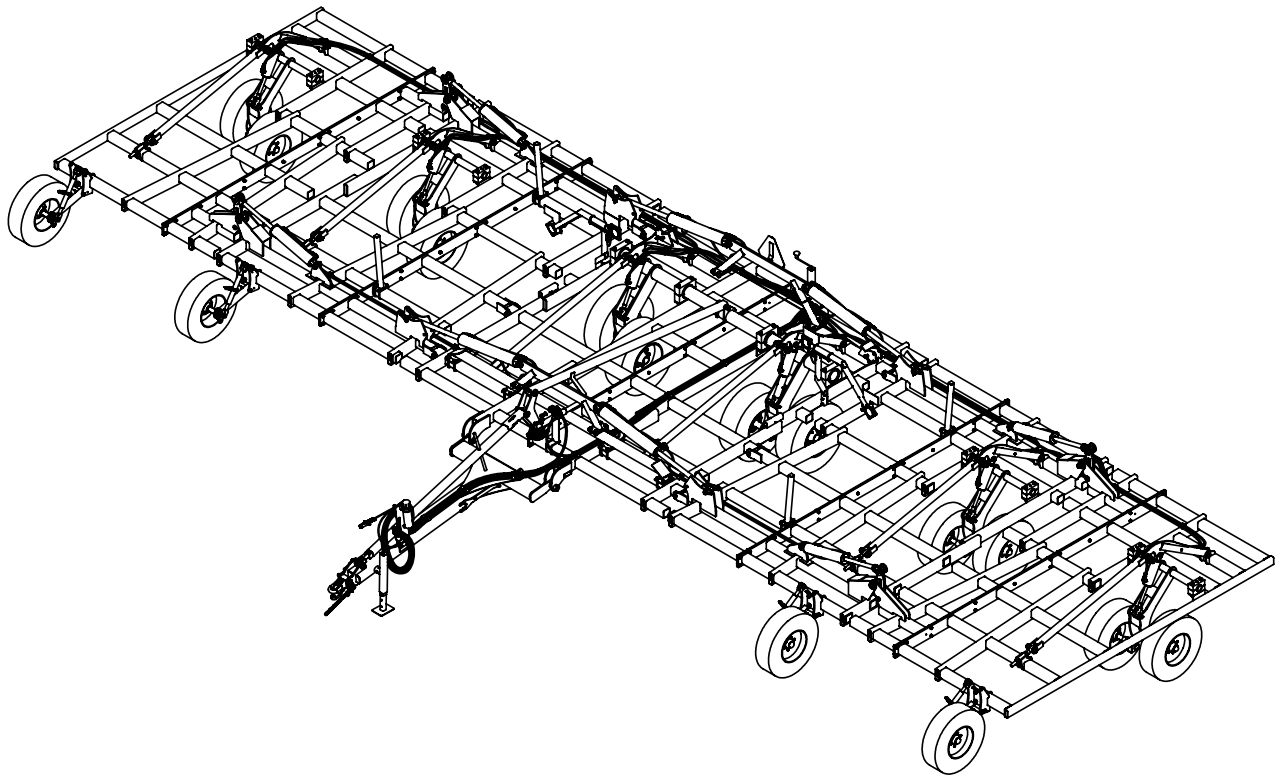


# KONGSKILDE 8200 DF

## Field Cultivator - Double Fold Operators Manual

Kongskilde  
8200



### Models

768236901	8236	Field Cultivator (36.5')
768238901	8238	Field Cultivator (38.5')
768240901	8240	Field Cultivator (40.5')
768242901	8242	Field Cultivator (42.5')
768244901	8244	Field Cultivator (44.5')
768246901	8246	Field Cultivator (46.5')
768248901	8248	Field Cultivator (48.5')

\*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 and options.

[illegible]

## INTRODUCTION

This manual has been developed to assist you in operating and servicing your new Kongskilde product. Read it carefully: it will provide you with information that will enable you to obtain years of dependable service.

Before attempting to operate this equipment, read, and understand this manual fully and follow all safety precautions. In addition, make sure that every individual who operates or works with this equipment is familiar with these instructions. Observation of these safety precautions will make your farm a safer place to work.



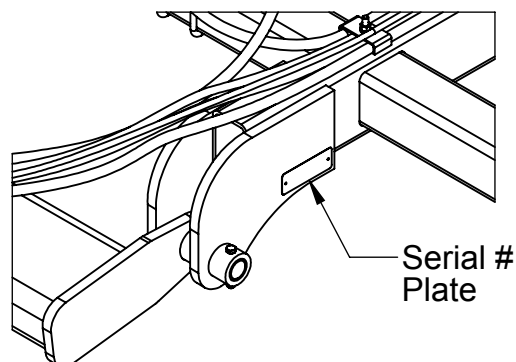
**READ THE OWNERS MANUAL BEFORE  
OPERATING OR SERVICING THE MACHINE**

## Machine Identification

The machine manufacturer along with the model and serial number are provided on the metal Serial Number Plate located on the front left center beam of the center section.

Please record the model and serial number of the machine on the registration form provided in the back of the book and have it ready for reference when making inquiries regarding spare parts or service information.

If you did not receive a warranty registration form, contact your dealer and they will obtain one for you. It is important that the warranty registration be completed and returned to Kongskilde to validate the warranty protection period.



## SAFETY ALERT SYMBOL:

This safety symbol, is used to call your attention to instructions concerning the personal safety of the owner or operator.

**WARNING!** Do not operate this machine unless you have read and understood the instructions and safety information in the Kongskilde Operator's Manual.

Failure to follow the instructions for safe operation of the equipment could result in serious injury or death. Proper care and operation of this implement is your responsibility.

Contact your dealer or Kongskilde for replacement manuals, safety decals and replacement parts.



## SAFETY KEY WORDS & ALERTS:

The key words - DANGER, WARNING and CAUTION used alone or in combination with the Safety Hazard Alert Symbol in this Operators Manual and on Safety Decals located on the framework of the machine, are used to identify hazards on or near the implement.

Safety Instructions indicate procedures which must be followed to avoid hazards.

Hazard Alerts are identified by the key word, and the symbol:

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

**WARNING** - A potential hazard or unsafe practice which **COULD** result in serious personal injury or death if the proper precautions are not taken.

**CAUTION** - A potential hazard or unsafe practice which **COULD** result in personal injury or in product or property damage if the proper precautions are not taken.



## SAFETY DECALS:

### Safety Decal Locations:

Safety Decals are located on the framework of the implement. The specific locations are chosen to provide optimal visibility to the operator or bystanders. In the case of hidden or obstructed hazards or safety precautions, the decals may be located on or near the hazard, or other convenient locations near hook-up points, adjustment devices or service points frequently visited by the operator.

Please read and obey all safety decals on the machine. Ensure they are kept clean and in good condition. Kongskilde is committed to safety and provides replacement safety decals and operator manuals at no charge if they become lost, damaged or illegible.

Each safety decal is identified by a part number, and are available through your Kongskilde Dealer.

### IMPORTANT NOTICE:

Kongskilde cannot anticipate every possible circumstance that might involve a hazard with this product. The hazard alerts and safety instructions in this publication and on the product are therefore not all inclusive. If a tool, procedure, work method or operating technique not specifically recommended by Kongskilde is used, you must satisfy yourself that is safe for you and others. You must ensure that the implement will not be damaged or made unsafe by the operation, maintenance or repair procedures you choose.

Kongskilde will not be held responsible for any unauthorized modifications made to this product and will immediately void the warranty coverage.

## PRODUCT SAFETY PRECAUTIONS



Make certain all safety decals, reflectors and SMV signs are applied to your machine. Refer to your local governmental regulations for more information on proper procedures and markings for safe road transport in your area.



**IMPORTANT NOTE:** This unit has a narrow transport width and a high center of gravity which may pose a tipping hazard when folded for transport.



Do not transport over 32 kmh (20 M.P.H.) Reduce speed in adverse weather, when turning or traveling on inclines or uneven ground. Always start and stop slowly..

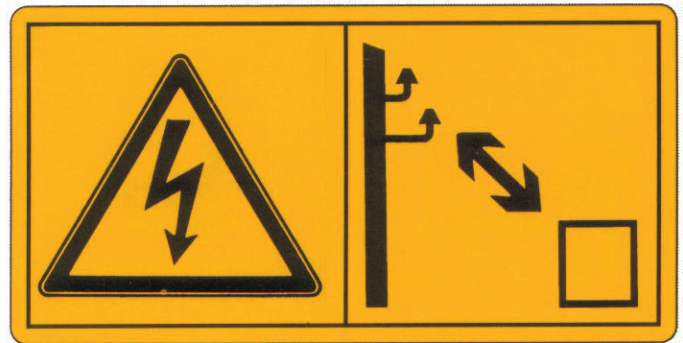




The operator is responsible at all times to comply with the local government regulations and insure the safe transport of the implement when transporting large or oversized implements on public or private roadways. Careful consideration must be given in order to prevent accidents with other vehicles and avoid coming in contact with obstacles such as: bridges, tunnels, overpasses, guard rails, road signs, traffic lights, power lines, public utilities, and other structures that may be encountered along the chosen route. In some jurisdictions the operator may be required to obtain special permits or arrange for escorts before transporting oversized equipment. Kongskilde is not liable for personal or property damage caused by inappropriate, unauthorized or unsafe transport or operation of equipment.



**DANGER! Watch for wires.**  
Take care when transporting, folding or unfolding the implement around power lines. Serious injury or death to the operator or bystanders will result through direct or indirect contact with power lines.



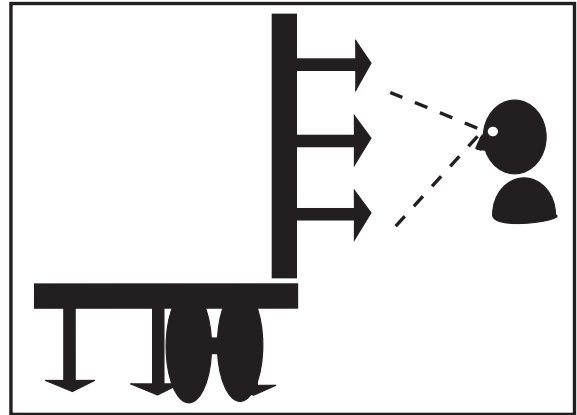
Never unfold when there are bystanders in the area of the wing fall zone. Be certain all persons are clear of working area in and around the machine whenever folding, unfolding, raising or lowering the machinery or in any way using the hydraulic system.







Be alert when walking around the machinery in the folded transport position to avoid walking into the edge of a sharp blade. Severe head or body injury could result.



Make sure that the tractor is shifted into park before getting out to remove transport locks and wing fold lock pins. Never remove wing lock pins or wheel transport locks when the implement is sitting on uneven ground where tipping could occur.



Never remove transport lockout devices or unfold the unit unless cylinders are completely full of oil. Failure to properly charge the folding hydraulics with oil could allow the wings to free fall when unfolding, causing damage to the equipment and possible injury to the operator or bystanders. Never fold the implement wings by any mechanical method! Always charge the hydraulic system first and use it to fold and unfold the wings. Stand clear of the machine and watch for overhead hazards or objects in the wing-fall zone when folding and unfolding.





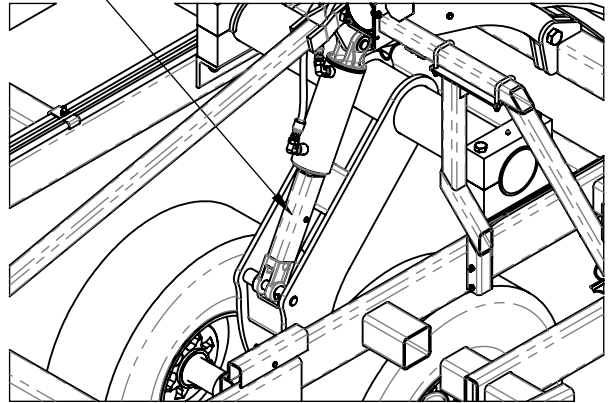
## SAFETY DEVICES FOR Folding and Transporting Implements:



### WHEEL LOCK FOR TRANSPORT CYLINDERS

Insert a safety lock over the centre section master cylinder rod and fasten the pins. Slowly ease the cultivator down until the wheel lock is wedged firmly in place.

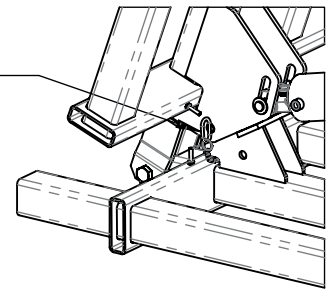
Transport Lock



### MECHANICAL WING LOCK FOR SAFE TRANSPORT

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

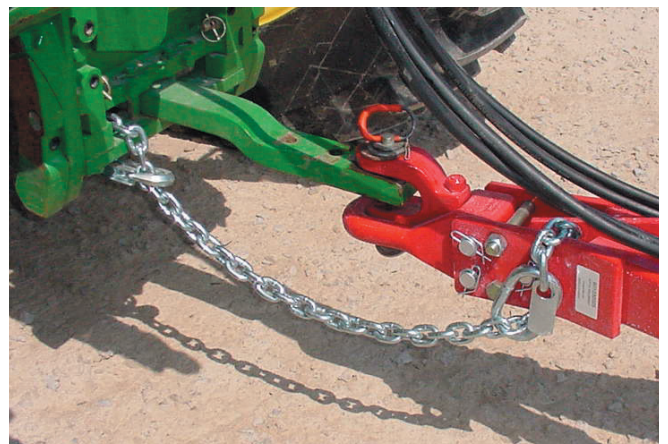
Wing Lock  
Safety Pin



### DRAW PIN AND SAFETY TOW CHAIN

Always use an approved hitch pin with safety lock pin when hooking towed implements to the tractor draw bar.

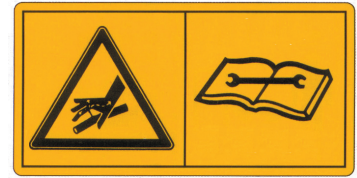
For added security, use a certified safety tow chain to connect the implement to the tractor draw frame before transporting.



## MAINTENANCE & LUBRICATION



Use extreme caution around suspected hydraulic leaks or damaged hose lines. Hydraulic fluid under pressure can be extremely dangerous. Always wear hand and eye protection. Always lower the cultivator to the ground and release hydraulic pressure before performing maintenance to the hydraulic system.



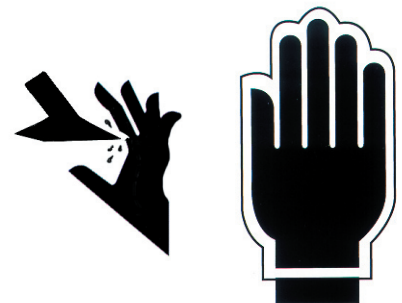
Take care to keep the floor area clean when performing maintenance to the machine. Help protect our environment and prevent injuries from falls by cleaning up any spilled or leaking fluids with absorbent products. Take care to dispose of contaminated rags or absorbents in accordance with your local environmental regulations. Put away tools and roll up any air lines or electrical cords that were used when making repairs to the equipment and dispose of scrap materials or worn out parts in an appropriate manner.



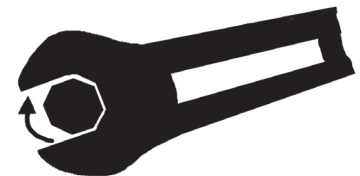
Never crawl under the machine to make repairs or adjustments or replace tines and shares, etc. unless you have properly blocked and supported the cultivator frame. The cultivator must be secured in a fixed position in order to prevent it from moving or falling before making any attempt to work underneath. Use suitable shop stands or lifting devices that can support the entire weight of the implement. Never use cement blocks, bricks, hollow tiles or other props that may crumble or collapse under continuous load.



Wear gloves when changing shares or removing share bolts as the edges can become extremely sharp when worn.



Regularly check all nuts and bolts for tightness and secure if loose. Replace worn out or damaged machine components. Establish a good routine for regular inspection, lubrication and maintenance in order to keep the machine in good operating condition.





## **TIRE PRESSURE:**

Explosive separation of tire and rim can result in serious injury or death. To prevent tire explosion, maintain proper tire pressure. Inflating a tire below or above the recommended pressure can result in tire damage (see illustration below). Tires should only be mounted by properly trained personnel. Replace damaged or worn tires and rims immediately. Replace all missing lug nuts and bolts.

### **MODEL 8200 OPERATING PRESSURE RECOMMENDED BY TIRE MANUFACTURER:**

Galaxy 12.5L-16.5 tire (Main Frame).....Inflate to 105 psi (723.9 kPa)

Galaxy 9.5L-15 tire (Wings).....Inflate to 90 psi (620.5 kPa)



# LUBRICATION DIAGRAM

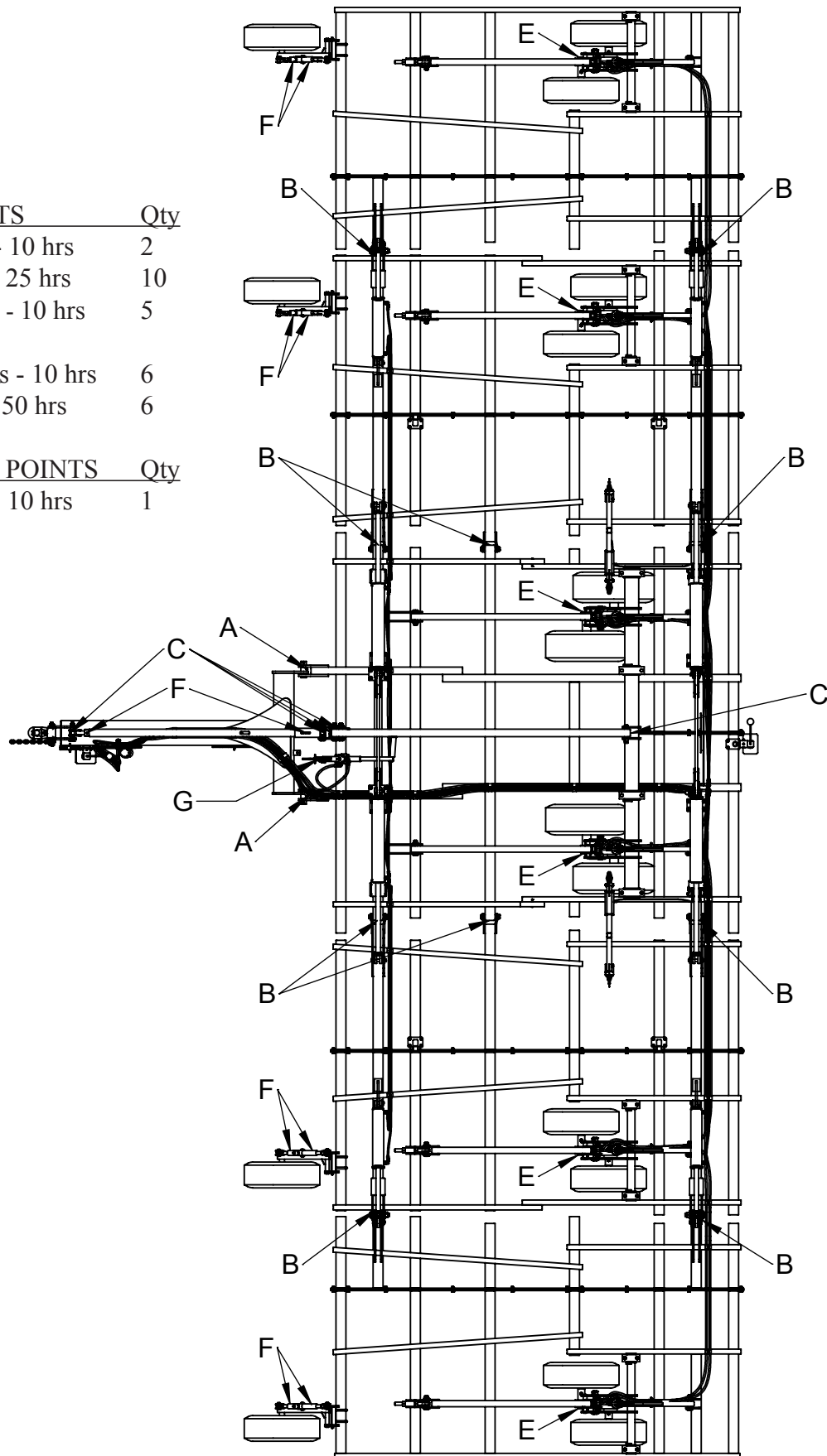
## GREASE POINTS Qty

A. Hitch Pivots - 10 hrs	2
B. Wing Pivots - 25 hrs	10
C. Linkage Pivots - 10 hrs	5

E. Tandem Pivots - 10 hrs	6
F. Turnbuckles - 50 hrs	6

## LUBRICATION POINTS Qty

G. Single Point - 10 hrs	1
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# FIELD SET-UP INSTRUCTIONS

## FIELD SET-UP OVERVIEW

1. Level the center frame front to back.
2. Level the wings to match the center frame.
3. Adjust the working depth of the machine.
4. Adjust the gauge wheels.
5. Run the cultivator in the field to fine tune settings.

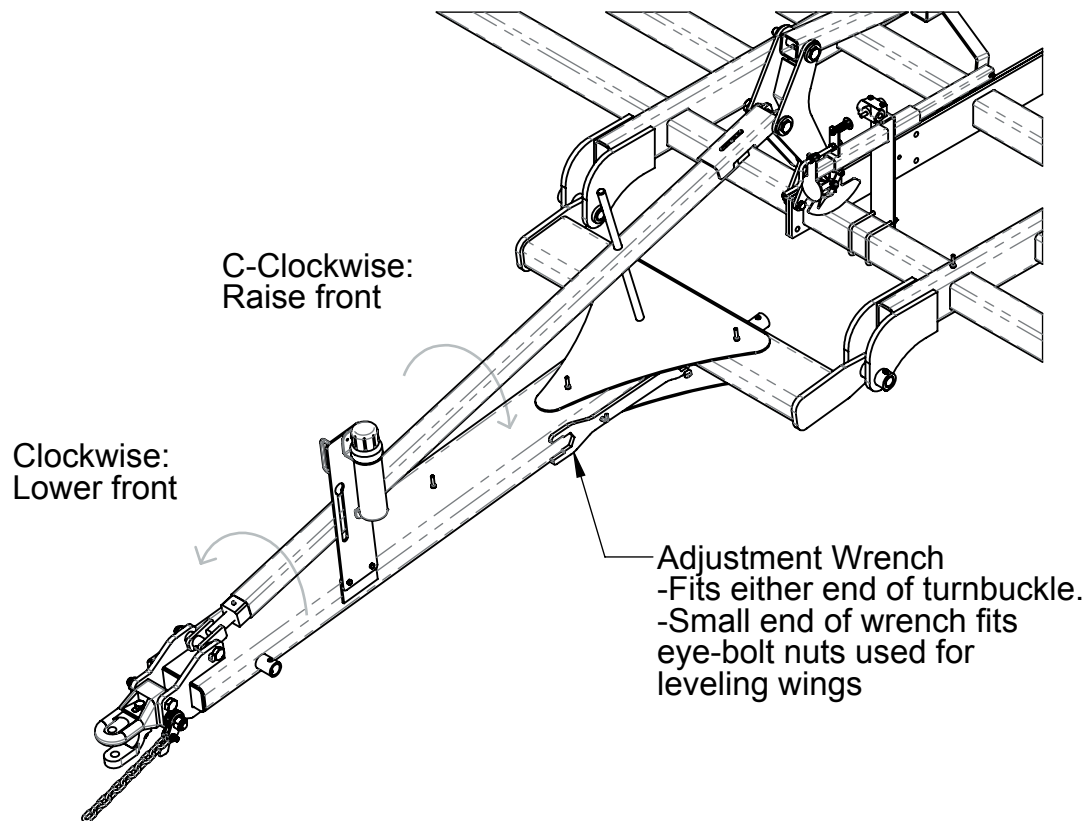
## INSTRUCTIONS

1. Position cultivator on firm level surface. With the machine connected to the tractor, unfold and lower the machine so the tines are 2-3" off the ground. Raise turnbuckle latch and adjust turnbuckle as needed.

-Rotate turnbuckle clockwise (facing forward) to lower front of cultivator.

-Rotate turnbuckle counter-clockwise to raise front of cultivator.

Once front and rear tines are equal distance from the ground, re-engage turnbuckle latch.

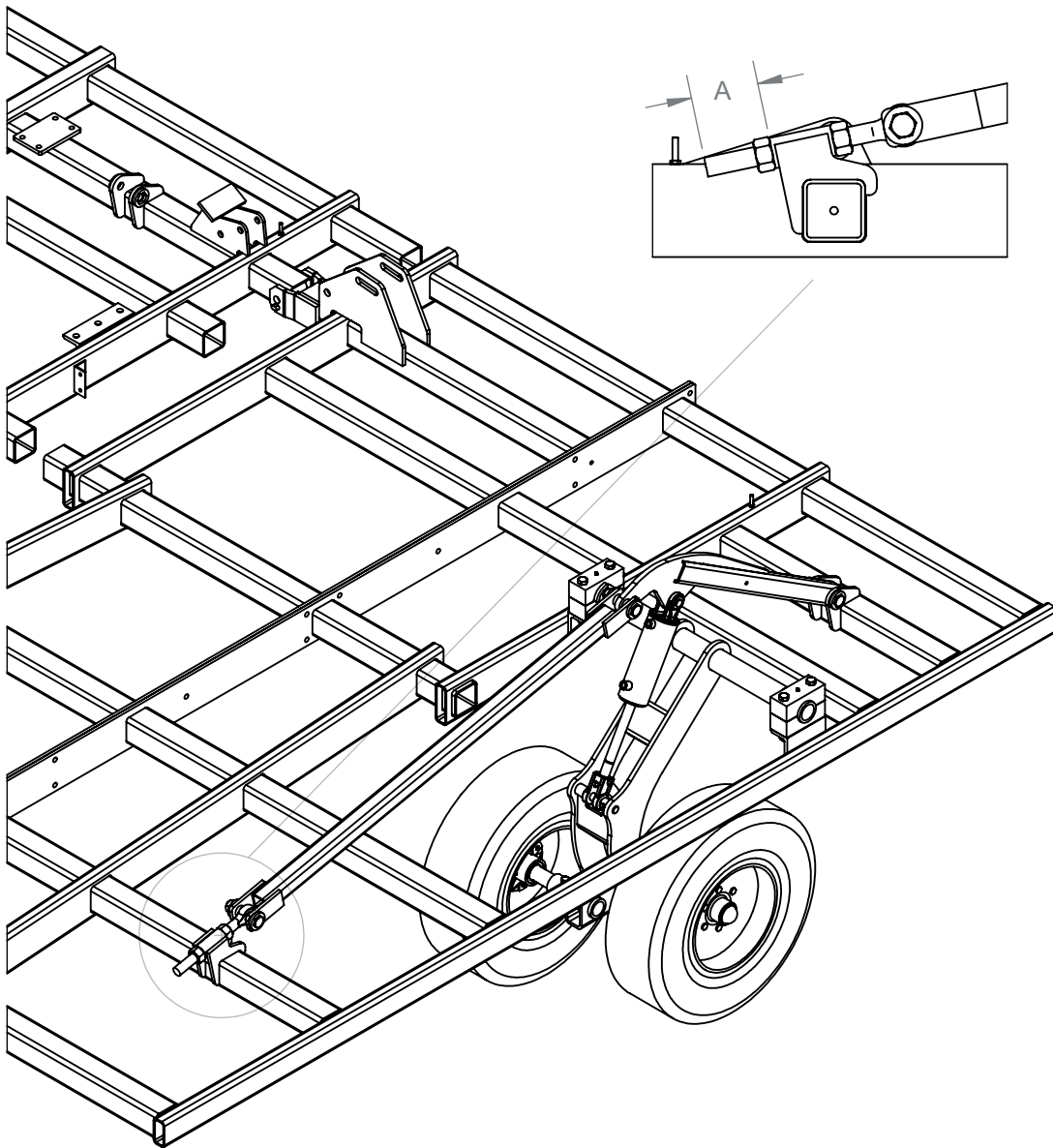


2. After leveling cultivator front to back, the wing frames need to be leveled side to side with the center frame. Determine whether the wings are too low or too high. Lower the machine to the ground to remove weight from the wing wheels. Loosen nuts on eyebolts and use them to adjust wheel height.

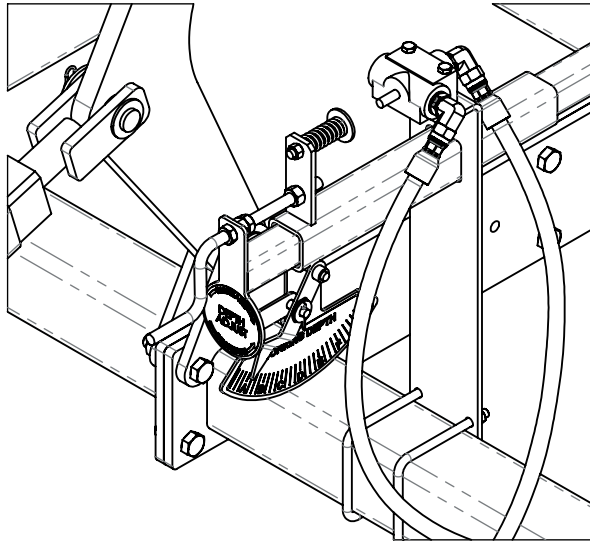
- Increase length of eyebolts protruding forward (A) to lower wheels and raise wing

- Decrease length of eyebolts protruding forward (A) to raise wheels and lower wing

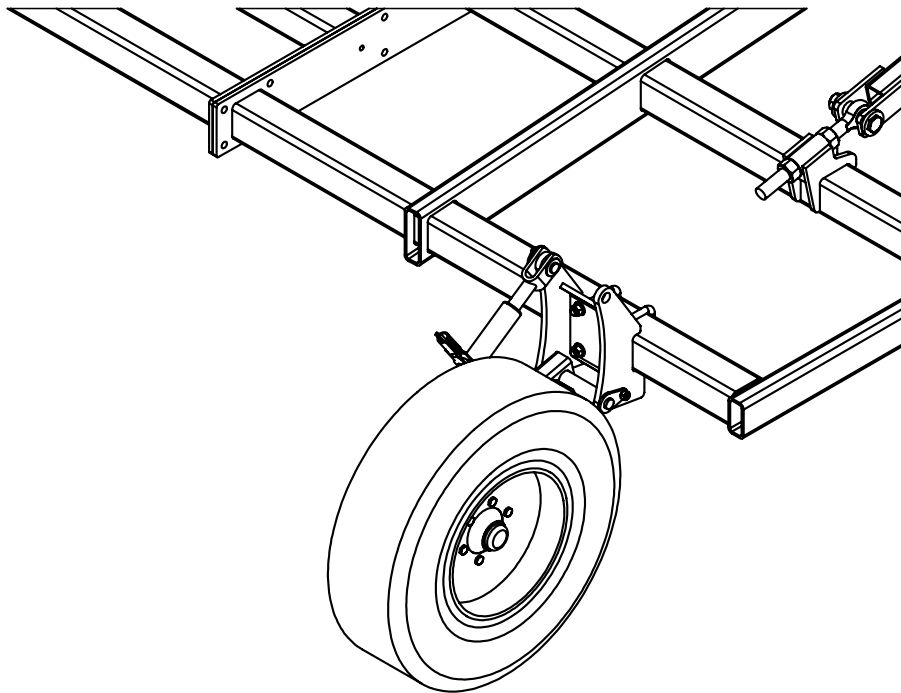
Raise the cultivator to re-check wing height and follow same procedure until satisfied. Once wings are level with center frame re-tighten nuts.



3. After machine level, adjust working depth by using single point crank. Lower machine until single point valve engages. Depth can be estimated by how far wheels come off the ground. Raise machine and adjust single point accordingly. One full turn of the crank will lower/raise the working depth about 3/8".



4. Lower machine down to working depth. Adjust gauge wheels using ratcheting turnbuckles so they will run a couple inches higher than wing wheels. Gauge wheels are not designed to support the entire weight of the wing. They are only designed to reduce gouging and wing bounce.



5. Operate machine in field and make any leveling/depth adjustments using previous steps until satisfied with performance.



## HYDRAULIC TROUBLE SHOOTING CHART

Problem	Cause	Remedy
1) Cultivator cylinders do not work in unison. Cylinders seem spongy.	Air in System	Raise cultivator to highest transport position. Hold the hydraulic lever on the tractor in the "raise" position for approx. 30 seconds. Flow passes through the cylinder bypass ports to flush air out of the system.
2) Wing cylinder contracts when master extends.	Hose connections wrong.	Check circuit according to the hose layout diagram.
3) Wing cylinders stroke further than master cylinder when retracting wings too deep, or: One wing cylinder will not retract fully when all others are retracted.	a) Wrong hose connections.  b) Cylinder sizes or locations wrong.	Check circuit according to the hose layout diagram.  Check cylinder locations and sizes according to hydraulic layout diagram.
4) One section of cultivator settles down in use.	a) System not being re-phased.  b) External leak from cylinder, hose or fitting.  c) Internal leak in cylinder.	When the cylinders are extended fully each cylinder bypasses a small amount of oil to allow other cylinders to catch up. This rephasing is done each time the cultivator is raised fully to the top and must be done periodically and is recommended at each end of the field.  Repair leaking component.  Install new cylinder seal kit in the wing cylinder that settles.
5) Entire cultivator settles.	a) Tractor valve leaking back.	To check, remove hose from the tractor when cultivator is raised. This eliminates the tractor valve from the circuit. CAUTION: Make certain your tractor connections safely allow this operation.



Problem	Cause	Remedy
5) Entire cultivator settles.	b) External leak.  c) Wing cylinder and master cylinder leaking internally.	Repair leaking component.  Install new cylinder seal kits.
6) Cultivator settles in transport or while parked.	Not using the transport lock.	The hydraulic system is not intended to hold the cultivator up permanently. A slow settling when not in use is normal.
7) Cylinders will not rephase.	a) Dirt blocking bypass ports in cylinder.  b) Faulty cylinder.	Air pressure can be used to determine which cylinder will not bypass when extended.  Rephasing cylinder and repair parts must be used in this service.
8) Air returns to system causing problems 1, 4, 5 to recur.	a) Air entering system.  b) See item 7.	Check tractor oil level. Check tractor hydraulic pump. See item 7.  Note: A mixture of oil and air forms a foam which may give unexpected results. It may take a few hours use before all foam is expelled.
9) Center section is not level or goes out of level in use.	a) A frame or wheel link bolt or pin bent or broken.  b) A frame or wheel linkage bent.  c) Wheel links were not set in the same hole.	Replace broken bolt.  See Dealer for instructions on straightening ore replacement of bent parts.  Always adjust wheel towers the same.
10) Both center section and one wing settle together. Remaining wing raises or stays at the top.	Internal leak in the master cylinder.	Install new cylinder seal kit.

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.





## **WARRANTY**

Kongskilde Limited and / or Kongskilde Incorporated, hereinafter referred to as Kongskilde, as manufacturer, warrants to the original retail purchaser of its products, that the products are constructed free from manufacturing defects. This warranty covers all Kongskilde group products including the brand names; Kongskilde, Overum, Howard and Progressive.

The Kongskilde obligation under this warranty is expressly limited, at their option, to the replacement or repair of such parts, as inspection shall disclose to have been defective, within 365 days from the date of delivery. Repair or replacement of defective part(s), to be made at an authorized Kongskilde dealer location, transportation charges prepaid by the end user.

No warranty of any kind is made by Kongskilde with regard to products which have been subject to normal wear, misuse, abuse, negligence or accident, or have been altered or repaired in any manner not authorized by Kongskilde or if repairs have been made with parts other than those obtainable from Kongskilde.

This warranty is subject to any conditions of supply, which may directly affect our ability to obtain materials or manufacture replacement parts.

Kongskilde reserves the right to make improvements in design or change in specifications at any time, without incurring any obligations to owners of units previously sold.

This warranty shall not be interpreted to render us liable for injury or damages of any kind of nature, direct, consequential, or contingent to person or property.

This warranty does not extend to loss of crops, loss because of delay or any expense of loss incurred for labor, supplies, substitute machinery, rental, or for any other reason.

Any defects in components purchased by Kongskilde as complete units for installation in or with Kongskilde equipment, will only be covered to the extent that the original manufacturer warrants them to Kongskilde, e.g.. Hydraulic cylinders, bearings, tires, etc.

Kongskilde makes no other express warranty, nor is anyone authorized to make any on behalf of Kongskilde.

THIS WARRANTY IS EFFECTIVE ONLY WHEN THE "WARRANTY REGISTRATION FORM" HAS BEEN COMPLETED AND RETURNED WITHIN 20 DAYS FROM THE TIME OF SALE TO THE ORIGINAL RETAIL PURCHASER.

KONGSKILDE INDUSTRIES INC.  
19500 N 1425 EAST ROAD  
HUDSON, IL 61748  
Tel: 866-214-5664 / Fax: 866-264-5664





## **OWNER REGISTRATION & WARRANTY FORM**

**Covering Kongskilde, Overum, Howard and Progressive Products.**

To initiate warranty coverage, this form must be filled out and signed  
by both Dealer and Owner at time of delivery and returned to:

KONGSKILDE INDUSTRIES INC.  
19500 N 1425 EAST ROAD  
HUDSON, IL 61748  
Tel: 866-214-5664 / Fax: 866-264-5664

**FAILURE TO COMPLETE AND FILE THIS REPORT OR  
ANY FALSE INFORMATION WILL INVALIDATE THE WARRANTY.**

ITEM:.....	DELIVERY DATE:.....
MODEL #:.....	SERIAL #:.....
DEALER:.....	OWNER:.....
ADDRESS:.....	ADDRESS:.....
CITY:.....	CITY:.....
PROV/STATE:.....	PROV/STATE:.....
ZIP/P. CODE:.....	ZIP/P. CODE:.....
PHONE NUMBER:.....	PHONE NUMBER:.....

### **Dealer's Statement:**

I have conducted a pre-delivery inspection and have thoroughly instructed the customer on the equipment described above. I have reviewed the owner's manual content including; proper equipment care, adjustments, safe operating practices and the attached warranty policy. I confirm that this equipment was assembled properly as directed by the manufacturer and that the safety equipment and decals provided have been installed and the unit is ready for delivery.

Dealer's Signature:..... Date:.....

### **Owner's Statement:**

The above equipment appears to be set up properly and in good condition. I have been thoroughly instructed as to the proper care, adjustments and safe operating practices and use of the safety devices provided for this equipment. I have reviewed and received my copy of the owner's manual and warranty policy. I agree to accept delivery and responsibility for the safe operation, care and maintenance of this equipment in accordance with the local regulations and the warranty policy.

Owner's Signature:..... Date:.....

ORIGINAL COPY TO KONGSKILDE, HUDSON  
2nd COPY TO DEALER  
3rd COPY TO CUSTOMER