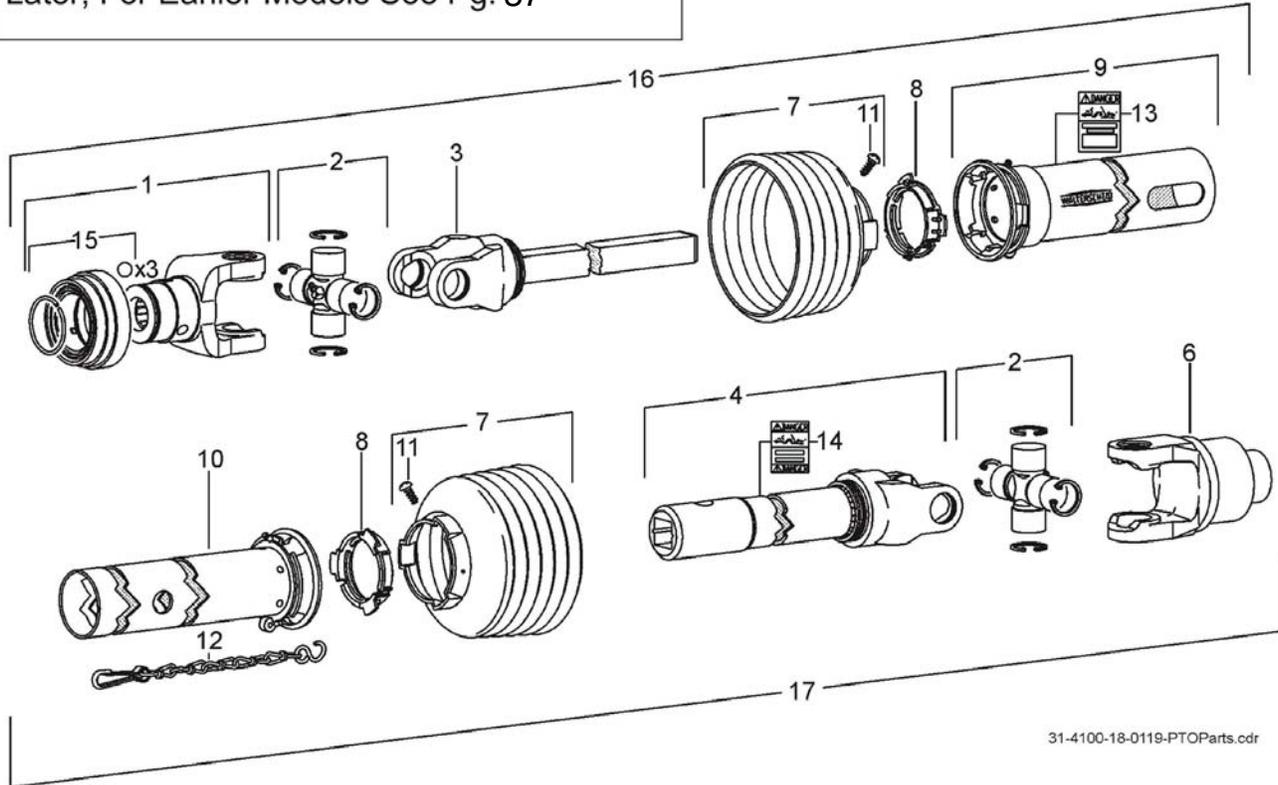
**CAUTION: VERIFY CORRECT DRIVE ROTATION BEFORE OPERATING. FAILURE TO DO SO MAY RESULT IN SEVERE EQUIPMENT DAMAGE.**

**19-0044**  
**1:1 RATIO GEARBOX**

| <b>KEY</b> | <b>PART NO.</b> | <b>DESCRIPTION</b>             |
|------------|-----------------|--------------------------------|
| 0          | 19-0044         | 1:1 RATIO RIGHT ANGLE GEARBOX  |
|            | 80W90           | GEAR LUBE OIL - 28 OZ.         |
| 1          | 19-0044-2       | SHAFT/GEAR ASSEMBLY            |
| 2          | 19-0018-2       | SEAL                           |
| 3          | 19-0018-3       | BEARING CONE                   |
| 4          | 19-0016-3       | BEARING CUP                    |
| 5          | 19-0018-4       | RETAINING RING                 |
| 6          | 19-0044-1       | SHAFT/GEAR ASSEMBLY            |
| 7          | 19-0043-1       | GEARBOX CASTING (TAPPED HOLES) |
| 8          | 19-0041-2       | GEARBOX CASTING (THRU HOLES)   |
| 9          | 19-0002-17      | VENT PLUG, 5 PSI               |
| 10         | 19-0023-2       | BUSHING, 1/2"-14 NPT           |
| 11         | 19-0016-5       | PLUG, 1/2"-14 NPT              |
| 12         | 19-0024-20      | BOLT, 3/8-16 x 1-1/2" SHCS     |
| 13         | 19-0041-3       | GEARBOX END CAP                |

## 18-0119 UNIVERSAL JOINT TELESCOPING ASSEMBLY

Walterscheid PTO used on SN QD05201 and Later, For Earlier Models See Pg. 37

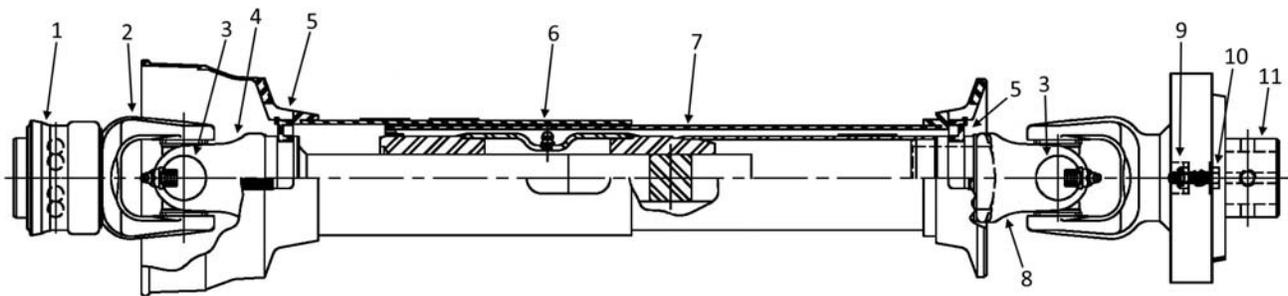


31-4100-18-0119-PTOParts.cdr

| KEY | PART NO.      | QTY. | DESCRIPTION                                |
|-----|---------------|------|--|
|     | 18-0119       | 1    | PTO ASSEMBLY COMPLETE                      |
| 1   | 18-0117-1-1   | 1    | 1 3/8-6 SPLINE YOKE ASGE                   |
| 2   | 18-0117-1-2   | 2    | CROSS AND BEARING KIT                      |
| 3   | 18-0117-1-3   | 1    | INBOARD YOKE AND BAR WELDED ASSY.          |
| 4   | 18-0117-2-1   | 1    | INBOARD YOKE, TUBE AND SLEEVE WELDED ASSY. |
| 6   | 18-0119-1-1   | 1    | OVERRUNNING CLUTCH ASSEMBLY                |
| 7   | 18-0117-1-4   | 2    | 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  | 18-0119-1     | 1    | IMPLEMENT FEMALE HALF SHAFT COMPLETE       |
| NS  | 38-0016       | 1    | 5/16" x 1-7/8" ROLL PIN                    |
| NS  | 827-3816-.5   | 1    | 3/8"-16 x 1/2" SET SCREW                   |

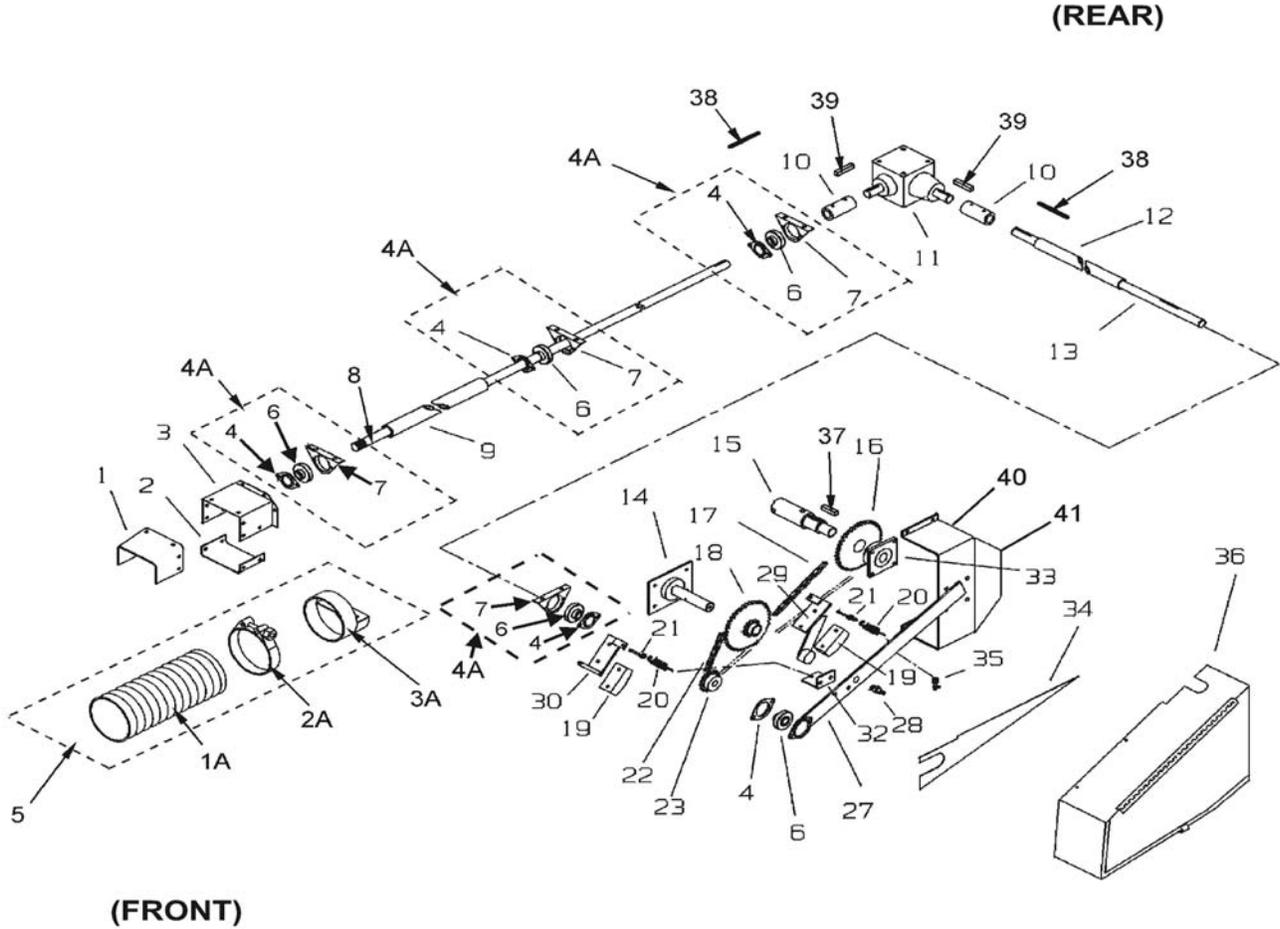
# 18-0019 12R UNIVERSAL JOINT TELESCOPING ASSEMBLY W/GUARD

**Weasler PTO used Prior To SN QD05201.  
For Later Models See Pg. 36**



| KEY | PART NO.      | QTY. | DESCRIPTION                                |
|-----|---------------|------|--|
|     | 18-0019       | 1    | JOINT ASSEMBLY 12R UNIVERSAL #222-19688    |
|     | 18-0017-1     | 1    | JOINT & SHAFT HALF W/GUARD (TRACTOR HALF)  |
|     | 18-0019-4     | 1    | JOINT & TUBE HALF W/GUARD (IMPLEMENT HALF) |
| 1   | 18-0005-16    | 1    | SPRING - LOCK REPAIR KIT                   |
| 2   | 18-0017-7     | 1    | SPRING - LOCK YOKE ASSEMBLY                |
| 3   | 18-0017-9     | 2    | 12R CROSS & BEARING KIT                    |
| 4   | 18-0017-3     | 1    | YOKE & SHAFT                               |
| 5   | 18-0017-10    | 2    | NYLON REPAIR KIT                           |
| 6   | 18-0017-11    | 1    | OUTER GUARD W/BEARING AND RETAINER         |
| 7   | 18-0019-12    | 1    | INNER GUARD W/BEARING & RETAINER           |
| 8   | 18-0017-6     | 1    | YOKE, TUBE & SLIP SLEEVE                   |
| 9   | 814-2520-Z    | 1    | 1/4"-20 ZINC INDENTED LOCKNUT              |
| 10  | 851-2520-1Z   | 1    | 1/4"-20 x 1" MACHINE BOLT                  |
| 11  | NOT AVAILABLE | 1    | BALL SHEAR FREE MOTION ASSEMBLY            |

# DRIVE TRAIN QUICK DUMP REAR UNLOAD



31-4100-DriveTrain.cdr

## DRIVE TRAIN QUICK DUMP REAR UNLOAD

| KEY     | PART NO.                             | DESCRIPTION   |
|---------|--------------------------------------|---|
| 1       | 24-0113-2                            | PTO BELTING 8" X 24-1/2" 2001 (PRIOR TO 2002 SERIAL NUMBERS)  |
| 1A      | 49-0032                              | 6" x 8" HOSE (2002 SERIAL NUMBERS AND LATER)                  |
| 2       | 24-0113-1                            | PTO BELTING 3-1/2" X 11" 2001 (PRIOR TO 2002 SERIAL NUMBERS)  |
| 2A      | 32-0025                              | HOSE CLAMP (2002 SERIAL NUMBERS AND LATER)                    |
| 3       | 24-0105-1                            | PTO SHIELD ASSEMBLY (PRIOR TO 2002 SERIAL NUMBERS)            |
| 3A      | 24-0118-1                            | 2002 PTO SHIELD MOUNT BRACKET (2002 SERIAL NUMBERS AND LATER) |
| 4       | 14-0003-2                            | 1-1/4" TWO BOLT FLANGE  |
|         | 14-0002-3                            | 1-1/4" BEARING W/LOCK COLLAR                                  |
|         | 14-0003-1                            | 1-1/4" PILLOW BLOCK FLANGE                                    |
| 4A      | 14-0032                              | CAST PILLOW BLOCK BEARING AND ZERK                            |
| 5       | 24-0113                              | 2001 DUMPBOX PTO SHIELD ASSY (PRIOR TO 2002 SERIAL NUMBERS)   |
|         | 24-0118                              | 2002 DUMPBOX PTO SHIELD ASSY (2002 SERIAL NUMBERS AND LATER)  |
| 6       | 14-0002-3                            | 1-1/4" BEARING W/LOCK COLLAR                                  |
| 7       | 14-0003-1                            | 1-1/4" PILLOW BLOCK FLANGE                                    |
| 8       | 23-0077                              | 2001 12' MAIN DRIVE SHAFT 122-1/2"                            |
|         | 23-0067                              | 94-'00 14' MAIN DRIVE SHAFT 142-3/4"                          |
|         | 23-0075                              | 2001 14' MAIN DRIVE SHAFT 146-1/2"                            |
|         | 23-0036                              | PRE '94 16' & 24' MAIN DRIVE SHAFT 170-1/2"                   |
|         | 23-0053                              | 94-'00 16' & 24' MAIN DRIVE SHAFT 166-3/4"                    |
|         | 23-0072                              | 2001 16'/24' MAIN DRIVE SHAFT 170-1/2"                        |
|         | 23-0035                              | PRE '94 18'/22' MAIN DRIVE SHAFT 194-1/2"                     |
|         | 23-0054                              | 94-'00 18' MAIN DRIVE SHAFT 190-3/4"                          |
|         | 23-0073                              | 2001 18'/22' MAIN DRIVE SHAFT 194-1/2"                        |
|         | 23-0042                              | PRE '94 20' MAIN DRIVE SHAFT 218-1/2"                         |
| 23-0058 | 94-'00 22' MAIN DRIVE SHAFT 238-3/4" |   |

| KEY                    | PART NO.     | DESCRIPTION   |
|------------------------|--------------|---|
| C<br>O<br>N<br>T'<br>D | 23-0055      | 94-'00 20' MAIN DRIVE SHAFT 214-3/4"                    |
|                        | 23-0074      | 2001 20' MAIN DRIVE SHAFT 218-1/2"                      |
|                        | 23-0039      | 22' MAIN DRIVE SHAFT EXTENSION 48"                      |
|                        | 23-0038      | 24' MAIN DRIVE SHAFT EXTENSION 96"                      |
| 9                      | 31-0011      | PVC PIPE GUARD 71-1/2"                                  |
| 10                     | 37-0007      | SHAFT COUPLER   |
| 11                     | 19-0044      | RIGHT ANGLE GEARBOX                                     |
| 12                     | 31-0009      | PVC PIPE GUARD 30"                                      |
| 13                     | 23-0037      | CROSS DRIVE SHAFT 42-3/8"                               |
| 14                     | 23-0041      | IDLER SHAFT WELDMENT                                    |
| 15                     | 23-0052-2    | PTO OUTPUT SHAFT 2-3/8" DIAMETER (PRIOR TO 1994)        |
|                        | 23-0052-2-HD | PTO OUTPUT SHAFT 2-1/8" DIAMETER (1994-2001) (OPTIONAL) |
|                        | 23-0076-1    | PTO OUTPUT SHAFT 2-1/4" DIAMETER (2002 AND LATER)       |
| 16                     | 910-0003     | 80B45 SPROCKET  |
| 17                     | 11-0115      | 80-61 ROLLER CHAIN                                      |
|                        | 911-0004-HD  | 80HD-62 ROLLER CHAIN                                    |
| 18                     | 10-0065      | SPROCKET WELDMENT 80A 12/60A48                          |
| 19                     | 901-3618-6   | WOOD TIGHTENER BLOCK                                    |
| 20                     | 929-3601     | SPRING  |
| 21                     | 933-3804     | EYE BOLT  |
| 22                     | 11-0041      | 60-65 ROLLER CHAIN                                      |
| 23                     | 10-0062      | 60B15 SPROCKET  |
| 27                     | 25-0176      | SUPPORT ARM   |
| 28                     | 100-9990-22  | IDLER SHAFT BOLT W/ZERK                                 |
| 29                     | 25-0196-3    | IDLER TIGHTENER WELDMENT                                |
| 30                     | 25-0195-3    | DRIVE TIGHTENER WELDMENT                                |
| 32                     | 25-0194      | SPRING TIGHTENER ANGLE                                  |
| 33                     | 914-3602     | FOUR BOLT FLANGE BEARING 1-1/2"                         |
| 34                     | 24-0106-4    | REAR SHIELD FRAME                                       |
| 35                     | 25-0196-4    | TIGHTENER CATCH   |
| 36                     | 24-0106      | CLUSTER SHIELD (RED OR BLACK)                           |
|                        | 24-0106-7    | CLUSTER SHIELD DOOR W/HINGE (RED OR BLACK)              |
| 37                     | 35-0008      | 1/2" x 1/2" x 2" KEY                                    |
| 38                     | 35-0014      | 1/4" x 1/4" x 4-1/2" KEY                                |
| 39                     | 35-0021      | 1/4" x 1/4" x 1-3/4" KEY                                |
| 40                     | 25-0177      | MAIN ROLLER SUPPORT BRACKET                             |
| 41                     | 24-0106-8    | CLUSTER DOOR END CAP ASSEMBLY                           |

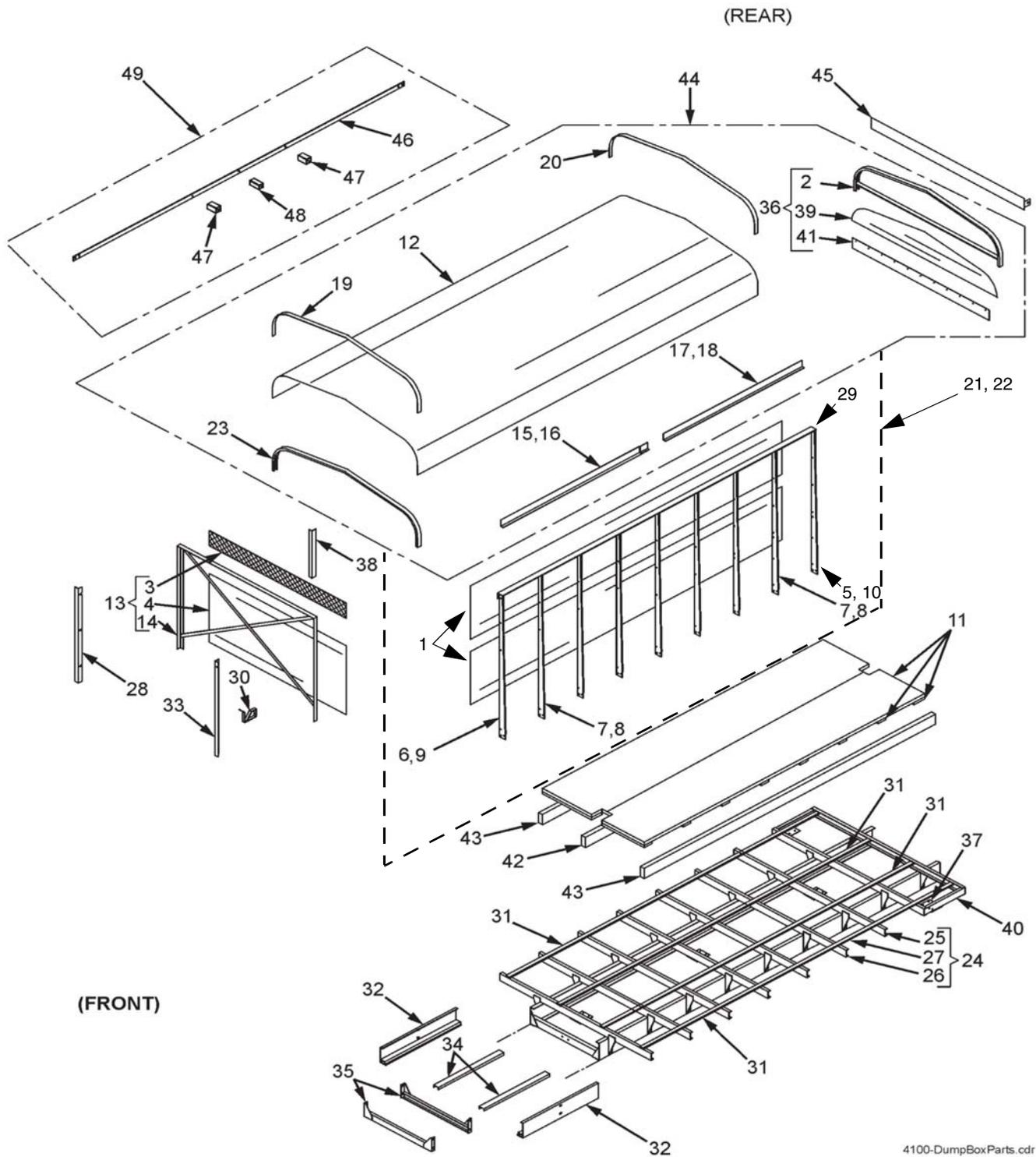


## REAR DISCHARGE DOOR COMPONENTS

| KEY | PART NO.           | DESCRIPTION  |
|-----|--------------------|--|
| 0   | 100-9994-55        | 3100 DUMPBOX BACKGATE COMPLETE   |
|     | 100-9994-55-HD-L   | 3100 DUMPBOX BACKGATE COMPLETE FOR 12" HIGHER SIDES  |
|     | 100-9990-34        | 4100 DUMPBOX BACKGATE COMPLETE   |
|     | 100-9990-34-HD-L   | 4100 DUMPBOX BACKGATE COMPLETE FOR 12" HIGHER SIDES  |
| 1   | 25-0179            | BEARING BRACKET BRACE (RED OR BLACK)   |
| 2   | 25-0190-1          | LEFT MAIN ROLLER BRACKET (RED OR BLACK) (ALL PTO MODELS AND HYD MODELS SN QD12201 & LATER) |
|     | 25-0190            | HYD LEFT MAIN ROLLER BRACKET (RED OR BLACK) (PRIOR TO SN QD12201)                          |
| 3   | 100-9990-23        | LEFT GATE SIDE FRAME (RED OR BLACK)  |
|     | 100-9990-23-12     | LEFT GATE SIDE FRAME 12" HIGHER (RED OR BLACK)   |
| 4   | 100-9990-25-12     | LATCH CATCH (RED OR BLACK)   |
| 5   | 100-9990-34-1      | BACK GATE FRAME ONLY (RED OR BLACK)  |
|     | 100-9990-34-1-HD-L | BACK GATE FRAME ONLY FOR 12" HIGHER SIDES (RED OR BLACK)                                   |
| 6   | 33-1002            | SLOW MOVING VEHICLE BRACKET  |
| 7   | 7611I-40.75-84     | PAINTED BACK GATE PANEL 40-3/4" x 84"  |
| 8   | 100-9990-24        | RIGHT GATE SIDE FRAME (RED OR BLACK)   |
|     | 100-9990-24-12     | RIGHT GATE SIDE FRAME 12" HIGHER (RED OR BLACK)  |
| 9   | 25-0218-1          | RIGHT MAIN ROLLER BRACKET (RED OR BLACK)   |
| 10  | 100-9990-115       | REAR GATE PIVOT, RH (RED OR BLACK)   |
| 11  | 100-9990-116       | REAR GATE PIVOT, LH (RED OR BLACK)   |
| 12  | 49-0022            | REAR GATE BELTING 3-1/2" x 84-1/2"   |
| 13  | 100-9990-34-6      | 12" HIGHER GATE TOP PANEL  |
| 14  | 100-9990-87        | NO ROOF ANGLE WELDED ASSEMBLY  |
| 15  | 100-9990-25-15     | RH BACKGATE HINGE BRACKET WELDMENT W/PIVOT SHAFT STOP WASHER (SHIP LOOSE)                  |
| 16  | 100-9990-25-17     | LH BACKGATE HINGE BRACKET WELDMENT W/PIVOT SHAFT STOP WASHER (SHIP LOOSE)                  |

# DUMP BOX PARTS

## 4100 SERIES



4100-DumpBoxParts.cdr

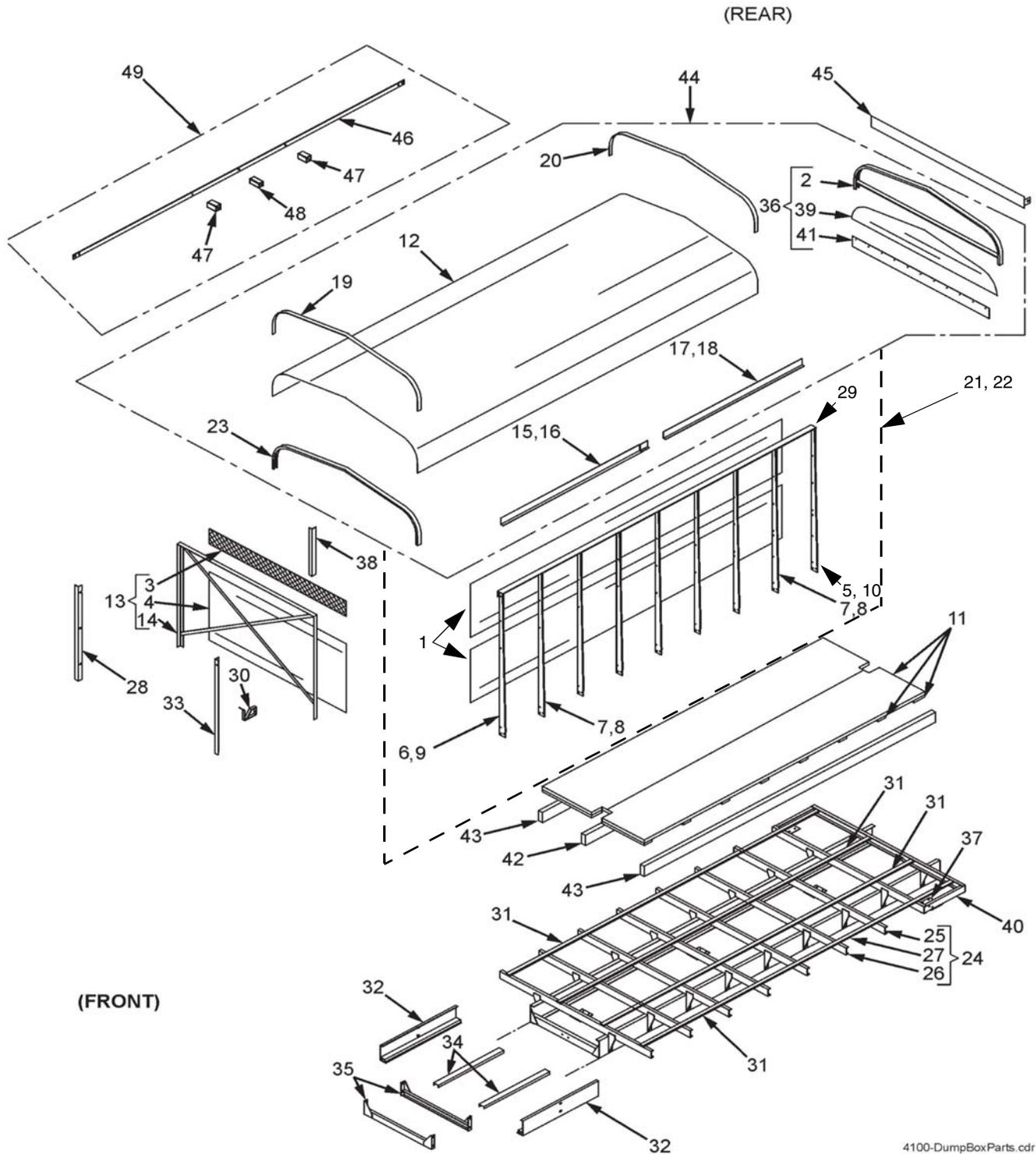
## DUMP BOX PARTS

### 4100 SERIES

| KEY | PART NO.       | DESCRIPTION   |
|-----|----------------|---|
| 1   | 7611I-40.75-16 | 16' SIDE PANEL, 20 GA x 40-3/4" PAINTED                     |
|     | 7611I-40.75-18 | 18' SIDE PANEL, 20 GA x 40-3/4" PAINTED                     |
|     | 7611I-40.75-20 | 20' SIDE PANEL, 20 GA x 40-3/4" PAINTED                     |
|     | 7611I-40.75-22 | 22' SIDE PANEL, 20 GA x 40-3/4" PAINTED                     |
|     | 7611I-40.75-24 | 24' SIDE PANEL, 20 GA x 40-3/4" PAINTED                     |
| 2   | 100-9990-37-1  | REAR ROOF BOW WELDED ASSEMBLY (RED OR BLACK)                |
| 3   | 100-9990-26-10 | FRONT GATE PANEL - SCREEN (STD)                             |
| 4   | 100-9990-26-7  | 20 GA FRONT END GATE PANEL PAINTED                          |
| 5   | 100-9990-8-3   | DUMP FRONT RIGHT (TSS REAR LEFT UPRIGHT) 10 GA x 82-1/2"    |
| 6   | 100-9990-8-4   | DUMP FRONT LEFT (TSS REAR RIGHT UPRIGHT) 10 GA x 82-1/2"    |
| 7   | 100-9990-8-5   | DUMP CENTER RIGHT (TSS CENTER LEFT UPRIGHT) 10 GA x 82-1/2" |
| 8   | 100-9990-8-6   | DUMP CENTER LEFT (TSS CENTER RIGHT UPRIGHT) 10 GA x 82-1/2" |
| 9   | 100-9990-8-1   | DUMP REAR RIGHT (TSS FRONT LEFT UPRIGHT) 10 GA x 82-1/2"    |
| 10  | 100-9990-8-2-1 | DUMP REAR LEFT (TSS FRONT RIGHT UPRIGHT) 10 GA x 82-1/2"    |
| 11  | 100-9990-161   | FLOOR COMPLETE 16'  |
|     | 100-9990-10    | FLOOR COMPLETE 18' (PRIOR TO 2003 MODELS)                   |
|     | 100-9990-162   | FLOOR COMPLETE 18'  |
|     | 100-9990-53    | FLOOR COMPLETE 20' (PRIOR TO 2003 MODELS)                   |
|     | 100-9990-163   | FLOOR COMPLETE 20'  |
|     | 100-9990-164   | FLOOR COMPLETE 22'  |
|     | 100-9990-165   | FLOOR COMPLETE 24'  |
| 12  | 100-9990-14-2  | 16' ROOF PANEL PAINTED 17' 2"                               |
|     | 100-9990-123-1 | 16' ROOF PANEL PAINTED FLUSH                                |
|     | 100-9990-15-8  | 18' ROOF PANEL PAINTED 19' 2"                               |
|     | 100-9990-124-1 | 18' ROOF PANEL PAINTED FLUSH                                |
|     | 100-9990-51-1  | 20' ROOF PANEL PAINTED 21' 2"                               |
|     | 100-9990-125-1 | 20' ROOF PANEL PAINTED FLUSH                                |
|     | 100-9990-54-1  | 22' ROOF PANEL PAINTED 23' 3"                               |
|     | 100-9990-126-1 | 22' ROOF PANEL PAINTED FLUSH                                |
| 13  | 100-9990-26    | FRONT END GATE COMPLETE                                     |
| 14  | 100-9990-26-5  | FRONT END GATE FRAME ONLY (RED OR BLACK)                    |
| 15  | 100-9990-120   | ROOF ANGLE LEFT   |
|     | 100-9990-126-2 | ROOF ANGLE LEFT 130" (22')                                  |
| 16  | 100-9990-121   | ROOF ANGLE RIGHT  |
|     | 100-9990-126-3 | ROOF ANGLE RIGHT 130" (22')                                 |
| 17  | 100-9990-64-1  | LEFT ROOF ANGLE EXT. 16'                                    |
|     | 100-9990-63-1  | LEFT ROOF ANGLE EXT. 18'                                    |
|     | 100-9990-69    | LEFT ROOF ANGLE EXT. 20', 22'                               |
| 18  | 100-9990-65-1  | RIGHT ROOF ANGLE EXT. 16'                                   |
|     | 100-9990-62-1  | RIGHT ROOF ANGLE EXT. 18'                                   |
|     | 100-9990-70    | RIGHT ROOF ANGLE EXT. 20', 22'                              |
| 19  | 100-9990-14-4  | FRONT ROOF STRAP/CAP  |
| 20  | 100-9990-14-3  | REAR ROOF GUARD STRAP                                       |

# DUMP BOX PARTS (CONT'D)

## 4100 SERIES



4100-DumpBoxParts.cdr

## DUMP BOX PARTS 4100 SERIES

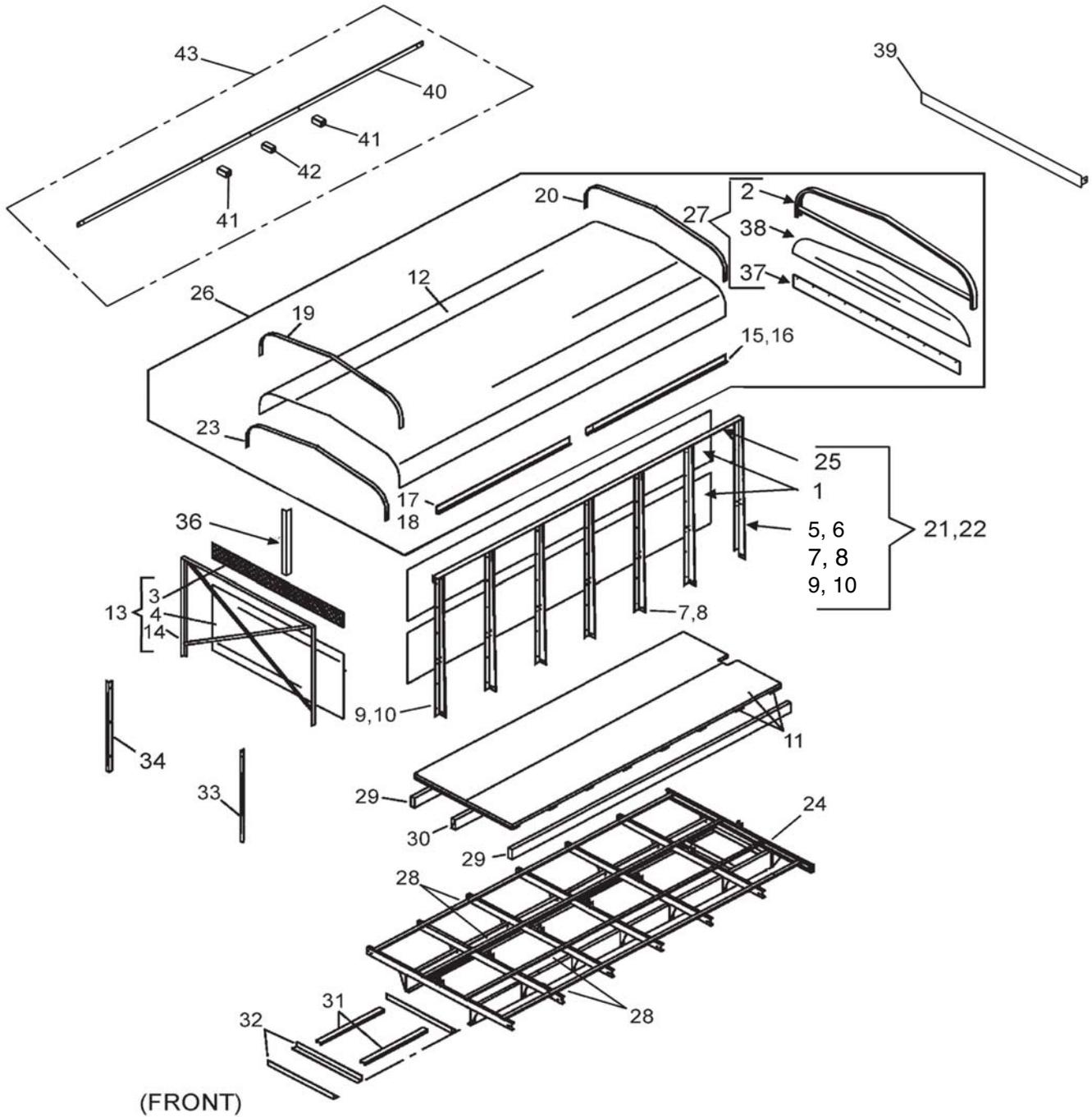
| KEY | PART NO.         | DESCRIPTION  |
|-----|------------------|--|
| 21  | 100-9990-100     | LEFT SIDE, COMPLETE 16'  |
|     | 100-9990-102     | LEFT SIDE, COMPLETE 18'  |
|     | 100-9990-104     | LEFT SIDE, COMPLETE 20' (ILLUSTRATED)                          |
|     | 100-9990-117     | LEFT SIDE, COMPLETE 22'  |
|     | 100-9990-127     | LEFT SIDE, COMPLETE 24'  |
| 22  | 100-9990-101     | RIGHT SIDE, COMPLETE 16'                                       |
|     | 100-9990-103     | RIGHT SIDE, COMPLETE 18'                                       |
|     | 100-9990-105     | RIGHT SIDE, COMPLETE 20'                                       |
|     | 100-9990-118     | RIGHT SIDE, COMPLETE 22'                                       |
|     | 100-9990-128     | RIGHT SIDE, COMPLETE 24'                                       |
| 23  | 100-9990-15-1    | ROOF BOW   |
| 24  | 100-9990-140     | BOTTOM FRAME COMPLETE HYD 16'                                  |
|     | 100-9990-40      | BOTTOM FRAME COMPLETE PTO 16'                                  |
|     | 100-9990-141     | BOTTOM FRAME COMPLETE HYD 18'                                  |
|     | 100-9990-41      | BOTTOM FRAME COMPLETE PTO 18'                                  |
| 24  | 100-9990-142     | BOTTOM FRAME COMPLETE HYD 20'                                  |
|     | 100-9990-42      | BOTTOM FRAME COMPLETE PTO 20'                                  |
|     | 100-9990-143     | BOTTOM FRAME COMPLETE HYD 22'                                  |
|     | 100-9990-43      | BOTTOM FRAME COMPLETE PTO 22'                                  |
|     | 100-9990-129-TR  | BOTTOM FRAME, TRUCK MT COMPLETE PTO 24'                        |
| 25  | 100-9990-1-11    | REAR CROSS CHANNEL WELDED ASSEMBLY                             |
|     | 100-9990-1-11-TR | REAR CROSS CHANNEL WELDED ASSEMBLY FOR TRUCK MOUNT             |
| 26  | 100-9990-1-5     | CROSS CHANNELS 94-1/2" W/ GUSSETS                              |
| 27  | 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")                                |
|     | 100-9990-59-1    | CHANNEL BED PIECE TRUCK MOUNT (23' 10")                        |
| 28  | 100-9990-33      | SIDE END GATE CAP RIGHT 49-1/2" (RED OR BLACK)                 |
|     | 100-9990-16      | SIDE END GATE CAP 69-1/2" (RED OR BLACK)                       |
|     | 100-9990-16-L-12 | SIDE END GATE CAP DUMP RIGHT (TSS LEFT) 81-1/2" (RED OR BLACK) |
| 29  | 100-9990-6-2     | TOP RAIL 16' (RED OR BLACK)                                    |
|     | 100-9990-8-8     | TOP RAIL 18' (RED OR BLACK)                                    |
|     | 100-9990-52-1    | TOP RAIL 20' (RED OR BLACK)                                    |
|     | 100-9990-97-7    | TOP RAIL 22' (RED OR BLACK)                                    |
|     | 100-9990-96-1    | TOP RAIL 24' (RED OR BLACK)                                    |
| 30  | 25-0006          | PTO HANGER BRACKET   |
|     | 33-0032          | PTO SECURING TARP STRAP  |
| 31  | 701-.75-1.75-16  | CHAIN RETURN SLIDE RAIL 16'                                    |
|     | 701-.75-1.75-18  | CHAIN RETURN SLIDE RAIL 18'                                    |
|     | 701-.75-1.75-20  | CHAIN RETURN SLIDE RAIL 20' & 22'                              |
|     | 706-1X3-10.25    | CHAIN RETURN SLIDE RAIL EXTENSION 24'                          |
|     | 709-1X3-16.25    | CHAIN RETURN SLIDE RAIL 24'                                    |



## DUMP BOX PARTS 4100 SERIES

| KEY | PART NO.          | DESCRIPTION  |
|-----|-------------------|--|
| 32  | 100-9990-1-10     | 10" REAR STEEL STRINGER, REINFORCING PLATE (18' + FLOOR LENGTHS) |
| 33  | 100-9990-32       | SIDE END GATE CAP LEFT 49-1/2" (RED OR BLACK)                    |
|     | 100-9990-16       | SIDE END GATE CAP 69-1/2" (RED OR BLACK)                         |
|     | 100-9990-16-R-12  | SIDE END GATE CAP DUMP LEFT (TSS RIGHT) 81-1/2" (RED OR BLACK)   |
| 34  | 100-9999-39       | 3" SIDE CHANNEL SUPPORT  |
| 35  | 100-9999-38       | MAIN STRINGER SUPPORT  |
|     | 100-9999-38-TR    | TRUCK MOUNT MAIN STRINGER SUPPORT ASSEMBLY                       |
| 36  | 100-9990-37       | DUMP REAR ROOF BOW PANEL ASSEMBLY                                |
| 37  | 100-9990-1-11-1-1 | REAR CROSS CHANNEL UPRIGHT SUPPORT                               |
| 38  | 100-9990-26-8     | CENTER GATE SUPPORT ANGLE  |
| 39  | 100-9990-37-3     | REAR ROOF BOW PANEL  |
| 40  | 25-0175           | DRIVE CHANNEL BRACKET  |
| 41  | 49-0019           | REAR ROOF PANEL BELTING  |
| 42  | 701-2X6-16-S      | CENTER FLOOR SUPPORT 16'   |
|     | 701-2X6-18-S      | CENTER FLOOR SUPPORT 18'   |
|     | 701-2X6-20-S      | CENTER FLOOR SUPPORT 20'   |
|     | 701-2X6-24-S      | CENTER FLOOR SUPPORT 22' & 24'                                   |
| 43  | 701-3X6-16-S      | OUTER FLOOR SUPPORT 16'  |
|     | 701-3X6-18-S      | OUTER FLOOR SUPPORT 18'  |
|     | 701-3X6-20-S      | OUTER FLOOR SUPPORT 20'  |
|     | 701-3X6-24-S      | OUTER FLOOR SUPPORT 22' & 24'                                    |
| 44  | 100-9990-123      | 16' FLUSH ROOF COMPLETE (STD)                                    |
|     | 100-9990-47       | 16' CROP SAVER ROOF COMPLETE                                     |
|     | 100-9990-124      | 18' FLUSH ROOF COMPLETE (STD)                                    |
|     | 100-9990-48       | 18' CROP SAVER ROOF COMPLETE                                     |
|     | 100-9990-125      | 20' FLUSH ROOF COMPLETE (STD)                                    |
|     | 100-9990-51       | 20' CROP SAVER ROOF COMPLETE                                     |
|     | 100-9990-126      | 22' FLUSH ROOF COMPLETE (STD)                                    |
|     | 100-9990-49       | 22' CROP SAVER ROOF COMPLETE                                     |
| 45  | 100-9990-87       | NO ROOF ANGLE  |
| 46  | 100-9990-8-11     | 16' & 18' BOX, SIDE SUPPORT STRAP 171"                           |
|     | 100-9990-52-2     | 20' & 22' BOX, SIDE SUPPORT STRAP 219"                           |
| 47  | 100-9990-52-4     | SIDE SUPPORT END TUBE  |
| 48  | 100-9990-52-3     | SIDE SUPPORT CENTER TUBE   |
| 49  | TSS-SS-16-PKG     | 16' & 18' SIDE SUPPORT PACKAGE                                   |
|     | TSS-SS-20-PKG     | 20' & 22' SIDE SUPPORT PACKAGE                                   |

# WELDED BOX PARTS 3100 SERIES

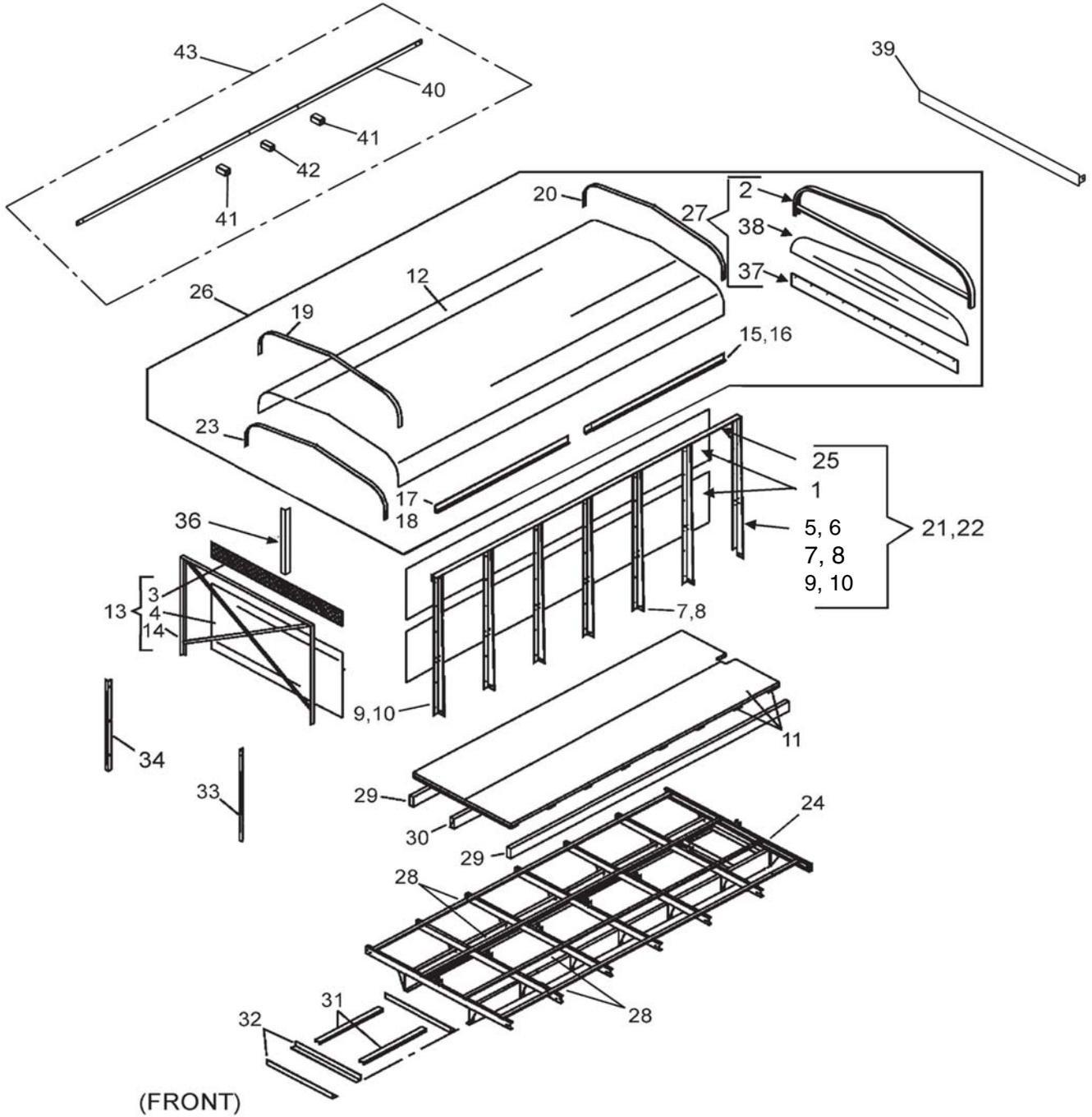


## WELDED BOX PARTS 3100 SERIES

| KEY | PART NO.       | DESCRIPTION  |
|-----|----------------|--|
| 1   | 7611I-40.75-14 | 14" SIDE PANEL 20 GA x 40-3/4" PAINTED                 |
|     | 7611I-40.75-16 | 16" SIDE PANEL 20 GA x 40-3/4" PAINTED                 |
|     | 7611I-40.75-18 | 18" SIDE PANEL 20 GA x 40-3/4" PAINTED                 |
|     | 7611I-40.75-20 | 20" SIDE PANEL 20 GA x 40-3/4" PAINTED                 |
| 2   | 100-9990-37-1  | REAR ROOF BOW WELDED ASSEMBLY (RED OR BLACK)           |
| 3   | 100-9990-26-10 | FRONT GATE SCREEN PAINTED                              |
| 4   | 100-9990-26-7  | 20 GA FRONT END GATE PANEL PAINTED                     |
| 5   | 100-9990-8-3   | FRONT RIGHT (TSS REAR LEFT) UPRIGHT 10 GA x 82-1/2"    |
| 6   | 100-9990-8-4   | FRONT LEFT (TSS REAR RIGHT) UPRIGHT 10 GA x 82-1/2"    |
| 7   | 100-9990-8-5   | CENTER RIGHT (TSS CENTER LEFT) UPRIGHT 10 GA x 82-1/2" |
| 8   | 100-9990-8-6   | CENTER LEFT (TSS CENTER RIGHT) UPRIGHT 10 GA x 82-1/2" |
| 9   | 100-9990-8-1   | REAR RIGHT (TSS FRONT LEFT) UPRIGHT 10 GA x 82-1/2"    |
| 10  | 100-9990-8-2   | REAR LEFT (TSS FRONT RIGHT) UPRIGHT 10 GA x 82-1/2"    |
| 11  | 100-9990-12    | FLOOR COMPLETE 14' PRIOR TO 2003                       |
|     | 100-9990-160   | FLOOR COMPLETE 14'                                     |
|     | 100-9990-11    | FLOOR COMPLETE 16' PRIOR TO 2003                       |
|     | 100-9990-161   | FLOOR COMPLETE 16'                                     |
|     | 100-9990-10    | FLOOR COMPLETE 18' PRIOR TO 2003                       |
|     | 100-9990-162   | FLOOR COMPLETE 18'                                     |
|     | 100-9990-163   | FLOOR COMPLETE 20'                                     |
| 12  | 100-9990-13-2  | 14' ROOF PANEL PAINTED 15' 2"                          |
|     | 100-9990-122-1 | 14' ROOF PANEL PAINTED FLUSH                           |
|     | 100-9990-14-2  | 16' ROOF PANEL PAINTED 17' 2"                          |
|     | 100-9990-123-1 | 16' ROOF PANEL PAINTED FLUSH                           |
|     | 100-9990-15-8  | 18' ROOF PANEL PAINTED 19' 2"                          |
|     | 100-9990-124-1 | 18' ROOF PANEL PAINTED FLUSH                           |
|     | 100-9990-51-1  | 20' ROOF PANEL PAINTED 21' 2"                          |
|     | 100-9990-125-1 | 20' ROOF PANEL PAINTED FLUSH                           |
| 13  | 100-9994-50    | FRONT GATE ASSEMBLY COMPLETE                           |
| 14  | 100-9990-26-5  | FRONT GATE FRAME ONLY (RED OR BLACK)                   |
| 15  | 100-9990-120   | ROOF ANGLE LEFT  |
| 16  | 100-9990-121   | ROOF ANGLE RIGHT                                       |
| 17  | 100-9990-66-1  | LEFT ROOF ANGLE EXT 14'                                |
|     | 100-9990-64-1  | LEFT ROOF ANGLE EXT 16'                                |
|     | 100-9990-62-1  | LEFT ROOF ANGLE EXT 18'                                |
|     | 100-9990-69    | LEFT ROOF ANGLE EXT 20'                                |
| 18  | 100-9990-67-1  | RIGHT ROOF ANGLE EXT 14'                               |
|     | 100-9990-65-1  | RIGHT ROOF ANGLE EXT 16'                               |
|     | 100-9990-63-1  | RIGHT ROOF ANGLE EXT 18'                               |
|     | 100-9990-70    | RIGHT ROOF ANGLE EXT 20'                               |
| 19  | 100-9990-14-4  | FRONT ROOF STRAP/CAP                                   |
| 20  | 100-9990-14-3  | ROOF GUARD STRAP                                       |
| 21  | 100-9994-32    | LEFT SIDE, COMPLETE 14'                                |
|     | 100-9994-26    | LEFT SIDE, COMPLETE 16'                                |
|     | 100-9994-28    | LEFT SIDE, COMPLETE 18'                                |
|     | 100-9994-30    | LEFT SIDE, COMPLETE 20'                                |
| 22  | 100-9994-31    | RIGHT SIDE COMPLETE 14'                                |
|     | 100-9994-25    | RIGHT SIDE COMPLETE 16'                                |
|     | 100-9994-27    | RIGHT SIDE COMPLETE 18'                                |
|     | 100-9994-29    | RIGHT SIDE COMPLETE 20'                                |
| 23  | 100-9990-15-1  | ROOF BOW   |

# WELDED BOX PARTS (CONT'D)

## 3100 SERIES



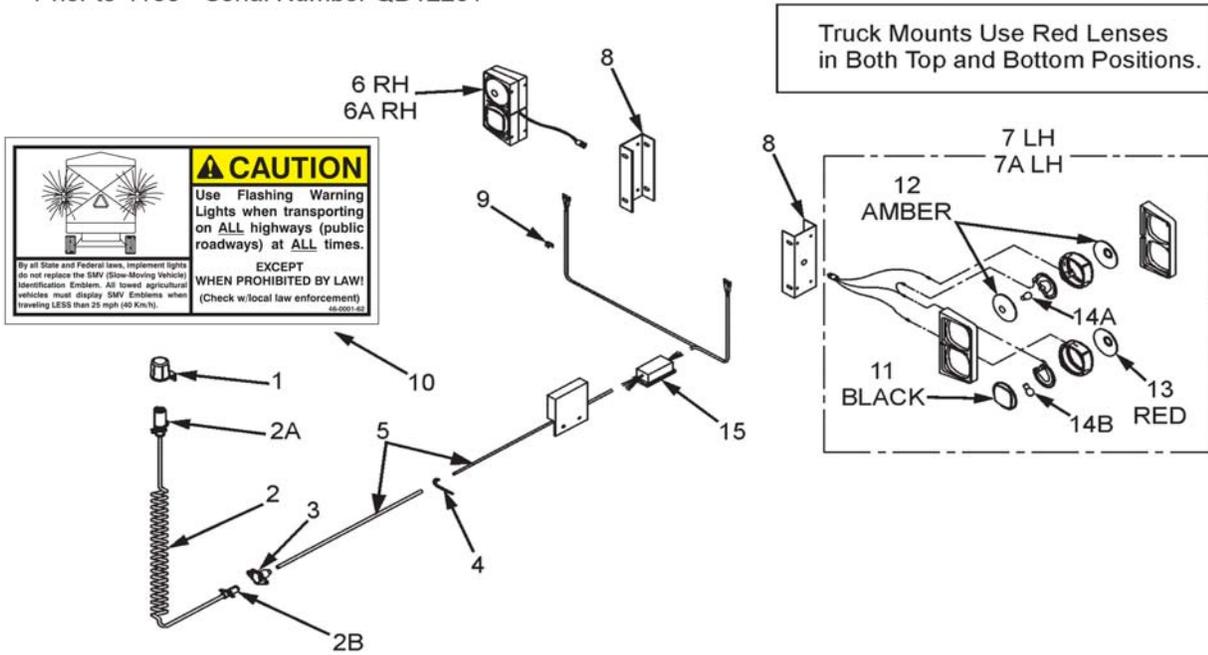
## WELDED BOX PARTS 3100 SERIES

| KEY         | PART NO.                      | DESCRIPTION  |
|-------------|-------------------------------|--|
| 24          | 100-9994-16                   | BOTTOM FRAME COMPLETE 14'                                      |
|             | 100-9994-23                   | HYD BOTTOM FRAME COMPLETE 14'                                  |
|             | 100-9994-23-TR                | HYD BOTTOM FRAME COMPLETE 14' TRUCK MOUNT                      |
|             | 100-9994-12                   | BOTTOM FRAME COMPLETE 16'                                      |
|             | 100-9994-20                   | HYD BOTTOM FRAME COMPLETE 16'                                  |
|             | 100-9994-20-TR                | HYD BOTTOM FRAME COMPLETE 16' TRUCK MOUNT                      |
|             | 100-9994-13                   | BOTTOM FRAME COMPLETE 18'                                      |
|             | 100-9994-21                   | HYD BOTTOM FRAME COMPLETE 18'                                  |
|             | 100-9994-21-TR                | HYD BOTTOM FRAME COMPLETE 18' TRUCK MOUNT                      |
|             | 100-9994-15                   | BOTTOM FRAME COMPLETE 20'                                      |
| 100-9994-22 | HYD BOTTOM FRAME COMPLETE 20' |  |
| 25          | 100-9990-4-2                  | TOP RAIL 14' (RED OR BLACK)                                    |
|             | 100-9990-6-2                  | TOP RAIL 16' (RED OR BLACK)                                    |
|             | 100-9990-8-8                  | TOP RAIL 18' (RED OR BLACK)                                    |
|             | 100-9990-52-1                 | TOP RAIL 20' (RED OR BLACK)                                    |
| 26          | 100-9990-122                  | 14' FLUSH ROOF COMPLETE (STD)                                  |
|             | 100-9992-22                   | 14' CROP SAVER ROOF COMPLETE                                   |
|             | 100-9990-123                  | 16' FLUSH ROOF COMPLETE (STD)                                  |
|             | 100-9992-23                   | 16' CROP SAVER ROOF COMPLETE                                   |
|             | 100-9990-124                  | 18' FLUSH ROOF COMPLETE (STD)                                  |
|             | 100-9992-24                   | 18' CROP SAVER ROOF COMPLETE                                   |
|             | 100-9990-125                  | 20' FLUSH ROOF COMPLETE (STD)                                  |
|             | 100-9992-25                   | 20' CROP SAVER ROOF COMPLETE                                   |
| 27          | 100-9995-120                  | REAR ROOF BOW ASSEMBLY COMPLETE                                |
| 28          | 701-.75-1.75-16               | 14' & 16' CHAIN SLIDE RAILS                                    |
|             | 701-.75-1.75-18               | 18' CHAIN SLIDE RAILS  |
|             | 701-.75-1.75-20               | 20' CHAIN SLIDE RAILS  |
| 29          | 701-3X6-16-S                  | OUTER FLOOR SUPPORT 3 x 6 x 16' (14' & 16')                    |
|             | 701-3X6-18-S                  | OUTER FLOOR SUPPORT 3 x 6 x 18' (18')                          |
|             | 701-3X6-20-S                  | OUTER FLOOR SUPPORT 3 x 6 x 20' (20')                          |
| 30          | 701-2X6-16-S                  | CENTER FLOOR SUPPORT 2 x 6 x 16' (14' & 16')                   |
|             | 701-2X6-18-S                  | CENTER FLOOR SUPPORT 2 x 6 x 18' (18')                         |
|             | 701-2X6-20-S                  | CENTER FLOOR SUPPORT 2 x 6 x 20' (20')                         |
| 31          | 100-9999-39                   | STRINGER SUPPORT CHANNEL                                       |
| 32          | 100-9994-1-2                  | STRINGER SUPPORT CROSS ANGLE                                   |
| 33          | 100-9990-32                   | SIDE END GATE CAP LEFT 49-1/2" (RED OR BLACK)                  |
|             | 100-9990-16                   | SIDE END GATE CAP 69-1/2" (RED OR BLACK)                       |
|             | 100-9990-16-R-12              | SIDE END GATE CAP DUMP LEFT (TSS RIGHT) 81-1/2" (RED OR BLACK) |
| 34          | 100-9990-33                   | SIDE END GATE CAP RIGHT 49-1/2" (RED OR BLACK)                 |
|             | 100-9990-16                   | SIDE END GATE CAP 69-1/2" (RED OR BLACK)                       |
|             | 100-9990-16-L-12              | SIDE END GATE CAP DUMP RIGHT (TSS LEFT) 81-1/2" (RED OR BLACK) |
| 35          | 25-0006                       | PTO HANGER BRACKET   |
| 36          | 100-9990-26-8                 | CENTER GATE SUPPORT ANGLE                                      |
| 37          | 49-0019                       | REAR ROOF PANEL BELTING  |
| 38          | 100-9990-37-3                 | BACK ROOF PANEL, 13" x 85-1/4" PAINTED                         |
| 39          | 100-9990-87                   | NO ROOF ANGLE  |
| 40          | 100-9990-8-11                 | 16' & 18' BOX, SIDE SUPPORT STRAP 171"                         |
|             | 100-9990-52-2                 | 20' & 22' BOX, SIDE SUPPORT STRAP 219"                         |
| 41          | 100-9990-52-4                 | SIDE SUPPORT END TUBE  |
| 42          | 100-9990-52-3                 | SIDE SUPPORT CENTER TUBE                                       |
| 43          | TSS-SS-16-PKG                 | 16' & 18' SIDE SUPPORT PACKAGE                                 |
|             | TSS-SS-20-PKG                 | 20' & 22' SIDE SUPPORT PACKAGE                                 |

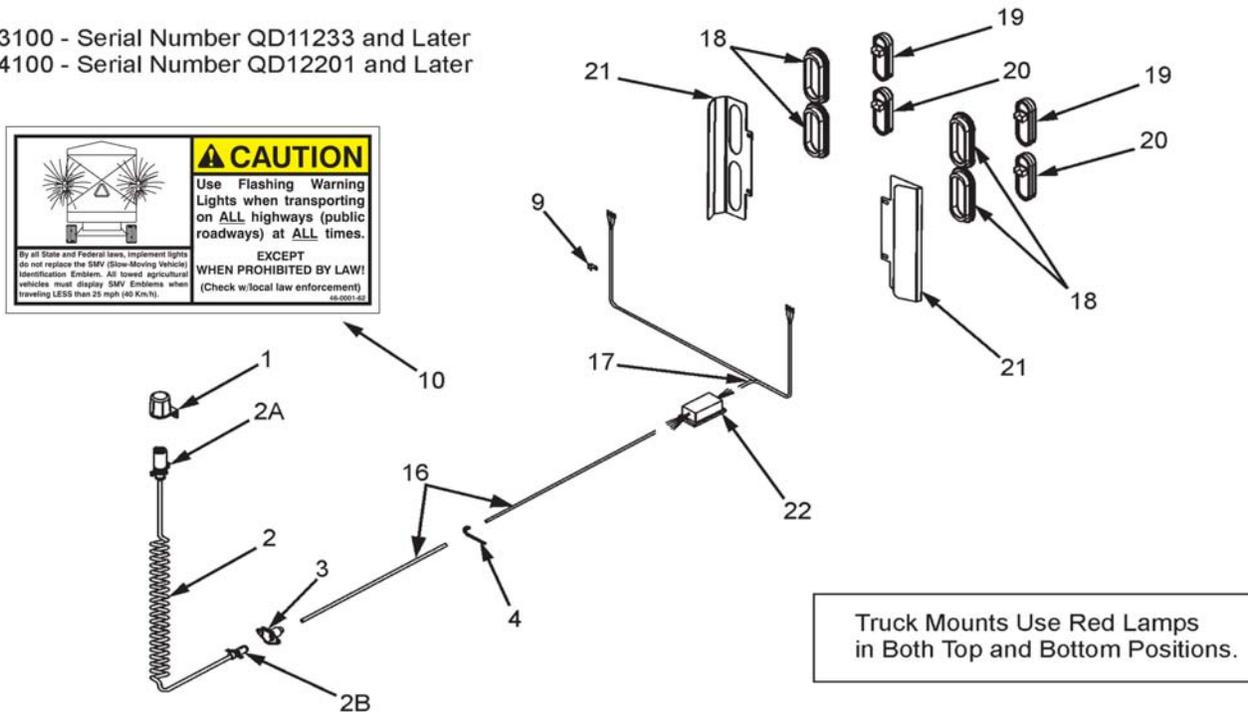
# HIGHWAY TRANSPORT AG LIGHTS

## #52-0020-LED-PKG

Prior to 3100 - Serial Number QD11233  
 Prior to 4100 - Serial Number QD12201



3100 - Serial Number QD11233 and Later  
 4100 - Serial Number QD12201 and Later

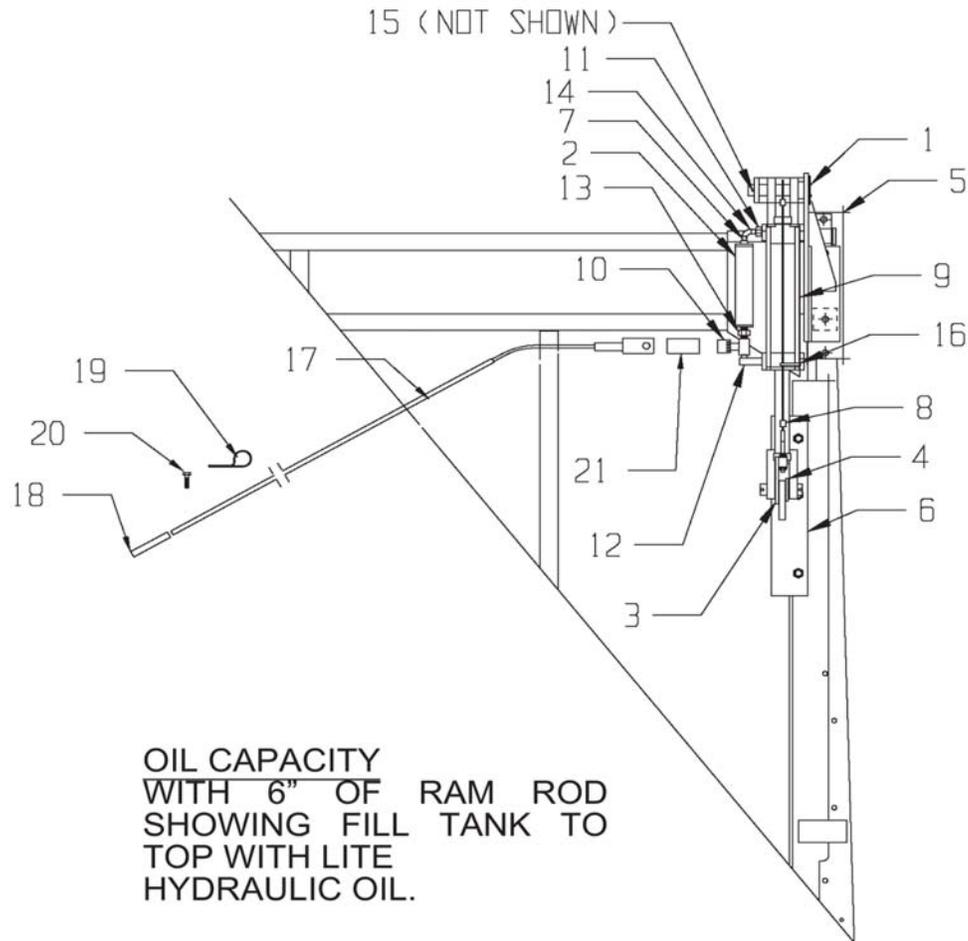


# HIGHWAY TRANSPORT AG LIGHTS

## #52-0020-LED-PKG

| KEY  | PART NO.        | QTY. | DESCRIPTION  |
|------|-----------------|------|--|
| 0    | 52-0020-LED-PKG | AR   | LED LIGHT PACKAGE  |
| 1    | 56-0009         | 1    | 7-WAY "STOR-A-WAY"   |
| 2    | 56-0005         | 1    | COIL CABLE ASSEMBLY  |
| 2A   | 56-0005-4       | 1    | 7-CONTACT PLUG END ONLY W/SPRING   |
| 2B   | 56-0005-1       | 1    | 4 HOLE PLUG  |
| 3    | 56-0004         | 1    | #1232 4-WAY SOCKET (4 PIN)   |
| 4    | 32-0026         | 8    | 14" NYLON TIE STRAP  |
| 5    | 56-0032-LED-PKG | 1    | AG LED LIGHT HARNESS UPDATE KIT  |
| 6    | 56-0031         | 1    | DUAL LIGHT RH W/4-PLUG   |
| 6A   | 56-0031-TR      | 1    | TRUCK MOUNT DUAL LIGHT RH W/4-PLUG   |
| 6/6A | 56-0034         | AR   | ADAPTER HARNESS 3-PLUG TO 4-PLUG (NEEDED IN ADDITION TO LIGHT FOR SERIAL #'S PRIOR TO QD06201) |
| 7    | 56-0031         | 1    | DUAL LIGHT LH W/4-PLUG   |
| 7A   | 56-0031-TR      | 1    | TRUCK MOUNT DUAL LIGHT LH W/4-PLUG   |
| 7/7A | 56-0034         | AR   | ADAPTER HARNESS 3-PLUG TO 4-PLUG (NEEDED IN ADDITION TO LIGHT FOR SERIAL #'S PRIOR TO QD06201) |
| 8    | 25-0255         | 2    | LIGHT MOUNT BRACKET (UNIVERSAL)  |
| 9    | 32-0024         | 4    | 3/8" PLATED LOOM CLAMP   |
| 10   | 46-0001-62      | 1    | CAUTION TAIL LIGHT DECAL   |
| 11   | 56-0001-3       | 2    | BEZEL BLANK, BLACK (FIT INSIDE HOUSING) (PRIOR TO SN QD09211)                                  |
|      | 56-0030-3       | 2    | BEZEL BLANK, BLACK (FIT OVER HOUSING) (SN QD09211 & LATER)                                     |
| 12   | 56-0001-1       | 4    | AMBER LENS (FIT INSIDE HOUSING) (PRIOR TO SN QD09211)  |
|      | 56-0030-1       | 4    | AMBER LENS (FIT OVER HOUSING) (SN QD09211 & LATER)   |
| 13   | 56-0001-2       | 2    | RED LENS (FIT INSIDE HOUSING) (PRIOR TO SN QD09211)  |
|      | 56-0030-2       | 2    | RED LENS (FIT OVER HOUSING) (SN QD09211 & LATER)   |
| 14   | 56-0001-4       | 4    | #1157 BULB   |
| 14A  | 56-0001-5       | 2    | #1156 SINGLE FILAMENT BULB   |
| 14B  | 56-0001-4       | 2    | #1157 DUAL FILAMENT BULB   |
| 15   | 56-0032-1       | 1    | AG MODULE W/CONNECTORS   |
| 16   | 56-0037         | AR   | CONDUCTOR TRAILER CABLE  |
| 17   | 56-0131         | 1    | LED LIGHT Y-HARNESS LESS MODULE PLUGS  |
| 18   | 56-0082         | 4    | 6" OVAL GROMMET  |
| 19   | 56-0081         | 2    | 6" OVAL AMBER LED LIGHT  |
| 20   | 56-0115         | 2/4  | 6" OVAL RED LED LIGHT  |
| 21   | 25-0259         | 2    | LED LIGHT BRACKET  |
| 22   | 56-0084         | 1    | LED AG ENHANCER MODULE   |

## GATE DELAY 3100 & 4100 SERIES



### GATE DELAY ADJUSTMENTS

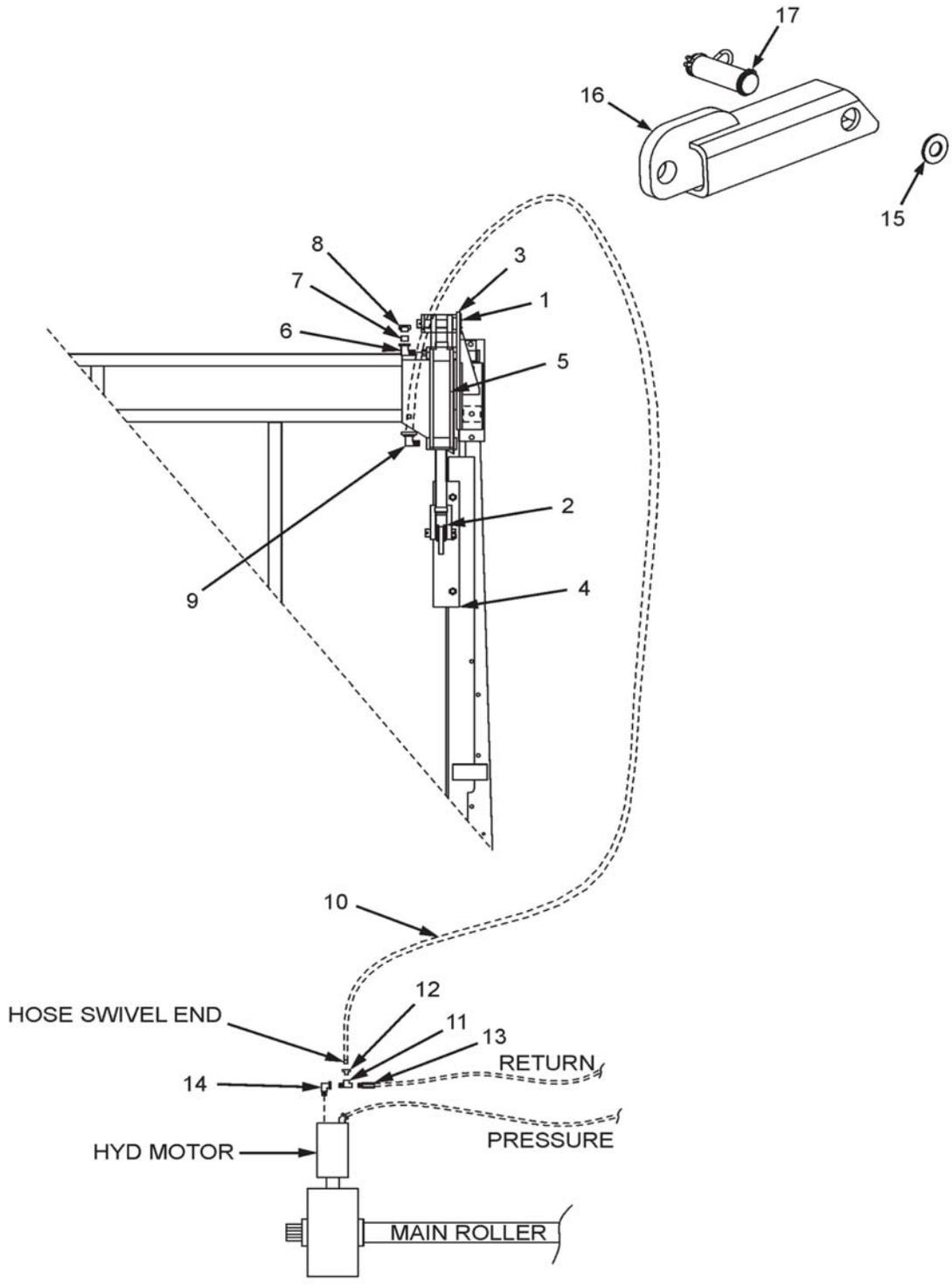
When the gate is completely closed (Tight to rear upright) cable and eyebolt assembly should be adjusted so cable has no slack. Cable should be tight but not overtightened. If cable and eyebolt is overtightened lower cylinder will trip out of the L-shaped slot on the lower bracket too soon and the gate will try to close before the cylinder is stroked out. If the cable and eyebolt is too loose the lower cylinder will not trip out of the L-shaped slot and the cylinder will reach its maximum stroke and the gate will still not be in the closed position. The gate will be held open by the top cylinder bracket and the bracket may become damaged over time. Eyebolt and cable will need to be adjusted periodically to maintain proper operation.

**GATE DELAY**  
**3100 & 4100 SERIES**

| KEY | PART NO.   | DESCRIPTION                           |
|-----|------------|---------------------------------------|
|     | 4200-GATE  | GATE DELAY CLOSING OPTION             |
| 1   | 25-8092-1  | GATE REGULATOR TOP SHAFT              |
| 2   | 25-8095    | OIL RESERVOIR ASSEMBLY                |
| 3   | 25-8096    | GATE RELEASE TRIP ARM ASSEMBLY        |
| 4   | 25-8097-1  | LOWER SLEEVE SPACER                   |
| 5   | 25-8099    | TOP CYLINDER BRACKET                  |
| 6   | 25-8100    | LOWER MOUNT PLATE WELDED ASSEMBLY     |
| 7   | 30-0015    | 1/4" FITTING x 90 DEGREE ELBOW        |
| 8   | 25-8098    | CABLE EYEBOLT ASSEMBLY                |
| 9   | 55-0093    | HYDRAULIC CYLINDER                    |
| 10  | 55-0094    | FLOW CONTROL                          |
| 11  | 55-0095    | 1/8" TO 3/8" NPT REDUCER              |
| 12  | 55-0096    | 3/8" NPTF x 90 DEGREE MALE PIPE ELBOW |
| 13  | 55-0097    | 3/8" TO 3/8" NIPPLE                   |
| 14  | 735-.25CT  | 1/4" COPPER TUBING (.25 FT. REQ)      |
| 15  | 823-19-2   | 3/16" x 2" COTTER PIN                 |
| 16  | 952-0001-7 | NYLON TIE STRAP                       |
| 17  | 25-8101    | GROUND CONTROL ROD ASSY. W/GRIP       |
| 18  | 51-0007    | HANDLE GRIP                           |
| 19  | 933-3804   | 5/16" x 4" EYEBOLT                    |
| 20  | 825-25-1Z  | 1/4" x 1" SELF TAPPING SCREW          |
| 21  | 25-8102-2  | DRAG SLEEVE (HOSE)                    |

# GATE DELAY/RETURN LINE (OPTIONAL)

## 3100 & 4100 SERIES

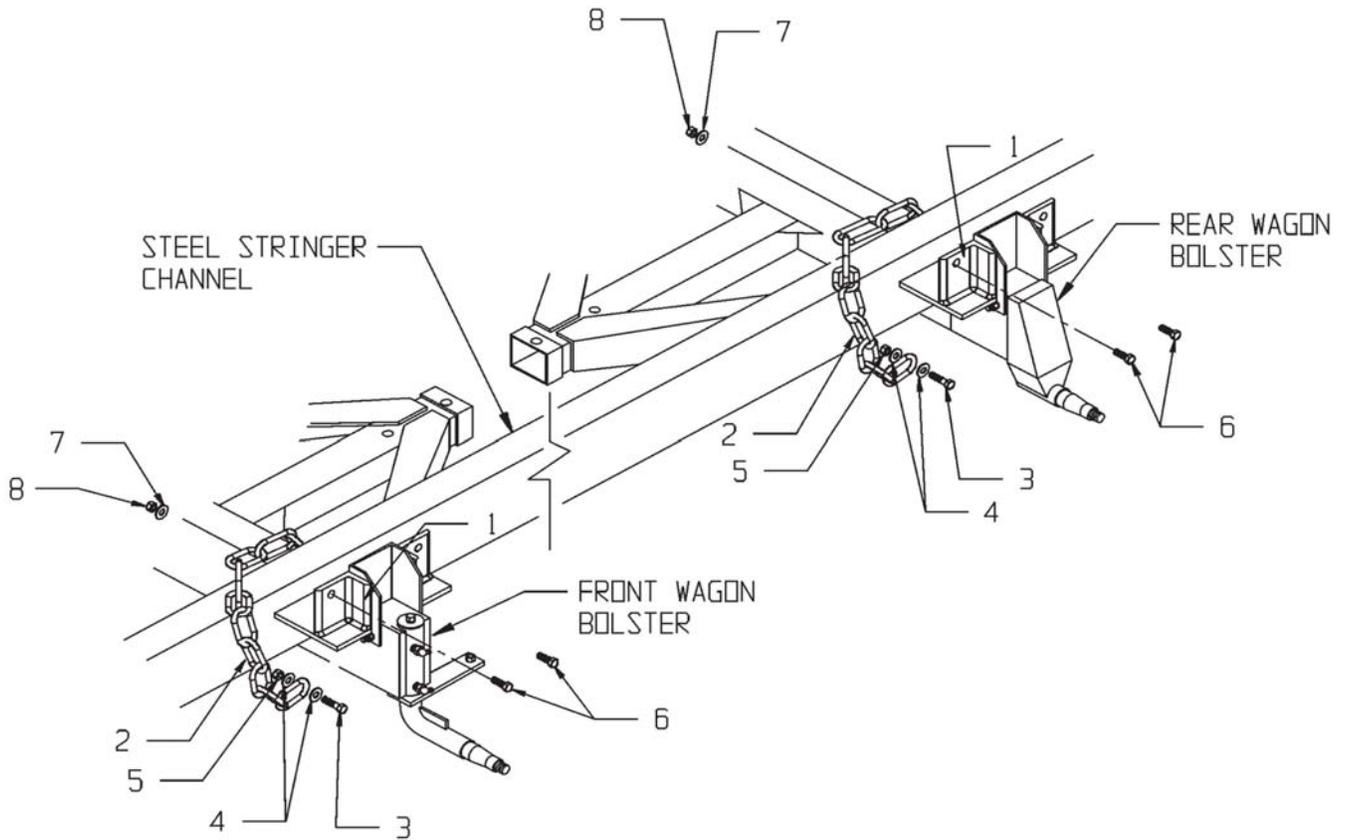


4200-GDS-RL-GATEPARTSs.CDR

**GATE DELAY/RETURN LINE (OPTIONAL)**  
**3100 & 4100 SERIES**

| KEY | PART NO.          | DESCRIPTION   |
|-----|-------------------|---|
|     | 4200-GDS-RL-PKG   | RETURN LINE GATE DELAY CLOSING OPTION                           |
|     | 4200-GDS-RL-KIT   | UPDATE PACKAGE TO SWITCH FROM GROUND CONTROL ROD TO RETURN LINE |
| 1   | 25-8092-1         | GATE REGULATOR TOP SHAFT  |
| 2   | 25-8097-1         | LOWER SLEEVE SPACER   |
| 3   | 25-8099           | TOP CYLINDER BRACKET  |
| 4   | 25-8112           | LOWER MOUNT PLATE WELDED ASSEMBLY                               |
| 5   | 55-0093           | HYDRAULIC CYLINDER  |
| 6   | 55-0195           | 3/8" MALE x 1/4" FEMALE STREET ELBOW                            |
| 7   | 55-0108           | 1/4" x 1/8" MALE TO FEMALE BUSHING                              |
| 8   | 55-0107           | 1/8" NPT VENT   |
| 9   | 55-0196           | 3/8" M x 1/4" SWIVEL FEMALE x 90 DEGREE ELBOW                   |
| 10  | 55-0202           | 1/4" x 228" HOSE  |
| 11  | 55-0201           | 3/4" TEE FITTING  |
| 12  | 55-0174           | 3/4" x 1/4" BUSHING   |
| 13  | 55-0007-B-RF-GDRL | REVERSE FLOW CHECK VALVE W/BACK PRESSURE SPRING                 |
| 14  | 655-0015-1        | See Page 22   |
| 15  | 25-8097-1         | LOWER SLEEVE SPACER (TRUCK MOUNTS ONLY)                         |
| 16  | 25-8111           | TOP PIVOT WELDMENT (TRUCK MOUNTS ONLY)                          |
| 17  | 955-3802-10       | CYLINDER PIVOT PINS W/CLIPS (TRUCK MOUNTS ONLY)                 |
| NS  | 32-0033           | 1/2" LOOM CLAMP VINYL COATED                                    |
| NS  | 810-2520-Z        | 1/4-20 SPIN LOCKNUTS  |
| NS  | 851-2520-.75Z     | 1/4-20 x 3/4" M.B. ZINC   |
| NS  | 65-0006-5         | 14" NYLON TIE STRAP   |

## TIE DOWN KIT FOR STEEL BOX



| KEY | PART NO.      | DESCRIPTION                      |
|-----|---------------|----------------------------------|
|     | 52-0003S      | TIE DOWN KIT (STEEL STRINGERS)   |
| 1   | 75-5015       | BRACKET                          |
| 2   | 52-0003-1     | STANDARD 51" CHAIN               |
|     | 75-0341-4-HD  | 61" CHAIN FOR RISER PACKAGE      |
| 3   | 801-3816-1.5Z | BOLT, HEX MACHINE, 3/8" x 1-1/2" |
| 4   | 805-0038-Z    | 3/8" FLAT WASHER                 |
| 5   | 815-3816-Z    | 3/8" LOCK NUT                    |
| 6   | 851-5013-1.5Z | 1/2" x 1-1/2" HEX MACHINE BOLT   |
| 7   | 805-0050-Z    | 1/2" FLAT WASHERS                |
| 8   | 815-5013-Z    | 1/2" LOCK NUTS                   |

## MEYER QUICK DUMP REAR UNLOAD FORAGE BOXES TROUBLESHOOTING

|                             | SYMPTOM                     | PROBLEM   | SOLUTION   |
|-----------------------------|-----------------------------|---|--|
| GEAR BOXES                  | CLUNKING SOUNDS.            | GEARS/BEARINGS WEARING — LOW OIL                    | REPLACE GEARS/ BEARINGS — FILL WITH OIL          |
|                             | EXCESSIVE GEAR WEAR.        | FULL LOAD “HI” RANGE UNLOADING.                     | START FULL LOADS IN “LO” RANGE.                  |
|                             | BROKEN GEARS.               | WRONG GEAR LUBE OIL.                                | SEE LUBRICATION SECTION FOR PROPER OIL.          |
|                             |                             | HIGH SPEED START-UP/NO OIL.<br>WORN OUT GEARS.      | SLOW START-UP/FILL WITH OIL.<br>REPLACE GEARS.   |
| MAIN APRON                  | JUMPING LINKS.              | LOOSE MAIN APRON.                                   | TIGHTEN MAIN APRON.                              |
|                             | BENT APRON SLATS.           | WORN/BROKEN CHAIN.                                  | CLEAN/TIGHTEN/REPLACE APRON.                     |
|                             | BROKEN PINTLE CHAIN.        |   |  |
| PTO DRIVE SHAFT             | WHIPS/SHAKES.               | OVER EXTENDED OR BENT PTO.                          | SHORTEN WAGON GEAR HITCH LENGTH.<br>REPLACE PTO. |
|                             | VIBRATES UP AND DOWN.       | FORAGE BOX CENTER SHAFT BENT.                       | REPLACE CENTER SHAFT.                            |
|                             | WORN UNIVERSAL JOINTS.      | LACK OF LUBRICATION/ USED.                          | LUBRICATE JOINTS REGULARLY/REPLACE.              |
| ROLLER CHAINS AND SPROCKETS | EXCESSIVE CHAIN WEAR.       | LACK OF LUBRICATION.<br>OUT OF ALIGNMENT/<br>LOOSE. | LUBRICATE/ALIGN/<br>TIGHTEN.                     |
|                             | ROLLER CHAIN BREAKAGE.      | LOOSE ROLLER CHAIN.<br>WORN SPROCKETS.              | TIGHTEN ROLLER CHAINS.<br>REPLACE SPROCKETS.     |
|                             | SPROCKET TEETH TIPPED OVER. | WORN ROLLER CHAIN.<br>BAD ROLLER BEARINGS.          | REPLACE ROLLER CHAIN.<br>REPLACE BEARINGS.       |

**MEYER QUICK DUMP REAR UNLOAD FORAGE BOXES  
SPECIFICATIONS**

| <b>MODEL</b>   | <b>3116</b>  | <b>3118</b> | <b>3120</b> | <b>4116</b> | <b>4118</b> | <b>4120</b> | <b>4122</b> |
|----------------|--|-------------|-------------|-------------|-------------|-------------|-------------|
| Floor Length   | 16' 6"   | 18' 6"      | 20' 6"      | 16' 6"      | 18' 6"      | 20' 6"      | 22' 6"      |
| Overall Length | 18' 4"   | 20' 4"      | 22' 4"      | 18' 4"      | 20' 4"      | 22' 4"      | 24' 4"      |
| Weight         | 3540#  | 3820#       | 4100#       | 3840#       | 4120#       | 4400#       | 4680#       |
| Main Apron     | 667H   | 667H        | 667H        | 667X        | 667X        | 667X        | 667X        |
| Overall Width  | All Models 97"   |             |             |             |             |             |             |
| Inside Width   | All Models 87"   |             |             |             |             |             |             |
| Overall Height | All Models 113-1/2" w/Standard Roof                                      |             |             |             |             |             |             |
| Inside Height  | All Models 94" w/Standard Roof   |             |             |             |             |             |             |
| Power Source   | 540 RPM PTO or Hydraulic Drive Motor                                     |             |             |             |             |             |             |
| Flared Side    | Left or Right or Both - Optional (used w/ High Lift Dump Boxes)          |             |             |             |             |             |             |
| Optional       | Side Support System, 12" Higher Sides - 6" Higher Roof - Rear Gate Delay |             |             |             |             |             |             |

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE OR OBLIGATION.

This Page Intentionally Blank

This Page Intentionally Blank





**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](mailto:sales@meyermfg.com)

Website: [www.meyermfg.com](http://www.meyermfg.com)