



LEWIS WINDROWER OWNER / OPERATOR MANUAL



MODEL # WR-1 WINDROWER

Manufactured by: **LEWIS BROTHERS MANUFACTURING, INC.**
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2-21-14

INTRODUCTION

All Lewis Brothers equipment is manufactured under stringent production and quality assurance procedures prior to preparation for shipment. A final quality check is performed on all equipment before shipping.

The best equipment is only as good as its operation and management. Sound operation and good preventive maintenance practices are essential to efficient performance of your Lewis Windrower.

Questions on parts and service for the equipment covered in this manual should be referred to the local dealer from whom the equipment was purchased, or the nearest Lewis Brothers Dealer.

We sincerely thank you for purchasing Lewis Brothers equipment.

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SAFETY

OWNER'S AND OPERATOR'S RESPONSIBILITY

This manual is intended for use with your Lewis Windrower. Extra effort has been made to provide for safe operation of this equipment. This manual as well as the safety decals placed on the equipment is part of that effort. Your new Windrower should perform the various functions for which it was designed if it is maintained, adjusted to your specific conditions, and operated correctly.

It is the responsibility of the owner and every operator of this equipment to read and understand this manual before initial startup, before each season, before performing service or maintenance tasks and prior to storing the equipment. Each employee who will work on or around this equipment should be instructed in how to do so safely.

It is important to understand the operational methods and safety issues mentioned in this manual. Lewis Brothers cannot anticipate all conceivable ways service and operational functions might be performed and of the possible hazardous consequences of such. Anyone using or servicing this equipment must first satisfy themselves that their chosen methods do not jeopardize the safety of themselves, others, or the equipment.

Read the warranty on page 8. The purchaser is required to fill out and return the registration card supplied with this owner's manual within ten (10) days of purchase to Lewis Brothers Manufacturing to be eligible for warranty coverage.

Genuine Lewis replacement parts will insure the durability and long life of your windrower. Lewis repair parts should be ordered through your Lewis Brothers' Dealer.

Operators should thoroughly inspect the Windrower before and after each use. All bearings should be properly lubricated as specified, and any worn or damaged parts repaired or replaced. Failure to repair or replace worn parts could result in damage or excess wear to other parts.

GENERAL PRECAUTIONS

- **MAKE SURE** everyone is clear of the equipment before starting the tractor's engine and while equipment is under operation.
- **DO NOT** permit anyone to ride on this equipment.
- **KEEP** hands, feet, hair and clothing away from all moving parts. Do not wear loose clothing while operating equipment, as this may present an entanglement hazard.
- **DRIVE** the pulling tractor at speeds compatible with conditions and good safety practices. This is especially important when operating over rough ground, on slopes, crossing ditches or while turning.
- **NEVER LEAVE** this equipment in the raised position when parked and unattended.
- **STOP** the tractor's engine and relieve any hydraulic pressure by actuating all hydraulic valves in both directions before disconnecting any part of the hydraulic system.
- **MAKE SURE** hitch components are attached securely before operating or transporting.
- **USE** flashing warning lights when on highways, except where prohibited by law.
- **STOP** tractor engine before leaving operator's position to adjust, lubricate, clean or unclog machine.
- **KEEP** all shields in place.
- **MAXIMUM** towing speed is 25 MPH.
- **OBSERVE** all safety decals located on machine. Should any safety decal become damaged unreadable, or lost, **REPLACE IT IMMEDIATELY**. New decals may be obtained from your Lewis Brothers' dealer.
- **WEAR** dust respirator at all times while using this machine (3M part # 8710 is recommended).

WARRANTY

LEWIS BROTHERS MANUFACTURING, INC.

LIMITED WARRANTY

Lewis Brothers Manufacturing, Inc. (hereinafter referred to as "LBM") warrants each item of new equipment manufactured by LBM to be free from defects in material and workmanship under normal use and service.

The obligation of LBM under this LIMITED WARRANTY is limited to repair or replacement, as LBM may elect, of any parts that prove, in LBM's judgment, to be defective in material and workmanship within the first twelve (12) months after the date of invoice to the original purchaser. THIS LIMITED WARRANTY DOES NOT APPLY TO BELTS, HYDRAULIC HOSES, TIRES, AND OTHER SERVICE ITEMS, WHICH SHALL HAVE A NINETY (90) DAY WARRANTY.

THIS LIMITED WARRANTY WILL APPLY FOR (3) MONTHS ONLY WHEN THE UNIT IS USED IN A COMMERCIAL APPLICATION.

All warranty part repairs and replacements must be made by a certified LBM dealer. Any outside work or alterations made without written approval of LBM will render this LIMITED WARRANTY void.

LBM's obligation specifically excludes any liability for consequential damages, such as loss of profit, delays, expenses, damage to goods or property used in connection with or processed in or by the product sold, or damage to the product sold from whatever cause, whether or not such loss is due to negligence by LBM.

This LIMITED WARRANTY shall not apply to any item that has been operated in a manner not recommended by LBM.

No person is authorized to give any other warranties or to assume any other liability on behalf of LBM unless made in writing by Lewis Brothers Manufacturing, Inc.

THIS LIMITED WARRANTY IS IN LIEU OF AND REPLACES ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE EXCLUDED, AS ARE ALL OTHER REPRESENTATIONS TO THE USER-PURCHASER AND ALL OTHER OBLIGATIONS OR LIABILITIES, INCLUDING LIABILITY FOR INCIDENTAL AND CONSEQUENTIAL DAMAGES, ON THE PART OF LBM.

LEWIS BROTHERS MANUFACTURING, INC.
P.O. BOX 146 - BAXLEY, GA. 31513
FEBRUARY 1, 2007

SPECIFICATIONS

SPECIFICATIONS

Lewis Windrower Model # WR-1

| | |
|---------------------------------------|--|
| Width | 8ft 3in |
| Length | 13ft |
| Height | 58-1/2 in |
| Weight | 3400 lbs |
| Hydraulic Pump | 28 gpm |
| Blade Width | 8ft |
| Tank Capacity | 50 gallons |
| Aux. Hyd. Outlets | 1 set (required) 2 sets (recommended) |
| Tractor hp (creeper gear recommended) | 75hp |

SETUP AND OPERATION

MACHINE SETUP

Attachment to Tractor

The Lewis Windrower can be operated on any tractor equipped with a standard 3 – point hitch and with a minimum of one set of remote hydraulic hook ups. If the tractor has two sets of remote hook ups, then the Windrower should be pulled from the fixed drawbar of the tractor. If the tractor is equipped with only one set of remote hook ups, then the lift arms should be used to raise and lower the front of the Windrower.



Figure 1

Attach the Windrower to the tractor's fixed drawbar using a heavy-duty hitch pin. Next, attach the hydraulic pump to the tractor PTO shaft. Slide the pump onto the PTO shaft as far as possible. Secure its position by wrapping the chain on the torque arm around some portion of the tractor hitch which is secure and will not allow the pump to slide off or spin once the PTO is engaged. A good place to chain the pump is around the top link pin. Always try to pull the pump from the PTO after it is chained into place. If the pump slides very far back on the shaft it is not snug enough. Take up another link on the chain and repeat the process again. Making this connection too tight may put excess pressure on the PTO shaft resulting in damage to pump or shaft.

Cooling Fan

The Windrower is equipped with an oil cooler to maintain safe operating temperatures. The cooling fan requires a 12 volt power source with an in-line 10 amp ATC fuse (supplied). (See figure 1) The fan should be connected with the white wire as the negative (-), and the black wire as the positive (+). (See figure 1) Proper wire connection will result in a fan rotation that forces air in an upward direction across the oil cooler. The oil cooler should be operated at all times to avoid possible damage to the system.

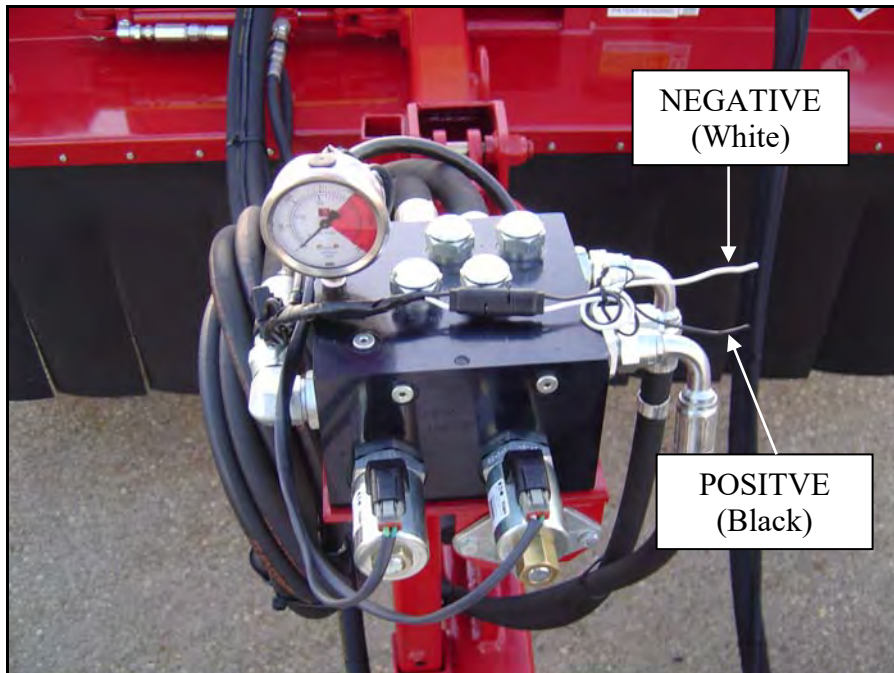




Figure 1



Figure 2

Tractors Equipped with Single Hydraulic Remote Connections


- Attach the *Windrower* to the lift arms of the tractor with the use of a lift arm drawbar.
- Connect the rear hydraulic cylinder hoses to the tractor. (see figure A) The transport pin should remain in position (see figure B) and the tractor lift arms will control raising and lowering the *Windrower* during operation.
-  **WARNING** Before Transporting or Operating Machine, be sure to install or remove cylinder lock. (see figure A and B on page 17)
- Remove adjustable spacers on the rear cylinder before operation.

 **CAUTION** Be sure to replace these spacers before transporting the machine.

- Once the operator has determined the proper depth of operation, he should set the stop on the control lever in order to maintain the same depth throughout the house.

Tractors Equipped with Multiple Hydraulic Remote Connections

- Attach the *Windrower* to the fixed drawbar. Connect the hydraulic lines for the front and rear cylinders to the tractor (see figure A).
- Remove the adjustable spacers on the rear cylinder before operation. Be sure to replace these spacers before transporting the machine (see figure C). Before operation, the front transport pin (see figure B) located on the tongue must be removed.

 **WARNING** Failure to remove the transport pin may result in damage to the machine.

 **CAUTION** Be sure to replace pin before transporting machine once operation is complete.

- Once the operator has determined the proper depth in the material, spacers should be inserted on to the front hydraulic shaft. This will help the operator maintain a uniform depth of operation throughout the house.
- Be sure to position the control box in a safe and convenient location for the operator. Once the control box has been securely located and all connections have been made the operator should be ready to begin.



Never operate the Windrower with anyone near the machine. Never get off the tractor with the auger in motion. Make sure that the area around the *Windrower* is clear before operation.

- Activate the green switch on the control box to engage the auger. The tractor should be placed in the lowest gear to begin. As the tractor moves forward the operator should lower the *Windrower* to begin making the windrow. It is important to begin with the *Windrower* as level as possible to maintain a level pass throughout the entire house. The operator can make adjustments as needed by raising or lowering the front of the *Windrower* during the windrow process.

Leveling the Windrow

- To level and spread the windrow back out, the *Windrower* must be in the extended position. To do this the operator should set the blade of the machine firmly on the house floor.
- Activate the black switch on the control box to side shift the auger. It will be necessary to insert one or more spacers onto the rear hydraulic cylinder shaft in order to control the amount of litter that will pass under the blade as the windrow is being spread back out. It is important that the position of the tires on the *Windrower* be maintained over the center of the windrow during this process. This will insure the machine remains level as it moves the material back out, and thus results in a more uniform and level operation. The location of the tractor during this operation is not as important as the position on the *Windrower*.
- In heavy or deep material conditions, it may be necessary to make multiple passes in order to process all the material.
- The *Windrower* is equipped with a pressure gauge to indicate overload conditions. All efforts should be made to avoid operation on the red shaded area of the gauge. Continued operation in the red zone will result in premature failure of the system.

Storage

- Be sure to clean and lubricate the windrower after each use and maintain all guards and decals. Should any guard or decal be damaged or need replacing, contact your Lewis Brothers Dealer.



Figure A

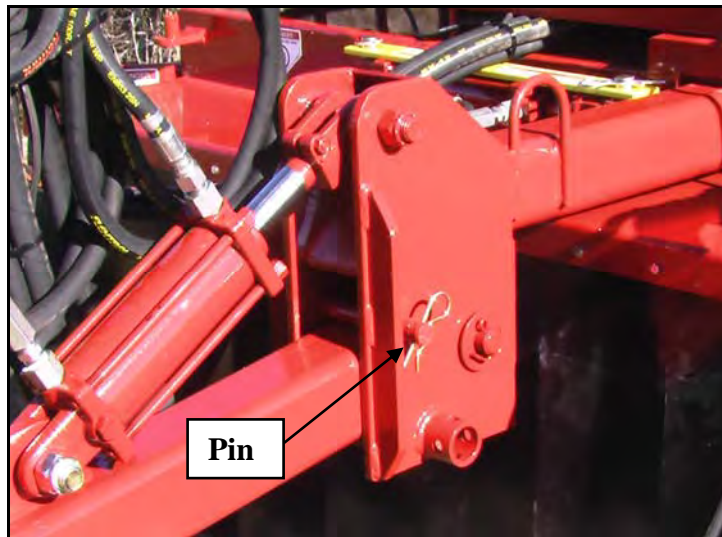


Figure B

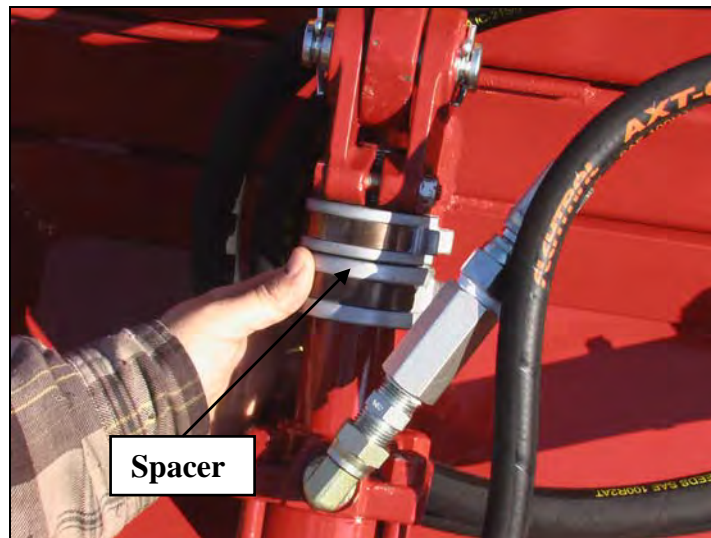


Figure C

Transport and Operate



Before Transporting Machine, Be sure to install cylinder lock as seen in figure A.

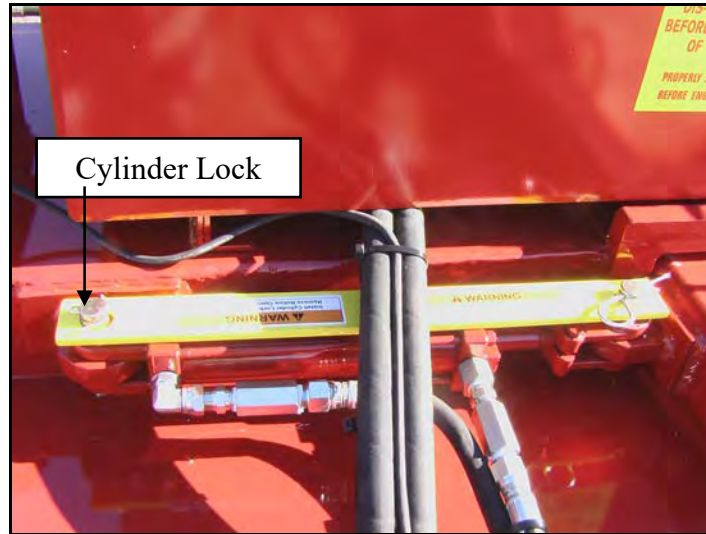


Figure A



Before Operation of Machine, remove cylinder lock from cylinder as seen in figure B.

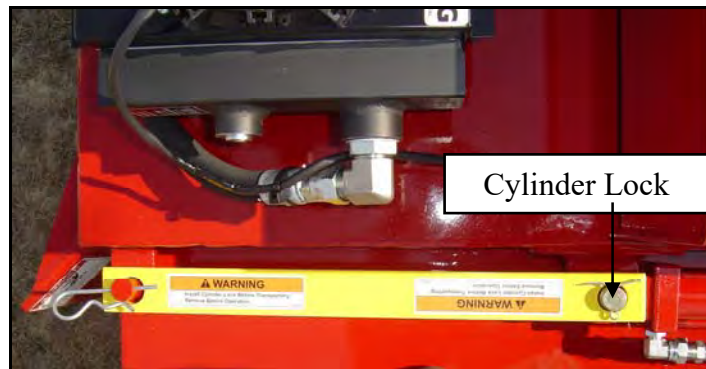


Figure B

LUBRICATION

HYDRAULIC FLUID

The hydraulic fluid is a vital component of the system. Low levels may cause overheating and damage to hydraulic components. The hydraulic system holds approximately 50 gallons. The oil level in the tank should come to within four inches of the top of the tank. If it becomes necessary to add hydraulic fluid, use petroleum based anti-wear hydraulic oil with ISO 68 viscosity grade AW 68. Oil temperature should not exceed 180 degrees Fahrenheit. In the event that components may need replacing, the hydraulic oil should also be replaced.

CAUTION: Always look for hydraulic leaks with the tractor's engine off. Wear hand and eye protection. Use cardboard or wood instead of your hands to search for a leak's source.

Grease the following points lightly each 50 hours and before storage.

1. Hydraulic Tongue Pivot Points
2. Axle Pivot Points
3. Cylinder Shaft Bearings

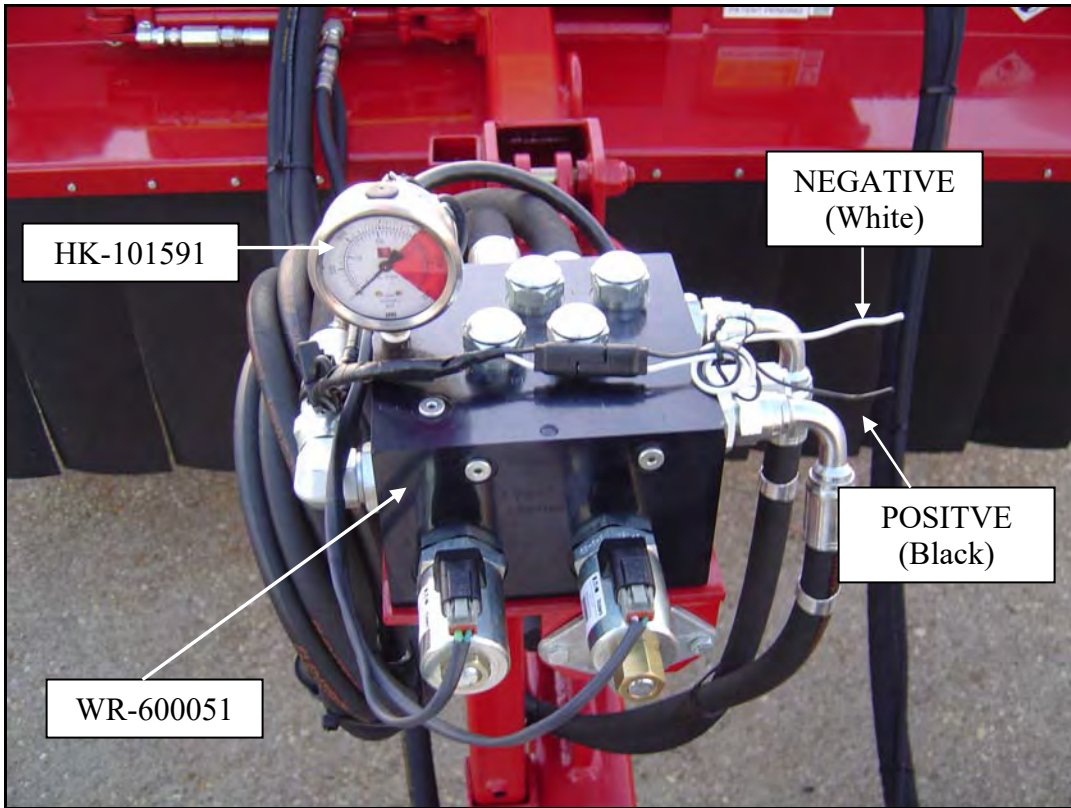
Grease all chains and bearings after each use. Change the oil filter every six (6) to twelve (12) months depending on usage.

ATTENTION: Be sure to keep drive chain well lubricated and free of obstructions to insure proper operation.

PARTS

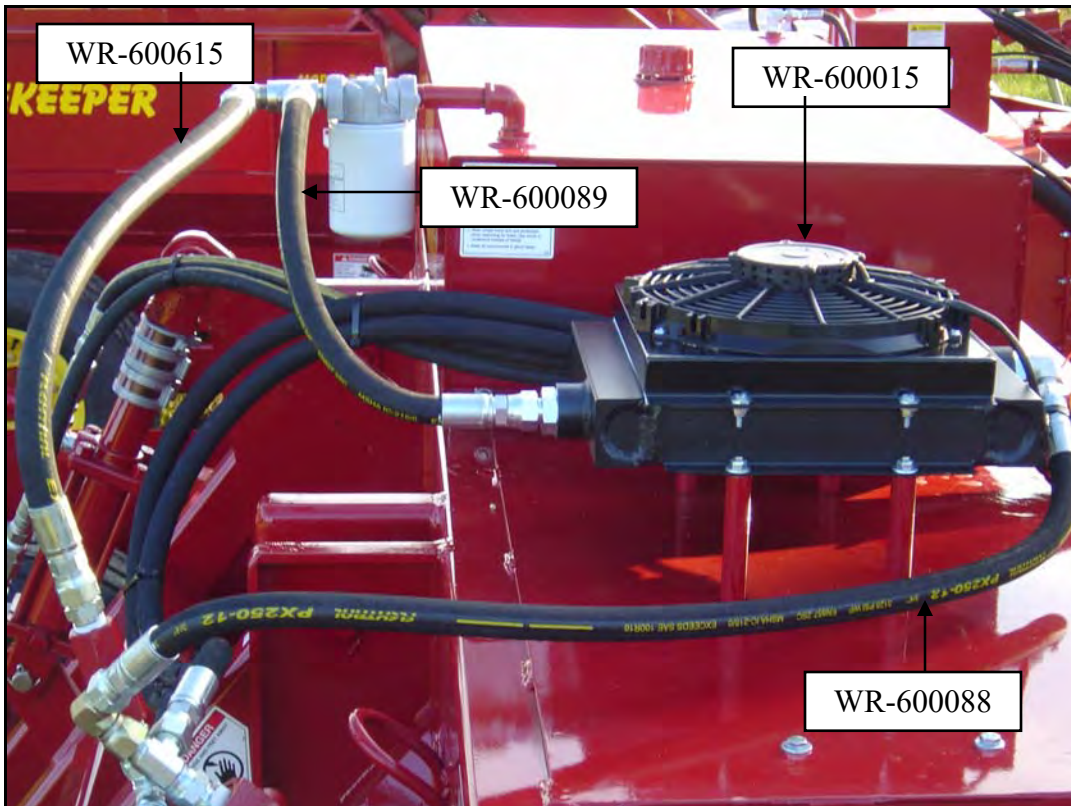


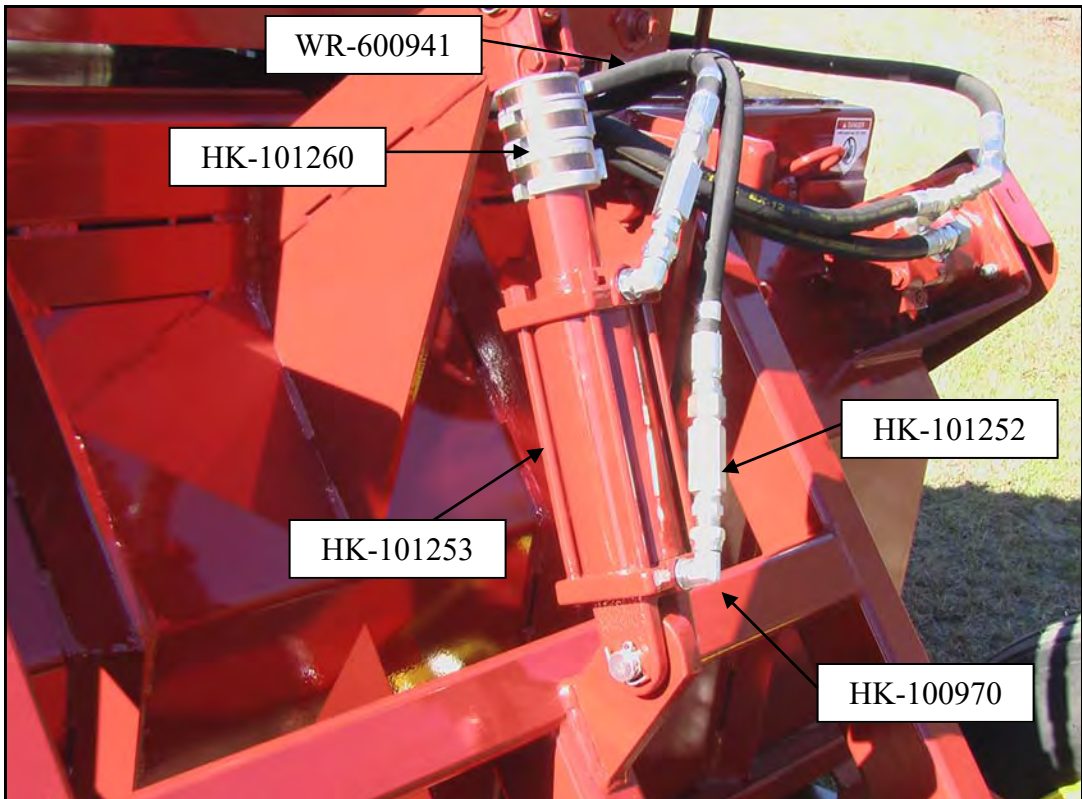
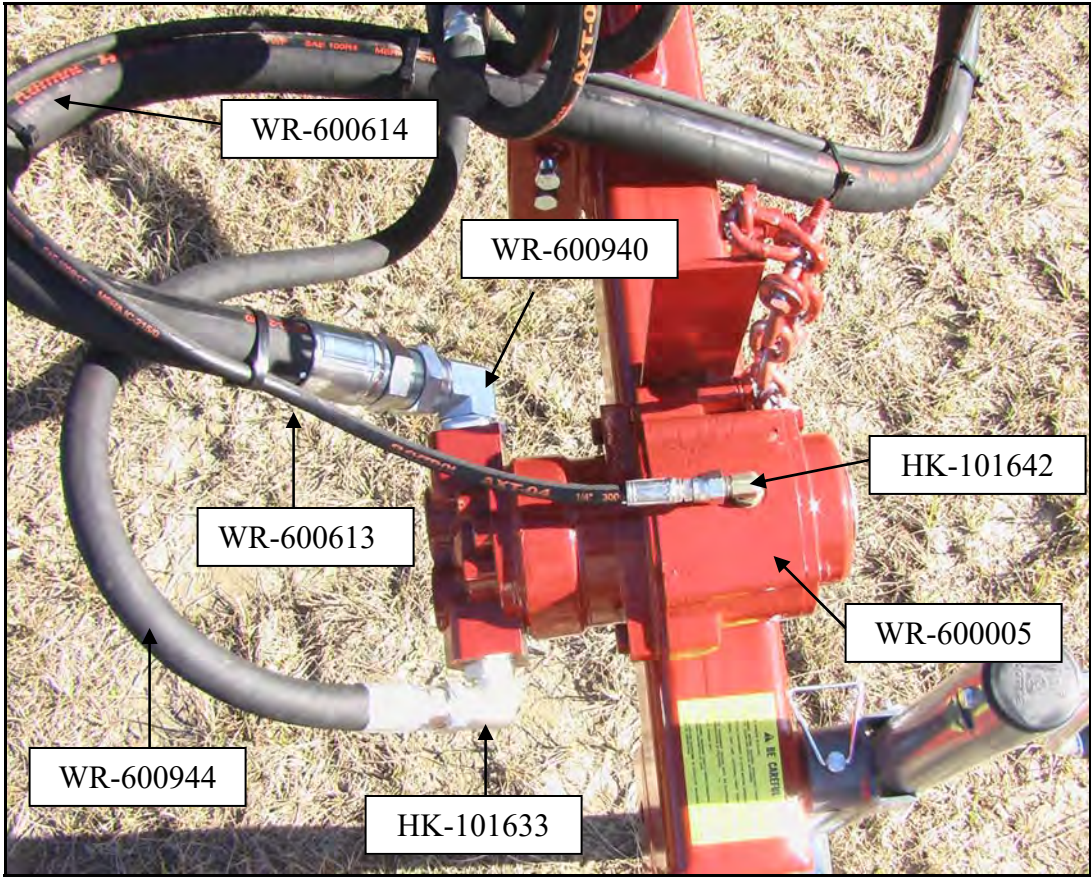
Jack Stand (HK-101470) Rubber Shield (WR-600006) Blade (WR-600401)

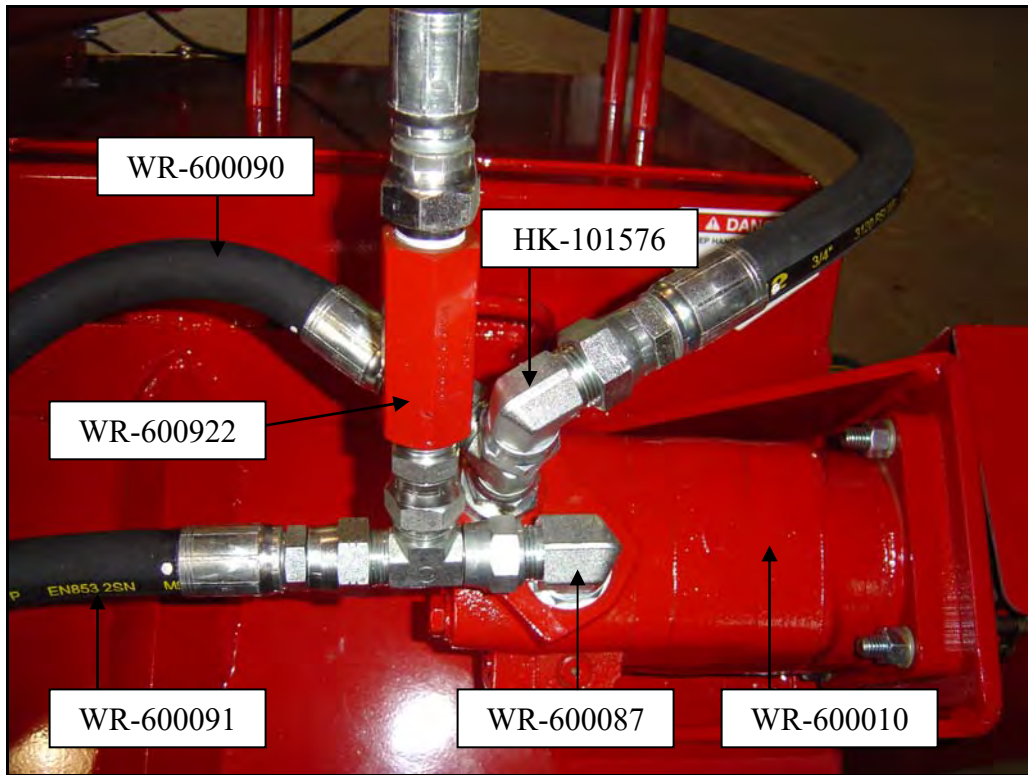


Control Valve (WR-600051)

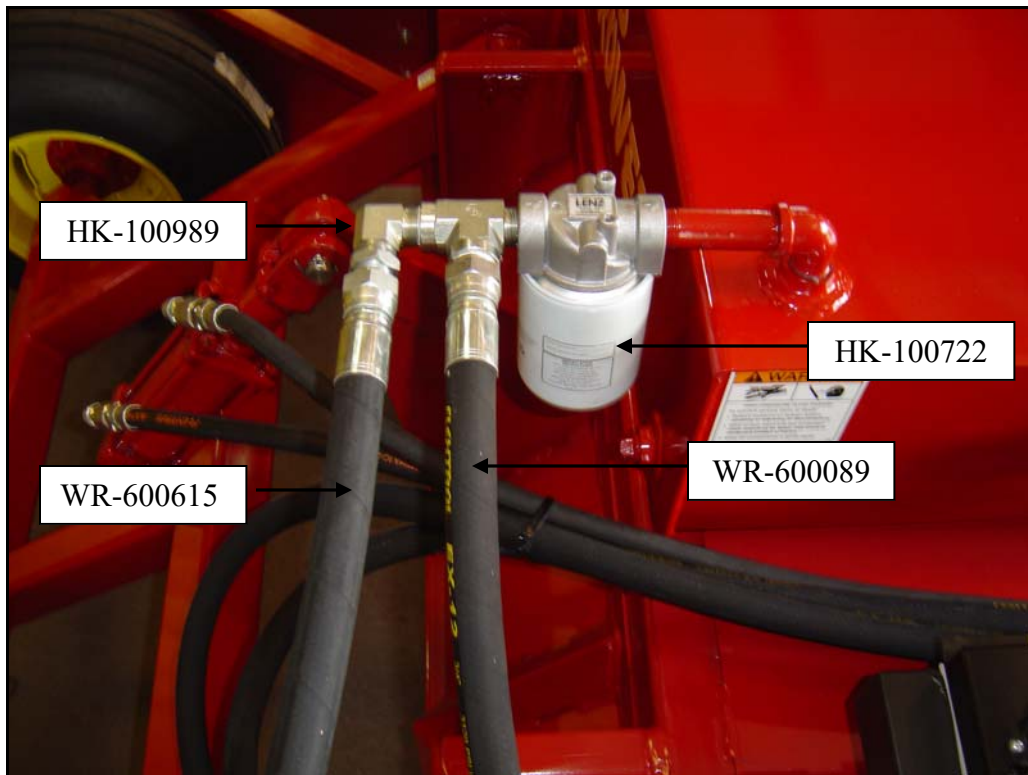
Gauge (HK-101591)



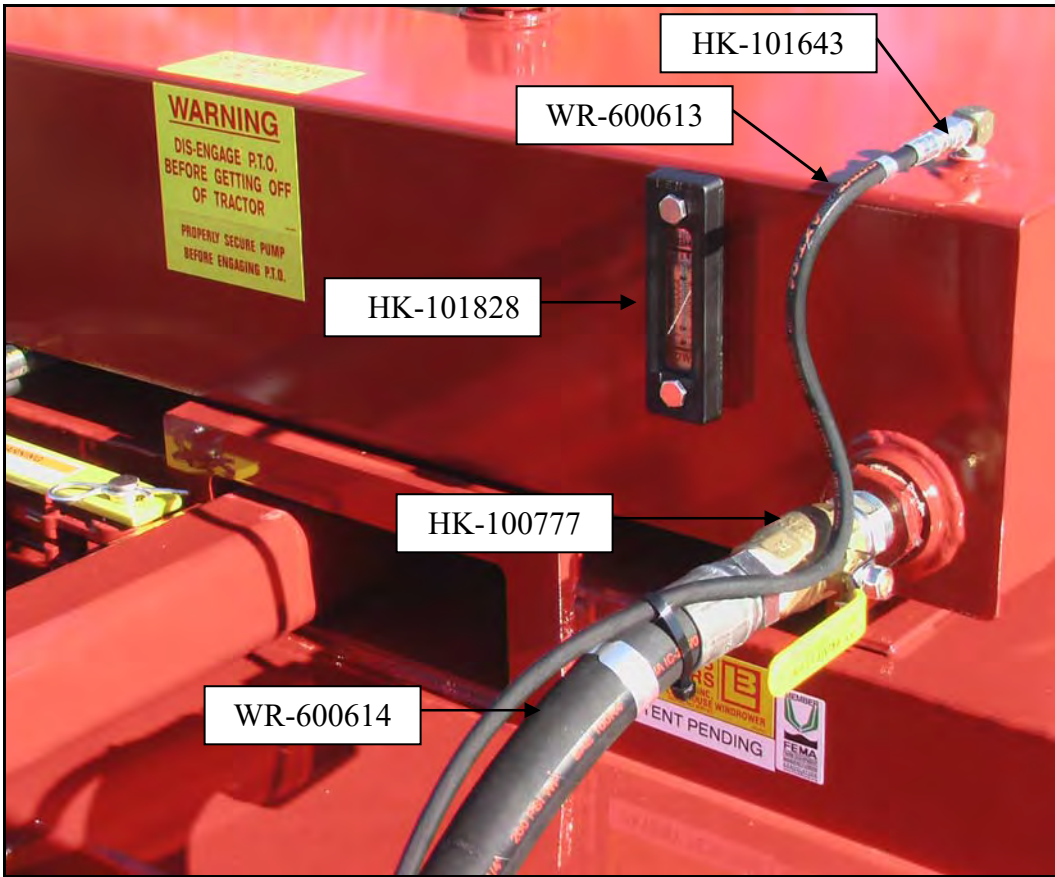




Cylinder Motor (WR-600010)



Filter Assembly (HK-100722)

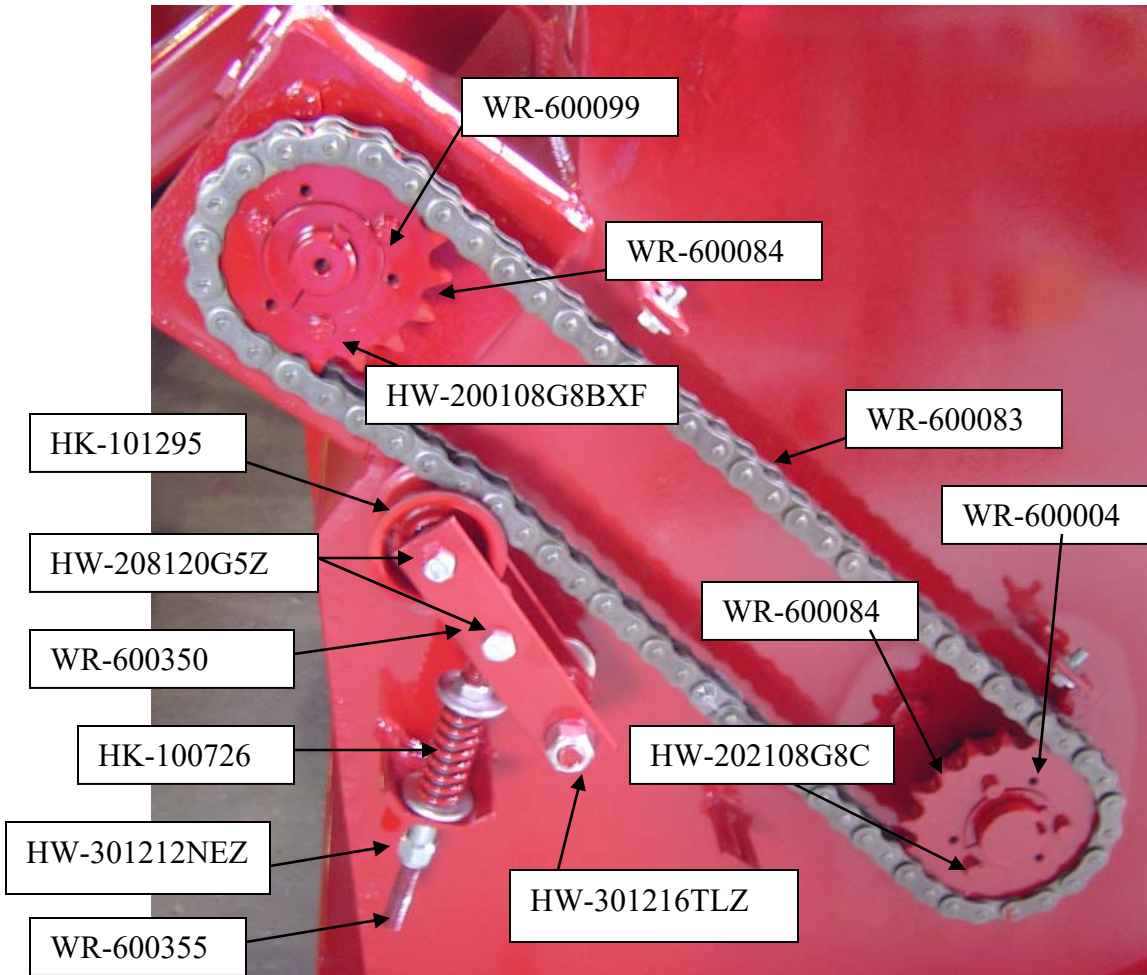


Level Temperature Gauge (HK-101828)

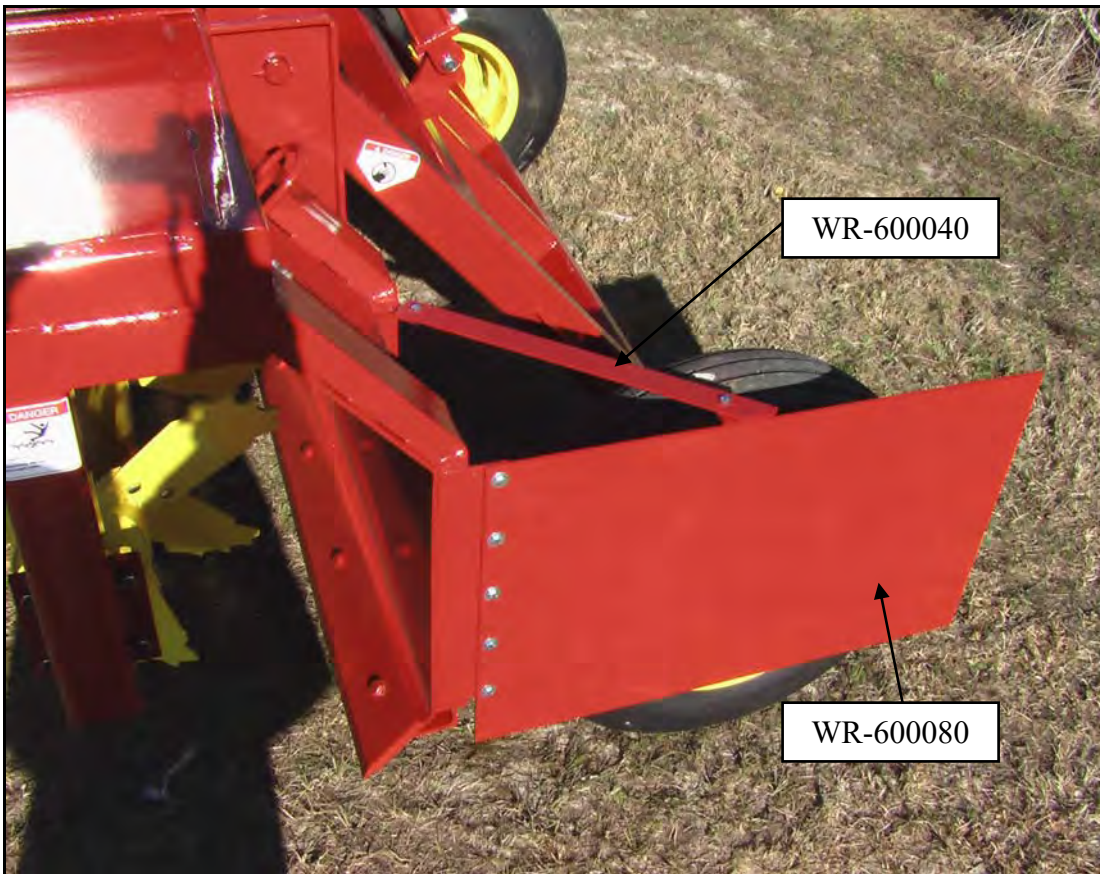
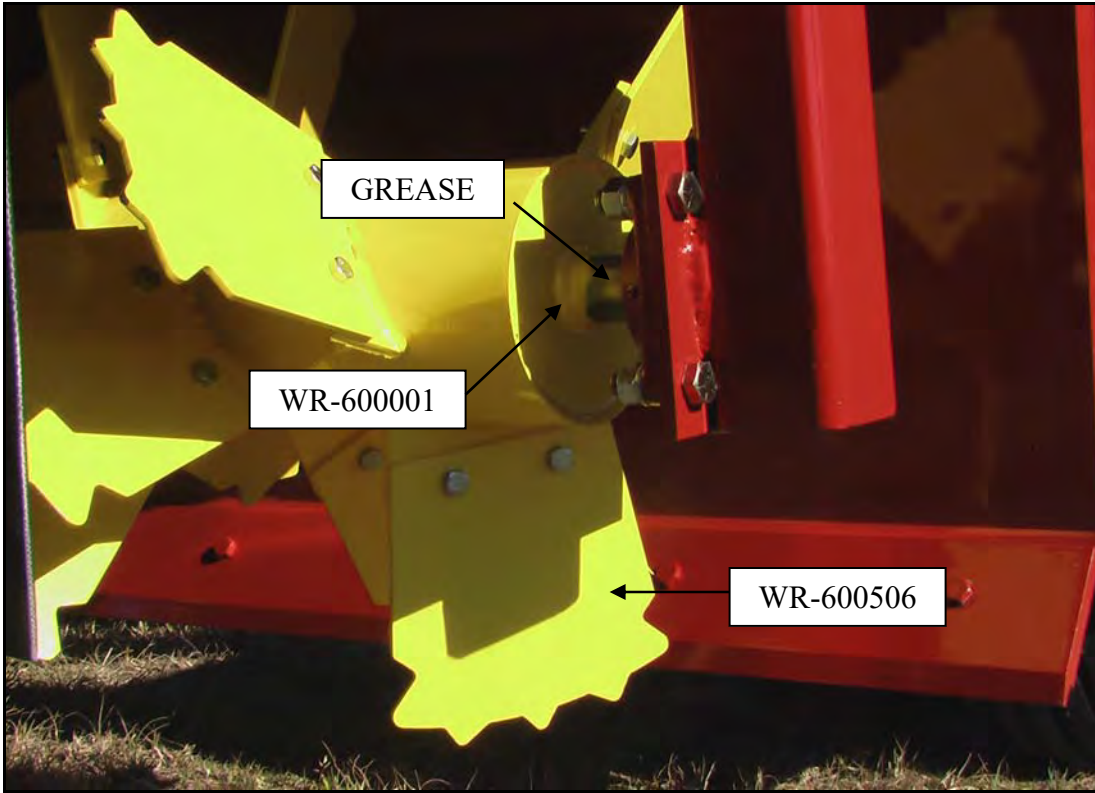


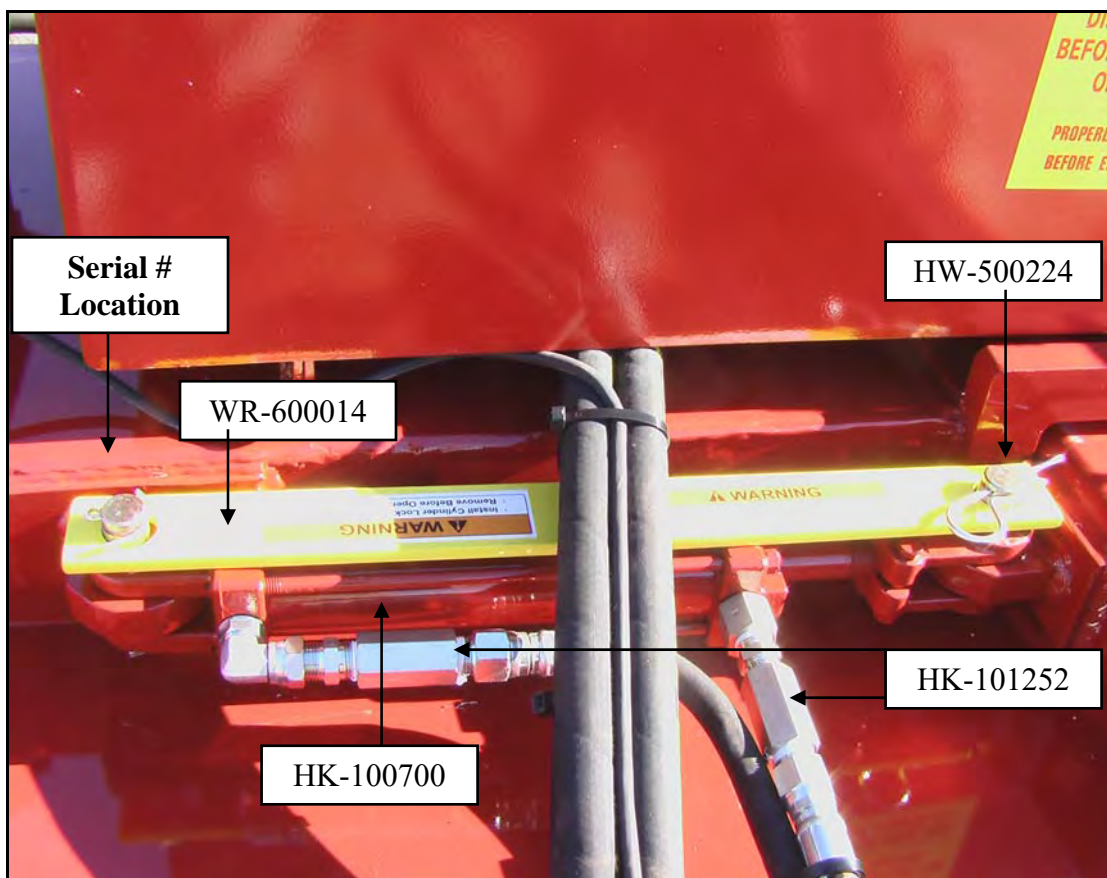
Remove shield to lubricate chain

HK-101827



| | |
|----------------|---|
| WR-600099 | Motor Bushing |
| WR-600084 | Motor Sprocket |
| WR-600084 | Cylinder Sprocket |
| WR-600004 | Cylinder Bushing |
| WR-600083 | #80 Roller Chain 67Pitches + 1 Connecting Link |
| WR-600350 | Tension Arm |
| WR-600355 | Adjustment Rod |
| WR-600359 | Tension Spring Guard (Not Shown, <i>Conduit</i>) |
| HW-301216TLZ | Nut, Top Lock, Hex, 3/4-10NC, Zinc Plated |
| HW-325216 | 3/4, USS, Flat Washer, Zinc Plated |
| HW-301208SC | Nut, Stover Lock, Hex, 1/2-13, Cadmium Plated |
| HW-208120G5Z | Bolt, Hex Head, 1/2-13 x 3" LG |
| HW-301212NEZ | Nut, Nylon Insert Lock, Hex, 5/8-11 |
| HW-300208ZG5 | Nut, Hex, 1/2-13 |
| HW-325208Z | 1/2, USS, Flat Washer Zinc Plated |
| HK-100961 | Shim-Spacer |
| HK-101295 | Idler |
| HK-100726 | Spring |
| HW-200108G8BXF | Bolt, Hex Head, 1/4-20NC X 1-1/2 LG, G8 |
| HW-202108G8C | Bolt, Hex Head, 5/16-18NC x 1-1/2LG, G8 |





DECALS



HK-100919



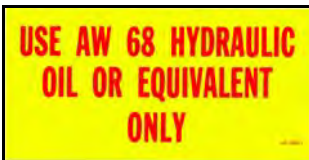
HK-100916



HK-100899



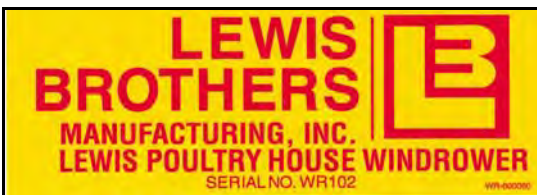
HK-100912



HK-100911



HK-100910



WR-600060



WR-600061



WR-600063



HK-100906



HK-100908



HK-100907



HK-100918



HK-101669



HK-101584



HK-100922