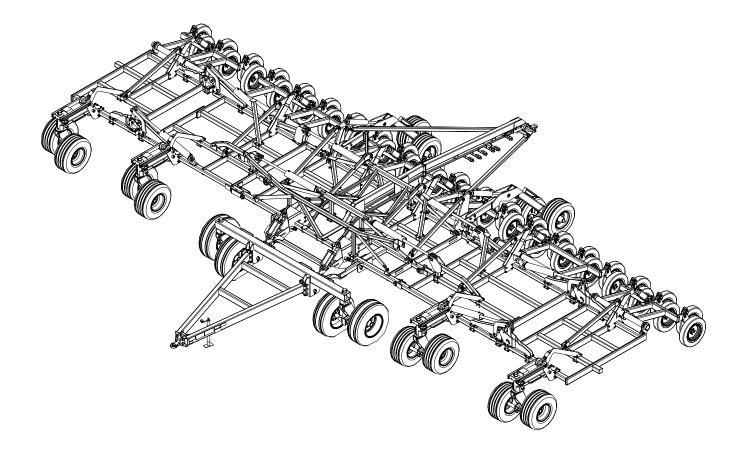
5015/6015 AIR TILL DRILL

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 RE-QUEST.

This Safety Alert symbol means ATTENTION! BECOME ALERT YOUR SAFETY IS IN-VOLVED! The Safety Alert symbol identifies important safety messages on your Wil-Rich DOT Disk and in this manual. When you see this symbol, be alert to the possibility of personal injury or death. Follow the instructions in the safety message.

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.

ASSEMBLY INFORMATION

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.

The right and left side of the machine is determined by standing behind the machine and facing the direction the machine will travel in operation.

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.

| Bolt Size | Grade 2 | | Gra | Grade 5 | | Grade 8 | |
|-----------|---------|---------|----------|--------------------|------|---------|--|
| | Nm | Lbf ft | Nm | Lbf ft | Nm | Lbf ft | |
| 5/16-18 | 15 | 11 | 24 | 17 | 33 | 25 | |
| 3/8-16 | 27 | 20 | 42 | 31 | 59 | 44 | |
| 7/16-14 | 43 | 32 | 67 | 49 | 95 | 70 | |
| 1/2-13 | 66 | 49 | 105 | 76 | 145 | 105 | |
| 9/16-12 | 95 | 70 | 150 | 110 | 210 | 155 | |
| 5/8-11 | 130 | 97 | 205 | 150 | 285 | 210 | |
| 3/4-10 | 235 | 170 | 360 | 265 | 510 | 375 | |
| 7/8-9 | 225 | 165 | 585 | 430 | 820 | 605 | |
| 1-8 | 340 | 250 | 875 | 645 | 1230 | 910 | |
| | Star | ndard B | olt Iden | tificatio | n | | |
| | | | | | | | |
| | | | | Grade 8 6 Marks | | | |

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.

Abbreviations

| ASSY | Assembly |
|-------|--------------------------|
| BLD | |
| BLT | |
| | |
| BRKT | |
| CTR | |
| СР | |
| (FF) | |
| GR | Grade of Bolt |
| HD | Heavy Duty |
| HDWE | Hardware |
| HLK | Hecial Lock Washer |
| LH | Left Hand |
| (MF) | Male Female |
| MF | Main Frame |
| MTG | Mounting |
| NC | . National Course Thread |
| NF | National Fine Thread |
| NLK | Nvlon Lock Nut |
| NPT | National Pipe Thread |
| PLW | |
| RH | |
| SS | 0 |
| SST | |
| ТА | |
| твр | |
| W/ | |
| W/O | |
| WLDMT | |
| WSHR | |
| | |

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 |
|------|----------------------|----------------------|
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TO THE OWNER

MODIFICATIONS

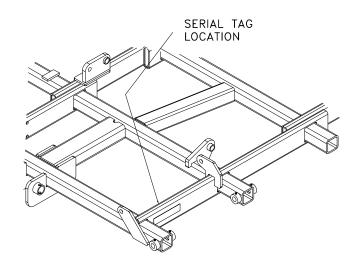
The machine has as standard equipment a clearance lighting package. If your unit is not equipped with this package, it can be ordered by contacting your local dealer or the factory directly.

It is the responsibility of the user to read the Operator's Manual and comply with the 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 the proper use and reviews and understands the Operator's Manual. This machine should only be operated by a trained operator that has been qualified to operate this machine.

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. It is company policy 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. Use the information on this tag to identify when ordering parts or requesting information



MACHINE ASSEMBLY PROCEDURE

Read all assembly instructions before starting assembly of this machine.

This machine will be packed in a condensed format, usually on a packaging skid. This package will be very heavy and will require the use of some type of forklift to unload the package and break down the parts. The forklift must have a minimum lift capacity of 4082 kg (9000 lbs). Because the various frame components are arranged in a vertical manner, any handling equipment must be able to adequately lift and position to a height of 3.7 m (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.

WARNING: The components banded together are heavy and could fall if the bands were removed. Make sure the component 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 machine. Assembly of this machine will require some type of stands to support the components during assembly. Each stand should be at least 36 in (915 mm) tall and be able to support at least 907 kg (2000 lbs). 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 otherwise specified, all nuts are top lock nuts. When assembling the components, do not tighten the lock nuts until all parts have been assembled. Tighten the nuts to hold the parts in position, but still allow adjustments to be made.

Position and support the inner wings level with the main frame and secure with the noted hardware. Mount the outer wing hinge components to the inner and outer wing and attach the outer wing to the inner wing. Support all frames with work stands.

Mount the shank assemblies in the positions shown on shank mounting location pages. 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.

Locate the main frame and wing packer towers and attach to the rear of the frame, secure with the mast tubes. Assemble the center packer mount to the center packer lift brackets and secure with axle clamps and hardware. 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 part

of the rear hitch to the main frame and secure as noted.

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. Place the inner and outer wing rests as noted and loosely secure.

Locate and attach the Main Lift Hitch and related parts to the front of the main frame with the pins provided, 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 and secure. Insert hubs and spindles and rims and tires.

HYDRAULIC SYSTEM ASSEMBLY

The drill portion of this machine requires three hydraulic circuits to properly operate.

MAIN LIFT CIRCUIT

The main lift circuit is used to raise and lower the complete machine. It consists of a set of 203 mm (8 in) stroke sequencing cylinders of varying diameter which, when properly connected and adjusted, will move the machine in a level manner. Machine 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 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 machine as shown in the hose routing instructions (88-93). 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 ties provided.

WING FOLD CIRCUIT

The inner and outer wings are operated by large 127 mm (5 in) hydraulic cylinders. Refer to the cylinder location instructions for proper orientation of the cylinders. 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 ties provided.

TRANSPORT LIFT CIRCUIT

There are two sets of lift cylinders that are used to lift and hold the machine in the transport position. These cylinders are connected in a simple circuit as noted in the assembly instructions. Attach the base end of the 102 to 305 mm (4 to 12 in) cylinders to the anchor on the main frame and the rod end to the front lift mast. Attach the base end of the 102x406 mm (4x16 in) 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 ties provided.

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.

IMPORTANT: The systems on this machine will require a large amount of hydraulic oil to fully charge and purge. Make sure the system used to charge the circuits has adequate capacity and a minimum hydraulic pressure of 1995 kPa (2700 psi). Oil may need to be added to the pump reservoir to complete charging. All circuits must be fully charged before lifting or folding this machine.

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 127 b 203 mm (5x8 in) 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 machines 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.

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. 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.

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.

REAR PACKER ASSEMBLY

The main components of the rear packers are pre-assembled. Locate these assemblies and move to the rear of the machine. 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 machine has been fully assembled and before the machines 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 machine.

Attach the machine to the tractor that will be used with the machine. The tractor must have a minimum of 343 kW (460 hp) for 15.2 m (50 ft) machines and 373 kW (500 hp) for 18.3 m (60 ft) machines.

Connect all hoses to the tractor. Raise the machine 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 machine in an open area. Activate the transport lift circuit to raise the rear transport wheels so that the rear of the machine is carried by the rear packer wheels.

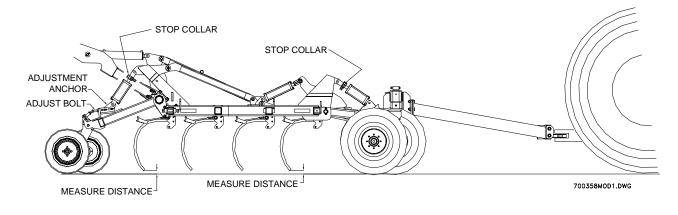
Make certain that all points or attachments are mounted on the machine before doing any prefield settings.

NOTE: Any settings completed in the yard may need to be altered once the machine 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 machine down so the shanks are 50 to 76 mm (2 to 3 in) above the ground as shown below. Measure the distance to the ground from a point of a shank on the front rank of the machine. Pick a shank on the outside of the main frame Measure from the same point of a shank on outside rear of the machine.

If the machine 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 machine.

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 machine side to side.

To relieve the pressure on the adjustment anchors to make the adjusting easier, lower the machine 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 machine so the shanks are 50 to 76 mm (2 to 3 in) off the ground. Measure as before and continue to fine tune the machine level.



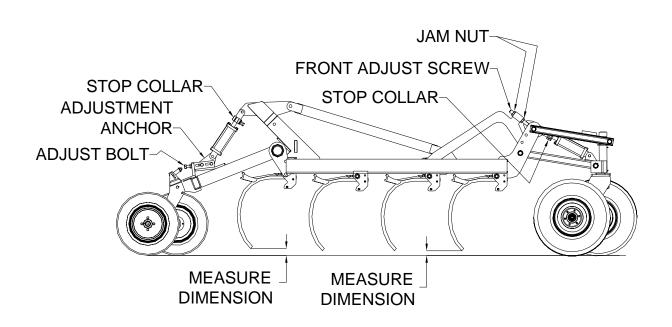
PRE-FIELD SETTINGS INNER AND OUTER WINGS

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 machine 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 machine 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 machine. 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 machine. 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 machine is seeding deep all cylinders would have a 6.4 mm (1/4 in) stop collar added. As the machine is cycled it may require that the lift system be re-sequenced. Raise the machine and hold the cylinders in the extended position until all cylinders have been purged.



WING FOLDING/UNFOLDING

After the machine has been charged and levelled it can be winged up to the transport position. Make certain that the machine is hitched to a tractor and setting on a level surface when folding the wings. If possible move the machine 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 machine 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.



WARNING: Install channel locks on each (4) transport lift cylinders before attempting to fold the wings or transporting the machine.

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 machine in loose ground conditions. Skidding can be reduced by slowly moving forward with the machine as the wings are folded. Forward movement is only required when the wing packer wheels are skidding.



WARNING: Do not allow any people or children 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 machine. 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.

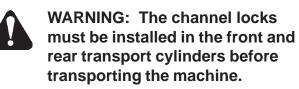
Once both outer wings have been folded, continue to fold the inner wings. These wings should fold to a vertical position. As the wings approach the vertical position activate the main lift circuit and pull the packer wheels and front lift wheels up. This is necessary to allow clearance in the center of the machine 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.

IMPORTANT: The front main frame wing rest has provisions to lock or pin the wings for transport. 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. 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 or the outer wing cylinders don't full extend, 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 THE MACHINE

The machine must be fully folded with the wings locked before transporting.



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 machine at high speeds during field use or on the highway.



WARNING: Do not exceed the maximum transport speed of 25 km/h (15 mph).

Make certain the tractor is properly weighted to handle the heavy pull load. Use care when moving across uneven ground or poor roads. Reduce the speed of the machine on narrow, rough roads. Do not carry the machine 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 machine up when attached to

the seeder supply tank. With the wings folded and no tank is attached it is possible to carefully back the machine a short distance.



WARNING: Lower the main wings to the ground and make sure the main frame carrying wheels are rotated to the front BEFORE unhitching the machine from the tractor.

STORAGE

Machine should be stored inside and unfolded if possible Park the machine in a flat, level area. Unfold the wings to remove the load from the main frame carrying wheels.



WARNING: Lower the main wings and the entire machine to the ground BEFORE removing the transport channel locks. Relieve the system hydraulic pressure in the wing fold circuit before storing the machine.

If the machine is parked on a soft surface place support under the lift wheels to prevent sinking into the ground. When storing the machine 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 assembly and pre-field settings the machine 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 machine. 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 machine 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 machine 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 machine to full height and hold for 1 minute. Place the same combination of stop collars in all remaining lift cylinders. Lower the machine 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. IMPORTANT: 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 machine. 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 to 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 98-99 for grease locations and frequency.

TIRE INFLATION

The front lift and rear transport tires should be inflated to 414 to 448 kPa (60 to 65 psi). If there appears to be sidewall flex in the large front center lift tires the pressure can be increased to 552 to 586 kPa (80 to 85 psi).

The rear packer tires can be set at 103 to 241 kPa (15 to 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 105 kPa (15 psi) and increase or decrease as conditions dictate.



WARNING: Lower the machine to the ground, shut off the tractor engine, and remove the key before servicing the machine or when not in use.

DO NO allow anyone to ride on the machine.

Keep all persons clear of the machine and tractor when the engine is operating.

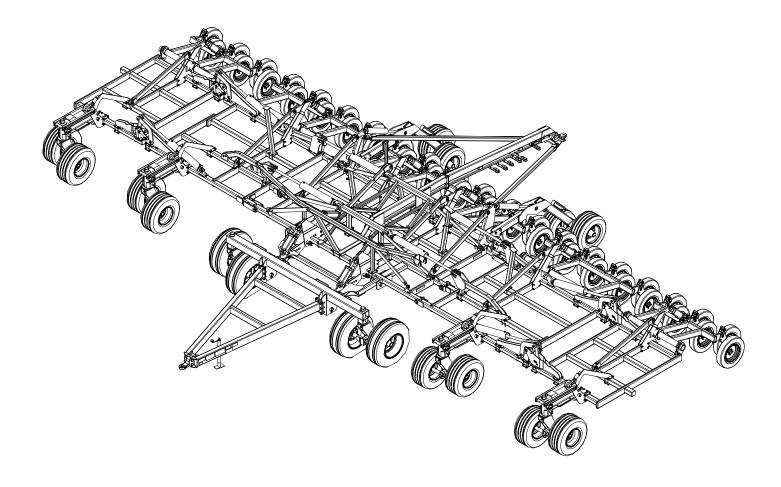
UNLESS SPECIFIED ALL BOLTS ARE SECURED WITH TOP-LOCK LOCK NUTS

| 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 |

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FULL MACHINE OVERVIEW

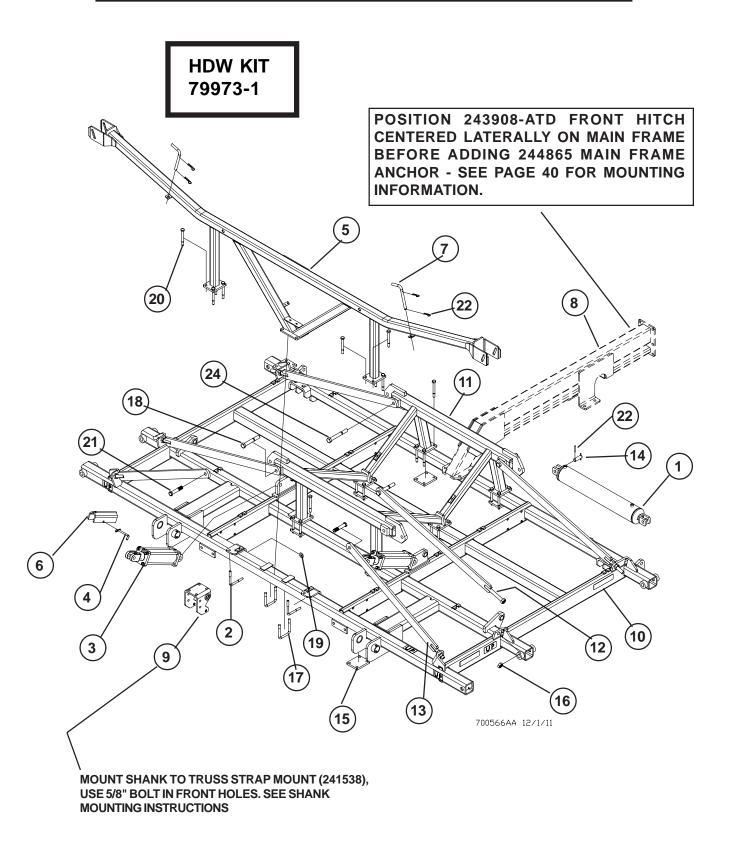
This illustration shows an overview of the complete 18.3 M (60 FT) machine as a reference guide to understanding the general layout of the machine. The layout of the 15.2 M (50 FT) machine is similar. Please refer to the individual assembly instructions for specific information.





Information in these boxes on the following pages reference the corresponding Hardware Kit. The hardware kit contains the hardware used to assemble the portion of the machine noted on that page.

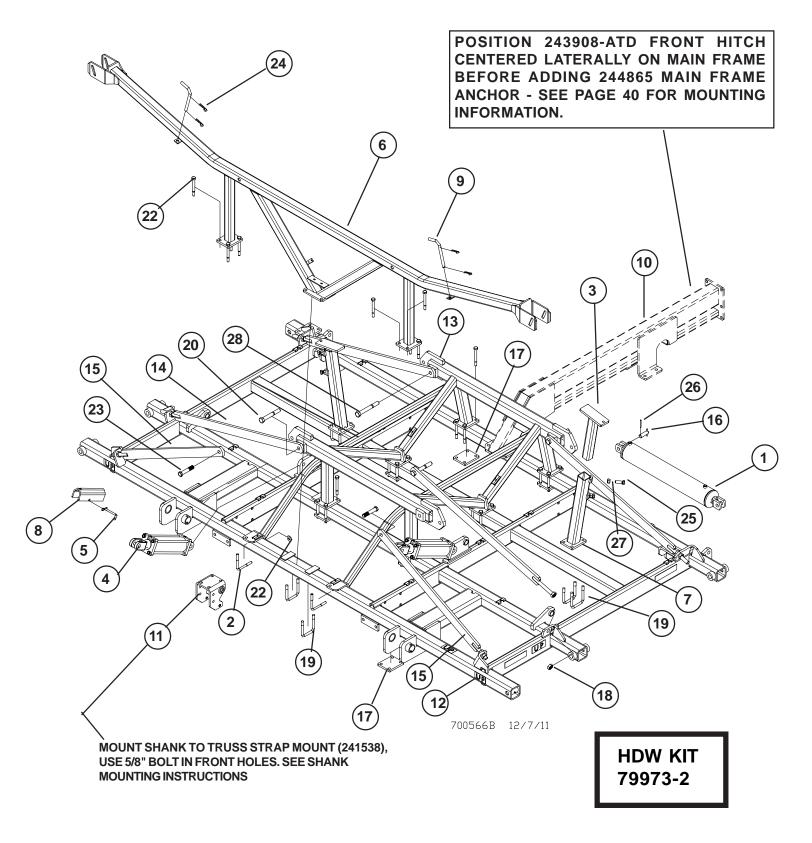
MAIN FRAME ASSEMBLY - 15.2 M (50 FT) UNIT



MAIN FRAME ASSEMBLY - 15.2 M (50 FT) UNIT

| ITEM | PART NO. | DESCRIPTON | QTY |
|------|----------|-----------------------------------|-----|
| 1 | 20966F | HYD CYL 5X30 ILP FGS #A519CY07 | 4 |
| 2 | 22290 | L-BOLT 5/8 IN FOR 4 SQ TUBE | 2 |
| 3 | 234764 | HYD CYL 4" X 12" (BLACK) | 2 |
| 4 | 234811 | 1/2 X 4 BENT PIN W/HAIRPIN | 2 |
| 5 | 241538 | TRUSS STRAP MOUNT | 1 |
| 6 | 241640 | 12 INCH CHANNEL LOCK | 12 |
| 7 | 241652 | WING LOCK PIN (PLATED) | 2 |
| 8 | 243908 | ATD HITCH - SHORT FRONT - REF | 1 |
| 9 | 243957 | SHANK HOLDER - REFERENCE | 1 |
| 10 | 244832 | MAIN FRAME - 5015/6015 ATD | 1 |
| 11 | 244865 | MAIN FRAME ANCHOR 50/6015 ATD | 1 |
| 12 | 244881 | TRUSS STRAP | 4 |
| 13 | 244887 | TRUSS STRAP | 2 |
| 14 | 42473 | HEADLESS PIN (H) (2) 1X2-3/8 | 4 |
| 15 | 62271 | FRAME PLATE (RED) | 7 |
| 16 | 88125 | NUT HEX 1-8NC 5Z | 12 |
| 17 | 88145 | BLT-U 5/8-11NCX4X5-1/4 Z | 2 |
| 18 | 88181 | BLT HEX 1-8NC X 7 5Z | 2 |
| 19 | 88277 | WSHR FLAT 5/8(11/16 X 1-3/4ACT) Z | 2 |
| 20 | 88295 | BLT HEX 5/8-11NC X 6 5Z | 32 |
| 21 | 88312 | BLT HEX 1-8NC X 5 5Z | 2 |
| 22 | 88352 | PIN SPRLK 3/16 X 3-1/4 PRLS6 Z | 4 |
| 23 | 88767 | PIN ROLL 1/4DIA X 2-1/2 Z | 8 |
| 24 | 89359 | BLT HEX 1-8NC X 8 8YZ | 2 |

MAIN FRAME ASSEMBLY - 18.3 M (60 FT) UNIT

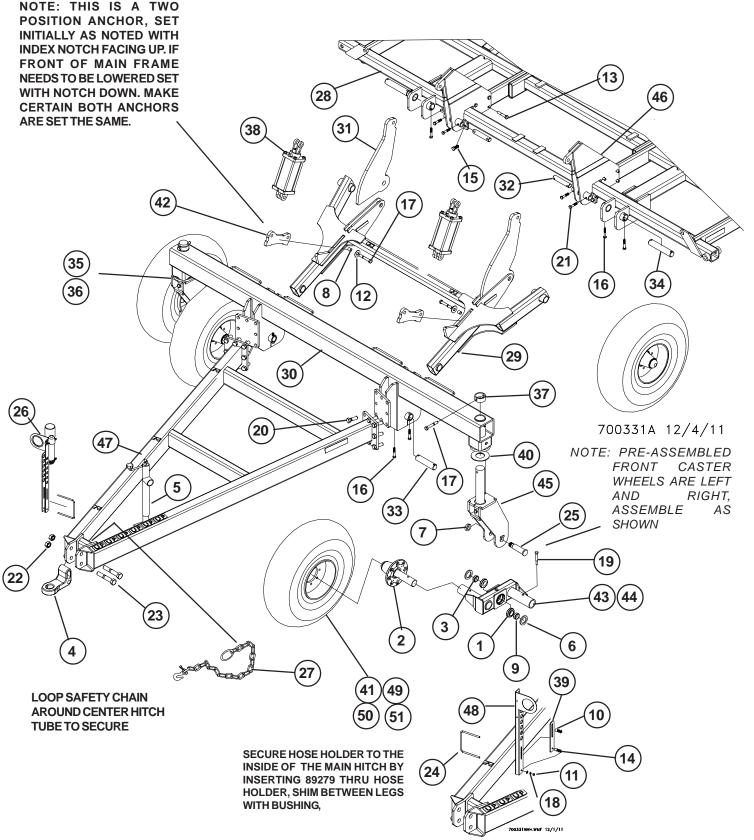


MAIN FRAME ASSEMBLY - 18.3 M (60 FT) UNIT

| ITEM | PART NO. | DESCRIPTION | QTY |
|------|----------|-----------------------------------|-----|
| 1 | 20966F | HYD CYL 5X30 ILP FGS #A519CY07 | 2 |
| 2 | 22290 | L-BOLT 5/8 IN FOR 4 SQ TUBE | 2 |
| 3 | 233552 | WING REST SLIDE TUBE | 2 |
| 4 | 234764 | HYD CYL 4" X 12" (BLACK) | 2 |
| 5 | 234811 | 1/2 X 4 BENT PIN W/HAIRPIN | 2 |
| 6 | 241538 | TRUSS STRAP MOUNT | 1 |
| 7 | 241634 | INNER WING REST - ATD | 2 |
| 8 | 241640 | 12 INCH CHANNEL LOCK | 2 |
| 9 | 241652 | WING LOCK PIN (PLATED) | 2 |
| 10 | 243908 | ATD HITCH - SHORT FRONT - REF | 1 |
| 11 | 243957 | SHANK HOLDER - REFERENCE | 1 |
| 12 | 244832 | MAIN FRAME - 5015/6015 ATD | 1 |
| 13 | 244865 | MAIN FRAME ANCHOR 50/6015 ATD | 1 |
| 14 | 244881 | TRUSS STRAP | 4 |
| 15 | 244887 | TRUSS STRAP | 2 |
| 16 | 42473 | HEADLESS PIN (H) (2) 1X2-3/8 | 4 |
| 17 | 62271 | FRAME PLATE (RED) | 7 |
| 18 | 88125 | NUT HEX 1-8NC 5Z | 12 |
| 19 | 88145 | BLT-U 5/8-11NCX4X5-1/4 Z | 8 |
| 20 | 88181 | BLT HEX 1-8NC X 7 5Z | 2 |
| 21 | 88277 | WSHR FLAT 5/8(11/16 X 1-3/4ACT) Z | 2 |
| 22 | 88295 | BLT HEX 5/8-11NC X 6 5Z | 32 |
| 23 | 88312 | BLT HEX 1-8NC X 5 5Z | 2 |
| 24 | 88352 | PIN SPRLK 3/16 X 3-1/4 PRLS6 Z | 4 |
| 25 | 88604 | BLT HEX 3/4-10NC X 2 5Z | 4 |
| 26 | 88767 | PIN ROLL 1/4DIA X 2-1/2 Z | 8 |
| 27 | 89080 | NUT HEX 3/4-10NC 8YZ | 4 |
| 28 | 89359 | BLT HEX 1-8NC X 8 8YZ | 2 |

FRONT HITCH ASSEMBLY

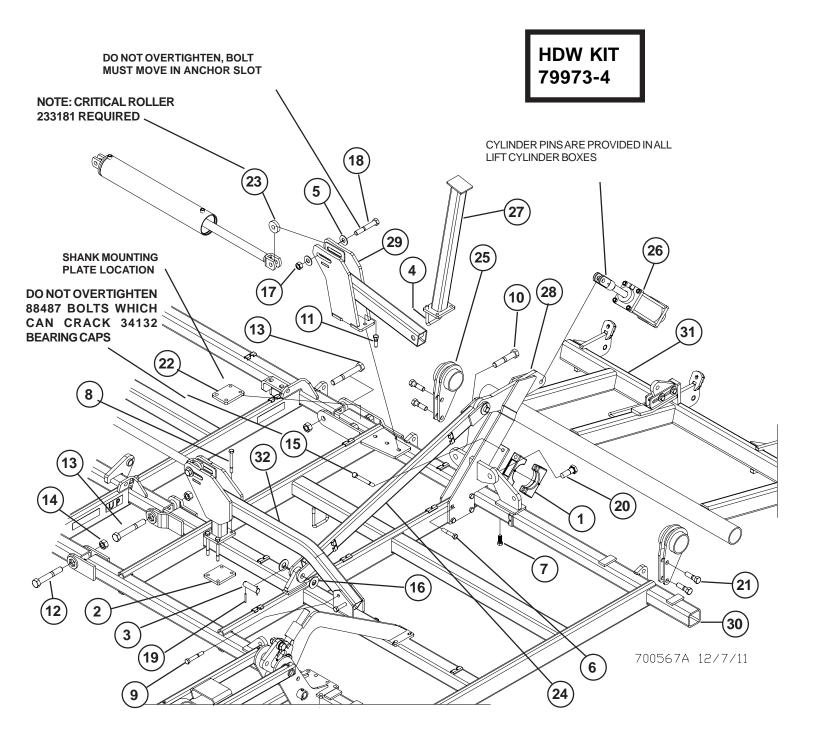
HDW KIT 79973-3



FRONT HITCH ASSEMBLY

| | DADTNO | RECORDETION | |
|----------|-----------|-----------------------------------|--------|
| ITEM | PART NO. | DESCRIPTION | QTY |
| 1 | 12103 | BEARING CONE 1-3/4ID (25580) | 4 |
| 2 | 16154 | 2-1/2IN HUB&SPINDLE ASSY | 4 |
| 3 | 16278 | BEARING BUSHING | 2 |
| 4 | 18236 | CAST DUAL HITCH | 1 |
| 5 | 24415 | JACK | 1 |
| 6 | 26120 | SEAL | 4 |
| 7 | 42082 | 1-1/2NF HYDRA JAM LOCK NUT | 2 |
| 8 | 51468 | BUSHING | 2 |
| 9 | 54599 | WALKER BEARING BUSHING | 2 |
| 10 | 59884 | 3/40D X .75 IDLER BUSHING | 2 |
| 11 | 88103 | NUT HEX 3/8-16NC 5Z | 2 |
| 12 | 88131 | WSHR FLAT 3/4(13/16X2ACT) Z | 2 |
| 13 | 88272 | BLT HEX 3/4-10NCX4 5Z | 8 |
| 14 | 88282 | WSHR FLAT 3/8(7/16X1ACT) Z | 2 |
| 15 | 88290 | BLT HEX 3/4-10NCX2 8YZ | 4 |
| 16 | 88292 | BLT HEX 5/8-11NCX3-1/2 5Z | 8 |
| 17 | 88305 | BLT HEX 3/4-10NCX5 5Z | 4 |
| 18 | 88362 | WSHR HLK 3/8ID Z | 2 |
| 19 | 88381 | BLT HEX 5/8-11NCX4-1/2 5Z | 4 |
| 20 | 88399 | BLT HEX 1-8NCX3 5Z | 16 |
| 21 | 88408 | BLT HEX 5/8-11NCX3 5Z | 4 |
| 22 | 88430 | NUT 2POSLK 1-1/4-7NC 5Z | 2 |
| 23 | 89134 | BLT HEX 1-1/4-7NCX7 5Z | 2 |
| 24 | 89279 | BLT-U 3/8-16NCX7X6-1/4 Z | 1 |
| 25 | 235245 | TANDEM PIN | 2 |
| 26 | 236094 | UTILITY POLEKIT 5 X 7 | 1 |
| 27 | 238225 | 40K SAFETY CHAIN | 1 |
| 28 | 240438 | MAIN FRAME - ATD | 1 |
| 29 | 240447 | MAIN LIFT HITCH - ATD | 2 |
| 30 | 240466 | MAIN HITCH CROSS | 1 |
| 31 | 240498 | TRANSPORT ANCHOR | 2 |
| 32 | 241519 | PIVOT PIN | 2 |
| 33 | 241546 | FRONT PIN (PLATED) | 2 |
| 34 | 241547 | FRONT PIN (PLATED) | 2 |
| 35 | 241552 | LEFT MAIN AXLE WALKER ASSY | 1 |
| 36 | 241553 | RIGHT MAIN AXLE WALKER ASSY | 1 |
| 37 | 241563 | TOPTUBE | 2 |
| 38 | 241624 | HYD CYL 5X8 SEQ | 2 |
| 39 | 241777 | BACKING PLATE | - |
| 40 | 242932 | LARGE WEAR PLATE | 2 |
| 41 | 320362 | WHL W-440/55R18 159AFS24TL | 4 |
| 42 | 350918 | MAIN HITCH LIFT ANCHOR | 2 |
| 43 | 221347D1 | RIGHT 3X11 HD WALKING TANDEM | - 1 |
| 44 | 221347D1R | LEFT 3X11 HD WALKING TANDEM | 1 |
| 45 | 237722R1 | FRONT AXLE PIVOT -ATD | 2 |
| 45 | 240493 | FRONT LIFT MAST | 2 |
| 40 47 | 240493 | MAIN HITCH - ATD | 1 |
| 47 48 | 236142 | FORMED CHANNEL-HYD HOSE BRKT | 1 |
| 40 49 | | | 1 |
| 49 50 | 320363 | WHEEL-14 X 18" W/HOLE (BLACK) | 1 |
| JU | 320364 | TIRE-440/55R18IMP 159A8/B TL (GY) | Т |

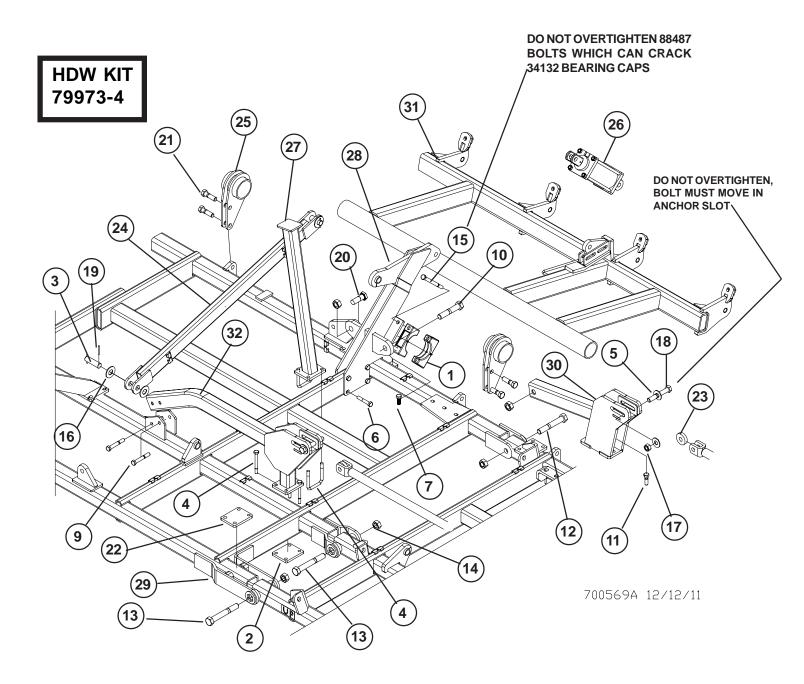
LEFT INNER WING ASSEMBLY- 15.2 M (50 FT) UNIT



LEFT INNER WING ASSEMBLY- 15.2 M (50 FT) UNIT

| ITEM | PART NO. | DESCRIPTION | QTY |
|------|----------|---------------------------------|-----|
| 1 | 34132 | AXLE CLAMP ASSEMBLY (RED) | 4 |
| 2 | 62271 | FRAME PLATE (RED) | 1 |
| 3 | 67854 | HEADLESS PIN(2) 1-1/4X4-1/2 | 2 |
| 4 | 88145 | BLT-U 5/8-11NCX4X5-1/4 Z | 2 |
| | | WSHR FLAT 1(1-1/16X2-1/2ACT) Z | 4 |
| 6 | 88272 | BLT HEX 3/4-10NCX4 5Z | 4 |
| 7 | 88290 | BLT HEX 3/4-10NCX2 8YZ | 2 |
| 8 | 88295 | BLT HEX 5/8-11NCX6 5Z | 4 |
| | | BLT HEX 3/4-10NCX5 5Z | 2 |
| 10 | 88349 | BLT HEX 1-1/4-7NCX6-1/2 5Z | 1 |
| 11 | 88404 | BLT HEX 3/4-10NCX2-1/2 5Z | 3 |
| 12 | 88427 | BLT HEX 1-1/4-7NCX8 5Z | 1 |
| | | BLT HEX 1-1/4-7NCX9 5Z | 2 |
| 14 | 88430 | NUT 2POSLK 1-1/4-7NC 5Z | 3 |
| 15 | 88487 | BLT HEX 3/4-10NCX8-1/2 5Z | 6 |
| | | WSHR FLAT 1-1/4(1-3/8X3ACT) Z | 4 |
| 17 | 88658 | NUT TOP LK 1-8NC 5Z | 2 |
| 18 | 88666 | BLT HEX 1-8NCX6-1/2 5Z | 2 |
| 19 | 88767 | PIN ROLL 1/4DIAX2-1/2 Z | 4 |
| 20 | 89029 | BLT HEX 1-1/4-7NC X 4 5Z | 1 |
| 21 | 89371 | BLT HEX 1-8NCX3-1/2 8YZ | 4 |
| 22 | 221196 | MOUNT PLATE - PAINTED GRAY | 1 |
| 23 | 233181 | LINK DONUT (ZINC) | 2 |
| 24 | 240572 | LIFT MAST TUBE | 1 |
| 25 | 241513 | CENTER PACKER HANGER | 2 |
| | | HYD CYL 4-1/2X8 SEQ | 1 |
| 27 | 241633 | OUTER WING REST - ATD | 1 |
| 28 | 244869 | SHORT INNER WING PACKER TOWER | 1 |
| 29 | 245079 | REAR FOLD MAST 5015 ATD | 1 |
| | | LEFT INNER WING 5015 ATD | 1 |
| | | LEFT INNER PACKER GANG 5015 ATD | 1 |
| 32 | 245676 | FRONT WING ANCHOR 5015 ATD | 1 |

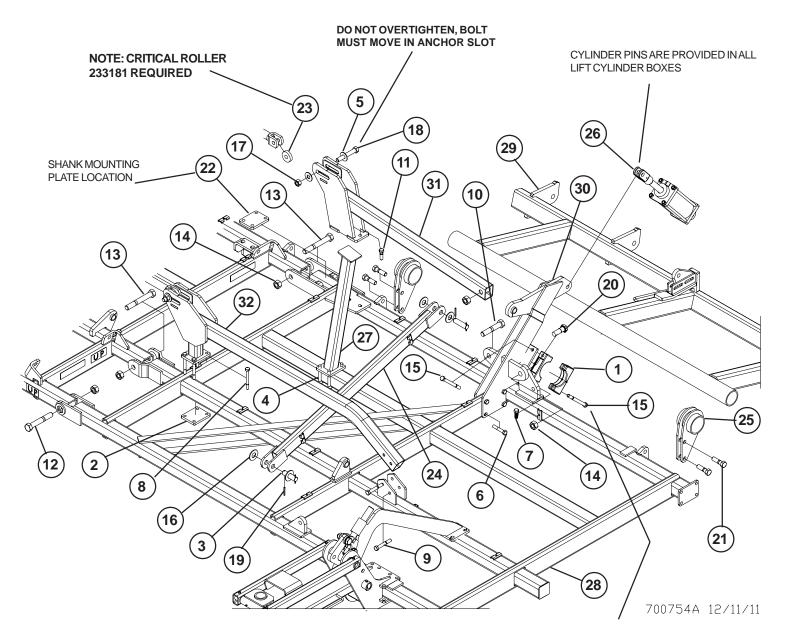
RIGHT INNER WING ASSEMBLY - 15.2 M (50 FT) UNIT



RIGHT INNER WING ASSEMBLY - 15.2 M (50 FT) UNIT

| ITEM | PART NO. | DESCRIPTION | QTY |
|------|----------|----------------------------------|-----|
| 1 | 34132 | AXLE CLAMP ASSEMBLY (RED) | 4 |
| 2 | 62271 | FRAME PLATE (RED) | 1 |
| 3 | 67854 | HEADLESS PIN(2) 1-1/4X4-1/2 | 2 |
| 4 | 88145 | BLT-U 5/8-11NCX4X5-1/4 Z | 2 |
| 5 | 88196 | WSHR FLAT 1(1-1/16X2-1/2ACT) Z | 4 |
| 6 | 88272 | BLT HEX 3/4-10NCX4 5Z | 4 |
| 7 | 88290 | BLT HEX 3/4-10NCX2 8YZ | 2 |
| 8 | 88295 | BLT HEX 5/8-11NCX6 5Z | 4 |
| 9 | 88305 | BLT HEX 3/4-10NCX5 5Z | 2 |
| 10 | 88349 | BLT HEX 1-1/4-7NCX6-1/2 5Z | 1 |
| 11 | 88404 | BLT HEX 3/4-10NCX2-1/2 5Z | 3 |
| 12 | 88427 | BLT HEX 1-1/4-7NCX8 5Z | 1 |
| 13 | 88428 | BLT HEX 1-1/4-7NCX9 5Z | 2 |
| 14 | 88430 | NUT 2POSLK 1-1/4-7NC 5Z | 5 |
| 15 | 88487 | BLT HEX 3/4-10NCX8-1/2 5Z | 4 |
| 16 | 88602 | WSHR FLAT 1-1/4(1-3/8X3ACT) Z | 4 |
| 17 | 88658 | NUT TOP LK 1-8NC 5Z | 2 |
| 18 | 88666 | BLT HEX 1-8NCX6-1/2 5Z | 2 |
| 19 | 88767 | PIN ROLL 1/4DIAX2-1/2 Z | 4 |
| 20 | 89029 | BLT HEX 1-1/4-7NC X 4 5Z | 1 |
| 21 | 89371 | BLT HEX 1-8NCX3-1/2 8YZ | 4 |
| 22 | 221196 | MOUNT PLATE - PAINTED GRAY | 1 |
| 23 | 233181 | LINK DONUT (ZINC) | 2 |
| 24 | 240572 | LIFT MAST TUBE | 1 |
| 25 | 241513 | CENTER PACKER HANGER | 2 |
| 26 | 241622 | HYD CYL 4-1/2X8 SEQ | 1 |
| 27 | 241633 | OUTER WING REST - ATD | 1 |
| 28 | 244869 | SHORT INNER WING PACKER TOWER | 1 |
| 29 | 245073 | RIGHT INNER WING 5015 ATD | 1 |
| 30 | 245079 | REAR FOLD MAST 5015 ATD | 1 |
| 31 | 245674 | RIGHT INNER PACKER GANG 5015 ATD | 1 |
| 32 | 245676 | FRONT WING ANCHOR 5015 ATD | 1 |
| | | | |

LEFT INNER WING ASSEMBLY- 18.3M (60 FT) UNIT



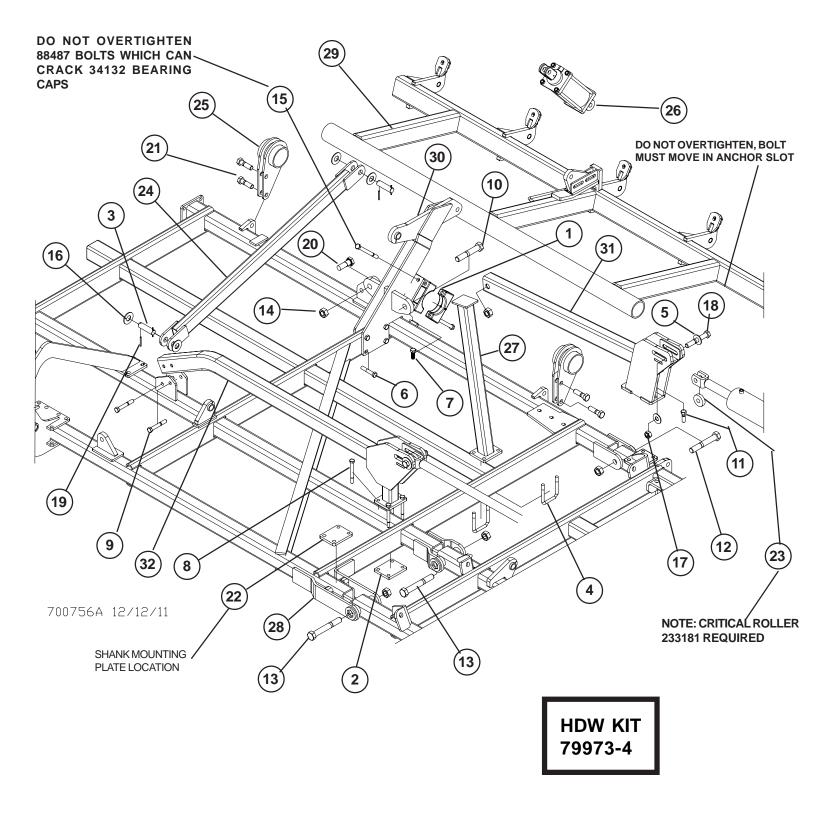
DO NOT OVERTIGHTEN 88487 BOLTS WHICH CAN CRACK 34132 BEARING CAPS

HDW KIT 79973-4

LEFT INNER WING ASSEMBLY- 18.3M (60 FT) UNIT

| ITEM | PART NO. | DESCRIPTION | QTY |
|------|----------|----------------------------------|-----|
| 1 | 34132 | AXLE CLAMP ASSEMBLY (RED) | 4 |
| 2 | 62271 | FRAME PLATE (RED) | 1 |
| 3 | 67854 | HEADLESS PIN(2) 1-1/4X4-1/2 | 2 |
| 4 | 88145 | BLT-U 5/8-11NCX4X5-1/4 Z | 2 |
| 5 | 88196 | WSHR FLAT 1(1-1/16X2-1/2ACT) Z | 4 |
| 6 | 88272 | BLT HEX 3/4-10NCX4 5Z | 4 |
| 7 | 88290 | BLT HEX 3/4-10NCX2 8YZ | 2 |
| 8 | 88295 | BLT HEX 5/8-11NCX6 5Z | 4 |
| 9 | 88305 | BLT HEX 3/4-10NCX5 5Z | 2 |
| 10 | 88349 | BLT HEX 1-1/4-7NCX6-1/2 5Z | 1 |
| 11 | 88404 | BLT HEX 3/4-10NCX2-1/2 5Z | 3 |
| 12 | 88427 | BLT HEX 1-1/4-7NCX8 5Z | 1 |
| 13 | 88428 | BLT HEX 1-1/4-7NCX9 5Z | 2 |
| 14 | 88430 | NUT 2POSLK 1-1/4-7NC 5Z | 5 |
| 15 | 88487 | BLT HEX 3/4-10NCX8-1/2 5Z | 4 |
| 16 | 88602 | WSHR FLAT 1-1/4(1-3/8X3ACT) Z | 4 |
| 17 | 88658 | NUT TOP LK 1-8NC 5Z | 6 |
| 18 | 88666 | BLT HEX 1-8NCX6-1/2 5Z | 2 |
| 19 | 88767 | PIN ROLL 1/4DIAX2-1/2 Z | 4 |
| 20 | 89029 | BLT HEX 1-1/4-7NC X 4 5Z | 1 |
| 21 | 89371 | BLT HEX 1-8NCX3-1/2 8YZ | 4 |
| 22 | 221196 | MOUNT PLATE - PAINTED GRAY | 1 |
| 23 | 233181 | LINK DONUT (ZINC) | 2 |
| 24 | 240572 | LIFT MAST TUBE | 1 |
| 25 | 241513 | CENTER PACKER HANGER | 2 |
| 26 | 241622 | HYD CYL 4-1/2X8 SEQ | 1 |
| 27 | 241633 | OUTER WING REST - ATD | 1 |
| 28 | 244833 | LEFT INNER WING - 6015 ATD | 1 |
| 29 | 244859 | INNER WING PACKER MOUNT 6015 ATD | 1 |
| 30 | 244869 | SHORT INNER WING PACKER TOWER | 1 |
| 31 | 244874 | REAR FOLD MAST | 1 |
| 32 | 244877 | FRONT WING ANCHOR | 1 |
| | | | |

RIGHT INNER WING ASSEMBLY - 18.3 M (60 FT) UNIT

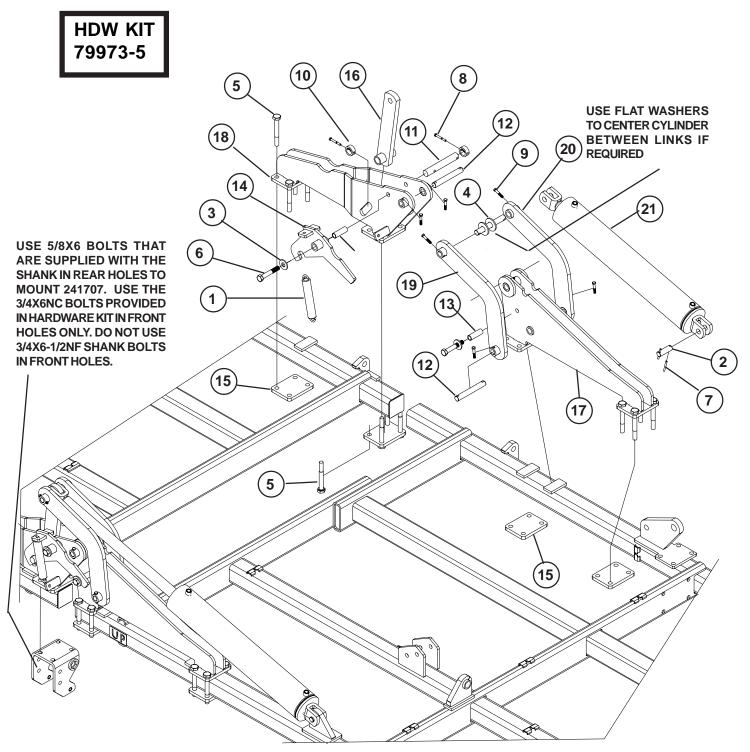


UNLESS SPECIFIED, ALL HARDWARE IS SECURED WITH MATCHING LOCK NUTS

RIGHT INNER WING ASSEMBLY - 18.3 M (60 FT) UNIT

| ITEM | PART NO. | DESCRIPTION | QTY |
|------|----------|----------------------------------|-----|
| 1 | 34132 | AXLE CLAMP ASSEMBLY (RED) | 4 |
| 2 | 62271 | FRAME PLATE (RED) | 1 |
| 3 | 67854 | HEADLESS PIN(2) 1-1/4X4-1/2 | 2 |
| 4 | 88145 | BLT-U 5/8-11NCX4X5-1/4 Z | 2 |
| 5 | 88196 | WSHR FLAT 1(1-1/16X2-1/2ACT) Z | 4 |
| 6 | 88272 | BLT HEX 3/4-10NCX4 5Z | 4 |
| 7 | 88290 | BLT HEX 3/4-10NCX2 8YZ | 2 |
| 8 | 88295 | BLT HEX 5/8-11NCX6 5Z | 4 |
| 9 | 88305 | BLT HEX 3/4-10NCX5 5Z | 2 |
| 10 | 88349 | BLT HEX 1-1/4-7NCX6-1/2 5Z | 1 |
| 11 | 88404 | BLT HEX 3/4-10NCX2-1/2 5Z | 3 |
| 12 | 88427 | BLT HEX 1-1/4-7NCX8 5Z | 1 |
| 13 | 88428 | BLT HEX 1-1/4-7NCX9 5Z | 2 |
| 14 | 88430 | NUT 2POSLK 1-1/4-7NC 5Z | 5 |
| 15 | 88487 | BLT HEX 3/4-10NCX8-1/2 5Z | 4 |
| 16 | 88602 | WSHR FLAT 1-1/4(1-3/8X3ACT) Z | 4 |
| 17 | 88658 | NUT TOP LK 1-8NC 5Z | 6 |
| 18 | 88666 | BLT HEX 1-8NCX6-1/2 5Z | 2 |
| 19 | 88767 | PIN ROLL 1/4DIAX2-1/2 Z | 4 |
| 20 | 89029 | BLT HEX 1-1/4-7NC X 4 5Z | 1 |
| 21 | 89371 | BLT HEX 1-8NCX3-1/2 8YZ | 4 |
| 22 | 221196 | MOUNT PLATE - PAINTED GRAY | 1 |
| 23 | 233181 | LINK DONUT (ZINC) | 2 |
| 24 | 240572 | LIFT MAST TUBE | 1 |
| 25 | 241513 | CENTER PACKER HANGER | 2 |
| 26 | 241622 | HYD CYL 4-1/2X8 SEQ | 1 |
| 27 | 241633 | OUTER WING REST - ATD | 1 |
| 28 | 244835 | RIGHT INNER WING - 6015 ATD | 1 |
| 29 | 244859 | INNER WING PACKER MOUNT 6015 ATD | 1 |
| 30 | 244869 | SHORT INNER WING PACKER TOWER | 1 |
| 31 | 244874 | REAR FOLD MAST | 1 |
| 32 | 244877 | FRONT WING ANCHOR | 1 |
| | | | |

OUTER WING HINGE ASSEMBLY- 15.2 M (50 FT) UNIT



700761A 12/12/11

SEE MOUNTING PAGES FOR SHANK LOCATIONS

UNLESS SPECIFIED, ALL HARDWARE IS SECURED WITH MATCHING LOCK NUTS

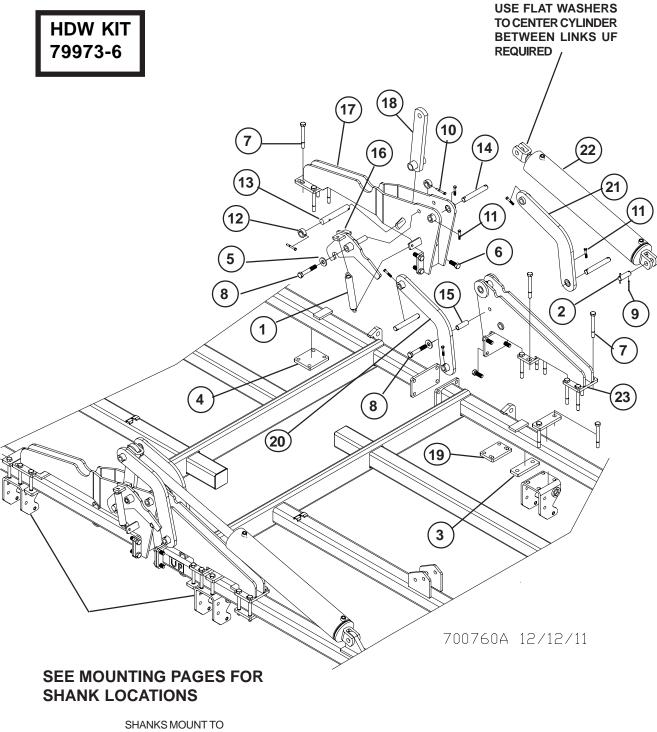
5015/6015 ATD ASSY/OPER/PARTS MANUAL (79973B) 2/12

OUTER WING HINGE ASSEMBLY- 15.2 M (50 FT) UNIT

| ITEM | PART NO. | DESCRIPTION | QTY |
|------|----------|--------------------------------|-----|
| 1 | 25863 | SPRING | 2 |
| 2 | 42473 | HEADLESS PIN (H) (2) 1X2-3/8 | 2 |
| 3 | 88131 | WSHR FLAT 3/4(13/16X2ACT) Z | 4 |
| 4 | 88196 | WSHR FLAT 1(1-1/16X2-1/2ACT) Z | 8 |
| 5 | 88293 | BLT HEX 3/4-10NCX6 5Z | 24 |
| 6 | 88421 | BLT HEX 3/4-10NCX4-1/2 5Z | 4 |
| 7 | 88767 | PIN ROLL 1/4DIAX2-1/2 Z | 4 |
| 8 | 89004 | BLT HEX 5/16-18NCX2-1/2 5Z | 4 |
| 9 | 89011 | BLT HEX 3/8-16NC X 2 5Z | 12 |
| 10 | 233589 | PIN BUSHING (ZINC) | 4 |
| 11 | 233900 | LOCK PIN | 2 |
| 12 | 236349 | HINGE PIN (ZINC) | 6 |
| 13 | 236391 | PIVOT TUBE (ZINC) | 4 |
| 14 | 236394 | OUTER WING LATCH BRACKET | 2 |
| 15 | 239045 | HINGE TIE PLATE - PAINTED | 6 |
| 16 | 240544 | OUTER FOLD LINK | 2 |
| 17 | 241705 | INNER WING HINGE | 2 |
| 18 | 241707 | OUTER HINGE PIVOT | 2 |
| 19 | 243017 | OUTER FOLD LINK - FRONT | 2 |
| 20 | 243018 | OUTER FOLD LINK - REAR | 2 |
| 21 | 20966F | HYD CYL 5X30 FGS #A519CY07 | 2 |

OUTER WING HINGE ASSEMBLY- 18.3 M (60 FT) UNIT

RIGHT WING SHOWN

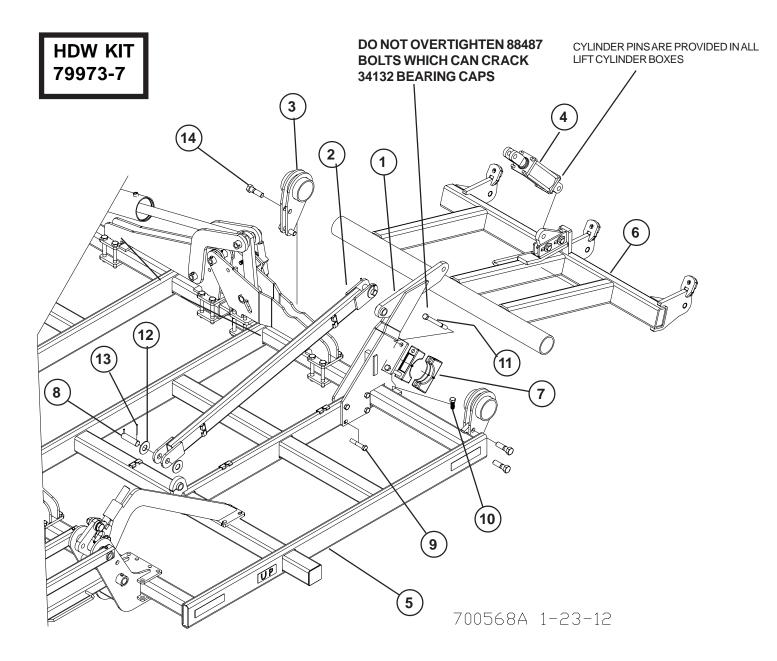


HINGE PLATES

OUTER WING HINGE ASSEMBLY- 18.3 M (60 FT) UNIT

| ITEM | PART NO. | DESCRIPTION | QTY |
|------|----------|--------------------------------|-----|
| 1 | 25863 | SPRING | 2 |
| 2 | 42473 | HEADLESS PIN (H) (2) 1X2-3/8 | 2 |
| 3 | 53419 | STRAP (RED) | 6 |
| 4 | 62271 | FRAME PLATE (RED) | 2 |
| 5 | 88131 | WSHR FLAT 3/4(13/16X2ACT) Z | 2 |
| 6 | 88290 | BLT HEX 3/4-10NCX2 8YZ | 16 |
| 7 | 88295 | BLT HEX 5/8-11NCX6 5Z | 30 |
| 8 | 88421 | BLT HEX 3/4-10NCX4-1/2 5Z | 4 |
| 9 | 88767 | PIN ROLL 1/4DIAX2-1/2 Z | 4 |
| 10 | 89004 | BLT HEX 5/16-18NCX2-1/2 5Z | 4 |
| 11 | 89011 | BLT HEX 3/8-16NC X 2 5Z | 12 |
| 12 | 233589 | PIN BUSHING (ZINC) | 4 |
| 13 | 233900 | LOCK PIN | 2 |
| 14 | 236349 | HINGE PIN (ZINC) | 6 |
| 15 | 236391 | PIVOT TUBE (ZINC) | 4 |
| 16 | 236394 | OUTER WING LATCH BRACKET | 2 |
| 17 | 237941 | OUTER WING HINGE - ATD | 2 |
| 18 | 240544 | OUTER FOLD LINK | 2 |
| 19 | 241544 | FRAME PLATE - PAINTED (241505) | 1 |
| 20 | 243017 | OUTER FOLD LINK - FRONT | 2 |
| 21 | 243018 | OUTER FOLD LINK - REAR | 2 |
| 22 | 20966F | HYD CYL 5X30 FGS #A519CY07 | 2 |
| 23 | 237794D1 | INNER WING HINGE | 2 |

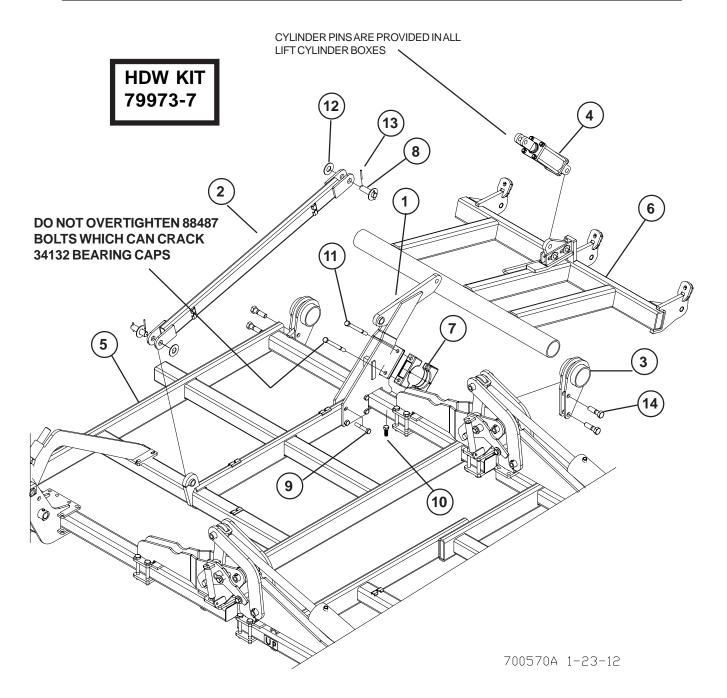
LEFT OUTER WING ASSEMBLY - 15.2 M (50 FT) UNIT



LEFT OUTER WING ASSEMBLY - 15.2 M (50 FT) UNIT

| ITEM | PART NO. | DESCRIPTION | QTY |
|------|----------|-------------------------------|-----|
| 1 | 235761 | PACKER LIFT BRACKET | 1 |
| 2 | 240572 | LIFT MAST TUBE | 1 |
| 3 | 241513 | CENTER PACKER HANGER | 2 |
| 4 | 241665 | HYD CYL 3-1/2X8 WITH SPACER | 1 |
| 5 | 245667 | LEFT OUTER WING 5015 ATD | 1 |
| 6 | 245672 | OUTER PACKER GANG 5015 ATD | 1 |
| 7 | 34132 | AXLE CLAMP ASSEMBLY (RED) | 4 |
| 8 | 67854 | HEADLESS PIN(2) 1-1/4X4-1/2 | 2 |
| 9 | 88272 | BLT HEX 3/4-10NCX4 5Z | 4 |
| 10 | 88290 | BLT HEX 3/4-10NCX2 8YZ | 2 |
| 11 | 88487 | BLT HEX 3/4-10NCX8-1/2 5Z | 4 |
| 12 | 88602 | WSHR FLAT 1-1/4(1-3/8X3ACT) Z | 4 |
| 13 | 88767 | PIN ROLL 1/4DIAX2-1/2 Z | 4 |
| 14 | 89371 | BLT HEX 1-8NCX3-1/2 8YZ | 4 |

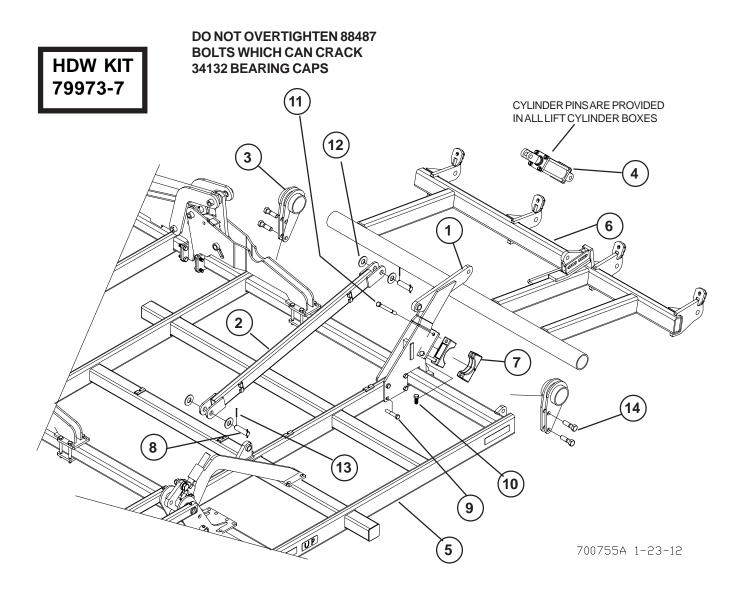
RIGHT OUTER WING ASSEMBLY - 15.2 M (50 FT) UNIT



RIGHT OUTER WING ASSEMBLY - 15.2 M (50 FT) UNIT

| ITEM | PART NO. | DESCRIPTION | QTY |
|------|----------|-------------------------------|-----|
| 1 | 235761 | PACKER LIFT BRACKET | 1 |
| 2 | 240572 | LIFT MAST TUBE | 1 |
| 3 | 241513 | CENTER PACKER HANGER | 2 |
| 4 | 241665 | HYD CYL 3-1/2X8 WITH SPACER | 1 |
| 5 | 245072 | RIGHT OUTER WING 5015 ATD | 1 |
| 6 | 245672 | OUTER PACKER GANG 5015 ATD | 1 |
| 7 | 34132 | AXLE CLAMP ASSEMBLY (RED) | 4 |
| 8 | 67854 | HEADLESS PIN(2) 1-1/4X4-1/2 | 2 |
| 9 | 88272 | BLT HEX 3/4-10NCX4 5Z | 4 |
| 10 | 88290 | BLT HEX 3/4-10NCX2 8YZ | 2 |
| 11 | 88487 | BLT HEX 3/4-10NCX8-1/2 5Z | 4 |
| 12 | 88602 | WSHR FLAT 1-1/4(1-3/8X3ACT) Z | 4 |
| 13 | 88767 | PIN ROLL 1/4DIAX2-1/2 Z | 4 |
| 14 | 89371 | BLT HEX 1-8NCX3-1/2 8YZ | 4 |

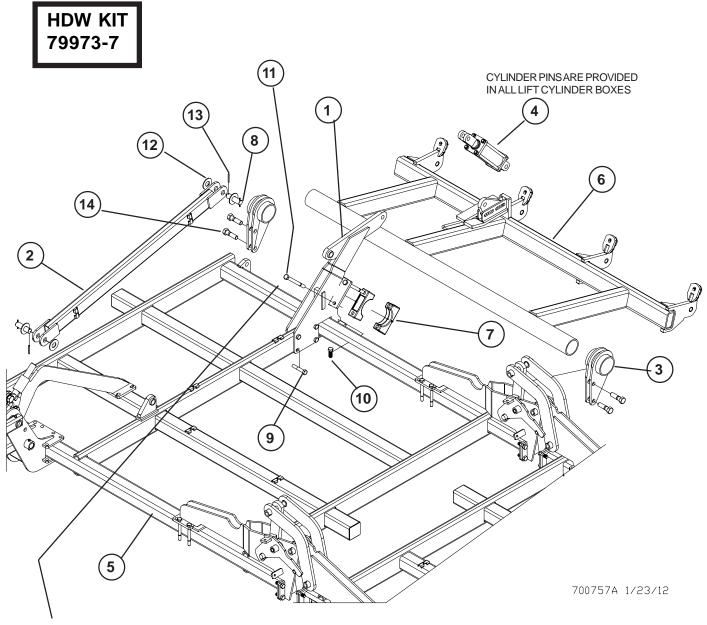
LEFT OUTER WING ASSEMBLY - 18.3 M (60 FT) UNIT



LEFT OUTER WING ASSEMBLY - 18.3 M (60 FT) UNIT

| ITEM | PART NO. | DESCRIPTION | QTY |
|------|----------|------------------------------------|-----|
| 1 | 235761 | PACKER LIFT BRACKET | 1 |
| 2 | 240572 | LIFT MAST TUBE | 1 |
| 3 | 241513 | CENTER PACKER HANGER | 2 |
| 4 | 241665 | HYD CYL 3-1/2X8 WITH SPACER | 1 |
| 5 | 244834 | LEFT OUTER WING - 6015 ATD | 1 |
| 6 | 244858 | LEFT OUTER WNG PACKER MNT 6015 ATD | 1 |
| 7 | 34132 | AXLE CLAMP ASSEMBLY (RED) | 4 |
| 8 | 67854 | HEADLESS PIN(2) 1-1/4X4-1/2 | 2 |
| 9 | 88272 | BLT HEX 3/4-10NCX4 5Z | 4 |
| 10 | 88290 | BLT HEX 3/4-10NCX2 8YZ | 2 |
| 11 | 88487 | BLT HEX 3/4-10NCX8-1/2 5Z | 4 |
| 12 | 88602 | WSHR FLAT 1-1/4(1-3/8X3ACT) Z | 4 |
| 13 | 88767 | PIN ROLL 1/4DIAX2-1/2 Z | 4 |
| 14 | 89371 | BLT HEX 1-8NCX3-1/2 8YZ | 4 |

RIGHT OUTER WING ASSEMBLY - 18.3 M (60 FT) UNIT



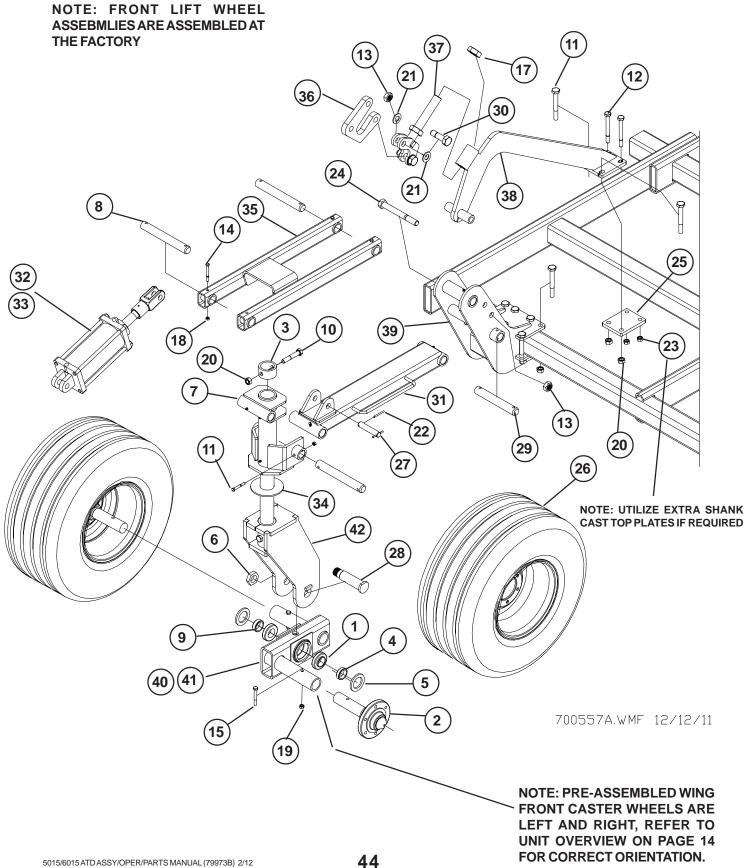
DO NOT OVERTIGHTEN 88487 BOLTS WHICH CAN CRACK 34132 BEARING CAPS

RIGHT OUTER WING ASSEMBLY - 18.3 M (60 FT) UNIT

| ITEM | PART NO. | DESCRIPTION | QTY |
|------|----------|----------------------------------|-----|
| 1 | 235761 | PACKER LIFT BRACKET | 1 |
| 2 | 240572 | LIFT MAST TUBE | 1 |
| 3 | 241513 | CENTER PACKER HANGER | 2 |
| 4 | 241665 | HYD CYL 3-1/2X8 WITH SPACER | 1 |
| 5 | 244836 | RIGHT OUTER WING - 6015 ATD | 1 |
| 6 | 244878 | RIGHT OUTER WING PACKER 6015 ATD | 1 |
| 7 | 34132 | AXLE CLAMP ASSEMBLY (RED) | 4 |
| 8 | 67854 | HEADLESS PIN(2) 1-1/4X4-1/2 | 2 |
| 9 | 88272 | BLT HEX 3/4-10NCX4 5Z | 4 |
| 10 | 88290 | BLT HEX 3/4-10NCX2 8YZ | 2 |
| 11 | 88487 | BLT HEX 3/4-10NCX8-1/2 5Z | 4 |
| 12 | 88602 | WSHR FLAT 1-1/4(1-3/8X3ACT) Z | 4 |
| 13 | 88767 | PIN ROLL 1/4DIAX2-1/2 Z | 4 |
| 14 | 89371 | BLT HEX 1-8NCX3-1/2 8YZ | 4 |

WING LIFT WHEEL ASSEMBLY

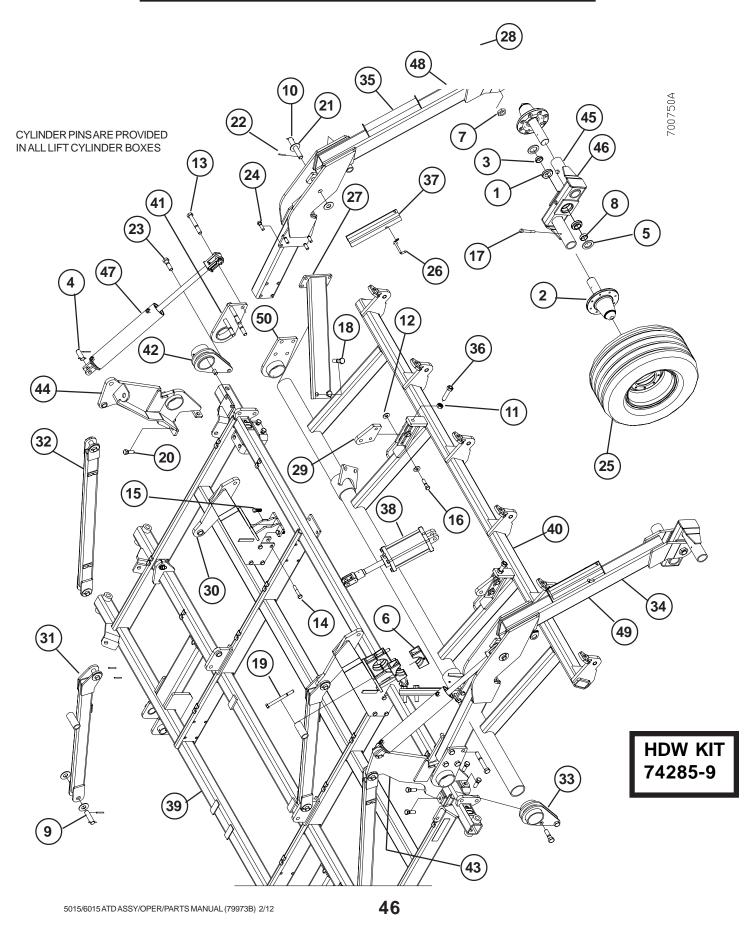
HDW KIT 79973-8



WING LIFT WHEEL ASSEMBLY

| ITEM | PART NO. | DESCRIPTION | QTY |
|------|----------|-------------------------------------|-----|
| 1 | 12103 | BEARING CONE 1-3/4ID (25580) | 2 |
| 2 | 14131 | 2IN HUB & SPINDLE (LG7830026) BLK | 2 |
| 3 | 16009 | COLLAR | 1 |
| 4 | 16278 | BEARING BUSHING | 1 |
| 5 | 26120 | 2.25ID X 3.40 OD TRIPLE LIP SEAL | 2 |
| 6 | 42082 | NUT 1-1/2NF HYDRA JAM LOCK | 1 |
| 7 | 54571 | GAUGE WHEEL PIVOT | 2 |
| 8 | 54595 | HEADLESS PIN(2) 1-1/2 X 9-19/32 | 3 |
| 9 | 54599 | WALKER BEARING BUSHING | 1 |
| 10 | 88272 | BLT HEX 3/4-10NC X 4 5Z | 1 |
| 11 | 88293 | BLT HEX 3/4-10NC X 6 5Z | 9 |
| 12 | 88295 | BLT HEX 5/8-11NC X 6 5Z | 2 |
| 13 | 88348 | NUT 2POSLK 1-8NC 5Z | 3 |
| 14 | 88412 | BLT HEX 3/8-16NC X 3-1/2 5Z | 4 |
| 15 | 88507 | BLT HEX 1/2-13NC X 3-1/2 5Z | 2 |
| 16 | 88582 | BLT HEX 3/8-16NC X 2-3/4 5Z | 4 |
| 17 | 88623 | NUT JAM 1-1/2-6NC 5Z | 2 |
| 18 | 88659 | NUT TOP LK 3/8-16NC 5Z | 8 |
| 19 | 88661 | NUT TOP LK 1/2-13NC 5Z | 2 |
| 20 | 88665 | NUT TOP LK 3/4-10NC 5Z | 10 |
| 21 | 88738 | WSHR FLAT 1SAE(1-1/16 X 2ACT) Z | 4 |
| 22 | 88767 | PIN ROLL 1/4DIA X 2-1/2 Z | 2 |
| 23 | 88845 | NUT TOP LK 5/8-11NC 5Z | 2 |
| 24 | 89373 | BLT HEX 1-8NC X 8-1/2 8YZ | 1 |
| 25 | 221196 | MOUNT PLATE - PAINTED GRAY | 1 |
| 26 | 222087 | WHL ASSY 31X13.5 6B 10" 12P GRAY | 2 |
| 27 | 222338 | HEADLESS PIN(2) 1X4-1/8 | 1 |
| 28 | 235245 | TANDEM PIN | 1 |
| 29 | 235801 | PIVOT PIN (1-1/2 X 10) | 1 |
| 30 | 237506 | 1NC X 3-1/2 SPECIAL HEX HEAD BOLT | 2 |
| 31 | 237798 | LOWER OUTER ARM | 1 |
| 32 | 241663 | HYD CYL 4X8 - Inner Wing | 1 |
| 33 | 241664 | HYD CYL 3-3/4X8 - Outer Wing | 1 |
| 34 | 242933 | PIVOT WEAR PLATE | 1 |
| 35 | 247798 | UPPER LINK ARM | 1 |
| 36 | 247808 | MAST ANCHOR | 1 |
| 37 | 247811 | ANCHOR ADJUST | 1 |
| 38 | 247814 | FRONT MAST SUPPORT | 1 |
| 39 | 350923 | FRONT ATD MAST - 2012 | 1 |
| 40 | 237714D1 | LEFT OUTER WALKER - ATD | 1 |
| 41 | 237714L1 | RIGHT OUTER WALKER - ATD | 1 |
| 42 | 237722D2 | WING FRONT AXLE PIVOT - ATD | 1 |
| | | | |

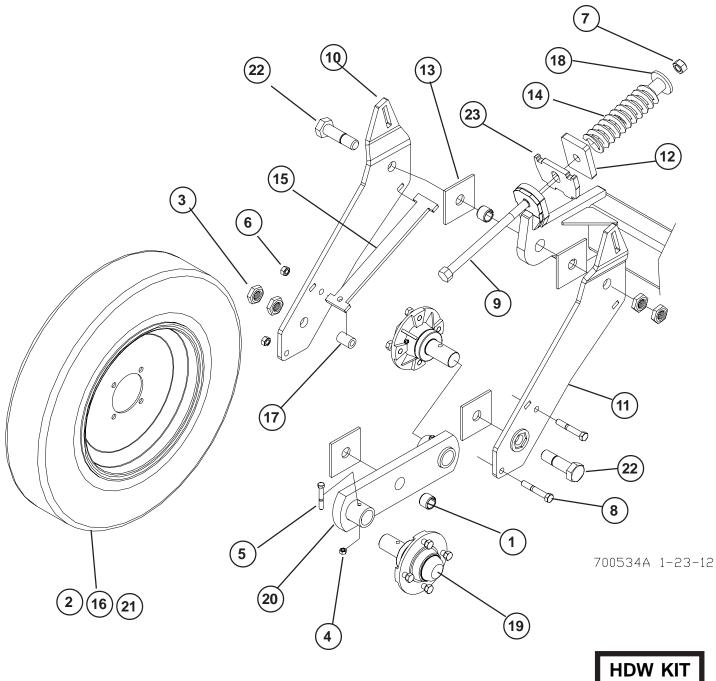
MAIN FRAME PACKER/LIFT ASSEMBLY



MAIN FRAME PACKER/LIFT ASSEMBLY

| | | DESCRIPTION | OTV |
|----------|-------------------------|---|----------|
| 1 EIVI | PART NO 12103 | DESCRIPTION BEARING CONE 1-3/4ID (25580) | QTY 4 |
| 2 | 16154 | 2-1/2" HUB & SPINDLE ASSY | 4 |
| 2 | 16278 | BEARING BUSHING | 2 |
| 3 4 | 22022 | HEADLESS PIN(2) 1-1/4X2-7/16 | 2 |
| 5 | 26120 | 2.25ID X 3.40 OD TRIPLE LIP SEAL | 4 |
| 6 | 34132 | AXLE CLAMP ASSEMBLY (RED) | 8 |
| 7 | 42082 | NUT 1-1/2NF HYDRA JAM LOCK | 2 |
| 8 | 42002 54599 | WALKER BEARING BUSHING | 2 |
| 9 | 67854 | HEADLESS PIN(2) 1-1/4X4-1/2 | 8 |
| 3 10 | 68399 | HEADLESS PIN(2) 1-1/4X7-1/8 | 2 |
| 10 | 88125 | NUT HEX 1-8NC 5Z | 2 |
| 12 | 88131 | WSHR FLAT 3/4(13/16 X 2ACT) Z | 8 |
| 13 | 88181 | BLT HEX 1-8NC X 7 5Z | 8 |
| 13 | 88272 | BLT HEX 3/4-10NC X 4 5Z | 8 |
| 15 | 88290 | BLT HEX 3/4-10NC X 2 8YZ | 4 |
| 16 | 88291 | BLT HEX 3/4-10NC X 3 5Z | 4 |
| 17 | 88381 | BLT HEX 5/8-11NC X 4-1/2 5Z | 4 |
| 18 | 88398 | BLT HEX 5/6-11NC X 4-1/2 52 BLT HEX 1-8NC X 4 5Z | 4 |
| 19 | 88487 | BLT HEX 3/4-10NC X 8-1/2 5Z | 8 |
| 20 | 88495 | BLT HEX 7/8-9NC X 2-1/2 5Z | 8 |
| 20 21 | 88602 | WSHR FLAT 1-1/4(1-3/8 X 3ACT) Z | 20 |
| 21 | 88767 | PIN ROLL 1/4DIA X 2-1/2 Z | 20 24 |
| 22 | 89371 | BLT HEX 1-8NC X 3-1/2 8YZ | 4 |
| 23 24 | 89389 | BLT HEX 3/4-10NC X 2-1/2 8YZ | 8 |
| 24 25 | 222259 | WHL ASSY 31X13.5 8B 10" 12P | 4 |
| 25 26 | 234811 | 1/2 X 4 BENT PIN W/HAIRPIN | 4 2 |
| 20 27 | 234836 | REAR BRACE TUBE | 2 |
| 28 | 234030 | TANDEM PIN | 2 |
| 20 29 | 235245 | PACKER LIFT ANCHOR | 2 |
| 29 30 | 240488 | PACKER LIFT BRACKET | 2 |
| 30 31 | 240466 240567 | MAIN MAST TUBE | 2 |
| 32 | 240567 240572 | LIFT MAST TUBE | 2 |
| 32 33 | 240572 | CENTER PACKER HANGER | 2 1 |
| 33 34 | 241513 | LEFT REAR LIFT AXLE ASSY /WALKER | 1 |
| 34 35 | 241550 | RIGHT REAR LIFT AXLE ASSY /WALKER | 1 |
| 35 36 | 241551 | ADJUSTMENT SCREW | 2 |
| 30 37 | 241572 | REAR CYLINDER CHANNEL LOCK | 2 |
| 38 | 241504 | HYD CYL 4-3/4X8 SEQ | 2 |
| 39 | 244832 | MAIN FRAME - 5015/6015 ATD | 1 |
| 39 40 | 244860 | CENTER PACKER MOUNT 6015 ATD | 1 |
| 40 41 | 244862 | LIFT AXLE PIVOT - SHORT | 1 |
| 42 | 244863 | CENTER PACKER HANGER | 1 |
| 43 | 245697 | REAR LIFT MAST - LEFT | 1 |
| 43 44 | 245698 | REAR LIFT MAST-RIGHT | 1 |
| 44 45 | 243030 221347D1R | LEFT 3X11 HD WALKING TANDEM | 1 |
| 45 46 | 221347D1K | RIGHT 3X11 HD WALKING TANDEM | 1 |
| 40 47 | 22221347D1 2222213F1 | HYD CYL 4X16 ILP #A519CY26 | 2 |
| 47 | 237756D1R | REAR LIFT AXLE - RIGHT | 1 |
| 40 49 | 237756D1 | REAR LIFT AXLE - LEFT | 1 |
| 49 50 | 237961D1 | LIFT AXLE PLOT | 3 |
| 50 | 20100101 | | 5 |

REAR PACKER ASSEMBLY



74285-10

REAR PACKER ASSEMBLY

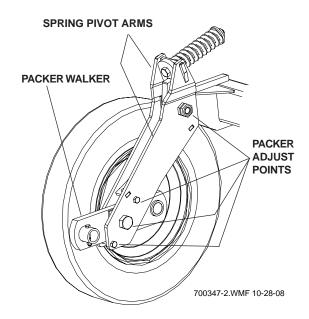
| ITEM | PART NO. | DESCRIPTION | QTY |
|------|----------|---------------------------------------|-----|
| 1 | 33515 | SPRING TENSION BUSHING (1") | 2 |
| 2 | 57908 | VALVE ASSEMBLY (STEEL) | 1 |
| 3 | 88141 | NUT JAM 1-8NC 5Z | 4 |
| 4 | 88162 | NUT 2POSLK 3/8-16NC 5P | 2 |
| 5 | 88489 | BLT HEX 3/8-16NCX2-1/2 8YZ | 2 |
| 6 | 88661 | NUT TOP LK 1/2-13NC 5Z | 2 |
| 7 | 88665 | NUT TOP LK 3/4-10NC 5Z | 1 |
| 8 | 88680 | BLT HEX 1/2-13NCX3-1/4 5Z | 1 |
| 9 | 89462 | BLT-HEX 3/4X10NCX10-1/2 8Z | 1 |
| 10 | 233508 | LEFT PACKER ARM | 1 |
| 11 | 233509 | RIGHT PACKER ARM | 1 |
| 12 | 237986 | SPRING PLATE—PAINTED BLACK | 1 |
| 13 | 237996 | WALKER PIVOT WASHER | 4 |
| 14 | 239169 | SPRING - PAINTED BLACK | 1 |
| 15 | 241541 | INNER PACKER PLATE (BLACK) | 1 |
| 16 | 241616 | PACKER RIM 4.5X15 4 BOLT | 1 |
| 17 | 241653 | PACKER SPACER (ZINC) | 1 |
| 18 | 243953 | SPRING CENTERING WASHER/TUBE | 2 |
| 19 | 243985 | 2009 PACKER HUB & SPINDLE ASSY | 2 |
| 20 | 244889 | PACKER WALKER - 15 IN | 1 |
| 21 | 246793 | PACKER TIRE 26/7.75X15 | 1 |
| 22 | 350999 | 1NCX3-3/4 HEXHEAD - WALKER PIVOT BOLT | 2 |
| 23 | A34852 | PLATE-TDD SPRING RETAINER | 1 |

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. <u>THE SPRING</u> 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.

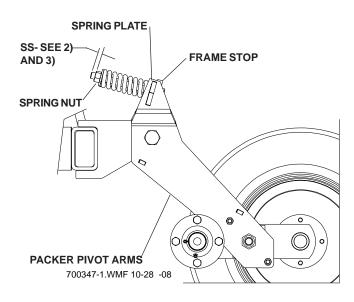
IF THE PACKER ADJUST POINTS ARE TIGHT THE SPRING WILL NOT RETURN THE SPRING ARMS TO THE CORRECT POINT AND THE DEPTH CONTROL AND PACKING OF THE REAR OF THE UNIT WILL BE INCONSISTENT. WITH THE PACKER ARMS AND WALKERS ABLE TO ROTATE AND THE SPRINGS SET AS NOTED BELOW THE PACKERS SHOULD CARRY THE REAR OF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

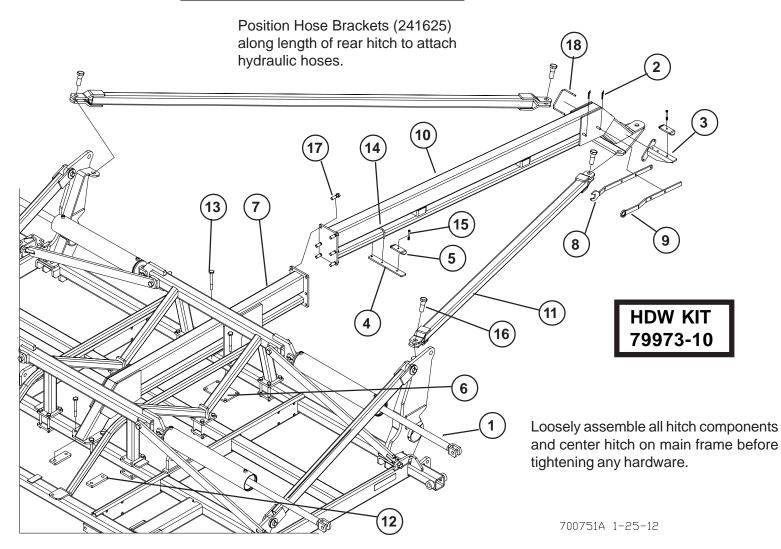
5) PROCEED TO COMPLETING THE FIELD SETTINGS AND CHECK TO SEE THAT THE STOP CONTACT IS MAINTAINED AS THE UNIT MOVES THROUGH THE FIELD. IF THE PACKER PIVOT ARMS ARE MOVING EXCESSIVELY DUE TO NORMAL LOADING, NOT OBSTRUCTIONS, TIGHTEN THE SPRING NUTS. TIGHTEN SPRINGS ONLY TO THE POINT OF MAINTAINING SPRING PLATE TO FRAME STOP CONTACT WHILE OPERATING EXCESS SPRING PRESSURE WILL RESTRICT RELIEF WHEN ENCOUNTERING OBSTRUCTIONS.

REAR PACKER ASSEMBLY

WHEN MOUNTING PACKER ARMS IN CERTAIN LOCATIONS WHERE THERE IS POTENTIAL INTERFERENCE WITH MACHINE PARTS THE SPRING CAN BE MOUNT TO THE REAR AS SHOWN BELOW. FOLLOW THE ASSEMBLY AND ADJUSTMENT INSTRUCTIONS AS NOTED FOR SPRING SETTINGS.

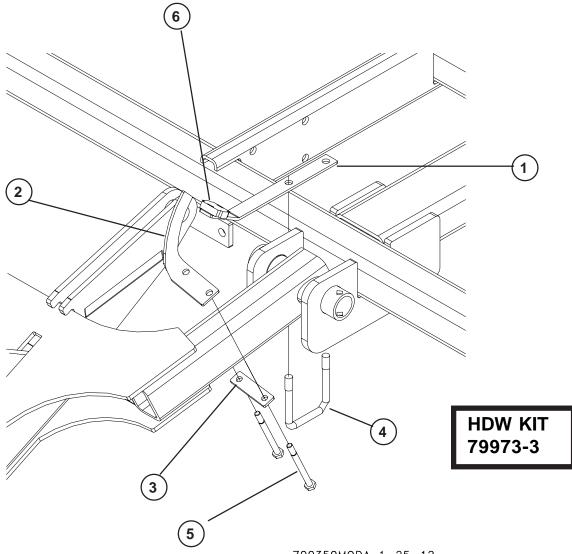
| | BLT HEX 3/4-10NC X 10-1/2 |
|-----------------------------|---------------------------|
| PLATE-TDD SPRING | RETAINER |
| | |
| SPRING - PAINTED BLAC | ж |
| SPRING CENTERING WASHER/TUB | |
| NUT TOP LOCK 3/4-10NC | |
| | 700534-1A 1-25-12 |

REAR HITCH ASSEMBLY



| ITEM | PART NO. | DESCRIPTION | QTY |
|------|----------|----------------------------|-----|
| 1 | 20966F | HYD CYL 5X30 FGS #A519CY07 | 4 |
| 2 | 23039 | PIN-HAIR .14 X 2.69 ZP | 2 |
| 3 | 235262 | HOSE BRACKET | 1 |
| 4 | 241625 | HOSE BRACKET | 6 |
| 5 | 241626 | HOSECLAMP | 7 |
| 6 | 241639 | REAR HITCH PLATE (RED) | 1 |
| 7 | 243908 | ATD HITCH - SHORT FRONT | 1 |
| 8 | 243987 | PACKER OPEN END WRENCH | 1 |
| 9 | 243988 | PACKER BOX END WRENCH | 1 |
| 10 | 245695 | REAR PULL HITCH - 2010 | 1 |
| 11 | 245696 | REAR HITCH BRACE TUBE | 2 |
| 12 | 53419 | STRAP (RED) | 2 |
| 13 | 88293 | BLT HEX 3/4-10NCX6 5Z | 8 |
| 14 | 88515 | BLT-U 3/8-16NCX4X2-3/4 Z | 6 |
| 15 | 88531 | BLT HEX 3/8-16NCX3 5Z | 7 |
| 16 | 89029 | BLT HEX 1-1/4-7NC X 4 5Z | 4 |
| 17 | 89389 | BLT HEX 3/4-10NCX2-1/2 8YZ | 6 |
| 18 | 89406 | BLT-U 3/8-NCX6 X 5 | 1 |
| | | | |

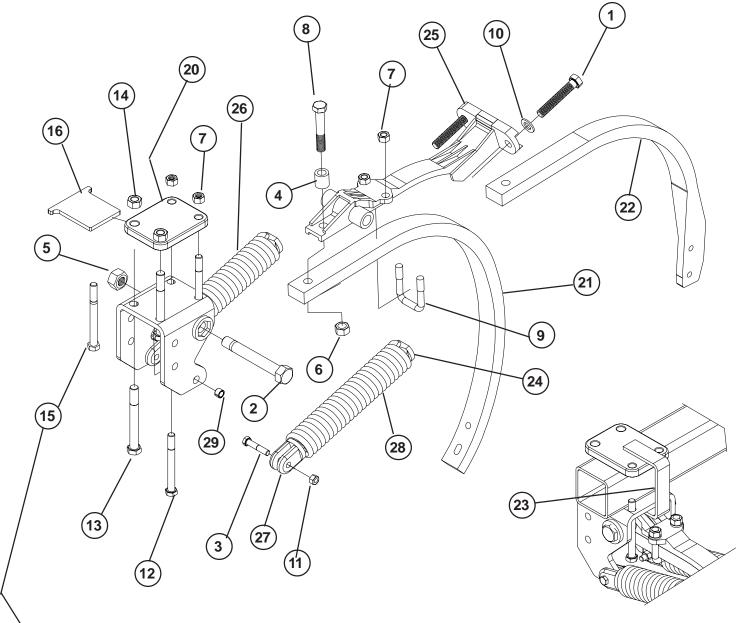
LIFT SENSOR MOUNT ASSEMBLY



700350MODA 1-25-12

| ITEM | PART NO | DESCRIPTION | QTY |
|-------------|------------------------------------|--|-----------------------|
| 1 | 241677 | SENSOR MOUNT | 1 |
| 2 | 241678 | SENSOR PLATE | 1 |
| 3 | 241679 | TIE STRAP | 1 |
| 4 | 88145 | BLT-U 5/8-11NCX4X5-1/4 Z | 1 |
| 5 | 88676 | BLT HEX 1/2-13NC X 6-1/2 5Z | 2 |
| 6 | SENSOR | SENSOR | 1 |
| - 3 4 | 241678 241679 88145 88676 | SENSOR PLATE TIE STRAP BLT-U 5/8-11NCX4X5-1/4 Z BLT HEX 1/2-13NC X 6-1/2 5Z | 1 1 1 2 1 |

SHANK ASSEMBLY



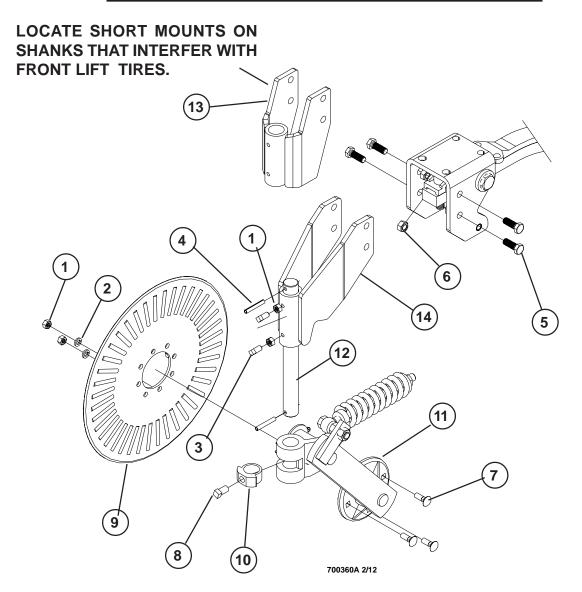
89398 BOLT USED WITH 241764 SHIM AND 241675 SHIM KIT USE BRACKET (244576) TO HOLD SHANK FOR ASSEMBLY

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

SHANK ASSEMBLY

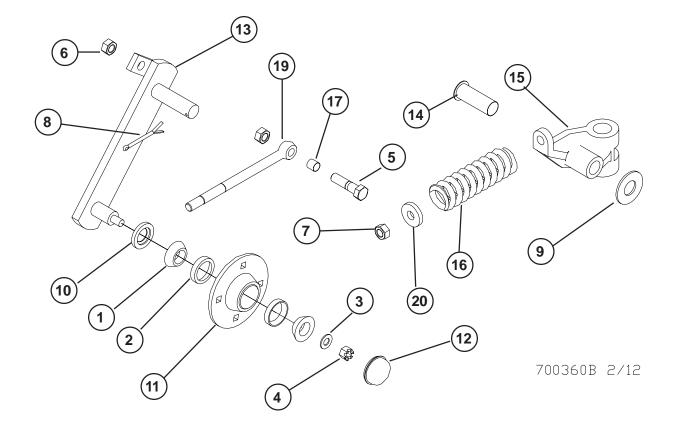
| ITEM | PART NO. | DESCRIPTION | QTY |
|------|----------|-----------------------------------|-----|
| 1 | 10210 | ADJUSTMENT BOLT | 2 |
| 2 | 14987 | PIVOT BOLT (CP SHANK) | 1 |
| 3 | 58032 | HDN 1/2 X 2-1/2 BOLT | 2 |
| 4 | 62639 | STOP COLLAR | 1 |
| 5 | 88169 | NUT 2POSLK 1-14NF 5Z | 1 |
| 6 | 88356 | NUT 2POSLK 3/4-10NC 5Z | 1 |
| 7 | 88369 | NUT 2POSLK 5/8-11NC 5Z | 2 |
| 8 | 88421 | BLT HEX 3/4-10NC X 4-1/2 5Z | 1 |
| 9 | 88441 | BLT-U 5/8-11NCX2X3-1/4 Z | 1 |
| 10 | 88548 | WSHR FLAT 3/4SAE(13/16 X 1-1/2) Z | 2 |
| 11 | 88621 | NUT NLK 1/2-13NC 5Z | 2 |
| 12 | 88933 | BLT HEX 5/8-11NC X 6 8YZ | 2 |
| 13 | 89385 | BLT HEX 3/4-16NF X 6-1/2 8YZ | 2 |
| 14 | 89386 | NUT NYL 3/4-16NF 8YZ | 2 |
| 15 | 89398 | BLT HEX 5/8-11NC X 6-1/2 8YZ | 2 |
| 16 | 241674 | 3/8 IN SHANK SHIM (ZINC) | 12 |
| 17 | 241675 | SHANK SHIM KIT - 12 EA | 1 |
| 18 | 243954 | EDGE-ON CP SHANK ASSY (BLACK) | 1 |
| 19 | 243955 | CP SHANK ASSY 32IN (BLACK) | 1 |
| 20 | 243956 | CAST TOP PLATE (BLACK) | 1 |
| 21 | 243959 | 54 DEG 32IN CP SHK (BLACK) | 1 |
| 22 | 243961 | SHANK EDGE ON (BLACK) | 1 |
| 23 | 244576 | SHANK MOUNT TOOL | 1 |
| 24 | 251696 | CAST SPRING PLUG (BLACK) | 1 |
| 25 | 351695 | DUCTILE PIVOT ARM (BLACK) | 1 |
| 26 | 351697 | SPRING ASSY W/PLUGS (BLACK) | 1 |
| 27 | 351698 | CAST SPRING YOKE (BLACK) | 1 |
| 28 | 351699 | EXTENSION SPRING (BLACK) | 1 |
| 29 | 56908 | 1/2" SPRING TENSION BUSHING | 2 |

SHANK COULTER MOUNT ASSEMBLY



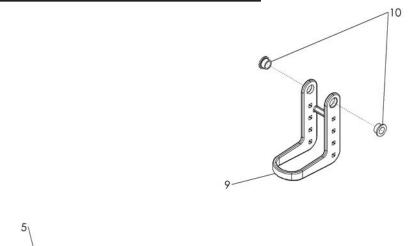
| ITEM | PART NO | DESCRIPTION | QTY |
|------|---------|---------------------------------------|-----|
| 1 | 88104 | NUT HEX 1/2-13NC 5Z | 6 |
| 2 | 88303 | WSHR HLK 1/2ID(9/16ACT) Z | 4 |
| 3 | 88446 | SCR SET 1/2-13NC X 1SQHD Z | 2 |
| 4 | 88770 | PIN ROLL 3/8DIA X 2-1/2 Z | 1 |
| 5 | 88838 | BLT HEX 5/8-11NC X 1-3/4 5Z | 4 |
| 6 | 88845 | NUT TOP LK 5/8-11NC 5Z | 4 |
| 7 | 88873 | BLT CRG 1/2-13NC X 1-1/2 5Z | 4 |
| 8 | 89382 | SCR SET 5/8-11NC X 1 SQ HD P | 1 |
| 9 | 234261 | 20" RIPPLE BLADE | 1 |
| 10 | 234262 | LOCKING COLLAR CLYMER COULTER | 1 |
| 11 | 234264 | CLYMER COULTER ASSY W/HARDWARE | 1 |
| 12 | 235806 | SHORT SHAFT - 1-1/2 IN DIA COULTER | 1 |
| 13 | 350915 | CP SHANK COULTER MOUNT - SHORT | 1 |
| 14 | 351508 | COULTER MOUNT 2012 | 1 |

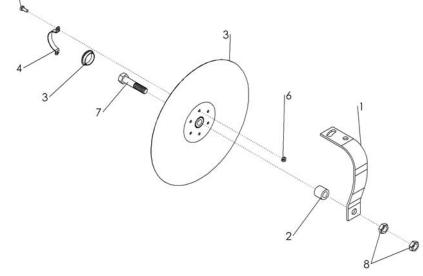
CLYMER SHANK COULTER ASSEMBLY



| ITEM | PART NO | DESCRIPTION | QTY |
|------|---------|----------------------------------|-----|
| 1 | 10344 | BEARING CUP 2.328 OD (LM67010) | 2 |
| 2 | 10345 | BEARING CONE 1-1/4ID (LM67048) | 2 |
| 3 | 19949 | 3/4ID SPINDLE WASHER | 1 |
| 4 | 86558 | NUT SLTD 5/8-18NF 5 | 1 |
| 5 | 88119 | BLT HEX 3/4-16NF X 3 5Z | 1 |
| 6 | 88123 | NUT HEX 3/4-16NF 5Z | 2 |
| 7 | 88356 | NUT 2POSLK 3/4-10NC 5Z | 1 |
| 8 | 88558 | PIN COT 5/32DIA X 1 Z | 1 |
| 9 | 88602 | WSHR FLAT 1-1/4(1-3/8 X 3ACT) Z | 1 |
| 10 | 234252 | 2 PIECE GREASE SEAL CLYMER W40-2 | 1 |
| 11 | 234255 | 4-BOLT HUB CLYMER W23 | 1 |
| 12 | 234256 | DUST CAP CLYMER W50 | 1 |
| 13 | 234257 | SWING ARM CLYMER N347-4 | 1 |
| 14 | 234258 | FLANGED BUSHING CLYMER N347-6 | 1 |
| 15 | 234259 | HINGE CASTING CLYMER N347-1 | 1 |
| 16 | 234260 | COULTER SPRING CLYMER S233 | 1 |
| 17 | 234263 | NYLON BUSHING CLYMER N347-7 | 1 |
| 18 | 234264 | CLYMER COULTER ASSY W/HARDWARE | 1 |
| 19 | 234265 | SPRING ROD CLYMER N347-5 | 1 |
| 20 | 236553 | SPRING BUSHING CASTING | 1 |

DISC LEVELER - OPTIONAL





66479 RIGHT & 66478 LEFT DISC ARM ASSY

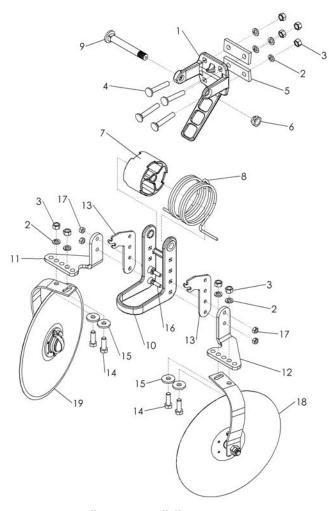
| ITEM | PART NO. QTY | DESCRIPTION | | | | | | | | | |
|------|--------------|-----------------------------|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | | | |
| 1 | 234515 1 | SPRING ARM DISC RH | | | | | | | | | |
| | 234514 1 | SPRING ARM DISC LH | | | | | | | | | |
| 2 | 234516 1 | TUBE SPACER ZP | | | | | | | | | |
| 3 | A65225 1 | DISC | | | | | | | | | |
| 4 | 234517 1 | RETAINER DUST CAP | | | | | | | | | |
| 5 | 66834 2 | BOLT-HEX: .25 X .625 NC GR5 | | | | | | | | | |
| 6 | 1013427 2 | NUT-CENTERLOCK | | | | | | | | | |
| 7 | 1011624 1 | BOLT-HEX: .63 X 3.00 | | | | | | | | | |
| 8 | 1026259 2 | NUT-JAM: .63 NC GR2 ZP | | | | | | | | | |

67482 LEVELER ARM ASSY

| ITEM | PART NO. | QTY | DESCRIPTION | |
|------|----------|-----|-----------------------|----|
| 9 | 67418 | 1 | ARM-UNIVERSAL LEVELER | PC |
| 10 | 66470 | 2 | BUSHING-FLANGE | |

7000-1

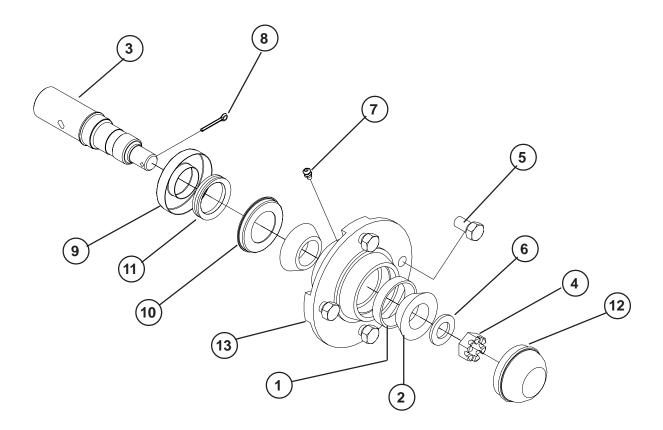
DISC LEVELER - OPTIONAL



WIVERSAL DISC LEVELER

| ITEM | PART NO. | QTY | DESCRIPTION |
|------|----------|-----|----------------------------------|
| 1 | 67415 | 1 | CARRIER-CENTER PC |
| 2 | 1011581 | 6 | WASHER-LOCK: .50 ZP |
| 3 | 1011577 | 6 | NUT-HEX: .50 NC ZP |
| 4 | 67402 | 4 | BOLT-CARR 1/2-13X3 1-1/2 THRD ZP |
| 5 | 67133 | 2 | PLATE-BACKING ZP |
| 6 | 344003 | 1 | NUT-CENTERLOCK LUG .75 NC ZP |
| 7 | 67409 | 1 | SPACER-CENTER CARRIER |
| 8 | 67207 | 1 | SPRING-TORSION UNIVERSAL |
| 9 | 34820 | 1 | BOLT-CRG .75 X 5.75 |
| 10 | 67482 | 1 | ASSY-DISC LEVELER ARM |
| 11 | 67416 | 1 | PLATE-DISC LEVELER WING |
| 12 | 67417 | 1 | PLATE-DISC LEVELER WING |
| 13 | 67934 | 2 | ARM-SHIFTER ZP |
| 14 | 1011607 | 2 | BOLT-HEX: .50 x 1.50 NC GR5 ZP |
| 15 | 33036 | 2 | WASHER-FLAT: .50 ZP HD |
| 16 | 1016362 | 4 | BOLT-CRG: .38 X 1.25 NC GR5 ZP |
| 17 | 1011499 | 4 | NUT-HEX: .38 NC GR2 ZP |
| 18 | 66479 | 1 | ASSY-RIGHT DISC ARM |
| 19 | 66478 | 1 | ASSY-LEFT DISC ARM |

4 BOLT PACKER HUB & SPINDLE

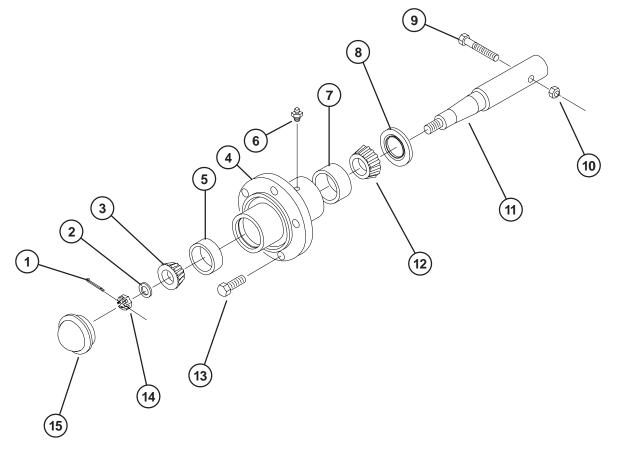


700541 1-24-12

243985 - COMPLETE HUB & SPINDLE ASSY PAINTED BLACK

| ITEM | PART NO. | DESCRIPTION | QTY |
|------|----------|----------------------------------|-----|
| 1 | 10344 | BEARING CUP 2.328 OD (LM67010) | 2 |
| 2 | 10345 | BEARING CONE 1-1/4ID (LM67048) | 2 |
| 3 | 244585 | PACKER SPINDLE | 1 |
| 4 | 88340 | NUT SLTD 7/8-14NF 5Z | 1 |
| 5 | 89461 | BLT-WHL 1/2-20 UNF X .75 | 4 |
| 6 | 88354 | WSHR FLT 7/8SAE(15/16 X 1-3/4) Z | 1 |
| 7 | 88550 | FTG GRS 1/4-28 3038-B | 1 |
| 8 | 88560 | PIN COT 1/8DIAX1-1/4 Z | 1 |
| 9 | A33555 | SEAL RETAINER | 1 |
| 10 | A33556 | SEAL COUNTERFACE | 1 |
| 11 | A33557 | V-SEAL | 1 |
| 12 | A33879 | HUBCAP | 1 |
| 13 | A34545 | PACKER HUB | 1 |

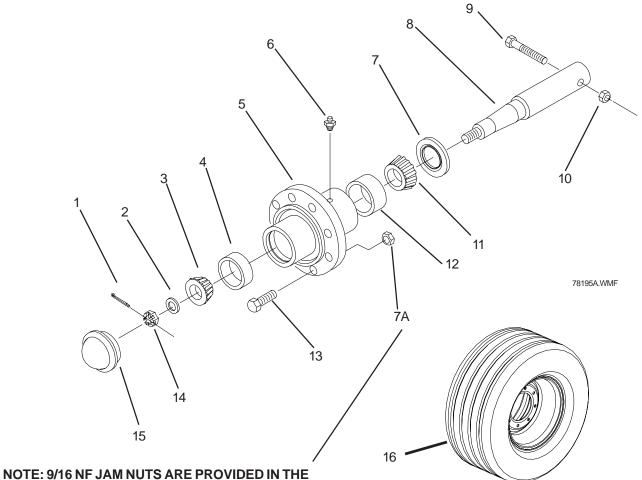
6-BOLT HUB & 2" SPINDLE



77836.PLT

| ITEM | PART NO. 14131 | DESCRIPTION 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



NOTE: 9/16 NF JAM NUTS ARE PROVIDED IN THI MAIN HARDWARE KIT TO LOCK THE WHEEL BOLTS ON ALL 8 BOLT HUBS

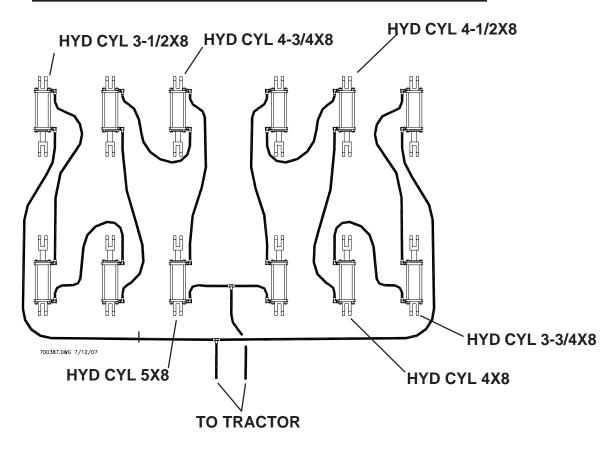
| ITEM | PART NO | DESCRIPTION | ITEM |
|------|---------|-----------------------------------|------|
| | 16154 | 8-BOLT HUB & SPINDLE (RED) | 8 |
| | | (INCLUDES ITEMS 1-8 & 11-15) | 9 |
| 1 | 88301 | 3/16x1-1/2 COTTER PIN | 10 |
| 2 | 64050 | 2-1/20Dx1-1/16ID SPINDLE WASHER | 11 |
| 3 | 16081 | OUTER BEARING CONE (TIMKIN# 2790) | 12 |
| 4 | 16082 | OUTER BEARING CUP (TIMKIN# 2720) | 13 |
| 5 | 41054 | 8-BOLT PRESSED HUB (RED) | 14 |
| | | (INCLUDES ITEMS 4, 6 & 12) | 15 |
| 6 | 88143 | 1/4NPT GREASE FITTING | 16 |
| 7 | 235298 | 2-1/2" TRIPLE LIP SEAL | |
| 7A | 89458 | NUT JAM 9/16-18 NF Z | |

ITEM PART NO DESCRIPTION 8 16156 2-1/2" AXLE SPINDLE (14-3/4) 9 88298 5/8NCx4 GR5 BOLT 10 88369 5/8NC LOCK NUT

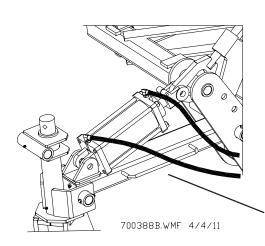
| 10 | 00309 | JONG LOCK NUT |
|----|--------|-----------------------------------|
| 11 | 16083 | INNER BEARING CONE (TIMKIN# 3780) |
| 12 | 16084 | INNER BEARING CUP (TIMKIN# 3720) |
| 13 | 63831 | 9/16NFx1-1/8 90° WHEEL BOLT |
| 14 | 88299 | 1NF SLOTTED NUT |
| 15 | 16077 | DUSTCAP |
| 16 | 222259 | 31x13.5 12 PLY 8 BLT WHEEL ASSY |
| | 20319 | 6 15x10 WHEEL RIM |
| | 57000 | |

| 57908 | VALVE ASSEMBLY |
|--------|--------------------|
| 222088 | 31x13.5 12PLY TIRE |

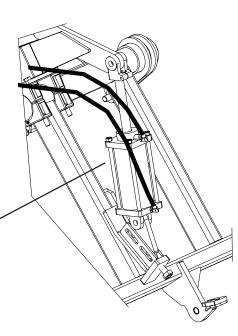
MAIN LIFT BYPASS CYLINDER CIRCUIT



REFER TO PAGE 49 FOR LOCATIONS OF CYLINDERS ON THE MAIN UNIT

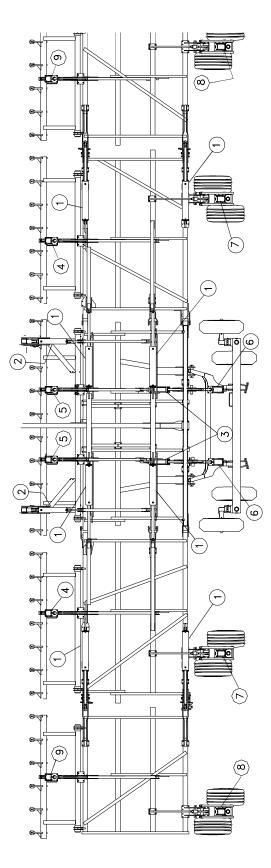


NOTE: CYLINDERS ON FRONT LIFT AXLES AND REAR PACKER LIFTS MUST BE MOUNTED WITH RODS UP AS SHOWN. IF THE CYLINDERS HAVE PORTS ON THE SIDES THESE PORTS CAN BE UTILIZED IF REQUIRED. CHECK FOR FITTING AND HOSE **INTERFERENCE BEFORE AND** WHILE ACTIVATING ALL CYLINDERS. ROUTE HOSES TO CLEAR ANY OBSTRUCTIONS OR PINCH POINTS WHEN **OPERATING.**



700388A.WMF 4/4/11

CYLINDER LOCATIONS & SEAL KITS



| SEAL KIT DESCRIPTION | SEAL KIT 5IN (FGS-SK-ACGU5Q2Q) | SEAL KIT 4IN (FGS-SK-ACGZ4Q2Q) | SEAL KIT 4IN ATD BP CYL | SEAL KIT 4-1/2IN ATD BP CYL | SEAL KIT 4-3/4IN ATD BP CYL | SEAL KIT 5IN ATD BP CYL | SEAL KIT 4IN ATD BP CYL | SEAL KIT 3-3/4IN ATD BP CYL | SEAL KIT 3-1/2IN ATD BP CYL |
|----------------------|--------------------------------|--------------------------------|--------------------------|-----------------------------|-----------------------------|-------------------------|-------------------------|-----------------------------|-----------------------------|
| | 233802 | 233838 | 241670 | 241671 | 241672 | 241673 | 241670 | 241669 | 241668 |
| QTY | œ | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 7 |
| DESCRIPTION | HYD CYL 5X30 ILP FGS #A519CY07 | HYD CYL 4X16 ILP #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 |

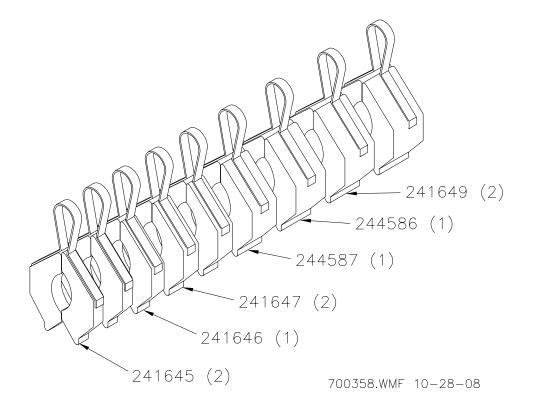
0 8 4 9 9 7 8 0

700538A 1-24-12

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ITEM

HYDRAULIC STOP COLLARS



| PART NO. | DESCRIPTION | QTY/KIT |
|----------|--|---------|
| 243994 | PAINTED STOP COLLAR KIT - CONTAINS FOLLOWING ITEMS | |
| 241645 | 1/2IN CYLINDER STOP (RED) | 2 |
| 241646 | 5/8IN CYLINDER STOP (ORANGE) | 1 |
| 241647 | 3/4IN CYLINDER STOP (YELLOW) | 2 |
| 241649 | 1-1/2IN CYLINDER STOP (GRAY) | 2 |
| 244587 | 1-1/4 IN CYLINDER STOP (GREEN) | 1 |
| 244586 | 1-7/16 IN CYLINDER STOP (BLUE) | 1 |

| | | | | | | | | | | | | | | | | | | | GY | GY | | | | | | | | |
|--------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | | | | | GY | GY | GY | GY | GY | GY | | | GY | GY | GY | GY | В | GY | GY | GY | GY | GY | | GY | | |
| | GY | GY | GY | GY | GY | GY | В | GY | В | GY | В | GY | GY | GY | В | GY | GY | GY | Υ | Υ | В | GY | В | GY | GY | GY | | |
| | В | GY | В | GY | В | GY | Υ | Υ | Υ | Y | Υ | Υ | В | GY | GN | GN | ß | GN | Υ | Υ | GN | GN | ß | GN | GY | В | | |
| | Υ | Υ | Υ | Υ | ß | GN | 0 | 0 | Υ | Υ | Υ | Υ | GN | GN | 0 | 0 | Υ | Υ | 0 | 0 | Υ | Υ | Υ | Υ | В | Υ | | |
| | Υ | Υ | Υ | Υ | R | R | R | R | R | R | 0 | 0 | Υ | Υ | R | R | R | R | R | R | Υ | Υ | Υ | Υ | GN | Υ | | |
| | R | R | 0 | 0 | R | R | R | R | R | R | R | R | Υ | Υ | R | R | R | R | R | R | R | R | 0 | 0 | Υ | 0 | | |
| TOTAL DIM | 4.94 | 5 | 5.06 | 5.12 | 5.18 | 5.25 | 5.31 | 5.38 | 5.44 | 5.5 | 5.56 | 5.62 | 5.69 | 5.75 | 5.81 | 5.88 | 5.94 | 6 | 6.06 | 6.12 | 6.18 | 6.25 | 6.31 | 6.38 | 6.44 | 6.56 | | |
| | | | | | | | | | | | В | GY | | | | | | | | | | | GY | GY | GY | GY | GY | GY |
| | В | GY | В | GY | | | | | | | Υ | Υ | GY | GY | GY | GY | | | GY | GY | GY | GY | В | GY | GY | GY | В | GY |
| | Υ | Υ | Υ | Υ | Ŗ | GY | GY | GY | GY | GY | 0 | 0 | В | GY | В | GY | GY | GY | В | GY | В | GY | 0 | 0 | Υ | Υ | Υ | Υ |
| | R | R | 0 | 0 | В | GY | В | GY | В | GY | R | R | R | R | 0 | 0 | Ν | GY | Υ | Υ | Υ | Υ | R | R | R | R | 0 | 0 |
| | R | R | Я | R | R | Я | 0 | 0 | А | Υ | R | R | Я | Я | R | R | ND | GN | 0 | 0 | Υ | А | Я | R | R | Я | R | R |
| TOTAL DIM | 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 |
| | | | | | | | 0 | | Υ | | | | | | | GN | В | GY | В | GY | В | GR | В | GY | | | 0 | 0 |
| | R | 0 | Υ | Υ | | Υ | R | IJ | 0 | в | H | В | GY | z | GY | 0 | R | R | 0 | 0 | Υ | Υ | Υ | Υ | GY | GY | R | R |
| | R | R | R | 0 | В | Υ | R | R | R | R | R | 0 | 0 | Υ | Υ | R | R | R | R | R | R | R | 0 | 0 | В | GY | R | R |
| TOTAL DIM | 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 |

STOP COLLAR COMBINATIONS

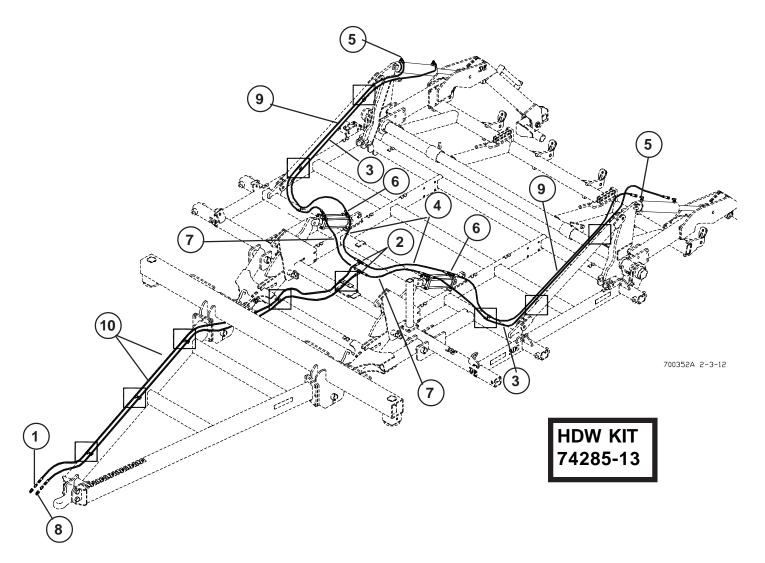
700453.WMF 1-5-08

| 1.25 | 1.438 | 1.5 |
|-------|-------|------|
| GN | В | GY |
| GREEN | BLUE | GRAY |

| RED | R | 0.5 |
|--------|---|-------|
| ORANGE | 0 | 0.625 |
| YELLOW | Υ | 0.75 |

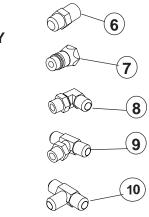
HYDRAULIC STOP COLLARS COMBINATIONS

HOSE ROUTING - 50'/60' TRANSPORT LIFT



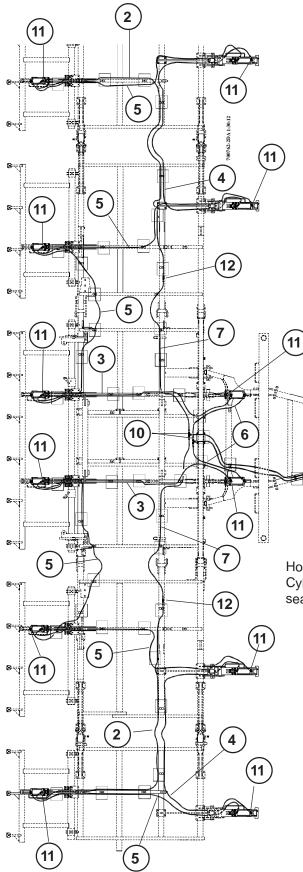
Hose are equipped with JIC fittings, tighten to seal, do not overtighten. Cylinder port require O-ring fittings, tighten to compress the O-ring to seal. Pipe thread fitting require some type of thread sealant to seal.

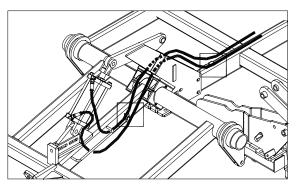
| | | | | 6 |
|------|---------|-----------------------------|-----|----------|
| ITEM | PART NO | DESCRIPTION | QTY | V |
| 1 | 13234 | ADP 8MJ X 8MPT | 2 | 6 |
| 2 | 13238 | TEE 8MJ X 8MJ X 8MJ | 2 | U |
| 3 | 13484 | HSE 3KPSI 3/8X156 8FJX-8FJX | 2 | J. |
| 4 | 15515 | HSE 3KPSI 3/8X62 8FJX-8FJX | 2 | Q |
| 5 | 25580 | ELB 8MORB X 8MJ | 4 | (|
| 6 | 56534 | TEE 8MJ X 8MJ X 8MORB | 4 | Ź |
| 7 | 56539 | HSE 3KPSI 3/8X50 8FJX-8FJX | 2 | Q |
| 8 | 60640 | QUICK DISCONNECT COUPLER | 2 | (|
| 9 | 67634 | HSE 3KPSI 3/8X132 8FJX-8FJX | 2 | 6 |
| 10 | 237264 | HSE 3KPSI 1/2X234 8FJX-8FJX | 2 | <i>v</i> |
| | | | | |



5015/6015 ATD ASSY/OPER/PARTS MANUAL (79973B) 2/12

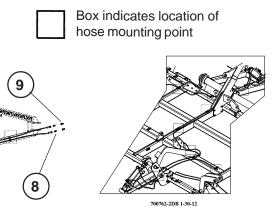
HOSE ROUTING - 15.2 M (50FT) MAIN LIFT



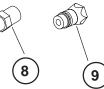


700762-2DC 1-30-12

Refer to cylinder hose routing and cylinder location information on Page 59. Route hoses approximately as shown, retain with c;lamps and hardware to hose mounts. 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 fittings require some type of thread sealant to seal.



1





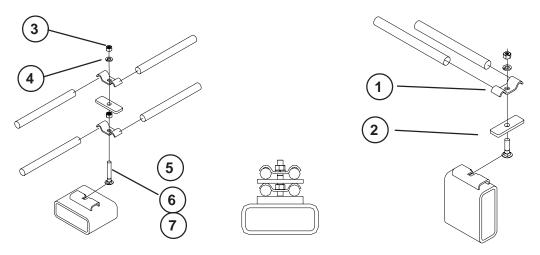




HOSE ROUTING - 15.2 M (50FT) MAIN LIFT

| ITEM | PART NO. | DESCRIPTION | QTY |
|------|----------|-----------------------------|-----|
| 1 | 237264 | HSE 3KPSI 1/2X234 8FJX-8FJX | 2 |
| 2 | 233688 | HSE 3KPSI 3/8X252 8FJX-8FJX | 2 |
| 3 | 233689 | HSE 3KPSI 3/8X180 8FJX-8FJX | 2 |
| 4 | 234939 | HSE 3KPSI 3/8X220 8FJX-8FJX | 2 |
| 5 | 234947 | HSE 3KPSI 3/8X194 8FJX-8FJX | 6 |
| 6 | 15515 | HSE 3KPSI 3/8X62 8FJX-8FJX | 2 |
| 7 | 13483 | HSE 3KPSI 3/8X120 8FJX-8FJX | 2 |
| 8 | 13234 | ADP 8MJ X 8MPT | 2 |
| 9 | 60640 | QUICK DISCONNECT COUPLER | 2 |
| 10 | 13238 | TEE 8MJ X 8MJ X 8MJ | 2 |
| 11 | 25580 | ELD 8MORB X 8MJ | 24 |
| 12 | 13239 | APD UNION 8MJ X8MJ | 2 |

HOSE CLAMPING - ALL SYSTEMS & MODELS

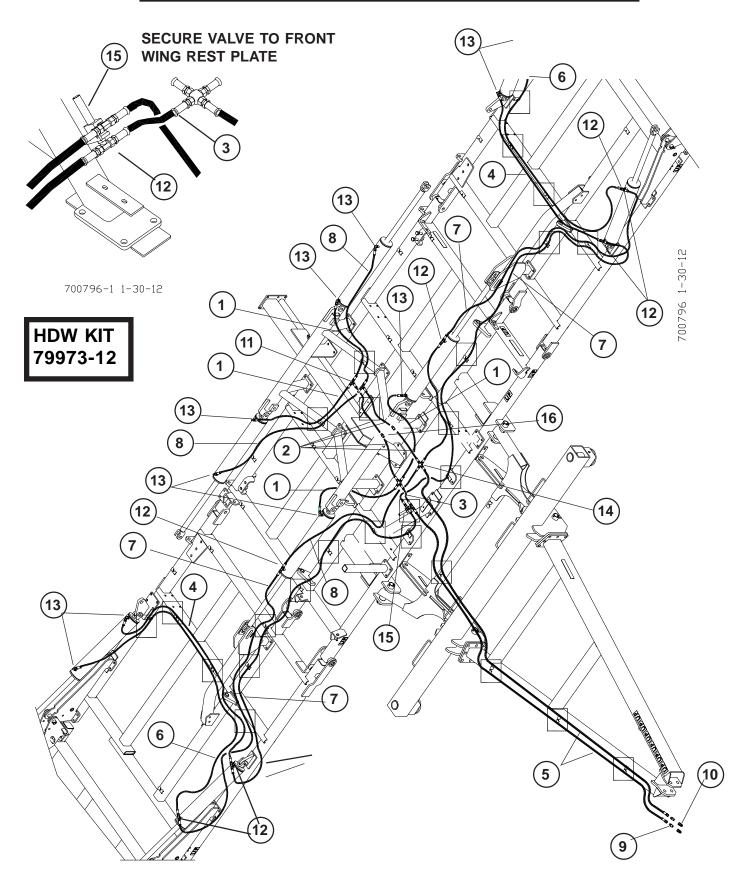


700798 1/30/12

ATTACH HOSES AS SHOWN. ROUTE ALL HOSES BEFORE ANY HARDWARE IS SECURED. QUANTITY AND COMBINATION OF HARDWARE VARIES BY MODEL

| ITEM | PART NO | DESCRIPTION |
|------|---------|-----------------------------|
| 1 | 13215 | TUBE CLAMP |
| 2 | 15543 | BASE PLATE - ZINC |
| 3 | 88103 | NUT HEX 3/8-16NC 5Z |
| 4 | 88362 | WSHR HLK 3/8ID Z |
| 5 | 89375 | BLT CRG 3/8-16NC X 1-1/2 5Z |
| 6 | 89473 | BLT CRG 3/8-16NC X 2-1/2 5Z |
| 7 | 89494 | BLT CRG 3/8-16NC X 6 5Z |
| | | |

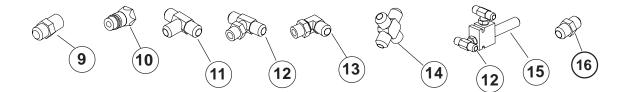
HOSE ROUTING - 15.2 M (50FT) MAIN FOLD



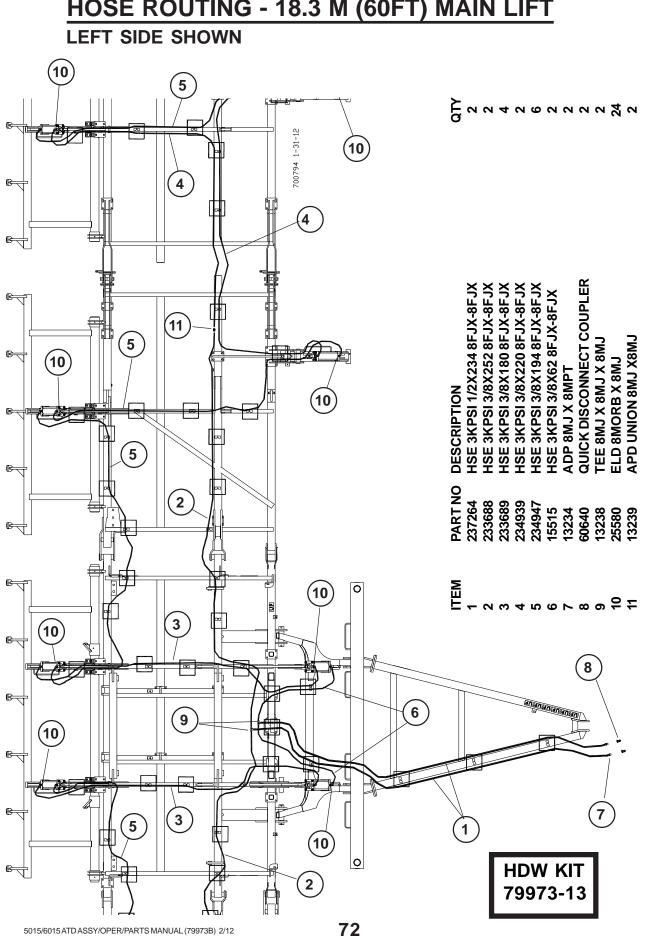
HOSE ROUTING - 15.2 M (50FT) MAIN FOLD

Set sequence valve (15) by adjusting valve screw to control the extension of the outer wing fold cylinders. Turn adjust screw counter-clockwise from factory setting to retard the inner wing fold

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.



| ITEM NO. | PART NO. | DESCRIPTION | QTY |
|----------|----------|-----------------------------|-----|
| 1 | 56539 | HSE 3KPSI 3/8X50 8FJX-8FJX | 4 |
| 2 | 240261 | HSE 3KPSI 1/2X36 8FJX-8FJX | 2 |
| 3 | 239088 | HSE 3KPSI 1/2X18 8FJX-8FJX | 1 |
| 4 | 13483 | HSE 3KPSI 3/8X120 8FJX-8FJX | 2 |
| 5 | 237264 | HSE 3KPSI 1/2X234 8FJX-8FJX | 2 |
| 6 | 233689 | HSE 3KPSI 3/8X180 8FJX-8FJX | 2 |
| 7 | 59909 | HSE 3KPSI 3/8X168 8FJX-8FJX | 4 |
| 8 | 13268 | HSE 3KPSI 3/8X78 8FJX-8FJX | 4 |
| 9 | 13234 | ADP 8MJ X 8MPT | 2 |
| 10 | 60640 | QUICK DISCONNECT COUPLER | 2 |
| 11 | 13238 | TEE 8MJ X 8MJ X 8MJ | 2 |
| 12 | 56534 | TEE 8MJ X 8MJ X 8MORB | 8 |
| 13 | 25580 | ELB 8MORB X 8MJ | 10 |
| 14 | 15910 | CROSS 8MJ X 8MJ X 8MJ X 8MJ | 2 |
| 15 | 65870 | SEQUENCE VALVE | 1 |
| 16 | 13239 | UNION 8MJ X 8MJ | 2 |



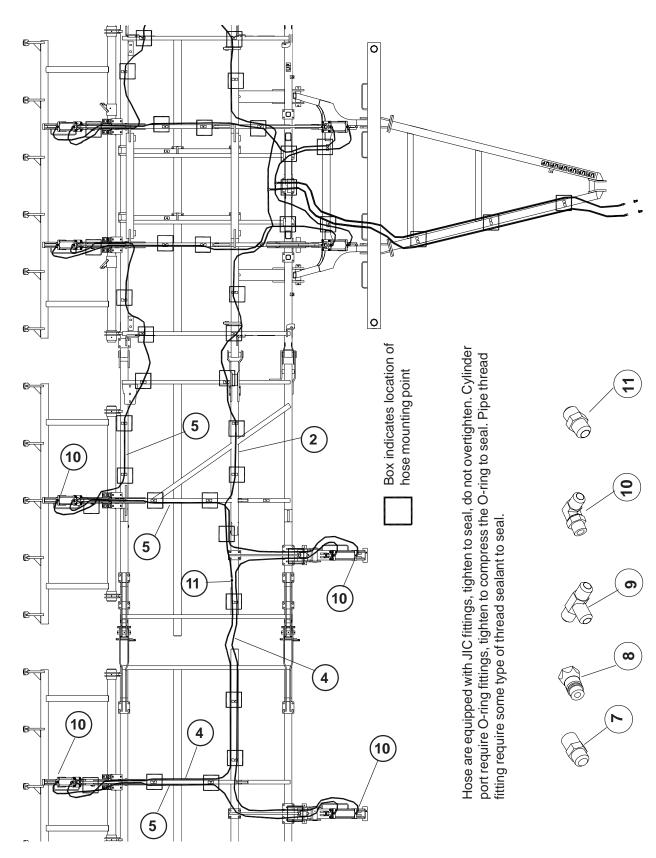
Refer to cylinder hose routing and cylinder location information on Page 59. Route hoses approximately as shown, retain with c;lamps and hardware to hose mounts. Note: hoses and fittings are not to scale.

HOSE ROUTING - 18.3 M (60FT) MAIN LIFT

72

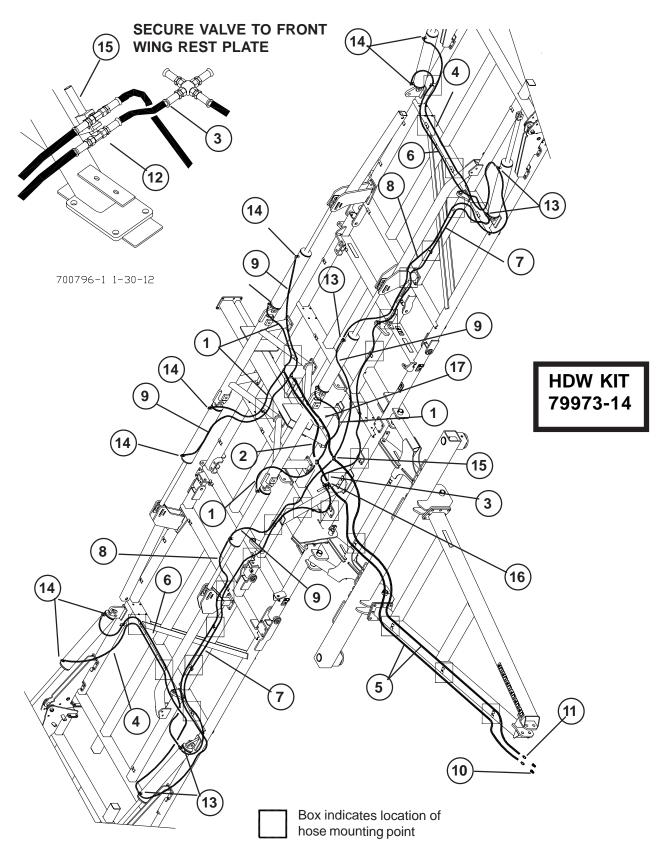
HOSE ROUTING - 18.3 M (60FT) MAIN LIFT

RIGHT SIDE SHOWN



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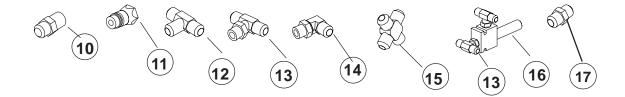
HOSE ROUTING - 18.3 M (60FT) WING FOLD



HOSE ROUTING - 18.3 M (60FT) WING FOLD

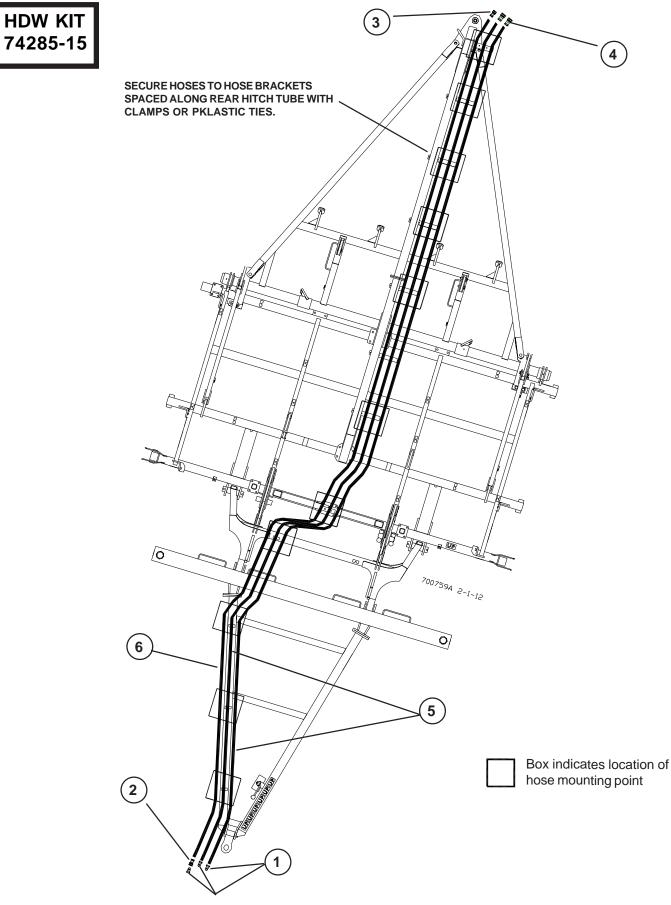
Set sequence valve (15) by adjusting valve screw to control the extension of the outer wing fold cylinders. Turn adjust screw counter-clockwise from factory setting to retard the inner wing fold

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 liquid thread sealing compound.



| ITEM | PART NO | DESCRIPTION | QTY |
|------|---------|-----------------------------|-----|
| 1 | 56539 | HSE 3KPSI 3/8X50 8FJX-8FJX | 4 |
| 2 | 240261 | HSE 3KPSI 1/2X36 8FJX-8FJX | 4 |
| 3 | 239088 | HSE 3KPSI 1/2X18 8FJX-8FJX | 1 |
| 4 | 13483 | HSE 3KPSI 3/8X120 8FJX-8FJX | 2 |
| 5 | 237264 | HSE 3KPSI 1/2X234 8FJX-8FJX | 2 |
| 6 | 233689 | HSE 3KPSI 3/8X180 8FJX-8FJX | 2 |
| 7 | 234939 | HSE 3KPSI 3/8X220 8FJX-8FJX | 2 |
| 8 | 234947 | HSE 3KPSI 3/8X194 8FJX-8FJX | 2 |
| 9 | 13268 | HSE 3KPSI 3/8X78 8FJX-8FJX | 4 |
| 10 | 13234 | ADP 8MJ X 8MPT | 2 |
| 11 | 60640 | QUICK DISCONNECT COUPLER | 2 |
| 12 | 13238 | TEE 8MJ X 8MJ X 8MJ | 2 |
| 13 | 56534 | TEE 8MJ X 8MJ X 8MORB | 8 |
| 14 | 25580 | ELB 8MORB X 8MJ | 10 |
| 15 | 15910 | CROSS 8MJ X 8MJ X 8MJ X 8MJ | 2 |
| 16 | 65870 | SEQUENCE VALVE | 1 |
| 17 | 13239 | UNION 8MJ X 8MJ | 2 |

HOSE ROUTING - 50/60FT REAR SEEDER SUPPLY



HOSE ROUTING - 50/60FT REAR SEEDER SUPPLY



3/4 FEMALE COUPLER 240301



1/2 FEMALE COUPLER 239899



QUICK DISCONNECT MALE **COUPLER - 60640**

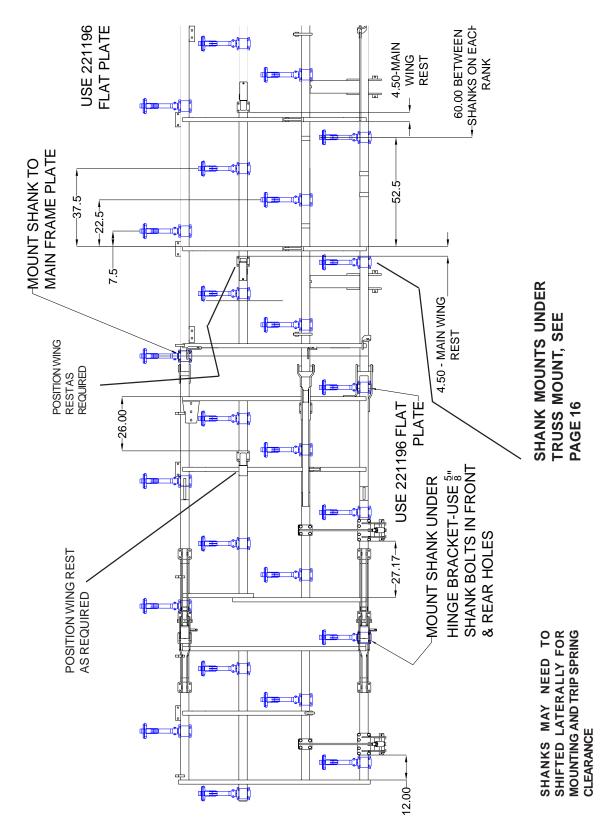


1/2 FEMALE PIONEER COUPLER - 236170

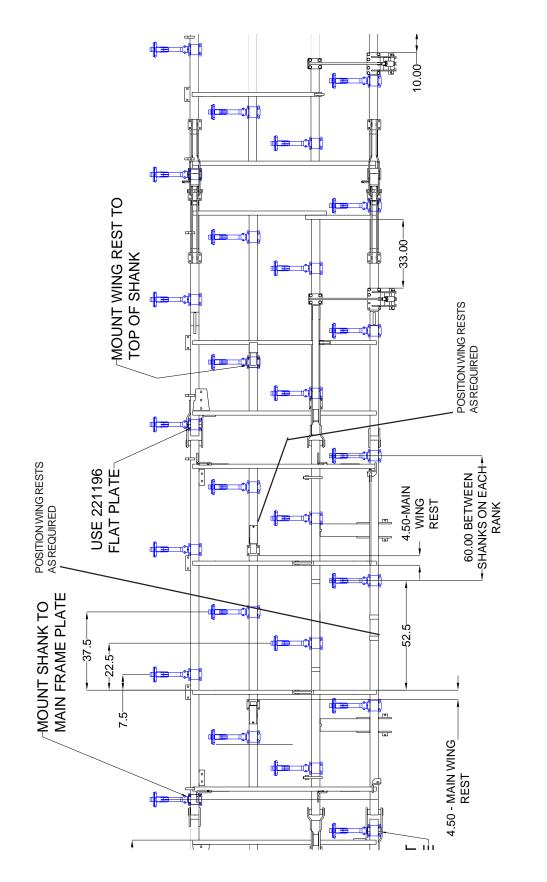
| ITEN | PART NO | DESCRIPTION | QTY |
|------|---------|-------------------------------------|-----|
| 1 | 60640 | QUICK DISCONNECT COUPLER | 3 |
| 2 | 236170 | DOUBLE ACTING FEMALE CPLR (4250-4P) | 1 |
| 3 | 239899 | 1/2 FEMALE QUICK COUPLER | 1 |
| 4 | 240301 | 3/4 QUICK FEMALE COUPLER | 2 |
| 5 | 241747 | HSE 3KPSI 3/4X456 8MPT-12MPT | 2 |
| 6 | 241748 | HSE 3KPSI 1/2X456 8MPT-8MPT | 1 |

These hoses are equipped with male pipe threads. Pipe thread fitting require some type of liquid thread sealant to seal. Route hoses as shown, secure with hose brackets or plastic ties as required.

RIGHT SIDE SHANK SPACINGS - 15.2 M (50- FT)

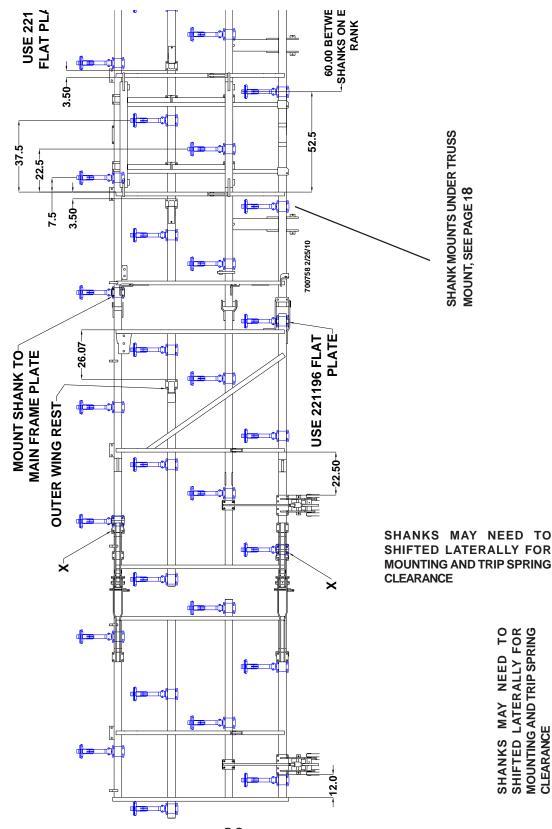


LEFT SIDE SHANK SPACINGS - 15.2 M (50- FT)



SHANKS MAY NEED TO SHIFTED LATERALLY FOR MOUNTING AND TRIP SPRING CLEARANCE

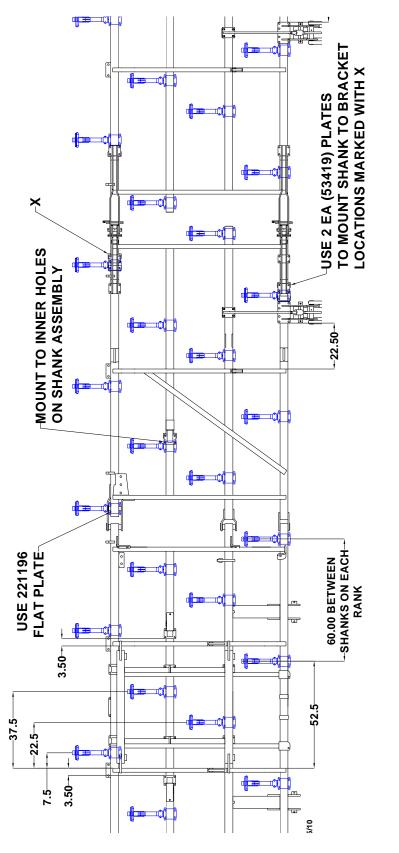
RIGHT SIDE SHANK SPACINGS - 18.3 M (60FT)



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SHANKS MAY NEED TO SHIFTED LATERALLY FOR MOUNTING AND TRIP SPRING CLEARANCE

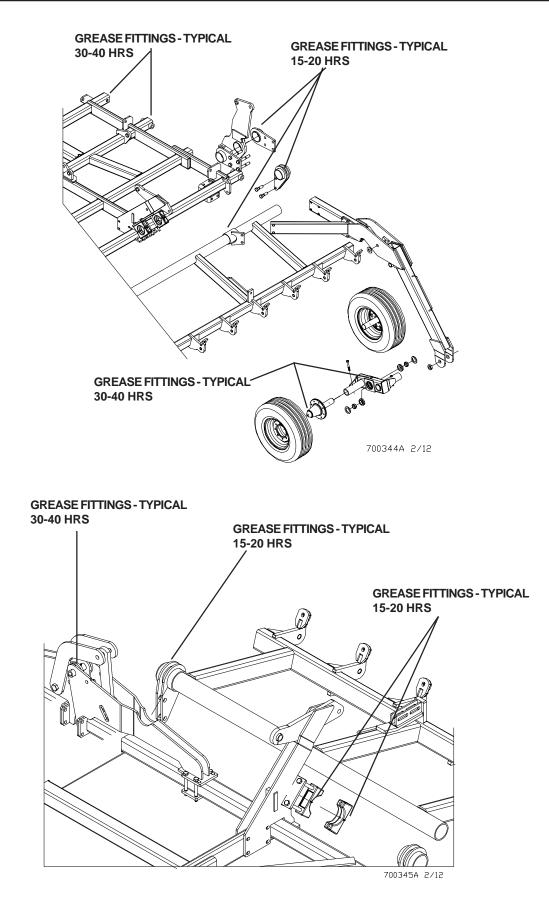
LEFT SIDE SHANK SPACINGS - 18.3 M (60FT)



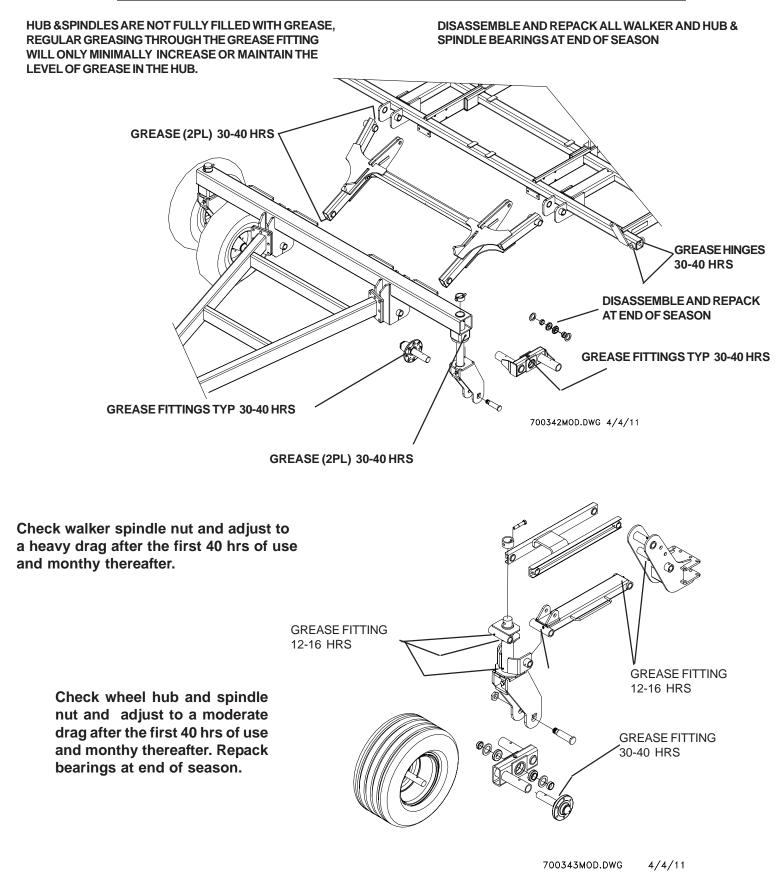
SHANKS MAY NEED TO SHIFTED LATERALLY FOR MOUNTING AND TRIP SPRING CLEARANCE

5015/6015 ATD ASSY/OPER/PARTS MANUAL (79973B) 2/12

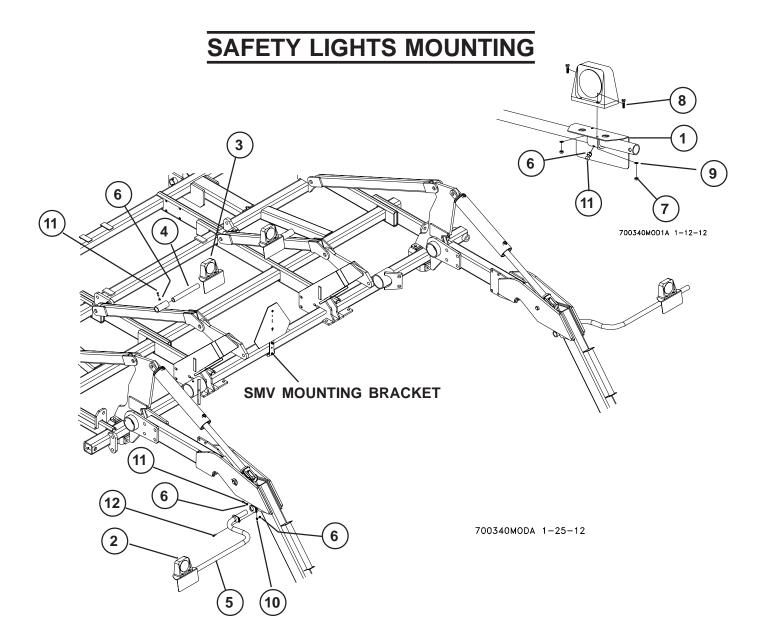
GREASE FITTING LOCATION/SERVICE INTERVAL



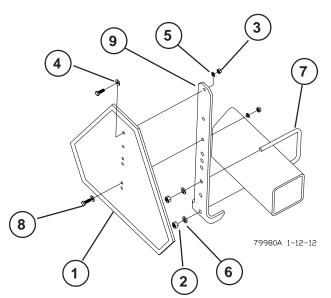
GREASE FITTING LOCATION/SERVICE INTERVAL



5015/6015 ATD ASSY/OPER/PARTS MANUAL (79973B) 2/12



| ITEM | PART NO. | DESCRIPTION | QTY |
|------|----------|---------------------------------|-----|
| 1 | 223126 | LIGHT/REFLECTOR BRACKET | 4 |
| 2 | 223143 | AG LIGHT, SINGLE AMBER TRI-PLUG | 2 |
| 3 | 223144 | AG LIGHT, SINGLE RED TRI-PLUG | 2 |
| 4 | 223160 | 12 LIGHT ARM | 2 |
| 5 | 240238 | 48IN OFFSET LIGHT ARM W/LOCK | 2 |
| 6 | 88103 | NUT HEX 3/8-16NC 5Z | 12 |
| 7 | 88172 | NUT HEX 1/4-20NC 5Z | 16 |
| 8 | 88203 | BLT HEX 1/4-20NCX1 5Z | 16 |
| 9 | 88262 | WSHR HLK 1/4ID(5/16ACT) Z | 16 |
| 10 | 88362 | WSHR HLK 3/8ID Z | 2 |
| 11 | 88702 | SCR SET 3/8NCX3/4 SQHD CUP-PT P | 10 |
| 12 | 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.

| ITEM | PART NO | DESCRIPTION |
|------|---------|--------------------------------|
| 1 | 30651 | SMV EMBLEM S276.6 |
| 2 | 88103 | NUT HEX 3/8-16NC 5Z |
| 3 | 88172 | NUT HEX 1/4-20NC 5Z |
| 4 | 88261 | WSHR FLAT 1/4(5/16 X 3/4ACT) Z |
| 5 | 88262 | WSHR HLK 1/4ID(5/16ACT) Z |
| 6 | 88362 | WSHR HLK 3/8ID Z |
| 7 | 88385 | BLT-U 3/8-16NCX4X5 Z |
| 8 | 88993 | BLT HEX 1/4-20NC X 3/4 5Z |
| 9 | 350933 | SMV BRACKET |
| | | |

NOTE: REFER TO LIGHT PLACEMENT INSTRUCTIONS SPECIFIC TO THIS UNIT. THIS SHOWS BASIC WIRE CONNEC-TIONS.

2 2 1 2 1

SAFETY LIGHTS

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

