



LEWIS SPREADER BODY OWNER / OPERATOR MANUAL



MODEL # SD-1 SPREADER BODY

Manufactured by: **LEWIS BROTHERS MANUFACTURING, INC.**
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1-29-14

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 Spreader Body.

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 Spreader Body. 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 Spreader Body 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 9. 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 Spreader Body. Lewis repair parts and optional equipment should be ordered through your Lewis Brothers' Dealer.

Operators should thoroughly inspect the Spreader Body before and after each use. All chains and 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** allow 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.
-  **DANGER** Chock wheels and block up head of machine securely prior to working under machine. Failure to do so may result in serious injury or death.
- **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

Spreader Body Model # SD-1

Overall Height	60 inches
Overall Width	84 inches
Overall Length	22 Feet
Weight (unloaded)	3600 lbs.
Capacity	260 cu. ft.
Tires (Single Axle) (Tandem Axle)	12 L x 16 9.5 L x 15
PTO Horsepower Required	50 -60 HP
Spread Width	18 – 25 feet
Application Rate	Adjustable
PTO Hydraulic Pump	21 gpm
Tire Pressure	50 psi
Hydraulic Oil	AW 68
Oil Reservoir Capacity	20 gallons

SETUP AND OPERATION

MACHINE SETUP

TRACTOR SETTINGS

The Lewis Spreader Body is designed to be operated at 540 rpm PTO. If your tractor has an option of a 540 or 1000 rpm PTO, you should install the 540 shaft.

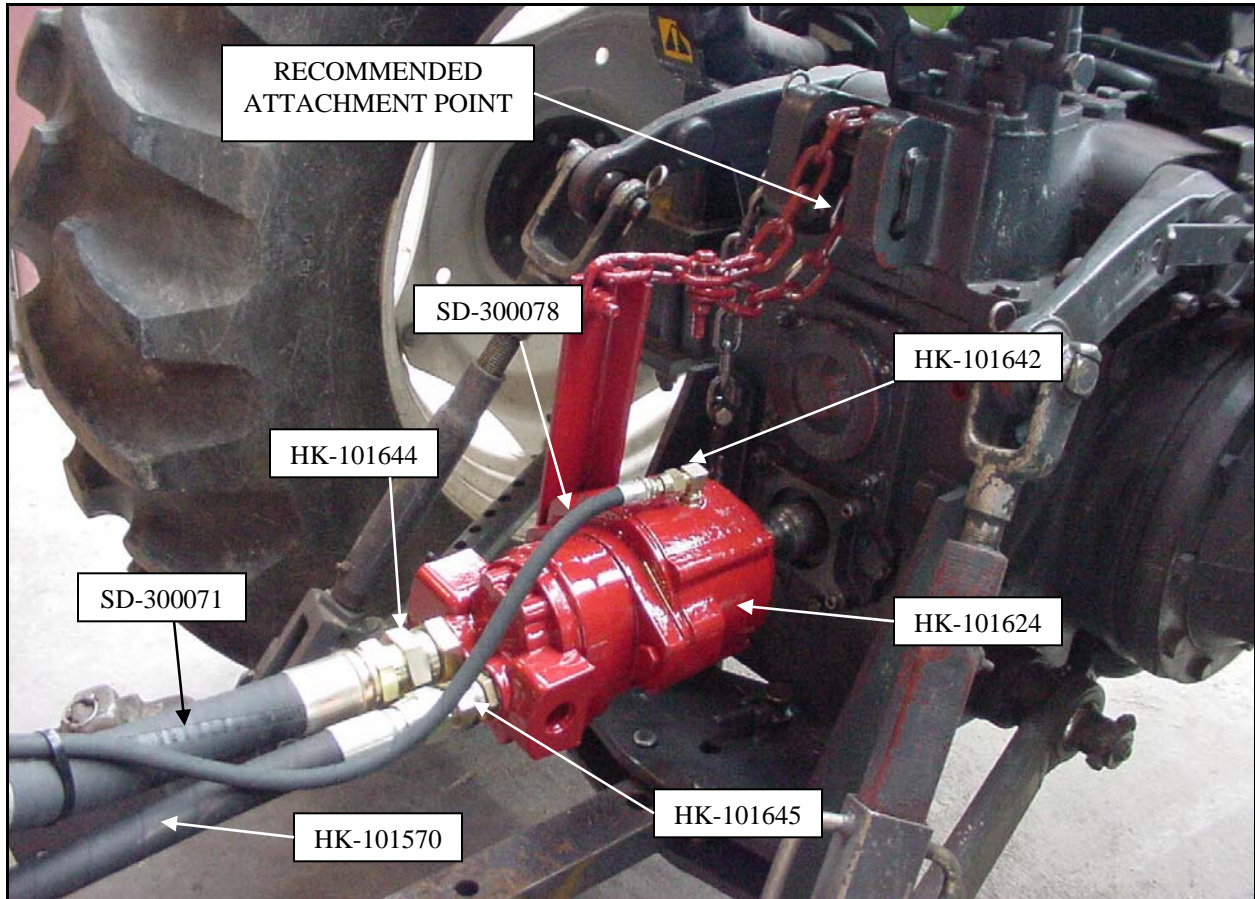


Figure 1

ATTACHING SPREADER BODY TO THE TRACTOR

Attach the Spreader Body to the tractor's fixed drawbar using a heavy duty hitch pin. Next, attach the hydraulic pump to the tractor PTO shaft. (Figure 1) 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. (See figure 1) 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.

Once the pump is properly installed on the PTO shaft, the spreader body is ready to begin operation.

The Lewis Spreader Body is designed to operate with the tractor PTO turning within a range of 500 – 540 rpm for optional performance. 540 rpm is the most desirable speed and will produce the maximum flow and pressure from the pump.

The material application rate can be controlled by adjusting the control valve located at the rear of the machine. (Figure 2) By increasing the speed of the unloading chain, the operator can increase the amount of material being applied. The spreading can be increased or decreased by adjusting the tractor PTO speed.

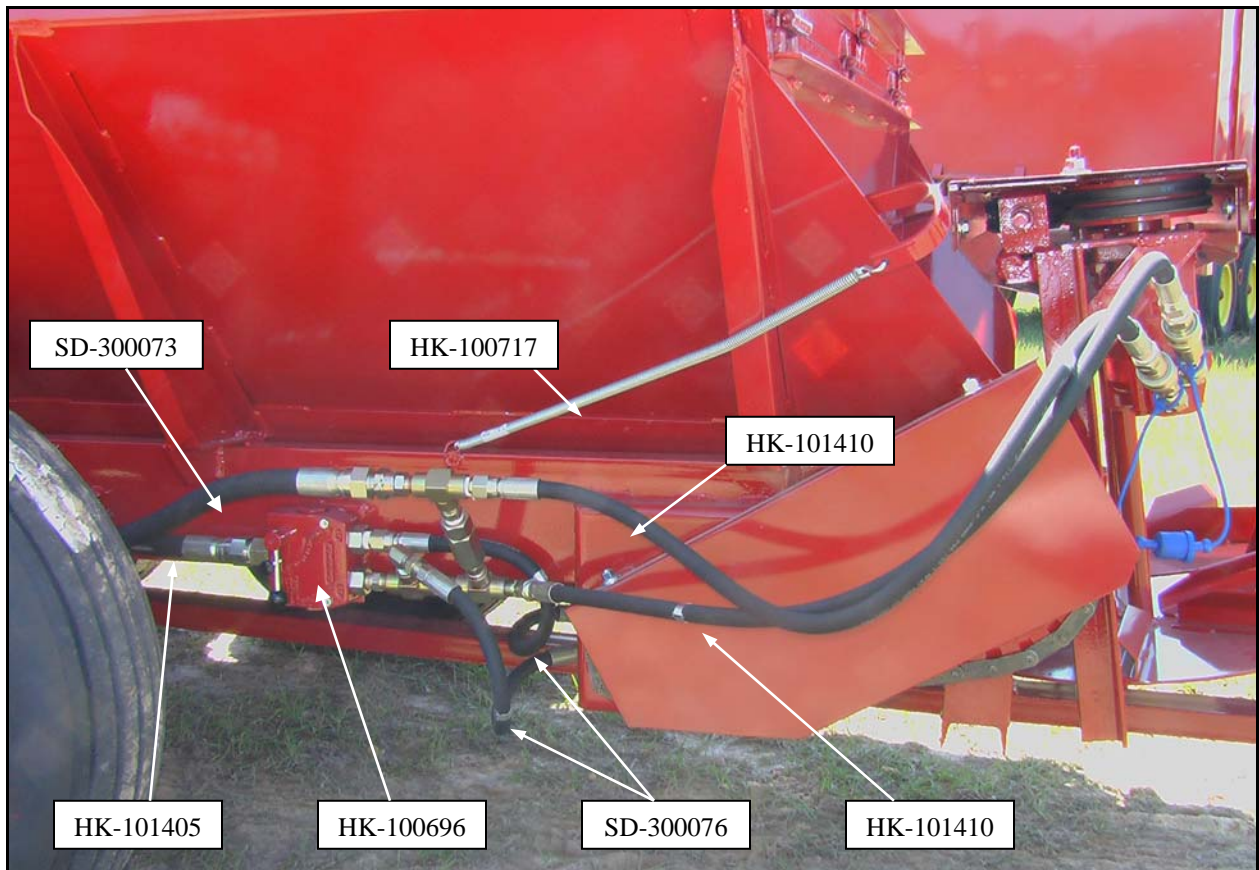


Figure 2



TOWING AND TRANSPORTING

A tractor of sufficient weight and power is required to both pull and control a Lewis Spreader Body over the terrain in the given area of operation. A tractor with a minimum of 50 PTO horsepower is required for proper operation of the Lewis Spreader Body. In order to have full control, your tractor must be able to maintain traction under all turf or surface conditions. Additional weights may be required to the front of the tractor to avoid unstable towing conditions.

If it becomes necessary to tow the Spreader Body for extended distances the following is recommended. Store the hydraulic pump on the support pin located on the tongue and secure it with the torque bar chain. Tie up all hoses to prevent them from dragging or becoming damaged. Tongue weight for towing is approximately 1300 to 1500 lbs. The equipment used for towing must be heavy enough to pull the Spreader Body, but more importantly must be equipped to safely stop under the additional load. Towing speed should not exceed 25 mph.

Maximum caution should be maintained at all times when transporting the Lewis Spreader Body.

STORAGE

STORAGE

After each use, the Lewis Spreader Body should be washed down thoroughly removing all litter, inside and out. After washing, treating with a disinfectant is recommended in order to kill any remaining bacteria. The next step is treating the machine with soluble oil to protect it from rust and corrosion. One product that meets these requirements is called LPS#3. You may find this or other similar products at your Lewis Poultry Housekeeper Dealer, tractor dealerships or farm supply stores. It is important to remember that all chains must be properly lubricated before and after each use and especially before storage.



When washing the Lewis Spreader Body, never allow a high-pressure water stream to come in contact with bearings or idler seals. Water can be forced into the bearing and will cause premature failure.

Check all safety decals and make any necessary replacements. Decals may be obtained from your Lewis Dealer.

MAINTENANCE

MAINTENANCE

Chain Adjustments

Periodical adjustments may be necessary to the unloading chain. Remove excess slack in the unloading chain by adjusting the front shaft assembly. (figure 3) Be sure that both sides are adjusted equally. Grease all bearings after each use, being careful not to over-grease. Spray lubricant over machine after each use to protect machine from rust.

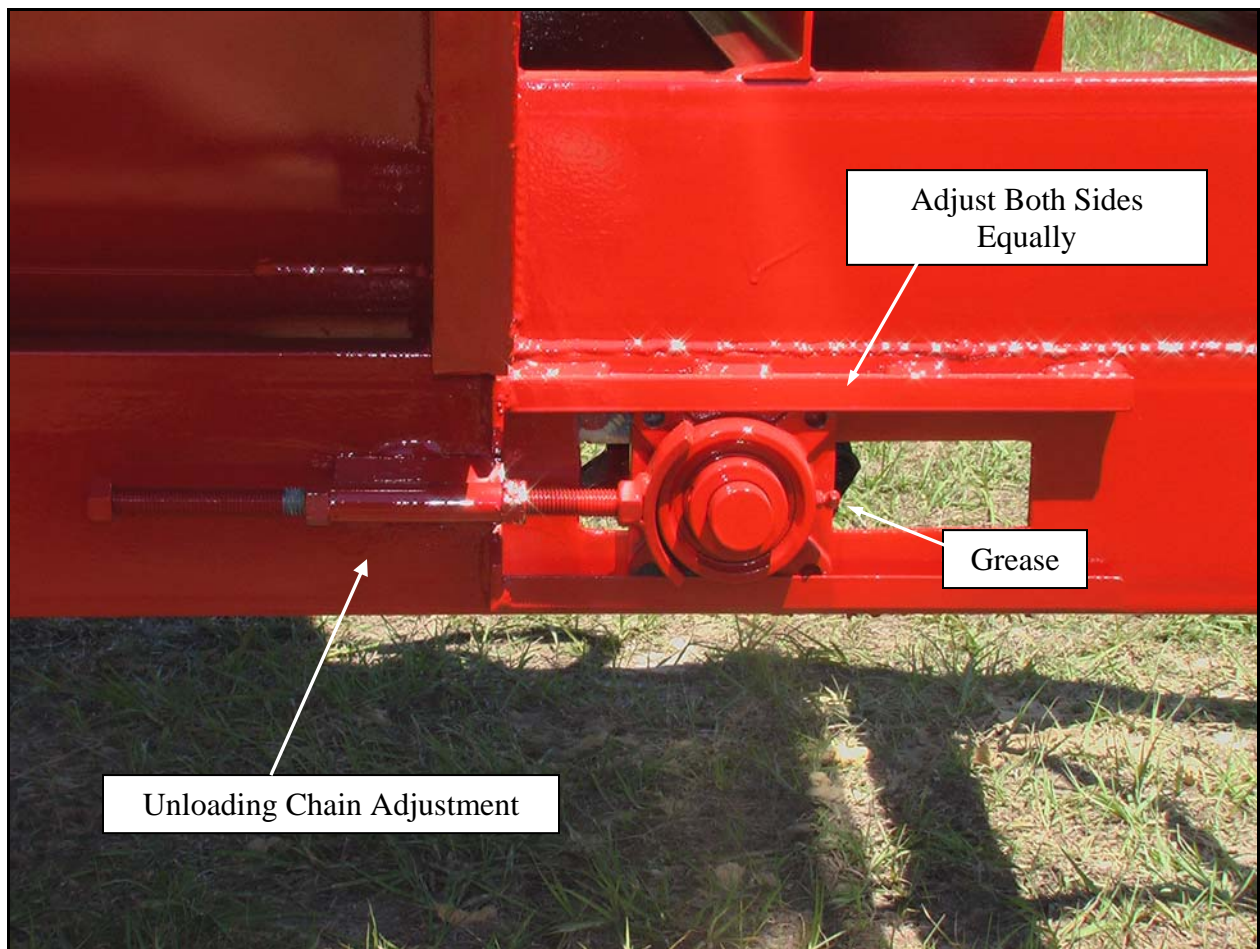


Figure 3

DECALS



HK-100908



HK-101669



HK-100918



HK-100906



HK-100907



HK-100916



HK-100919



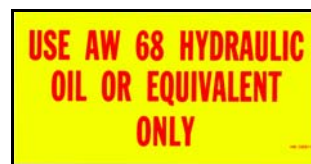
HK-100912



HK-100899

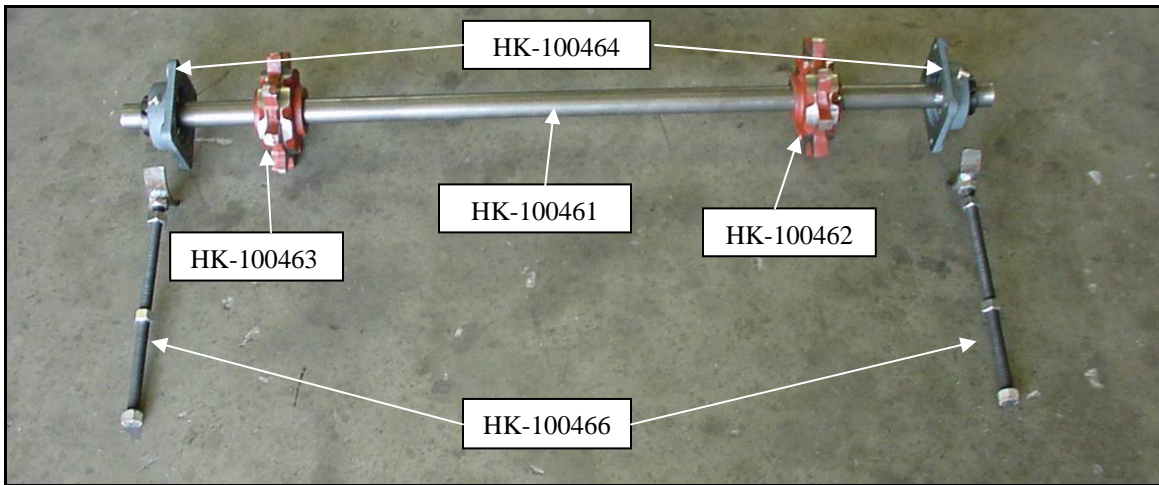


HK-100910



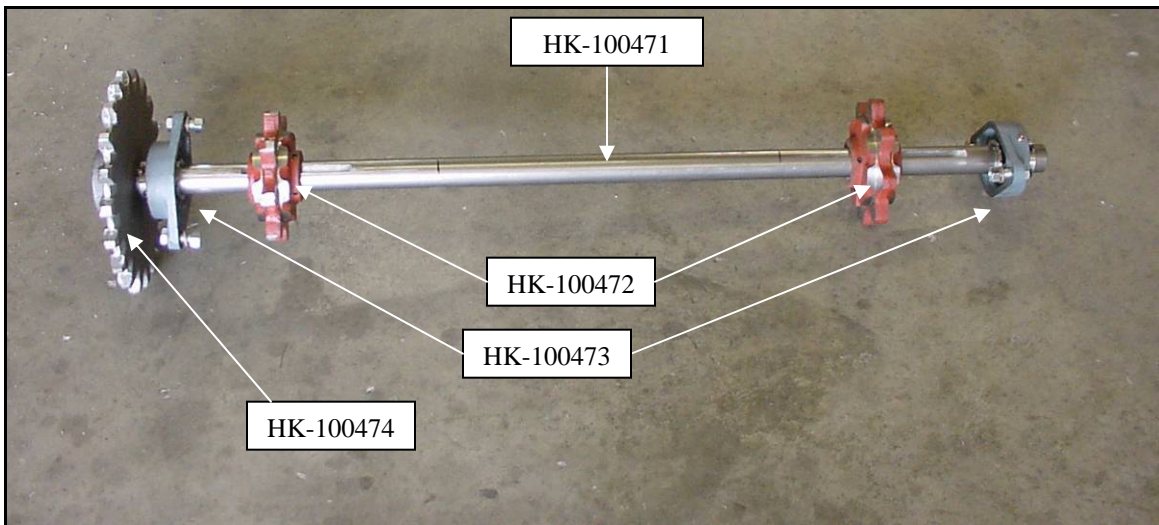
HK-100911

PARTS



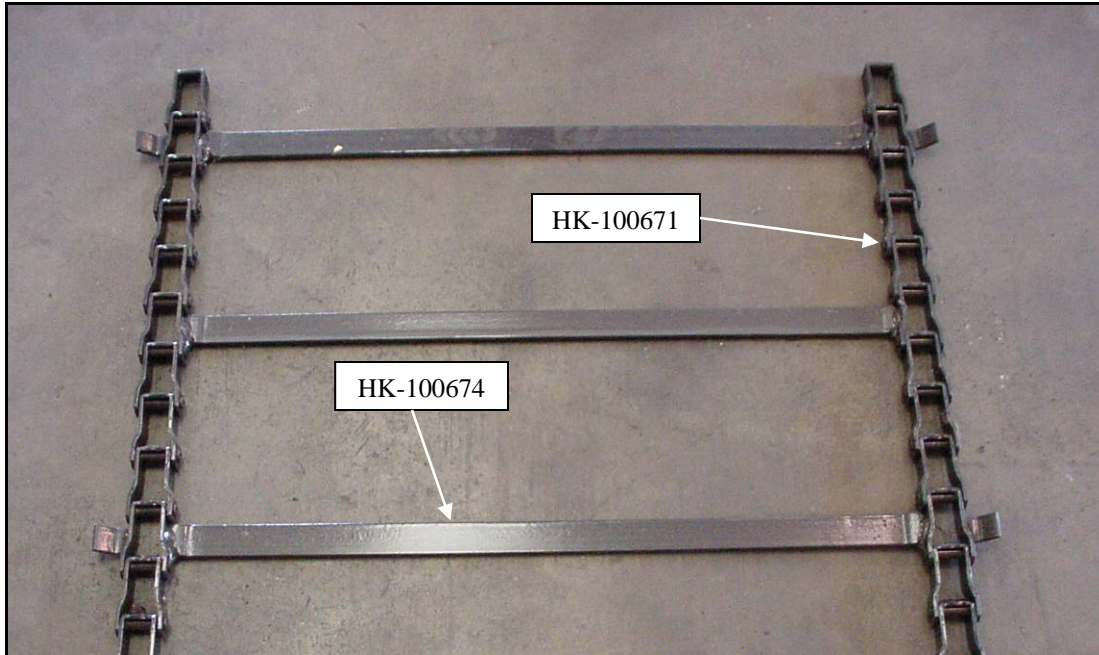
Front Unloading Shaft Assembly (HK-100460)

HK-100461	Shaft, Front Unloading
HK-100462	Sprocket With Grease Fitting
HK-100463	Sprocket With Set Screw
HK-100464	Bearing, Flange
HK-100466	Tensioning Rod Assembly



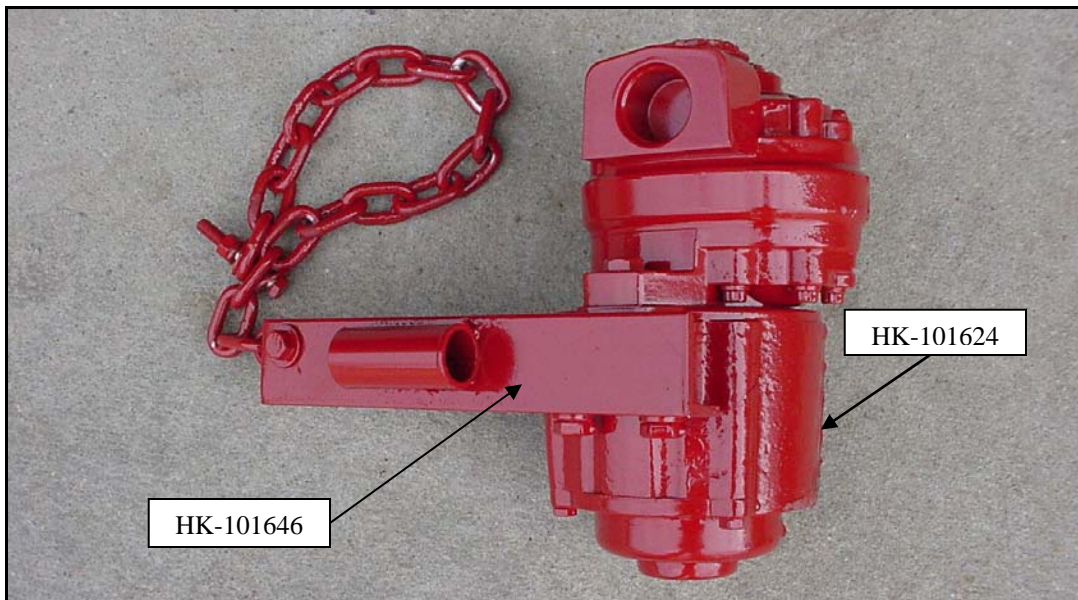
Rear Unloading Shaft Assembly (HK-100470)

HK-100471	Shaft, Rear Unloading
HK-100472	Sprocket
HK-100473	Bearing
HK-100474	Sprocket



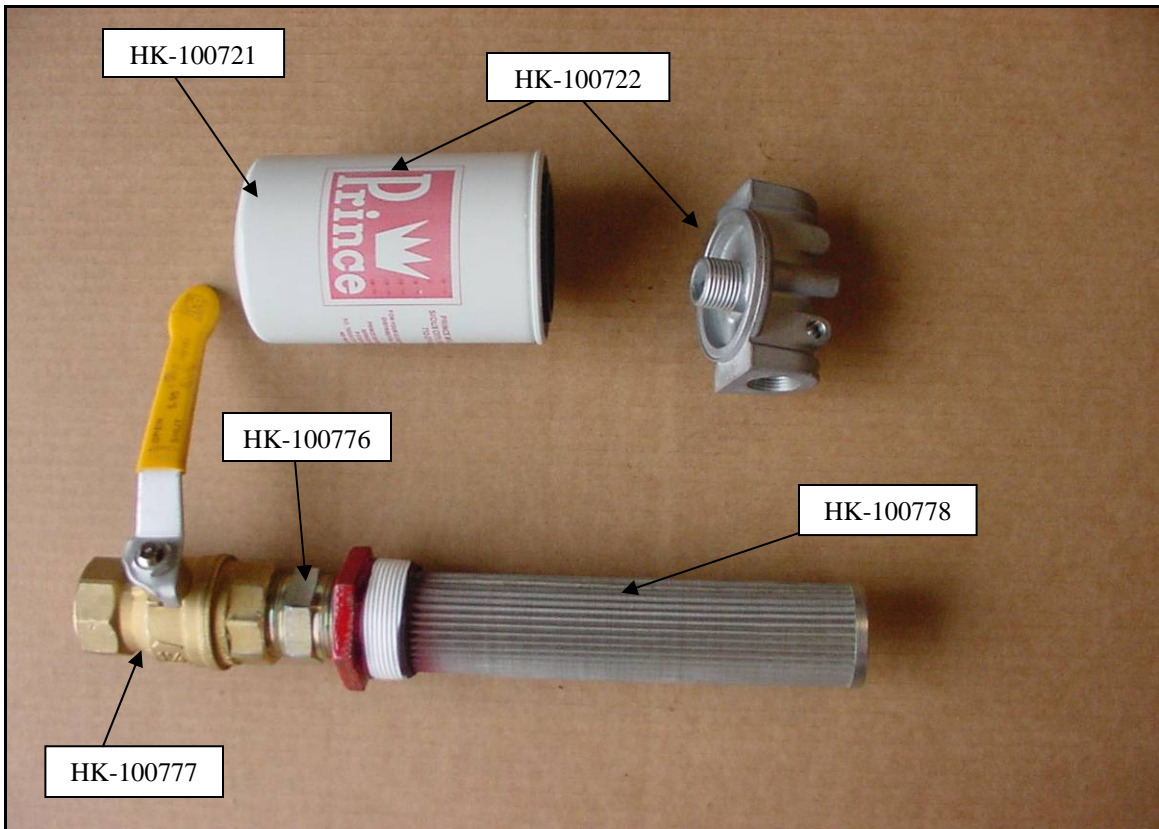
Unloading Chain (HK-101296)

HK-100671	Chain Link
HK-100674	Unloading Bar Assembly

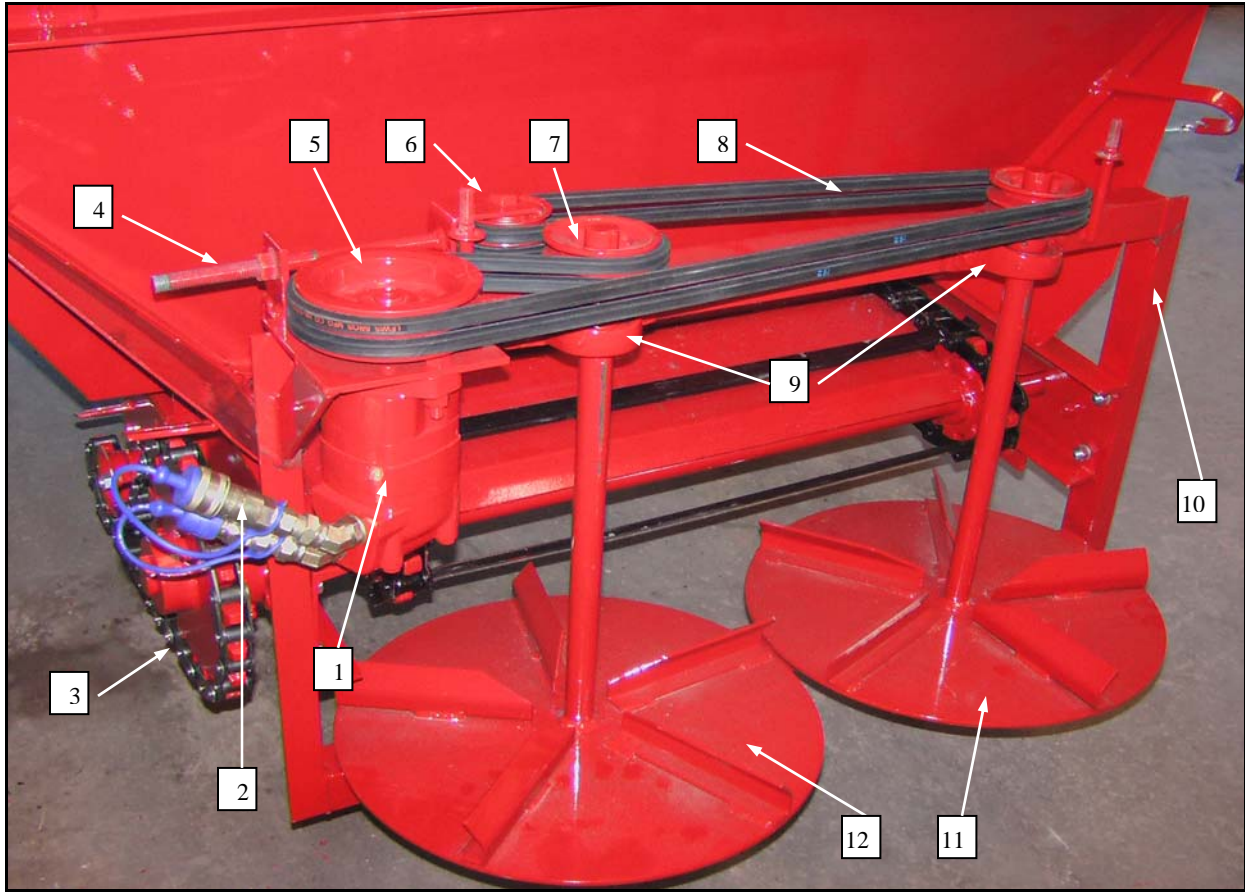


PTO Pump Kit (HK-101639)

Part Number	Description	Quantity
HK-101646	Torque Arm Weldment	1
HK-101624	Pump	1

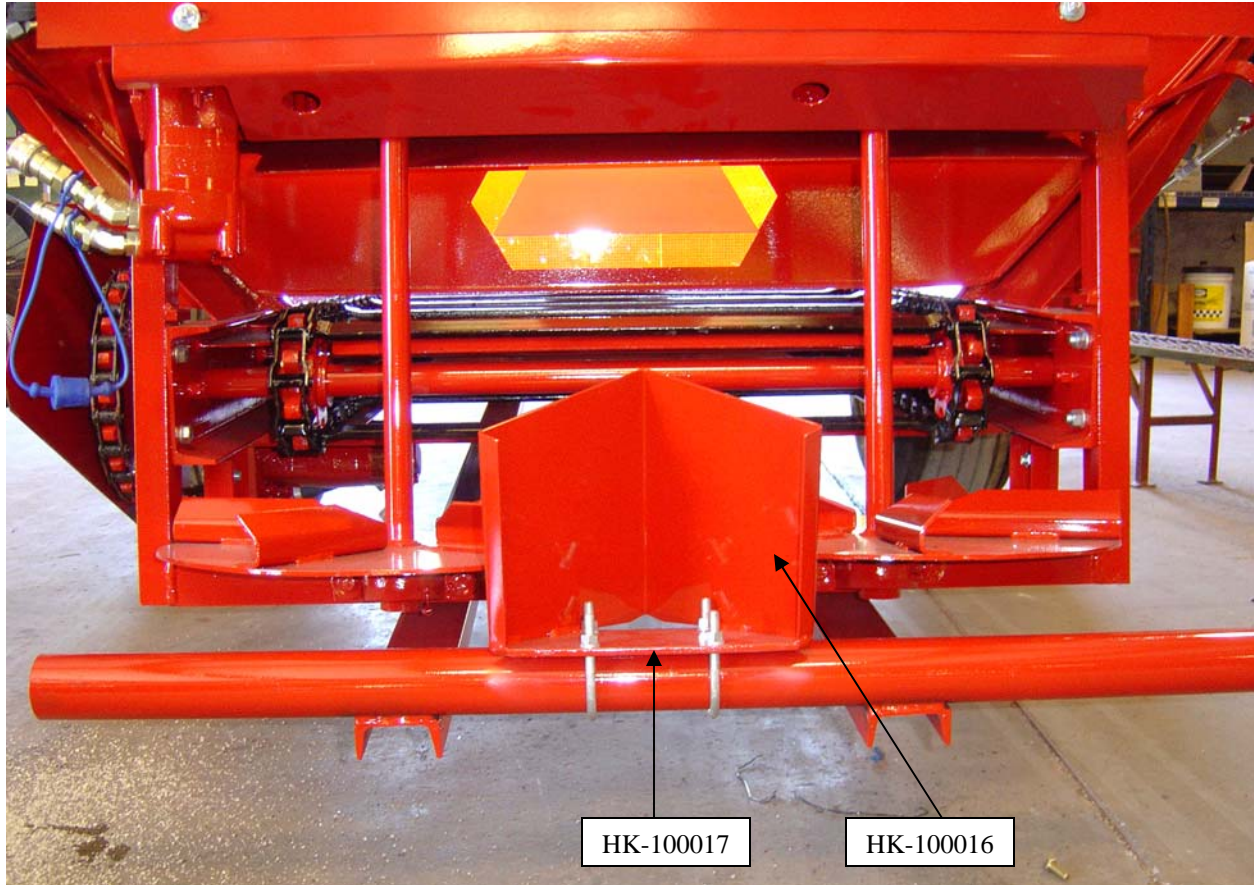


Part Number	Description	Quantity
HK-100722	Filter Assembly	1
HK-100721	Filter Replacement	1
HK-100776	Nipple 1-1/4 X 1-1/4	1
HK-100777	Ball Valve	1
HK-100778	Strainer	1



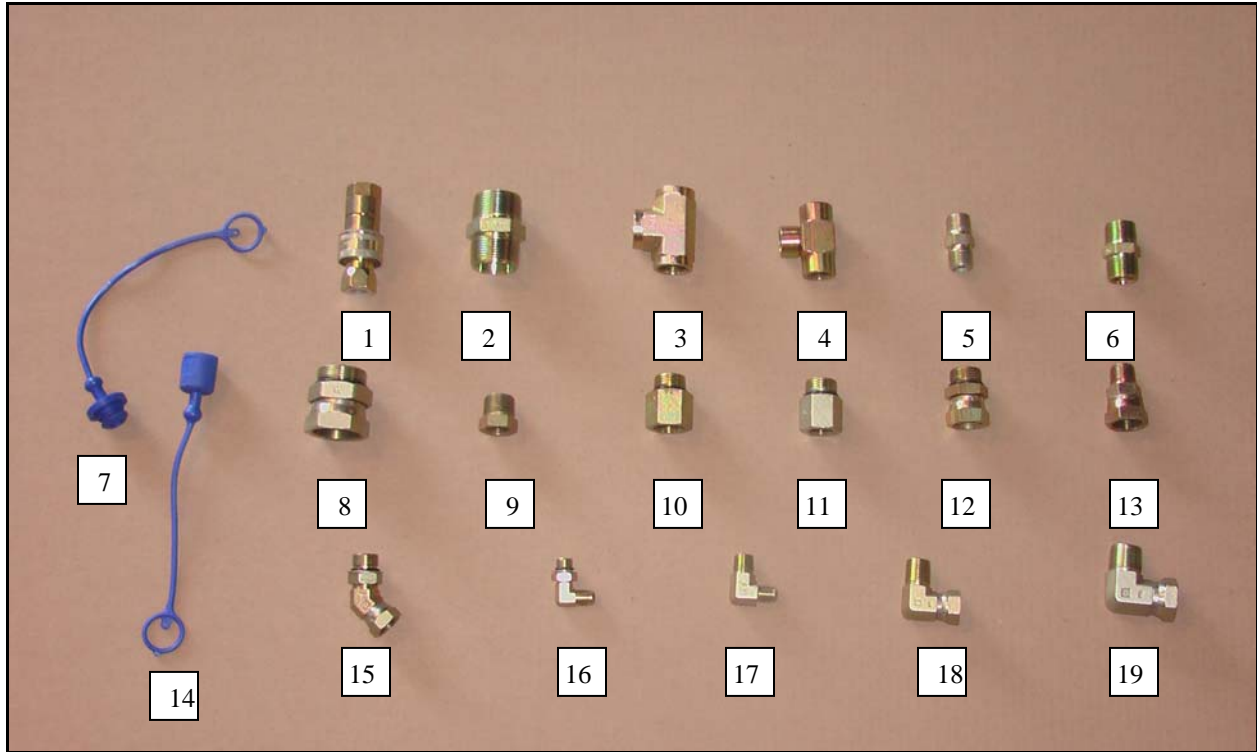
Spreader Assembly

Item #	Part #	Description
1	HK-100955	Hydraulic Motor
2	HK-100966	Quick Coupler (Kit)
3	HK-101299	Unloading Drive Chain
4	HK-100398	Idler Adjustment
5	HK-100555	Spinner Drive Motor Pulley
6	HK-100960	Spinner Idler Pulley
7	HK-100551	Spinner Fan Pulley
8	HK-100950	Belt
9	HK-100389	Bearing Assembly
10	HK-101333	Spinner Complete
11	HK-100408	R.H. Spinner Fan
12	HK-100412	L.H. Spinner Fan



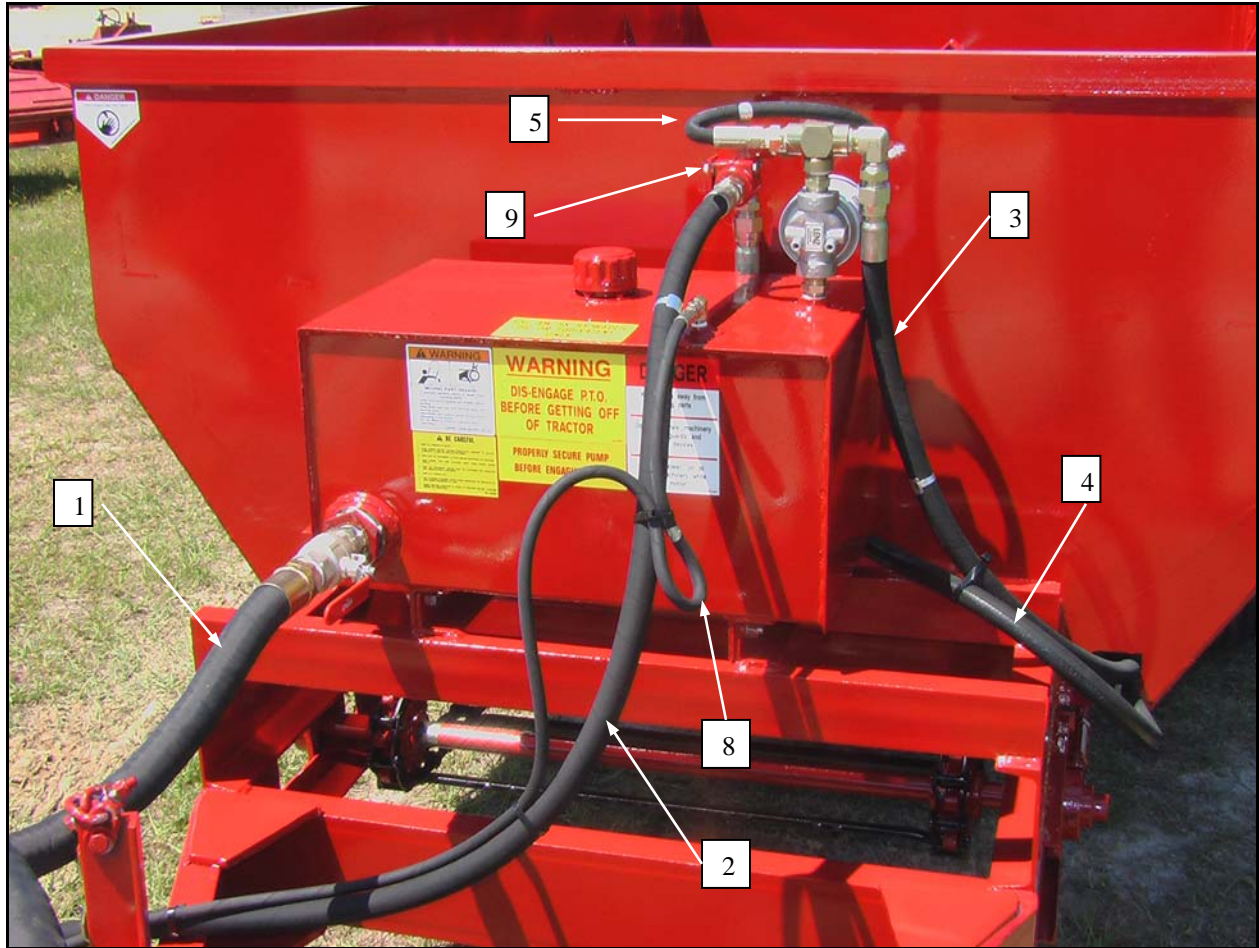
Flow Divider Weldment (HK-100015)

Item #	Part #	Description
1	HK-100016	Shield
2	HK-100017	Plate



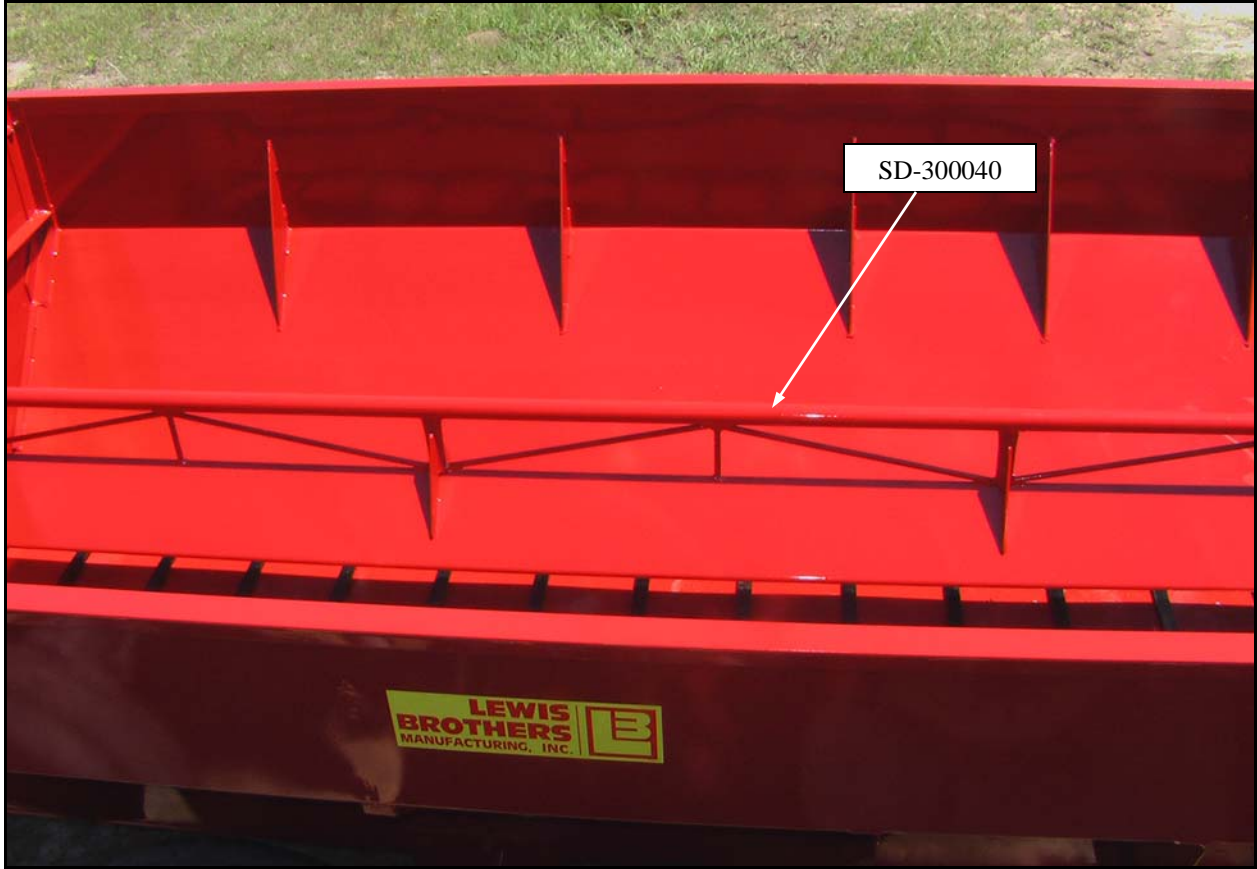
Fittings and Adapters

Item #	Part #	Description
1	HK-100965/HK-100964	2NS-12-NPT-male/NS-12-NPT-female
2	HK-100776	5404-20-20
3	HK-101438	5605-12-12-12
4	HK-100976	5605-08-08-08
5	HK-100963	5404-08-08
6	HK-100772	5404-12-12
7	HK-100994	TF12
8	HK-101644	6900-20-20
9	HK-100774	5406-12-08
10	HK-101441	6405-12-12
11	HK-101437	6405-12-08
12	HK-101645	6900-12-12
13	HK-101442	1404-08-12-SPL
14	HK-100993	TM12
15	HK-100962	6902-10-08
16	HK-101642	6801-06-06
17	HK-101582	2501-06-06
18	HK-100971	1501-08-08
19	HK-100989	1501-02-02



Hydraulic Hoses

Item #	Part #	Description
1	SD-300071	HX20-MP-108"
2	HK-101570	AX12-12MPX-96"
3	SD-300073	AX12-12MPX-165"
4	HK-101405	AX12-12MPX-170"
5	HK-101389	AX08-08MP-08MPX-20"
6	SD-300076	Unloading Motor, AX08-08MP-08MPX-23" (see figure 2)
7	HK-101410	Spinner Motor, AX08-08MP-08MPX-45" (see figure 2)
8	SD-300078	AX04-04FJ-110"
9	SD-300068	Relief Valve



Baffle Assembly