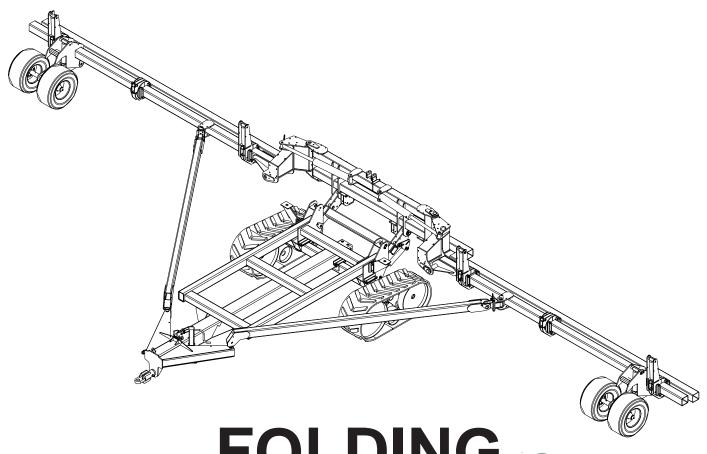


ASSEMBLY/OPERATOR'S MANUAL



FOLDING Wahpe TOOLBAR Fax (Bar)

WIL-RICH

PO Box 1030 Wahpeton, ND 58074 PH (701) 642-2621 Fax (701) 642-3372 www.wil-rich.com

WIL-RICH, LLC

WARRANTY

Wil-Rich's products are warranted to the original non-commercial purchaser to be free from defects in material and workmanship for a minimum period of twelve (12) months from the original date of purchase.

Additional Field Cultivator Warranty: Wil-Rich warrants to the original purchaser of each new Wil-Rich Field Cultivator unit (Excel and QuadX), and Disk Field Cultivators that the product be free from defects in material and workmanship for the period of three (3) years on the main frames and shank assemblies. All other components are covered by the twelve (12) month warranty period.

<u>Commercial Use:</u> Warranty for commercial, rental or custom use of any Wil-Rich product is limited to 90 days, parts and labor.

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. 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 hydraulic hoses, hydraulic 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.

This warranty shall not be interpreted to render Wil-Rich liable for injury or damages of any kind or nature to person or property. This warranty does not include claims for, or extend to the loss or damage of crops, loss because of delay in seeding/planting or harvesting, or any expense or loss incurred for labor, substitute machinery, rental, and transportation expense or for any other reason.

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 thirty (30) 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.

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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

TO THE OWNER

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.

SERIAL NUMBER

Every implement has a serial number located on the forward left corner of the main frame. These serial numbers are consecutively assigned to the implements as they are manufactured. To aid in part ordering, we reference the serial number at the point the change occurred to provide an accurate means of determining the proper parts. See page 12 for location.



When in need of parts, always specifiy the model and serial number. Write this number in the space provided.

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.



THIS SYMBOL USED TO CALL YOUR ATTENTION TO INSTRUCTIONS CONCERNING YOUR PERSONAL SAFETY. BE SURE TO OBSERVE AND FOLLOW THESE INSTRUCTIONS

PREPARATION

Before operating the **WIL-RICH** Folding toolbar, a careful inspection must become routine. A check must be made to ensure that all hardware and fasteners are securely tightened and moving parts properly lubricated.

Remove all wires and/or banding material. The parts have been conveniently arranged on the pallet for ease of assembly.

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

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

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

FASTENERS

Loosely install all bolts connecting mating parts before final tightening.

GENERAL INFORMATION

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.

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.

TIRE INFLATION

The use of proper air pressure is the most important factor in satisfactory performance and maintenance of implement tire. Underinflation will damage the cord body of the tire and cause a series of diagonal breaks in the fabric sidewall area.

If the tire buckles or wrinkles, the air pressure must be increased to the point where the sidwall remains smooth while operating.

Check the air pressure every two or three weeks and do not allow the pressure to drop to a point where buckling or wrinkling of the tire may be possible.

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	15/16	1-1/8	1-5/16	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

Note: Do not inflate tires beyond the specified tire pressure.

WHEEL BOLTS

It is recommended that all wheel bolts be checked for tightness before using and again after one day of use. Check periodically to be sure the wheel bolts are tight.

LUBRICATION

Make sure the Folding Toolbar is properly lubricated. See page 14 & 15

HYDRAULICS

Check wing lift and depth control cylinders for proper alignment and operation. On any machine, check that the hydraulic system has been properly charged and purged.

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.

Horsepower requirements will vary depending on the attachment that is bolted to the **WIL-RICH** Folding Toolbar. Two remote cylinder outlets and controls are required.

WHEELS AND TIRES

Dual tractor rear wheels are recommended for use with the Folding Toolbar. See your tractors operator's manual for tire inflation and instructions for wheel ballast where required.

METERING VALVES

The metering valve may be set to provide varying amounts of hydraulic oil flow to the cylinders (see your tractor operator's manual.)

It is recommended the wing fold cylinders run as slow as possible to prevent damage to the implement, persons and property. Turn wing fold hydraulics metering values to slow position.

FRONT BALLAST

Tractor front end stability is necessary for safe and efficient operation. Therefore, it is important that the proper amount of weight be installed on the front of the tractor as recommended in your tractor operator's manual.



Note: Ballast recommendations provide for adequate transport stability at recommended speeds. Additional front ballast may be required for satisfactory field operation due to sudden or extreme forces on the Folding Toolbar. These forces may occur when removing the Folding Toolbar from the ground and turning at rows end, or during field transport over very rough ground.

TRACTOR REQUIREMENTS

TRANSPORTING

A SMV (Slow Moving Vehicle) emblem **must** be used at all times while traveling on public roads.

The wings on the Folding Toolbar must be tilted up 90 ° and folded forward, next wings must be lowered on the transport pads and the wing wheels pulled up off the ground when traveling on public roads. Never depend on your tractor's hydraulic system to carry the weight while transporting.



Note: Use extreme caution when working around overhead power transmission lines.

Reduce speed when cornering and when traveling over rough and/or uneven ground. Drive at a reasonable speed to maintain complete control of the machine at all times.

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

BEARING ASSEMBLIES

IMPORTANT: The spindle nuts on the wheel assemblies are preset at the factory.

Road transport and field working will seat the bearings and will require additional adjustment. After 20 hours of machine operation remove the grease cap and check the bearing tightness.

Remove the cotter pin and rotate the tire while tightening the spindle nut. Tighten until the drag on the tire stops the rotation. Locate the cotter pin hole in the spindle and loosen the spindle nut just enough to allow insertion of the cotter pin. Replace cotter pin and grease cap.

SAFETY

INFORMATION

YOU are responsible for SAFE operation and maintenance of your Wil-Rich Folding Toolbar. YOU must ensure that anyone who is going to operate, maintain or work around the Folding Toolbar 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.

Folding Toolbar owners must give operating instructions to operators and employees before allowing them to operate the Folding Toolbar, 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 BEFORE OPERATING

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

Review safety related items with all operators annually.

Use extreme care when making adjustments.

When working under or around the machine, always lower the Folding Toolbar to the ground.

After sevicing, install and properly secure all shields and guards before operating. Remove all tools, parts, and sevice equipment from the machine.

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, and head. 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. Do not attempt to remove any obstruction while machine is in motion.

HYDRAULIC 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.

Before applying pressure to the system, make sure all components are tight and that lines, hoses and couplings are not damaged. 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 cardboard 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 develop from hydraulic fluid piercing the skin surface.

STORAGE SAFETY

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.

WHEN NOT USING THE FOLDING TOOLBAR ALWAYS INSERT SAFETY PINS AS SHOWN ON PAGE 56.

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.

TRANSPORT SAFETY

Read and understand ALL the information in the Operator's Manual regarding procedures and SAFETY when moving the Folding Toolbar 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. Reduce speed and 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 (see safety chain information.)

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.

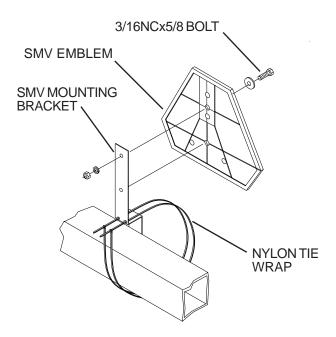
DETACH TRACTOR IN THE TRANSPORT POSITION ONLY

SMV

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

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

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



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

DO NOT TRANSPORT WITH TANKS FILLED - TANKS MUST BE EMPTY DURING TRANPORT

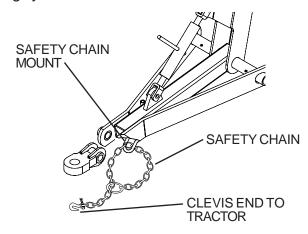
BEFORE ROAD TRANSPORT INSERT SAFETY PINS AS SHOWN ON PAGE 56

MAXIMUM TRANSPORT SPEED 15MPH

SAFETY DECALS

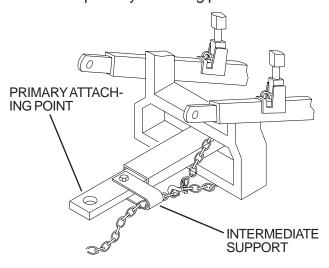
SAFETY CHAINS

The purpose of the safety chain is to provide an auxiliary attaching system to retain the connection between towing and towed machine in the event of separation of the primary attaching system.



The safety chain should be hooked long enough to permit full turns. Unnecessary slack should be taken up.

The intermediate support is to be used if there is more than 6" of unsupported chain on either side of the primary attaching point.



The intermediate support must not be mounted more than 6" from the primary attaching point (see illustration above.)

Safety decals appear at various locations on your machine. These decals are provided for your safety, your family's safety and your employee's safety. Replace any decal that becomes worn, damaged, painted over or difficult to read.

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.

How to install Safety Decals:

Be sure that the installation area is clean and dry.

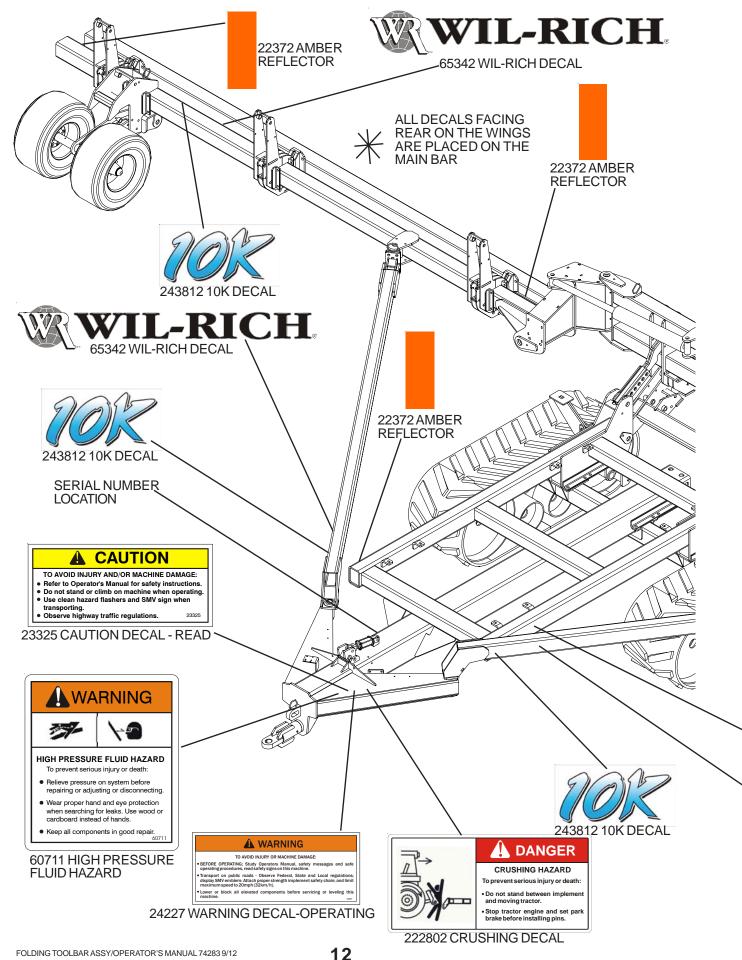
Decide on the exact position before you remove the backing paper.

Remove the smallest portion of the split backing paper.

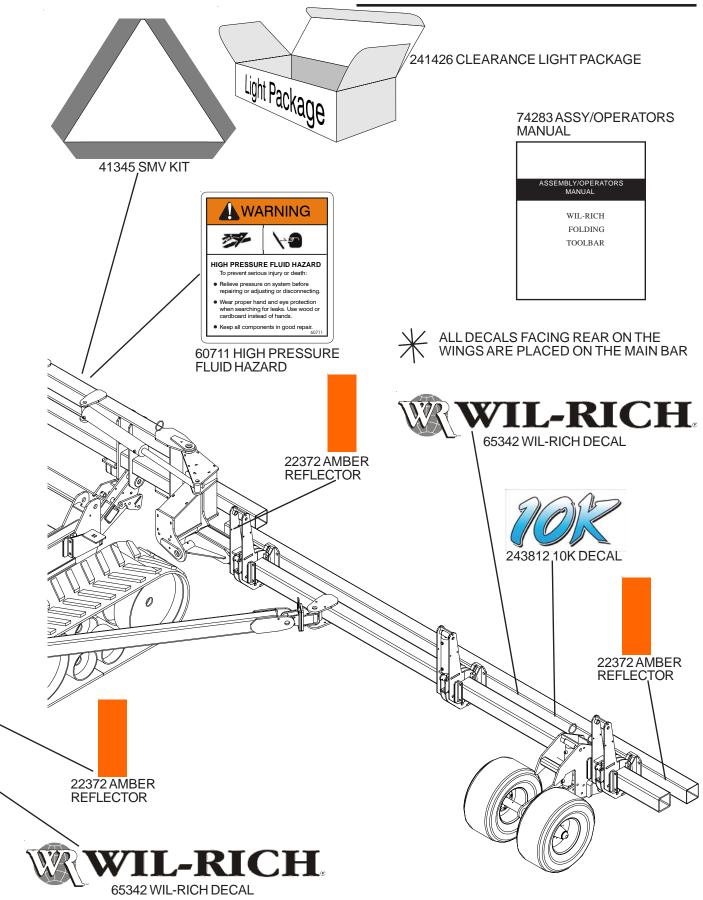
Align the decal over the specified area and carefully press the small portion with the exposed sticky backing in place.

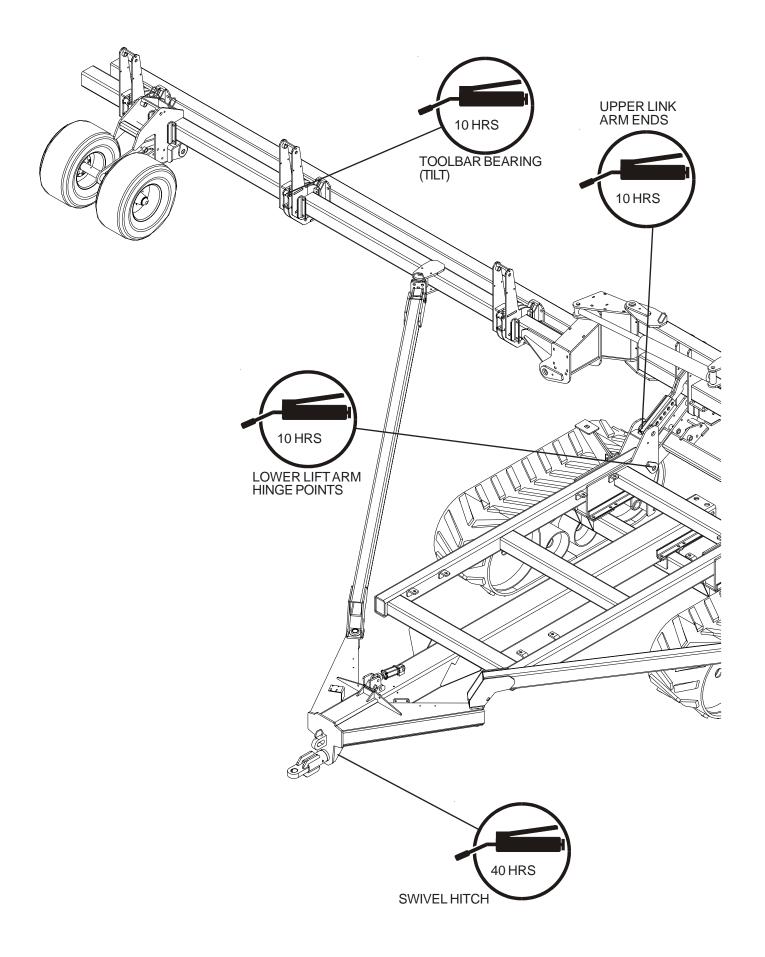
Slowly peel back the remaining paper and carefully smooth the remaining portion of the decal in place.

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



SAFETY DECAL PLACEMENT

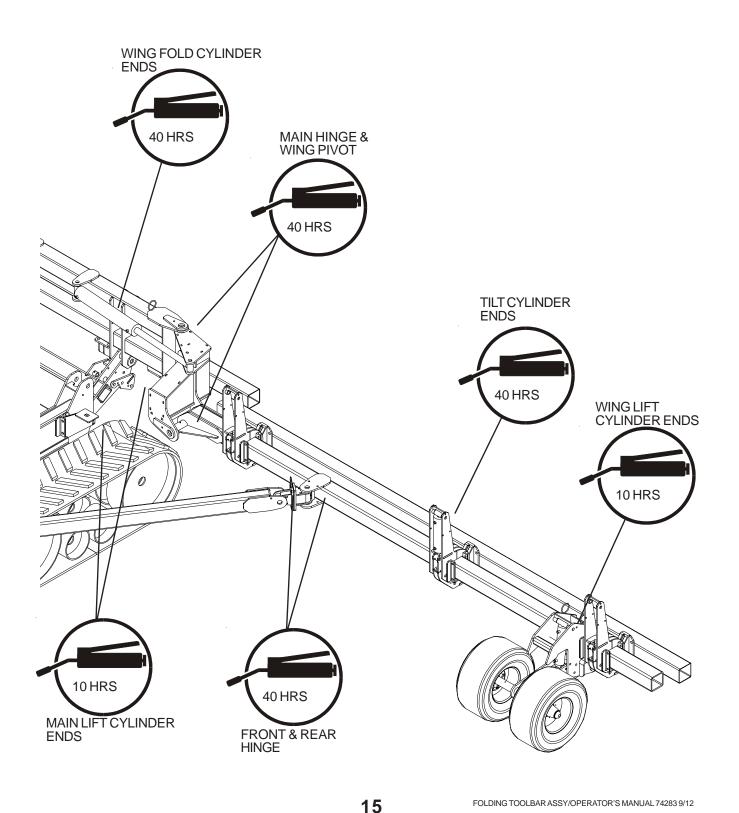




LUBRICATION

LUBRICATION

Make sure the 10K FOLDING TOOLBAR is properly lubricated. It is recommended to use Wil-Rich 460ep Tillage Lubricant in your 10K FOLDING TOOLBAR. It is specifically designed for the loads and condidtions encountered in heavy tilage.



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 Folding Toolbar 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.

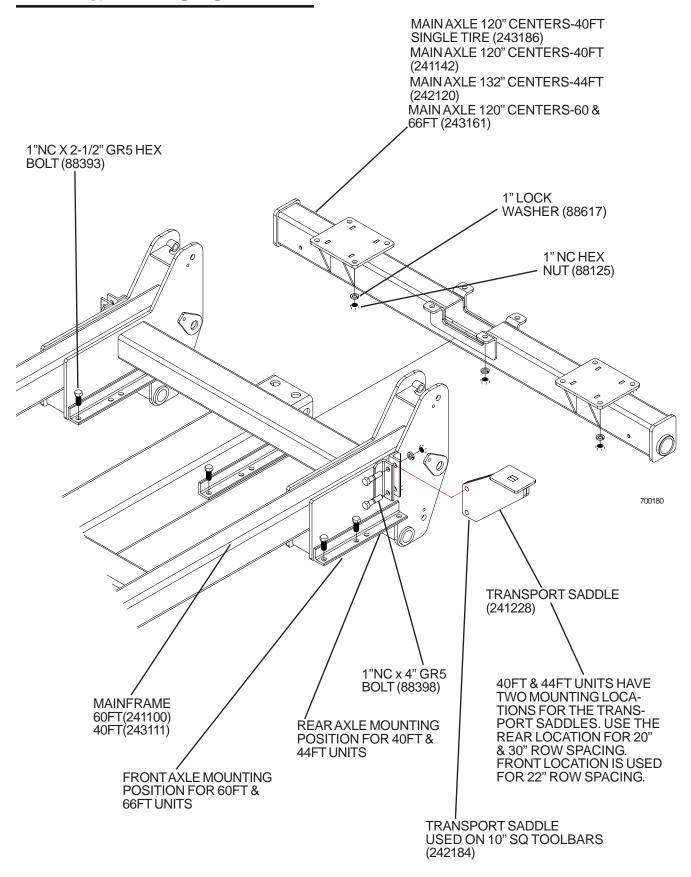
A sign-off sheet is provided for all personnel who will be working with equipment have read and understood the information in the operators manual and have been instructed in the operation of the equipment.

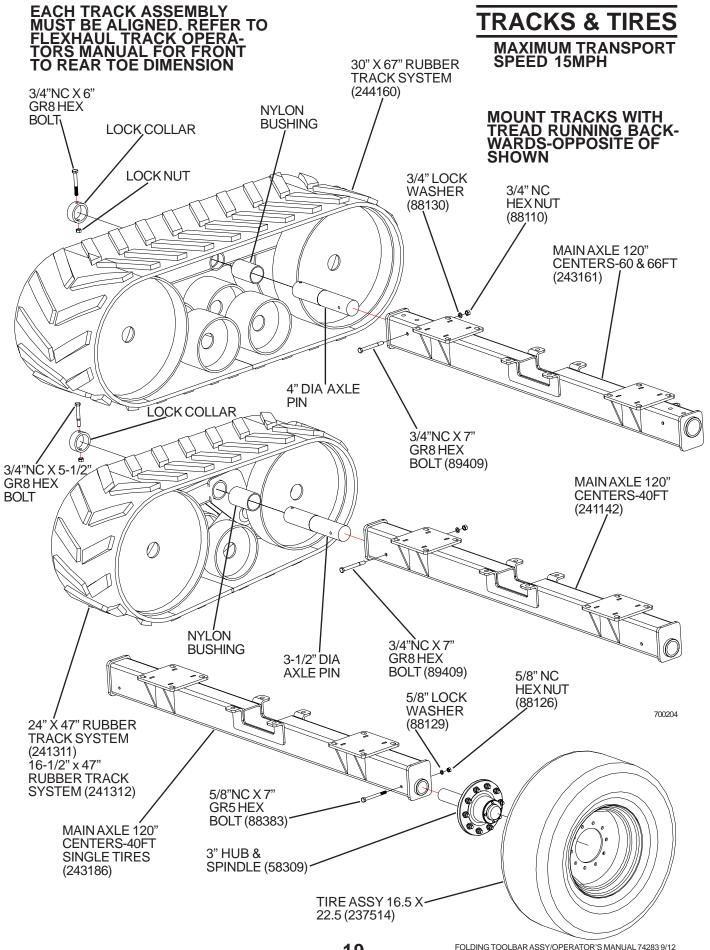
DATE	EMPLOYEE'S SIGNATURE	EMPLOYER'S SIGNATURE

ASSEMBLY SEQUENCE

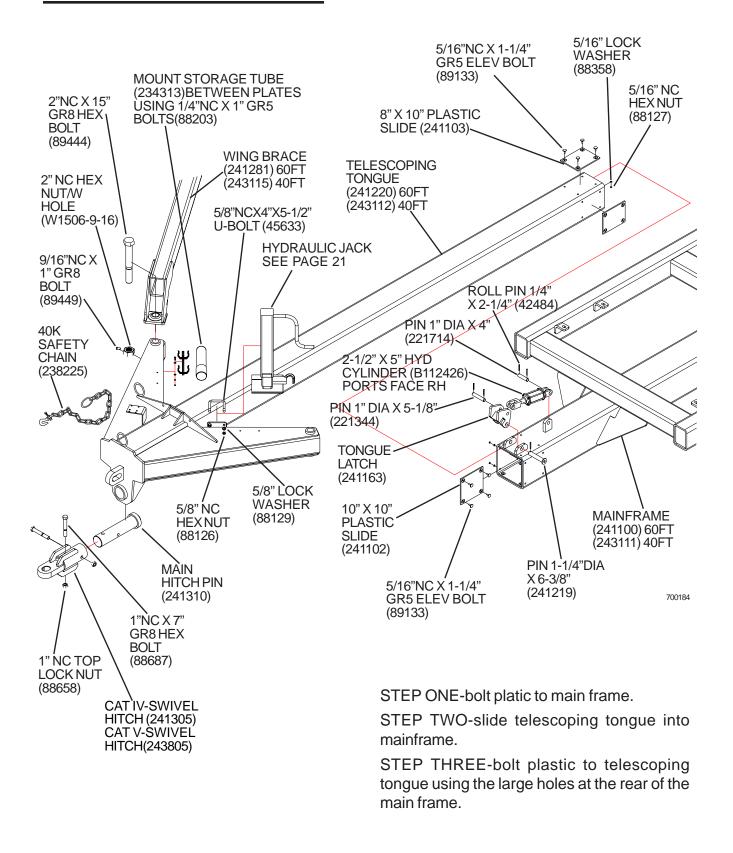
- 1.) MAINFRAME & AXLE
- 2.) LH & RH TRACK ASSEMBLIES INTO MAIN AXLE (TREAD RUNS BACKWARDS)
- 3.) SLIDE TONGUE INTO MAINFRAME
- 4.) ASSEMBLE FRONT END COMPONENTS
 - A.) HYD JACK
 - **B.) TONGUE LATCH**
 - C.) SWIVEL HITCH
 - D.) PARTS BOOK TUBE
 - **E.) SAFETY CHAIN**
- 5.) LOWER LIFT ARM
- 6.) MAIN LIFT CYLINDERS & FLOATING LINK (CENTER SECTION)
- 7.) CENTER SECTION & TOP LINK ARMS
- 8.) MAIN HINGES & FOLD CYLINDERS
- 9.) LH & RH WING TUBES
- 10.) TOWERS & BEARING ASSEMBLIES (TILTING MECHANISM)
- 11.) WING WHEEL ASSEMBLIES (TREAD RUNS BACKWARDS)
- 12.) BRACE ARMS
- 13.) HYDRAULIC HOSES
- 14.) LIGHTS, SMV & DECALS

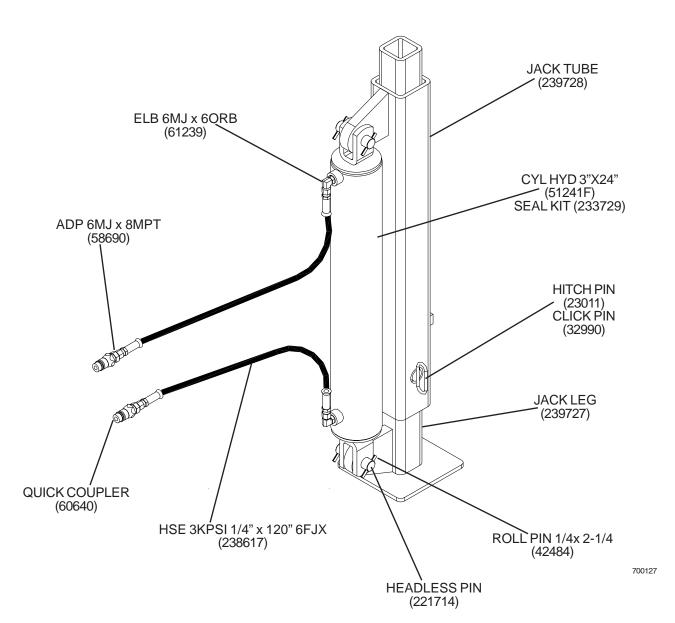
AXLE & TRANSPORT PAD





TELESCOPING TONGUE

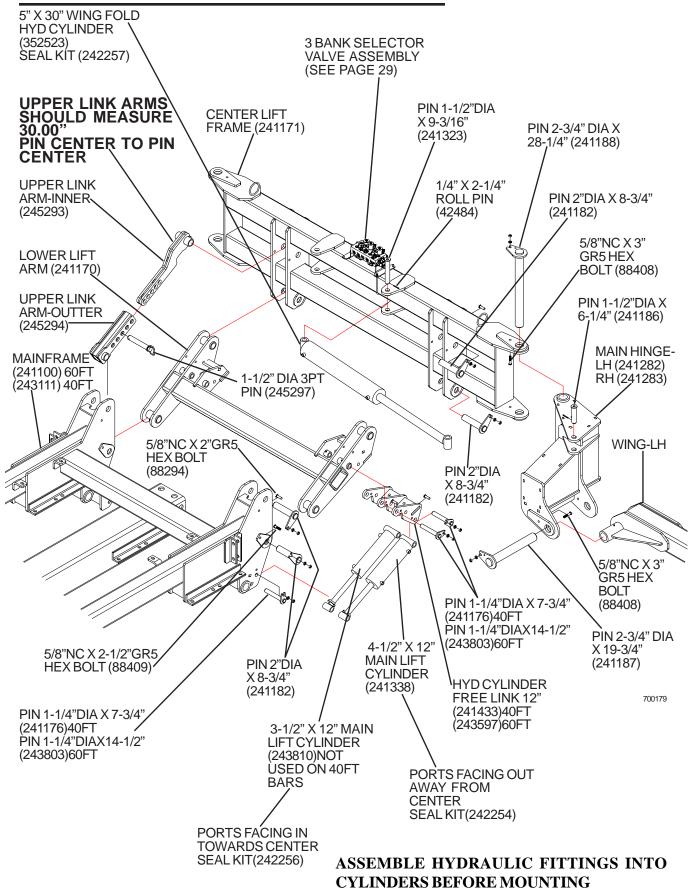




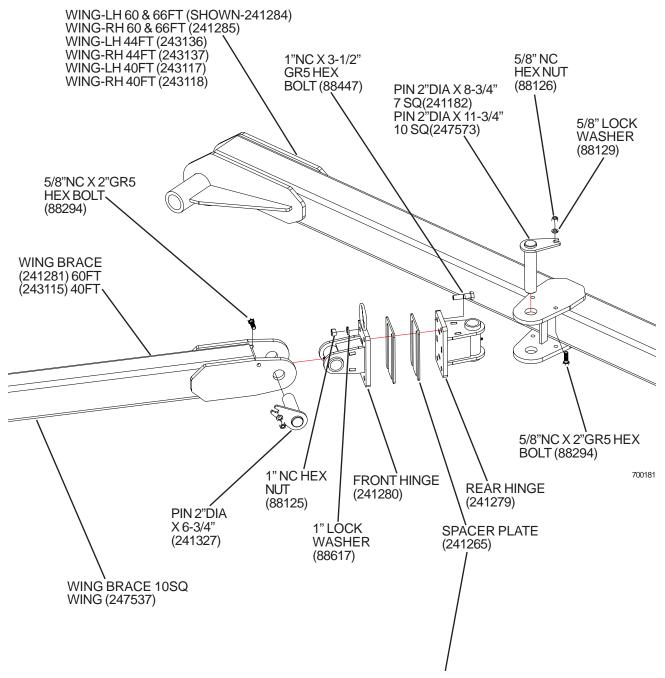
WARNING

JACK MUST BE PINNED IN THE UPPER OR LOWER POSITION AT ALL TIMES. IT SHOULD ONLY BE UNPINNED WHEN USING THE JACK FOR ATTACHING TO A TRACTOR OR SERIOUS INJURY OR DEATH MAY RESULT.

CENTER LIFT FRAME & MAIN HINGE

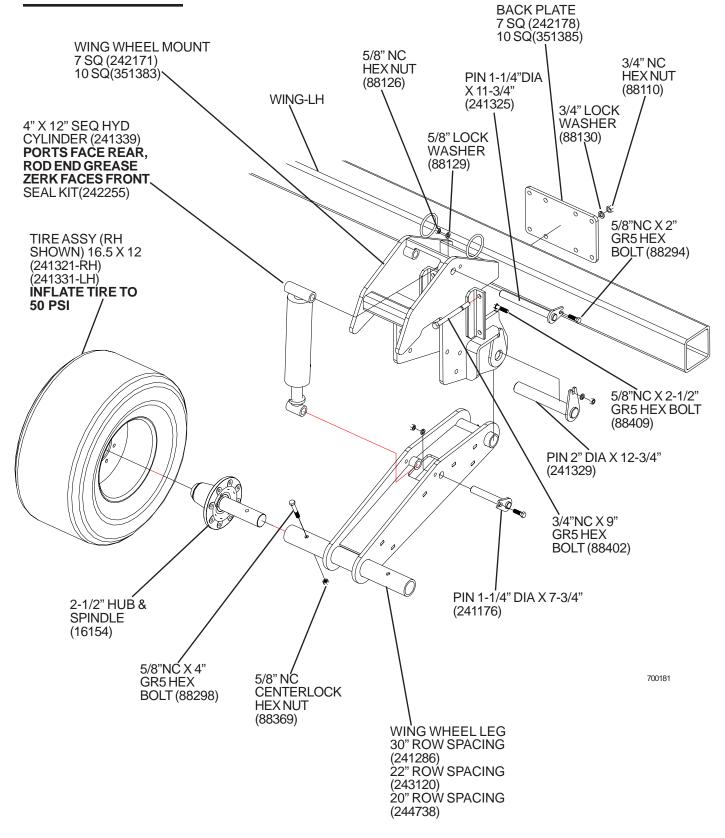


BRACE ARM HINGE

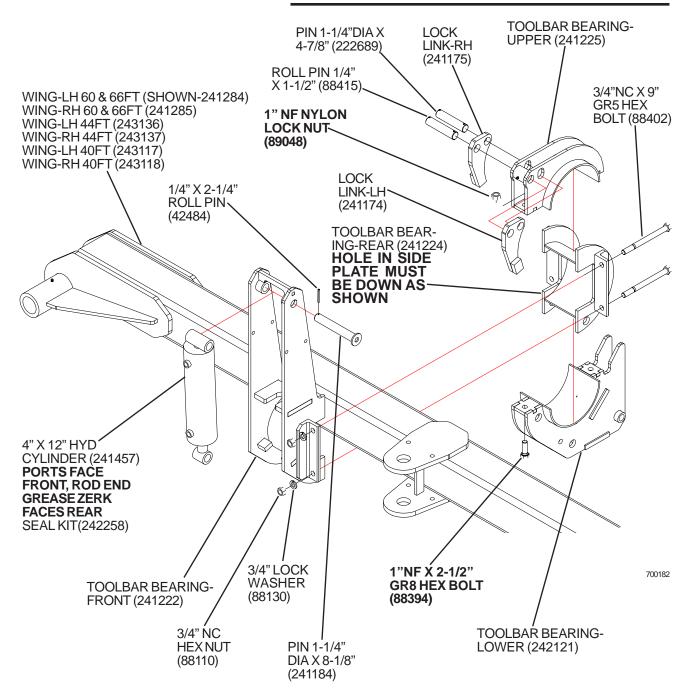


Spacer plates are used to straighten wings from front to back (parallel with center section.)

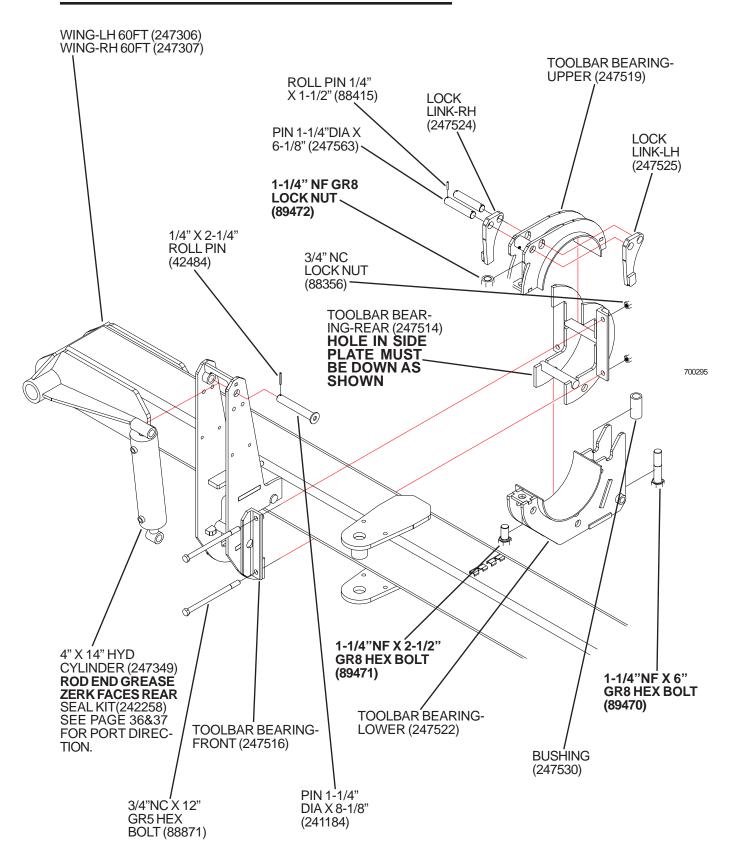
WING WHEEL



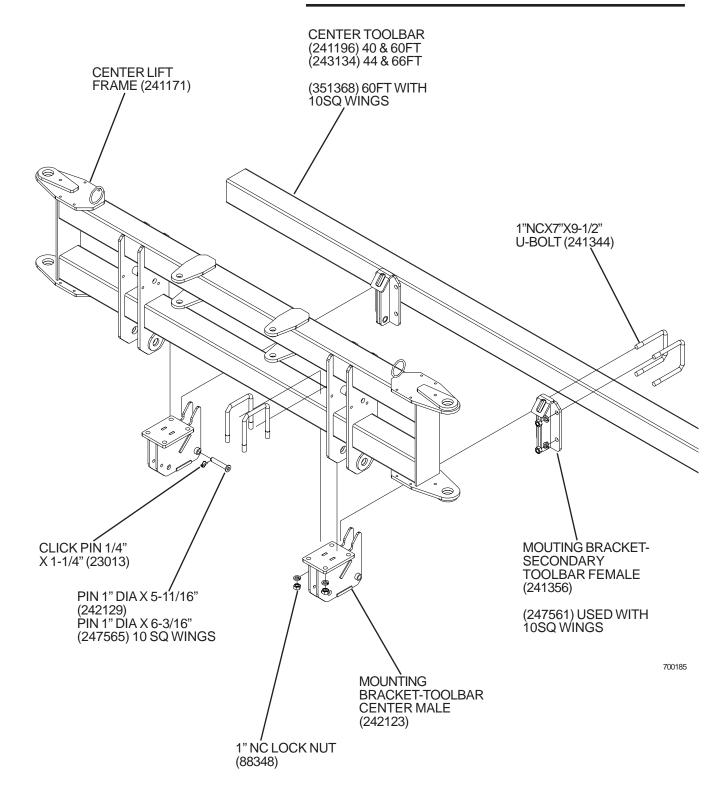
BEARING W/TILT CYLINDER 7SQ



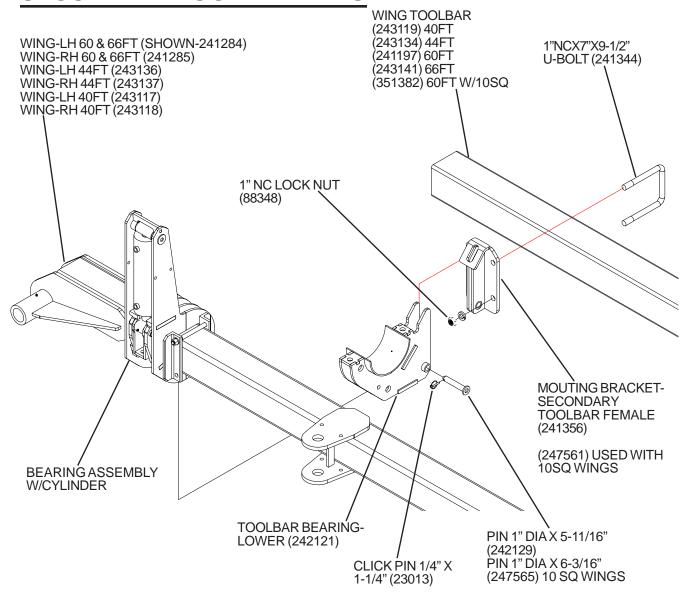
BEARING W/TILT CYLINDER 10SQ



SECONDARY TOOLBAR-CENTER

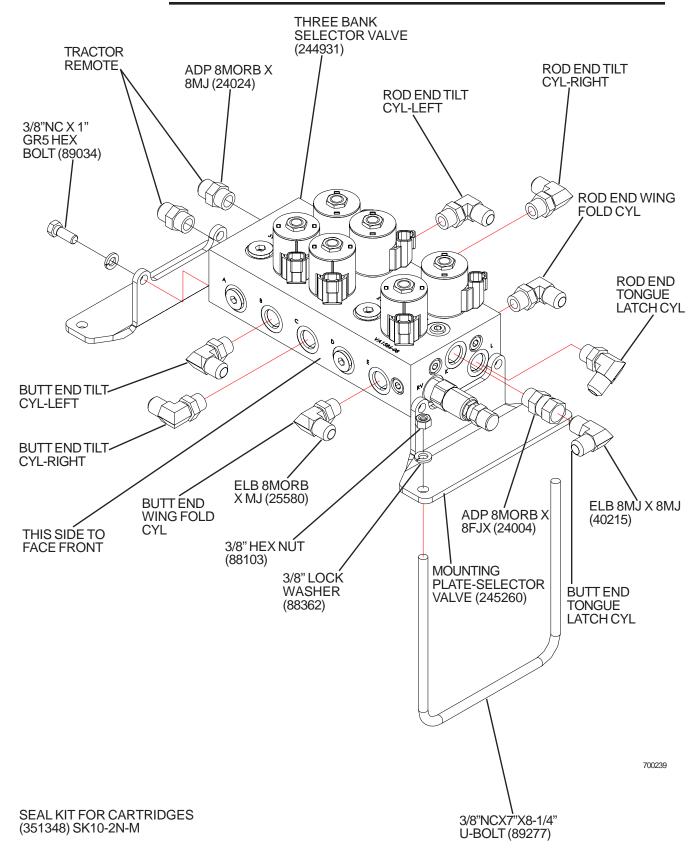


SECONDARY TOOLBAR-WING

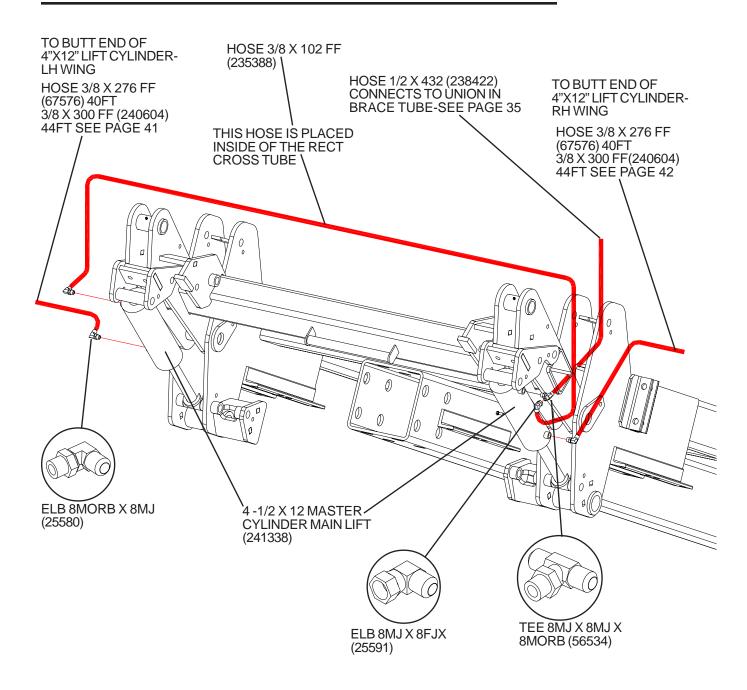


700183

THREE BANK SELECTOR VALVE 40 & 60FT



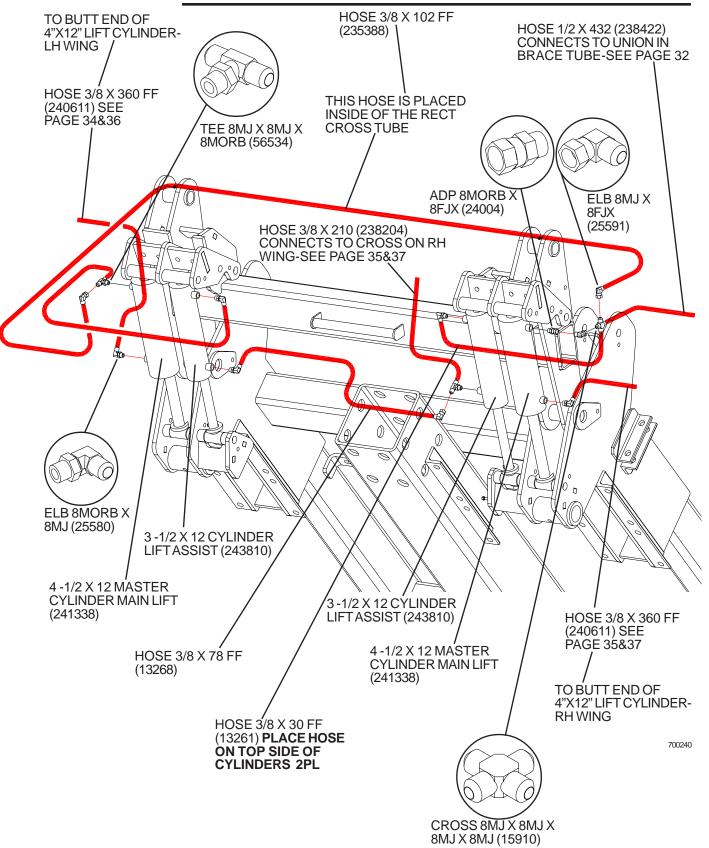
HYDRAULICS-40 & 44 FT CENTER MAIN LIFT



700198

TURN HYDRAULIC FITTINGS INTO CYL-INDERS BEFORE MOUNTING

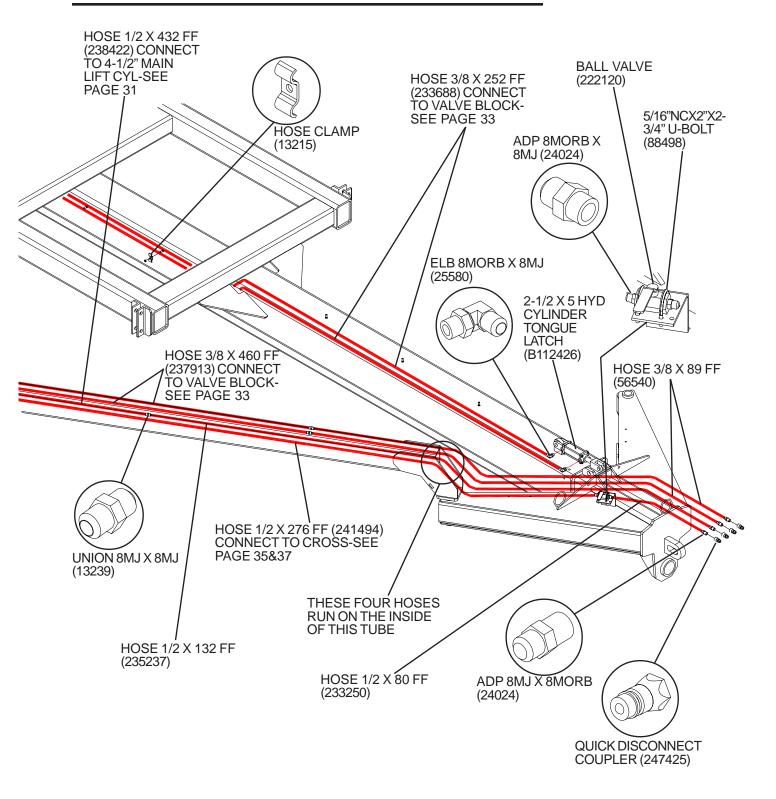
HYDRAULICS-60 & 66FT CENTER MAIN LIFT



TURN HYDRAULIC FITTINGS INTO CYL-INDERS BEFORE MOUNTING

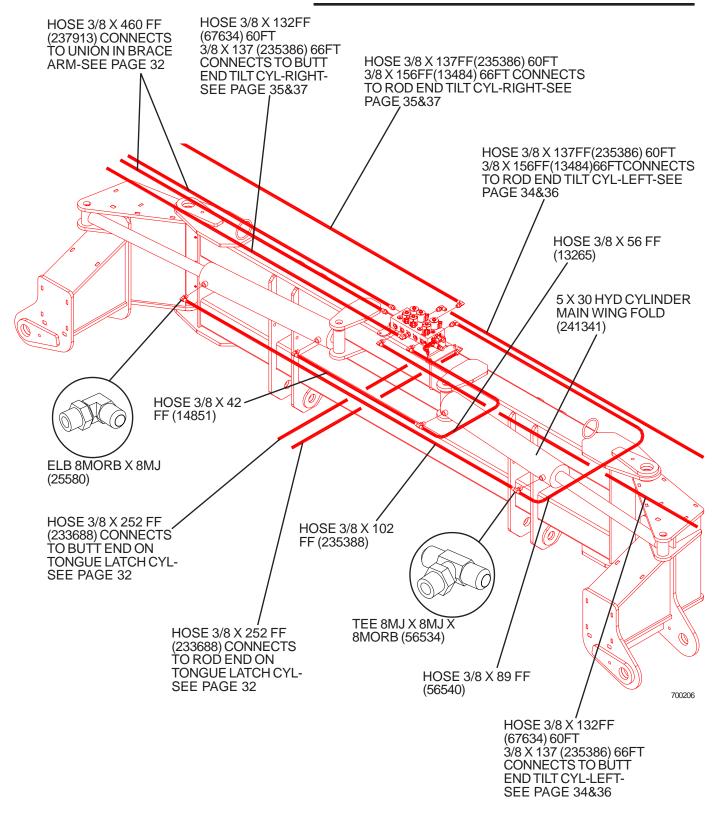
31

HYDRAULICS-60 & 66FT TONGUE LATCH

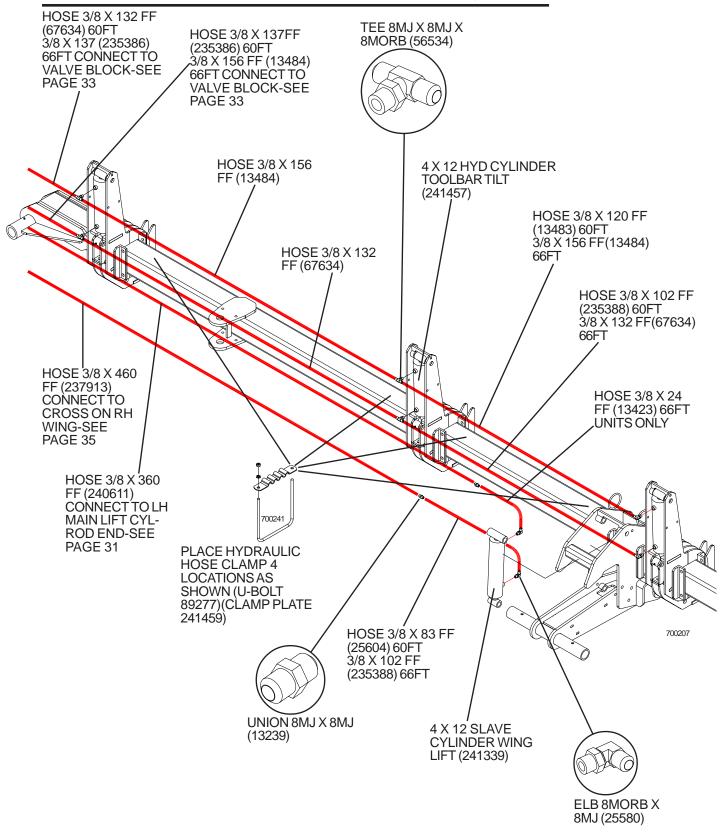


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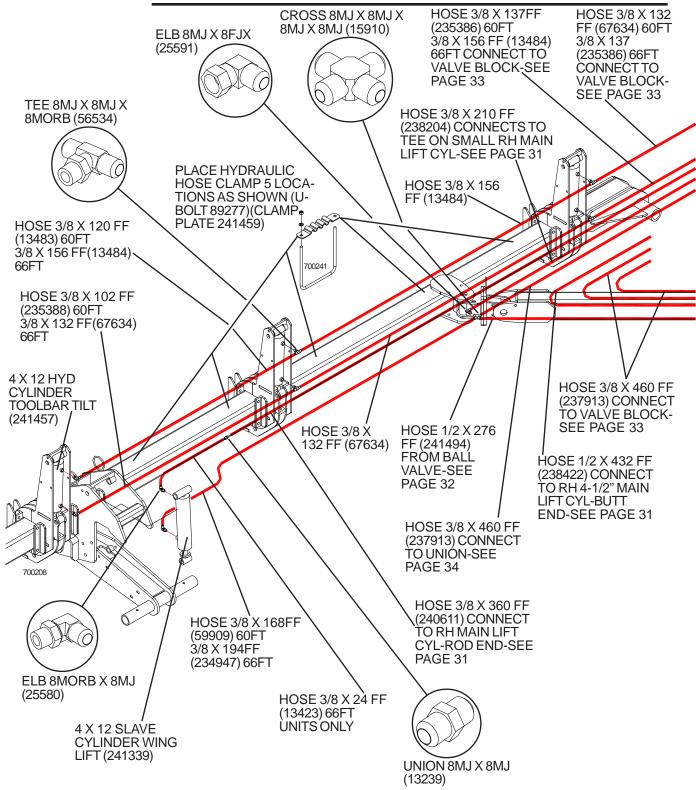
HYDRAULICS-60 & 66FT CENTER



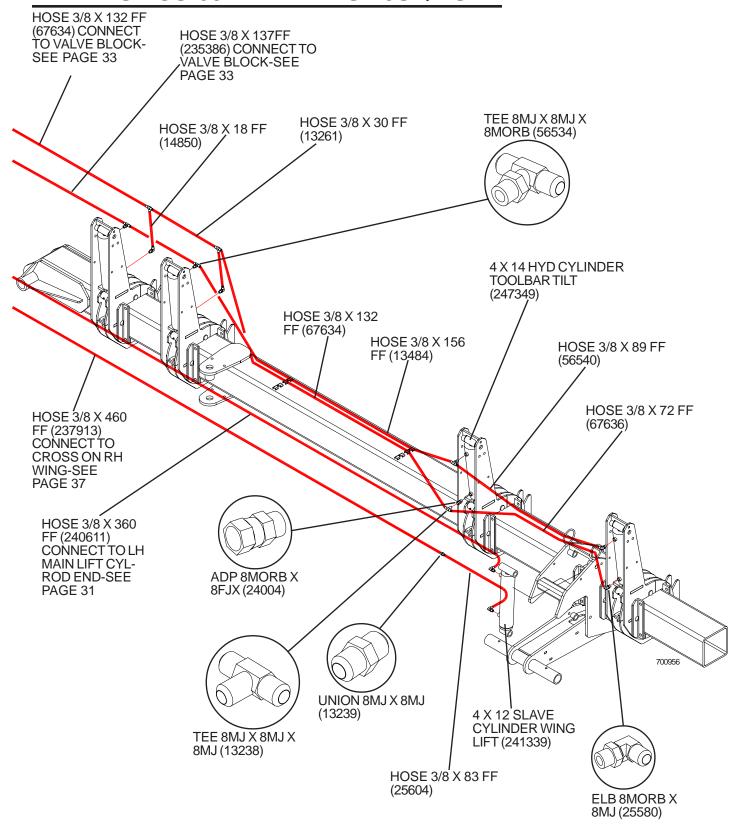
HYDRAULICS-60 &66FT LH WING 7SQ TUBE



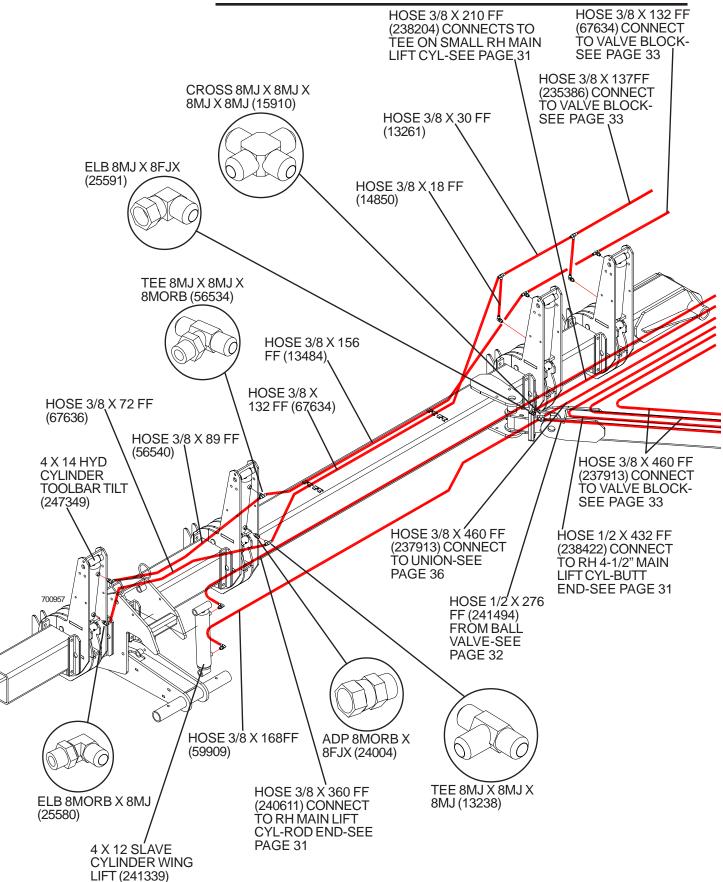
HYDRAULICS-60 & 66FT RH WING 7SQ TUBE



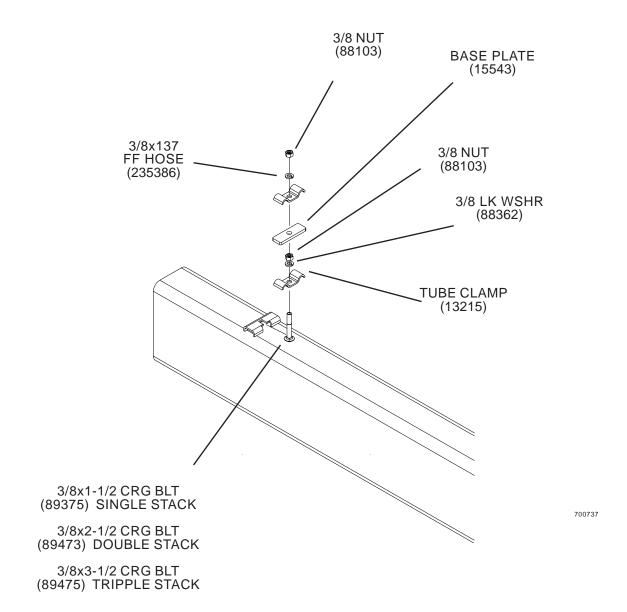
HYDRAULICS-60FT LH WING 10SQ TUBE



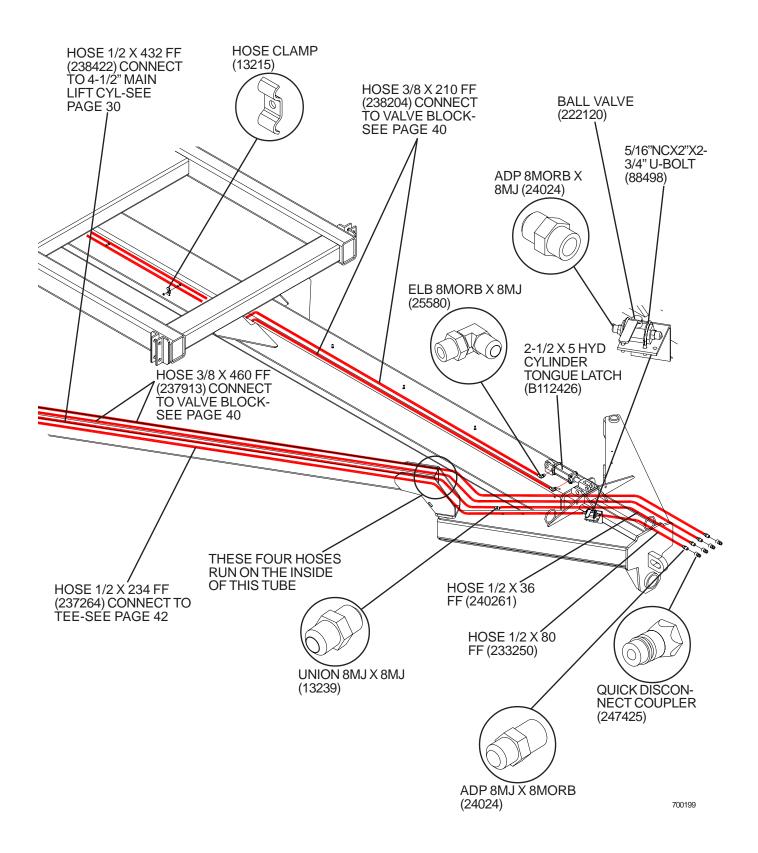
HYDRAULICS-60FT RH WING 10SQ TUBE



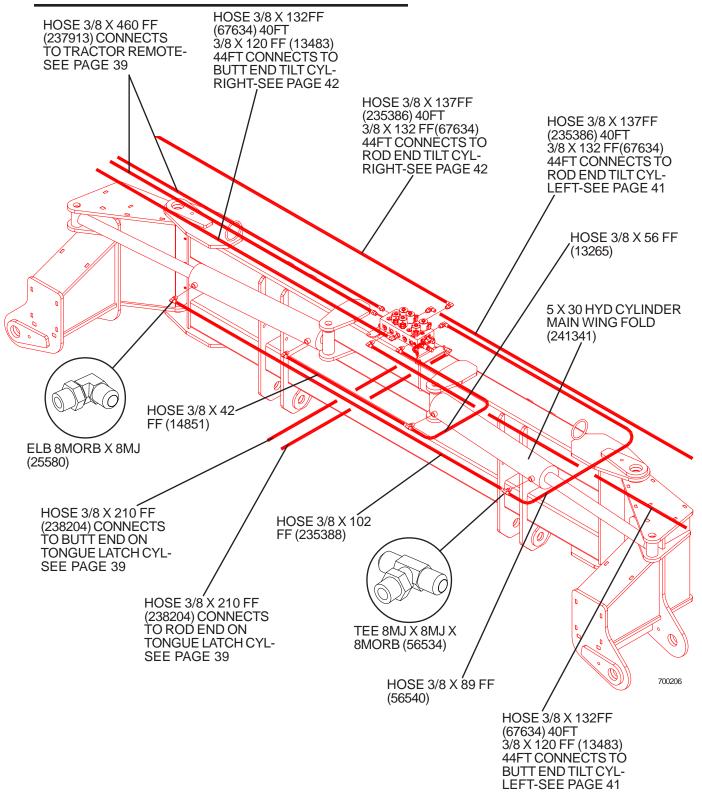
HOSE CLAMP ASSEMBLY



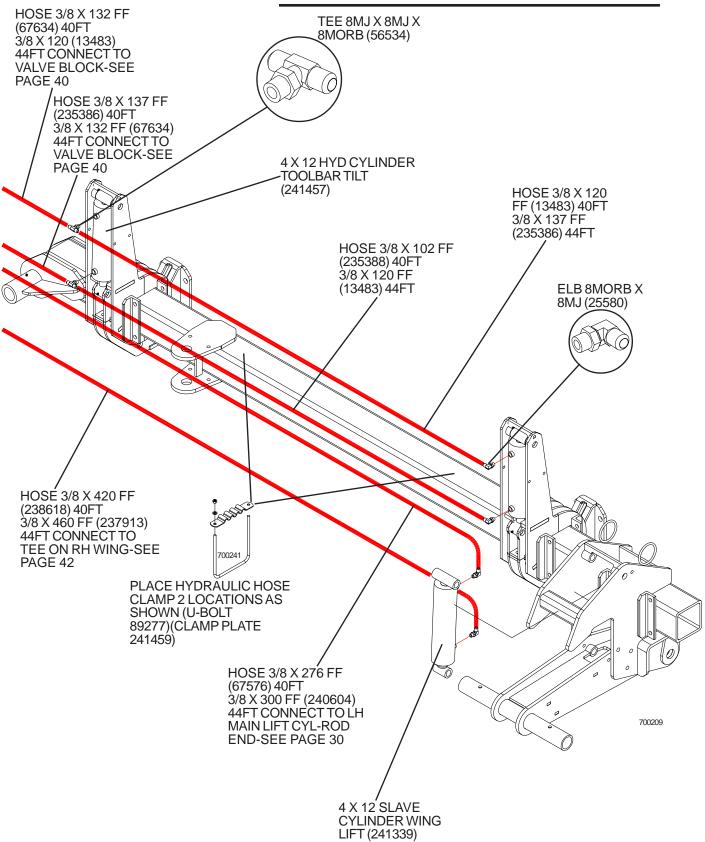
HYDRAULICS-40 & 44FT TONGUE LATCH



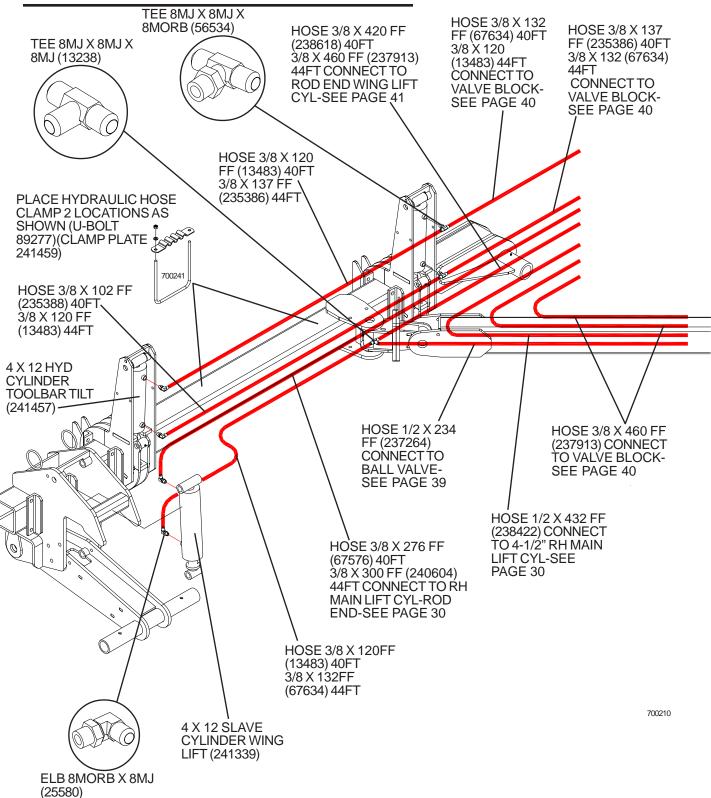
HYDRAULICS-40 &44FT CENTER



HYDRAULICS-40 &44FT LH WING



HYDRAULICS-40 & 44FT RH WING



Initial Assembly and Charging of Lift Systems

All WIL-RICH lift systems should be assembled as noted in the appropriate assembly manual. For best functional results the following steps should be followed.

- 1) Position the main lift cylinders in the locations and connect the hydraulic circuitry as shown. Attach the base end of all cylinders but do not connect the rod ends.
- 2) Most fittings, except the connection tips at the tractor end and some valves, are JIC or Oring type fitting. JIC and O-ring fitting do not require any type of thread compound to seal properly. NOTE: Take care to keep all connections, fitting, hose, etc as clean as possible.
- 3) Where pipe threads are used a thread-sealing compound should be used. **NOTE: Do not use Teflon type tape on any hydraulic circuitry; use an appropriate liquid compound.** If any tape or contaminate enters the system if can clog the bypass hole.
- 4) With all connections secured and the cylinders supported to allow rod extension apply pressure to the system.

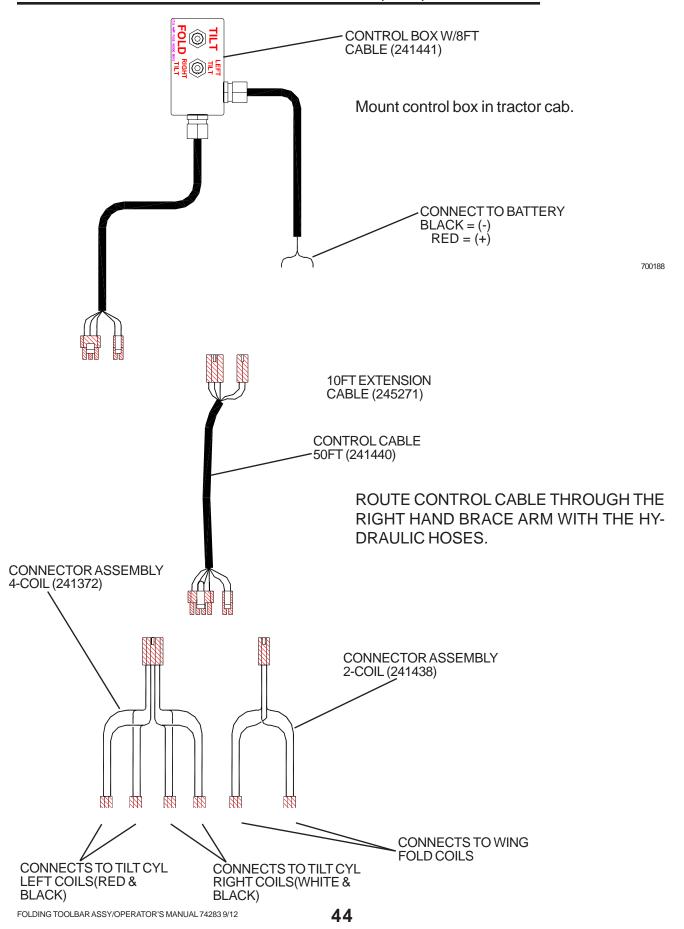
The main or base cylinder should extend as oil flows into the base of the cylinder. Because there is air in the remaining cylinders and in the connecting hoses the outer cylinders may extend quickly. Just because the cylinders are extended does not mean the system has been purged. Continue to direct oil into the system until all cylinders have extended fully. **NOTE:** the cylinders will only bypass when the cylinders are fully extended.

Keep in mind that all the oil going to the outer cylinders must be bypassed through the base cylinder bypass hole and subsequent cylinders. This will take some time, in some cases a considerable amount of time. On large unit with multiple wings and lift cylinders it will take longer to charge the system and a large amount of oil will be required. Check that your tractor has sufficient oil capacity; you may need to add oil to your reservoir. Also, because of the of the need to force all the oil though the by-pass holes you will need to have a system pressure of 2500-3000 psi.

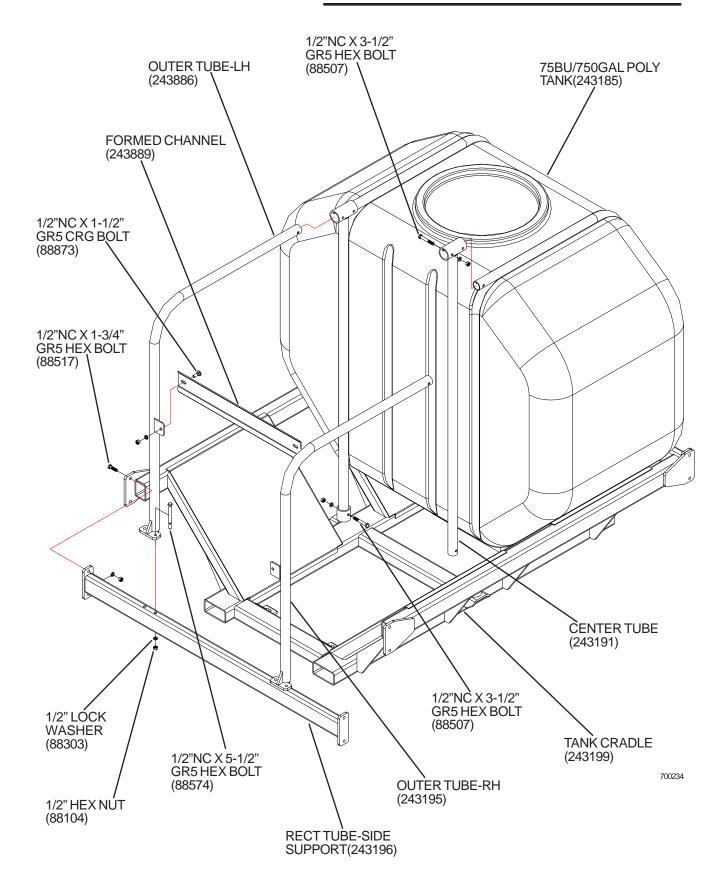
Once all cylinders on the unit have been fully extended, retract the cylinders and again extend fully. Hold the cylinders in the extended (bypass) position for a few minutes, retract the cylinders and observe that the cylinders are working in sequence. Raise and lower the unit and check to ensure the unit is moving in a level manner.

If the cylinders have been properly bypassed, all cylinders and hoses should be filled with oil with no air in the system. In actuality there will still be some air in the system as it is unlikely all air has been purged from the system. Even with some air in the system the cylinders should move in sequence and lift and control the depth of the unit. If the cylinders don't seem to be bypassing it may indicate that some debris has blocked the bypass hole. Because the hole may be blocked it is critical to maintain clean oil. Protect the complete hydraulic system at all connection points.

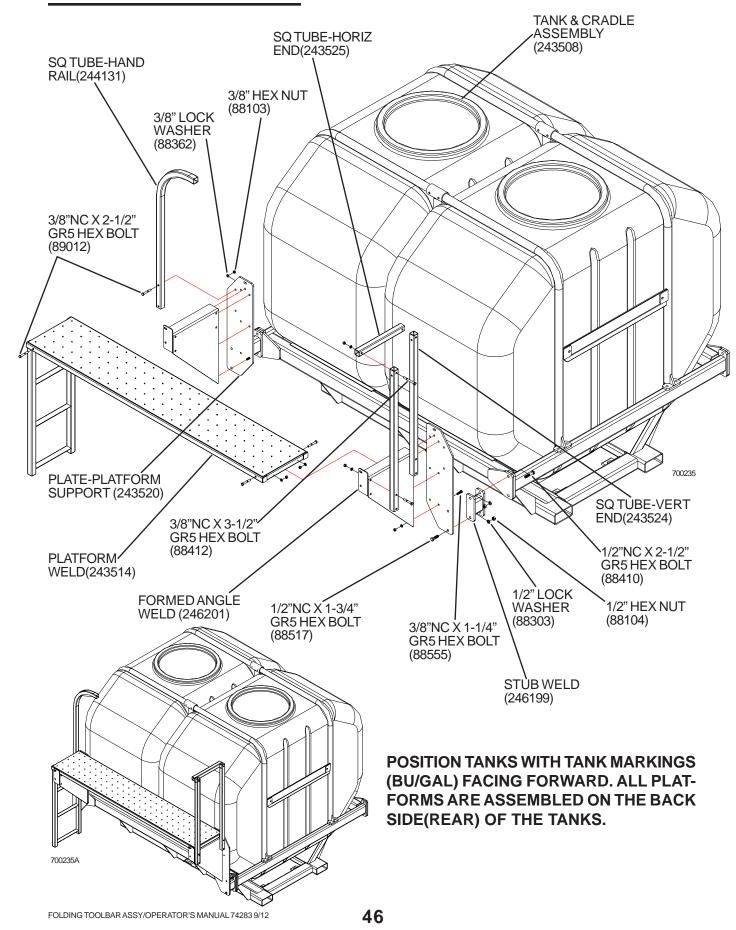
ELECTRICAL COMPONENTS 40, 44, 60 &66FT



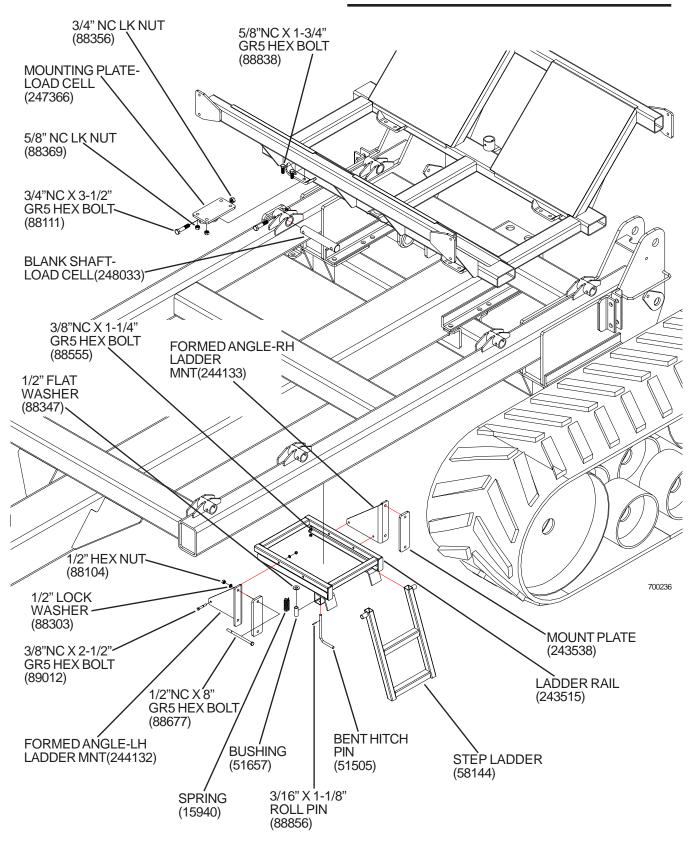
75BU/750GAL TANK & CRADLE



PLATFORM 60FT BAR

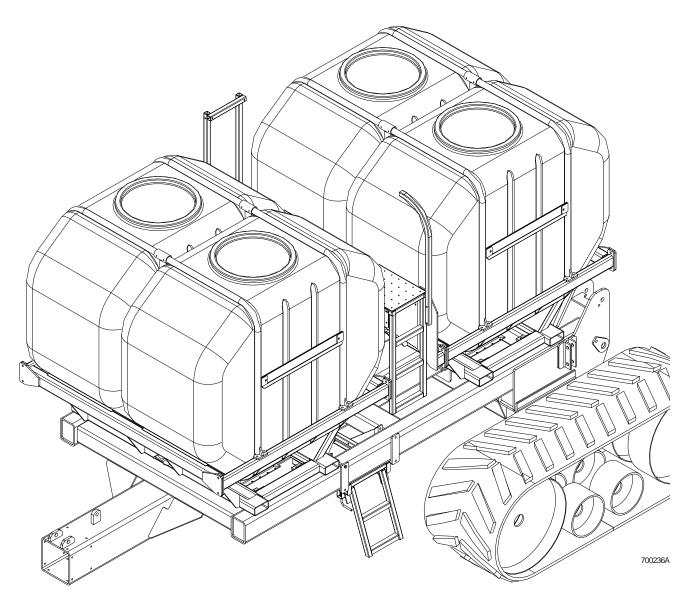


LADDER & CRADLE MOUNT



60FT TANK & PLATFORM

MAXIMUM TRANSPORT SPEED 15MPH

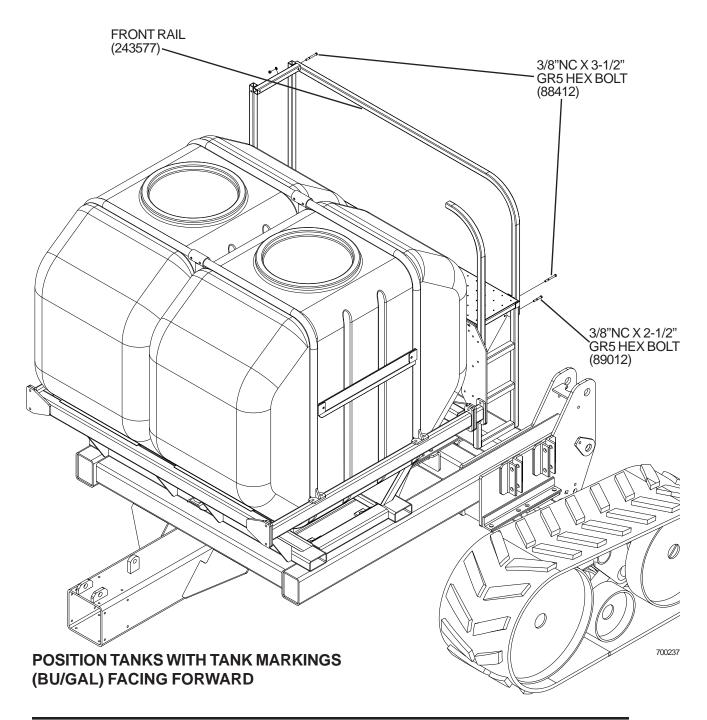


POSITION TANKS WITH TANK MARKINGS (BU/GAL) FACING FORWARD

DO NOT TRANSPORT WITH TANKS FILLED - TANKS MUST BE EMPTY DURING TRANPORT

MAXIMUM TRANSPORT SPEED 15MPH

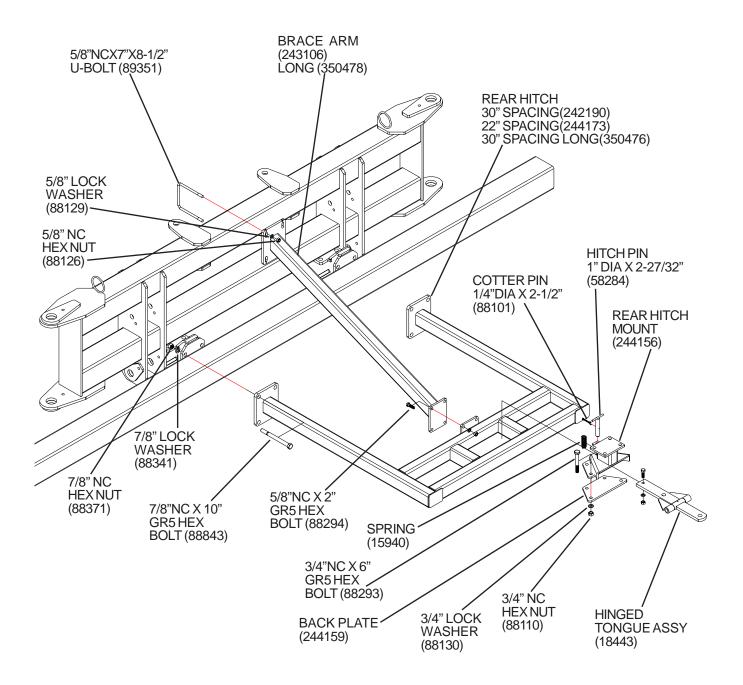
40FT TANK & PLATFORM



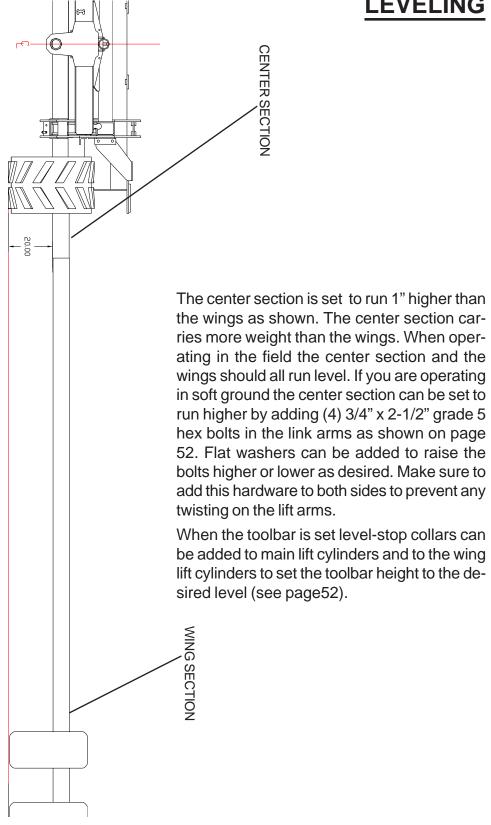
DO NOT TRANSPORT WITH TANKS FILLED - TANKS MUST BE EMPTY DURING TRANPORT

MAXIMUM TRANSPORT SPEED 15MPH

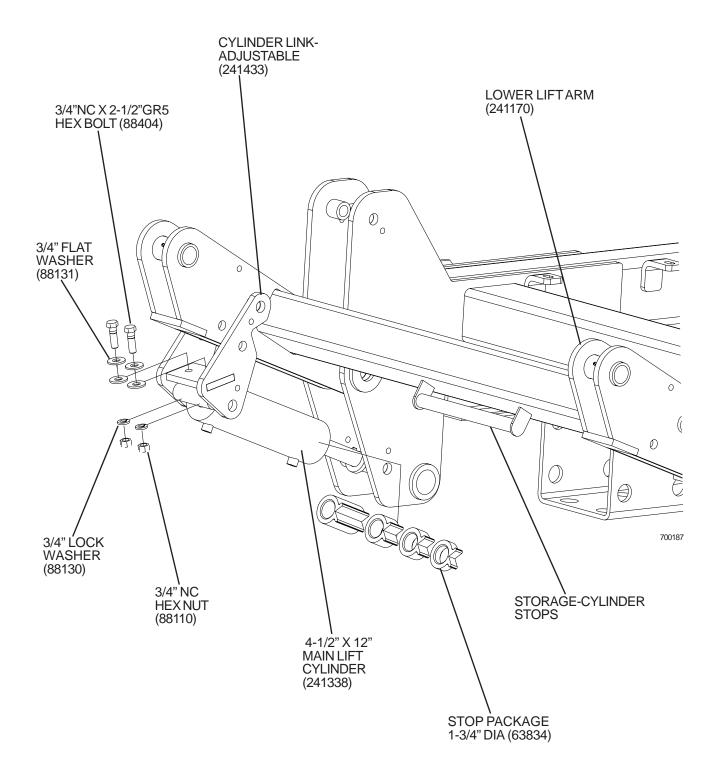
REAR HITCH (OPTIONAL)



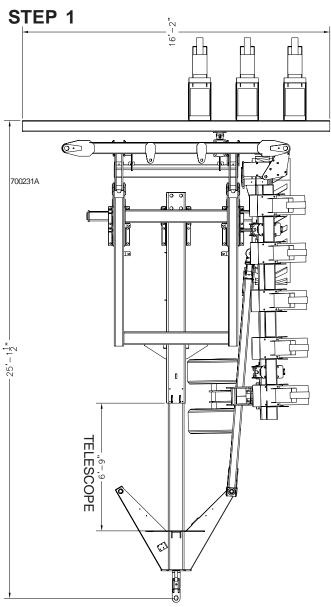
LEVELING



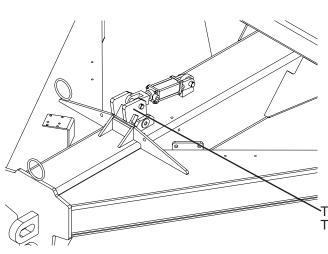
LEVELING

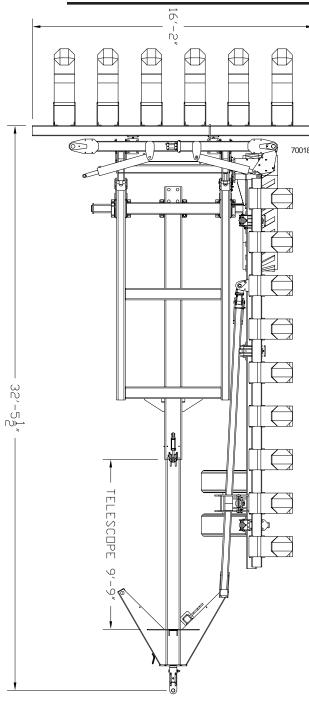


FOLDING SEQUENCE



40FT BAR TRANSPORT POSITION



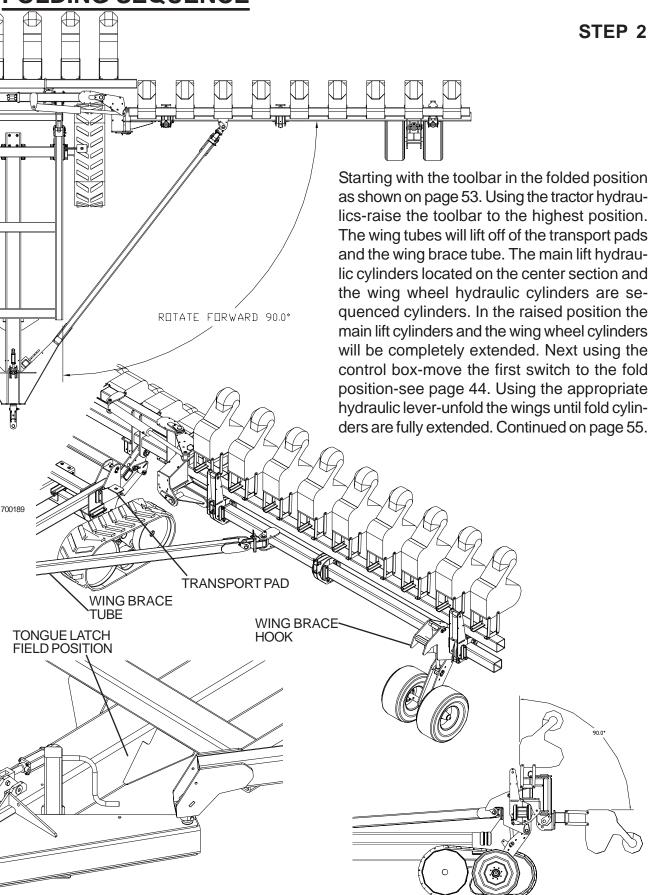


60FT BAR TRANSPORT POSITION

DETACH TRACTOR IN THE TRANSPORT POSITION ONLY

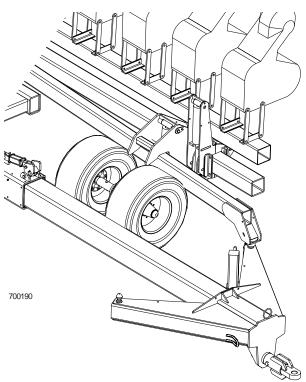
TONGUE LATCH
TRANSPORT POSITION



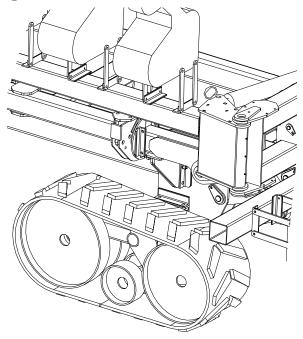


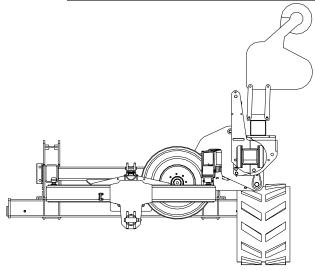
FOLDING SEQUENCE

STEP 3



DETACH TRACTOR IN THE TRANSPORT POSITION ONLY

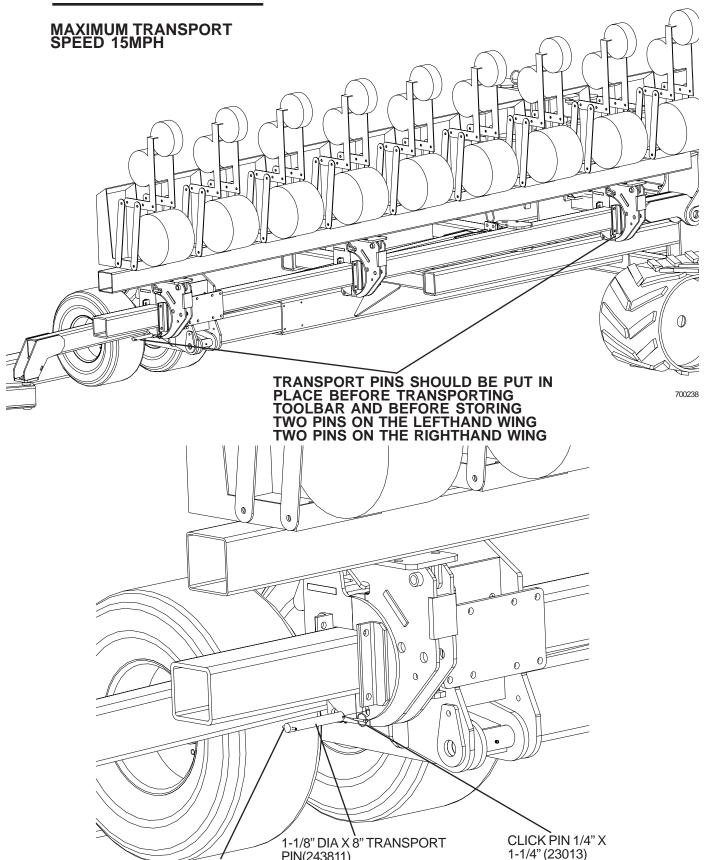




You may have to move the tractor backwards slowly to help unfold the wings. After the wing fold cylinders have fully extended continue to hold the hydraulic lever to unfold-this will activate the tongue latch cylinder to extend as shown on bottom of page 54. This will hold the tongue in place as you move through the field. Next on the control box-move switch to tilt position-this will provide power to the second switch. Move the second switch to left tilt position to rotate the left hand wing toolbar down 90° as shown on bottom of page 54 (field position). Move the second switch to tilt right to rotate the right hand toolbar down 90° (field position). When the toolbar is not being folded make sure both switches are in the center position-any switches left on will continue to draw current. Reverse this sequence to fold toolbar for transport. When toolbar is folded make sure wings are hooked over the wing brace tube as shown above. Also wing wheel cylinders should be fully retracted for ground clearance during transport. Rear wings and center section will rest on transport pads during transport.

WING TOOLBARS MUST BE TILTED UP 90° BEFORE FOLDING WINGS FORWARD

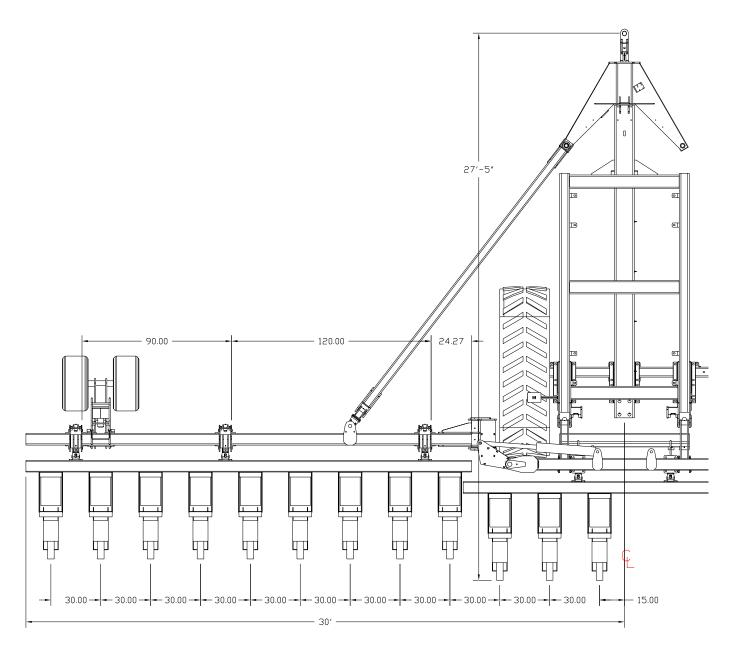
TRANSPORT PINS



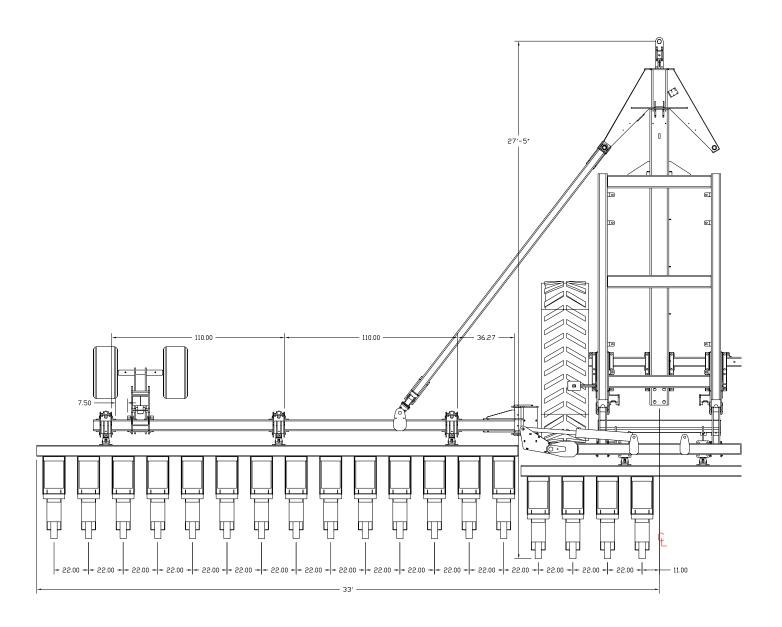
PIN(243811)

1/4" X 2-1/4" **ROLL PIN** (42484)

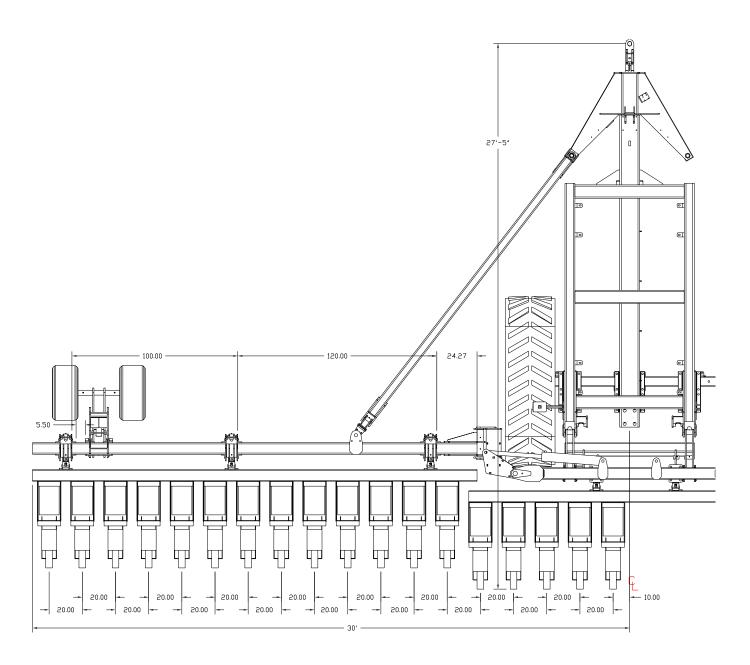
24 ROW 30" SPACING 60FT



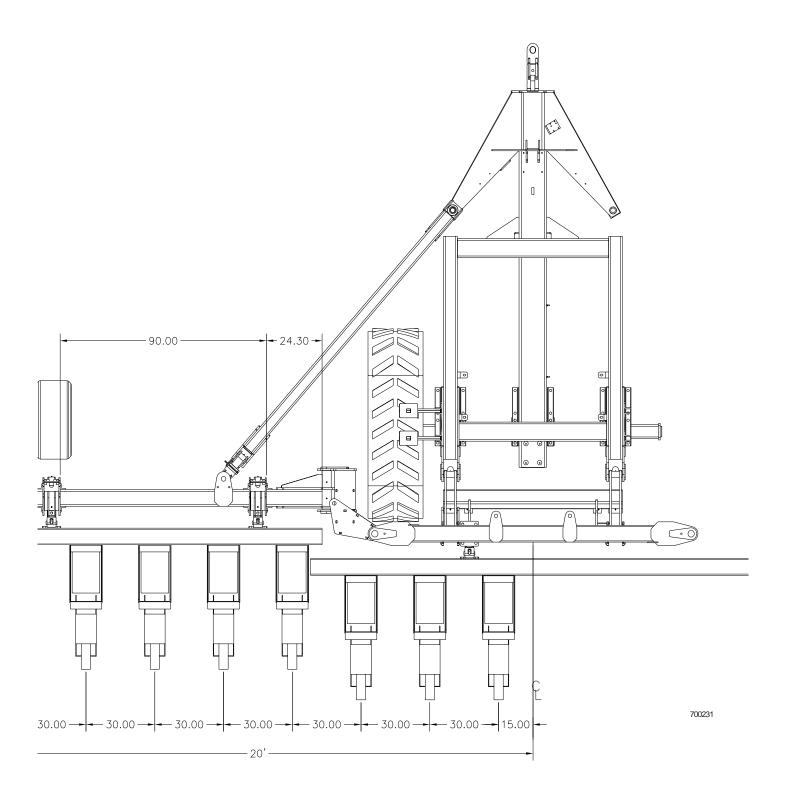
36 ROW 22" SPACING 66FT



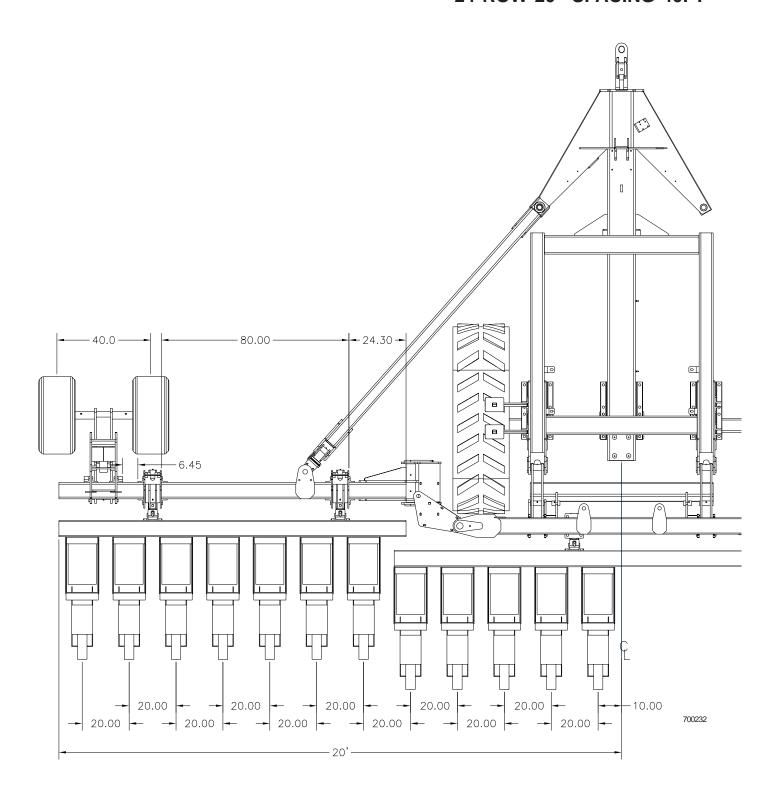
36 ROW 20" SPACING 60FT



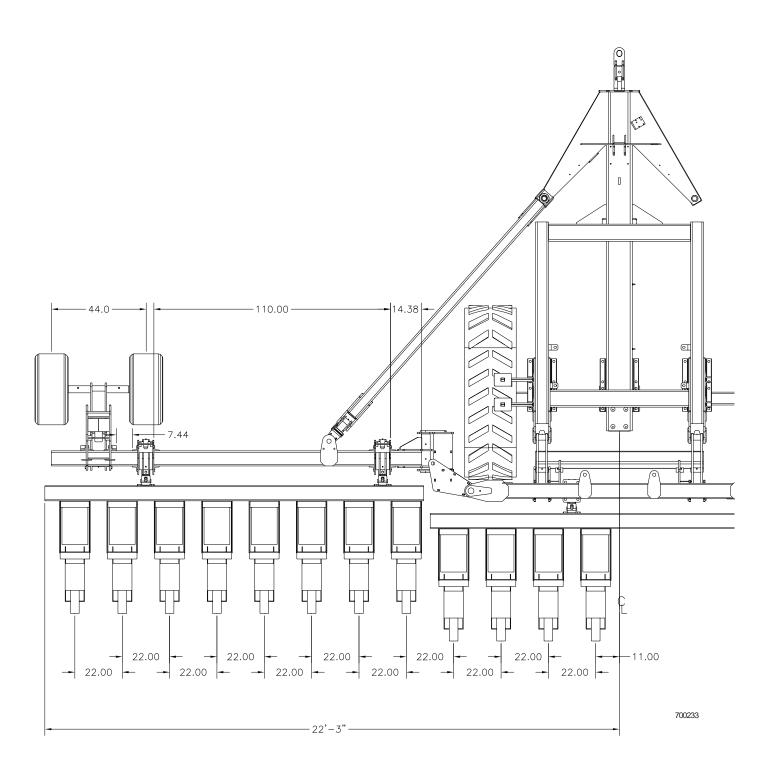
16 ROW 30" SPACING 40FT



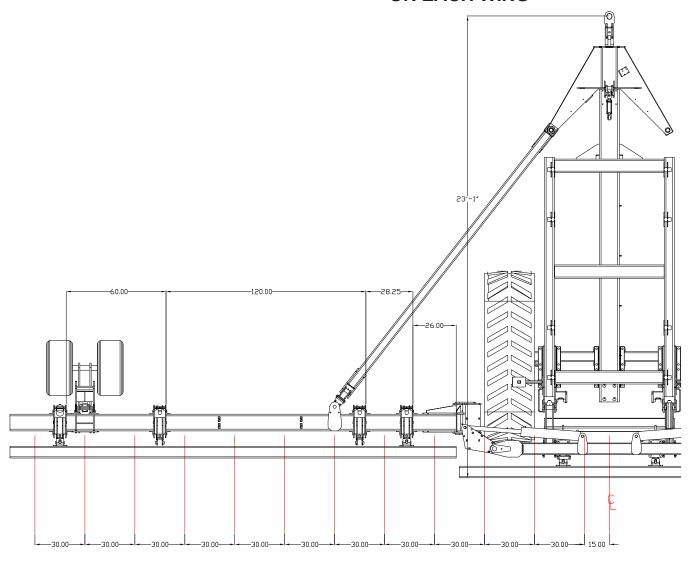
24 ROW 20" SPACING 40FT



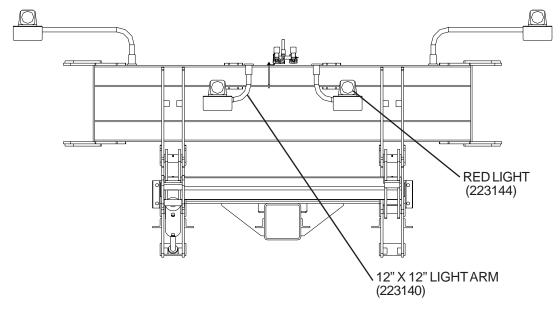
24 ROW 22" SPACING 44FT

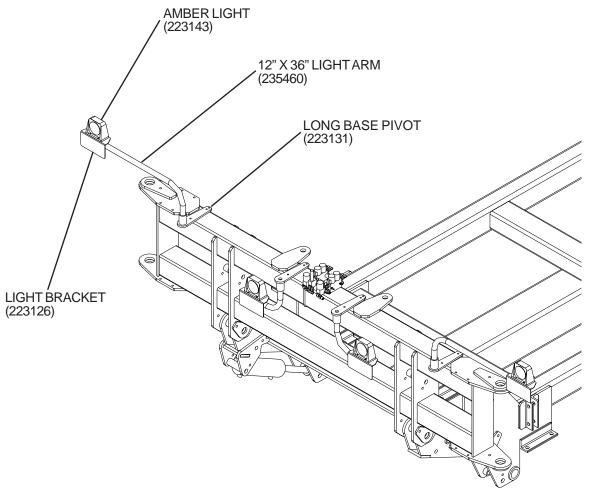


24 ROW 30" SPACING 60FT 10" SQ TUBE WITH 4 HYDRAULIC TILT CYLINDERS ON EACH WING

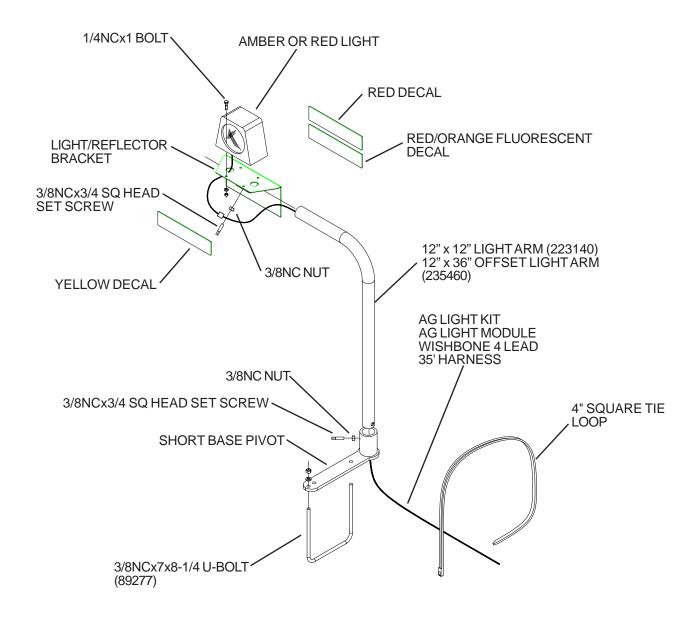


LIGHT PLACEMENT









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