

OPERATOR'S MANUAL

ASSEMBLY & OPERATING

PT 7722 PULL-TYPE ROW CROP CULTIVATOR



PO Box 1030 Wahpeton, ND 58074 PH (701) 642-2621 Fax (701) 642-3372 Parts Fax (701) 642-3819

WARRANTY

The only warranty Wil-Rich gives and the only warranty the dealer is authorized to give is as follows:

We warrant products sold by us to be in accordance with our published specifications or those specifications agreed to by us in writing at time of sale. Our obligation and liability under this warranty is expressly limited to repairing, or replacing, at our option, within 12 months after date of retail delivery, any product not meeting the specifications. We make no other warranty, express or implied and make no warranty of merchantability or of fitness for any particular purpose. Our obligation under the warranty shall not include any transportation charges or costs or installation or any liability for direct, indirect or consequential damage or delay. If requested by us, products or parts for which a warranty claim is made are to be returned transportation prepaid to our factory. Any improper use, operation beyond rated capacity, substitution of parts not approved by us, or any alteration or repair by others in such manner as in our judgment affects the product materially and adversely shall void this warranty. No employee or representative is authorized to change this warranty in any way or grant any other warranty.

Wil-Rich reserves the right to make improvement changes on any of our products without notice.

When warranty limited or not applicable: Warranty on hoses, cylinders, hubs, spindles, engines, valves, pumps or other trade accessories are limited to the warranties made by the respective manufactures of these components. Rubber tires and tubes are warranted directly by the respective tire manufacturer only, and not by Wil-Rich.

Warranty does not apply to any machine or part which has been repaired or altered in any way so as in the our judgment to affect its reliability, or which has been subject to misuse, negligence or accident.

A Warranty Validation and Delivery Report Form must be filled out and received by Wil-Rich to initiate the warranty coverage.

WARRANTY CLAIMS PROCEDURE

- 1. The warranty form must be returned to Wil-Rich within fifteen (15) working days from the repair date.
- 2. Parts returned to Wil-Rich without authorization will be refused. The parts must be retained at the dealership for ninety (90) days after the claim has been filed. If the Service Department would like to inspect the parts, a packing slip will be mailed to the dealer. The packing slip must be returned with the parts. The parts must be returned prepaid within thirty (30) days of receiving authorization. After the parts are inspected and warranty is verified, credit for the return freight will be issued to the dealer.
- 3. Parts that will be scrapped at the dealership will be inspected by a Wil-Rich Sales Representative, District Sales Manager or Service Representative within the ninety (90) day retaining period.

TO THE OWNER

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

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

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

WIL-RICH	LLC
Wahpeton, ND Serial Number:	
	Made in USA

When in need of parts, always specify the model and serial number. Write this number in the space provided. The serial number plate is on the left main toolbar located on the left side of the lower 7x7.

MODIFICATIONS

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

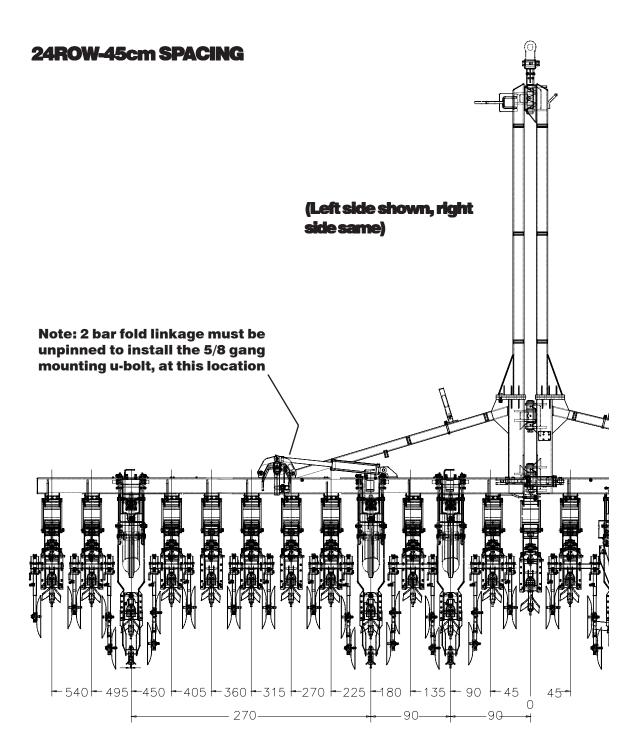
TRADEMARKS

Other product and company names mentioned herein may be trademarks of their respective owners. The use of these names are for reference only, Wil-Rich uses the names only to aid in distinguishing different setups of the Cultivator Bar.

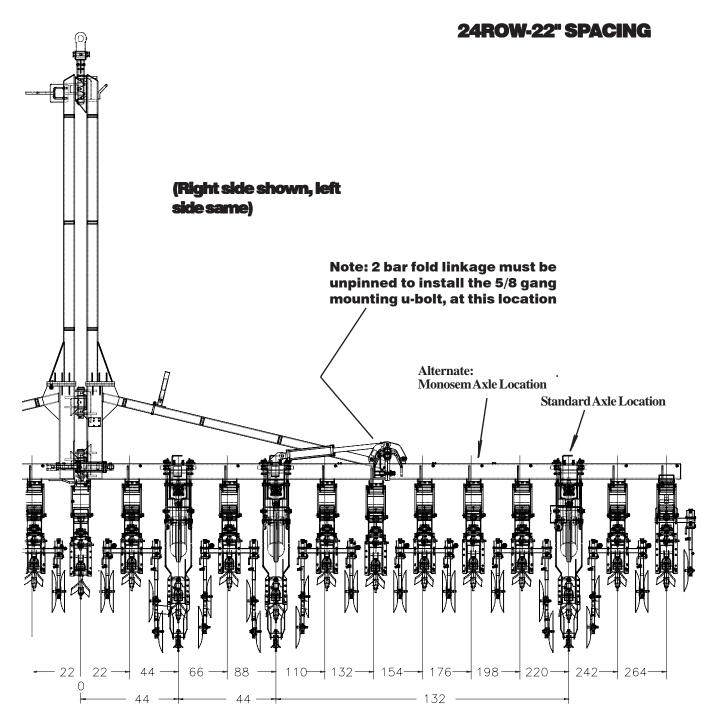
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ASSEMBLY INFORMATION

Gang Placement



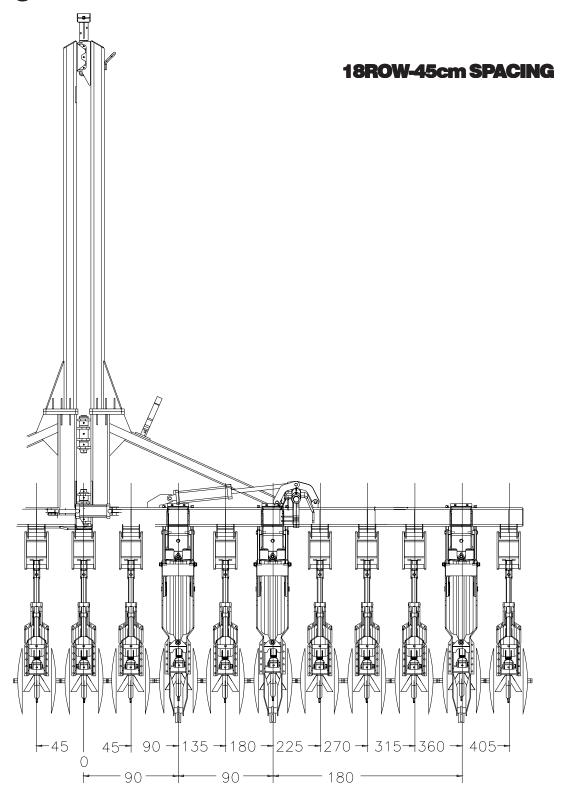
dimensions are in centimeters (cm)



dimensions are in inches (")(in)

ASSEMBLY INFORMATION

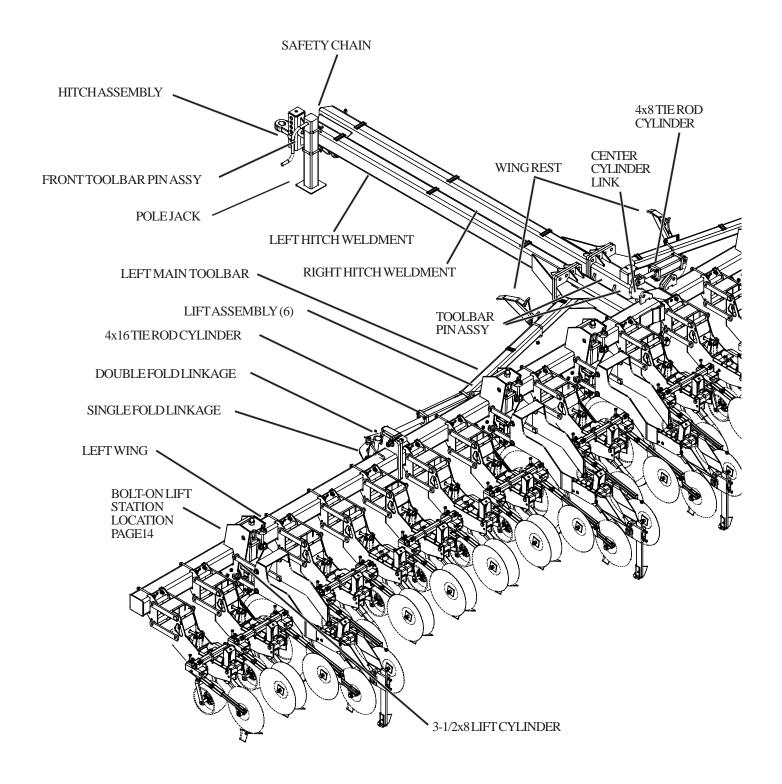
Gang Placement



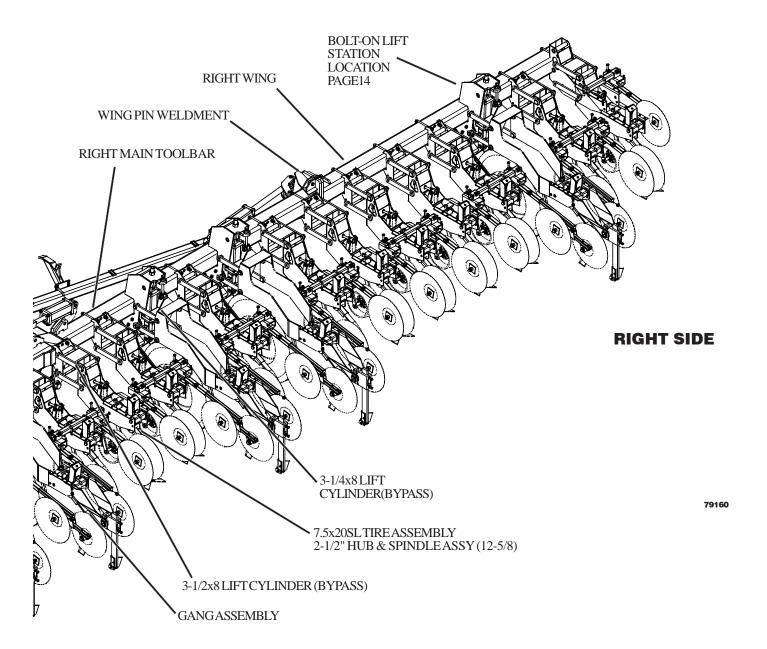
dimensions are in centimeters (cm)

ASSEMBLY INFORMATION

COMPONENT LAYOUT

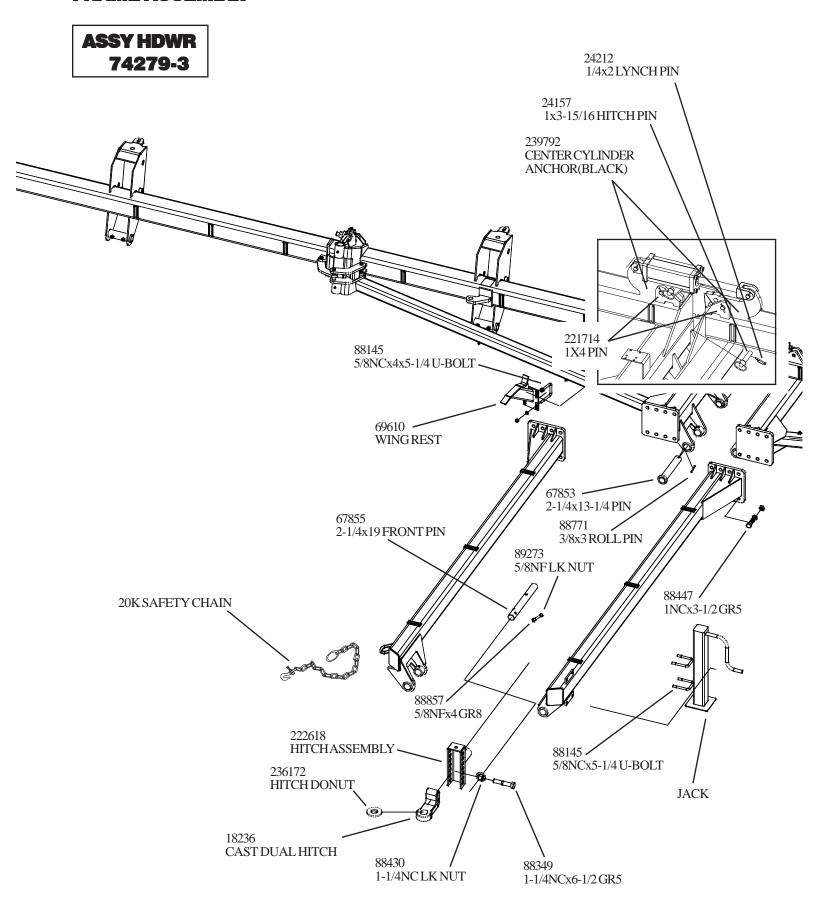


LEFT SIDE

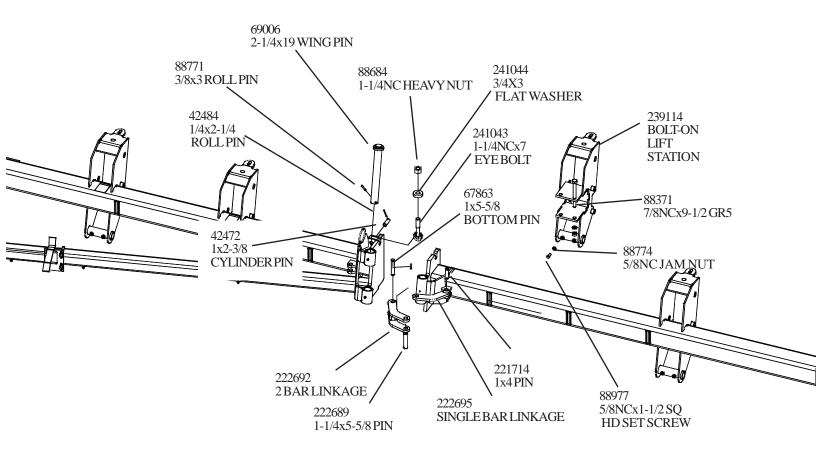


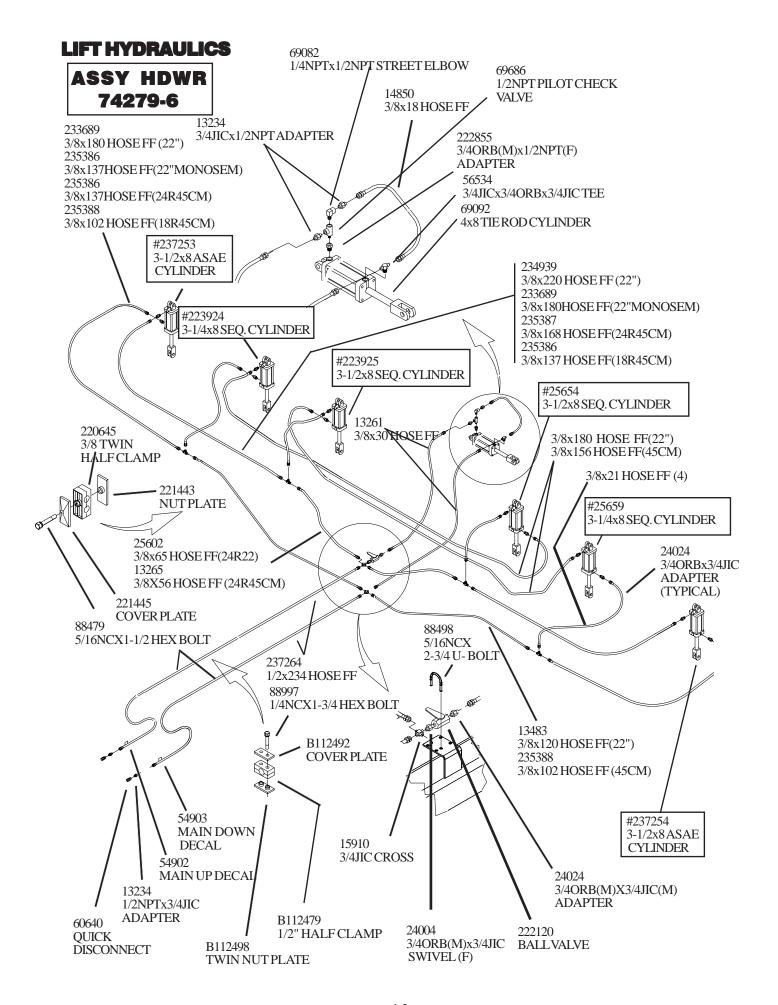


FRAME ASSEMBLY



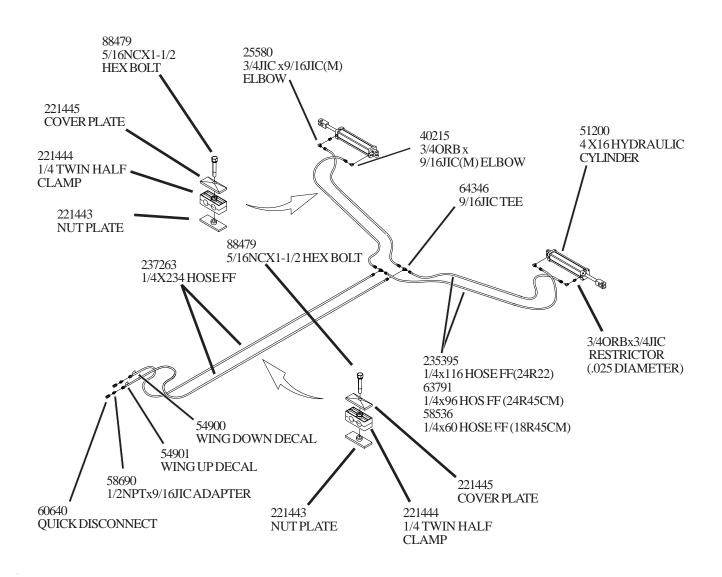
ASSY HDWR 74279-3B



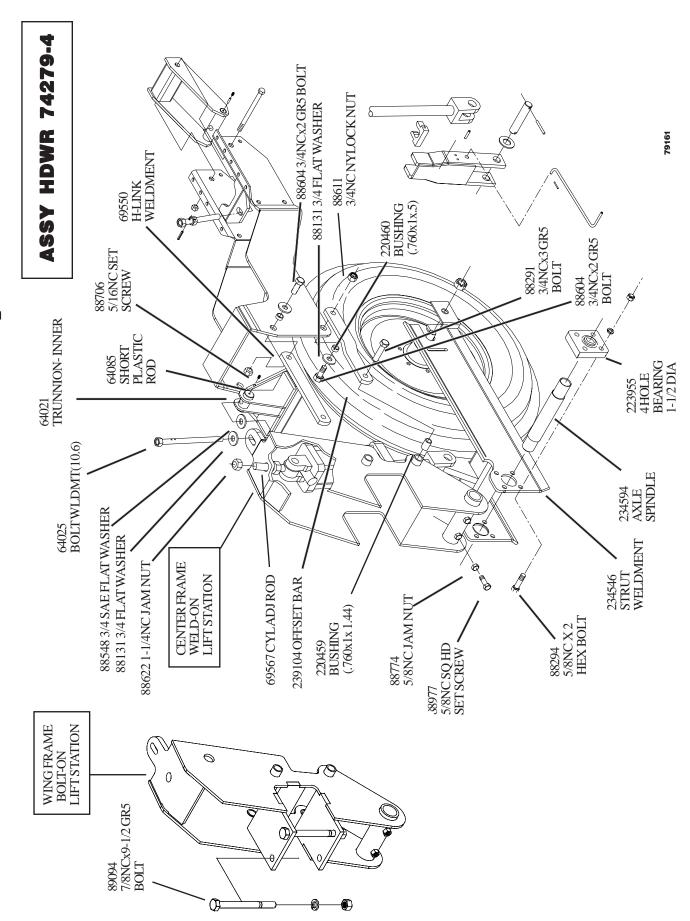


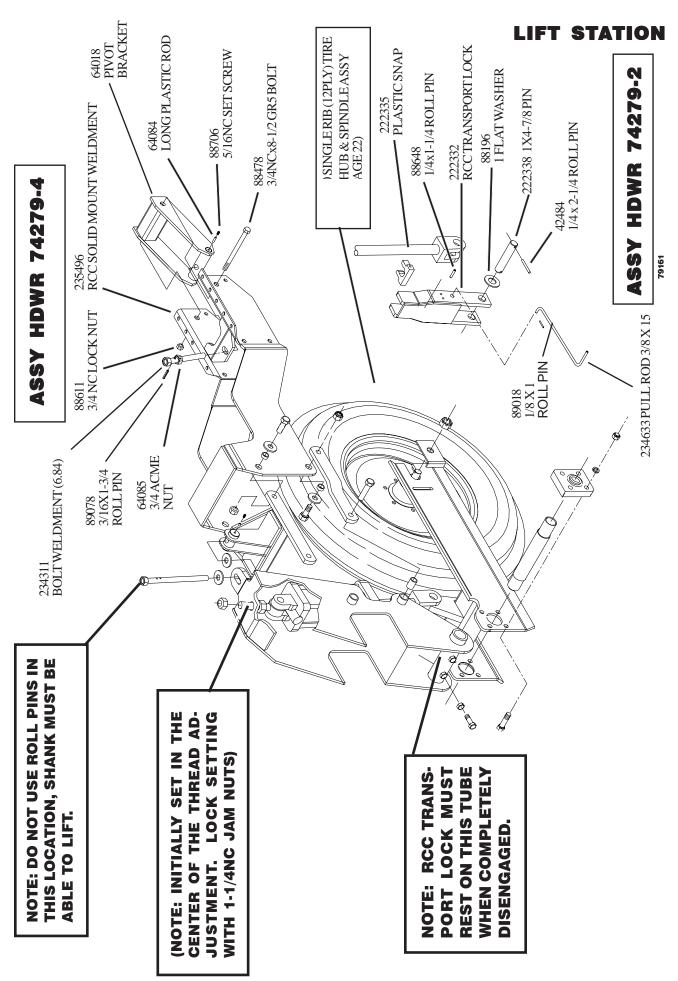
WING FOLD HYDRAULICS

ASSY HDWR 74279-5

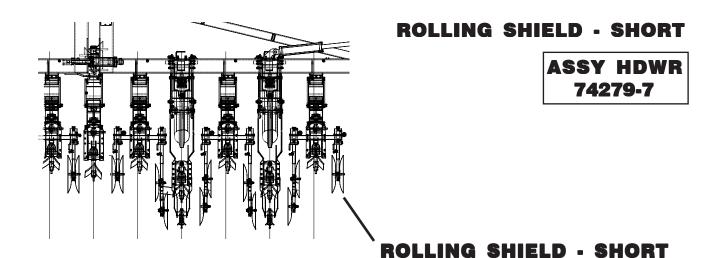


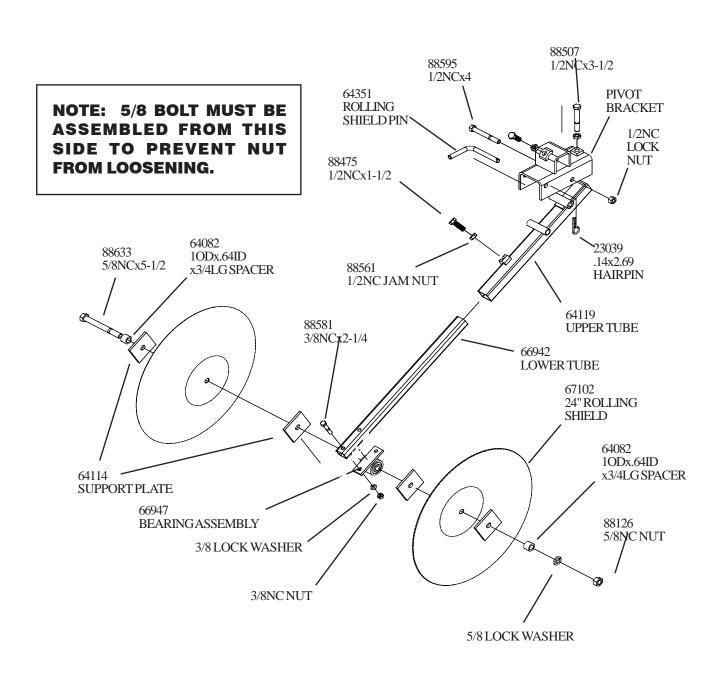
LIFT STATION

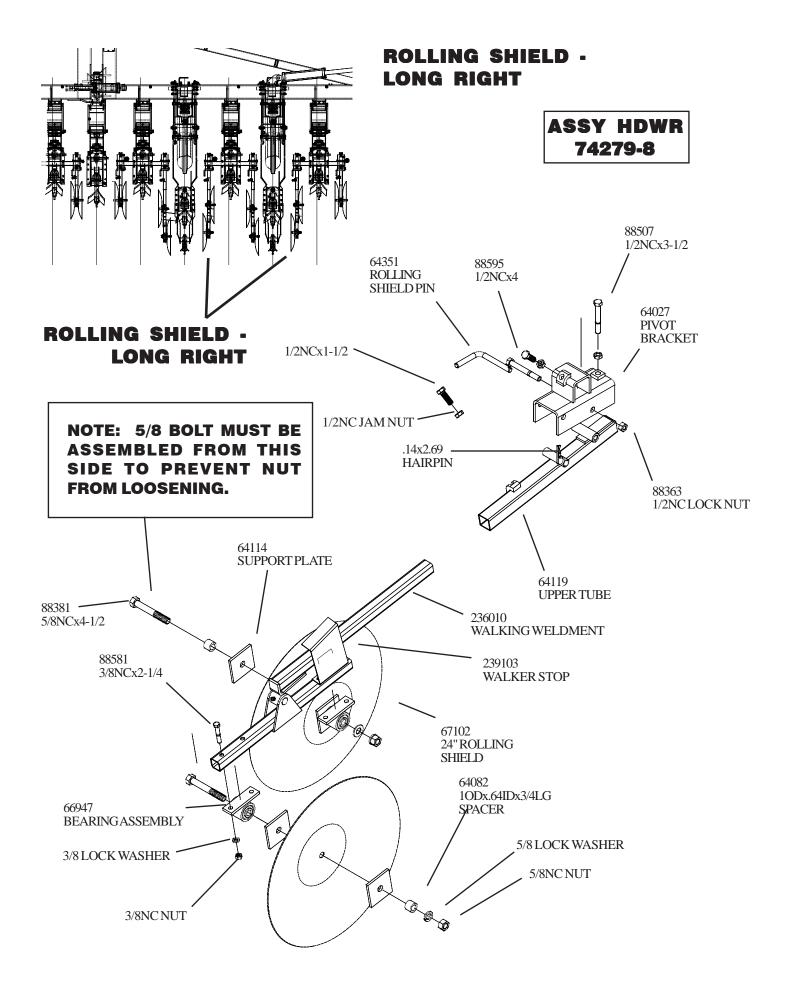


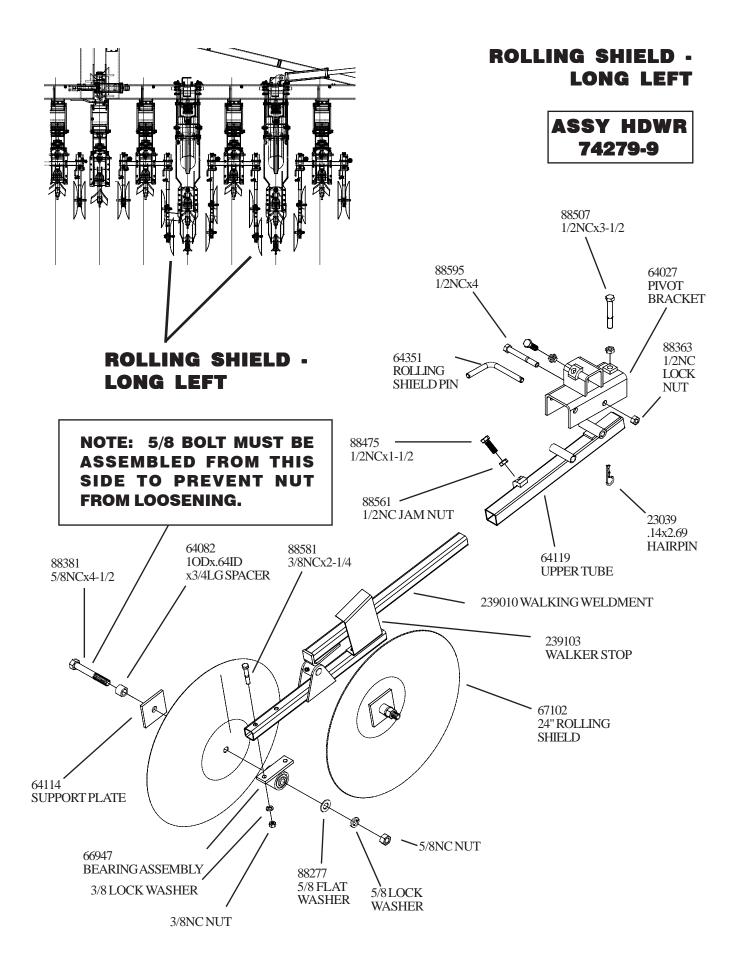


CULTIVATOR GANG ASSEMBLY ASSY HDWR 88294 5/8NCx2 BOLT 74279-1 (QTY4ON CTR GANG ONLY) 89351 5/8NCx7x8-1/2U-BOLT 885425/8x1-1/4OD (2 PER GANG) MACH BSHG (QTY 4 ON CTR GANG ONLY) 883563/4NC LOCKNUT 88295 5/8NCx6GR5 64007 3-1/4" 237074 "H" WELD **REF** 3/4x6ACMEBOLT 242504 **BRACKET** W/FLAT WASHER **GAUGEARM-RH** 89078 88611 64084 3/16x1-3/4 3/4NC NYLON 237185 3/16x2-1/4 **ROLLPIN** LOCKNUT MOUNTING PLASTIC ROD 237184 64088 **BRACKET GANG FRAME** 3/4 FLANGED 64021 BUSHING **INNER** 234249 TRUNION 3/4 ACME NUT 64086 3/4NCx9-3/4 Ò **CARRIAGE** 88706 **BOLT** 5/16NC **SET SCREW** 88706 5/16NC **SET SCREW** 0000 64085 3/16x3/4 PLASTIC ROD 240941 10Dx1.44 89078 · 3/16x1-3/4 88277 BUSHING 5/8 FLAT **ROLLPIN** K C WASHER 3/4NCx8GR5 234662 234656 3/4 ACME NUT 3/4x7 ACME BOLT SHANK PIVOT 86 64083 **BRACKET** 242505 64019 **CROSS BRACE GAUGEARM-LH TRUNION** 88553 23093 3/8NCx1-1/2 **SUPPORT** GR5 WASHER 64081 1ODx2.44 88126 SPACER 5/8NC NUT 0 242509 **DUST CAP** 88477 5/8NCx10GR5 64217 5/8 BORE **GAUGE WHEEL** 88129 5/8 LOCK WASHER **BALL BEARING** 6x12 242512 242509 HUB **DUST CAP** 64081 **ASSY** 10Dx2.44 SPACER 1.06ODx1.69 SPACER





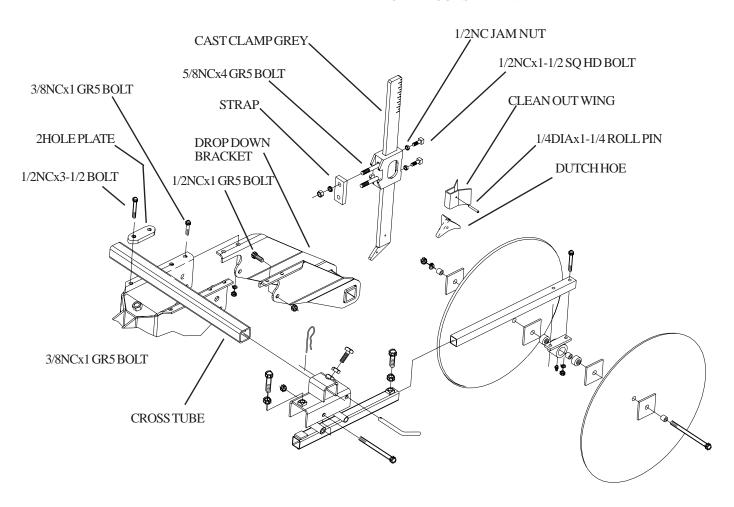




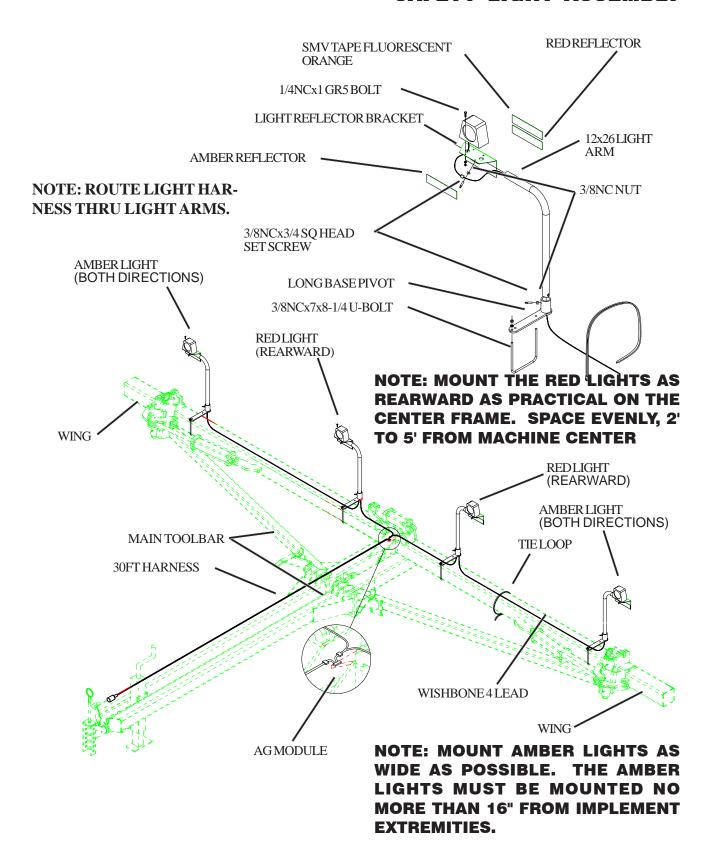
ROLLING SHIELD & CLEAN OUT MOUNT

ASSY HDWR 74279-10

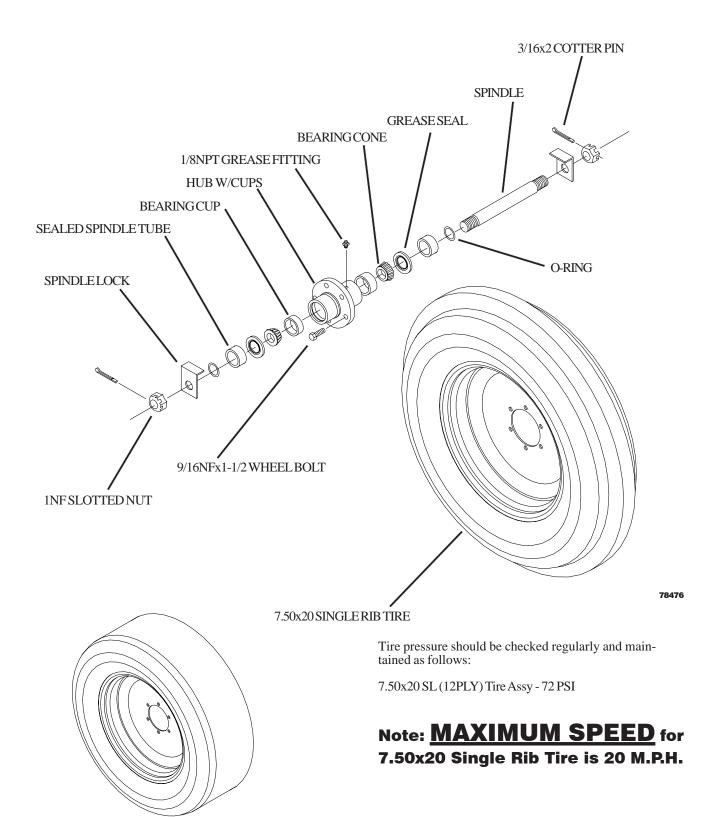
CLEAN OUT SHANK WELDMENT



SAFETY LIGHT ASSEMBLY



2-1/2" HUB & SPINDLE W/7.50x20 SL TIRE ASSY



NOTE: When lengthy road travel is necessary, truck tires can be used on the inside center frame for longer tire wear life.

OPERATION

GENERAL INFORMATION

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

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

Loosely install all bolts connecting mating parts before final tightening.

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

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

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.

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

TORQUE.EPS

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.

A CAUTION

TO AVOID POSSIBLE INJURY:

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

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PERSONAL SAFETY IS IMPORTANT!

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



Why is SAFETY important to you?

3 Big Reasons

Accidents Disable and Kill Accidents Cost
Accidents Can Be Avoided

SIGNAL WORDS:

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

DANGER

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

WARNING

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

CAUTION

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

ADDRESS INQUIRIES TO: WIL-RICH PO BOX 1030 WAHPETON, ND 58074 PH (701) 642-2621 FAX (701) 642-3372

SAFETY

YOU are responsible for SAFE operation and maintenance of your Wil-Rich Cultivator Bar. You must ensure that you and anyone else who is going to operate, maintain or work around the Cultivator Bar be familiar with the operating and maintenance procedures and related safety information contained in this manual. This manual will take you step by step through your working day, alerts you to all good safety practices that should be adhered to while operating this equipment.



Remember, YOU are the key to safety. Good safety practices not only protect you but also the people around you. Make these practices a working part of your safety program. Be certain that EVERYONE operating this equipment is familiar with the recommended operating and maintenance procedures and follows all safety precautions. Most accidents can be prevented. Do not risk injury or death by ignoring good safety practices.

PT 7722 owners must give operating instructions to operators and employees before allowing them to operate the Cultivator Bar, and at least annually thereafter per OSHA regulation 1928.57.

The most important safety device on this equipment is a safe operator. It is the operator's responsibility to read and understand ALL Safety and Operating instructions in the manual and to follow them. All accidents can be avoided.

A person who has not read and understood all operating and safety instructions is not qualified to operate the machine. An untrained operator exposes themselves and bystanders to possible serious injury or death.

Do not modify the equipment in any way. Unauthorized modifications may impair the function and/or safety and could affect the life of the equipment.

Think SAFETY! Work SAFELY!

GENERAL SAFETY

Read and understand the operator's manual and all safety signs before operating, maintaining or adjusting the PT 7722.

Install and properly secure all shields and guards before operating.

Have a first-aid kit available for use should the need arise and know how to use it.

Have a fire extinguisher available for use should the need arise and know how to use it.

Clear the area of people and remove foreign objects from the machine before starting and operating.

Always wear relatively tight and belted clothing to avoid entanglement in moving parts. Wear sturdy, rough-soled work shoes and protective equipment for eyes, hair, hands, hearing and head.

Do not allow riders.

Wear suitable ear protection for prolonged exposure to excessive noise.

Stop tractor engine, place all controls in neutral, set park brake, remove ignition key and wait for all moving parts to stop before servicing, adjusting, repairing or unplugging.

Review safety related items with all operators annually

WARNING

TO AVOID INJURY OR MACHINE DAMAGE:

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

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HYDRAULIC SAFETY

TRANSPORT SAFETY

Always place all tractor hydraulic controls in neutral before dismounting.

Make sure that all components in the hydraulic system are kept in good condition and are clean.

Relieve pressure before working on hydraulic system.

Replace any worn, cut, abraded, flattened or crimped hoses and metal lines.

Do not attempt any makeshift repairs to the hydraulic lines, fittings or hoses by using tape, clamps or cements. The hydraulic system operates under extremely high-pressure. Such repairs will fail suddenly and create a hazardous and unsafe condition.

Wear proper hand and eye protection when searching for high pressure leaks. Use a piece of card-board as a backstop instead of hands to isolate and identify a leak.

If injured by a concentrated high-pressure stream of hydraulic fluid, seek medical attention immediately. Serious infection or toxic reaction can develope from hydraulic fluid piercing the skin surface.

Before applying pressure to the system, make sure all components are tight and that lines, hoses and couplings are not damaged.

Think SAFETY! Work SAFELY!



Read and understand ALL the information in the Operator's Manual regarding procedures and SAFETY when moving Cultivator Bar in the field/yard or on the road.

Check with local authorities regarding transportation on public roads. Obey all applicable laws and regulations.

Always travel at a safe speed. Use caution when making corners or meeting traffic.

Make sure SMV (Slow Moving Vehicle) emblem and all lights and reflectors that are required by the local highway and transport authorities are in place, are clean and can be seen clearly by all overtaking and oncoming traffic

Use a drawbar pin with provisions for a mechanical retainer.

Attach a safety chain before moving.

Keep to the right and yield the right-of-way to allow faster traffic to pass. Drive on the road shoulder, if permitted by law.

Always use hazard warning flashers on tractor when transporting unless prohibited by law.

Do not allow riders.

Do not exceed 20 mph during transport.

STORAGE SAFETY

SAFETY DECALS

Store unit in an area away from human activity.

Do not permit children to play around the stored unit.

Store in a dry, level area. Support the base with planks if required.

Keep safety decals and signs clean and legible at all times.

Replace safety decals and signs that are missing or have become illegible.

Replaced parts that displayed a safety sign should also display the current sign.

Safety decals or signs are available from your Dealer Parts Department.

TIRE SAFETY

Failure to follow proper procedures when mounting a tire on a wheel or rim can produce an explosion which may result in serious injury or death.

Do not attempt to mount a tire unless you have the proper equipment and experience to do the job.

Have a qualified tire dealer or repair service perform required tire maintenance.

WHEEL BOLTS

It is recommended that all wheel bolts be checked for tightness before using and again after one day of use. Paint or rust can work out causing the wheel to become loose. Check periodically to be sure the wheel bolts are tight.

How to install Safety Decals:

Be sure that the installation area is clean and dry.

Decide on the exact position before you remove the backing paper.

Remove the smallest portion of the split backing paper.

Align the decal over the specified area and carefully press the small portion with the exposed sticky backing in place.

Slowly peel back the remaining paper and carefully smooth the remaining portion of the decal in place.

Small air pockets can be pierced with a pin and smoothed out using the piece of decal backing paper.

SIGN-OFF FORM

WIL-RICH 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 the PT 7722 Cultivator Bar must read and understand ALL Safety, Operation, and Maintenance information presented in this manual.

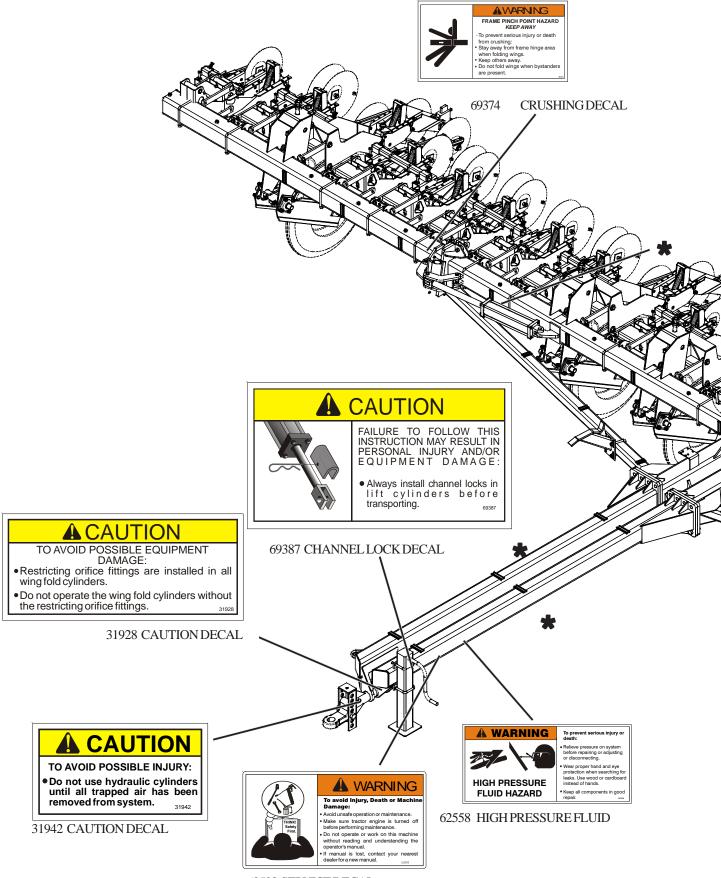
Do not operate or allow anyone else to operate this equipment until such information is reviewed. Annually review this information before the season startup.

Make periodic reviews of SAFETY and OPERA-TION 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 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

SAFETY DECAL LOCATIONS



62503 SERVICE DECAL

NON-SAFETY DECALS

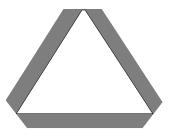




65342 WIL-RICH DECAL(3-5/8x23-7/8)

69561 PT 7722 DECAL

Location for decals are marked with \bigstar , decals placed on back of toolbar are cut and placed betweeen gangs.



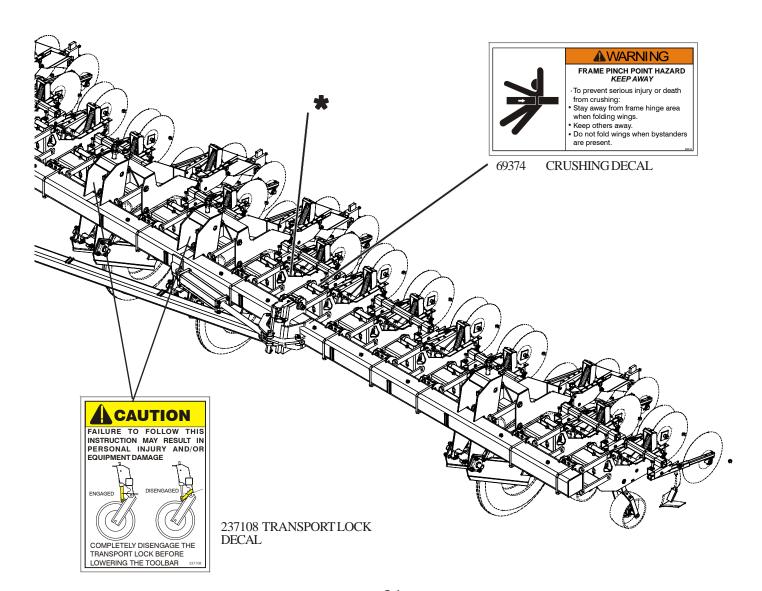




62557 GREASE FITTING DECAL (SEE LUBRICATION PAGE)



223165 CLEARANCE LIGHTPACKAGE (SEE PAGE 21 FOR ASSEMBLY)



TIRE PRESSURE

Tire pressure should be checked regularly and maintained as follows:

7.5x20 SL (12PLY) Tire Assy - 72 PSI

Note: MAXIMUM SPEED for 7.50x20 Single Rib Tire is 20 M.P.H.

TOOLBAR PREPARATION

For initial preparation of the cultivator, lubricate the toolbar and cultivator gang units as outlined in the lubrication section of this manual. Make sure all tires are properly inflated

.

TRACTOR PREPARATION

Consult your dealer for information on the minimum tractor horse power requirements and tractor capability. Tractor requirements will vary with cultivator options, tillage and terrain. Your tractor may require a hitch support to carry the weight of the toolbar. The front hitch weight at the drawbar is approximately 5500lbs.

CULTIVATOR ATTACHMENT TO TRACTOR

Adjust the tractor drawbar so it is 17" to 22"(Optimum Setting 22") above the ground. Make sure the drawbar is in a stationary position.

Raise or lower the toolbar hitch clevis to match the drawbar height of the tractor (see Leveling Procedure). Back the tractor to the toolbar and connect with a hitch pin. Lower toolbar onto drawbar with jack. Make sure the hitch pin is secured with a locking pin or cotter pin.

Clean off all hose ends to remove any dirt before connecting to the tractor. Connect the hydraulic hoses to the tractor port in sequence which is both familiar and comfortable to the operator.

Raise the jack to the storage position.

Using the hydraulics, lower the toolbar to the cultivating position and check the level of the toolbar front to back and side to side. If the hitch height is too low or too high, disconnect the toolbar and adjust the clevis up or down as necessary.

LEVELING THE TOOLBAR

For proper operation of the toolbar and cultivating units, it is important that the unit operate level.

Unless the tractor drawbar is adjustable for height, the fore and aft level adjustment must be maintained by the position of the hitch clevis. Holes in the hitch bracket allow the clevis to be raised or lowered. When installing clevis mounting bolts, tighten to proper torque settings (See Page 24).

With the toolbar lowered to operating depth and center 4x8 Tie Rod Cylinder extended, the gang H-arms should run at approximately 5° down, check to be sure the frame is level front to back and side to side. Recheck toolbar in the field.

Wil-Rich includes an adjustment eyebolt on top of each cylinder for height adjustment of each lift cylinder.

Note: The single rib tire will sink into the soil, depending on soil conditions a height adjustment may need to be made from field to field.

It is important for the toolbar to operate level laterally. Tire pressure must be maintained at pressures specified.

LEVELING

TOOL BAR Leveling Procedure

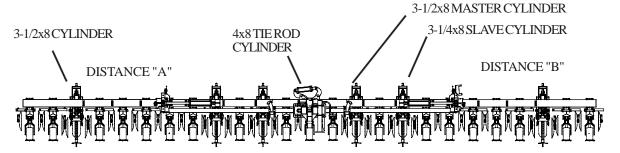
1. Set toolbar on hard level surface at its lowest position. Check tire pressure (72lbs).

Center 4x8 Tie Rod Cylinder <u>must be extended</u> before leveling.

Note: If the cultivator is being setup on a shop floor, the toolbar will set 2" to 4" higher than in the field, depending on soil conditions.

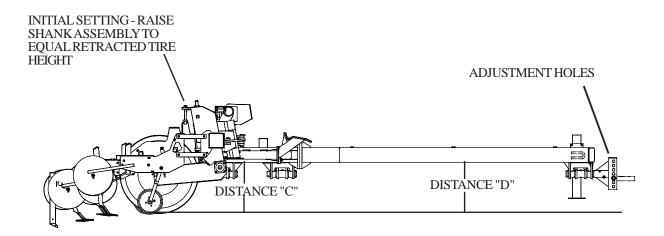
- 2. Set distance A & B to be the same height. if different:
 - A.) Check tire pressure.
 - B.) Check cylinder adjust rod setting. Make minor adjustments to raise or lower (see lift station page 14-15) the frame.
 - C.) Initial setting Raise lift station shank to same height as retracted lift station tire. See illustration below.

Note: when 3-1/2x8 Master Cylinders stop, slave bypass cylinders will stop.



Note: Shank assemblies used in Lift Stations should run approximately 2" lower than standard shank assemblies, due to soil compression by the single rib tire.

3. Set distance C&D to the same height. Check distance C & D, if distance is different adjust hitch clevis by moving up or down in the adjustment holes at front of hitch until level.



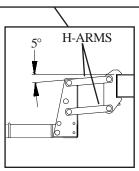
Note: With 6" to 8" of travel in the cultivator gang units, all the distances above can be approximate.

GANG ADJUSTMENTS

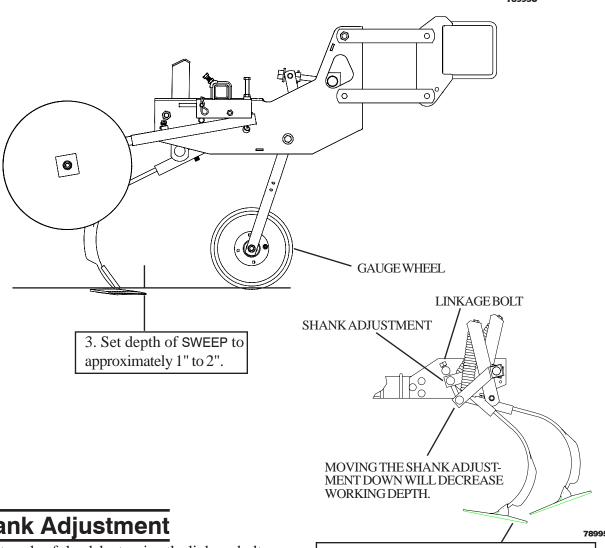
Note: Gauge wheels carry a restricted portion of the machines weight. The gauge wheels stabilize the Row Crop from side to side and maintain a working depth for the individual gangs.

1. With tractor setting on a level surface, lower cultivator bar to it's working position.

2. Optimal toolbar height is reached; when H-Arms are 5° downward in working position.



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Shank Adjustment

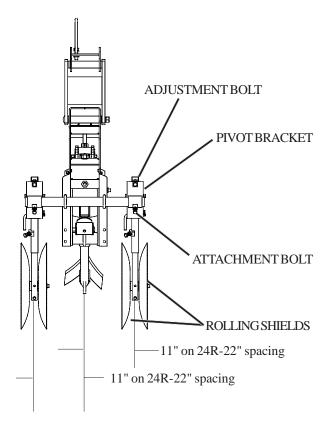
Adjust angle of shank by turning the linkage bolt. Turning the linkage bolt down will give the shank a more aggressive angle of attack, but will also make the shank run shallower. Adjust all shanks evenly to prevent tracking problems.

NOTE: DO NOT Adjust shank to a point where the shovel would point up. This will cause cultivator to skid on surface and possibly damage cultivator.

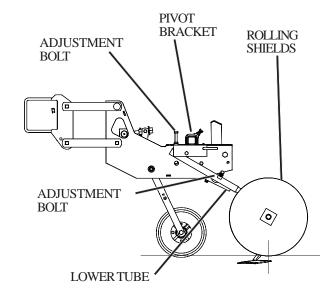
Rolling Shields

The rolling shield depth should be set to where the shields just touch the ground.

The front to back measurement should be set to where the dirt is not being thrown onto the plant. Adjust the lower tube length for correct adjustment.



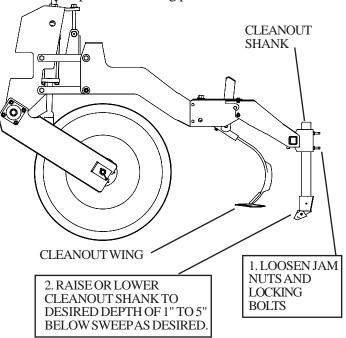
Note: The rolling shields can be spaced further apart to accommodate plant growth. Spacers are SET on the outside of shields from factory



Row Guide Cleanout

The row guide cleanouts sole use is to reopen the furrow for next time you cultivate.

Place the clean out points in line with the guide wheels. Adjust the depth to where the top of cleanout wing is just above ground surface. Adjust row guides evenly to prevent tracking problems.



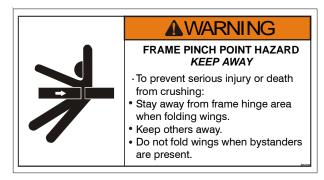
3. RETIGHTEN HARDWARE

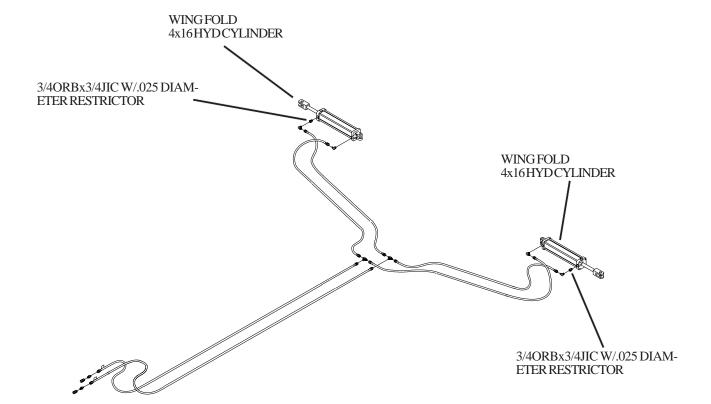
HYDRAULICS

WING FOLD CIRCUITRY

Wil-Rich toolbars use hydraulic cylinders to fold the wings for road transport.

Wing fold cylinders have in a .025 diameter restrictor in the rod end cylinder port. This allows the wings to fold at a slow rate and prevents the wing from swinging too fast.



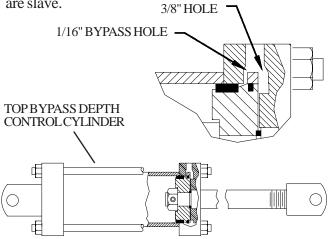


LIFT CONTROL CIRCUITRY

The cultivator lift system consists of 6 cylinders, 4 on the center frame and 1 each wing.

The lift cylinders on the main frame are hooked in series. Each cylinder is a top bypass cylinder and when fully extended will pass oil by the piston into the next cylinder, charging the system.

The center cylinders supply oil to the outside cylinders on the main frame. For this reason they are referred to as the master and the outside cylinders are slave.

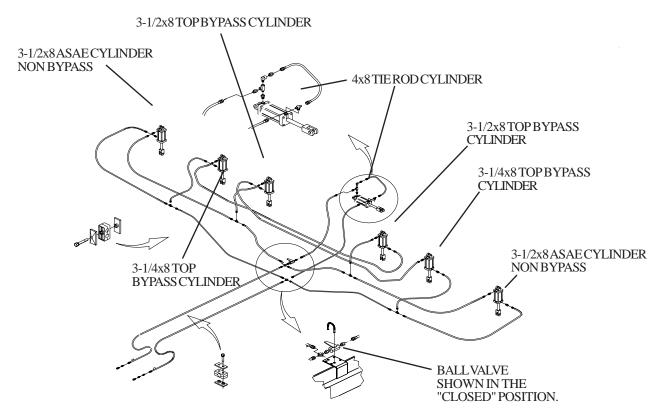


Note: To more equally distribute the center frame load. The inside & outside cylinders from opposite sides of the center frame are hooked in series.

The wing cylinder is hooked in parallel with the main frame and is NOT a bypass cylinder. The wing lift cylinders will extend & retract independent from the center frame.

This bypass condition will exist when the implement is raised to maximum ground clearance. At this time oil will pass through the 1/16" dia bypass hole and go on to the next cylinder.

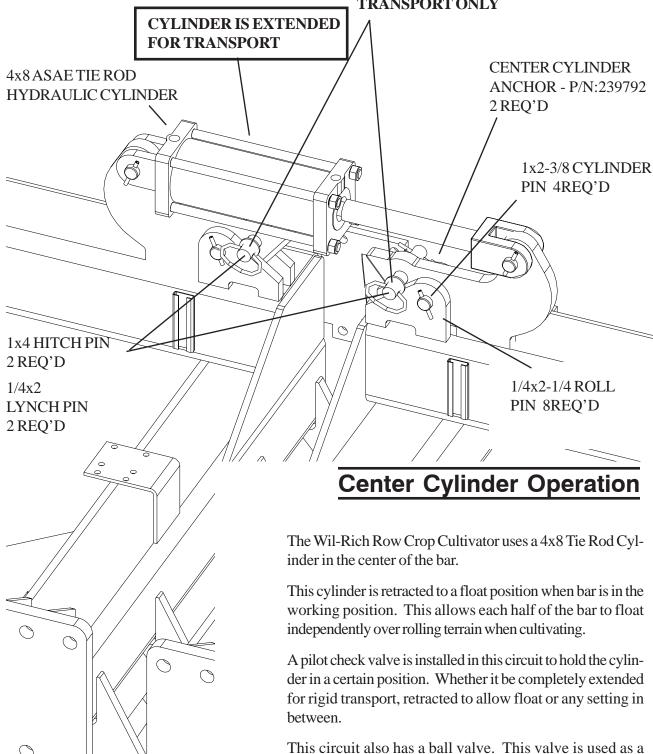
Note: This system requires periodic synchronizing. The tractor valve is held in the raised position until the entire implement is raised and any air that may be in the lines has been expelled.



Note: Cultivator bar operation requires that the center cylinder is extended before the lift cylinders are extended to raise the implement.

Center Cylinder Operation

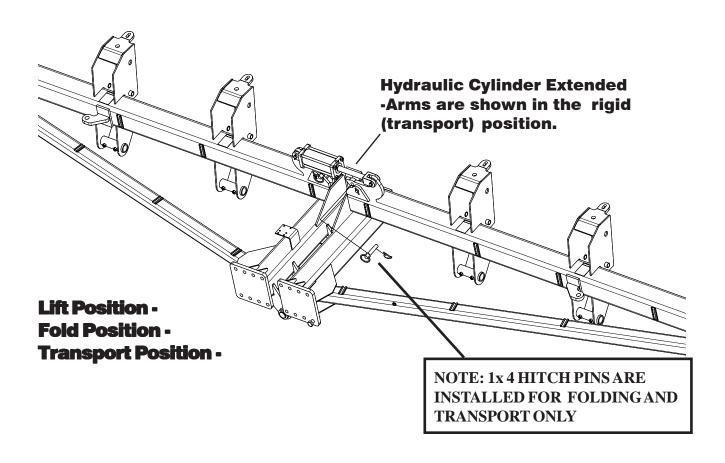
NOTE: 1x 4 HITCH PINS ARE INSTALLED FOR FOLDING AND TRANSPORT ONLY

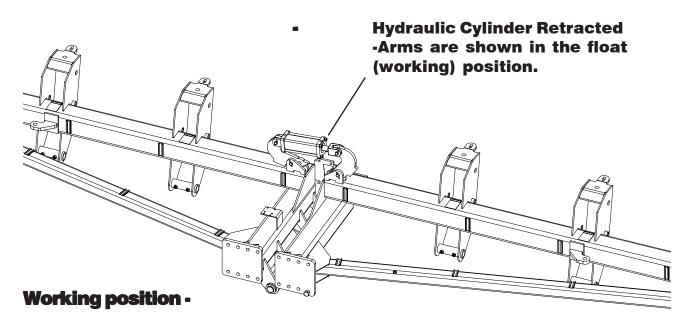


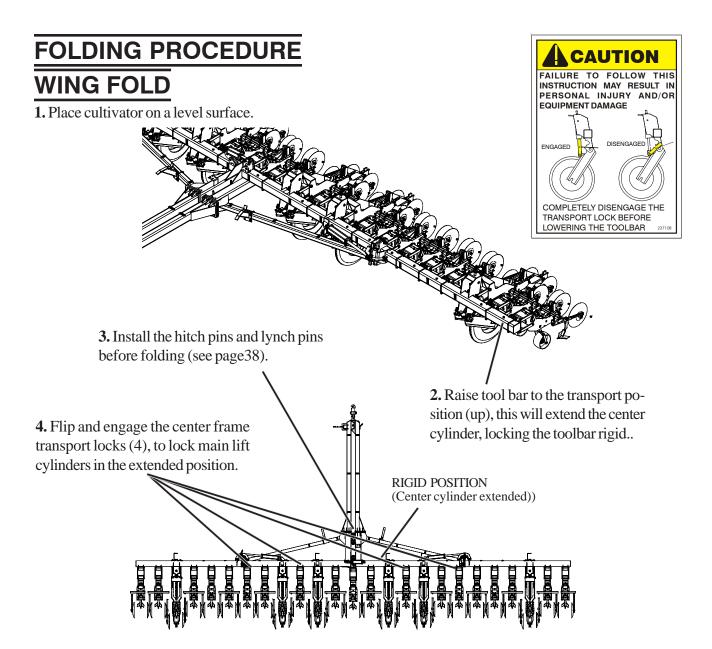
positive means to lock-in a particular cylinder length. Clos-

ing this valve makes further adjustment impossible.

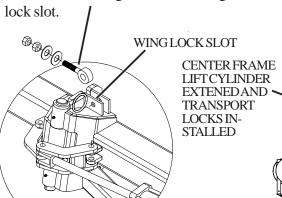
Center Cylinder Operation







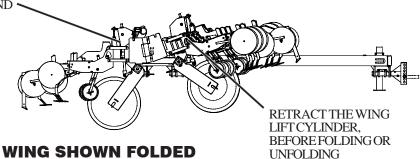
5. Loosen nut on wing lock eyebolt and rotate 180 degrees out of wing lock slot.



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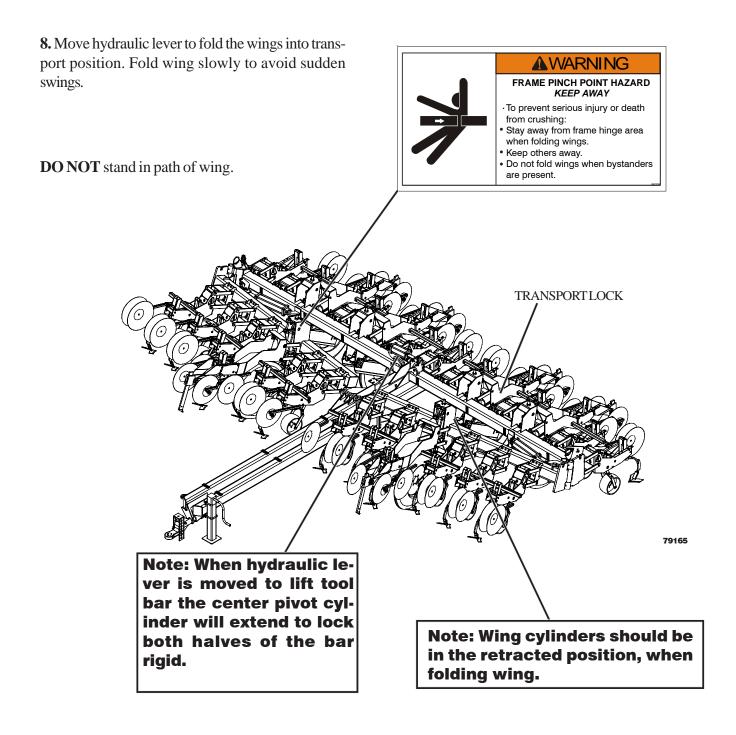
6. Lower the bar slightly, this will tighten the transport locks against the main lift cylinders.

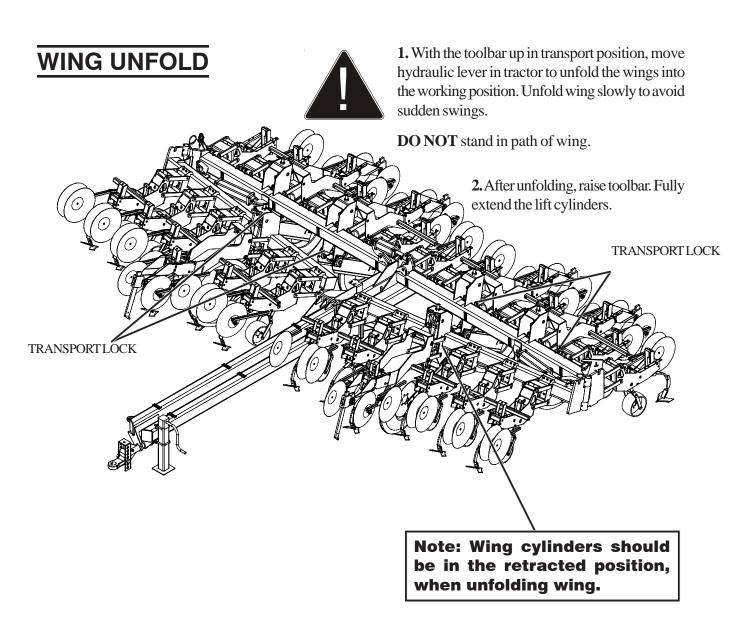
7. Continue to retract the lift cylinders. With the center frame locked up, the wing lift cylinders will retract. This will raise the wing tires off the ground, permitting folding without dragging the tire in the ground.

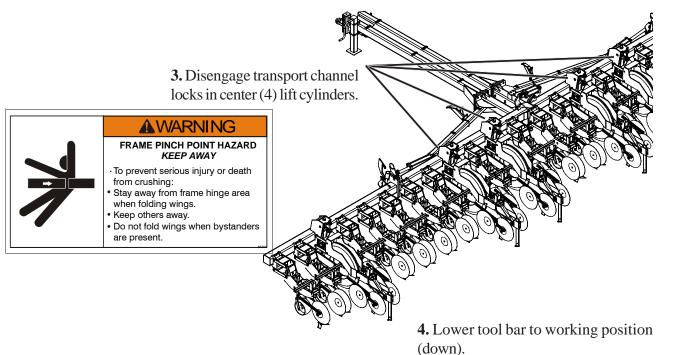


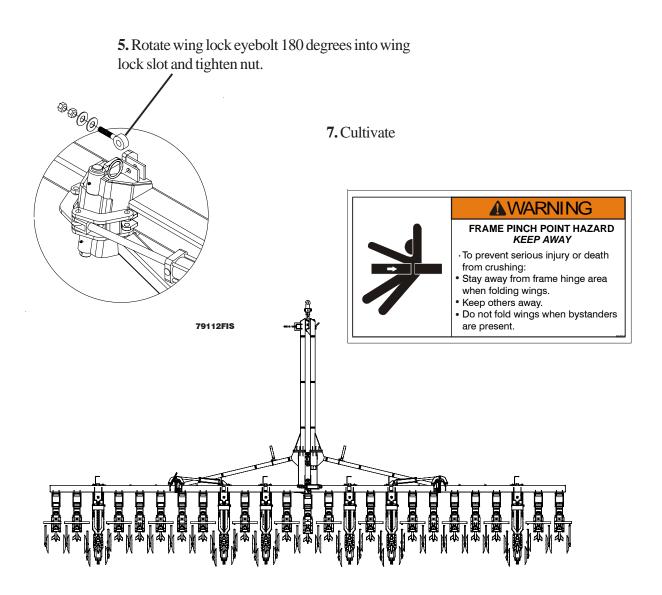
8. The wings will droop some when the tire is raised from the ground. The center cylinder can be retracted slightly to level out the toolbar. Now, close the ball valve to lock this setting(see page 37).

Note: Check Wing Rest heights after bolting Row Crop Gangs to Bar. Adjustments may be required.









LUBRICATION

Note: Lubricate all lift stations as shown.

24 HRS

Grease - Use an SAE multipurpose high temperature grease with extreme pressure (EP) performance. Also acceptable is an SAE multipurpose lithium based grease.

Use a hand held grease gun for all greasing.

Wipe grease fitting with a clean cloth before greasing, to avoid injecting dirt and grit.

Replace and repair broken fittings immediately.

If fittings do not take grease, remove and clean thoroughly. Also clean lubricant passageway. Replace fitting if necessary.

Note: Do not over grease hubs with seals.

