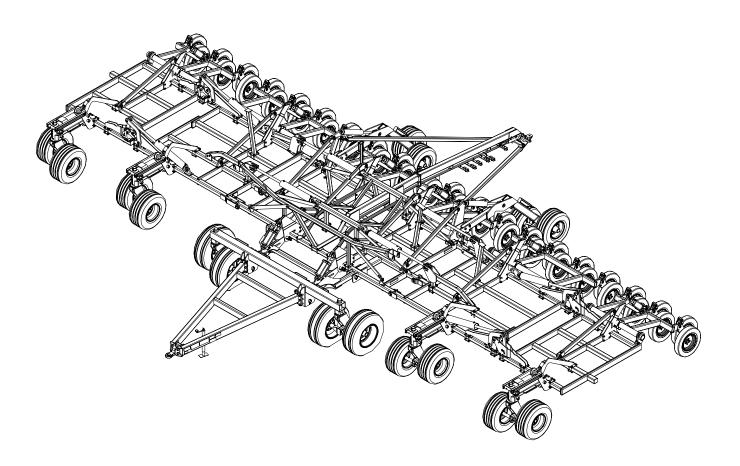
5015/6015 AIR TILL DRILL ASSEMBLY, OPERATORS & PARTS MANUAL



PERSONAL SAFETY IS IMPORTANT!

ALL PERSONNEL INVOLVED WITH THE ASSEMBLY AND/OR OPERATION OF THIS EQUIPMENT MUST BE INFORMED OF PROPER SAFETY PROCEDURES. OPERATOR'S/ ASSEMBLY MANUALS PROVIDE THE NECESSARY INFORMATION. IF THE MANUAL IS LOST FOR A PARTICULAR IMPLEMENT, ORDER A REPLACEMENT AT ONCE. OPERATOR'S AND ASSEMBLY MANUALS ARE AVAILABLE AT NO CHARGE UPON REQUEST.



Why is SAFETY important to you?

3 Big Reasons

Accidents Disable and Kill Accidents Cost Accidents Can Be Avoided

SIGNAL WORDS:

Note the use of the signal words **DANGER**, **WARNING** and **CAUTION** with the safety messages. The appropriate signal word for each message has been selected using the following guidelines:

DANGER

An immediate and specific hazard which WILL result in severe personal injury or death if the proper precautions are not taken.

WARNING

A specific hazard or unsafe practice which COULD result in severe personal injury or death if the proper precautions are not taken

CAUTION

Unsafe practices which COULD result in personal injury if proper practices are not taken, or as a reminder of good safety practices.

Remove all wires and arrange the parts conveniently.

NOTE: Always wear safety glasses or goggles and be careful when cutting wires and steel bands as they are under tension and will spring back when cut.

Wherever the terms "left" and "right" are used, it must be understood to mean from a position behind and facing the machine.

Lubricate all bearings and moving parts as you proceed and make sure they work freely.

Loosely install all bolts connecting mating parts before final tightening.

When tightening bolts, they must be torqued to the proper number of foot-pounds as indicated in the table unless specified. It is important that all bolts be kept tight.

On new machines, all nuts and bolts must be rechecked after a few hours of operation.

GRADE 2	GRADE 5			G	RADE	8
					\\\.\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
TORQUE IN FOOT POUNDS						
BOLT DIA	3/8	1/2	5/8	3/4	7/8	1
HEX HEAD	9/16	3/4	15/1	1-1/8	1-5/1	1-1/2
UNC GR2	18	45	89	160	252	320
UNC GR5	30	68	140	240	360	544
UNC GR8	40	100	196	340	528	792
UNF GR2	21	51	102	178	272	368
UNF GR5	32	70	168	264	392	572
UNF GR8	48	112	216	368	792	840



TO AVOID INJURY AND/OR MACHINE DAMAGE:

- Refer to Operator's Manual for safety instructions.
- Do not stand or climb on machine when operating.
- Use clean hazard flashers and SMV sign when transporting.
- Observe highway traffic regulations.

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ASSEMBLY INFORMATION

When replacing a bolt, use only a bolt of the same grade or higher. Except in shear bolt applications, where you must use the same grade bolt.

Bolts with no markings are grade 2

Grade 5 bolts furnished with the machine are identified by three radial lines on the head.

Grade 8 bolts furnished with the machine are identified by six radial lines on the head.

All U-bolts are grade 5.



THIS SYMBOL USED TO CALL YOUR ATTENTION TO INSTRUCTIONS CONCERNING YOUR PERSONAL SAFETY.

BE SURE TO OBSERVE AND FOLLOW THESE INSTRUCTIONS

Abbreviations

ASSY	Assembly
BLD	Blade
BLT	Bolt
BRKT	Bracket
CTR	Center
CP	
(FF)	
GR	
HD	Heavy Duty
HDWE	Hardware
HLK	
LH	Left Hand
(MF)	Male Female
MF	
MTG	Mounting
NC	. National Course Thread
NF	National Fine Thread
NLK	Nylon Lock Nut
NPT	National Pipe Thread
PLW	Plow
RH	Right Hand
SS	Screw Stop
SST	Stainless Steel
TA	Tandem
TBP	Top Bypass
W/	
W/O	Without
WLDMT	Weldment
WSHR	Washer

SIGN-OFF FORM

The manufacturer of this product follows the general standard specified by the American Society of Agricultural Engineers (ASAE) and the Occupational Safety and Health Administration (OSHA). Anyone who will be operating and/or maintaining this equipment must read and understand ALL Safety, Operation, and Maintenance information presented in this manual.

Do not operate or allow anyone else to operate this equipment until such information is reviewed. Annually review this information before the season start-up.

Make periodic reviews of SAFETY and OP-ERATION a standard practice for all your equipment. We feel that an untrained operator is unqualified to operate this machine.

A sign-off sheet is provided for all personnel who will be working with equipment to indicate that they have read and understood the information in the operators manual and have been instructed in the operation of the equipment.

DATE	EMPLOYEE'S SIGNATURE	EMPLOYER'S SIGNATURE

TO THE OWNER

MODIFICATIONS

The 5015 and 6015 AIR TILL DRILL has as standard equipment a clearance lighting package. If your unit is not equipped with this package, it can be ordered by contacting your local dealer or the factory directly.

It is the responsibility of the user to read the Operator's Manual and comply with the safe and correct operating procedures as pertains to the operation, lubrication and maintenance of the product according to the information outlined in the Operator's Manual.

If this machine is used by an employee or is loaned or rented, make certain that the operator(s), prior to operating, is instructed in safe and proper use and reviews and understands the Operator's Manual.

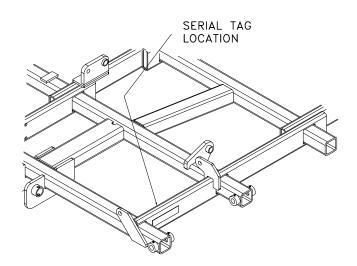
The user is responsible for inspecting his/her machine and for having parts repaired or replaced when continued use of this product would cause damage or excessive wear to the other parts. The word NOTE is used to convey information that is out of context with the manual text; special information such as specifications, techniques, reference information of supplementary nature.

When in need of parts, always specify the model and serial number. Write this number in the space provided. The serial number plate is located on the center front of the main frame.

SERIAL NO:_____

It is the policy of Wil-Rich to improve its products whenever possible and practical to do so. We reserve the right to make changes, improvements and modifications at any time without incurring obligation to make such changes, improvements on any equipment sold previously

This product is equipped with a serial number tag to track the unit. The serial number tag is located on the inside of the outer frame tube in the front left corner of the main frame (SEE BELOW). Use the information on this tag to identify when ordering parts or requesting information



UNIT ASSEMBLY PROCEDURE

Read all assembly instructions before starting assembly of this unit.

This unit will be packed in a condensed format, usually on a packaging skid. This package may be very heavy and will require the use of some type of fork truck or material handling device to unload the package and break down the parts. Because the various frame components are arranged in a vertical manner any handling equipment must be able to safely lift and position to a height of 12 ft.

Once bundled skids have been properly delivered and positioned in a hard, flat and level area the various frame parts can be removed. NOTE: the components are banded together in the bundling process and these bands provide the structure to maintain the package. Cutting or removing these bands can cause the components to tip or fall-make certain that the parts are properly supported before removing any bands.

Once the bundle has been broken down into the individual components locate the main frame of the unit. Assembly of this unit will require some type of stands to support the components during assembly. These stands should be at least 36 in. tall and of adequate strength to support the components.

Number noted (XX) indicate page numbers to reference while assembling.

Position the main frame on the work stands in the center of the assembly area. NOTE: HARDWARE TO SECURE THE COMPONENTS IS NOTED IN THE ASSEMBLY INFORMATION. UNLESS SPECIFIED ALL NUTS ARE TOP LOCK NUTS. WHEN ASSEMBLING THE COMPONENTS DO NOT TIGHTEN THE LOCK NUTS UNTIL ALL PARTS HAVE BEEN ASSEMBLED. TIGHTEN NUTS TO HOLD PARTS IN POSITION BUT STILL ALLOW ADJUSTMENTS TO BE MADE.

Position and support the inner wings level with the main frame (20,21,26,27) and secure with the noted hardware (page. Mount the outer wing hinge components (22,23) to the inner and outer wing and attach the outer wing to the inner wing. (24,25,28,29) Support all frames with work stands.

Mount the shank assemblies (37) in the positions shown. Mount any required stubs needed to locate all the shank assemblies. NOTE: it may be necessary to shift the shanks laterally to allow clearance for the shank or springs to clear. There are also a number of shanks which mount to frame components and do not use the standard top plate.

Mount the pre-assembled wing lift assemblies to the front frame tubes as located on the shank spacing chart (51-54).

Locate the main frame and wing packer towers and attach to the rear of the frame, secure with the mast tubes noted (20,21,24,29). Assemble the center packer mount to the center packer lift bracket and secure with axle clamps and hardware (32). Slide the inner lift axle pivots onto the end of the center packer mount, slide the rear lift mast into position shown. Slide the center packer hanger onto the ends of the center packer mount and secure.

Attach the wing packer mounts in the same manner as noted above. Mount the front partt of the rear hitch to the main frame and secure as noted (36).

Position the mainframe anchor assembly on the top tubes of the main frame and secure loosely. Further tie the mainframe anchor assembly to the main frame with the truss straps. Position the front wing rest/lock and secure. Locate the front and rear wing fold anchors and secure to the main inner wings. Attach the packer lift anchors, center in the adjustment slot, and adjustment bolt to all rear packer sections. Secure the front lift masts to the front main frame tube (18). Place the inner and outer wing rests as noted and loosely secure (16,20,21,26,27).

Locate and attach the Main Lift Hitch and related parts to the front of the main frame with the pins provided (18), secure with noted hardware. Assemble the main hitch cross and main hitch as shown, insert the front axle pivots, hubs and spindles and tires. Do not attach the front hitch cross to the main lift hitch at this point.

Position and attach the left and right rear lift axles to the lift axle pivots (32) as shown and secure. Insert hubs & spindles and rims and tires.

HYDRAULIC SYSTEM ASSEMBLY

The drill portion of this unit requires 3 hydraulic circuits to properly operate.

MAIN LIFT CIRCUIT

The main lift circuit is used to raise and lower the complete unit. It consists of a set of 8" stroke sequencing cylinders of varying diameter which, when properly connected and adjusted, will move the unit in a level manner. Unit operating depth is maintained by using stroke control collars of varying length on each lift cylinder (see operating instructions for more information).

Locate and retrieve the lift cylinders and move to the lift axle areas. Refer to cylinder location instructions (41,49 to assemble the cylinders to the lift anchors, rear packer and main lift hitch. Cylinders are mounted with the rod ends up, secured with the pins noted or with the pins that are supplied in the cylinder boxes. Locking roll pins or cotter keys can be used to secure the pins. Locate the cylinder stop collar packages and clip to the storage rods provided at each cylinder location.

Locate the appropriate hydraulic hoses and position in the general areas of the unit as shown in the hose routing instructions (49). Install noted fittings in all cylinders in the circuit. As shown this system requires that the hoses connect the cylinder's in the correct sequence. Hoses are routed from the tractor to the base end of the largest cylinders, from the rod end of that cylinder to the base end of the next smaller diameter cylinder, etc.

HOSE ROUTING/CLAMPING

Hose should be generally routed as shown in the routing instruction. Since there are many variables to the routing of hoses it is recommended that hoses be routed along frame members where possible. Special attention should be paid to routing hoses away from potential pinch points when folding wings or when working. Note the need for more hose at the hinge points, route the hoses so there is additional length to move as components move. Loosely secure hoses with the plastic tyes provided.

WING FOLD CIRCUIT

The inner and outer wings are operated by large 5" hydraulic cylinders. Refer to the cylinder location instructions for proper orientation of the cylinders (44,48,48a). Attach the base ends of the outer wing fold cylinders with the bolts or pins noted. Position a wood block spacer under the cylinder to hold the rod end of the cylinder above the outer wing fold linkage attach point. Attach the base ends of the main wing fold cylinders to the main frame anchor assemble as shown. Support the end of the cylinders to allow room for the rods to fuller extend without contacting any frame parts. Locate the required hoses for this circuit, connect the circuit as shown, route and loosely secure the hose with the plastic tyes provided.

TRANSPORT LIFT CIRCUIT

There are two sets of lift cylinders that are used to lift and hold the unit in the transport position. These cylinders are connected in a simple circuit as noted in the assemble instructions (47). Attach the base end of the 4x12 cylinders to the anchor on the main frame and the rod end to the front lift mast. Attach the base end of the 4x16 cylinders to the rear lift mast and support the cylinder with a block to allow full extension without contacting machine elements. Locate the required hoses for this circuit, connect the circuit as shown, route and loosely secure the hose with the plastic tyes provided.

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HYDRAULIC SYSTEM CHARGING

Once all hydraulic circuits have been assembled as noted and the hoses have been attached it is important to properly charge the system.

NOTE: THE SYSTEMS ON THIS UNIT WILL REQUIRE A LARGE AMOUNT OF HYDRAULIC OIL TO FULLY CHARGE AND PURGE. MAKE CERTAIN THE SYSTEM USED TO CHARGE THE CIRCUITS HAS ADEQUATE HYDRAULIC PRESSURE (2700 PSI MINIMUM) AND CAPACITY. OIL MAY NEED TO BE ADDED TO THE PUMP RESERVOIR TO COMPLETE CHARGING. ALL CIRCUITS MUST BE FULLY CHARGED BEFORE LIFTING OR FOLDING THIS UNIT

CHARGING MAIN LIFT CIRCUIT

Sequencing systems require that all cylinders be fully charged with oil. This is accomplished by forcing oil into the main or master cylinder. in this case the 5x8 cylinder located on the front hitch. When the cylinder is charged with oil and fully extended it will move into a bypass mode, oil will move out of the rod end port and to the next cylinder in the sequence. That cylinder will extend into bypass and move oil to the next. etc. This initial process can take a considerable amount of time. While charging the main lift system make certain that all cylinders in the circuit are able to fully extend without contacting any frame components. This is the reason the front pivot axles and main hitch cross should not be attached.

Once both sides of the units main lift cylinders have extended fully, retract the cylinders. All cylinders should retract in sequence. Fully extend the cylinders again and check to ensure all cylinders are purged and fully extended. Once the main lift circuits have been charged the front wheel lifts can be completed as shown . Attach the front hitch cross with the pins and hardware required (18).

CHARGING WING FOLD CIRCUIT

Connect the wing fold circuit to the oil supply and apply pressure. Again the main frame fold cylinders will slowly extend to full extension or all cylinders may extend depending on the pressure required to extend. Make certain that the cylinders do not contact machine parts while extending and retracting.

NOTE: all wing fold cylinders have an integral restrictor in the rod end for safety. This restrictor can make the charging of the system seem slow but is necessary. All wing fold cylinders must be fully charged and cycled before connecting the rod ends to the lift brackets.

Once all cylinders have been charged, fully retracted and fully extended, attach the rod ends to the noted anchor points (20-23,26,27).

CHARGING TRANSPORT LIFT CIRCUIT

As with the wing fold circuit, support the cylinder while extending and charging. Once the circuit has been charged and cycled, attach the rod ends of the cylinders to the appropriate anchor points and secure (16,18,32).

REAR PACKER ASSEMBLY

The main components of the rear packers are pre-assembled. Locate these assemblies and move to the rear of the unit. It will require that the top pivot bolt be removed to attach the packer pivots to the rear packer mounts. Disassemble, mount to the rear packer mounts as shown and reassemble. Insert the packer pressure spring and secure with the hardware noted. Initially tighten the spring bolt to lightly compress the spring.

Mount the packer wheels and securely tighten all mounting bolts. Refer to the operational information for additional information on packer settings.

OPERATIONAL INFORMATION

INITIAL/PRE-FIELD SETTINGS

Once the unit has been fully assembled and before the units is folded for transport check to ensure that all hardware has been properly tightened to specifications noted. Check to ensure that there are no loose parts or tools anywhere on the unit.

Attach the unit to the tractor that will be used with the unit and connect all hoses. Raise the unit to full height with the main lift cylinders and hold the lever to purge the system. Move to a flat area, preferably a level concrete surface and position the unit in an open area. Activate the transport lift circuit to raise the rear transport wheels so that the rear of the unit is carried by the rear packer wheels.

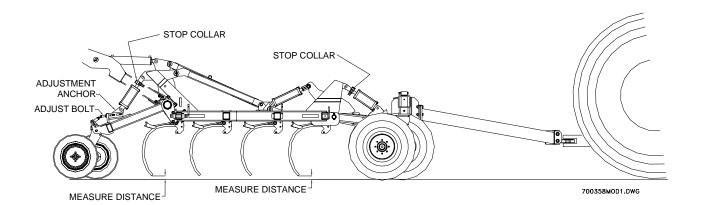
Make certain that all points or attachments are mounted on the unit before doing any pre-field settings. NOTE: Any settings completed in the yard may need to be altered once the unit is in field use. Pre-field settings will make the final field settings less challenging.

Once the main lift system has been purged and sequenced lower the unit down so the shanks are 2" to 3" above the ground as shown below. Measure the distance to the ground from a point of a shank on the front rank of the unit. Pick a shank on the outside of the main frame Measure from the same point of a shank on outside rear of the unit.

If the unit is not level front to rear an adjustment will need to be made to the rear packer anchor point. Loosen the two anchor bolts to allow the anchor to slide. Use the adjust bolt to raise or lower the rear of the main frame to level the unit.

Check the side to side level of the main frame in a similar manner. Adjust the remaining main frame rear packer anchor to level the unit side to side.

To relieve the pressure on the adjustment anchors to make the adjusting easier, lower the unit to the ground to take the load off the anchors. Adjust as required, fully extend the cylinders to properly sequence the system and lower to the unit so the shanks are 2" to 3" off the ground. Measure as before and continue to fine tune the unit level.



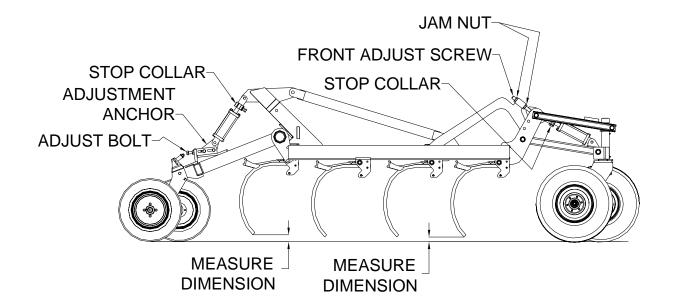
PRE-FIELD SETTINGS INNER AND OUTER WINGS

Check the front to rear level of the inner wings. As noted below the measured distance between the shank and the ground should be the same as the main frame. To adjust the level front to rear both the front lift wheel and rear packer can be adjusted. Check the distance at the front outside shank location on the wing versus the height of the main frame. If the front of the wing needs to be altered, loosen the jam nuts on the front adjust screw and adjust as required. Once the front of the wing is at the same depth as the main frame, lock the front into position. Measure the rear shank height and adjust the rear packer adjust anchor as required.

Repeat the same procedure for the outer wing and wings on other side of the main frame, levelling the wings front to rear and setting the wing height to the main frame.

As with the main frame, lower the unit to relieve the load on the various anchors to allow easier adjustment, Once the adjustments to the various anchors have been completed there should be minimal need to readjust these settings. When the unit has been moved to the field and dropped to the seeding depth it is important to recheck the front to rear level and depth of each section. Variations in soil type and loading will effect the operational depth and readjustments may be required.

The adjustments noted above are to level the unit. To control the seeding depth the stop collars on each lift cylinder must be changed. A full set of stop collars of varying thickness is provided for each lift cylinder. Use these stop collars to set the seeding depth of the unit. If the seeding depth is too deep, stop collars need to be added to each cylinder. The cylinders have been sized to allow the addition or removal of the same thickness of stop collars from each cylinder to control depth of seeding. For example: if the unit is seeding deep all cylinders would have a 1/4" stop collar added. As the unit is cycled it may require that the lift system be resequenced. Raise the unit and hold the cylinders in the extended position until all cylinders have been purged.



WING FOLDING/UNFOLDING

After the unit has been charged and levelled it can be winged up to the transport position. Make certain that the unit is hitched to a tractor and setting on a level surface when folding the wings. If possible move the unit to an area where the ground is not as hard but has a loose composition. Move all personnel away from the path of the wings but pay attention to the components when folding.

Before folding the wings, raise the unit to full height with the main lift circuit. Activate the transport circuit and extend the front and rear lift cylinder fully. Place the channel locks into position on the transport cylinders.

NOTE: Channel locks must be locked in position on all (4 ea) transport lift cylinders before attempting to fold the wings or transporting.

Once channel locks are in position, activate the wing fold circuit. All cylinders should began to retract and start folding the outer wings. When folding for the first time pay attention to the movement of hydraulic or feed hoses, it may require that hoses be moved to prevent kinking or pinching. As the outer wings began to fold the packer wheels at the outer hinge point may skid. This should not be a problem when folding the unit in loose ground conditions. Skidding can be reduced by slowly moving forward with the unit as the wings are folded. Forward movement is only required when the wing packer wheels are skidding.

NOTE: Do not allow personnel to walk under a wing at any time while it is folding or unfolding. Front gage wheels on the wings can abruptly rotate as the wings are folded, do not allow any personnel to be in the wing fold area or on the unit.

As the outer wings fold over the main wings check to ensure that the wing rest contacts and supports the outer wing. Slightly raise the outer wing and adjust wing rest if required.

Once both outer wings have been folded, continue to fold the inner wings. These wings should fold to a vertical position. As the wings approach the vertical position activate the main lift circuit and pull the packer wheels and front lift wheels up. This is necessary to allow clearance in the center of the unit and reduce the transport width. The outer wing should rest on the inner wing rest mounted on the mainframe. If contact is not made readjust the location of the rest.

The front wing rest has provisions to lock or pin the wing for transport. This is not required on the 60 ft. unit as the design of the wing fold does not require a lock.

NOTE: On 40 ft. units with a single wing the main wing must be locked. Insert the locking pin in the clevis on the front wing lock. Make certain that the wing is unlocked before attempting to unfold the wings. Approach the wings from the front when locking or unlocking the wings, never go into the wing fold path to lock or unlock the wings.

To unfold the wings reverse the process. As the inner wing approaches the ground, activate the main lift circuitry and lower the packer and front lift wheels. The main lift and rear packer wheels must be on the ground to support the wings when they touch down. On units with outer wings (60 ft. unit) the wing fold circuitry has a sequence valve to properly unfold the wings. This valve is designed to prevent the outer wings from moving before the main wings have completely unfolded. If the outer wing wants to move excessively before the inner wing is unfolded, adjust the sequence valve by loosening the locking nut and turning the adjustment screw clockwise. Adjust as required and secure setting with the locking nut.

TRANSPORTING UNIT

The 4060 Air Till Drill should be fully folded with the wings locked (40 ft. unit) before transporting. **NOTE: This unit should never be transported without the transport or channel locks installed in the front and rear transport cylinders.** Store the channel locks on the storage bars located on the front cross bar and rear lift axles.

When hitched to the tractor and with a seeder cart attached to the rear hitch the whole machine is quite long. Care must be taken when transporting. When turning the seeder unit will rotate about the rear transport wheels requiring a large turning radius. Never transport the complete unit at high speeds during field use or on the highway. Make certain the tractor is properly weighted to handle the heavy pull load. Use care when moving across uneven ground or poor roads. Do not transport at unsafe speeds on narrow, rough roads. Do not carry the unit off the side of the road where the right side carrying wheels are off the main roadbed. If it is necessary to move off the road to allow traffic to pass, pull off the road slowly or stop and allow traffic to pass.

Do not back the unit up when attached to the seeder supply tank. With the wings folded and no tank is attached it is possible to carefully back the unit a short distance. **NOTE: Never unhitch the unit from the tractor with the main wings folded or with the main frame carrying wheels rotated to the front.**

STORAGE

Unit should be stored inside and unfolded if possible Park the unit in a flat, level area. Unfold the wings to remove the load from the main frame carrying wheels. **NOTE: Never remove the main transport channel locks and lower the unit to the ground with the main wing folded.** Always relieve the system pressure in the wing fold circuit before storing.

If the unit is parked on a soft surface place support under the lift wheels to prevent sinking into the ground. When storing the unit at any time, if hitched to a tractor or not, always relieve the pressure to the wing fold circuit. This can be accomplished by using the float circuit of the tractor. Move the hydraulic lever to the float position to relieve pressure in the wing fold circuit before turning off or unhitching the tractor.

FIELD OPERATIONS

Following the completion of the assemble and pre-field settings the unit can be attached to the rear seed supply system. Refer to the provided information on the supply system for setup and operational information on that portion of the seeding system.

Enter the field and unfold the main/outer wings of the unit. Pressurize the main lift hydraulic circuit to sequence the main lift cylinders. Activate the transport lift circuit, remove and store the channel locks. Fully retract the transport cylinders. Pull forward with the air system engaged and lower the unit into the ground. Set the initial depth of operation without using any stop collars. Stop and check the depth of operation of the main frame. Install the required amount of stop collars in the main frame cylinders to place the unit at the desired working depth. The cylinders should be fully retracted and held by stop collars. Check the front and rear and side to side depth of operation and adjust the rear packer adjustment anchor or front lift axles as noted in the PRE-FIELD SETTINGS instructions.

Once main frame is set to desired depth, raise the unit to full height and hold for 1 minute. Place the same combination of stop collars in all remaining lift cylinders. Lower the unit into the ground while moving forward and stop. Check the depth and level of the wings and readjust as noted in the PRE-FIELD SETTINGS if required.

If main frame or wing depth needs to be changed to be level, do not add or remove stop collars from that cylinder. Readjust the various adjustment anchors.

With a sequencing lift system if one cylinder is stopped by use of additional stop collars all cylinders in the circuit will stop and the depth settings on the remaining cylinders in the circuit will be impacted. All lift cylinders should use the same combination or amount of stop collars.

Move through the field and observe the general operation of the unit. Check the movement of the rear packers arms. If there is excessive vertical movement or bouncing of the packers wheels it may require that the packer compression spring be tightened. It is generally best to have limited pivoting of the packer arms when seeding. Arms should only rotate when encountering a large soil mound or rocks. Tighten the lock nut on the packer spring to increase the holding force.

As with all machinery it will be necessary to check the tightness of all hardware after 4-6 hours of use. As the various components seat there will be parts that need to be adjusted. Hardware that is retaining parts that do not rotate or move should be checked after the first day of use and weekly after that. Parts such as packer wheel pivots or parts that need to wear in or seat should be checked and adjusted more frequently.

Refer to the GREASING information on Page 55-56 for grease locations and frequency.

TIRE INFLATION

The front lift and rear transport tires (31x13.5, 12 ply) should be inflated to 60-65 PSI. If there appears to be sidewall flex in the large front center lift tires the pressure can be increased to 80-85 PSI.

The rear packer tires can be set at 15-35 PSI depending on packing and load requirements. A lower setting will allow the tires to pack a somewhat wider area and shed mud, but there must be sufficient tire pressure to limit sidewall flex. Set initial pressure to 15 PSI and increase or decrease as conditions dictate.

A CAUTION

TO AVOID POSSIBLE INJURY:

- Always lower implement to the ground for servicing or when not in use.
- Never allow anyone to ride on implement.
- Keep everyone clear of tractor and implement while in use or while tractor is running.

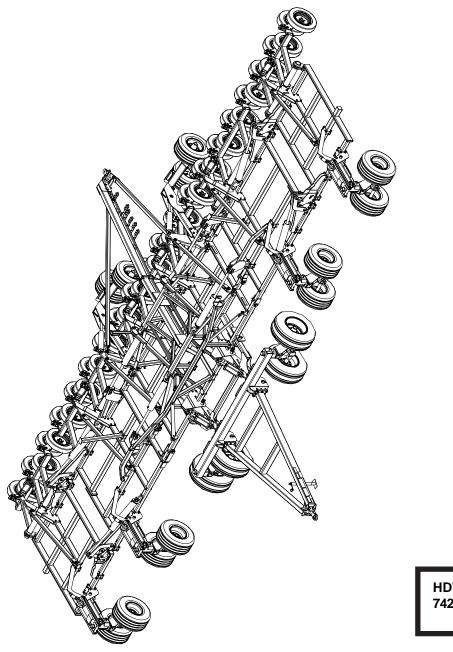
UNLESS SPECIFIED ALL BOLTS ARE SECURED WITH TOP-LOCK LOCK NUTS

PART NO.	DESCRIPTION
88125	NUT HEX 1-8NC 5Z
88141	NUT JAM 1-8NC 5Z
88430	NUT 2POSLK 1-1/4-7NC 5Z
88622	NUT JAM 1-1/4-7NC 5Z
88658	NUT TOP LK 1-8NC 5Z
88659	NUT TOP LK 3/8-16NC 5Z
88661	NUT TOP LK 1/2-13NC 5Z
88665	NUT TOP LK 3/4-10NC 5Z
88831	NUT TOP LK 7/8-9NC 5Z
88845	NUT TOP LK 5/8-11NC 5Z

FULL UNIT OVERVIEW - 60FT UNIT

This page shows an overview of the complete unit as a reference guide to understanding the general layout of the unit. Please refer to the individual assembly instructions for specific information.

Refer to the front cover for a general overview of the 50ft unit.



HDW KIT 74285-2

Information in these boxes reference the corresponding Hardware Kit that contains the hardware used to assembly the portion of the unit noted on that page.

SAFETY

Safety decals appear at various locations on your machine. The decals are provided for your safety and must be kept clean. Replace any decal that becomes worn, damaged, painted over or otherwise difficult to read. Replacement decals are available through you Wil-Rich dealer.

WARNING

TO AVOID INJURY OR MACHINE DAMAGE:

- BEFORE OPERATING; Study Operators Manual, safety messages and safe operating procedures, read safety signs on this machine.
- Transport on public roads Observe Federal, State and Local regulations; display SMV emblem: Attach proper strength implement safety chain; and limit maximum speed to 20mph (32km/h).
- Lower or block all elevated components before servicing or leveling this machine.

A CAUTION

TO AVOID POSSIBLE INJURY:

- Always lower implement to the ground for servicing or when not in use.
- Never allow anyone to ride on implement.
- Keep everyone clear of tractor and implement while in use or while tractor is running.

 31926

BEFORE OPERATING

Use extreme care when making adjustments.

When working under or around the machine always lower shanks to the ground. It is not recommended to set points with cast inserts on cement as the impact may break the casting. We recommend setting blocks under the shank to keep points from resting on cement. After servicing, be sure all tools, parts, or service equipment is removed from the machine.

Make sure there is no one near the machine before or during operation.

DURING OPERATION

Reduce speed when cornering on field ends and when operating on or across dead furrows.

Do not attempt to remove any obstruction while the machine is in motion.

Use extreme care when operating close to ditches, fences or on hillsides.

No one other than the operator should ride on the tractor.

Before and during operation be sure no one is on or around the implement. Serious injury can result from improper use.

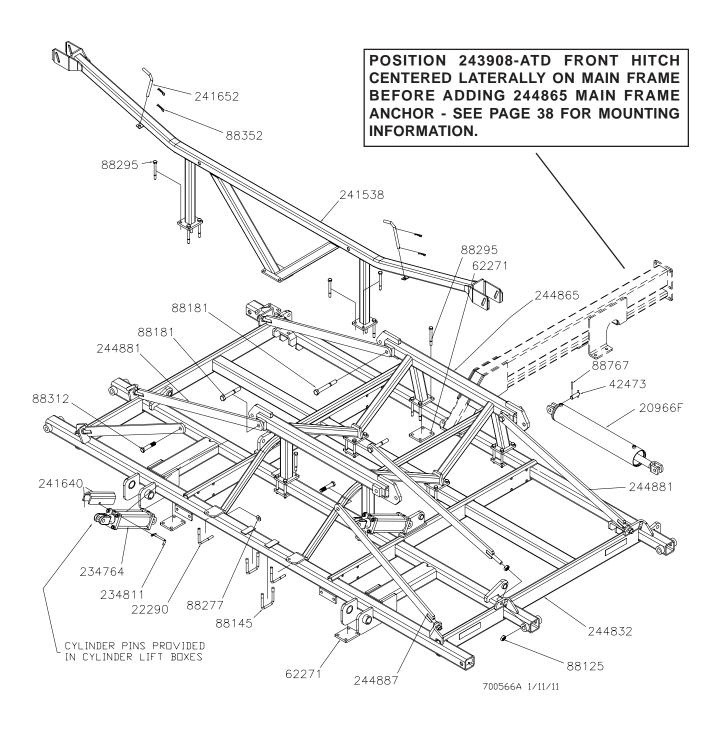
ON HIGHWAY OPERATION

Comply with your local laws governing highway safety when moving machinery on a highway.

Reduce road speed on corners.

Drive at a responsible speed to maintain complete control of the machine at all times.

An S.M.V. emblem and safety lights must be used at all times while traveling on public roads.

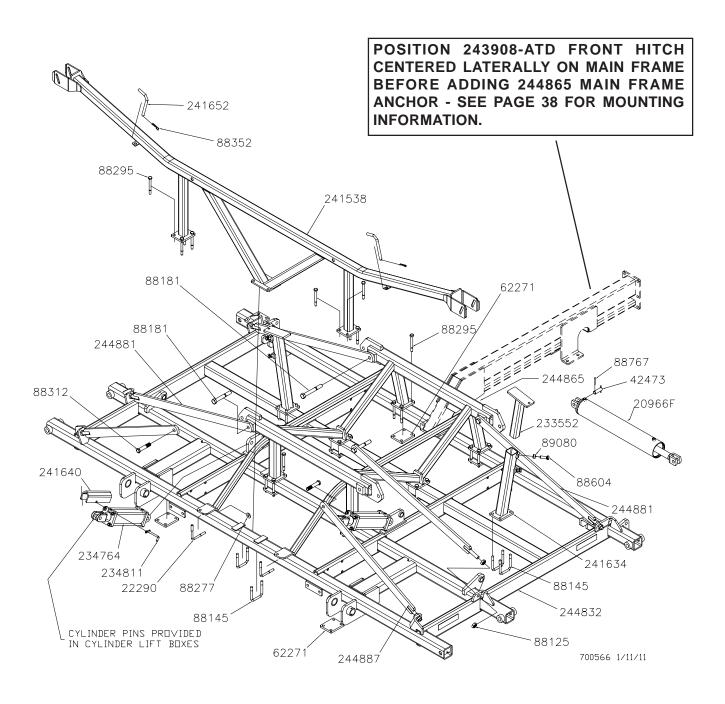


MAIN FRAME ASSEMBLY - 50 FT UNIT

		1
PART NO.	DESCRIPTION	QTY
20966F	HYD CYL 5X30 FGS #A519CY07	4
22290	L-BOLT 5/8 IN FOR 4 SQ TUBE	2
234764	HYD CYL 4" X 12" (BLACK)	2
234811	1/2X4 BENT PIN W/HAIRPIN	2
241538	TRUSS STRAP MOUNT	1
241640	12 INCH CHANNEL LOCK	2
241652	WING LOCK PIN (PLATED)	2
244832	MAIN FRAME - 6015 ATD	1
244865	MAIN FRAME ANCHOR 6015 ATD	1
244881	TRUSS STRAP	4
244887	TRUSS STRAP	2
42473	HEADLESS PIN (H) (2) 1X2-3/8	4
62271	FRAME PLATE (RED)	8
88125	NUT HEX 1-8NC 5Z	12
88145	BLT-U 5/8-11NCX4X5-1/4 Z	2
88181	BLT HEX 1-8NCX7 5Z	4
88277	WSHR FLAT 5/8(11/16X1-3/4ACT) Z	2
88295	BLT HEX 5/8-11NCX6 5Z	32
88312	BLT HEX 1-8NCX5 5Z	2
88352	PIN SPRLK 3/16X3-1/4 PRLS6 Z	4
88767	PIN ROLL 1/4DIAX2-1/2 Z	8

MAIN FRAME ASSEMBLY - 60 FT UNIT

HDW KIT 79973-2

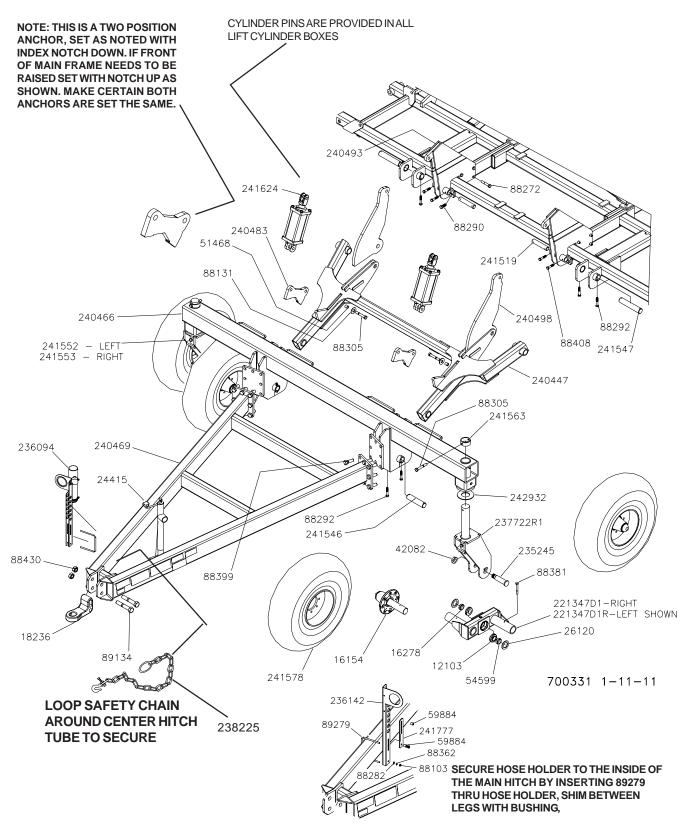


MAIN FRAME ASSEMBLY - 60 FT UNIT

PART NO.	DESCRIPTION	QTY
22290	L-BOLT 5/8 IN FOR 4 SQ TUBE	2
233552	WING REST SLIDE TUBE	2
234764	HYD CYL 4" X 12" (BLACK)	2
234811	1/2X4 BENT PIN W/HAIRPIN	2
241538	TRUSS STRAP MOUNT	1
241634	INNER WING REST - ATD	2
241640	12 INCH CHANNEL LOCK	2
241652	WING LOCK PIN (PLATED)	2
244832	MAIN FRAME - 6015 ATD	1
244865	MAIN FRAME ANCHOR 6015 ATD	1
244881	TRUSS STRAP	4
244887	TRUSS STRAP	2
62271	FRAME PLATE (RED)	8
88125	NUT HEX 1-8NC 5Z	12
88145	BLT-U 5/8-11NCX4X5-1/4 Z	6
88181	BLT HEX 1-8NCX7 5Z	4
88272	BLT HEX 3/4-10NCX4 5Z	1
88277	WSHR FLAT 5/8(11/16X1-3/4ACT) Z	2
88295	BLT HEX 5/8-11NCX6 5Z	32
88312	BLT HEX 1-8NCX5 5Z	2
88352	PIN SPRLK 3/16X3-1/4 PRLS6 Z	2
88604	BLT HEX 3/4-10NCX2 5Z	4
89080	NUT HEX 3/4-10NC 8YZ	4

FRONT HITCH ASSEMBLY

HDW KIT 79973-3

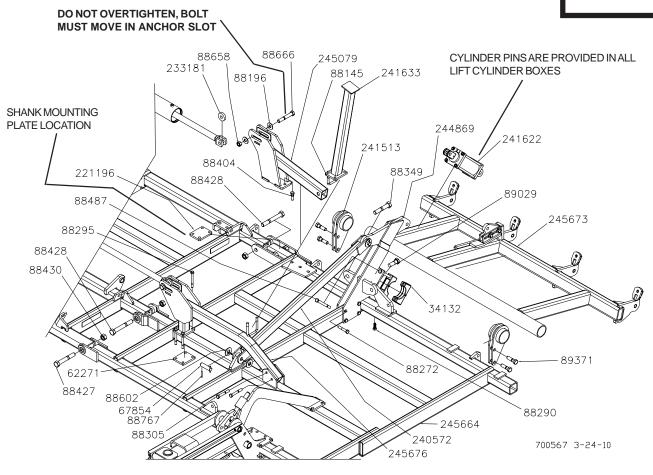


FRONT HITCH ASSEMBLY

PART NO.	DESCRIPTION	QTY	PART NO.	DESCRIPTION	QTY
12103	BEARING CONE 1-3/4ID (25580)	4	235245	TANDEM PIN	2
16154	2-1/2IN HUB&SPINDLE ASSY	4	236094	UTILITY POLEKIT 5 X 7	1
16278	BEARING BUSHING	2	236142	FORMED CHANNEL-HYD HOSE BRKT	1
18236	CAST DUAL HITCH	1	238225	40K SAFETY CHAIN	1
24415	JACK	1	240438	MAIN FRAME - ATD	1
26120	SEAL	4	240447	MAIN LIFT HITCH - ATD	1
42082	1-1/2NF HYDRA JAM LOCK NUT	2	240466	MAIN HITCH CROSS	1
51468	BUSHING	2	240469	MAIN HITCH - ATD	1
54599	WALKER BEARING BUSHING	2	240483	FRONT LIFT ANCHOR	2
59884	3/4OD X .75 IDLER BUSHING	2	240493	FRONT LIFT MAST	2
88103	NUT HEX 3/8-16NC 5Z	2	240498	TRANSPORT ANCHOR	2
88131	WSHR FLAT 3/4(13/16X2ACT) Z	2	241519	PIVOT PIN	2
88272	BLT HEX 3/4-10NCX4 5Z	8	241546	FRONT PIN (PLATED)	2
88282	WSHR FLAT 3/8(7/16X1ACT) Z	2	241547	FRONT PIN (PLATED)	2
88290	BLT HEX 3/4-10NCX2 8YZ	4	241552	LEFT MAIN AXLE WALKER ASSY	1
88292	BLT HEX 5/8-11NCX3-1/2 5Z	8	241553	RIGHT MAIN AXLE WALKER ASSY	1
88305	BLT HEX 3/4-10NCX5 5Z	4	241563	TOP TUBE	2
88362	WSHR HLK 3/8ID Z	2	241578	40 IN MAIN TIRE ASSY - ATD	4
88381	BLT HEX 5/8-11NCX4-1/2 5Z	4	241624	HYD CYL 5X8 SEQ	2
88399	BLT HEX 1-8NCX3 5Z	16	241777	BACKING PLATE	1
88408	BLT HEX 5/8-11NCX3 5Z	4	242932	LARGE WEAR PLATE	2
88430	NUT 2POSLK 1-1/4-7NC 5Z	2	221347D1	RIGHT 3X11 HD WALKING TANDEM	1
89134	BLT HEX 1-1/4-7NCX7 5Z	2	221347D1R	LEFT 3X11 HD WALKING TANDEM	1
89279	BLT-U 3/8-16NCX7X6-1/4 Z	1	237722R1	FRONT AXLE PIVOT -ATD	2
234764	4" X 12" HYD CYLINDER (BLACK)	2			

LEFT INNER WING ASSEMBLY- 50 FT

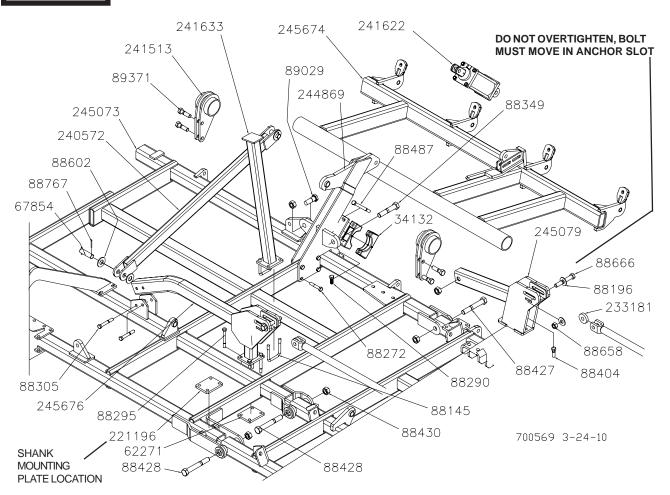
HDW KIT 79973-4



PART NO.	DESCRIPTION	QTY	PART NO.	DESCRIPTION	QTY
221196	MOUNT PLATE - PAINTED GRAY	1	88272	BLT HEX 3/4-10NCX4 5Z	4
233181	LINK DONUT (ZINC)	2	88290	BLT HEX 3/4-10NCX2 8YZ	2
240572	LIFT MAST TUBE	1	88295	BLT HEX 5/8-11NCX6 5Z	4
241513	CENTER PACKER HANGER	2	88305	BLT HEX 3/4-10NCX5 5Z	2
241622	HYD CYL 4-1/2X8 SEQ	1	88349	BLT HEX 1-1/4-7NCX6-1/2 5Z	1
241633	OUTER WING REST - ATD	1	88404	BLT HEX 3/4-10NCX2-1/2 5Z	3
244869	SHORT INNER WING PACKER TOWER	1	88427	BLT HEX 1-1/4-7NCX8 5Z	1
245079	REAR FOLD MAST 5015 ATD	1	88428	BLT HEX 1-1/4-7NCX9 5Z	2
245664	LEFT INNER WING 5015 ATD	1	88430	NUT 2POSLK 1-1/4-7NC 5Z	5
245673	LEFT INNER PACKER GANG 5015 ATD	1	88487	BLT HEX 3/4-10NCX8-1/2 5Z	4
245676	FRONT WING ANCHOR 5015 ATD	1	88602	WSHR FLAT 1-1/4(1-3/8X3ACT) Z	4
34132	AXLE CLAMP ASSEMBLY (RED)	4	88658	NUT TOP LK 1-8NC 5Z	2
62271	FRAME PLATE (RED)	1	88666	BLT HEX 1-8NCX6-1/2 5Z	2
67854	HEADLESS PIN(2) 1-1/4X4-1/2	2	88767	PIN ROLL 1/4DIAX2-1/2 Z	4
88145	BLT-U 5/8-11NCX4X5-1/4 Z	2	89029	BLT HEX 1-1/4-7NC X 4 5Z	1
88196	WSHR FLAT 1(1-1/16X2-1/2ACT) Z	4	89371	BLT HEX 1-8NCX3-1/2 8YZ	4

HDW KIT 79973-4

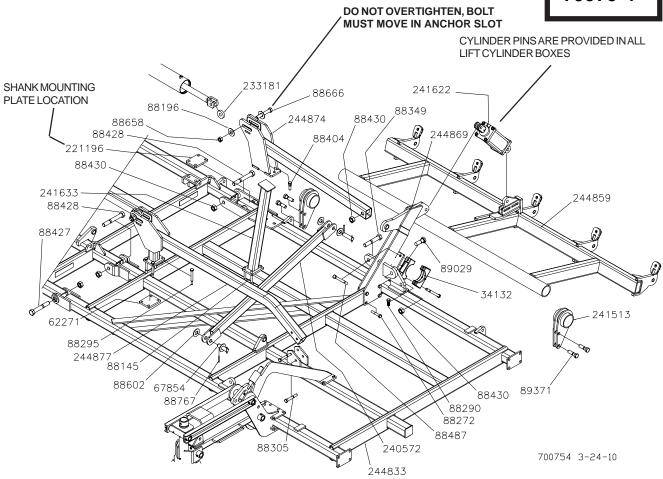
RIGHT INNER WING ASSEMBLY - 50 FT



PART NO.	DESCRIPTION	QTY	PART NO.	DESCRIPTION	QTY
221196	MOUNT PLATE - PAINTED GRAY	1	88272	BLT HEX 3/4-10NCX4 5Z	4
233181	LINK DONUT (ZINC)	2	88290	BLT HEX 3/4-10NCX2 8YZ	2
240572	LIFT MAST TUBE	1	88295	BLT HEX 5/8-11NCX6 5Z	4
241513	CENTER PACKER HANGER	2	88305	BLT HEX 3/4-10NCX5 5Z	2
241622	HYD CYL 4-1/2X8 SEQ	1	88349	BLT HEX 1-1/4-7NCX6-1/2 5Z	1
241633	OUTER WING REST - ATD	1	88404	BLT HEX 3/4-10NCX2-1/2 5Z	3
244869	SHORT INNER WING PACKER TOWER	1	88427	BLT HEX 1-1/4-7NCX8 5Z	1
245073	RIGHT INNER WING 5015 ATD	1	88428	BLT HEX 1-1/4-7NCX9 5Z	2
245079	REAR FOLD MAST 5015 ATD	1	88430	NUT 2POSLK 1-1/4-7NC 5Z	5
245674	RIGHT INNER PACKER GANG 5015 ATD	1	88487	BLT HEX 3/4-10NCX8-1/2 5Z	4
245676	FRONT WING ANCHOR 5015 ATD	1	88602	WSHR FLAT 1-1/4(1-3/8X3ACT) Z	4
34132	AXLE CLAMP ASSEMBLY (RED)	4	88658	NUT TOP LK 1-8NC 5Z	6
62271	FRAME PLATE (RED)	1	88666	BLT HEX 1-8NCX6-1/2 5Z	2
67854	HEADLESS PIN(2) 1-1/4X4-1/2	2	88767	PIN ROLL 1/4DIAX2-1/2 Z	4
88145	BLT-U 5/8-11NCX4X5-1/4 Z	2	89029	BLT HEX 1-1/4-7NC X 4 5Z	1
88196	WSHR FLAT 1(1-1/16X2-1/2ACT) Z	4	89371	BLT HEX 1-8NCX3-1/2 8YZ	4

LEFT INNER WING ASSEMBLY- 60 FT

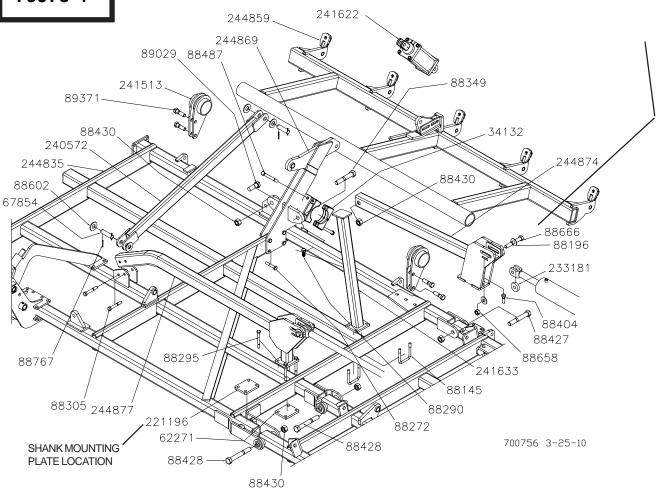
HDW KIT 79973-4



PART NO.	DESCRIPTION	QTY	PART NO.	DESCRIPTION	QTY
221196	MOUNT PLATE - PAINTED GRAY	1	88272	BLT HEX 3/4-10NCX4 5Z	4
233181	LINK DONUT (ZINC)	2	88290	BLT HEX 3/4-10NCX2 8YZ	2
240572	LIFT MAST TUBE	1	88295	BLT HEX 5/8-11NCX6 5Z	4
241513	CENTER PACKER HANGER	2	88305	BLT HEX 3/4-10NCX5 5Z	2
241622	HYD CYL 4-1/2X8 SEQ	1	88349	BLT HEX 1-1/4-7NCX6-1/2 5Z	1
241633	OUTER WING REST - ATD	1	88404	BLT HEX 3/4-10NCX2-1/2 5Z	3
244833	LEFT INNER WING - 6015 ATD	1	88427	BLT HEX 1-1/4-7NCX8 5Z	1
244859	INNER WING PACKER MOUNT 6015 ATD	1	88428	BLT HEX 1-1/4-7NCX9 5Z	2
244869	SHORT INNER WING PACKER TOWER	1	88430	NUT 2POSLK 1-1/4-7NC 5Z	5
244874	REAR FOLD MAST	1	88487	BLT HEX 3/4-10NCX8-1/2 5Z	4
244877	FRONT WING ANCHOR	1	88602	WSHR FLAT 1-1/4(1-3/8X3ACT) Z	4
34132	AXLE CLAMP ASSEMBLY (RED)	4	88658	NUT TOP LK 1-8NC 5Z	6
62271	FRAME PLATE (RED)	1	88666	BLT HEX 1-8NCX6-1/2 5Z	2
67854	HEADLESS PIN(2) 1-1/4X4-1/2	2	88767	PIN ROLL 1/4DIAX2-1/2 Z	4
88145	BLT-U 5/8-11NCX4X5-1/4 Z	2	89029	BLT HEX 1-1/4-7NC X 4 5Z	1
88196	WSHR FLAT 1(1-1/16X2-1/2ACT) Z	4	89371	BLT HEX 1-8NCX3-1/2 8YZ	4

HDW KIT 79973-4

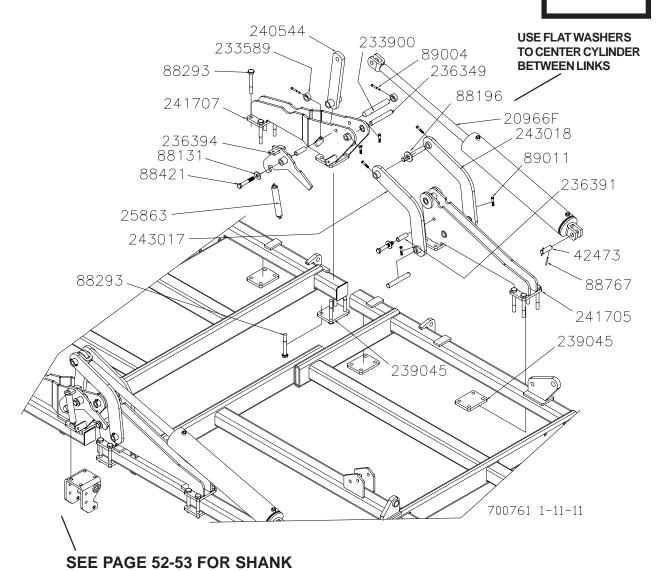
RIGHT INNER WING ASSEMBLY - 60 FT



PART NO.	DESCRIPTION	QTY	PART NO.	DESCRIPTION	QTY
221196	MOUNT PLATE - PAINTED GRAY	1	88272	BLT HEX 3/4-10NCX4 5Z	4
233181	LINK DONUT (ZINC)	2	88290	BLT HEX 3/4-10NCX2 8YZ	2
240572	LIFT MAST TUBE	1	88295	BLT HEX 5/8-11NCX6 5Z	4
241513	CENTER PACKER HANGER	2	88305	BLT HEX 3/4-10NCX5 5Z	2
241622	HYD CYL 4-1/2X8 SEQ	1	88349	BLT HEX 1-1/4-7NCX6-1/2 5Z	1
241633	OUTER WING REST - ATD	1	88404	BLT HEX 3/4-10NCX2-1/2 5Z	3
244835	RIGHT INNER WING - 6015 ATD	1	88427	BLT HEX 1-1/4-7NCX8 5Z	1
244859	INNER WING PACKER MOUNT 6015 ATD	1	88428	BLT HEX 1-1/4-7NCX9 5Z	2
244869	SHORT INNER WING PACKER TOWER	1	88430	NUT 2POSLK 1-1/4-7NC 5Z	5
244874	REAR FOLD MAST	1	88487	BLT HEX 3/4-10NCX8-1/2 5Z	4
244877	FRONT WING ANCHOR	1	88602	WSHR FLAT 1-1/4(1-3/8X3ACT) Z	4
34132	AXLE CLAMP ASSEMBLY (RED)	4	88658	NUT TOP LK 1-8NC 5Z	6
62271	FRAME PLATE (RED)	1	88666	BLT HEX 1-8NCX6-1/2 5Z	2
67854	HEADLESS PIN(2) 1-1/4X4-1/2	2	88767	PIN ROLL 1/4DIAX2-1/2 Z	4
88145	BLT-U 5/8-11NCX4X5-1/4 Z	2	89029	BLT HEX 1-1/4-7NC X 4 5Z	1
88196	WSHR FLAT 1(1-1/16X2-1/2ACT) Z	4	89371	BLT HEX 1-8NCX3-1/2 8YZ	4

OUTER WING HINGE ASSEMBLY- 50 FT

HDW KIT 79973-5



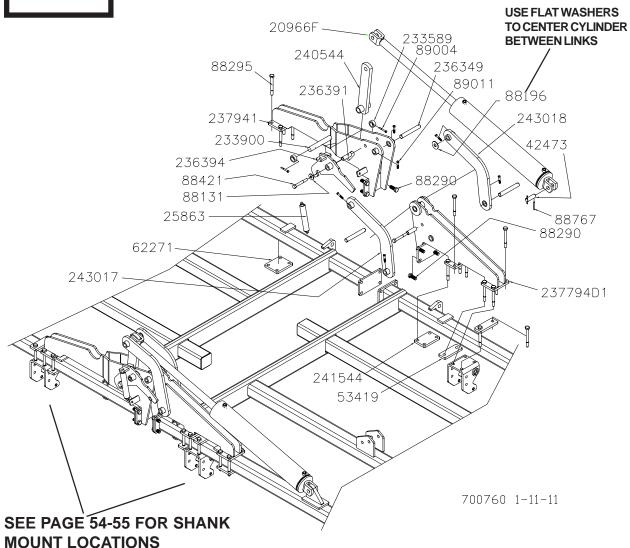
UNLESS SPECIFIED, ALL HARDWARE IS SECURED WITH MATCHING LOCK NUTS

PART NO.	DESCRIPTION	QTY	PART NO.	DESCRIPTION	QTY
25863	SPRING	2	236349	HINGE PIN (ZINC)	6
42473	HEADLESS PIN (H) (2) 1X2-3/8	2	236391	PIVOT TUBE (ZINC)	4
88131	WSHR FLAT 3/4(13/16X2ACT) Z	4	236394	OUTER WING LATCH BRACKET	2
88196	WSHR FLAT 1(1-1/16X2-1/2ACT) Z	8	239045	HINGE TIE PLATE - PAINTED	6
88293	BLT HEX 3/4-10NCX6 5Z	24	240544	OUTER FOLD LINK	2
88421	BLT HEX 3/4-10NCX4-1/2 5Z	4	241705	INNER WING HINGE	2
88767	PIN ROLL 1/4DIAX2-1/2 Z	4	241707	OUTER HINGE PIVOT	2
89004	BLT HEX 5/16-18NCX2-1/2 5Z	4	243017	OUTER FOLD LINK - FRONT	2
89011	BLT HEX 3/8-16NC X 2 5Z	12	243018	OUTER FOLD LINK - REAR	2
233589	PIN BUSHING (ZINC)	4	20966F	HYD CYL 5X30 FGS #A519CY07	2
233900	LOCK PIN	2			

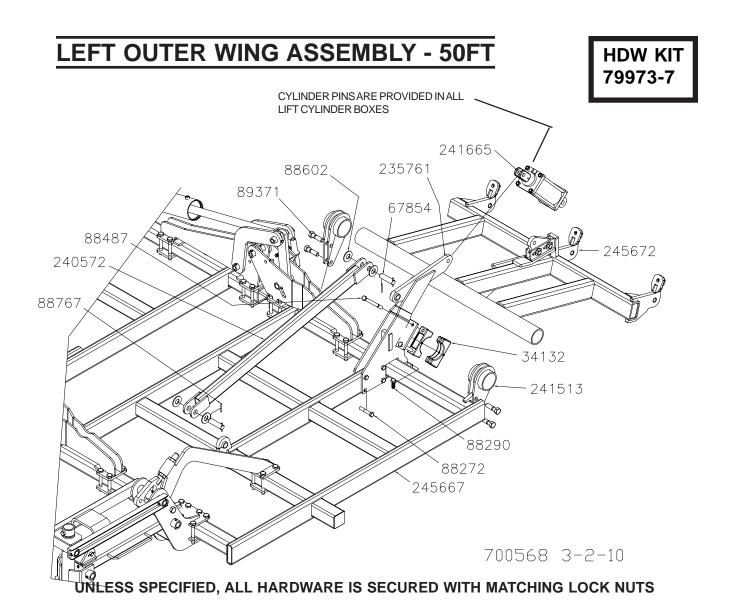
MOUNT LOCATIONS

HDW KIT 79973-6

OUTER WING HINGE ASSEMBLY- 60 FT



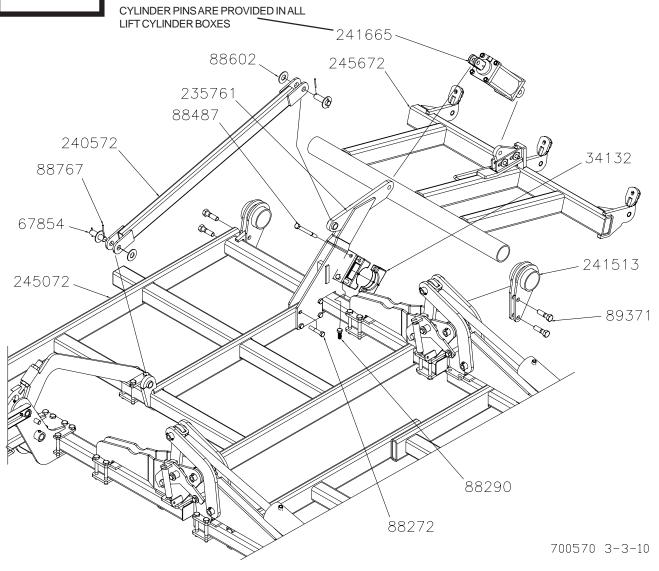
PART NO.	DESCRIPTION	QTY	PART NO.	DESCRIPTION	QTY
20966F	HYD CYL 5X30 FGS #A519CY07	2	25863	SPRING	2
233589	PIN BUSHING (ZINC)	4	42473	HEADLESS PIN (H) (2) 1X2-3/8	2
233900	LOCK PIN	2	53419	STRAP (RED)	6
236349	HINGE PIN (ZINC)	6	62271	FRAME PLATE (RED)	2
236391	PIVOT TUBE (ZINC)	4	88131	WSHR FLAT 3/4(13/16X2ACT) Z	2
236394	OUTER WING LATCH BRACKET	2	88290	BLT HEX 3/4-10NCX2 8YZ	16
237794D1	INNER WING HINGE	2	88295	BLT HEX 5/8-11NCX6 5Z	30
237941	OUTER WING HINGE - ATD	2	88421	BLT HEX 3/4-10NCX4-1/2 5Z	4
240544	OUTER FOLD LINK	2	88767	PIN ROLL 1/4DIAX2-1/2 Z	4
241544	FRAME PLATE - PAINTED (241505)	1	89004	BLT HEX 5/16-18NCX2-1/2 5Z	4
243017	OUTER FOLD LINK - FRONT	2	89011	BLT HEX 3/8-16NC X 2 5Z	12
243018	OUTER FOLD LINK - REAR	2	88196	WSHR FLAT 1(1-1/16X2-1/2ACT) Z	8



PART NO.	DESCRIPTION	QTY
235761	PACKER LIFT BRACKET	1
240572	LIFT MAST TUBE	1
241513	CENTER PACKER HANGER	2
241665	HYD CYL 3-1/2X8 WITH	1
245667	LEFT OUTER WING 5015 ATD	1
245672	OUTER PACKER GANG 5015	1
34132	AXLE CLAMP ASSEMBLY	4
67854	HEADLESS PIN(2) 1-1/4X4-1/2	2
88272	BLT HEX 3/4-10NCX4 5Z	4
88290	BLT HEX 3/4-10NCX2 8YZ	2
88487	BLT HEX 3/4-10NCX8-1/2 5Z	4
88602	WSHR FLAT 1-1/4(1-3/8X3ACT)	4
88767	PIN ROLL 1/4DIAX2-1/2 Z	4
89371	BLT HEX 1-8NCX3-1/2 8YZ	4

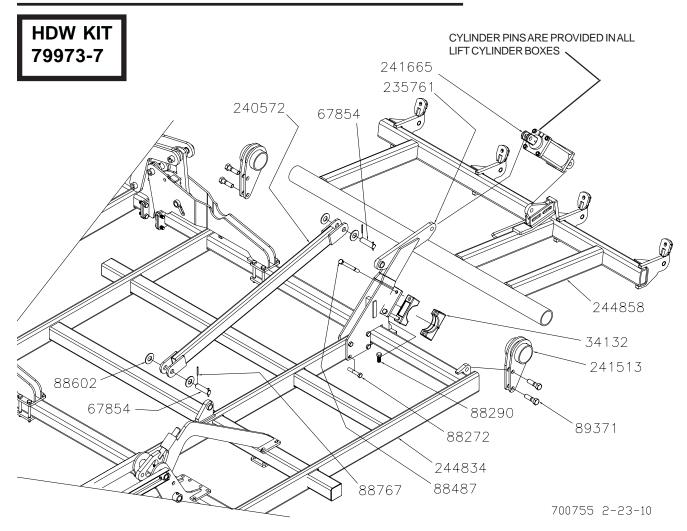
HDW KIT 79973-7

RIGHT OUTER WING ASSEMBLY - 50 FT



PART NO.	DESCRIPTION	QTY	PART NO.	DESCRIPTION	QTY
235761	PACKER LIFT BRACKET	1	67854	HEADLESS PIN(2) 1-1/4X4-1/2	2
240572	LIFT MAST TUBE	1	88272	BLT HEX 3/4-10NCX4 5Z	4
241513	CENTER PACKER HANGER	2	88290	BLT HEX 3/4-10NCX2 8YZ	2
241665	HYD CYL 3-1/2X8 WITH SPACER	1	88487	BLT HEX 3/4-10NCX8-1/2 5Z	4
245072	RIGHT OUTER WING 5015 ATD	1	88602	WSHR FLAT 1-1/4(1-3/8X3ACT) Z	4
245672	OUTER PACKER GANG 5015 ATD	1	88767	PIN ROLL 1/4DIAX2-1/2 Z	4
34132	AXLE CLAMP ASSEMBLY (RED)	4	89371	BLT HEX 1-8NCX3-1/2 8YZ	4

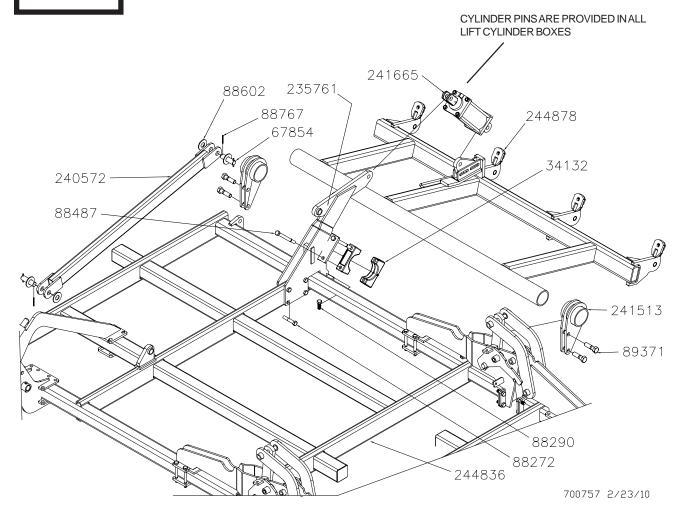
LEFT OUTER WING ASSEMBLY - 60 FT



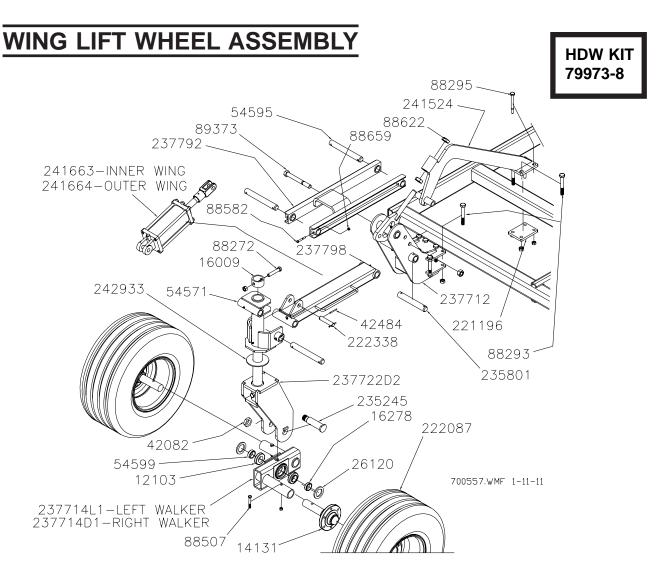
PART NO.	DESCRIPTION	QTY
235761	PACKER LIFT BRACKET	1
240572	LIFT MAST TUBE	1
241513	CENTER PACKER HANGER	2
241665	HYD CYL 3-1/2X8 WITH SPACER	1
244834	LEFT OUTER WING - 6015 ATD	1
244858	RIGHT OUTER WNG PACKER MNT 6015 ATD	1
34132	AXLE CLAMP ASSEMBLY (RED)	4
67854	HEADLESS PIN(2) 1-1/4X4-1/2	2
88272	BLT HEX 3/4-10NCX4 5Z	4
88290	BLT HEX 3/4-10NCX2 8YZ	2
88487	BLT HEX 3/4-10NCX8-1/2 5Z	4
88602	WSHR FLAT 1-1/4(1-3/8X3ACT) Z	4
88767	PIN ROLL 1/4DIAX2-1/2 Z	4
89371	BLT HEX 1-8NCX3-1/2 8YZ	4

HDW KIT 79973-7

RIGHT OUTER WING ASSEMBLY - 60 FT



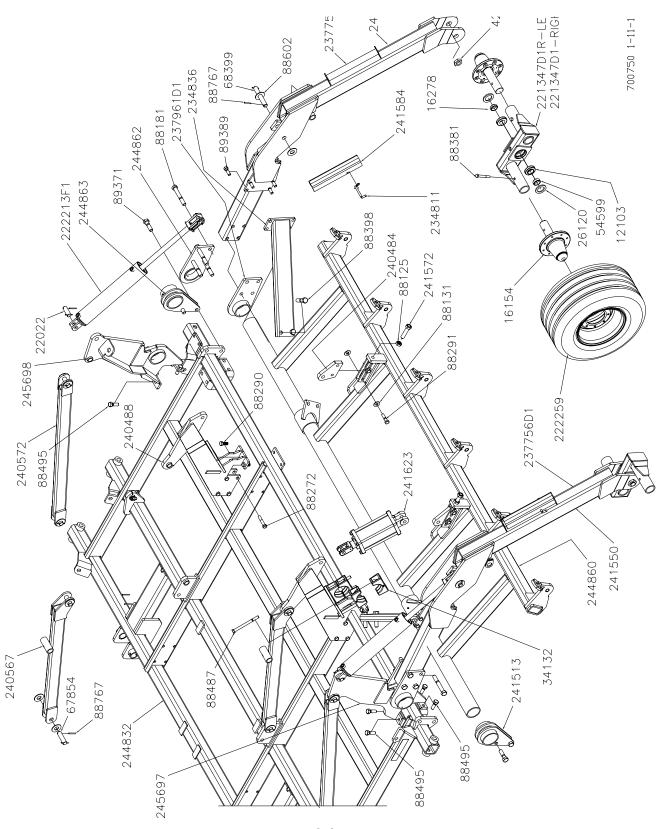
PART NO.	DESCRIPTION	QTY	PART NO.	DESCRIPTION	QTY
235761	PACKER LIFT BRACKET	1	67854	HEADLESS PIN(2) 1-1/4X4-1/2	2
240572	LIFT MAST TUBE	1	88272	BLT HEX 3/4-10NCX4 5Z	4
241513	CENTER PACKER HANGER	2	88290	BLT HEX 3/4-10NCX2 8YZ	2
241665	HYD CYL 3-1/2X8 WITH SPACER	1	88487	BLT HEX 3/4-10NCX8-1/2 5Z	4
244836	RIGHT OUTER WING - 6015 ATD	1	88602	WSHR FLAT 1-1/4(1-3/8X3ACT) Z	4
244878	LEFT OUTER WING PACKER 6015 ATD	1	88767	PIN ROLL 1/4DIAX2-1/2 Z	4
34132	AXLE CLAMP ASSEMBLY (RED)	4	89371	BLT HEX 1-8NCX3-1/2 8YZ	4



PART NO.	DESCRIPTION	QTY	PART NO.	DESCRIPTION	QTY
12103	BEARING CONE 1-3/4ID (25580)	2	89373	BLT HEX 1-8NC X 8-1/2 8YZ	1
14131	2IN HUB & SPINDLE (LG7830015)	2	221196	MOUNT PLATE - PAINTED GRAY	1
16009	COLLAR	1	222087	WHL ASSY 31X13.5 6B 10" 12P GRAY	2
16278	BEARING BUSHING	1	222338	HEADLESS PIN(2) 1X4-1/8	1
26120	SEAL	2	235245	TANDEM PIN	1
42082	1-1/2NF HYDRA JAM LOCK NUT	1	235801	PIVOT PIN (1-1/2 X 10)	1
42484	PIN ROLL 1/4 X 2-1/4 Z	2	237712	FRONT MAST MOUNT - ATD	1
54571	GAUGE WHEEL PIVOT	1	237792	OUTER LINK ARM	1
54595	HEADLESS PIN(2) 1-1/2X9-19/32	3	237798	LOWER OUTER ARM	1
54599	WALKER BEARING BUSHING	1	241524	FRONT MAST SUPPORT	1
88272	BLT HEX 3/4-10NCX4 5Z	1	241644	HYD CYL 3-3/4X8 WITH SPACER	1
88293	BLT HEX 3/4-10NCX6 5Z	9	241663	HYD CYL 4X8 WITH SPACER	1
88295	BLT HEX 5/8-11NCX6 5Z	2	242933	PIVOT WEAR PLATE	1
88507	BLT HEX 1/2-13NCX3-1/2 5Z	2	237714D1	LEFT OUTER WALKER - ATD	1
88582	BLT HEX 3/8-16NCX2-3/4 5Z	8	237714L1	RIGHT OUTER WALKER - ATD	1
88622	NUT JAM 1-1/4-7NC 5Z	4	237722D2	WING FRONT AXLE PIVOT - ATD	1
88659	NUT TOP LK 3/8-16NC 5Z	8			

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MAIN FRAME PACKER/LIFT ASSEMBLY



MAIN FRAME PACKER/LIFT ASSEMBLY

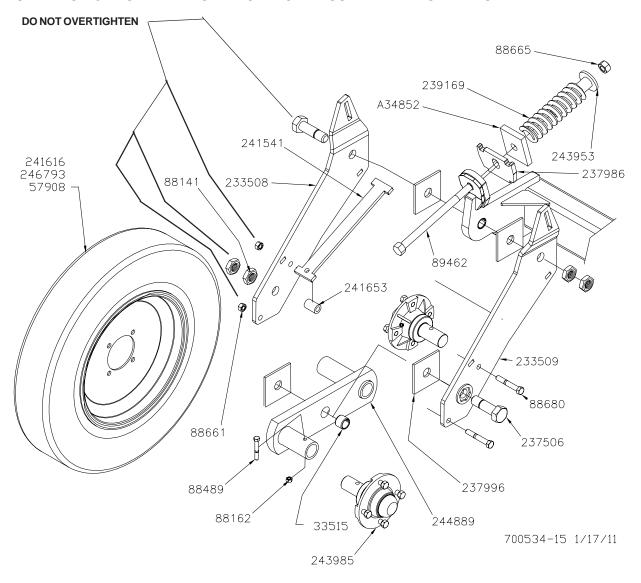
UNLESS SPECIFIED, ALL HARDWARE IS SECURED WITH MATCHING LOCK NUTS

PART NO.	DESCRIPTION	QTY	QTY PART NO.	DESCRIPTION	QTY
12103	BEARING CONE 1-3/4ID (25580)	2	245697	REAR LIFT MAST - LEFT	1
16154	2-1/2IN HUB&SPNDL (LG8210011) BLK	2	245698	REAR LIFT MAST - RIGHT	1
16278	BEARING BUSHING	1	26120	2.25ID X 3.40 OD TRIPLE LIP SEAL	2
22022	HEADLESS PIN(2) 1-1/4X2-7/16	2	34132	AXLE CLAMP ASSEMBLY (RED)	4
221347D1R	221347D1R LEFT 3X11 HD WALKING TANDEM	1	42082	NUT 1-1/2NF HYDRA JAM LOCK	1
222259	WHL ASSY 31X13.5 8B 10" 12P	1	222213F1	222213F1 HYD CYL 4X16 ILP FGS #A519CY26	2
234811	1/2X4 BENT PIN W/HAIRPIN	2	54599	WALKER BEARING BUSHING	1
234836	REAR BRACE TUBE	2	241623	HYD CYL 4-3/4X8 SEQ	1
235245	TANDEM PIN	1	67854	HEADLESS PIN(2) 1-1/4X4-1/2	8
237756D1	REAR LIFT AXLE - LEFT	1	68338	HEADLESS PIN(2) 1-1/4X7-1/8	2
237756D1R	237756D1R REAR LIFT AXLE - RIGHT	1	88125	NUT HEX 1-8NC 5Z	2
237961D1	LIFT AXLE PIVOT	3	88131	WSHR FLAT 3/4(13/16X2ACT) Z	8
240484	PACKER LIFT ANCHOR	2	88181	BLT HEX 1-8NCX7 5Z	8
240488	PACKER LIFT BRACKET	2	88272	BLT HEX 3/4-10NCX4 5Z	8
240567	MAIN MAST TUBE	2	88290	BLT HEX 3/4-10NCX2 8YZ	4
240572	LIFT MAST TUBE	2	88291	BLT HEX 3/4-10NCX3 5Z	4
241513	CENTER PACKER HANGER	1	88381	BLT HEX 5/8-11NCX4-1/2 5Z	2
241550	LEFT REAR LIFT AXLE ASSY	1	88338	BLT HEX 1-8NCX4 5Z	4
241551	RIGHT REAR LIFT AXLE ASSY	1	88487	BLT HEX 3/4-10NCX8-1/2 5Z	4
241572	ADJUSTMENT SCREW	2	88495	BLT HEX 7/8-9NCX2-1/2 5Z	8
241584	REAR CYLINDER CHANNEL LOCK	2	88602	WSHR FLAT 1-1/4(1-3/8X3ACT) Z	20
244832	MAIN FRAME - 6015 ATD	1	88604	BLT HEX 3/4-10NCX2 5Z	1
244860	CENTER PACKER MOUNT 6015 ATD	1	88767	PIN ROLL 1/4DIAX2-1/2 Z	24
244862	LIFT AXLE PIVOT - SHORT	1	89371	BLT HEX 1-8NCX3-1/2 8YZ	4
244863	CENTER PACKER HANGER	1	89389	BLT HEX 3/4-10NCX2-1/2 8YZ	8

REAR PACKER ASSEMBLY

HDW KIT 74285-10

SEE PAGE 37 FOR ADDITIONAL CRITICAL ASSEMBLY INFORMATION



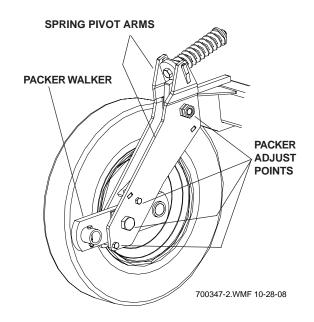
PART NO.	DESCRIPTION	QTY	PART NO.	DESCRIPTION	QTY
33515	SPRING TENSION BUSHING (1")	1	237986	SPRING PLATEPAINTED BLACK	1
57908	VALVE ASSEMBLY (STEEL)	1	237996	WALKER PIVOT WASHER	4
88141	NUT JAM 1-8NC 5Z	4	239169	SPRING - PAINTED BLACK	1
88162	NUT 2POSLK 3/8-16NC 5P	2	241541	INNER PACKER PLATE (BLACK)	1
88489	BLT HEX 3/8-16NCX2-1/2 8YZ	2	241616	PACKER RIM 4.5X15 4 BOLT	1
88661	NUT TOP LK 1/2-13NC 5Z	2	241653	PACKER SPACER (ZINC)	1
88665	NUT TOP LK 3/4-10NC 5Z	1	243953	SPRING CENTERING WASHER/TUBE	2
88680	BLT HEX 1/2-13NCX3-1/4 5Z	1	243985	2009 PACKER HUB & SPINDLE ASSY	2
89462	BLT-HEX 3/4X10NCX10-1/2 8Z	1	244889	PACKER WALKER - 15 IN	1
233508	LEFT PACKER ARM	1	246793	PACKER TIRE 26/7.75X15	1
233509	RIGHT PACKER ARM	1	A34852	PLATE-TDD SPRING RETAINER	1
237506	1NCX3-1/2 SPECIAL HEX HEAD BOLT	2			

PACKER ASSEMBLY/SETTING INFORMATION

ONCE EACH PACKER ASSEMBLY HAS BEEN COMPLETED WITHOUT MOUNTING THE SPRING, IT IS CRITICAL TO PROPERLY SET THE TIGHTNESS OF THE PACKER ADJUST POINTS INDICATED. THE SPRING LOADED PACKER ASSEMBLIES WILL NOT FUNCTION PROPERLY IF THE NOTED POINTS ARE OVER TIGHTENED. BOTH THE SPRING PIVOT ARMS AND PACKER WALKERS MUST ROTATE FREELY.

TIGHTEN THE UPPER AND LOWER MAIN PIVOT BOLTS BY ADJUSTING THE INNER JAM NUT. CHECK TO ENSURE THE ARMS AND WALKER ARE FREE TO PIVOT. HOLD THE INNER JAM NUT WITH A WRENCH AND LOCK WITH THE OUTER JAM NUT. DO NOT USE AN AIR WRENCH TO TIGHTEN ANY OF THE PACKER ADJUST POINTS. ADJUST THE TWO (2) CLAMP BOLTS, CHECKING TO ENSURE THAT THE WALKER IS FREE TO PIVOT.

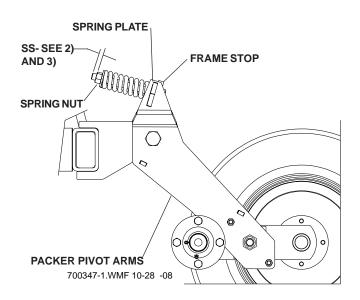
IF THE PACKER ADJUST POINTS ARE TIGHT THE SPRING WILL NOT RETURN THE SPRING ARMS TO THE CORRECT POINT AND THE DEPTH CONTROL AND PACKING OF THE REAR OF THE UNIT WILL BE INCONSISTENT. WITH THE PACKER ARMS AND WALKERS ABLE TO ROTATE AND THE SPRINGS SET AS NOTED BELOW THE PACKERS SHOULD CARRY THE REAR OF THE UNITATA CONSISTENT DEPTHAND ALLOW THE SPRING LOADED ARMS TO PIVOT WHEN OBSTACLES ARE ENCOUNTERED.



PACKER SPRING SETTINGS

TO MAINTAIN PROPER REAR MACHINE DEPTH THE SPRING ON EACH PACKER ASSEMBLY MUST BE ADJUSTED TO BALANCE THE WEIGHT OF THE MACHINE AND ALLOW PROPER RELIEF OF THE PACKER WHEELS WHEN ENCOUNTERING UNEVEN TERRAIN. ONCE THE PACKER PIVOTS HAVE BEEN PROPERLY ADJUSTED AS NOTED ABOVE THE SPRING CAN BE ADDED AND THE SPRING NUTS ADJUSTED. THIS SHOULD BE DONE WHEN THE UNIT IS COMPLETELY ASSEMBLED AND LEVELLED ON A FLAT SURFACE PRIOR TO GOING TO THE FIELD. LOWER THE UNIT SO THE SHANKS OR INJECTORS JUST CLEAR THE GROUND.

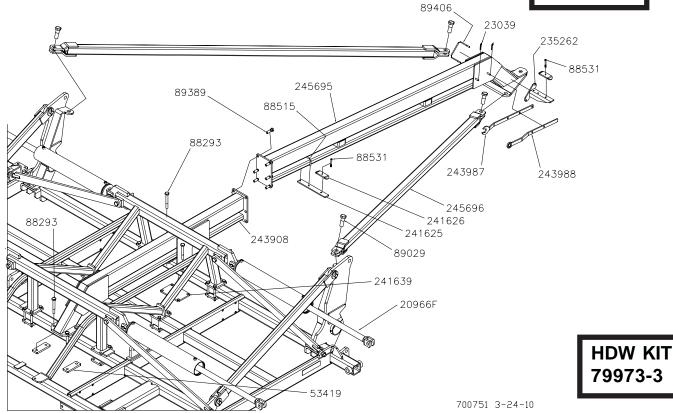
ALL SPRINGS SHOULD BE SETTO MAINTAIN CONTACT BETWEEN THE SPRING PLATE AND THE FRAME STOP ON EACH PACKER PIVOT. THIS SETTING IS DEPENDENT ON THE LOAD THAT IS SEEN BE EACH PACKER. SINCE THERE IS MORE WEIGHT ON MOST OF THE MAIN FRAME PACKERS THE SPRING SETTING (SS) WILL BE GREATER THAN REQUIRED ON THE OUTER WINGS. SETTHE SPRING DISTANCE (SS) ON ALL SPRINGS TO MAINTAIN THE SPRING PLATE TO FRAME STOP CONTACT WITH THE WEIGHT OF THE UNIT. WHEN PROPERLY SET THE PACKERS SHOULD NOT MOVE EXCESSIVELY UNLESS THE PACKER WHEELS ENCOUNTER UNEVEN GROUND OR AND OBSTRUCTION.



- 1) WITH THE MAIN FRAME LEVEL TIGHTEN THE SPRING BOLT TO A (SS) DISTANCE OF APPROXIMATELY 3/8"-1/2" ON ALL THE MAIN FRAME PACKERS.
- 2) TIGHTEN THE PACKER SPRINGS ON THE INNER PORTION OF THE INNER WINGS TO A (SS) DISTANCE OF 3/8"-1/2" WITH THE REMAINING WING PACKER SPRINGS TO A LESSER DISTANCE.
- 3) DEPENDING ON THE WEIGHT AND SIZE OF THE UNIT TIGHTEN THE REMAINING PACKER SPRINGS ON THE OUTER WINGS TO A 1/4" TO 3/8" DIMENSION.
- 4) CHECK TO ENSURE THAT THE SPRING PLATE TO FRAME STOP CONTACT IS MAINTAINED TO ENSURE THAT ALL PACKERS ARE SET TO THE SAME DEPTH.
- 5) PROCEED TO COMPLETING THE FIELD SETTINGS AND CHECK TO SEE THAT THE STOP CONTACT IS MAINTAINED AS THE UNIT MOVES THROUGH THE FIELD. IF THE PACKER PIVOT ARMS ARE MOVING EXCESSIVELY DUE TO NORMAL LOADING, NOT OBSTRUCTIONS, TIGHTEN THE SPRING NUTS. TIGHTEN SPRINGS ONLY TO THE POINT OF MAINTAINING SPRING PLATE TO FRAME STOP CONTACT WHILE OPERATING. EXCESS SPRING PRESSURE WILL RESTRICT RELIEF WHEN ENCOUNTERING OBSTRUCTIONS.

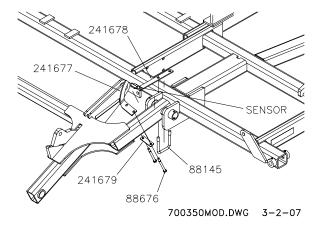
REAR HITCH ASSEMBLY



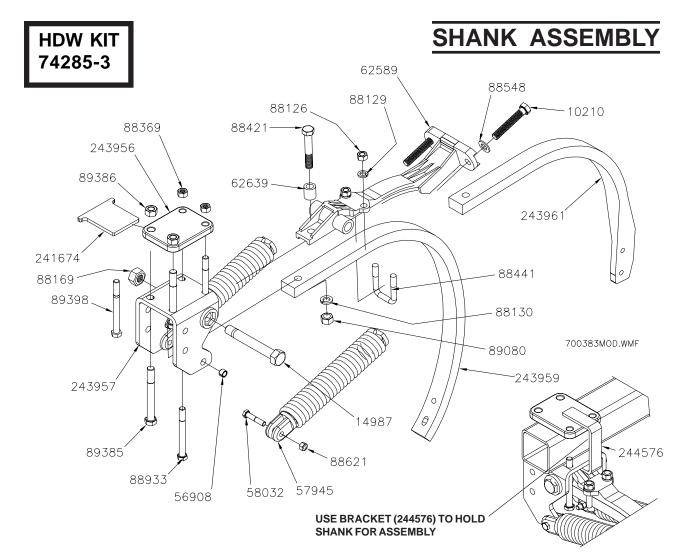


PART NO.	DESCRIPTION	QTY
20966F	HYD CYL 5X30 FGS #A519CY07	4
23039	PIN-HAIR .14 X 2.69 ZP	2
235262	HOSE BRACKET	1
241625	HOSE BRACKET	6
241626	HOSE CLAMP	7
241639	REAR HITCH PLATE (RED)	1
243908	ATD HITCH - SHORT FRONT	1
243987	PACKER OPEN END WRENCH	1
243988	PACKER BOX END WRENCH	1
245695	REAR PULL HITCH - 2010	1
245696	REAR HITCH BRACE TUBE	2
53419	STRAP (RED)	2
88293	BLT HEX 3/4-10NCX6 5Z	8
88515	BLT-U 3/8-16NCX4X2-3/4 Z	6
88531	BLT HEX 3/8-16NCX3 5Z	7
89029	BLT HEX 1-1/4-7NC X 4 5Z	4
89389	BLT HEX 3/4-10NCX2-1/2 8YZ	6
89406	BLT-U 3/8-NCX6 X 5	1

LIFT SENSOR MOUNT ASSEMBLY



PART NO.	DESCRIPTION	QTY
241677	SENSOR MOUNT	1
241678	SENSOR PLATE	1
241679	TIE STRAP	1
88145	BLT-U 5/8-11NCX4X5-1/4 Z	1
88676	BLT HEX 1/2-13NCX6-1/2 5Z	2
SENSOR	SENSOR	1

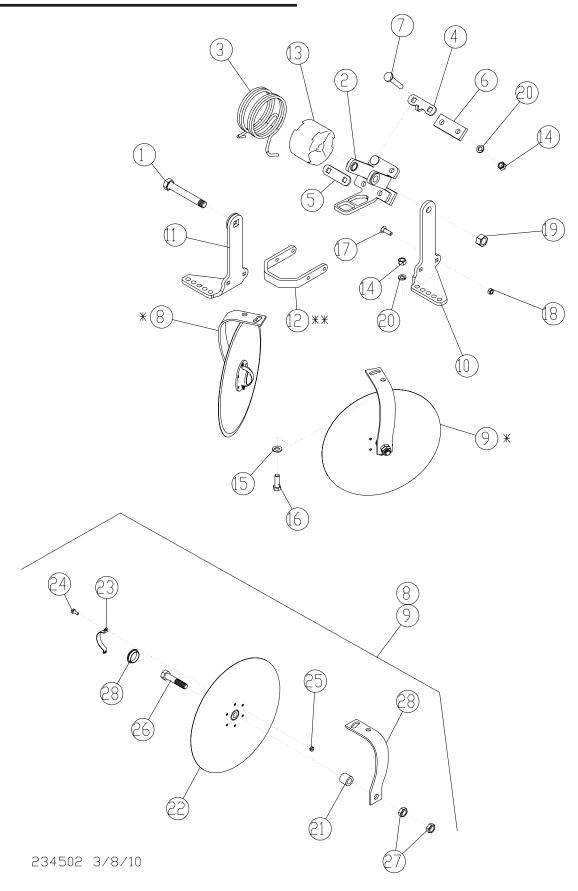


89398 BOLT USED WITH 241764 SHIM AND 241675 SHIM KIT

243954-EDGE-ON SHANK ASSY (BLACK) 243955-CHISEL SHANK ASSY (BLACK

PART NO.	DESCRIPTION	QTY	PART NO.	DESCRIPTION	QTY
10210	ADJUSTMENT BOLT	2	88441	BLT-U 5/8-11NCX2X3-1/4 Z	1
14987	PIVOT BOLT (CP SHANK)	1	88548	WSHR FLAT 3/4SAE(13/16X1-1/2) Z	2
48836	CAST SPRING YOKE	1	88621	NUT NLK 1/2-13NC 5Z	2
56908	1/2" SPRING TENSION BUSHING	2	88933	BLT HEX 5/8NCX6 8YZ	2
56910	13-15/16 EXTENSION SPRING	1	89080	NUT HEX 3/4-10NC 8YZ	1
57945	16.12 SPRING ASSEMBLY	2	89385	BLT HEX 3/4-16NFX6-1/2 8YZ	2
57963	CAST SPRING PLUG	1	89386	NUT NYL 3/4-16NF 8YZ	2
58032	HDN 1/2 X 2-1/2 BOLT Z	2	89398	BLT HEX 5/8-11NCX6-1/2 8YZ	24
62589	DUCTILE PIVOT ARM	1	241674	3/8 IN SHANK SHIM	12
62639	STOP COLLAR	1	243954	EDGE-ON CP SHANK ASSY (BLACK)	1
88126	NUT HEX 5/8-11NC 5Z	2	243955	CP SHANK ASSY 32IN (BLACK)	1
88129	WSHR HLK 5/8ID(11/16ACT) Z	2	243956	CAST TOP PLATE (BLACK)	1
88130	WSHR HLK 3/4ID(13/16ACT) Z	1	243957	SHANK HOLDER FRAME BRKT (BLACK)	1
88169	NUT 2POSLK 1-14NF 5Z	1	243959	54 DEG 32IN CP SHK (BLACK)	1
88369	NUT 2POSLK 5/8-11NC 5Z	2	243961	SHANK EDGE ON (BLACK)	1
88421	BLT HEX 3/4-10NCX4-1/2 5Z	1	244576	SHANK MOUNT TOOL	2

DISC LEVELER - OPTIONAL



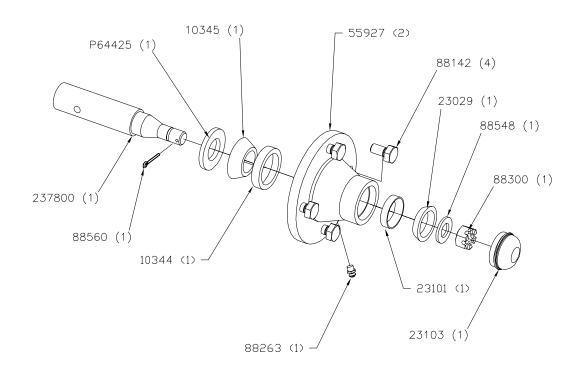
DISC LEVELER - OPTIONAL

1 234504 BOLT-HEX: .50 X 5.75 NC GR5 ZP 1 2 66477 ASSY-CENTER CARRIER 1 3 67206 SPRING-TORSION .250 OTII 1 4 67208 HOLDER-SPRING ZP 1 5 67209 SPACER-DISC LEVELER ZP 1 6 67133 PLATE-BACKING ZP 2 7 67402 BOLT-CARR: .50-13 X 3.00 1.50 THREAD ZP 4 8 66478* ASSY-LH DISC ARM 1 9 66479* ASSY-RH DISC ARM 2 10 67132 ARM LONG LEFT 1 11 67131 WLDMT-ARM SHORT RIGHT 1 12 234509 WLDMT-ARM SHORT RIGHT 1 12 234513 STRAP-GUARD 1 13 67409 SPACER-CENTER CARRIER 1 14 1011577 NUT-HEX: .50 NC ZP 4 15 33036 WASHER-FLAT: .50 ZP HD 4 16 1011606 BOLT-CRG: .38 X 1.25 NC GR5 ZP 1 <t< th=""><th>ITEM</th><th>PART NO.</th><th>DESCRIPTION</th><th>QTY</th></t<>	ITEM	PART NO.	DESCRIPTION	QTY
3 67206 SPRING-TORSION .250 OTII 1 4 67208 HOLDER-SPRING ZP 1 5 67209 SPACER-DISC LEVELER ZP 1 6 67133 PLATE-BACKING ZP 2 7 67402 BOLT-CARR: .50-13 X 3.00 1.50 THREAD ZP 4 8 66478* ASSY-LH DISC ARM 1 9 66479* ASSY-H DISC ARM 2 10 67132 ARM LONG LEFT 1 11 67131 WLDMT-ARM LONG RIGHT 1 12 234506 ARM SHORT LEFT 1 11 67131 WLDMT-ARM SHORT RIGHT 1 12 234513 STRAP-EXTENDED GUARD 1 13 67409 SPACER-CENTER CARRIER 1 14 1011577 NUT-HEX: .50 NC ZP 4 15 33036 WASHER-FLAT: .50 ZP HD 4 16 1011606 BOLT-CRG: .38 X 1.25 NC GR5 ZP 1 17 1016362 BOLT-CRG: .38 N C GR5 ZP 1 <tr< td=""><td>1</td><td>234504</td><td>BOLT-HEX: .50 X 5.75 NC GR5 ZP</td><td>1</td></tr<>	1	234504	BOLT-HEX: .50 X 5.75 NC GR5 ZP	1
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5 67209 SPACER-DISC LEVELER ZP 1 6 67133 PLATE-BACKING ZP 2 7 67402 BOLT-CARR: .50-13 X 3.00 1.50 THREAD ZP 4 8 66478* ASSY-LH DISC ARM 1 9 66479* ASSY-RH DISC ARM 2 10 67132 ARM LONG LEFT 1 11 67131 WLDMT-ARM LONG RIGHT 1 12 234506 ARM SHORT LEFT 1 11 67131 WLDMT-ARM SHORT RIGHT 1 12 234513 STRAP-GUARD 1 12 234513 STRAP-EXTENDED GUARD 1 13 67409 SPACER-CENTER CARRIER 1 14 1011577 NUT-HEX: .50 NC ZP 4 15 33036 WASHER-FLAT: .50 ZP HD 4 16 1011606 BOLT-CRG: .38 X 1.25 NC GR5 ZP 1 17 1016362 BOLT-CRG: .38 NC GR5 ZP 1 18 1016999 NUT-TOPLOCK: .50 ZP 8	3	67206	SPRING-TORSION .250 OTII	1
6 67133 PLATE-BACKING ZP 2 7 67402 BOLT-CARR: .50-13 X 3.00 1.50 THREAD ZP 4 8 66478* ASSY-LH DISC ARM 1 9 66479* ASSY-RH DISC ARM 2 10 67132 ARM LONG LEFT 1 11 67131 WLDMT-ARM LONG RIGHT 1 12 234509 WLDMT-ARM SHORT RIGHT 1 12 234513 STRAP-GUARD 1 13 67409 SPACER-CENTER CARRIER 1 14 1011577 NUT-HEX: .50 NC ZP 4 15 33036 WASHER-FLAT: .50 ZP HD 4 16 1011606 BOLT-HEX: .50 X 1.25 NC GR5 ZP 1 17 1016362 BOLT-CRG: .38 X 1.25 NC GR5 ZP 1 18 1016999 NUT-TOPLOCK: .38 NC GR5 ZP 1 19 1013537 NUT-TOPLOCK: .50 ZP 8 21 234516 TUBE-SPACER 2 22 234965 ASSY-DISC BLADE 2 <	4	67208	HOLDER-SPRING ZP	1
7 67402 BOLT-CARR: .50-13 X 3.00 1.50 THREAD ZP 4 8 66478* ASSY-LH DISC ARM 1 9 66479* ASSY-RH DISC ARM 2 10 67132 ARM LONG LEFT 1 11 67131 WLDMT-ARM LONG RIGHT 1 11 67131 WLDMT-ARM SHORT RIGHT 1 12 234509 WLDMT-ARM SHORT RIGHT 1 12 234513 STRAP-GUARD 1 13 67409 SPACER-CENTER CARRIER 1 14 1011577 NUT-HEX: .50 NC ZP 4 15 33036 WASHER-FLAT: .50 ZP HD 4 16 1011606 BOLT-CRG: .38 X 1.25 NC GR5 ZP 1 17 1016362 BOLT-CRG: .38 X 1.25 NC GR5 ZP 1 18 1016999 NUT-TOPLOCK: .38 NC GR5 ZP 1 19 1013537 NUT-TOPLOCK: .50 CR5 ZP 1 20 1011581 WASHER-LOCK: .50 ZP 8 21 234516 TUBE-SPACER 2 22 234965 ASSY-DISC BLADE 2	5	67209	SPACER-DISC LEVELER ZP	1
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9 66479* ASSY-RH DISC ARM 2 10 67132 ARM LONG LEFT 1 234506 ARM SHORT LEFT 1 11 67131 WLDMT-ARM LONG RIGHT 1 12 234509 WLDMT-ARM SHORT RIGHT 1 12 234513 STRAP-GUARD 1 13 67409 SPACER-CENTER CARRIER 1 14 1011577 NUT-HEX: .50 NC ZP 4 15 33036 WASHER-FLAT: .50 ZP HD 4 16 1011606 BOLT-HEX: .50 X 1.25 NC GR5 ZP 1 17 1016362 BOLT-CRG: .38 X 1.25 NC GR5 ZP 1 18 1016999 NUT-TOPLOCK: .38 NC GR5 ZP 1 19 1013537 NUT-TOPLOCK: .50 ZP 8 20 1011581 WASHER-LOCK: .50 ZP 8 21 234516 TUBE-SPACER 2 22 234965 ASSY-DISC BLADE 2 23 234517 RETAINER-DUST CAP 2 24 66834 BOLT-HEX: .25 X .63 NC GR5 6 25 1013427 <td>7</td> <td>67402</td> <td>BOLT-CARR: .50-13 X 3.00 1.50 THREAD ZP</td> <td>4</td>	7	67402	BOLT-CARR: .50-13 X 3.00 1.50 THREAD ZP	4
10 67132 ARM LONG LEFT 1 234506 ARM SHORT LEFT 1 11 67131 WLDMT-ARM LONG RIGHT 1 12 234509 WLDMT-ARM SHORT RIGHT 1 12 234513 STRAP-GUARD 1 13 67409 SPACER-CENTER CARRIER 1 14 1011577 NUT-HEX: .50 NC ZP 4 15 33036 WASHER-FLAT: .50 ZP HD 4 16 1011606 BOLT-HEX: .50 X 1.25 NC GR5 ZP 1 17 1016362 BOLT-CRG: .38 X 1.25 NC GR5 ZP 1 18 1016999 NUT-TOPLOCK: .38 NC GR5 ZP 1 19 1013537 NUT-TOPLOCK: .75 NC GR5 ZP 1 20 1011581 WASHER-LOCK: .50 ZP 8 21 234516 TUBE-SPACER 2 22 234965 ASSY-DISC BLADE 2 23 234517 RETAINER-DUST CAP 2 24 66834 BOLT-HEX: .25 X .63 NC GR5 6 25 1013427 NUT-CENTERLOCK 6 26 101	8	66478*	ASSY-LH DISC ARM	1
234506 ARM SHORT LEFT 11 67131 WLDMT-ARM LONG RIGHT 1 12 234509 WLDMT-ARM SHORT RIGHT 1 12 234513 STRAP-GUARD 1 13 67409 SPACER-ENTER CARRIER 1 14 1011577 NUT-HEX: .50 NC ZP 4 15 33036 WASHER-FLAT: .50 ZP HD 4 16 1011606 BOLT-HEX: .50 X 1.25 NC GR5 ZP 1 17 1016362 BOLT-CRG: .38 X 1.25 NC GR5 ZP 1 18 1016999 NUT-TOPLOCK: .38 NC GR5 ZP 1 19 1013537 NUT-TOPLOCK: .38 NC GR5 ZP 1 20 1011581 WASHER-LOCK: .50 ZP 8 21 234516 TUBE-SPACER 2 22 234965 ASSY-DISC BLADE 2 23 234517 RETAINER-DUST CAP 2 24 66834 BOLT-HEX: .25 X .63 NC GR5 6 25 1013427 NUT-CENTERLOCK 6 26 1011624 BOLT-HEX: .63 X 3.00 NC GR5 ZP 2 27 10	9	66479*	ASSY-RH DISC ARM	2
11 67131 WLDMT-ARM LONG RIGHT 1 234509 WLDMT-ARM SHORT RIGHT 1 12 234513 STRAP-GUARD 1 13 67409 SPACER-CENTER CARRIER 1 14 1011577 NUT-HEX: .50 NC ZP 4 15 33036 WASHER-FLAT: .50 ZP HD 4 16 1011606 BOLT-HEX: .50 X1.25 NC GR5 ZP 1 17 1016362 BOLT-CRG: .38 X1.25 NC GR5 ZP 1 18 1016999 NUT-TOPLOCK: .38 NC GR5 ZP 1 19 1013537 NUT-TOPLOCK: .75 NC GR5 ZP 1 20 1011581 WASHER-LOCK: .50 ZP 8 21 234516 TUBE-SPACER 2 22 234965 ASSY-DISC BLADE 2 23 234517 RETAINER-DUST CAP 2 24 66834 BOLT-HEX: .25 X .63 NC GR5 6 25 1013427 NUT-CENTERLOCK 6 26 1011624 BOLT-HEX: .63 X 3.00 NC GR5 ZP 2 27 1026259 NUT-JAM: .63 NC GR2 ZP 4	10	67132	ARM LONG LEFT	1
234509 WLDMT-ARM SHORT RIGHT 12 234513 STRAP-GUARD 1 234520** STRAP-EXTENDED GUARD 1 13 67409 SPACER-CENTER CARRIER 1 14 1011577 NUT-HEX: .50 NC ZP 4 15 33036 WASHER-FLAT: .50 ZP HD 4 16 1011606 BOLT-HEX: .50 X 1.25 NC GR5 ZP 1 17 1016362 BOLT-CRG: .38 X 1.25 NC GR5 ZP 1 18 1016999 NUT-TOPLOCK: .38 NC GR5 ZP 1 19 1013537 NUT-TOPLOCK: .75 NC GR5 ZP 1 20 1011581 WASHER-LOCK: .50 ZP 8 21 234516 TUBE-SPACER 2 22 234965 ASSY-DISC BLADE 2 23 234517 RETAINER-DUST CAP 2 24 66834 BOLT-HEX: .25 X .63 NC GR5 6 25 1013427 NUT-CENTERLOCK 6 26 1011624 BOLT-HEX: .63 X 3.00 NC GR5 ZP 2 27 1026259 NUT-JAM: .63 NC GR2 ZP 4 28 234515<		234506	ARM SHORT LEFT	
12 234513 STRAP-GUARD 1 234520** STRAP-EXTENDED GUARD 13 67409 SPACER-CENTER CARRIER 1 14 1011577 NUT-HEX: .50 NC ZP 4 15 33036 WASHER-FLAT: .50 ZP HD 4 16 1011606 BOLT-HEX: .50 X 1.25 NC GR5 ZP 1 17 1016362 BOLT-CRG: .38 X 1.25 NC GR5 ZP 1 18 1016999 NUT-TOPLOCK: .38 NC GR5 ZP 1 19 1013537 NUT-TOPLOCK: .75 NC GR5 ZP 1 20 1011581 WASHER-LOCK: .50 ZP 8 21 234516 TUBE-SPACER 2 22 234965 ASSY-DISC BLADE 2 23 234517 RETAINER-DUST CAP 2 24 66834 BOLT-HEX: .25 X .63 NC GR5 6 25 1013427 NUT-CENTERLOCK 6 26 1011624 BOLT-HEX: .63 X 3.00 NC GR5 ZP 2 27 1026259 NUT-JAM: .63 NC GR2 ZP 4 28 234515 SPRING-ARM DISC LH 1 294514 <td>11</td> <td>67131</td> <td>WLDMT-ARM LONG RIGHT</td> <td>1</td>	11	67131	WLDMT-ARM LONG RIGHT	1
234520** STRAP-EXTENDED GUARD 13 67409 SPACER-CENTER CARRIER 1 14 1011577 NUT-HEX: .50 NC ZP 4 15 33036 WASHER-FLAT: .50 ZP HD 4 16 1011606 BOLT-HEX: .50 X 1.25 NC GR5 ZP 1 17 1016362 BOLT-CRG: .38 X 1.25 NC GR5 ZP 1 18 1016999 NUT-TOPLOCK: .38 NC GR5 ZP 1 19 1013537 NUT-TOPLOCK .75 NC GR5 ZP 1 20 1011581 WASHER-LOCK: .50 ZP 8 21 234516 TUBE-SPACER 2 22 234965 ASSY-DISC BLADE 2 23 234517 RETAINER-DUST CAP 2 24 66834 BOLT-HEX: .25 X .63 NC GR5 6 25 1013427 NUT-CENTERLOCK 6 26 1011624 BOLT-HEX: .63 X 3.00 NC GR5 ZP 2 27 1026259 NUT-JAM: .63 NC GR2 ZP 4 28 234515 SPRING-ARM DISC LH 1		234509	WLDMT-ARM SHORT RIGHT	
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14 1011577 NUT-HEX: .50 NC ZP 4 15 33036 WASHER-FLAT: .50 ZP HD 4 16 1011606 BOLT-HEX: .50 X 1.25 NC GR5 ZP 1 17 1016362 BOLT-CRG: .38 X 1.25 NC GR5 ZP 1 18 1016999 NUT-TOPLOCK: .38 NC GR5 ZP 1 19 1013537 NUT-TOPLOCK .75 NC GR5 ZP 1 20 1011581 WASHER-LOCK: .50 ZP 8 21 234516 TUBE-SPACER 2 22 234965 ASSY-DISC BLADE 2 23 234517 RETAINER-DUST CAP 2 24 66834 BOLT-HEX: .25 X .63 NC GR5 6 25 1013427 NUT-CENTERLOCK 6 26 1011624 BOLT-HEX: .63 X 3.00 NC GR5 ZP 2 27 1026259 NUT-JAM: .63 NC GR2 ZP 4 28 234515 SPRING-ARM DISC RH 1 234514 SPRING-ARM DISC LH 1		234520**	STRAP-EXTENDED GUARD	
15 33036 WASHER-FLAT: .50 ZP HD 4 16 1011606 BOLT-HEX: .50 X 1.25 NC GR5 ZP 1 17 1016362 BOLT-CRG: .38 X 1.25 NC GR5 ZP 1 18 1016999 NUT-TOPLOCK: .38 NC GR5 ZP 1 19 1013537 NUT-TOPLOCK: .75 NC GR5 ZP 1 20 1011581 WASHER-LOCK: .50 ZP 8 21 234516 TUBE-SPACER 2 22 234965 ASSY-DISC BLADE 2 23 234517 RETAINER-DUST CAP 2 24 66834 BOLT-HEX: .25 X .63 NC GR5 6 25 1013427 NUT-CENTERLOCK 6 26 1011624 BOLT-HEX: .63 X 3.00 NC GR5 ZP 2 27 1026259 NUT-JAM: .63 NC GR2 ZP 4 28 234515 SPRING-ARM DISC RH 1 234514 SPRING-ARM DISC LH 1	13	67409	SPACER-CENTER CARRIER	1
16 1011606 BOLT-HEX: .50 X 1.25 NC GR5 ZP 1 17 1016362 BOLT-CRG: .38 X 1.25 NC GR5 ZP 1 18 1016999 NUT-TOPLOCK: .38 NC GR5 ZP 1 19 1013537 NUT-TOPLOCK .75 NC GR5 ZP 1 20 1011581 WASHER-LOCK: .50 ZP 8 21 234516 TUBE-SPACER 2 22 234965 ASSY-DISC BLADE 2 23 234517 RETAINER-DUST CAP 2 24 66834 BOLT-HEX: .25 X .63 NC GR5 6 25 1013427 NUT-CENTERLOCK 6 26 1011624 BOLT-HEX: .63 X 3.00 NC GR5 ZP 2 27 1026259 NUT-JAM: .63 NC GR2 ZP 4 28 234515 SPRING-ARM DISC RH 1 234514 SPRING-ARM DISC LH 1	14	1011577	NUT-HEX: .50 NC ZP	4
17 1016362 BOLT-CRG: .38 X 1.25 NC GR5 ZP 1 18 1016999 NUT-TOPLOCK: .38 NC GR5 ZP 1 19 1013537 NUT-TOPLOCK .75 NC GR5 ZP 1 20 1011581 WASHER-LOCK: .50 ZP 8 21 234516 TUBE-SPACER 2 22 234965 ASSY-DISC BLADE 2 23 234517 RETAINER-DUST CAP 2 24 66834 BOLT-HEX: .25 X .63 NC GR5 6 25 1013427 NUT-CENTERLOCK 6 26 1011624 BOLT-HEX: .63 X 3.00 NC GR5 ZP 2 27 1026259 NUT-JAM: .63 NC GR2 ZP 4 28 234515 SPRING-ARM DISC RH 1 234514 SPRING-ARM DISC LH 1	15	33036	WASHER-FLAT: .50 ZP HD	4
18 1016999 NUT-TOPLOCK: .38 NC GR5 ZP 1 19 1013537 NUT-TOPLOCK .75 NC GR5 ZP 1 20 1011581 WASHER-LOCK: .50 ZP 8 21 234516 TUBE-SPACER 2 22 234965 ASSY-DISC BLADE 2 23 234517 RETAINER-DUST CAP 2 24 66834 BOLT-HEX: .25 X .63 NC GR5 6 25 1013427 NUT-CENTERLOCK 6 26 1011624 BOLT-HEX: .63 X 3.00 NC GR5 ZP 2 27 1026259 NUT-JAM: .63 NC GR2 ZP 4 28 234515 SPRING-ARM DISC RH 1 234514 SPRING-ARM DISC LH 1	16	1011606	BOLT-HEX: .50 X 1.25 NC GR5 ZP	1
19 1013537 NUT-TOPLOCK .75 NC GR5 ZP 1 20 1011581 WASHER-LOCK: .50 ZP 8 21 234516 TUBE-SPACER 2 22 234965 ASSY-DISC BLADE 2 23 234517 RETAINER-DUST CAP 2 24 66834 BOLT-HEX: .25 X .63 NC GR5 6 25 1013427 NUT-CENTERLOCK 6 26 1011624 BOLT-HEX: .63 X 3.00 NC GR5 ZP 2 27 1026259 NUT-JAM: .63 NC GR2 ZP 4 28 234515 SPRING-ARM DISC RH 1 234514 SPRING-ARM DISC LH 1	17	1016362		1
20 1011581 WASHER-LOCK: .50 ZP 8 21 234516 TUBE-SPACER 2 22 234965 ASSY-DISC BLADE 2 23 234517 RETAINER-DUST CAP 2 24 66834 BOLT-HEX: .25 X .63 NC GR5 6 25 1013427 NUT-CENTERLOCK 6 26 1011624 BOLT-HEX: .63 X 3.00 NC GR5 ZP 2 27 1026259 NUT-JAM: .63 NC GR2 ZP 4 28 234515 SPRING-ARM DISC RH 1 234514 SPRING-ARM DISC LH 1	18	1016999	NUT-TOPLOCK: .38 NC GR5 ZP	1
21 234516 TUBE-SPACER 2 22 234965 ASSY-DISC BLADE 2 23 234517 RETAINER-DUST CAP 2 24 66834 BOLT-HEX: .25 X .63 NC GR5 6 25 1013427 NUT-CENTERLOCK 6 26 1011624 BOLT-HEX: .63 X 3.00 NC GR5 ZP 2 27 1026259 NUT-JAM: .63 NC GR2 ZP 4 28 234515 SPRING-ARM DISC RH 1 234514 SPRING-ARM DISC LH 1	19	1013537	NUT-TOPLOCK .75 NC GR5 ZP	1
22 234965 ASSY-DISC BLADE 2 23 234517 RETAINER-DUST CAP 2 24 66834 BOLT-HEX: .25 X .63 NC GR5 6 25 1013427 NUT-CENTERLOCK 6 26 1011624 BOLT-HEX: .63 X 3.00 NC GR5 ZP 2 27 1026259 NUT-JAM: .63 NC GR2 ZP 4 28 234515 SPRING-ARM DISC RH 1 234514 SPRING-ARM DISC LH 1	20	1011581	WASHER-LOCK: .50 ZP	8
23 234517 RETAINER-DUST CAP 2 24 66834 BOLT-HEX: .25 X .63 NC GR5 6 25 1013427 NUT-CENTERLOCK 6 26 1011624 BOLT-HEX: .63 X 3.00 NC GR5 ZP 2 27 1026259 NUT-JAM: .63 NC GR2 ZP 4 28 234515 SPRING-ARM DISC RH 1 234514 SPRING-ARM DISC LH 1	21	234516	TUBE-SPACER	2
24 66834 BOLT-HEX: .25 X .63 NC GR5 6 25 1013427 NUT-CENTERLOCK 6 26 1011624 BOLT-HEX: .63 X 3.00 NC GR5 ZP 2 27 1026259 NUT-JAM: .63 NC GR2 ZP 4 28 234515 SPRING-ARM DISC RH 1 234514 SPRING-ARM DISC LH 1	22	234965	ASSY-DISC BLADE	2
25 1013427 NUT-CENTERLOCK 6 26 1011624 BOLT-HEX: .63 X 3.00 NC GR5 ZP 2 27 1026259 NUT-JAM: .63 NC GR2 ZP 4 28 234515 SPRING-ARM DISC RH 1 234514 SPRING-ARM DISC LH 1	23	234517	RETAINER-DUST CAP	2
26 1011624 BOLT-HEX: .63 X 3.00 NC GR5 ZP 2 27 1026259 NUT-JAM: .63 NC GR2 ZP 4 28 234515 SPRING-ARM DISC RH 1 234514 SPRING-ARM DISC LH 1	24	66834	BOLT-HEX: .25 X .63 NC GR5	6
27 1026259 NUT-JAM: .63 NC GR2 ZP 4 28 234515 SPRING-ARM DISC RH 1 234514 SPRING-ARM DISC LH 1	25	1013427	NUT-CENTERLOCK	6
28 234515 SPRING-ARM DISC RH 1 234514 SPRING-ARM DISC LH 1	26	1011624	BOLT-HEX: .63 X 3.00 NC GR5 ZP	2
234514 SPRING-ARM DISC LH 1	27	1026259	NUT-JAM: .63 NC GR2 ZP	4
	28	234515	SPRING-ARM DISC RH	1
29 66057 CAP-DUST 2		234514	SPRING-ARM DISC LH	1
	29	66057	CAP-DUST	2

^{*}ITEMS 21-29 ARE COMPONENTS OF ITEMS 8 & 9

^{**234520} IS A LONGER STRAP FOR DUAL SHOOT CONFIGURATIONS

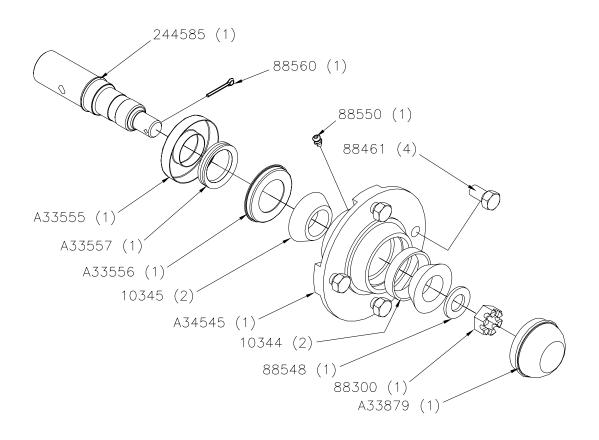
4 BOLT PACKER HUB & SPINDLE - THRU 2008



240482 - COMPLETE HUB & SPINDLE ASSY PAINTED BLACK

DESCRIPTION	QTY
BEARING CUP 2.328 OD (LM67010)	1
BEARING CONE 1-1/4ID (LM67048)	1
BEARING CONE 3/4ID (LM11949)	1
SEAL	1
BEARING CUP 25/32OD (LM11910)	1
DUST CAP	1
PACKER WHEEL SPINDLE	1
4 BOLT WHEEL HUB (58054)	1
4 BOLT PRESSED HUB	1
BLT WHL 1/2-20NFX1 (13/16 HEAD)	4
NUT SLTD 3/4-16NF 5Z	1
WSHR FLAT 3/4SAE(13/16X1-1/2) Z	1
PIN COT 1/8DIAX1-1/4 Z	1
	BEARING CUP 2.328 OD (LM67010) BEARING CONE 1-1/4ID (LM67048) BEARING CONE 3/4ID (LM11949) SEAL BEARING CUP 25/32OD (LM11910) DUST CAP PACKER WHEEL SPINDLE 4 BOLT WHEEL HUB (58054) 4 BOLT PRESSED HUB BLT WHL 1/2-20NFX1 (13/16 HEAD) NUT SLTD 3/4-16NF 5Z WSHR FLAT 3/4SAE(13/16X1-1/2) Z

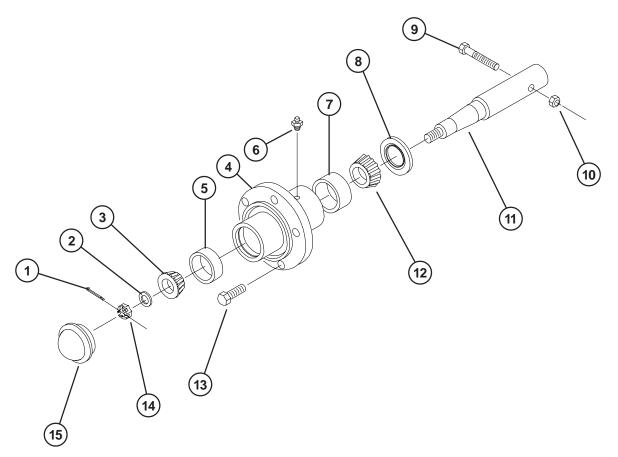
4 BOLT PACKER HUB & SPINDLE - 2009 & LATER



243985 - COMPLETE HUB & SPINDLE ASSY PAINTED BLACK

PART NO.	DESCRIPTION	QTY
10344	BEARING CUP 2.328 OD (LM67010)	2
10345	BEARING CONE 1-1/4ID (LM67048)	2
244585	PACKER SPINDLE	1
88300	NUT SLTD 3/4-16NF 5Z	1
89461	BLT-WHL 1/2-20 UNF X .75	4
88548	WSHR FLAT 3/4SAE(13/16X1-1/2) Z	1
88550	FTG GRS 1/4-28 3038-B	1
88560	PIN COT 1/8DIAX1-1/4 Z	1
A33555	SEAL RETAINER	1
A33556	SEAL COUNTERFACE	1
A33557	V-SEAL	1
A33879	HUB CAP	1
A34545	PACKER HUB	1

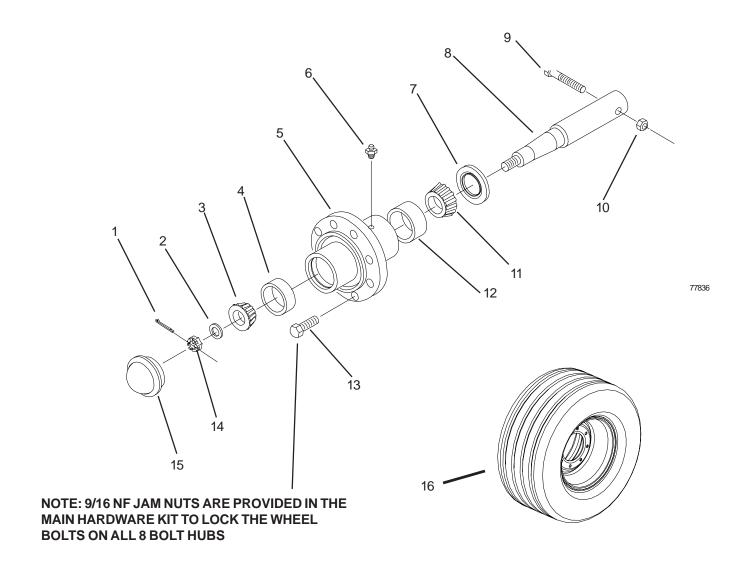
6-BOLT HUB & 2" SPINDLE



7783	R PI	Т

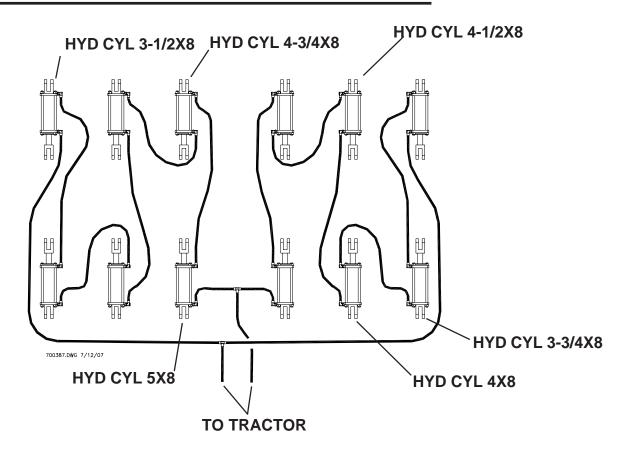
ITEM	PART NO.	DESCRIPTION
	14131	2" HUB & SPINDLE ASSY
		(INCLUDES 1-8 &11-15)
1	88301	PIN COT 3/16DIAx1-1/2
2	16094	SPINDLE WASHER 7/8ID
3	10345	BEARING CONE 1-1/4ID (LM67048)
4	24097	6-BOLT HUB W/CUPS
5	10344	BEARING CUP 2.328 OD (LM67010)
6	88263	FTG GRS 1/8NPT 1610-BL(11/16")
7	14249	BEARING CUP 2.891 OD (LM501310)
8	58546	2" TRIPLE LIP SEAL
9	88429	1/2NFx3-1/4 GR5 BOLT
10	88304	NUT 2POSLK 1/2NF
11	14251	2" AXLE SPINDLE
12	14248	BEARING CONE 1-5/8ID (LM501349)
13	88142	WHEEL BOLT 1/2NFx1 (13/16 HEAD)
14	88340	NUT SLTD 7/8NF
15	11381	DUST CAP

8-BOLT HUB & 2-1/2" SPINDLE

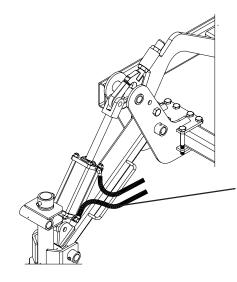


ITEM	PART NO	DESCRIPTION	ITEM	PART NO	DESCRIPTION
	16154	8-BOLT HUB & SPINDLE (RED)	8	16156	2-1/2" AXLE SPINDLE (14-3/4)
		(INCLUDES ITEMS 1-8 & 11-15)	9	88298	5/8NCx4 GR5 BOLT
1	88301	3/16x1-1/2 COTTER PIN	10	88369	5/8NC LOCK NUT
2	64050	2-1/20Dx1-1/16ID SPINDLE WASHER	11	16083	INNER BEARING CONE (TIMKIN# 3780)
3	16081	OUTER BEARING CONE (TIMKIN# 2790)	12	16084	INNER BEARING CUP (TIMKIN# 3720)
4	16082	OUTER BEARING CUP (TIMKIN# 2720)	13	63831	9/16NFx1-1/8 90° WHEEL BOLT
5	41054	8-BOLT PRESSED HUB (RED)	14	88299	1NF SLOTTED NUT
		(INCLUDES ITEMS 4, 6 &12)	15	16077	DUST CAP
6	88143	1/4NPT GREASE FITTING	16	222259	31x13.5 12 PLY 8 BOLT WHEEL
7	16080	2-1/2" TRIPLE LIP SEAL (PRIOR 2003)			ASSY
	235298	2-1/2" TRIPLE LIP SEAL (2003 AND UP)		20319	6 15x10 WHEEL RIM
				57908	VALVE ASSEMBLY
				22208	8 31x13.5 12PLY TIRE

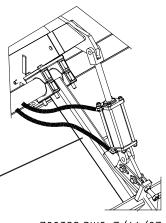
MAIN LIFT BYPASS CYLINDER CIRCUIT



REFER TO PAGE 37 FOR LOCATIONS OF CYLINDERS ON THE MAIN UNIT

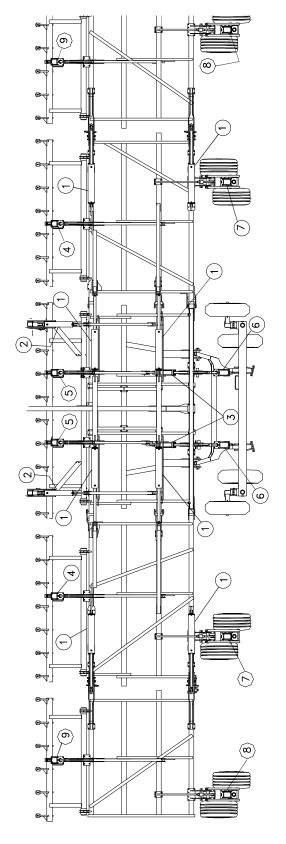


NOTE: CYLINDERS ON FRONT LIFT AXLES AND REAR PACKER LIFTS MUST BE MOUNTED WITH RODS UP AND PORTS TO THE SIDE. FAILURE TO ORIENTATE AS INDICATED CAN CAUSE PORT INTERFERENCE, CHECK FOR INTERFERENCE BEFORE AND WHILE ACTIVATING ALL CYLINDERS.



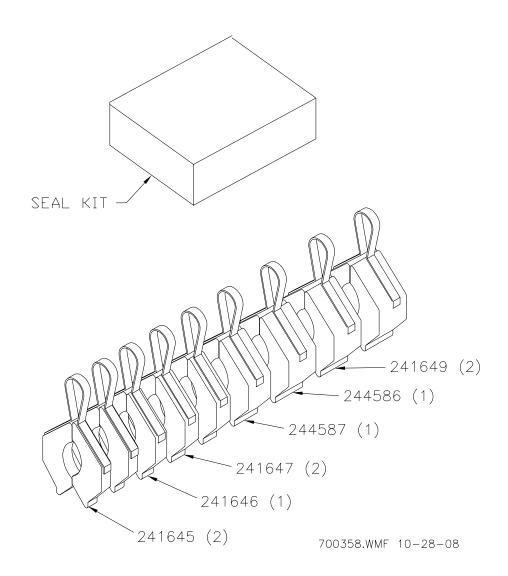
700388.DWG 7/11/07

CYLINDER LOCATIONS



40'QT	4	2	2	2	2	2	2	0	0
60' QTY 40' QT	∞	2	2	2	2	2	2	2	2
DESCRIPTION	HYD CYL 5X30 FGS #A519CY07	HYD CYL 4X16 FGS #A519CY26	HYD CYL 4" X 12" (BLACK)	HYD CYL 4-1/2X8 SEQ	HYD CYL 4-3/4X8 SEQ	HYD CYL 5X8 SEQ	HYD CYL 4X8 WITH SPACER	HYD CYL 3-3/4X8 WITH SPACER	HYD CYL 3-1/2X8 WITH SPACER
PART NO.	20966F	222213F1	234764	241622	241623	241624	241663	241664	241665
ITEM#	1	2	3	4	2	9	7	8	6

HYDRAULIC STOP COLLARS & SEAL KITS



PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
243994	PAINTED STOP COLLAR KIT	244586	1-7/16IN CYLINDER STOP - BLUE
233838	SEAL KIT 4IN (FGS-SK-ACGZ4Q2Q)	241670	SEAL KIT 4IN ATD BP CYL
241645	1/2IN CYLINDER STOP - RED	241671	SEAL KIT 4-1/2IN ATD BP CYL
241646	5/8IN CYLINDER STOP - ORANGE	241672	SEAL KIT 4-3/4IN ATD BP CYL
241647	3/4IN CYLINDER STOP - YELLOW	241673	SEAL KIT 5IN ATD BP CYL
241649	1-1/2IN CYLINDER STOP - GRAY	W104625	SEAL KIT 5X36 CYL
244587	1-1/4IN CYLINDER STOP - GREEN		

HYDRAULIC STOP COLLARS COMBINATIONS

STOP COLLAR COMBINATIONS

	I																		GY	GY								I
							GY	GY	GY	GY	GY	GY			GY	GY	GY	GY	В	GY	GY	GY	GY	GY		GY		
	СУ	GY	GY	GY	GY	GY	В	GY	В	GY	В	GY	GY	GY	В	GY	GY	GY	Y	Y	В	GY	В	GY	GY	GY		
	В	GY	В	GY	В	GY	Y	Y	Y	Y	Y	Y	В	GY	ÜN	GN	GN	ÜN	Y	Y	GN	GN	GN	GN	GY	В		
	Y	Y	Y	Ā	ND	ND	0	0	Ā	Ā	Ā	Y	ND	ND	0	0	Ā	Ā	0	0	Ā	Ā	Ā	Ā	В	Ā		
	Y	Y	Y	Ā	R	R	R	R	R	R	0	0	Ā	Ā	R	R	R	R	R	R	Ā	Ā	Ā	Ā	CN	Ā		
	R	R	0	0	R	R	R	R	R	R	R	R	Ā	Ā	R	R	R	R	R	R	R	R	0	0	Y	0		
TOTAL	4.94	5	90.5	5.12	5.18	5.25	5.31	2.38	5.44	5.5	92.5	5.62	69:5	2.75	5.81	88.5	5.94	9	90'9	6.12	6.18	6.25	6.31	98:9	6.44	95'9		
											В	GY											GY	GY	GY	GY	GY	GY
	В	GY	В	GY							Y	Y	GY	GY	GY	GY			GY	GY	GY	GY	В	GY	GY	GY	В	GY
	Y	Y	Y	Y	GR	GY	GY	GY	GY	GY	0	0	В	GY	В	GY	GY	GY	В	GY	В	GY	0	0	Y	Y	Y	Y
	R	R	0	0	В	GY	В	GY	В	GY	R	R	R	R	0	0	N	GY	Y	Y	Y	Y	R	R	R	R	0	0
	R	R	R	R	R	R	0	0	Ā	Ā	R	R	R	R	R	R	CN	CN	0	0	Ā	Ā	R	R	R	R	R	R
TOTAL	3.18	3.25	3.31	3.38	3.44	3.5	3.56	3.62	3.69	3.75	3.81	3.88	3.94	4	4.06	4.12	4.18	4.25	4.31	4.38	4.44	4.5	4.56	4.62	4.69	4.75	4.81	4.88
																											В	GY
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TOTAL	1	1.12	1.25	1.38	1.44	1.5	1.62	1.75	1.88	1.94	2	2.06	2.12	2.18	2.25	2.38	2.44	2.5	2.56	2.62	2.69	2.75	2.81	2.88	2.94	3	3.06	3.12

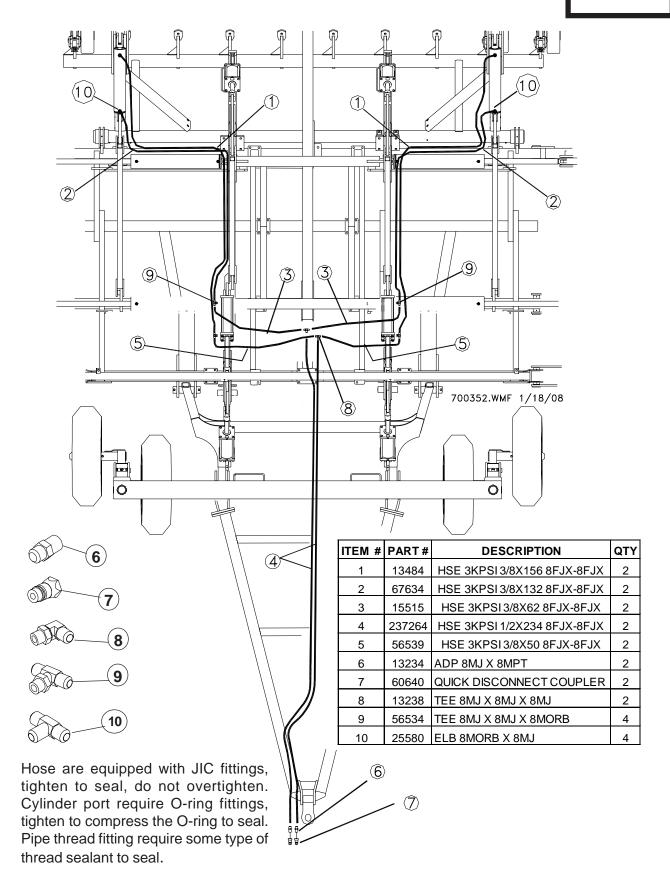
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GREEN	CN	1.25
BLUE	В	1.438
GRAY	ДŊ	1.5

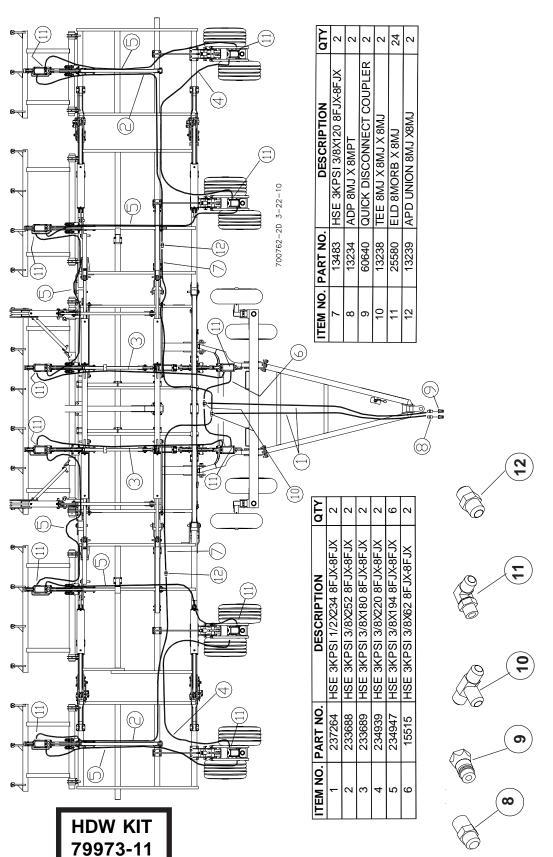
Œ	R	0.5
JRANGE	0	0.625
(ELLOW	Y	0.75

HOSE ROUTING - 50'/60' TRANSPORT LIFT

HDW KIT 74285-13



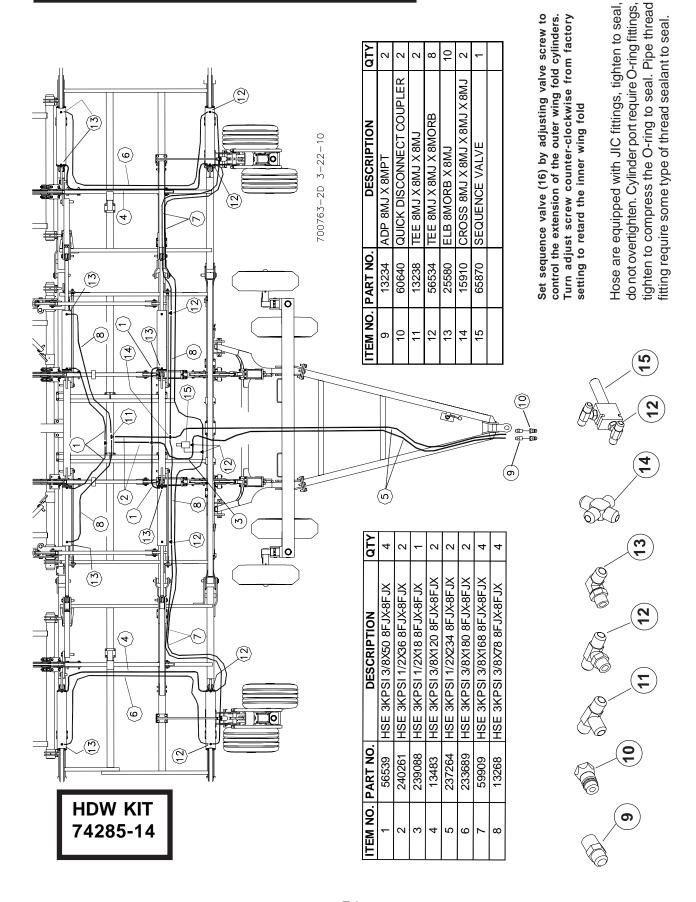
HOSE ROUTING - 50' MAIN LIFT



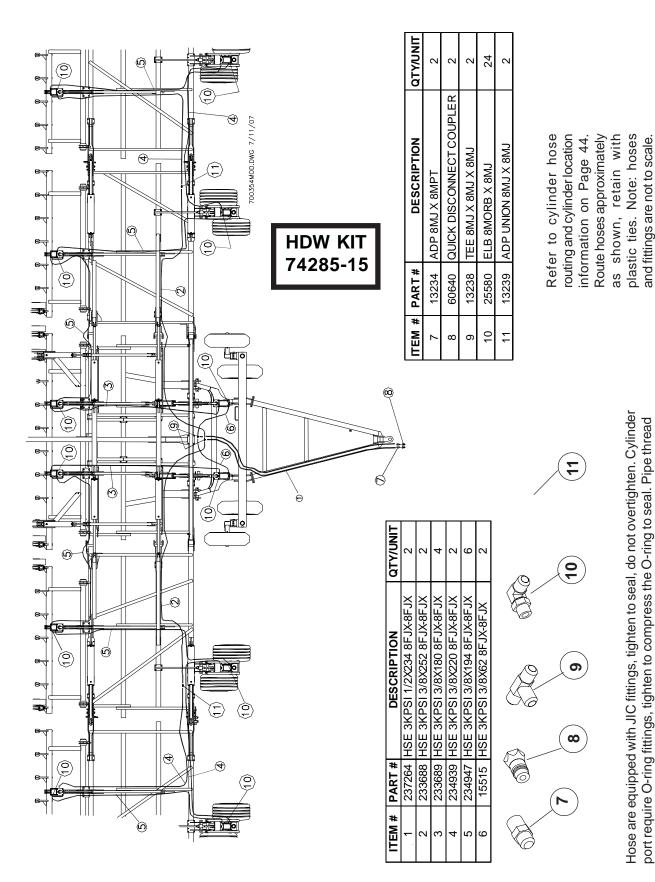
Refer to cylinder hose routing and cylinder location information on Page 44. Route hoses approximately as shown, retain with plastic ties. Note: hoses and fittings are not to scale.

Hose are equipped with JIC fittings, tighten to seal, do not overtighten. Cylinder port require O-ring fittings, tighten to compress the O-ring to seal. Pipe thread fitting require some type of thread sealant to seal.

HOSE ROUTING - 50' WING FOLD



HOSE ROUTING - 60' MAIN LIFT

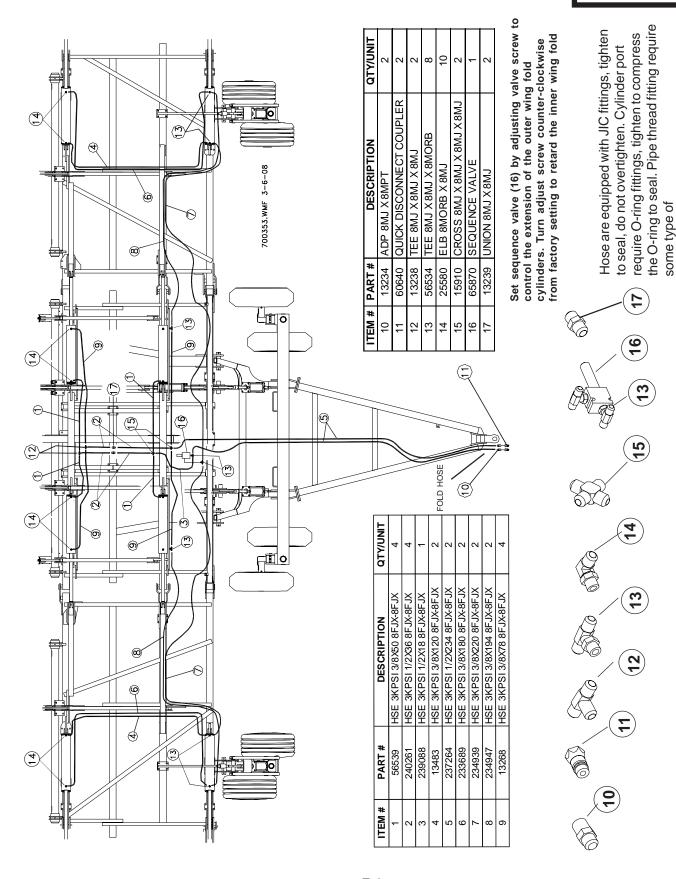


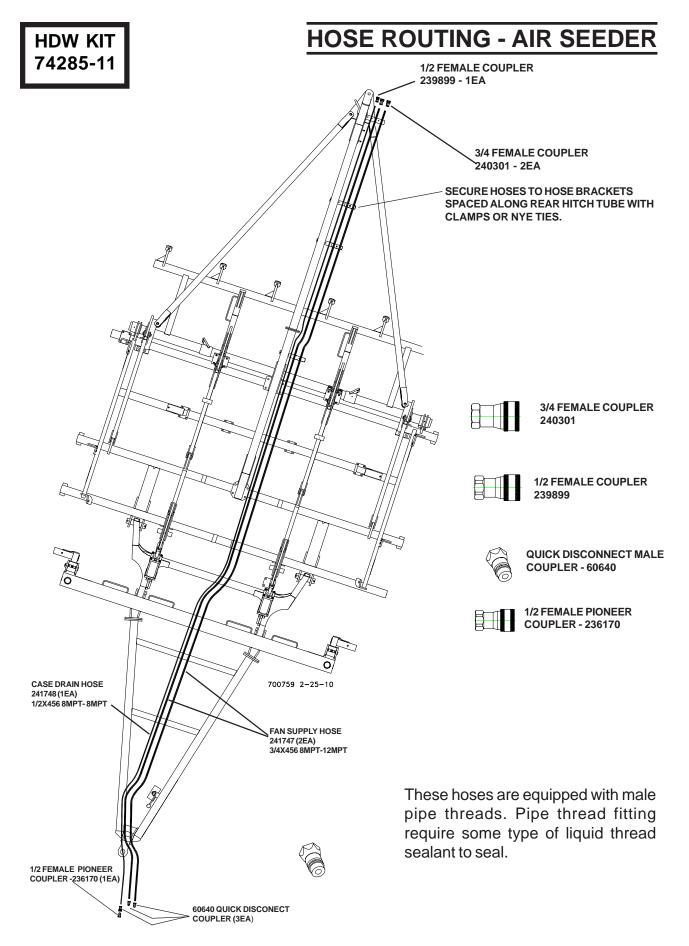
5015/6015 ATD ASSY/OPER/PARTS MANUAL (79973) 1/11

itting require some type of thread sealant to seal.

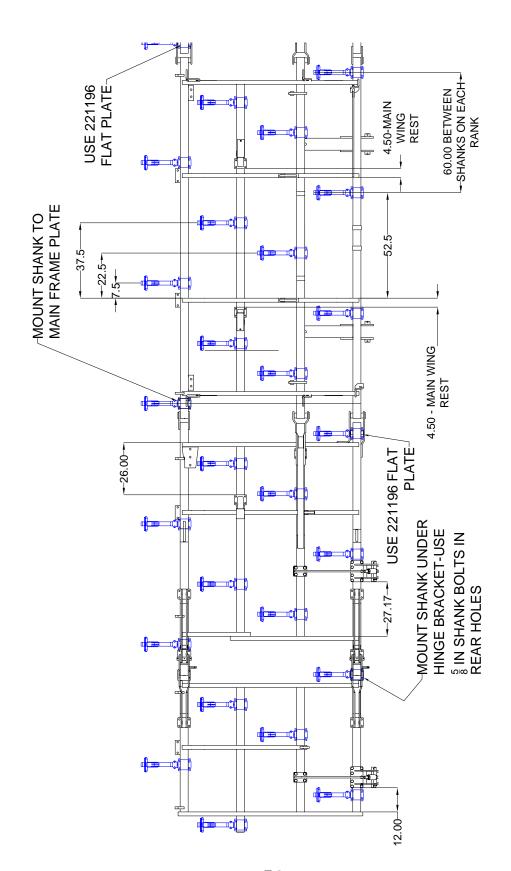
HOSE ROUTING - 60' WING FOLD

HDW KIT 74285-14

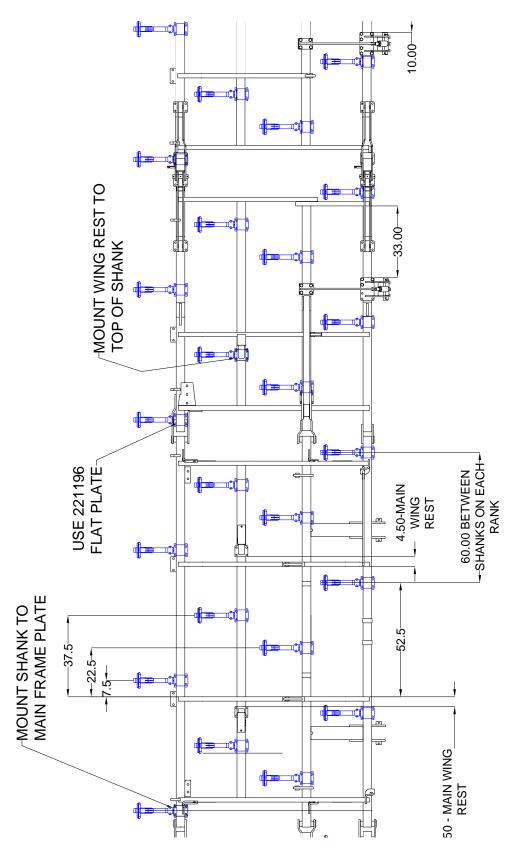




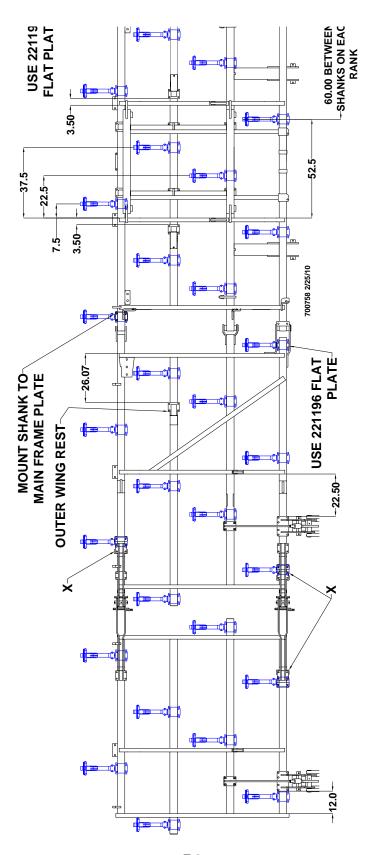
RIGHT SIDE SHANK SPACINGS - 50 FT



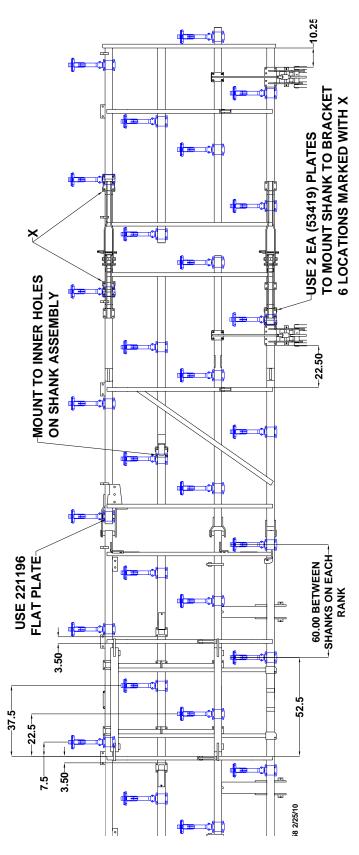
LEFT SIDE SHANK SPACINGS - 50 FT



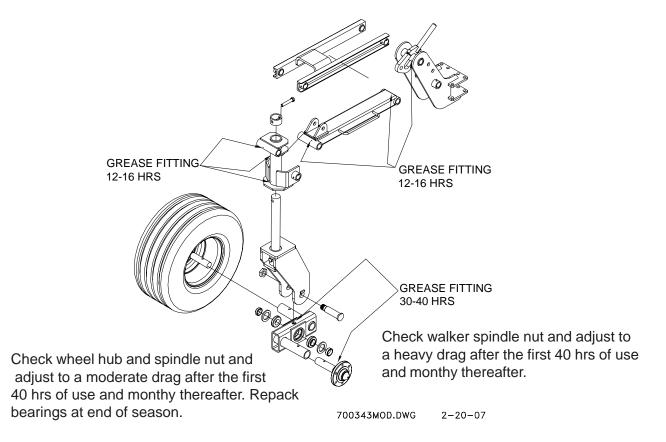
RIGHT SIDE SHANK SPACINGS - 60 FT



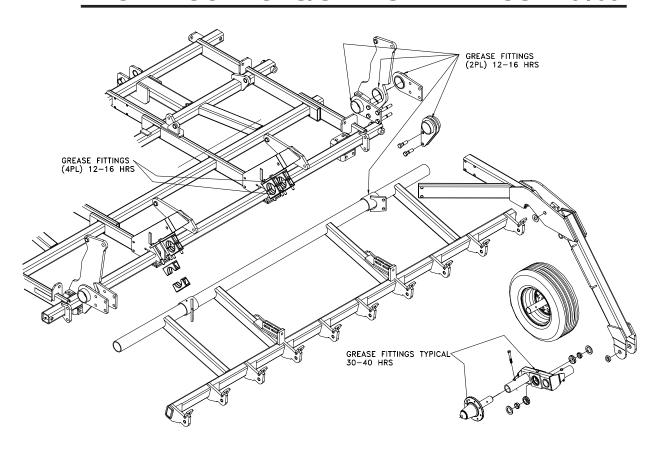
LEFT SIDE SHANK SPACINGS - 60 FT

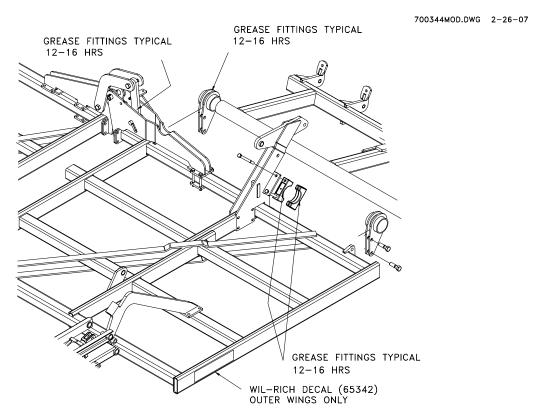


DECAL LOCATIONS/GREASE FITTINGS - 40'/60'



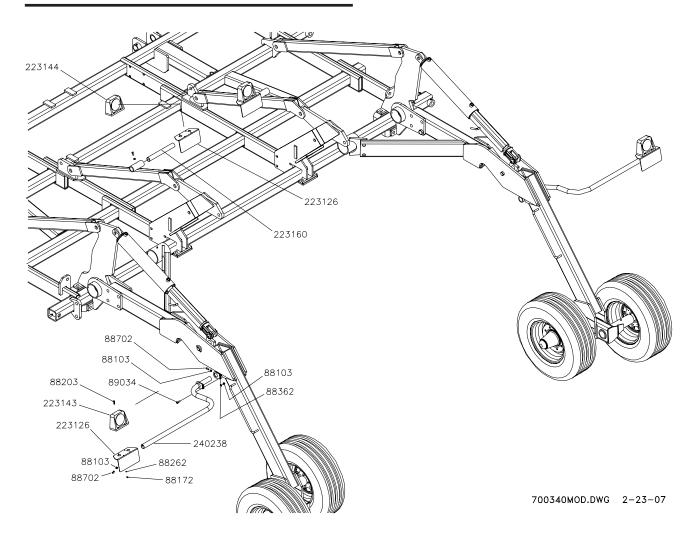
DECAL LOCATIONS/GREASE FITTINGS - 40'/60'





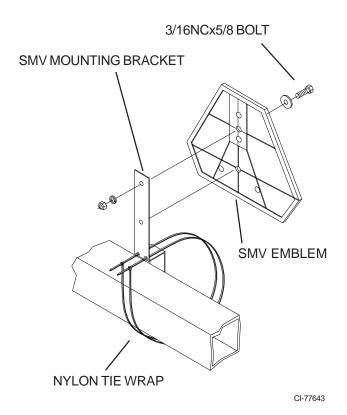
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SAFETY LIGHTS MOUNTING



PART NO.	DESCRIPTION	QTY
223126	LIGHT/REFLECTOR BRACKET	4
223143	AG LIGHT, SINGLE AMBER TRI-PLUG	2
223144	AG LIGHT, SINGLE RED TRI-PLUG	2
223160	12 LIGHT ARM	2
240238	48IN OFFSET LIGHT ARM W/LOCK	2
88103	NUT HEX 3/8-16NC 5Z	12
88172	NUT HEX 1/4-20NC 5Z	16
88203	BLT HEX 1/4-20NCX1 5Z	16
88262	WSHR HLK 1/4ID(5/16ACT) Z	16
88362	WSHR HLK 3/8ID Z	2
88702	SCR SET 3/8NCX3/4 SQHD CUP-PT P	10
89034	BLT HEX 3/8NC X 1 5Z	2

SAFETY



The bracket provided is designed to mount to numerous frame sizes and can be orientated in numerous positions to avoid interference with implement components.

The SMV emblem is to be secured as near to the rear and centered, or as near to the left of center of the implement as possible.

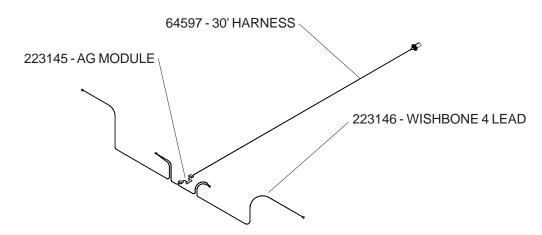
Emblem is to be 2 to 6 feet above the ground measured from the ground edge of the emblem.

Keep safety decals clean. Replace any safety decals that are damaged, destroyed, missing, painted over or can no longer be read. Replacement safety decals are available through your dealer.

SAFETY LIGHTS

NOTE: REFER TO LIGHT PLACEMENT INSTRUCTIONS SPECIFIC TO THIS UNIT. THIS SHOWS BASIC WIRE CONNECTIONS.

NOTE: MOUNT AMBER LIGHTS AS WIDE AS POSSIBLE. THE AMBER LIGHTS MUST BE MOUNTED NO MORE THAN 16" FROM THE IMPLEMENT EXTREMITIES.



NOTE: ROUTE LIGHT HARNESS THRU LIGHT ARMS. SEE PAGE 43 FOR LIGHT PLACEMENT.