

VIBRO TILL 2900

Field Cultivator - Assembly Guide

Kongskilde
2900 Series



*Model may not be exactly as shown.

Kongskilde reserves the right to make changes to product designs and specifications without notice or obligation to rework.

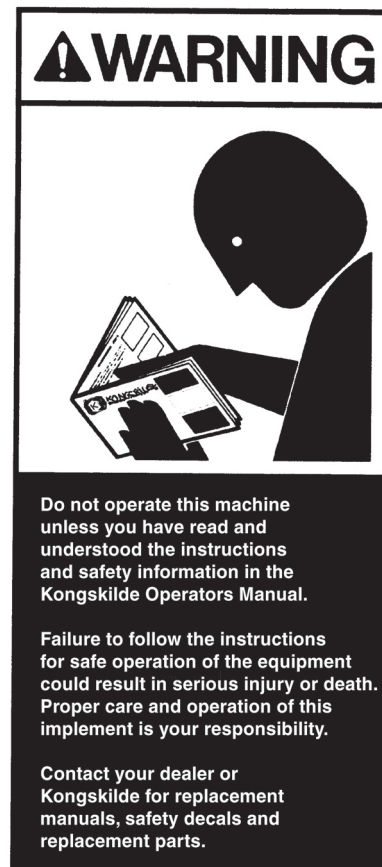
See your local Kongskilde representative for current product specifications, instructions and options.

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Introduction:

Please take the time to carefully read and review all instruction booklets provided with your new Kongskilde product.



These instruction booklets have been developed to assist you in assembling, adjusting and maintaining your new Kongskilde Product. To obtain optimal performance over the lifetime of the product read and follow these instructions carefully.

A copy of the Spare Parts List has also been provided in order to identify the components and hardware needed for each step of the assembly and to help you identify and obtain replacement parts in the future.

When the assembly of the unit is completed, please refer to the Owners Manual before attempting to adjust or use the product. The Owners Manual will provide you with further instructions on the proper Field Settings, Adjustments and Maintenance Procedures for Safe Operation of the unit.

If optional equipment or attachments have been ordered for your unit, please refer to the instruction booklets provided for proper installation and adjustment of these accessories.

Please take the time to fill out and return the Owners Registration and Warranty Form provided with the Owners Manual in order to activate the warranty coverage.

Pre Assembly Instructions:

Assembly of Kongskilde products should only be undertaken by authorized Kongskilde Dealers or an approved service provider who has the necessary tools, equipment and training for safe handling and proper assembly of the unit.

Proper handling and assembly of the components is critical in order to validate the warranty policy.

It is important to note that the frame components are heavy and somewhat awkward to handle. Proper lifting devices such as overhead cranes, boom lifts or mobile lift trucks should be used at all times when moving or handling the large frame components and must only be operated by individuals who have had the proper safety training for using such devices. Proper steel assembly stands or support jacks should also be used to support the frame components and prevent them from falling during assembly.

Recommended assembly tools include:

A full set of standard open or box end wrenches and sockets; assorted sizes of pin punches; a heavy hammer and/or sledge hammer; a pry bar; a large adjustable wrench; and pair of vise-grip or similar type pliers.

Optional tools could include an all purpose jack and a good quality air or electric drive impact tool with heavy drive sockets.

The assembly area should be large enough to allow workers and equipment to move around freely during assembly of the unit.

For example; to fully assemble a 2900-90 with 29' (9m) working width, a minimum area of 30' x 40' (10m x 12m) with 16' (5m) overhead clearance is required to assemble and fold the machine.

If the unit is to be assembled and folded indoors, additional clearance may be needed in the assembly area.

The ceiling height and the size of the building exit door must also be considered in order to safely fold and move the cultivator outdoor after assembly.

The floor area should be relatively clean and level.

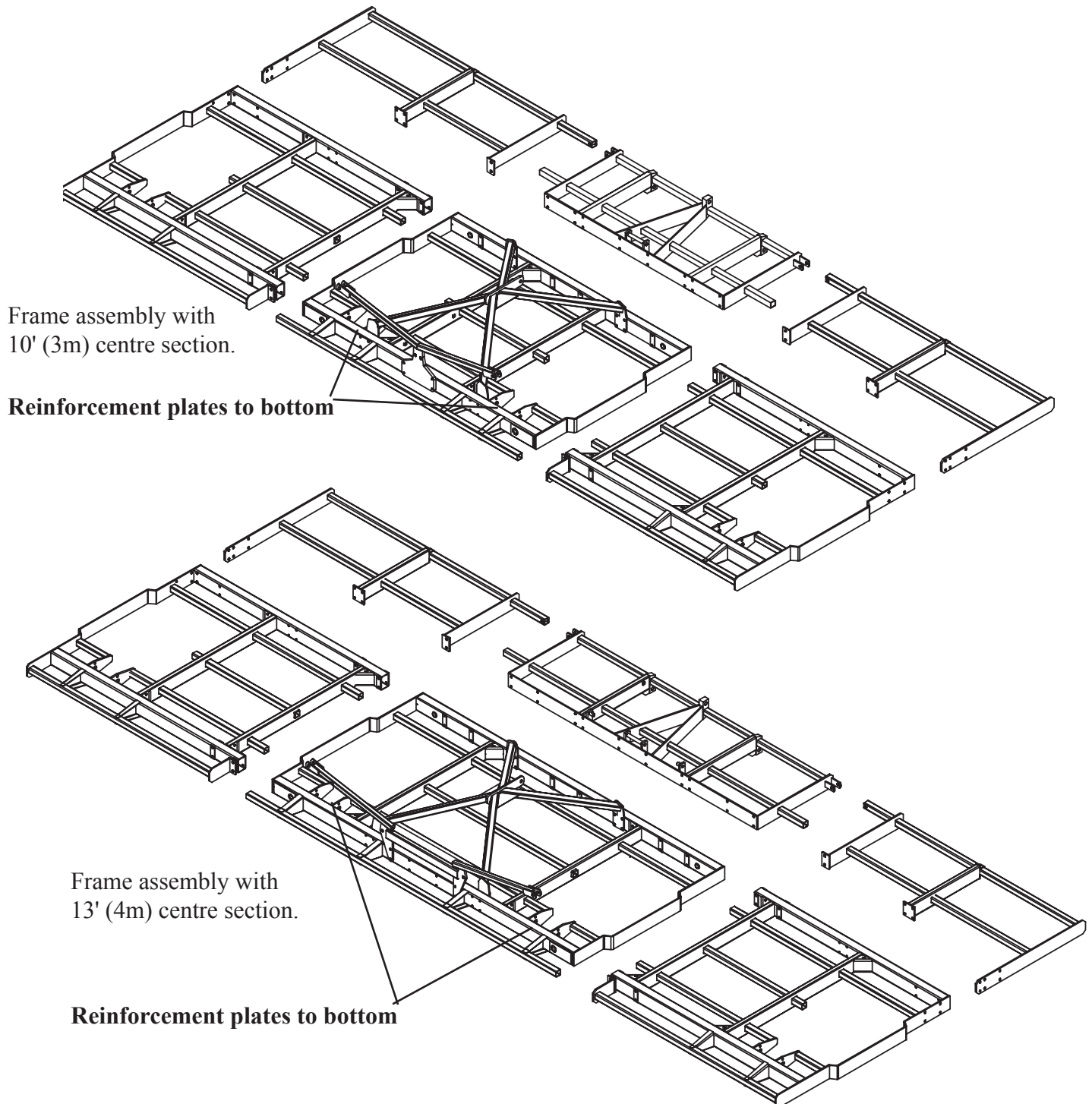
Proper lighting and ventilation should also be provided to allow the work to be carried out in a safe and efficient manner.

Frame Sections

Sort out the frame sections for the size of cultivator you are assembling. Note that there are 2 different centre frame configurations as shown below: 1) 10' (3m) narrow transport model or 2) 13' (4m) wide transport model.

The main wing frames are the same for both the 3m and 4m models however, some components are different such as the assembly hardware and hydraulic hose kits. Refer to the spare parts list supplied for a full description of all of the different parts for both models.

***** The Center Frame has a top and bottom, Be sure the reinforcement plates at the top of the wheelarm connection are on the bottom of the frame**



To ensure the stability of the frames and safety of the workers during assembly, place the cultivator frames on sturdy steel shop stands. Do not use construction blocks, tiles or supports constructed of wood or other materials that could crush under continuous load. Position the stands so they do not interfere with the mounting of frame components and tines.



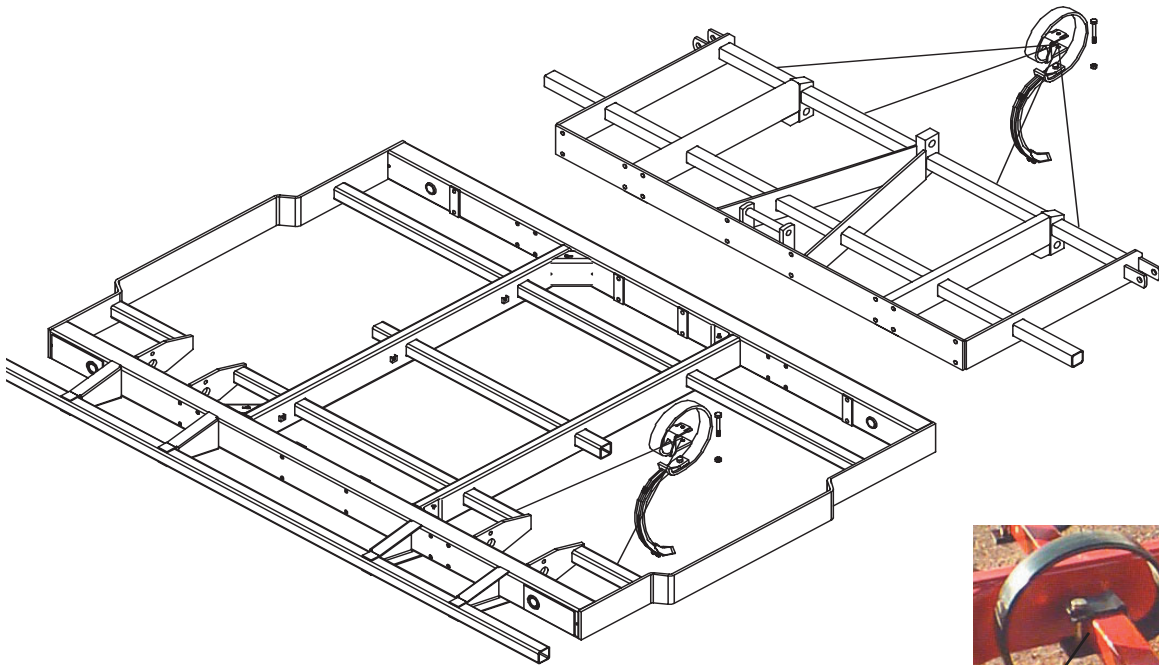
Tines mounted in the wheel area or near the hinge points should be left loose until after the wheel arm assemblies and wing fold hinge plates are installed. This will allow the tine to move out of the way during assembly of the wheels and hinge components.

Tine Scheme

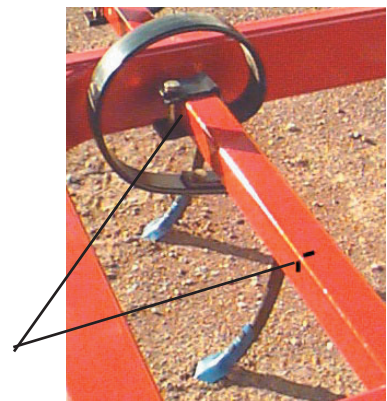
Use the tine patterns booklet for the model of cultivator you ordered and begin measuring the tine locations on each of the toolbar tubes.

Note that there are 2 standard tine patterns:

4" (100mm), and 6" (155mm). Tine quantities delivered with the unit are based on the model size of cultivator and the tine spacing chosen at time of order. Therefore, if you decide to change the tine spacing after delivery of the unit you may need to order extra tines depending on the pattern you choose. Other tine spacings are available on request for various special applications.



Hook a tape measure on the "0" side of the cultivator frame and put a mark on the front side or top of the toolbar tubes at the dimensions shown on the tine pattern drawings. Mount the tines so they are centred at the location marked. The mark will be covered by the clamp and bolt.



Hardware Organization

Carefully unpack and lay out all of the fasteners and hardware. (The empty shipping crate and cardboard makes an excellent temporary work bench.) Assembling the cultivator is more efficient if you take a few minutes to sort and organize the hardware by type and size instead of dumping the bag or box in a pile on the floor. Place the assembly instructions and parts list on the table for quick reference to help identify the parts for each step of the assembly.



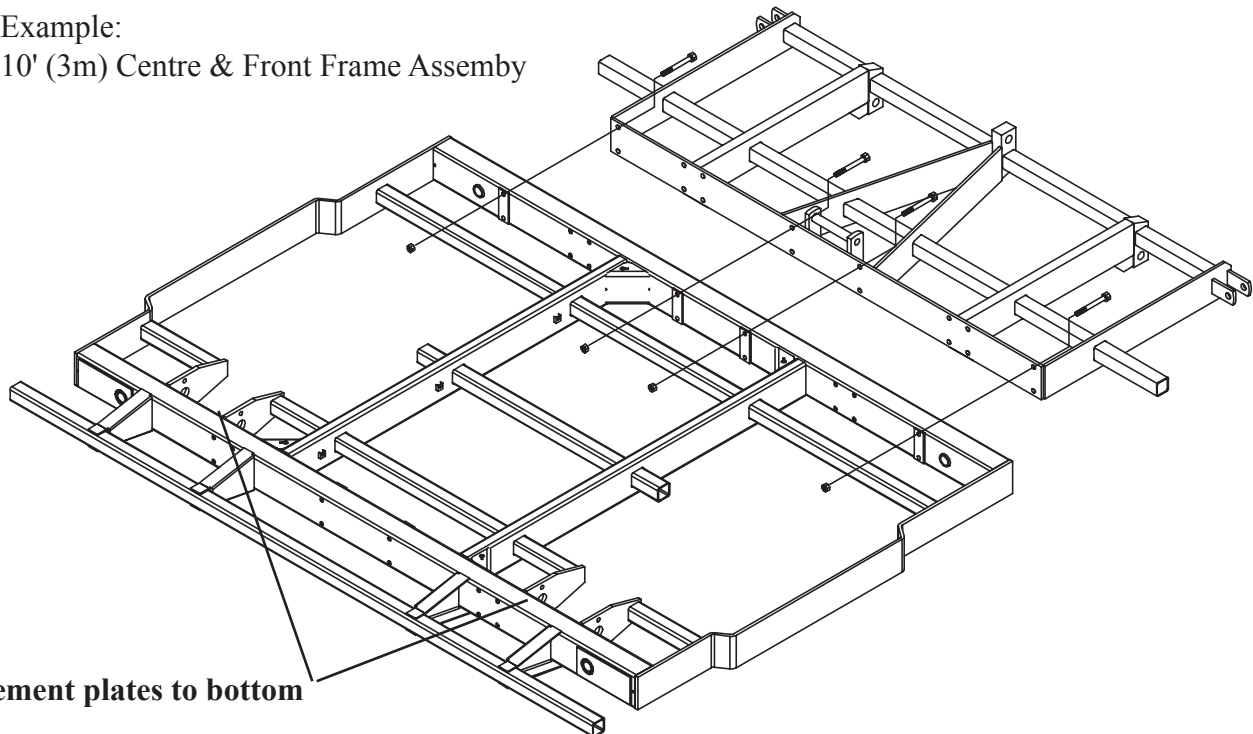
When the tines are mounted to the main frame and front extension, move the 2 frame sections together and assemble the centre section with the bolts, nuts, washers and pins shown in the parts list.

Take care to insert the front frame bolts from the front and insert the back frame bolts from the back so that the locknuts are all facing inside the machine. This will keep the frame assembly looking neat and tidy and make the assembly more efficient.

(Note: The assembly diagrams do not show tines installed for easier viewing. In special situations where the machine must be partly assembled and shipped to another location, the tines may be mounted after assembly. But generally you will find it easier to mount the tines as you assemble each frame section.)

Example:

10' (3m) Centre & Front Frame Assembly



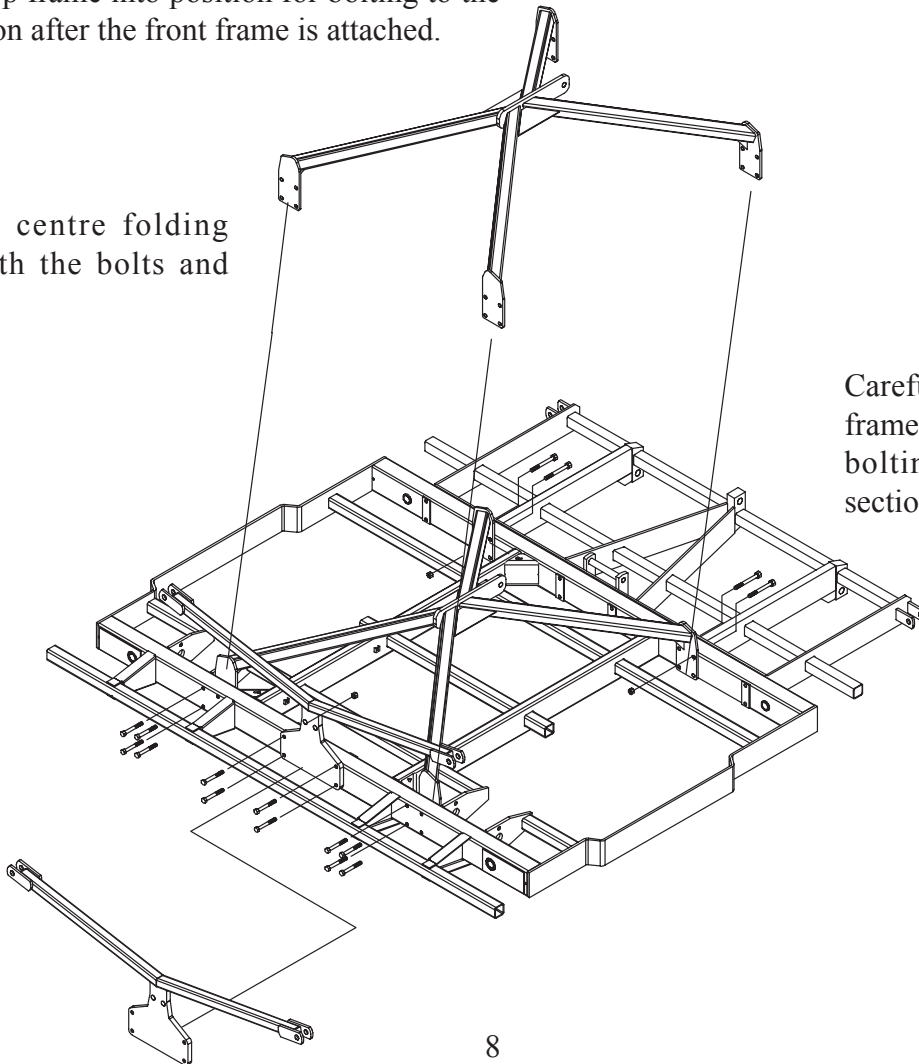
Frame Assembly

Frame assembly can be done while the frames are sitting on the assembly stands, or the stands may be removed once the tines are mounted. Use a fork lift or overhead hoist to move the heavy frame components into position for assembly.



Move the top frame into position for bolting to the centre section after the front frame is attached.

Install the centre folding bracket with the bolts and locknuts.



Carefully lift the front frame into position for bolting to the centre section and top frames.

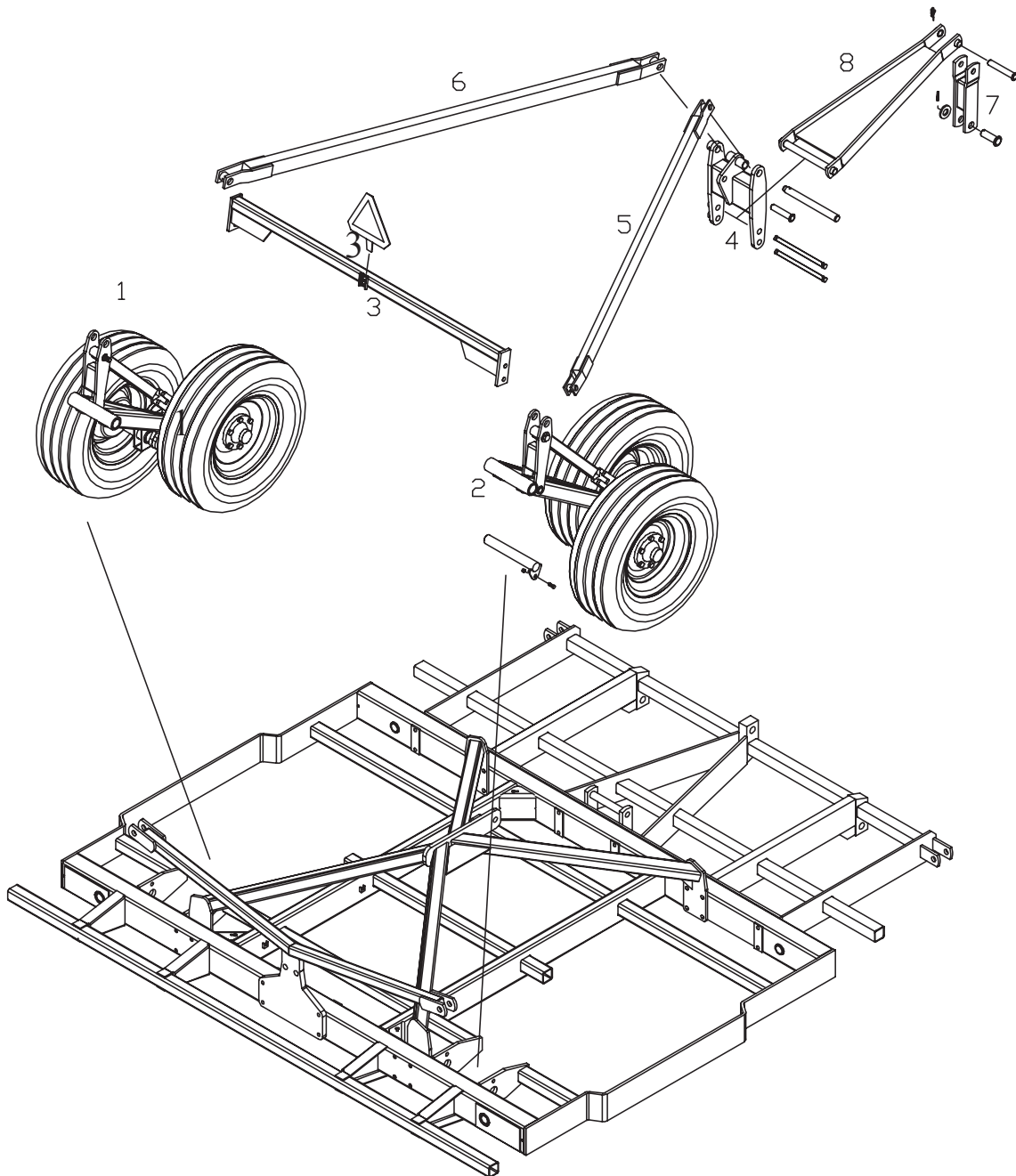
Self Leveling on Narrow Center

Although the 10' (3M) and 13' (4M) centre sections and self levelling wheel lift linkages have some different components, they both have the same basic function and use the same order of assembly as shown by the numbers below and opposite.

Sort out the pieces for the centre section self levelling linkages and wheel arms according to the parts list and the diagram below for 10' (3m) or opposite on page 10 for the 13' (4m).

Important Note: It is much easier to pre-assemble the right and left wheel arms according to the instructions on page 11. The entire wheel assembly can then be lifted into the frame and secured with the wheel axle. The remaining steps for installing the linkages are outlined in detail beginning on page 12.

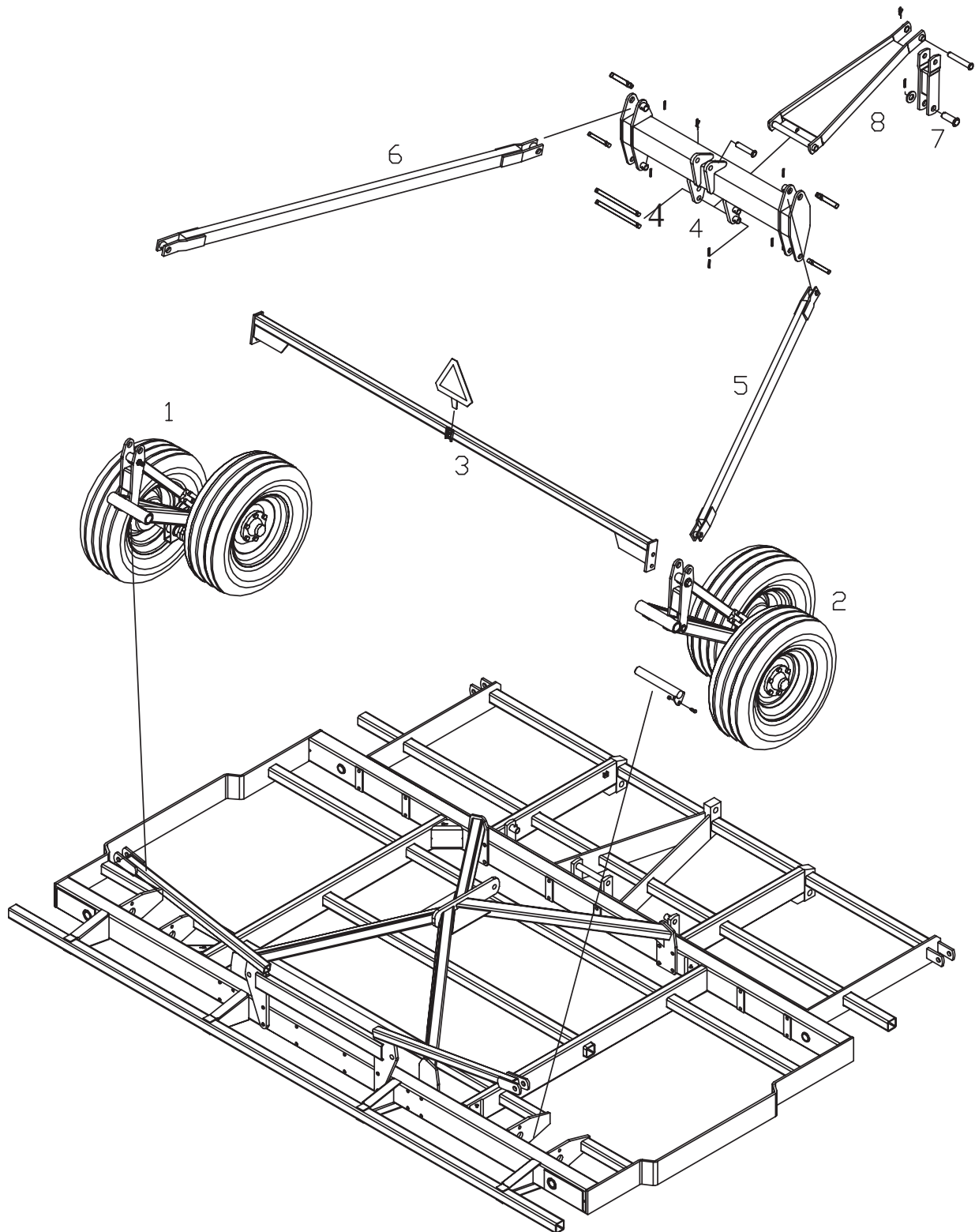
10' (3m) Self Levelling Linkage Assembly



Self Leveling on Wide Center

After the wheel arm assemblies are installed, the self levelling linkages can be attached starting with the wheel connection link at the back and work forward to the hitch. The numbers below show the proper order of assembly. Refer to the detailed instructions beginning on page 11 for proper assembly of the wheel arms and self levelling lift linkages.

13' (4m) Self Levelling Linkage Assembly

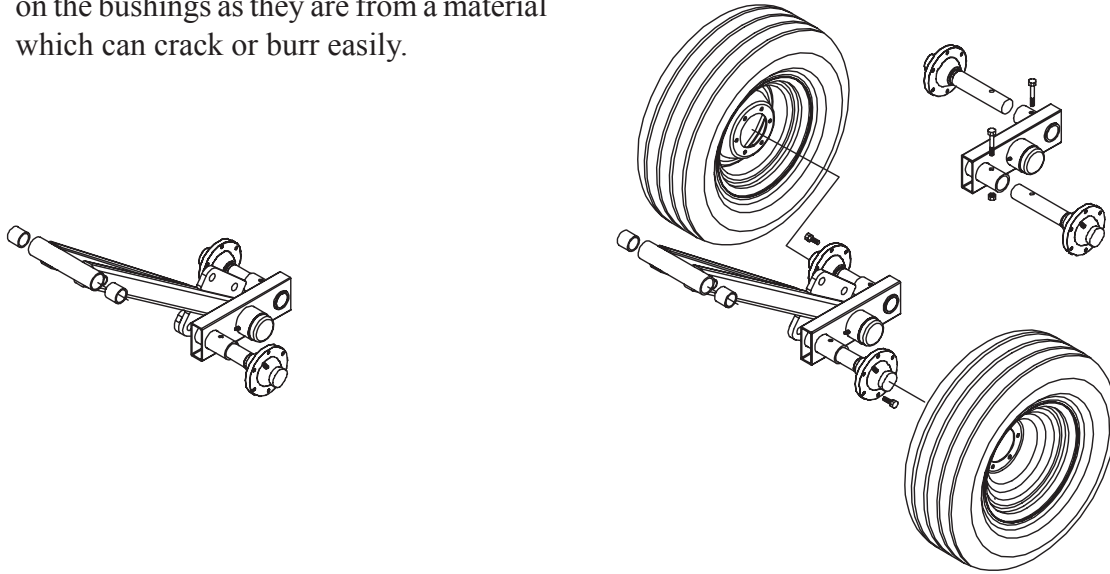


Tandam Wheel Instructions

Carefully insert the wheel axle pivot bushings into the ends of the wheel arm tubes. Tap the bushings into the ends of the tubes with a block of wood or rubberized hammer.

Before mounting the tires, install the wheel spindle bolts as shown.

Never use a steel block or hammer directly on the bushings as they are from a material which can crack or burr easily.



Wheel Linkage Assembly

Assemble the wheel linkage as shown below with the pivot pins provided.

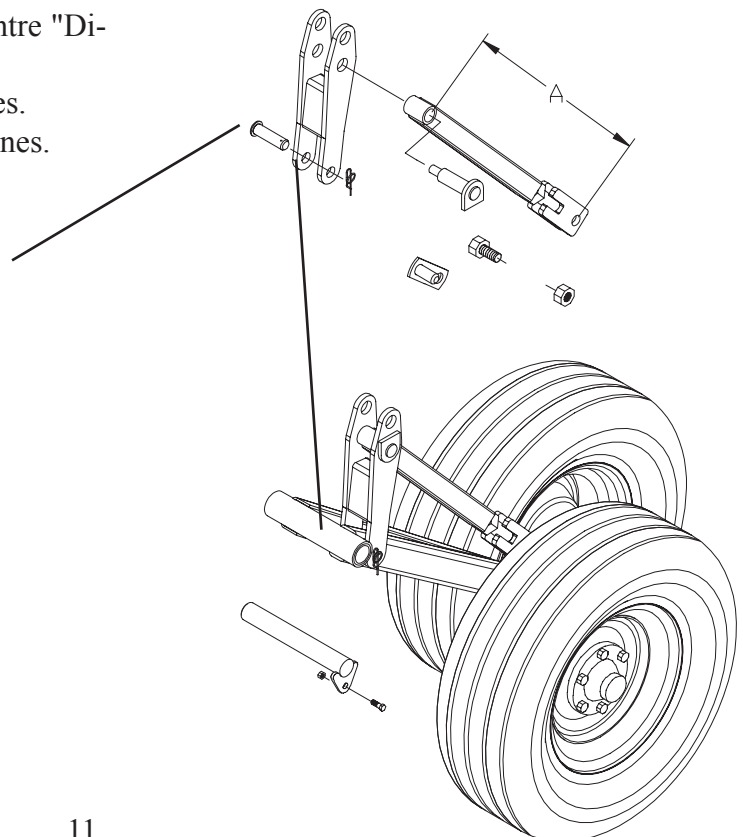
Note that the wheel pivot link shown below is a 2 piece adjustable linkage. This linkage can be lengthened or shortened as necessary to provide proper under frame clearance for 20" or 24" tine options. This adjustable wheel link also provides side to side levelling for the centre section.

The linkage length from centre to centre "Dimension A" should be set at:

A = 28" (71cm) for 20" clearance tines.

A = 28.5" (73cm) for 24" clearance tines.

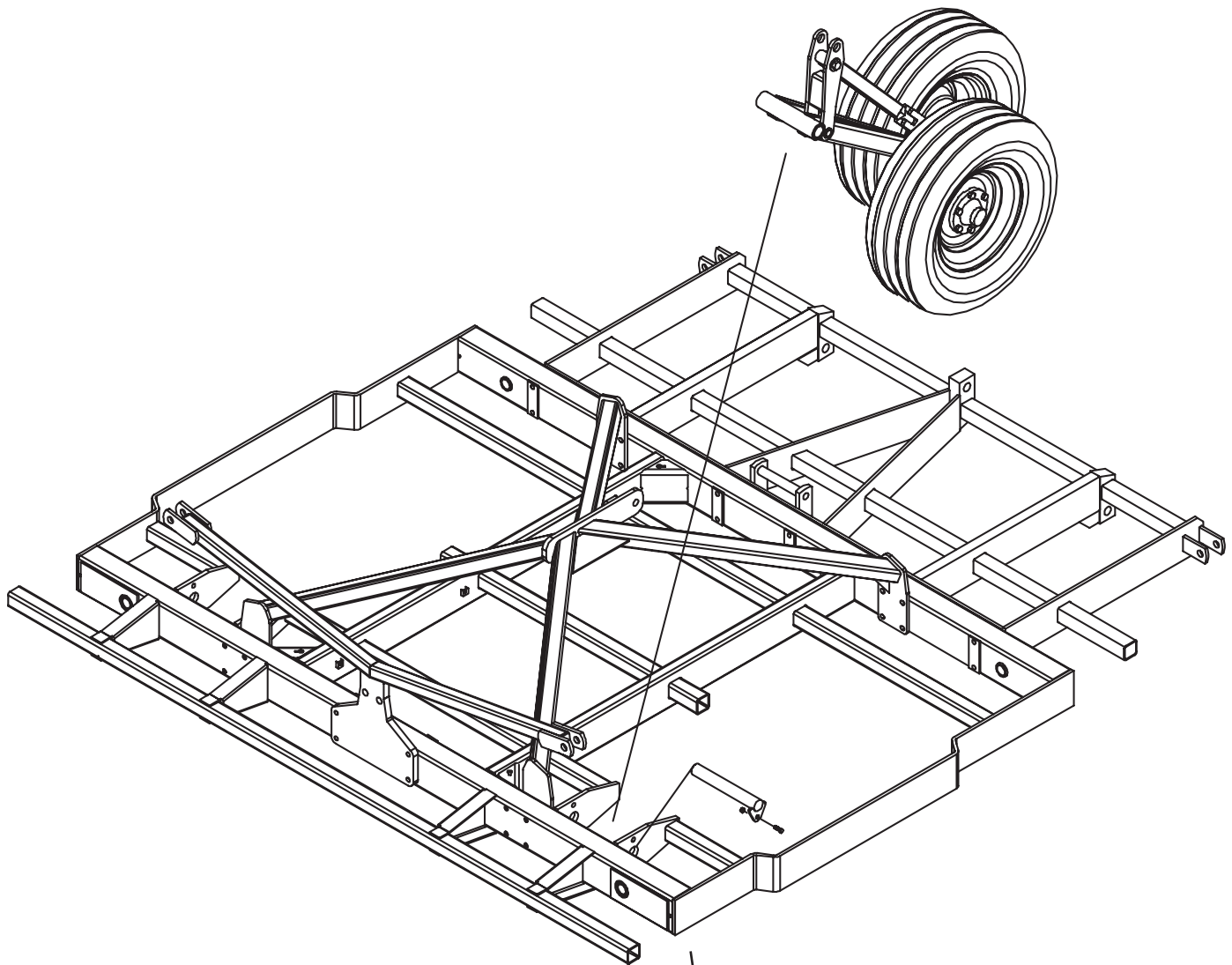
Take care to install the pins from the inside as shown with the clip pins on the outside of the wheel arm.



Using a lift truck or overhead hoist equipped with an approved lifting chain or strap, lift the wheel arm assemblies one at a time into the centre frame as shown below before installing the Self Levelling Wheel Arm Pivot Linkages.

The wheel arm pivots must be aligned with the holes in the frame and then secured with the axle pin as shown in the detail below.

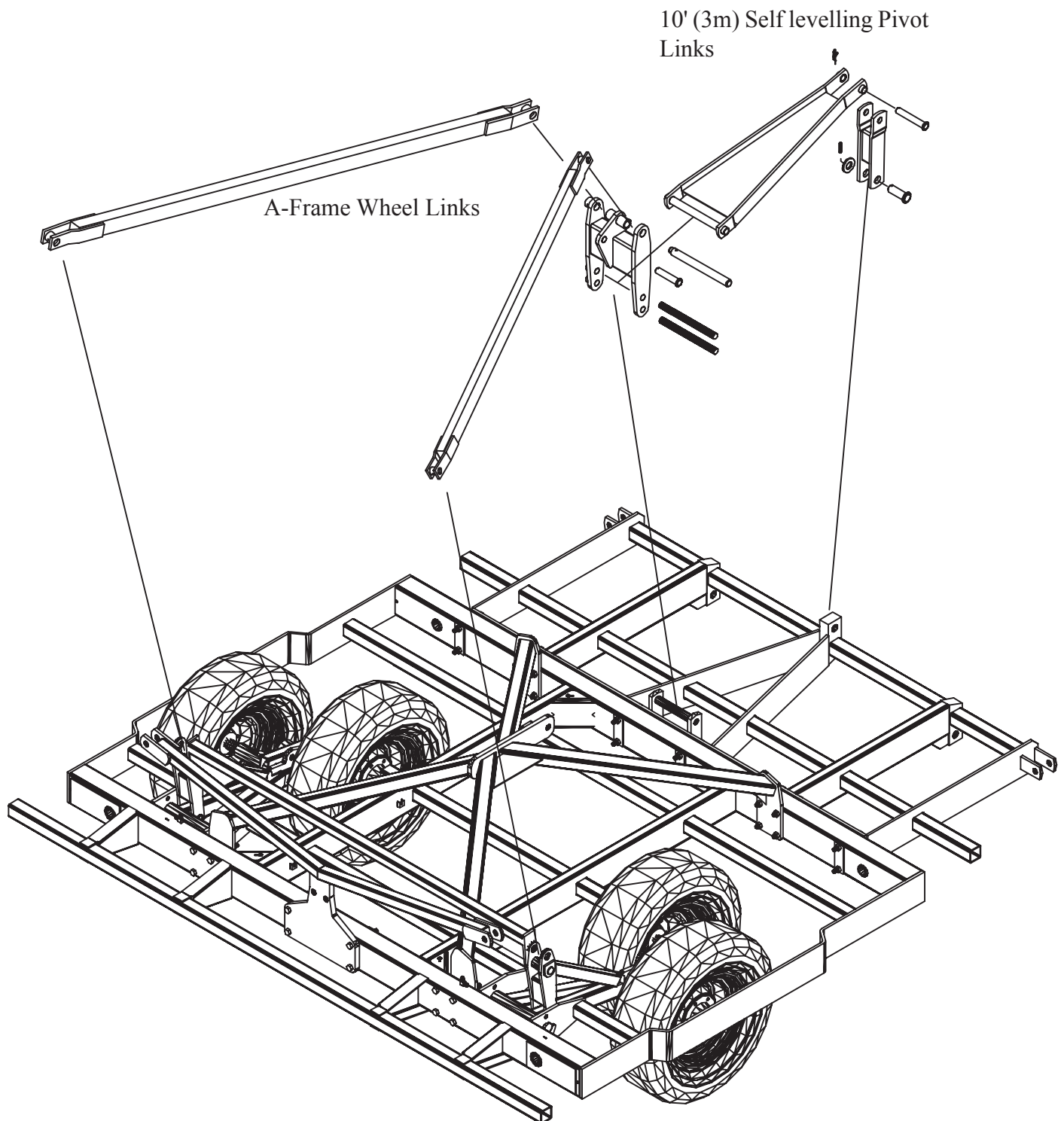
The pin can be coated with a light machine oil or grease to ease assembly but otherwise needs no lubrication as the pivot bushings in the wheel arms are oil impregnated.



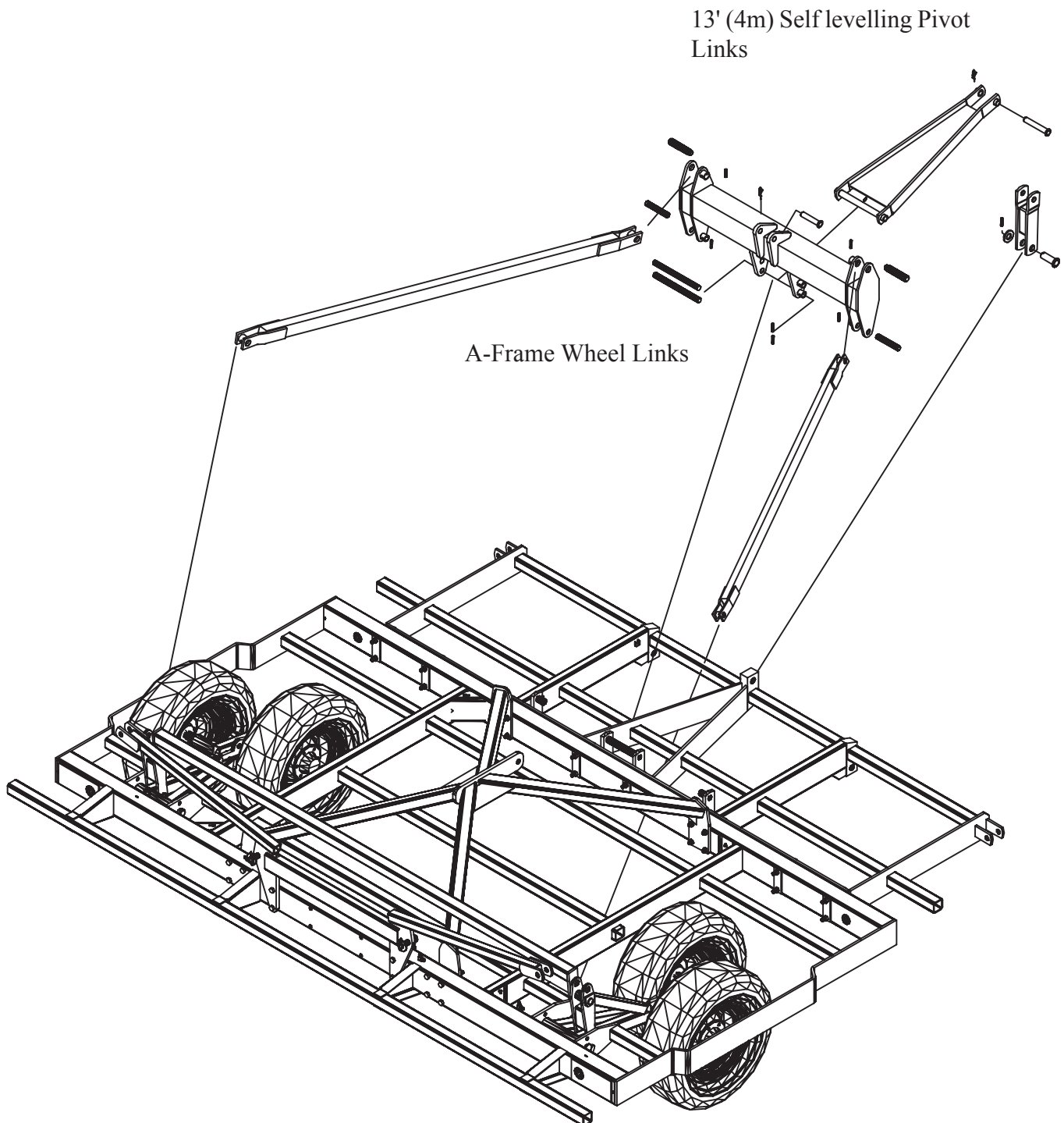
Install the axle pin with lock tab pointing down and secure with the bolt and locknut. Considerable force is required to install the axle as the tolerance is very close.

A-Frame Connection

For the 10' (3m) centre, attach the short Wheel Link Connector to the Wheel Arm Pivot Links and A-Frame Wheel Links with the bolts provided. Remember to install the spacer bushings so the upper pivot point will not bind when the bolts are tightened.

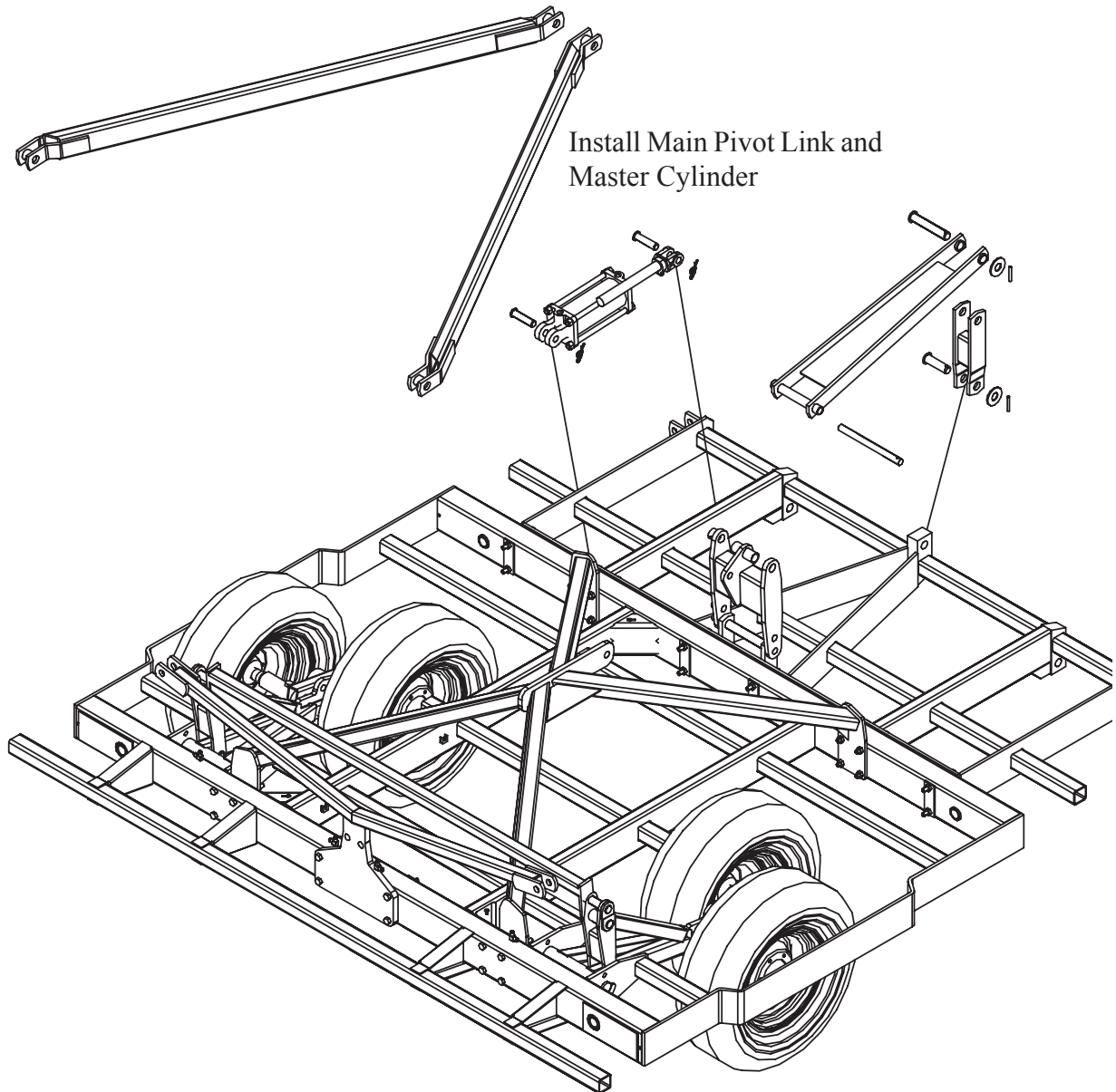


For the 13' (4m) centre, the assembly is the same only the Wheel Link Connector is longer. Attach the Wheel Link Connector to the Wheel Arm Pivot Links and A-Frame Wheel Links with the pins provided.

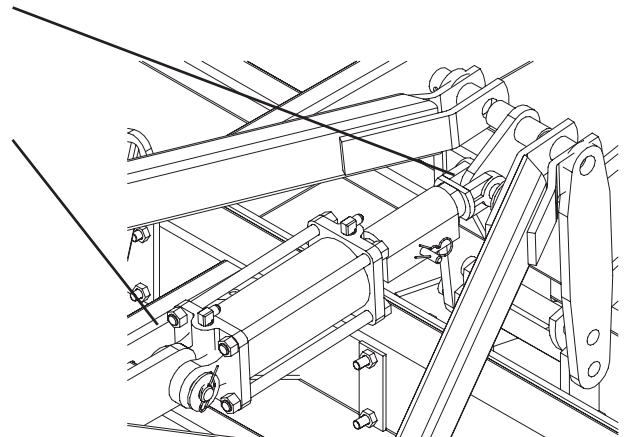


Main Pivot Link

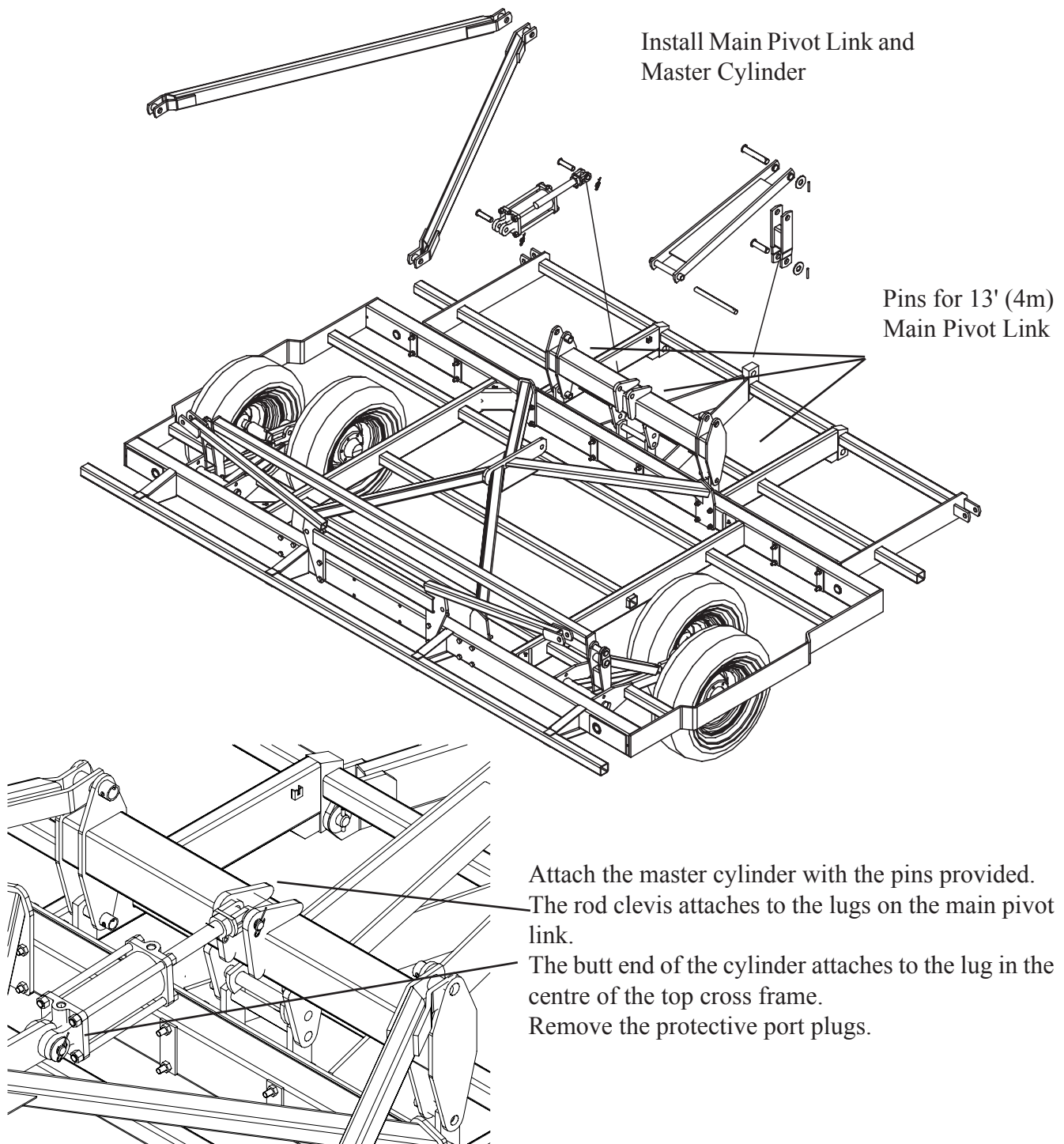
Install the 10' (3m) main pivot link with the long pin provided. When the main link is in place install the 4-1/2" x 8" master cylinder as shown in the detail below. Be sure to install the stop collar kit on the cylinder rod. Do not install the other linkages until both the main pivot link and cylinder are in place. (The pivot link may have been installed at the factory)



Attach the master cylinder with the pins provided. The rod clevis attaches to the lug on the main pivot link. The butt end of the cylinder attaches to the lug in the centre of the top cross frame. Remove the protective port plugs so the cylinder can be moved in or out during the assembly of the remaining self levelling linkages.

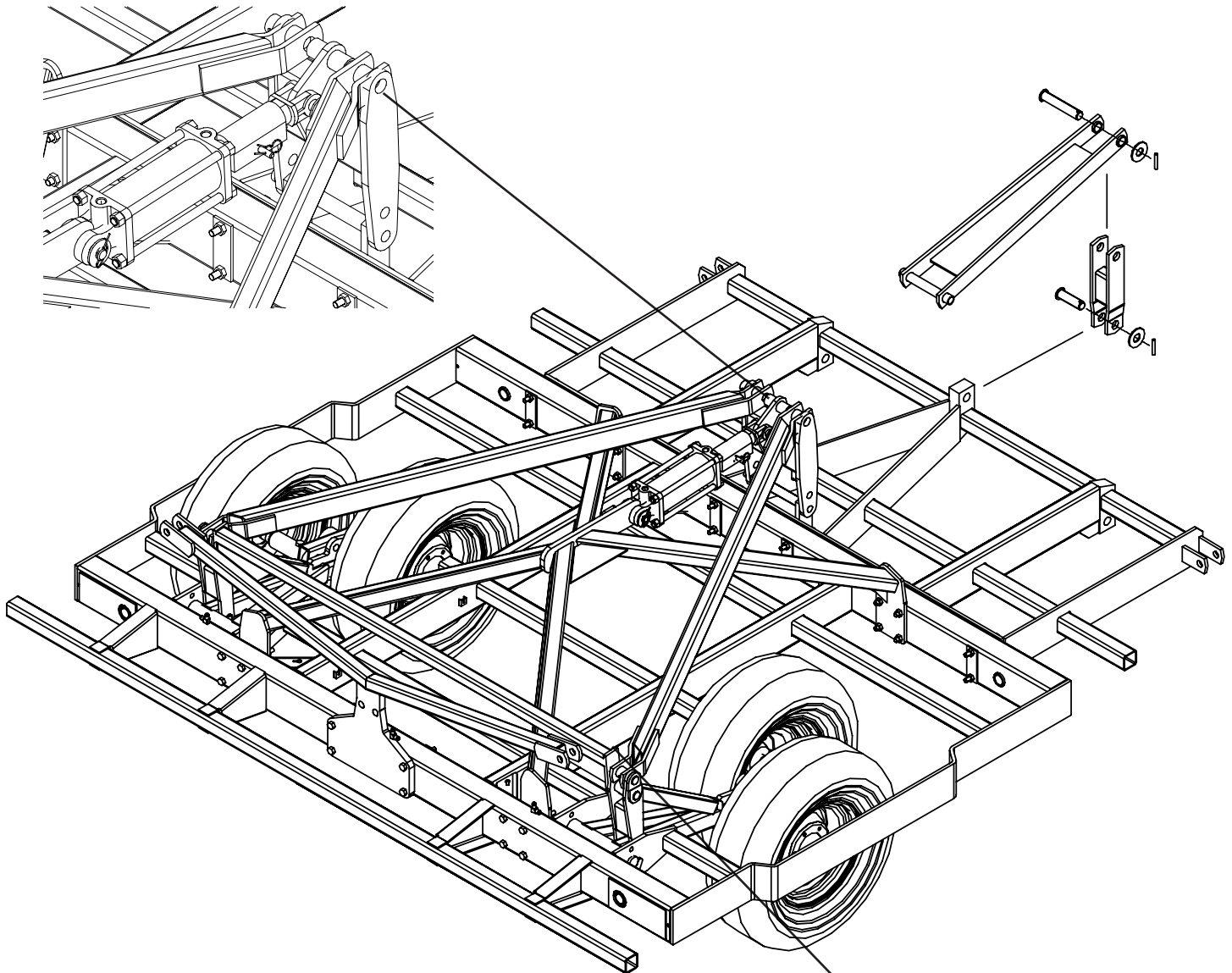


The 13' (4m) main pivot installs in much the same way as the 10' (3m) except that the 13' main pivot is larger and requires a central pivot pin and additional mounting pins to be installed in the outside pivot mounts. When the main link is in place install the 4-1/2" x 8" master cylinder as shown in the detail below. Be sure to install the stop collar kit on the cylinder rod. Do not install the other linkages until both the main pivot link and cylinder are in place.

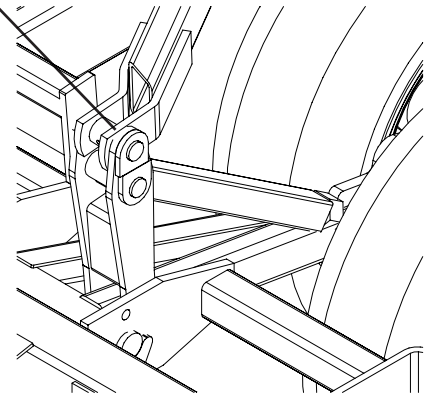


Install the A-frame wheel links on the 10' (3m) centre as shown below. The wheel links are identical so it does not matter which way you turn them.

Attach the front of the wheel linkages to the main pivot using the 1-1/4" (32mm) pin provided. It may be necessary to extend or retract the cylinder rod by hand in order to line up the holes and install the linkage pins. Take care to insert the roll pin to lock the pin in place when finished.

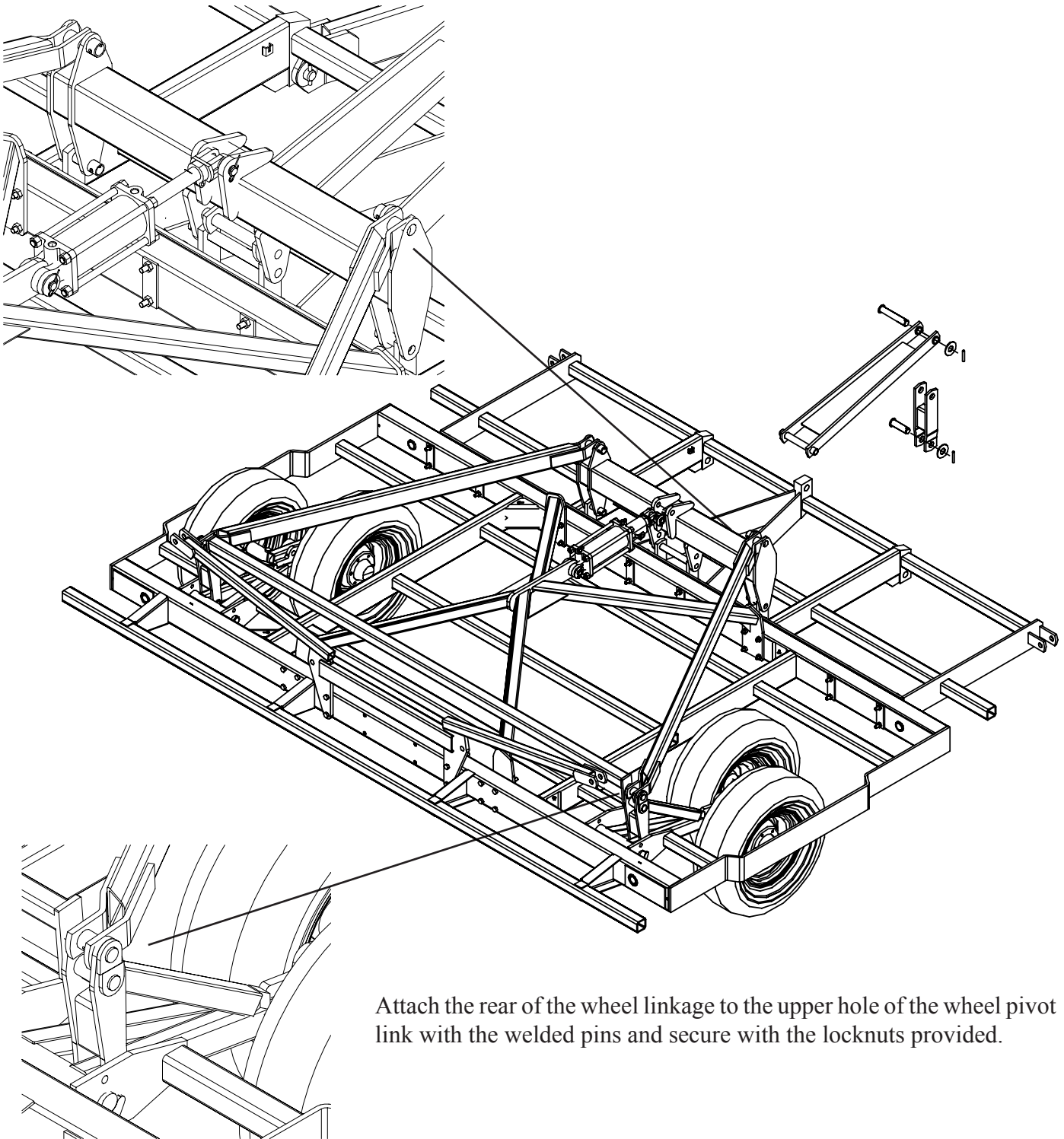


Attach the rear of the wheel linkage to the upper hole of the wheel pivot link with the welded pins and secure with the locknuts provided.



The A-Frame wheel links are the same for both the 10' and 13' centres, and are installed the same way as shown below. The only difference is that the links are spaced wider apart on the 13' centre due to the wider frame and wheel spacing.

Attach the front of the wheel linkages to the main pivot using the 1-1/4" (32mm) pins provided. It may be necessary to extend or retract the cylinder rod by hand in order to line up the holes and install the linkage pins. Take care to insert the roll pin to lock the pin in place when finished.



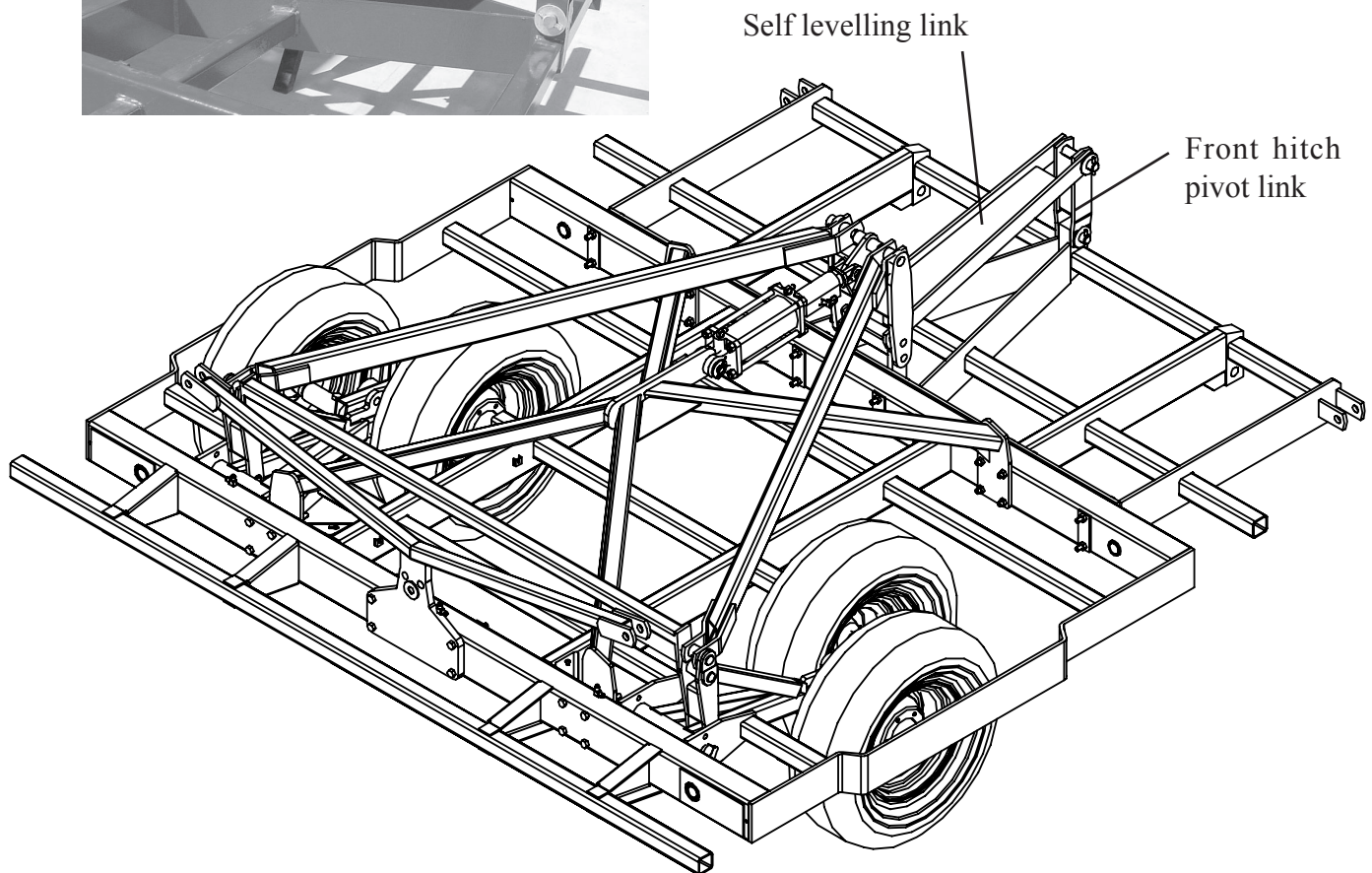
Attach the rear of the wheel linkage to the upper hole of the wheel pivot link with the welded pins and secure with the locknuts provided.

To complete the assembly of the self levelling wheel link system, install the front pivot link to the lug in the centre of the front frame. Attach the wide end of the large triangular self levelling link to the main pivot with the long pin provided and attach the narrow end to the front pivot link with the shorter pin provided. These parts are the same for both the 10' and 13' centres and are installed in the same manner.

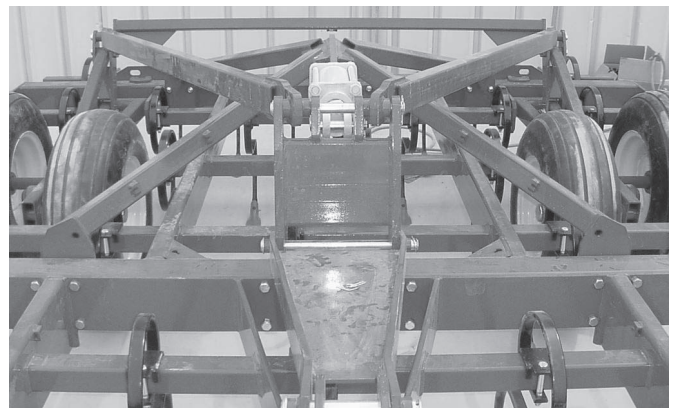
Check the assembly of the self levelling linkages and make sure all of the locking pins are installed and locked.



Detail view of front linkages on 10' (3m) centre



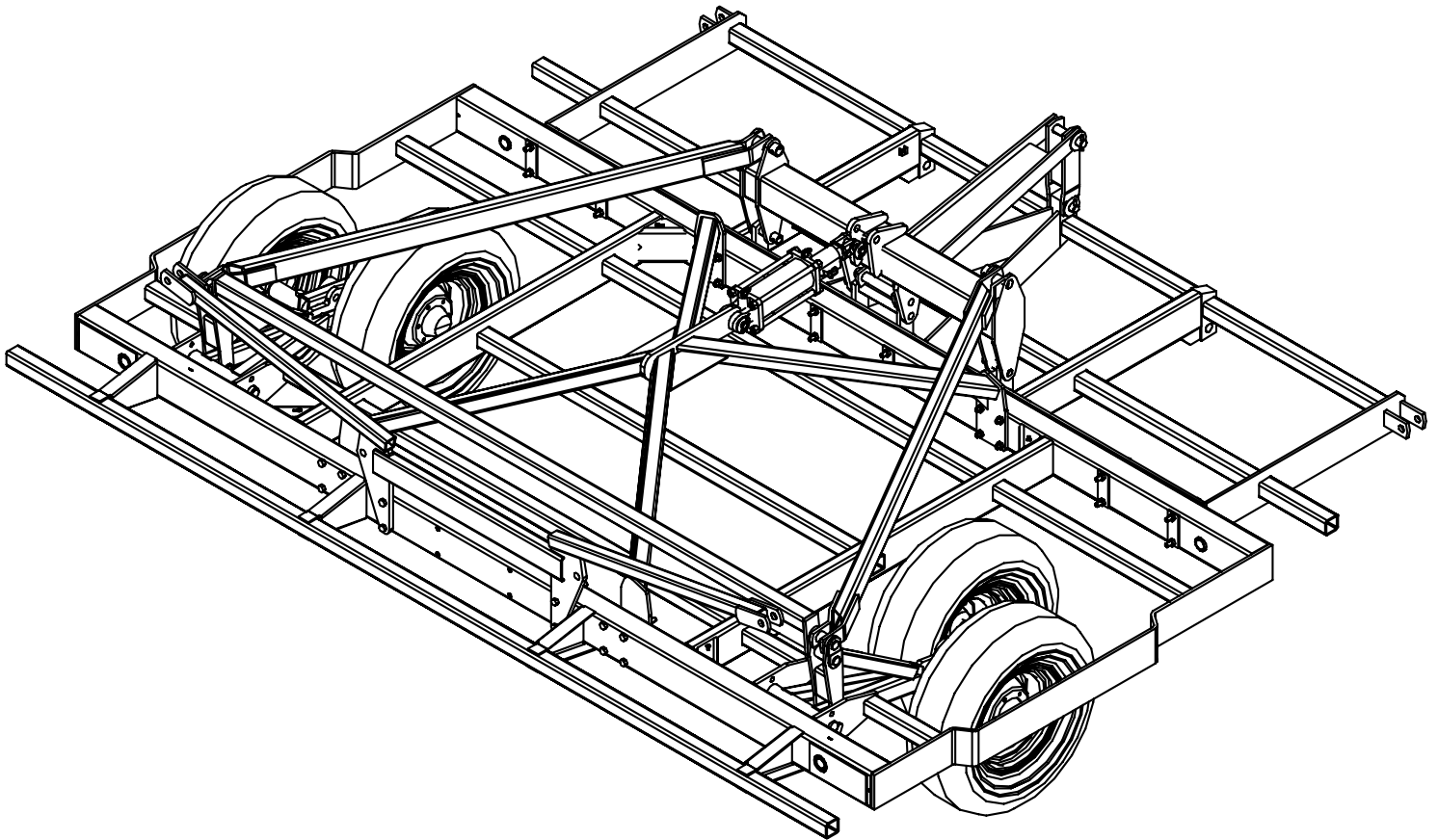
Overview of completed 10' (3m) self levelling linkage system.



The diagram below shows the completed 13' (4m) centre frame and self levelling wheel lift linkage assembly.

Take care to go over the assembly of the centre section and linkage system to make sure that all nuts and bolts are installed and tightened.

Check all pin connections and make sure the roll pins or clip pins are installed and locked.



If there is enough of room in the assembly area, the hitch can be assembled to the centre section now. However if space is limited, the draw hitch can be assembled and attached later after the wings are assembled and attached.

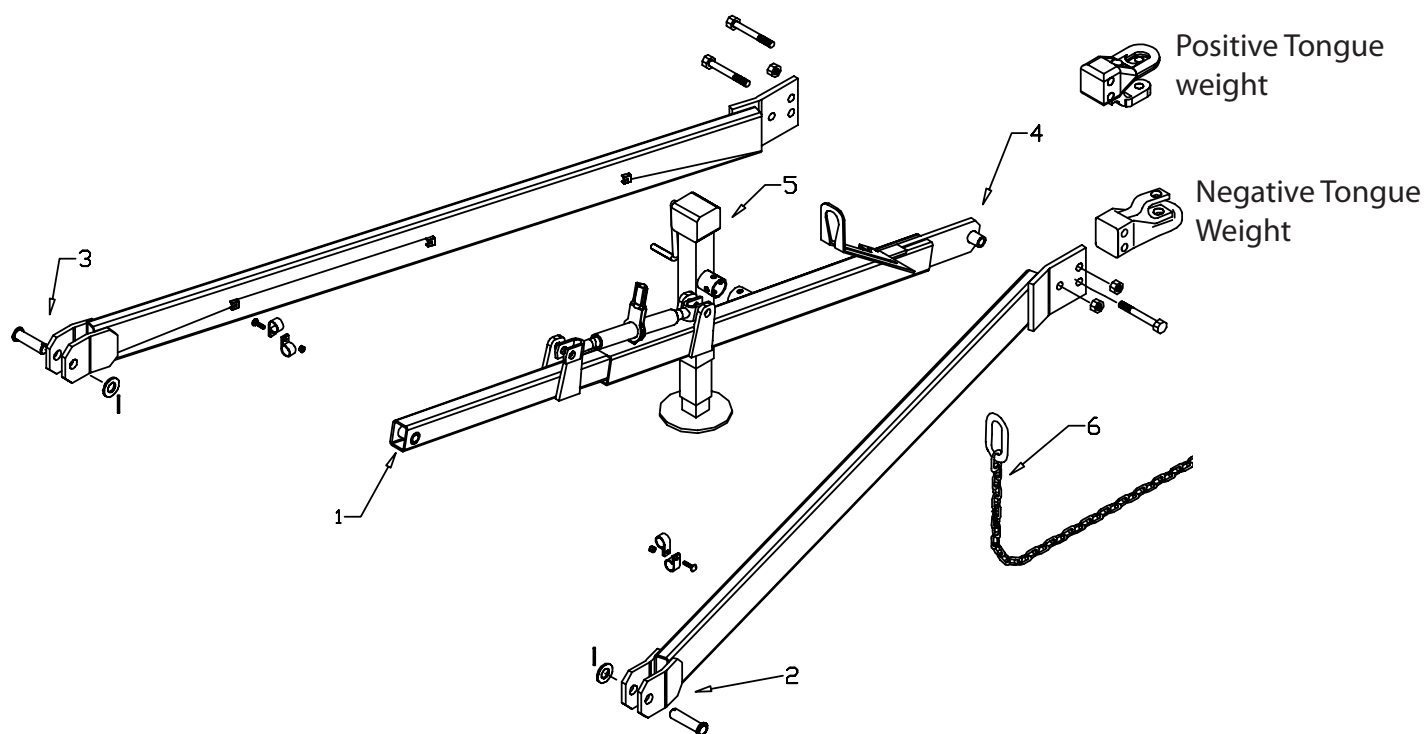
The hitch must be attached prior to installing the hydraulic lines and preparing the cultivator to be raised and folded for transport.

Hitch Assembly

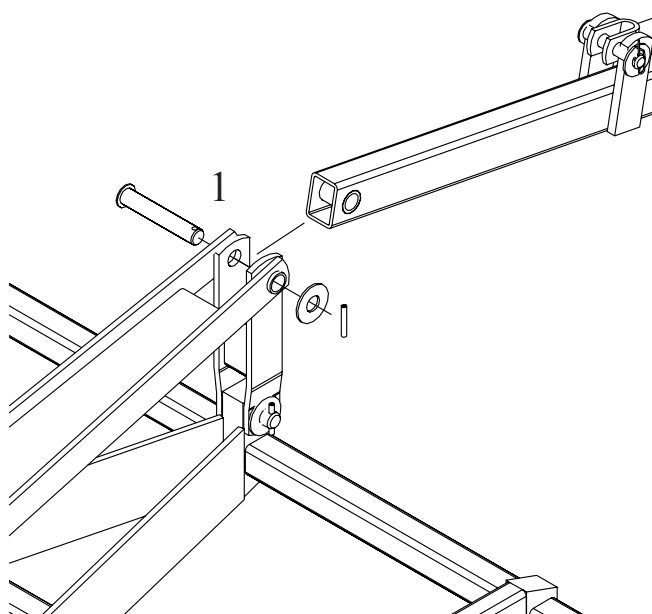
The draw hitch components are identical for both the 10' and 13' centre sections and follow the same order of assembly as shown on the numbered diagram below.

Gather the components and begin assembling the hitch with the hardware described in the spare parts list.

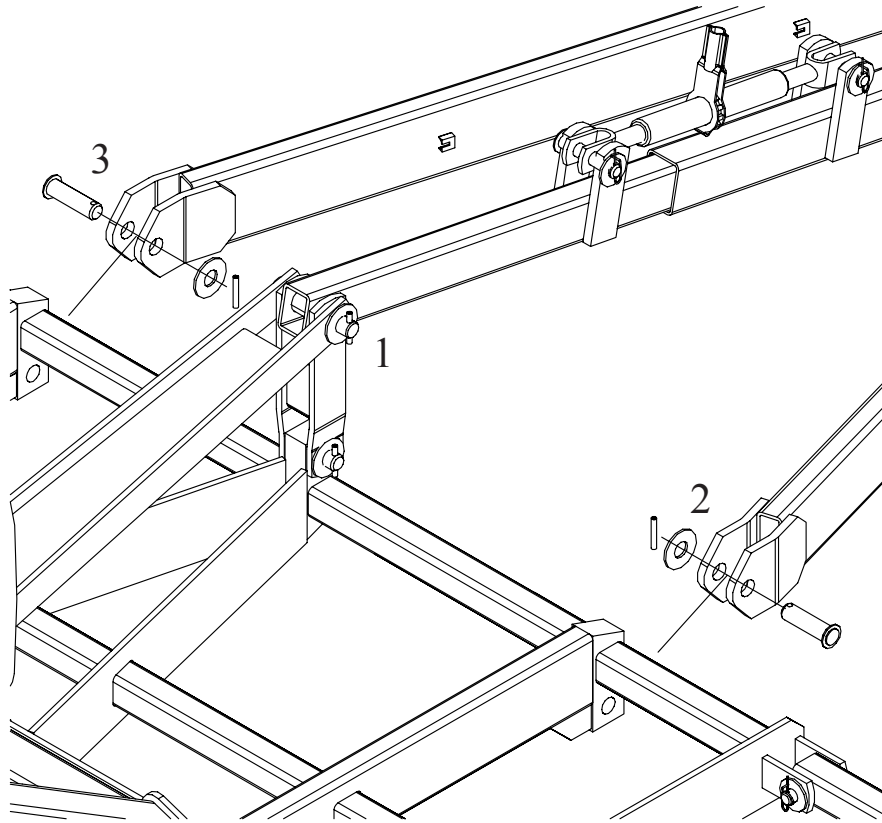
Follow the numbers for the order of assembly on the diagram below and make the connections with the pins and bolts provided.



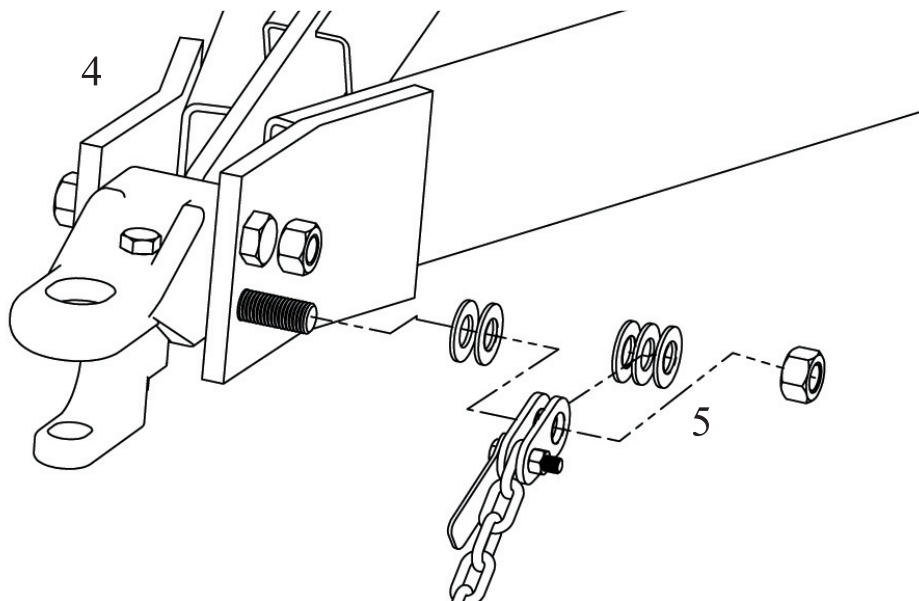
The hitch top link, pivot link and self levelling link are all connected with the same pivot pin at position 1 as shown below. To do this you will have to remove the lock pin and slide the pin to one side to allow the hitch top link to be connected. The top link can be lengthened or shortened as necessary to position the hitch at the tractor drawbar height for easier assembly.



After connecting the hitch top link at position 1, attach the hitch side members with the 1-1/2" pins with washers and roll pins at position 2 and 3. The side tubes are both the same and can be flipped either way to make the left and right side member.



As shown in step 4 below, connect the hitch tubes together at the front by inserting the bolts from opposite sides. To complete the hitch assembly in step 5, add the spacer washers and mount the safety tow chain as shown below. The hook end is for connecting the chain to the tractor.



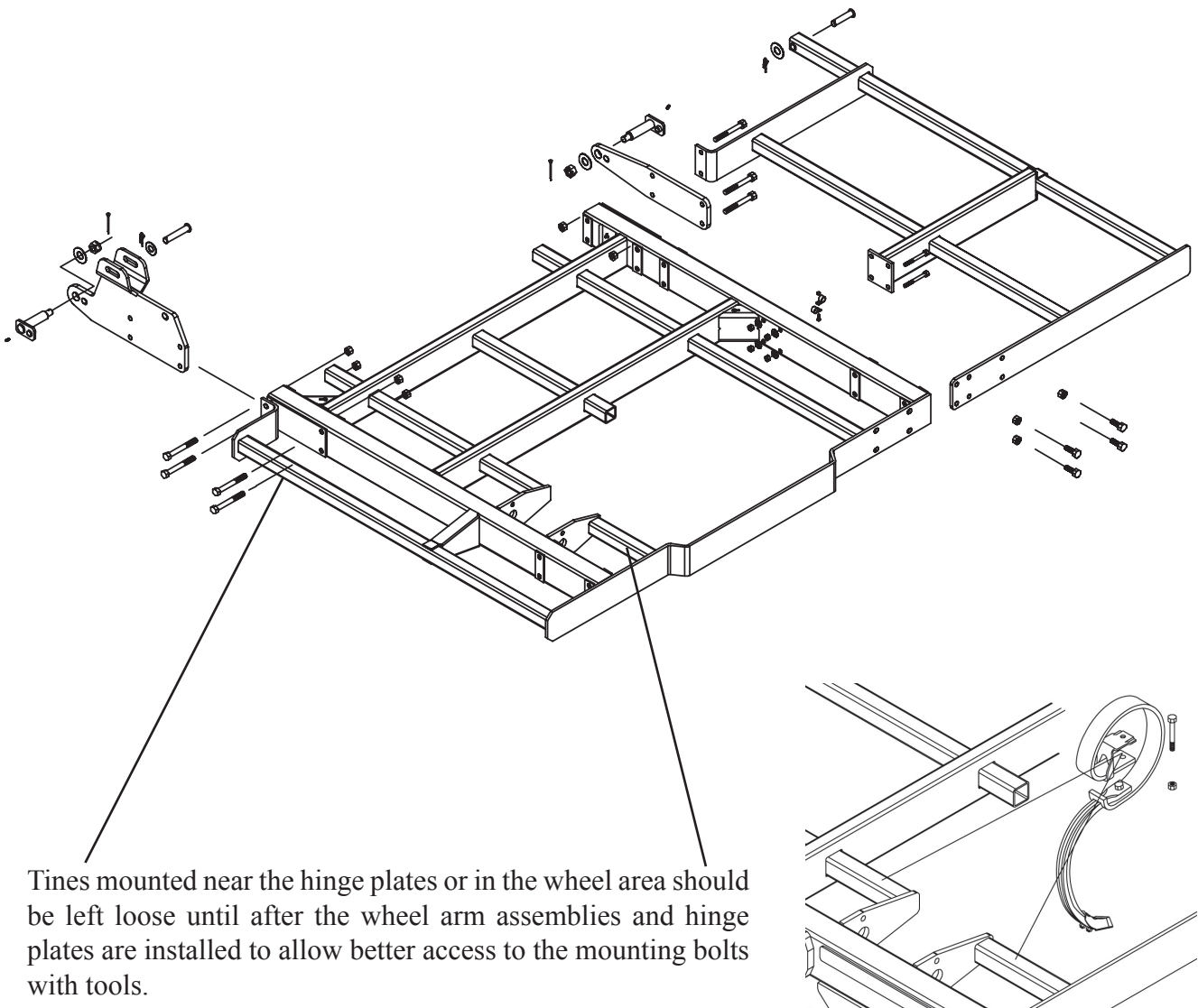
Note: The clevis casting should have the heavy side down for negative tongue weight and the heavy side up if positive tongue weight this varies with harrow attachments.

Wing Assembly

Gather the components for the wing frames and assemble using the hardware illustrated in the parts list booklet. The wing frame sections are the same for both 10' (3m) and 13' (4m) centre machines. Please note that there are no right or left wing frame components. Therefore if you assemble the right wing first as shown below, you will need to flip the frames over opposite to the diagram below to assemble the left wing.

Mark the tine pattern on the wing frame tubes according to the locations given for each wing frame section in the supplied tine layout book by hooking the tape measure on the side marked "0" and measuring across the frame as you did for the centre section.

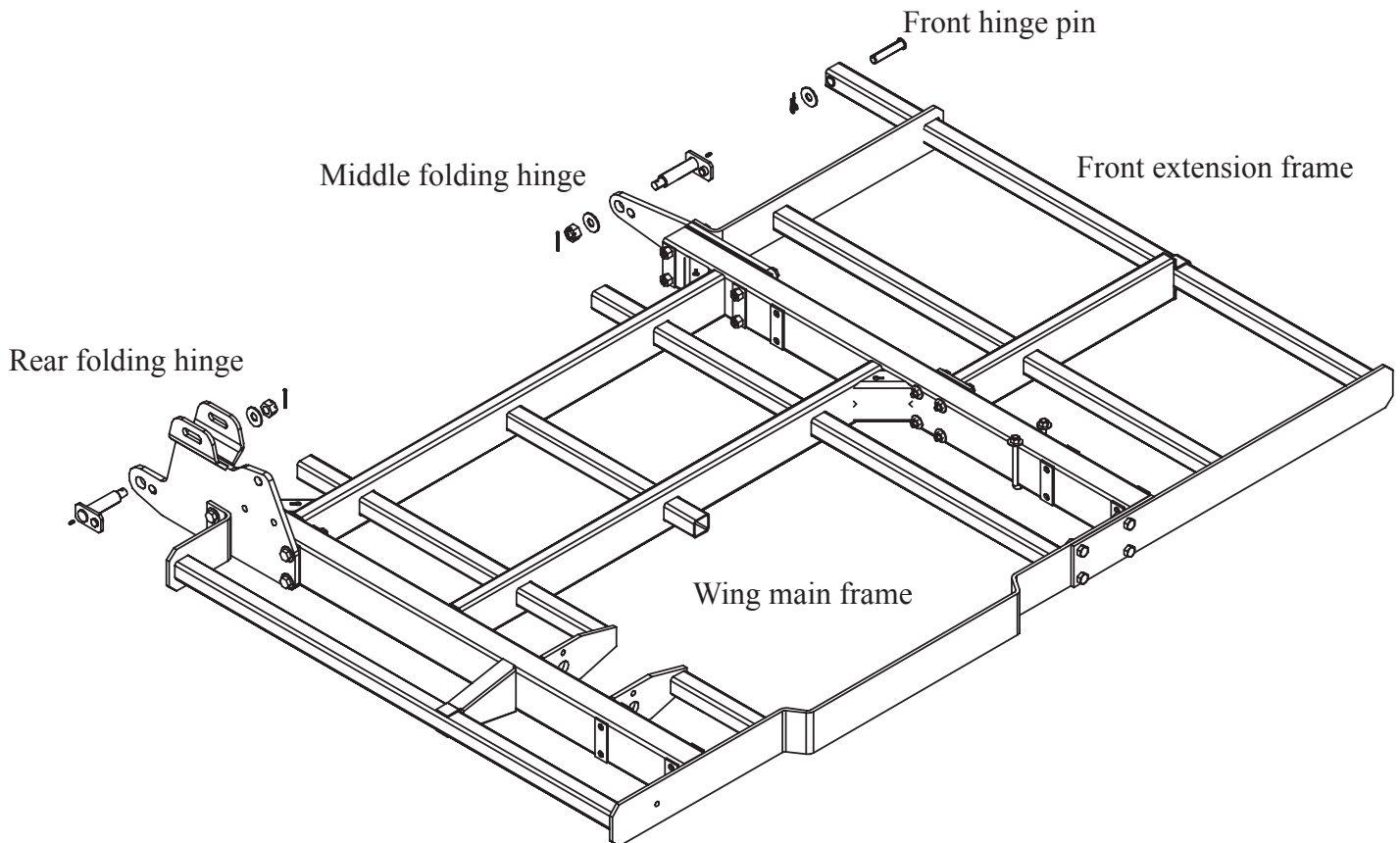
The frames should be placed on steel support stands during assembly and mounting of the tines, then carefully lowered to the ground to rest on the tines for assembly of the wheel components. The assembly diagrams do not show tines installed on the frames for easier viewing of the components. You may choose to assemble the frames first and mount tines later, but generally you will find it is easier to mount the tines as you assemble the frame sections.



Tines mounted near the hinge plates or in the wheel area should be left loose until after the wheel arm assemblies and hinge plates are installed to allow better access to the mounting bolts with tools.

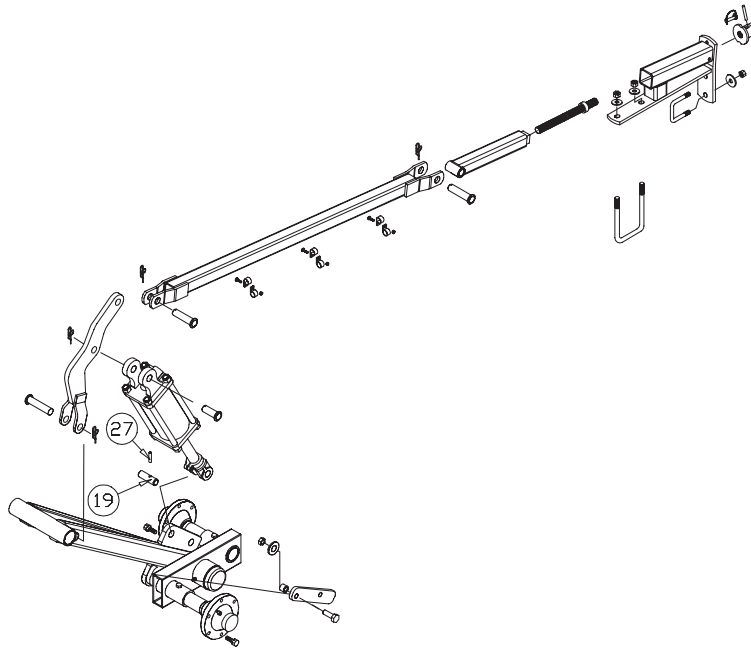
Folding Hinges

Install the front and rear folding hinges to the frames at the same time as you assemble the wing frames. The hinge pins and fold cylinder pins are installed later when connecting the wings to the centre section. Take care to leave the nuts and bolts loose at the hinges as it makes it easier to align the holes when attaching the wings to the centre section.

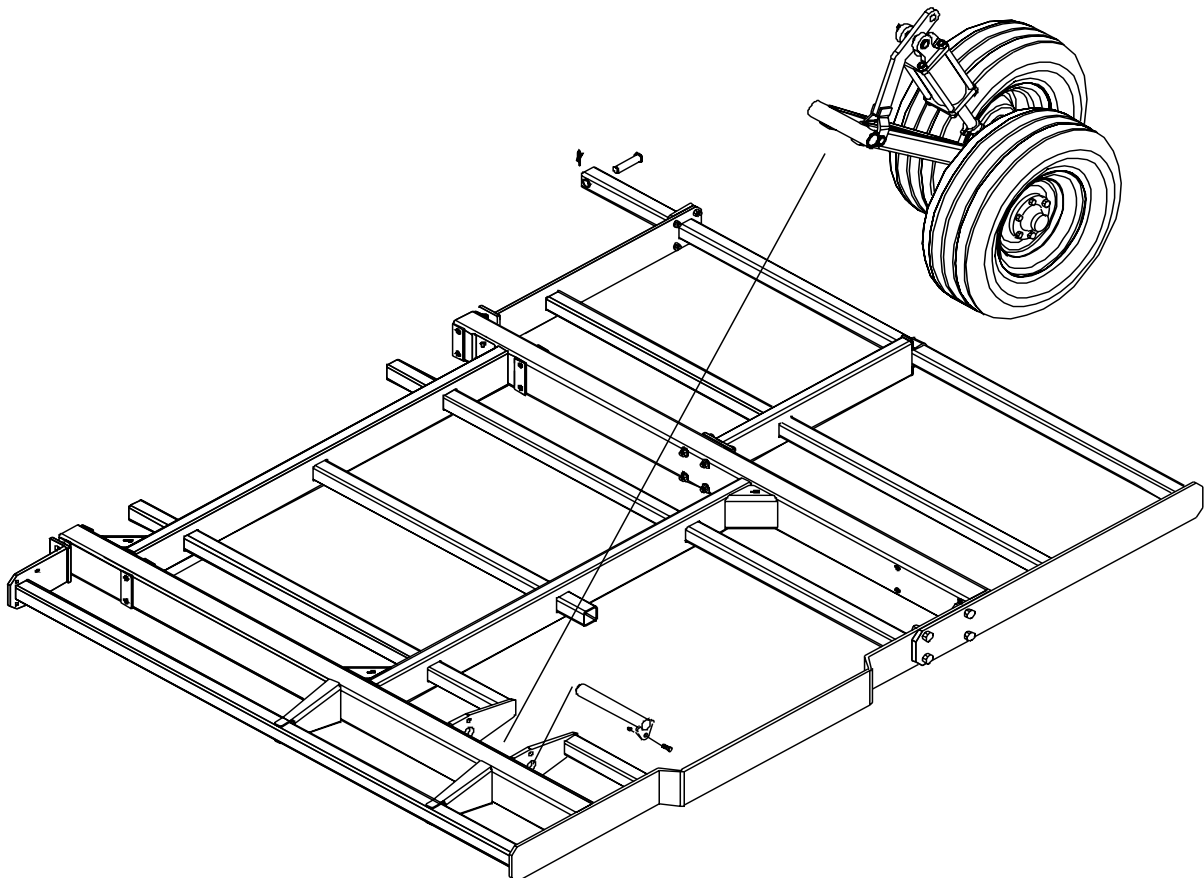


Wheel & Hub Installation

When the wing frame is fully assembled and lowered to the ground resting on the tines, gather the components for the wing tandem wheel and wheel adjustment linkages.



Mount the wheels on the hubs and then lift the complete tandem wheel assembly into the wing frame. Apply a little grease or machine oil to the axle pin to ease assembly and then insert the pin through the holes in the wing frame and wheel arm. This step may have been completed at the factory prior to shipping.

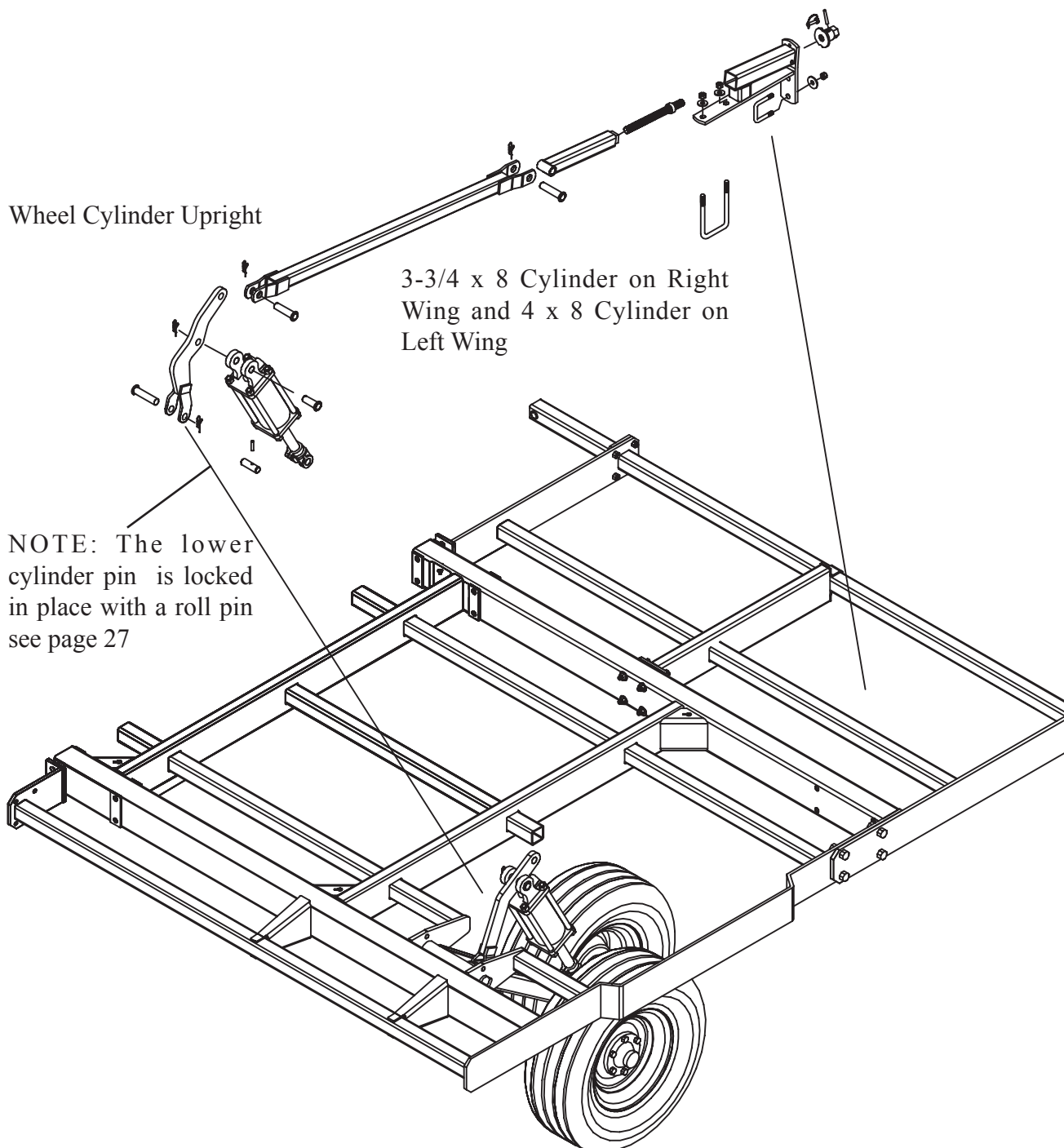


Mount the wing wheel tower and wheel lift cylinder with the pins, bolts and nuts described in the parts list. The wheel cylinder upright attaches to the upper hole in the wheelarm tube with the pin and clip pin supplied.

Note that the wing wheel lift cylinders are different sizes. One is 4 x 8 the other is 3-3/4 x 8.

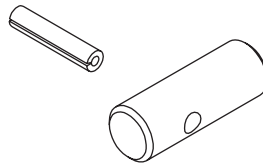
Check the hydraulic layout in order to make sure you install the cylinders on the correct side of the machine. The 4 x 8 cylinder is installed on the left wing and the 3-3/4 x 8 cylinder is installed on the right wing as shown below. The ports on both cylinders should face to the front of the machine.

The butt end or top of the cylinder is connected to the wheel upright bar with one of the pins and clip pins supplied. The rod end clevis connects to the lug on the lower end of the wheel arm so the cylinder extends and retracts with the rod pointing down. The clevis pin is special and has roll pin to secure it in place, see next page for details.

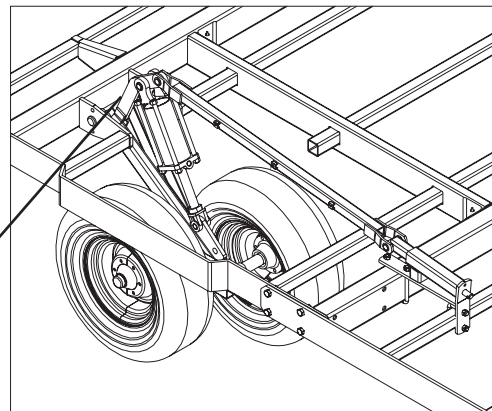
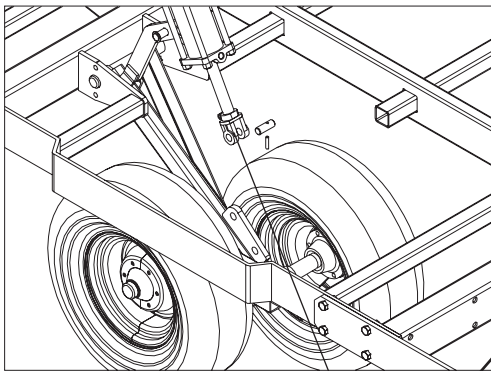


Wing Cylinder Pins

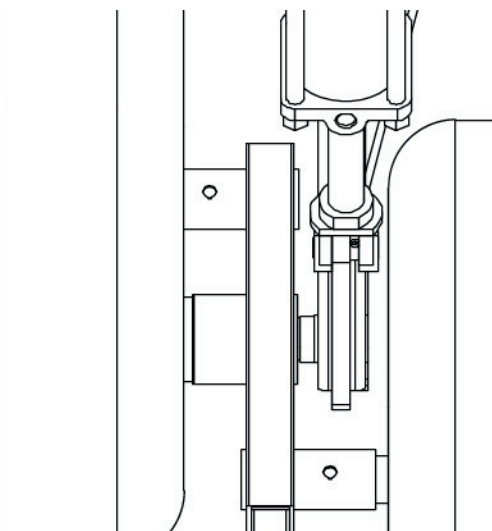
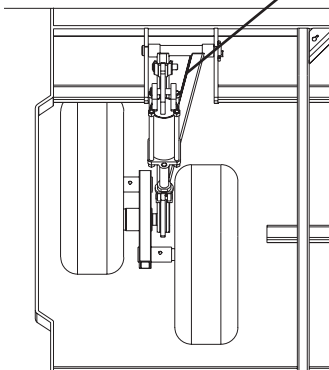
Install the wing cylinder pin such that it keeps the cylinder away from the frame as shown.



Wing Cylinder Pin
shown with roll pin



Place wing cylinder pin in this location



The roll pin fits inside
the clevis keeping the
clevis away from the
walking tandem arm.

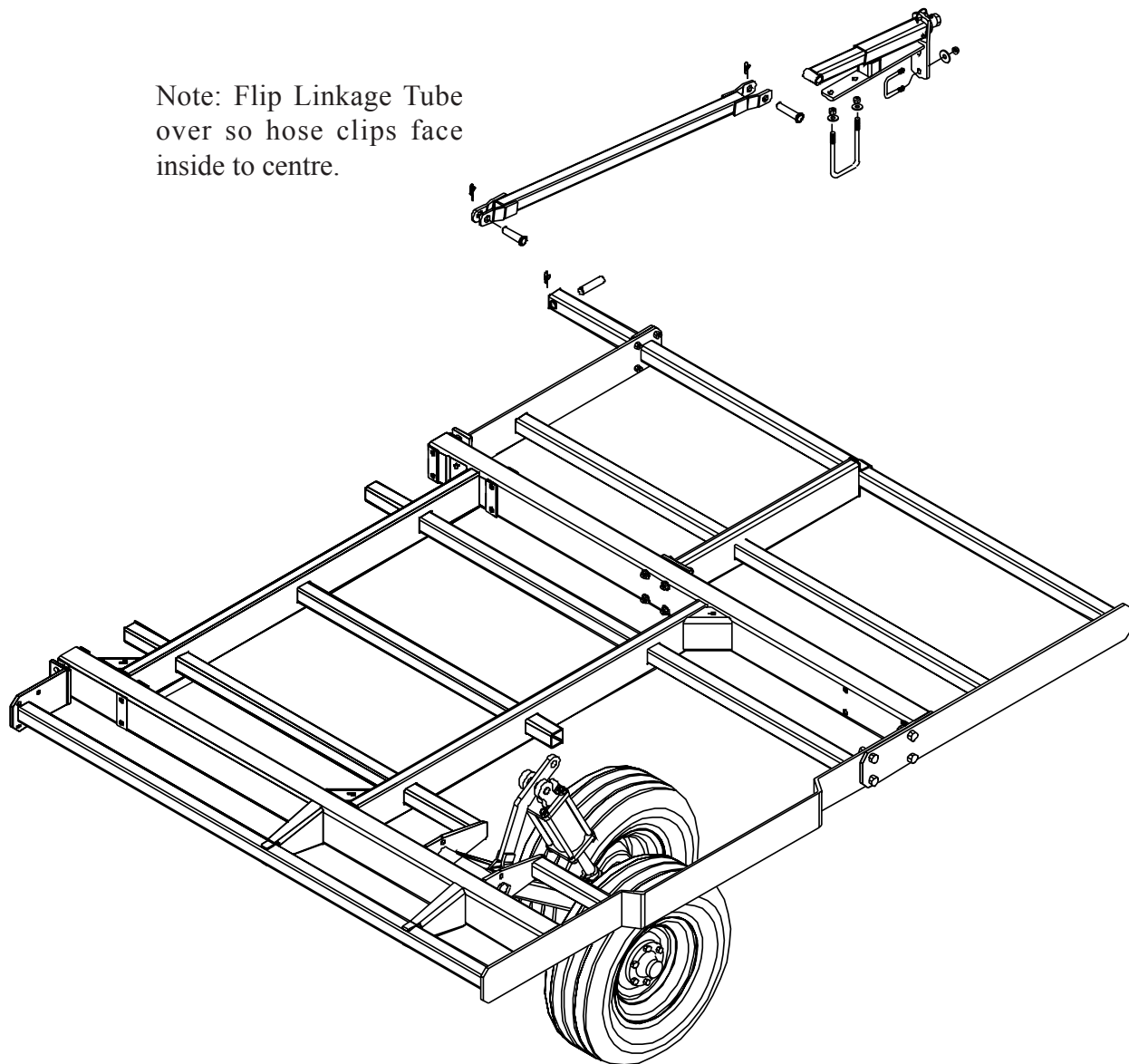
Enlargement of picture to left

Wheel Linkage Adjustment

Install the wing wheel adjustment linkage with the pins, locking clip pins and U-bolts supplied.

The wheel linkage tube should be mounted with the hose brackets on the inside facing the center of the machine as noted below

Take care to keep the linkages straight when tightening the U-Bolts so the adjustment slider does not bind when adjusted in and out.



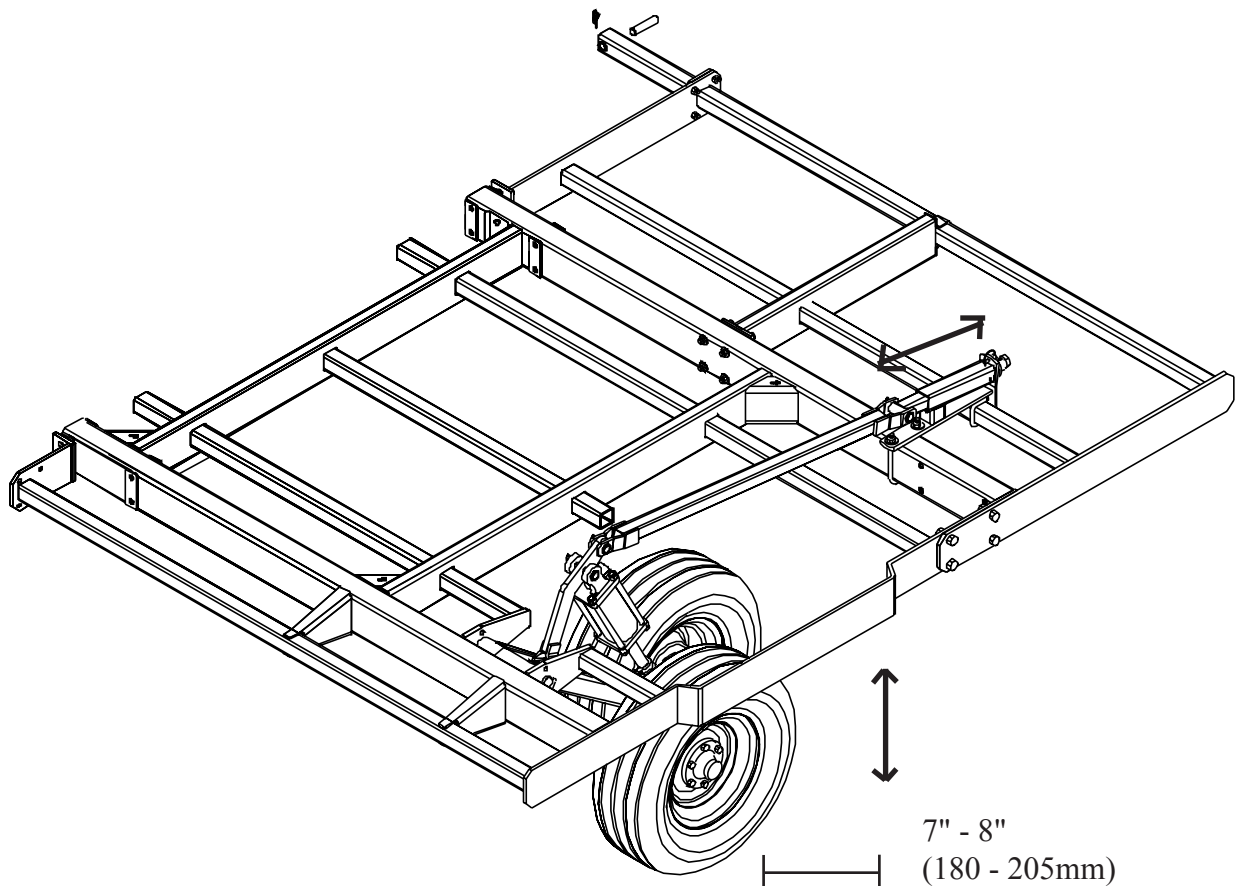
The adjustment linkage is used to adjust the wings so they are level with the centre section when working in the field.

To adjust the linkage, remove the clip pin and turn the adjustment casting clockwise or counter clockwise to shorten or lengthen the linkage. This in turn will raise or lower the wing wheel arm position so the wings will run level at the same depth as the centre section. The adjustment can be made with either a large adjustable wrench, or 1-1/2" socket, or a 3/4" drive socket wrench handle only.

More information on the proper adjustment of these linkages is covered in the Owners Manual under Field Settings and Adjustments.

Initially the adjustment slider can be set at 7" - 8" or (180 to 205mm). The distance is measured from the edge of the outer housing tube to the centre of the pin.

Take care to replace the clip lock pin so the slider adjustment does not move from the set position.



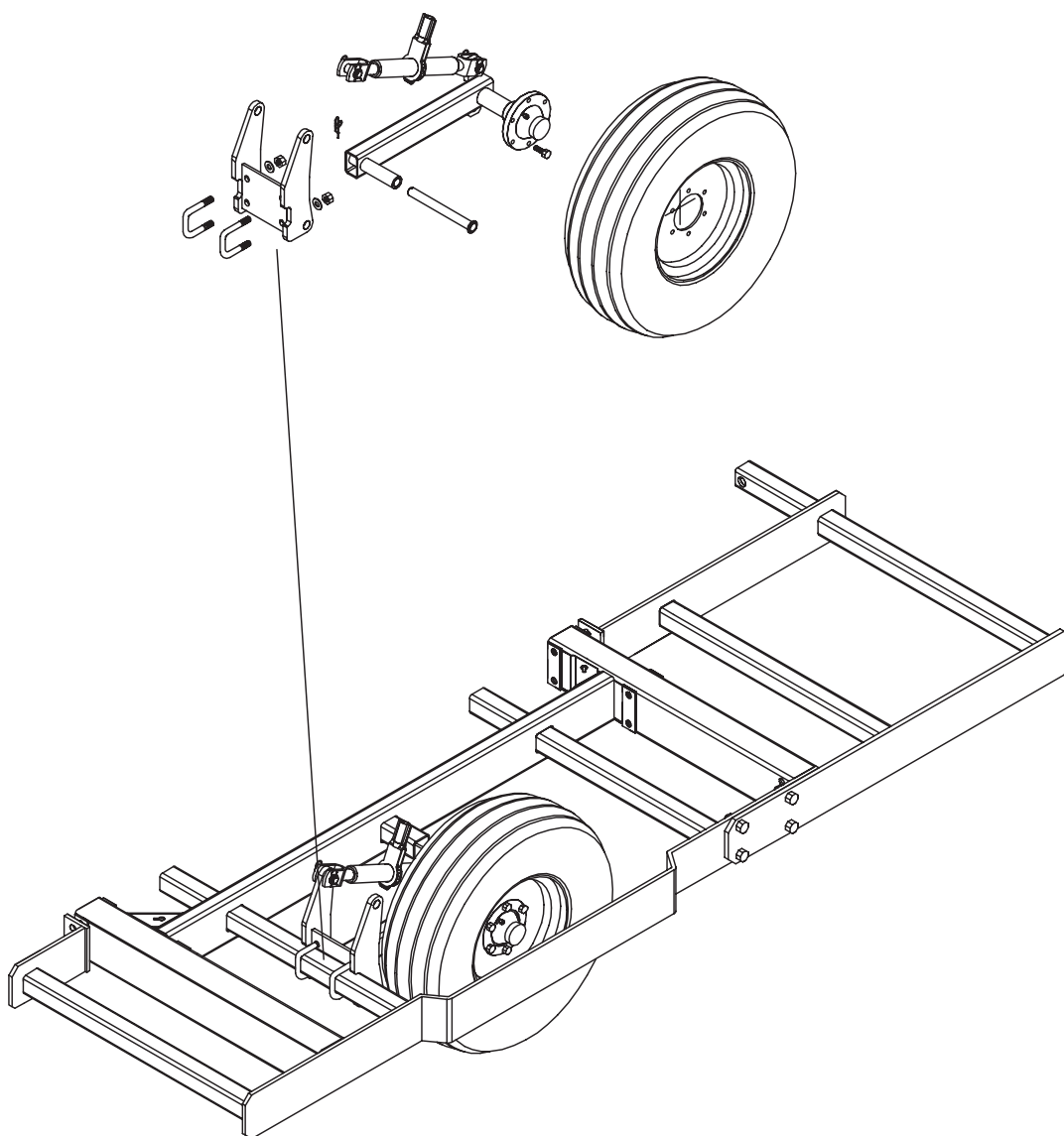
Mechanical Adjust Wheels on 3'3" (1.0m) Wings:

The mechanical adjusting wheel is used as the wing depth wheel on the 16' (5m) model cultivator with 1m wings. It is also available as an accessory wing gauge wheel on all other models.

On the small 3'3" (1.0m) Wing, the wheel is mounted inside the wing frame to the toolbar as shown below. It should be assembled with the wheel mounted to the outside and positioned to run about 1-1/2 to 2" away from the outside of the wing.

The mounting bracket and wheel arm are designed to allow the wheel to be assembled for right or left hand use by turning the wheel arm over and mounting the turnbuckle adjuster on the opposite side of the mounting bracket. The diagram below shows the wheel assembled for the right side wing.

Adjustment of the working depth of the wing is accomplished using the mechanical ratchet on the turnbuckle. An extension handle is provided for easier adjustment of the mechanical ratchet.



Mechanical Adjust Wheel used as Front Gauge Wheel:

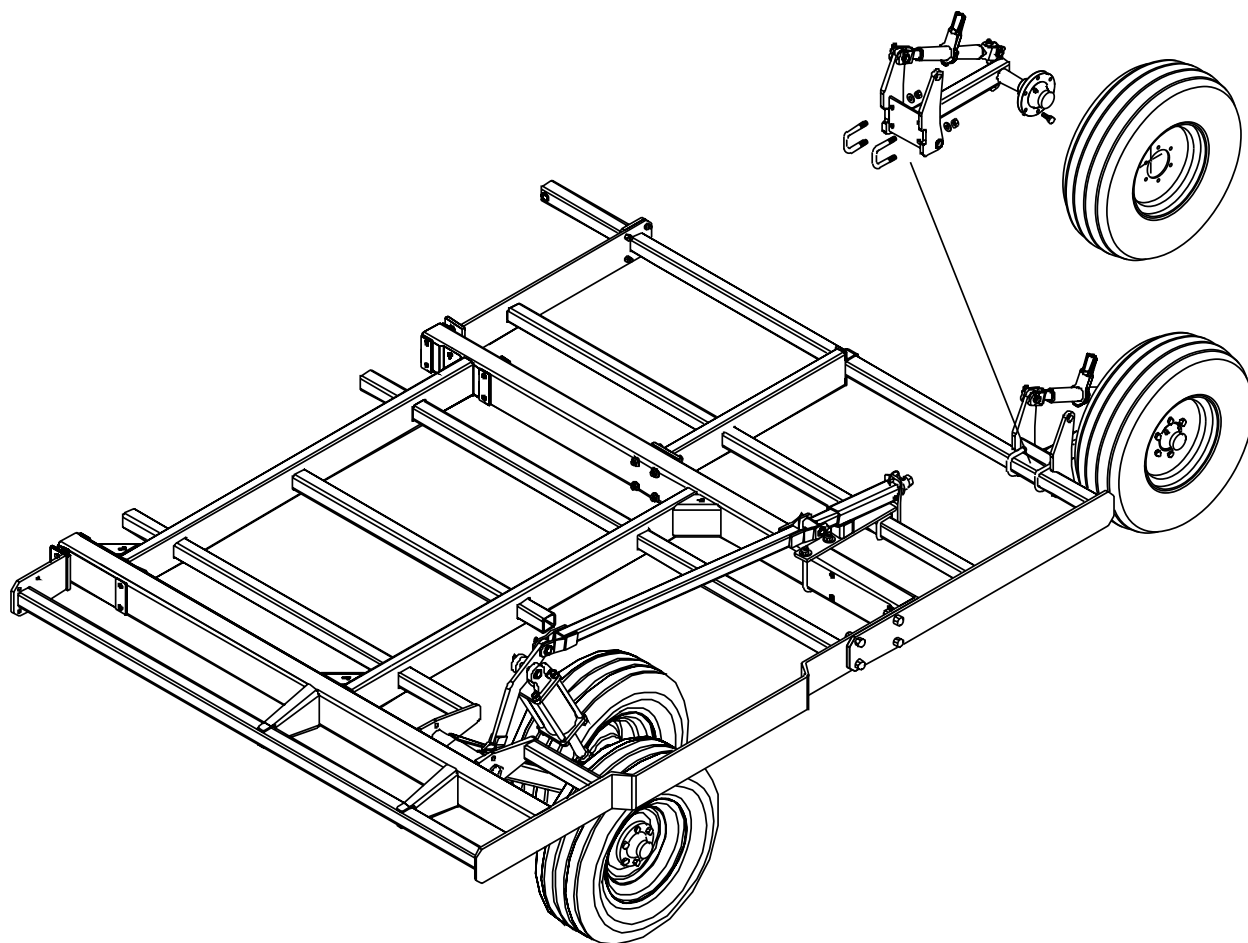
When used as a front gauge wheel the gauge wheel mounting bracket is attached to the front toolbar with the U-bolts provided. Again, the tire is usually mounted to the outside and positioned near the front corner of the machine. The exact position will vary depending on the tine pattern but the wheel should not stick out past the outside of the wing.

The mounting bracket and wheelarm are designed to allow the wheel to be assembled for right or left hand use by turning the wheel arm over and mounting the turnbuckle adjuster on the opposite side of the mounting bracket. The diagram below shows the wheel assembled for the right side wing.

Adjustment of the gauge wheel is accomplished using the mechanical ratchet on the turnbuckle. An extension handle is provided for easier adjustment of the mechanical ratchet.

Instructions for adjusting wheels and setting the working depth is explained in detail in the Cultivator Owners Manual. When working in the field, the gauge wheels should only have light contact with the ground in order to hold the depth accuracy of the wing and prevent it from bouncing.

As a preliminary setting the wheels can be adjusted about 2" from the ground when the cultivator is resting on the tines.

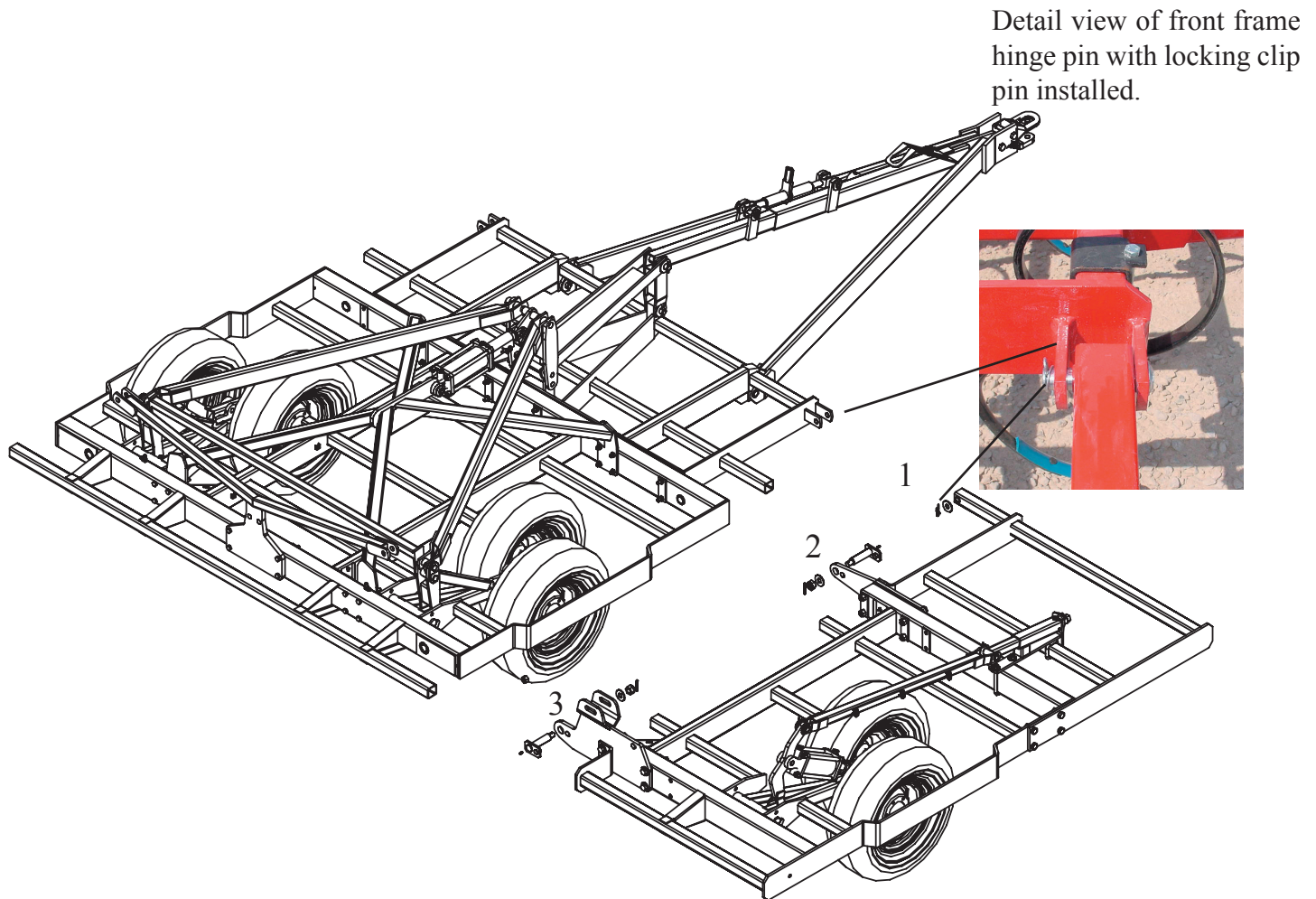


Final Assembly Centre Section and Wings:

Move the wing assemblies into position beside the centre section.

Install the wing hinge pins according to step 1, 2 & 3 in the diagram below. The hinge plate bolts should be loose to allow easier alignment and insertion of the hinge pins. The main hinge pins are designed to lock in position and must be turned so that when they are inserted through the hinge plates and centre frame, the pin stub locks into the second hole in the hinge plate before the washer, castle nut and cotter pin are installed.

The front toolbar also acts as a 3rd hinge to provide greater stability for the front frame extension. Secure the front toolbar hinge pins in place with the locking clip pin. When the pins are installed tighten the hinge plate bolts



Folding Cylinders 13' (4m) Centres:

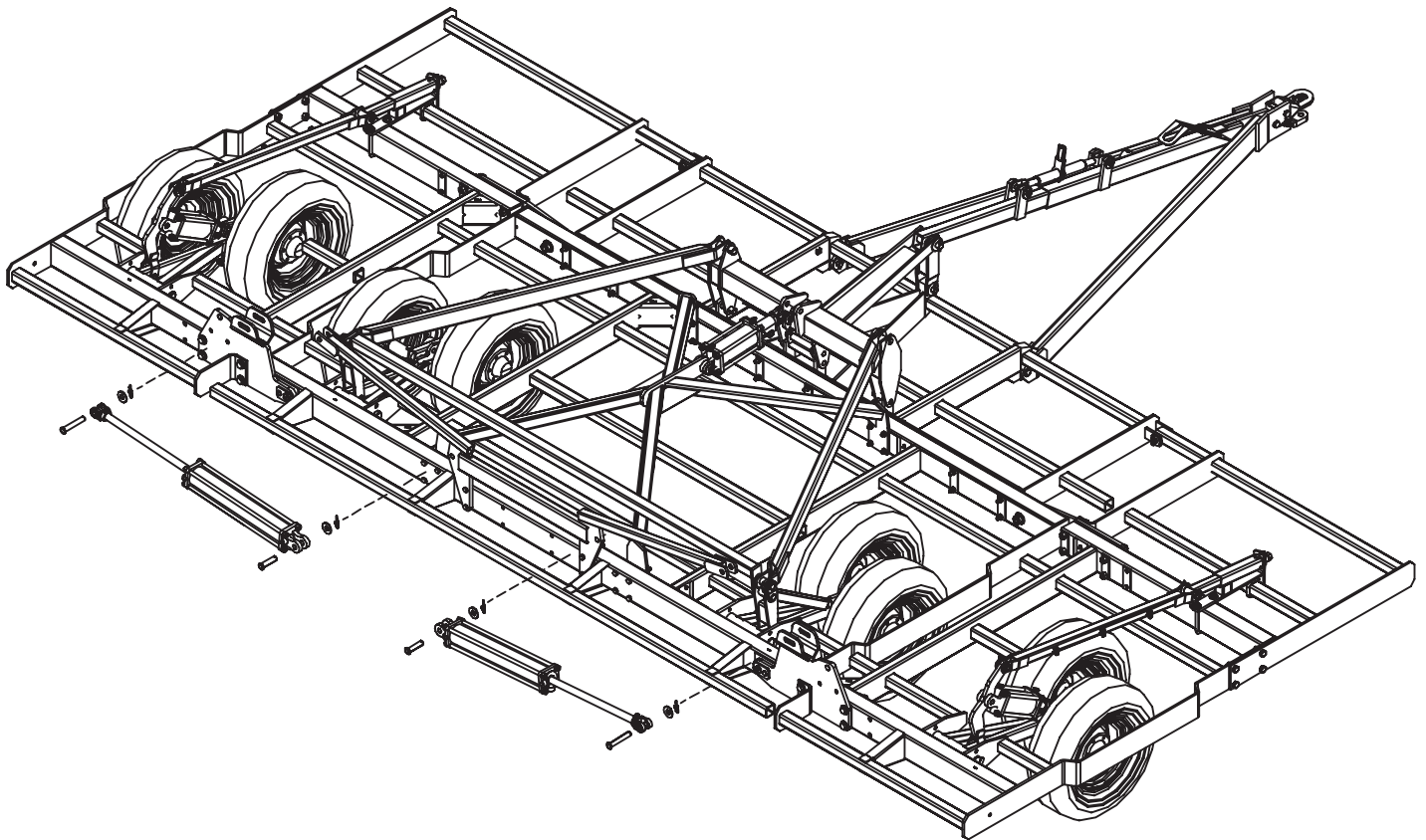
When the wings are attached to the centre section the wing fold cylinders with hydraulic hose lines and fittings can be installed.

The hydraulic assembly is different for the 13' (4m) centre machines so make sure you have the correct hose layout diagram for the machine model you are assembling.

The most noticeable difference is that the models with 13' (4m) centres have additional fold lock brackets that must be installed in order to lock the wings in the folded position for transport.

The other difference is that the folding cylinders are installed so the cylinder rods extend and retract pointing away from the centre. The cylinder butt clevis are attached to the centre fold plate and the rod clevis are attached to the slot in the folding hinge brackets on the wings. (This allows the wing to float up and down in the field when the cylinders are fully extended.)

Install the rear folding brackets and cylinders as shown on the assembly diagram below and follow the Hydraulic Hose layouts carefully for proper assembly of the hoses and fittings shown later in this booklet.



Hydraulic Assembly Information:

For proper installation of the hydraulic hoses and fittings refer to the hose layout diagram provided in the spare parts manual. The hydraulic hoses and fittings are provided in the hose kit. Secure the hoses to the frames with the hose clamps, carriage bolts and locknuts provided.

IMPORTANT NOTE:

DO NOT PLACE HOSES ALONG FRAME IN THE ROTATIONAL PATH OF THE FOLDING HINGES AS HOSES CAN BECOME PINCHED DURING FOLDING AND UNFOLDING OF THE WINGS.

HOSES SHOULD BE BEHIND THE FRONT FRAME AND NEATLY CLAMPED SO THEY DO NOT INTERFERE WITH THE HINGES WHEN FOLDING.



KEEP HOSES LINES RUNNING ACROSS THE CULTIVATOR BEHIND THE FRAME TUBE AND NEATLY CLAMPED TO THE FRAMES WITH THE HOSE CLAMPS OR PLASTIC TIE STRAPS PROVIDED.





Charge the wheel lift hydraulics by fully extending and retracting the wheel lift hydraulic cylinders several times. Hold the hydraulic lever open at the end of the stroke to purge the air from the system.

The wheel lift cylinders are rephasing type cylinders and must be fully extended at the end of the field when turning to equalize the oil pressure across the system.

This will ensure that the cultivator raises and lowers evenly and stays at a uniform working depth when working in the field.



The wing fold cylinders must be charged with oil before attempting to fold the cultivator. Disconnect the cylinder rod clevis from the fold bracket and place a block under the cylinders as shown.

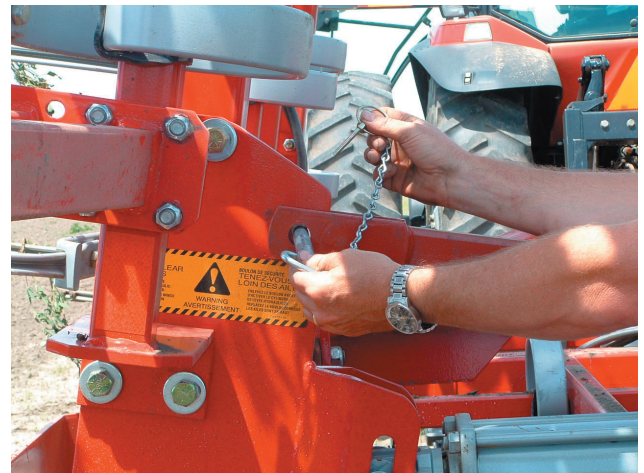
Connect the hoses to the tractor or portable hydraulic unit and stroke the wing fold cylinders in and out several times holding the lever at the end of the stroke to remove the air from the system and ensure the cylinders and hoses are full of oil. Remove the block and reconnect the cylinder to the fold bracket with the cylinder pin, washer and clip pin.



Always insert the transport lock on the master cylinder when ever the cultivator is placed in the raised position for transport, maintenance or stroage.

Secure with the lock pin and clip provided.

When the wings are raised and folded for transport, the mechanical system locks wings in transport position with the wing fold anchor shown. Proper use of the wing fold anchor will prevent the wings from falling uncontrollably during transport if a problem occurs with the hydraulic system.



Never transport the cultivator on public road ways without installing the transport safety chain and SMV sign.

See the special instruction sheet for proper placement of the cultivator identification decals and safety warning decals

Refer to the Owners Manual for further safety information before attempting to operate or service the unit

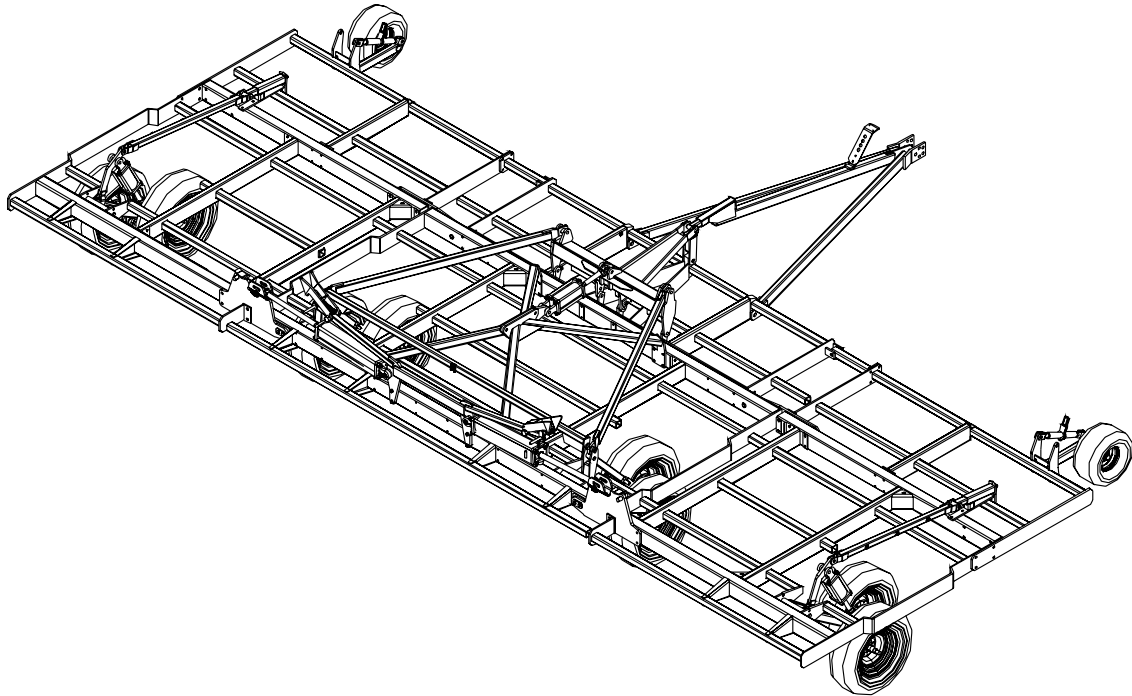


Final Inspection

When the cultivator frame is fully assembled check all nuts and bolts and secure if loose.

Double check the hose layout and hydraulic connections according to the hydraulic diagram.

Be sure to read the Owners Manual before attempting to fold or operate the cultivator. The Owners Manual provides important instructions and safety precautions that must be followed before attempting to hook up and move the cultivator after assembly.



If you have purchased optional levelling attachments such as the combi harrows shown on the cultivator below, refer to the Manual provided with the Harrow Assembly for proper installation and adjustment of the attachments.



Installing the Product Identification and Safety Decals:

1) Install the Kongskilde decals #600475237 and Vibro-Till 2900 decals #600475251 on both sides of the draw tongue and wing frames as shown.

KONGSKILDE & Vibro-Till
2900 on both sides of hitch



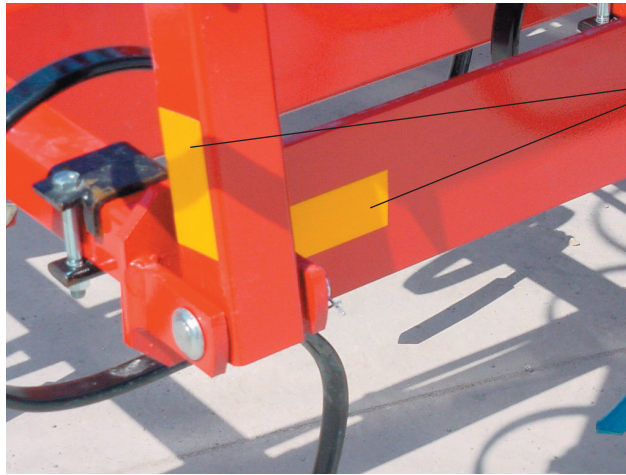
KONGSKILDE & Vibro-Till
2900 on both side of wing
frames



2) Install a Kongskilde Decal #600475237 on both sides of the centre frame side bar as shown below.



3) Install Yellow Safety Reflectors #600475131 on both front corners and sides of the 2900 centre section.



YELLOW REFLECTORS
on both front corners and side
bars of front frame.



YELLOW REFLECTOR
front view



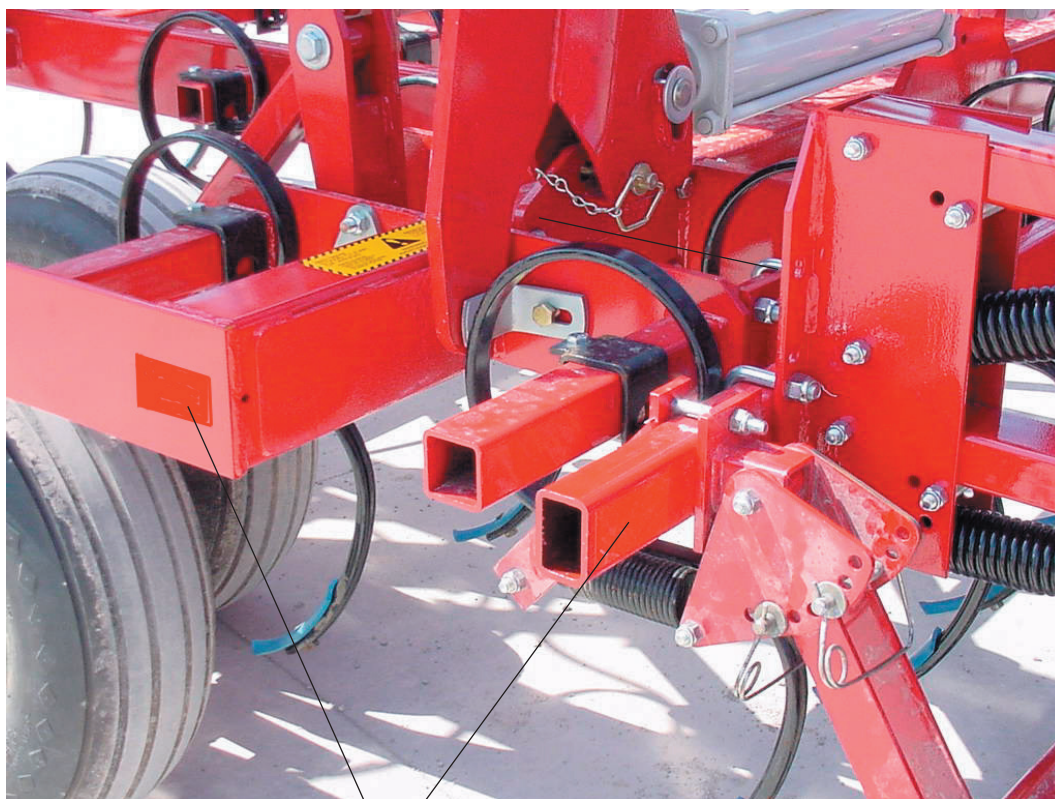
YELLOW REFLECTORS
side view

4) Install Red Safety Reflectors #600475132 on both rear fold brackets and sides of the 2900 centre section.

RED REFLECTORS on Rear Hinges and side bar



If the rear reflector position could be blocked from view by harrow mounting brackets then the reflector can be place in an alternate position on the rear corner of the toolbar to provide better visibility.

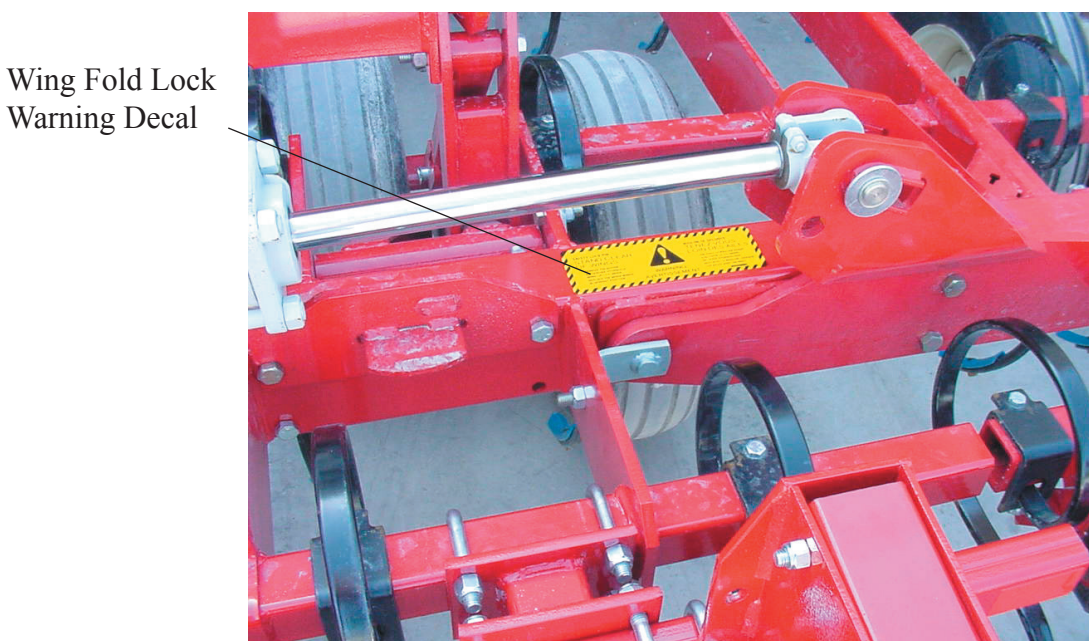


RED REFLECTORS on Rear Toolbar Tube and Side Bar

5) The 3 safety decals #600475170, 600475169 & 600475160 are located on the front frame side bar beside the serial number plate and the CE label as shown.



6) Install the Wing Fold Lock Warning decals # 600475176 on the top of the centre section frame tubes near the wing fold lock plates so it can be viewed with the wings in the folded or unfolded position as shown below.



7) Install the WING FOLD SAFETY DECALS #600475039 on the front and rear main frame tubes on the 2900 wing frames. The decals should be centred on the tube at about eye level so they can be read clearly when the wings are folded as shown below.

WING SAFETY on
front wing frame tube



WING SAFETY on
rear wing frame tube



[illegible]

