

OWNER'S MANUAL

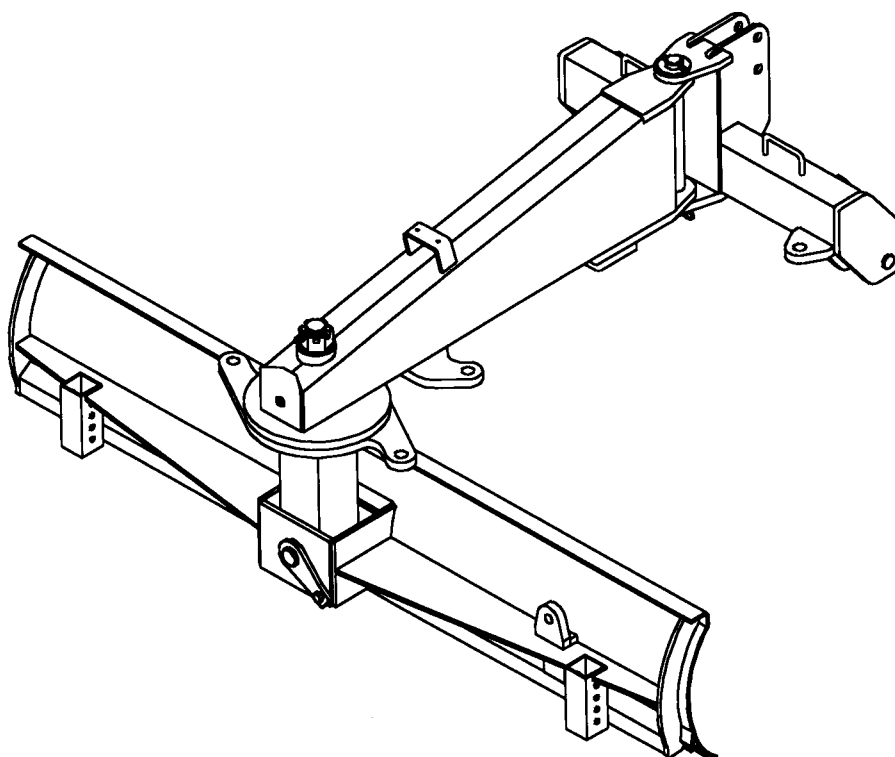
MODEL NO.'s

XHB-1096

XHB-1120

CAUTION

For Safe Operation
Read Rules And
Instructions Carefully



3 PT. REAR BLADE

For Cat. II

3 Pt. Hitch Tractors

STATEMENT OF POLICY

It is the policy of **Worksaver, Inc.** to improve its products where it is possible and practical to do so. **Worksaver, Inc.** reserves the right to make changes or improvements in design and construction at any time, without incurring the obligation to make these changes on previously manufactured units.

Safety Instructions
Tractor Preparation
Operating Instructions

Assembly & Mounting
Maintenance
Repair Parts

CAUTION

**THE FOLLOWING SAFETY PRECAUTIONS SHOULD BE THOROUGHLY UNDERSTOOD
BEFORE ATTEMPTING TO BEGIN ASSEMBLING THIS MACHINE**

1. Select an area for assembly that is clean and free of any debris which might cause persons working on the assembly to trip.
2. Do not lift heavy parts or assemblies. Use crane, jack, tackle, fork trucks or other mechanical devices.
3. Preview the assembly instructions in your operator's manual before proceeding further.
4. If the assembly instructions call for parts or assemblies to be blocked up, use only blocking material that is in good condition and is capable of handling the weight of the assembly to be blocked. Also insure that the blocking material is on a clean, dry surface.
5. Never put hands, or any part of body, under blocked up assemblies if at all possible.
6. After completing assembly, thoroughly inspect the machine to be sure that all nuts, bolts, hydraulic fittings or any other fastened assemblies have been thoroughly tightened.
7. Before operating the machine, thoroughly read the operation section of your operator's manual.
8. Before operating, read the maintenance section of your operator's manual to be sure that any parts requiring lubrication, such as gearboxes, are full, to avoid any possible damage.
9. **Before operating equipment – If you have any questions regarding the proper assembly or operation, contact your dealer or the manufacturer**

TABLE OF CONTENTS

SAFETY INFORMATION	2
SAFETY SIGNS	12
PREPARATION INSTRUCTIONS	13
OPERATING INSTRUCTIONS	15
OWNER MAINTENANCE & LUBRICATION	18
TROUBLESHOOTING	19
PARTS LISTS	21
WARRANTY	26

SINO LEEINGLES, PIDA AYUDA A
AIGUIEN QUE SI LO LEA PARA QUE
LE TRADUZCA LAS MEDIDAS DE
SEGURIDAD.

STATEMENT OF POLICY

It is the policy of **Worksaver, Inc.** to improve its products where it is possible and practical to do so. **Worksaver, Inc.** reserves the right to make changes or improvements in design and construction at any time, without incurring the obligation to make these changes on previously manufactured units.

TO THE OWNER :

Read this manual before using your 3 Pt. Rear Mounted Blade. This manual is provided to give you the necessary operating and maintenance instructions for keeping your rear blade in top operating condition. Please read this manual thoroughly. Understand what each control is for and how to use it. Observe all safety signs on the machine and noted throughout the manual for safe operation of implement. Keep this manual handy for ready reference.

Like all mechanical products, it will require cleaning and upkeep. Lubricate the blade as specified.

Use only genuine Worksaver, Inc. service parts. Substitute parts will void the warranty and may not meet standards required for safe and satisfactory operation. Record the model and serial number of your blade here:

Model: _____ Serial Number: _____

RETAIL CUSTOMER'S RESPONSIBILITY

It is the Retail Customer and/or Operator's responsibility to read the Operator's Manual, to operate, lubricate, maintain, and store the product in accordance with all instructions and safety procedures. Failure of the operator to read the Operator's Manual is a misuse of this equipment.

It is the Retail Customer and/or Operator's responsibility to inspect the product and to have any part(s) repaired or replaced when continued operation would cause damage or excessive wear to other parts or cause a safety hazard.

It is the Retail Customer's responsibility to deliver the product to the authorized Worksaver Dealer, from whom he purchased it, for service or replacement of defective parts which are covered by warranty. Repairs to be submitted for warranty consideration must be made within forty-five (45) days of failure.

It is the Retail Customer's responsibility for any cost incurred by the Dealer for traveling to or hauling of the product for the purpose of performing a warranty obligation or inspection.

To the Owner/Operator/Dealer

All implements with moving parts are potentially hazardous. There is no substitute for a cautious, safe-minded operator who recognizes the potential hazards and follows reasonable safety practices. The manufacturer has designed this implement to be used with all its safety equipment properly attached to minimize the chance of accidents.

BEFORE YOU START!!

**Read the safety messages on the implement and shown in your manual.
Observe the rules of safety and common sense!**



THIS SYMBOL MEANS

- ATTENTION!
- BECOME ALERT!
- YOUR SAFETY IS INVOLVED!

THIS SAFETY ALERT SYMBOL IDENTIFIES IMPORTANT SAFETY WARNING MESSAGES. CAREFULLY READ EACH WARNING MESSAGE THAT FOLLOWS. FAILURE TO UNDERSTAND AND OBEY A SAFETY WARNING, OR RECOGNIZE A SAFETY HAZARD, COULD RESULT IN AN INJURY OR DEATH TO YOU OR OTHERS AROUND YOU. THE OPERATOR IS ULTIMATELY RESPONSIBLE FOR THE SAFETY OF HIMSELF, AS WELL AS OTHERS, IN THE OPERATING AREA OF THE TRACTOR AND ATTACHED EQUIPMENT.

UNDERSTAND SIGNAL WORDS

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

DANGER: Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury. This signal word is to be limited to the most extreme situations typically for machine components which, for functional purposes, cannot be guarded.

WARNING: Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed. It may also be used to alert against unsafe practices.

CAUTION: Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

If you have questions not answered in this manual or require additional copies or the manual is damaged, please contact your dealer or the manufacturer directly.

IMPORTANT SAFETY INFORMATION!

Working with unfamiliar equipment can lead to careless injuries. Read this manual, and the manual for your tractor, before assembly or operating, to acquaint yourself with the machines. It is the implement owner's responsibility, if this machine is used by any person other than yourself, is loaned or rented, to make certain that the operator, prior to operating:

1. Reads and understands the operator's manuals.
2. Is instructed in safe and proper use.



The use of this equipment is subject to certain hazards which cannot be protected against by mechanical means or product design. All operators of this equipment must read and understand this entire manual, paying particular attention to safety and operating instructions, prior to using. If there is something in this manual you do not understand, ask your supervisor, or your dealer, to explain it to you.

SAFETY INSTRUCTIONS (continued)



SAFETY SIGNS



Keep safety signs clean and legible at all times.



Replace safety signs that are missing or have become illegible.



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



Safety signs are available from your Distributor or Dealer Parts Department or the factory.

How to Install Safety Signs:



Be sure that the installation area is clean and dry.



Be sure temperature is above 50°F (10°C).



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



Remove the smallest portion of the split backing paper.



Align the sign 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 sign in place.



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



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.



Inflating or servicing tires can be dangerous. Whenever possible, trained personnel should be called to service and/or mount tires.



Always order and install tires and wheels with appropriate capacity to meet or exceed the anticipated weight to be placed on the equipment.

SAFETY INSTRUCTIONS (continued)



EQUIPMENT SAFETY GUIDELINES



Safety of the operator is one of the main concerns in designing and developing a new piece of equipment. Designers and manufacturers build in as many safety features as possible. However, every year many accidents occur which could have been avoided by a few seconds of thought and a more careful approach to handling equipment. You, the operator, can avoid many accidents by observing the following precautions in this section. To avoid personal injury, study the following precautions and insist those working with you, or for you, follow them.



In order to provide a better view, certain photographs or illustrations in this manual may show an assembly with a safety shield removed. However, equipment should never be operated in this condition. Keep all shields in place. If shield removal becomes necessary for repairs, replace the shield prior to use.



Replace any CAUTION, WARNING, DANGER or instruction safety sign that is not readable or is missing. Location of such safety signs is indicated in this booklet.



Never use alcoholic beverages or drugs which can hinder alertness or coordination while operating this equipment. Consult your doctor about operating this machine while taking prescription medications.



Review the safety instructions with all users annually.



This equipment is dangerous to children and persons unfamiliar with its operation. The operator should be a responsible adult familiar with farm machinery and trained in this equipment's operations. **Do not allow persons to operate or assemble this unit until they have read this manual and have developed a thorough understanding of the safety precautions and of how it works.**



To prevent injury or death, use a tractor equipped with a Roll-Over Protective System (ROPS). Do not paint over, remove or deface any safety signs or warning signs on your equipment. Observe all safety signs and practice the instruction on them.



Never exceed the limits of a piece of machinery. If its ability to do a job, or to do so safely, is in question - **DON'T TRY IT.**



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



In addition to the design and configuration of this implement, including Safety Signs and Safety Equipment, hazard control and accident prevention are dependent upon the awareness, concern, prudence, and proper training of personnel involved in the operation, transport, maintenance, and storage of the machine. Refer also to Safety Messages and Operation instruction in each of the appropriate sections of the Tractor and Blade Manuals. Pay close attention to the Safety Signs affixed to the Tractor and the Rear Blade.

SAFETY INSTRUCTIONS (continued)



SAFETY TRAINING



Safety is a primary concern in the design and manufacture of our products. Unfortunately, our efforts to provide safe equipment can be wiped out by a single careless act of an operator. It is the operator's responsibility to read and understand ALL Safety and Operating instructions in the manual and to follow these. Accidents can be avoided.



In addition to the design and configuration of equipment, hazard control and accident prevention are dependent upon the awareness, concern, prudence and proper training of personnel involved in the operation, transport, maintenance and storage of equipment.



Personal protection equipment including hard hat, safety glasses, safety shoes, and gloves are recommended during assembly, installation, operation, adjustment, maintaining, repairing, removal, or moving the implement. Do not allow long hair, loose fitting clothing or jewelry to be around moving parts.



PROLONGED EXPOSURE TO LOUD NOISE MAY CAUSE PERMANENT HEARING LOSS!

Tractors with or without implements attached can often be noisy enough to cause permanent, partial hearing loss. We recommend that you wear hearing protection on a full-time basis if the noise in the Operator's position exceeds 80db. Noise over 85db on a long-term basis can cause severe hearing loss. Noise over 90db adjacent to the Operator over a long-term basis may cause permanent, total hearing loss. **NOTE:** Hearing loss from loud noise (from tractors, chain saws, radios, and other such sources close to the ear) is cumulative over a lifetime without hope of natural recovery.



Operate the blade only with a tractor equipped with an approved Roll-Over Protective System (ROPS). Always wear your seat belt on tractors equipped with a ROPS. Serious injury or even death could result from falling off the tractor --particularly during a turnover when the operator could be pinned under the ROPS or the tractor.



Operate only in daylight or good artificial light.



Working with unfamiliar equipment can lead to careless injuries. Read this manual, and the manual for your tractor, before assembly or operating, to acquaint yourself with the machines. It is the rotary mower owner's responsibility, if this machine is used by any person other than yourself, is loaned or rented, to make certain that the operator, prior to operating:

1. Reads and understands the operator's manuals.
2. Is instructed in safe and proper use.



Know your controls and how to stop tractor, engine, and implement quickly in an emergency. Read this manual and the one provided with your tractor.



Train all new personnel and review instructions frequently with existing workers. A person who has not read and understood all operating and safety instructions is not qualified to operate the machine. An untrained operator exposes himself and bystanders to possible serious injury or death.



Do not allow children to operate this machine.

SAFETY INSTRUCTIONS (continued)



OPERATIONAL SAFETY



The use of this equipment is subject to certain hazards which cannot be protected against by mechanical means or product design. All operators of this equipment must read and understand this entire manual, paying particular attention to safety and operating instructions, prior to using. If there is something in this manual you do not understand, ask your supervisor, or your dealer, to explain it to you.



Do not reach or place yourself under equipment until it is blocked securely.



Take all possible precautions when leaving unit unattended: Disengage PTO, set parking brake, stop engine and remove key from ignition. Park in level area.



Do not allow riders on the rear blade or tractor at any time. There is no safe place for any riders.



Never operate tractor and implement under trees with low hanging limbs. Operators can be knocked off the tractor and then run over by the implement.



Stay alert for holes, rocks and roots in the terrain and other hidden hazards. Keep away from drop-offs.



Use extreme care and maintain minimum ground speed when transporting on hillside, over rough ground and when operating close to ditches or fences. Be careful when turning sharp corners.



Reduce speed on slopes and sharp turns to minimize tipping or loss of control. Be careful when changing directions on slopes. Do not start or stop suddenly on slopes. Avoid operation on steep slopes.



When using a unit, a minimum 20% of tractor and equipment weight must be on tractor front wheels. Without this weight, tractor could tip over, causing personal injury or death. The weight may be attained with a front end loader, front wheel weights, ballast in tires or front tractor weights. When attaining a minimum 20% of tractor and equipment weight on the front wheels, you must not exceed the ROPS weight certification. Weigh the tractor and equipment. Do not guess or estimate!



Inspect the entire machine periodically as indicated in the Maintenance Section of this manual. Look for loose fasteners, worn or broken parts, pinched hydraulic hoses, and leaky or loose fittings. Make sure all pins have cotter pins and washers. Serious injury may occur from not maintaining this machine in good working order.



In extremely uneven terrain, rear wheel weights, front tractor weight, and/or tire ballast should be used to improve stability.



Pass diagonally through sharp dips and avoid sharp drops to prevent “hanging up” tractor and implement. Practice will improve your skills in maneuvering rough terrain.

















Always cut down slopes; never across the face. Avoid operation on steep slopes. Slow down on sharp turns and slopes to prevent tipping and/or loss of control.

SAFETY INSTRUCTIONS (continued)



OPERATIONAL SAFETY (continued)

-  All equipment is potentially hazardous. There is no substitute for a cautious, safe-minded operator who recognizes potential hazards and follows reasonable safety practices.
-  When the use of hand tools is required to perform any part of assembly, installation, adjustment, maintaining, repairing, removal, or moving the implement, be sure the tools used are designed and recommended by the tool manufacturer for that specific task.
-  Personal protection equipment including safety glasses, safety shoes, and gloves are recommended during assembly, installation, operation, adjustment, maintaining, repairing, removal, or moving the rear blade.
-  Always use two people to handle heavy, unwieldy components during assembly, installation, removal, or moving the rear blade.
-  Never place any part of your body where it would be in danger if movement should occur during assembly, installation, operation, maintaining, repairing, removal, or moving the implement.
-  Never place yourself between the tractor and implement while hitching or while implement is in operation.
-  Do not work under a raised implement unless it is securely blocked or held in position. Do not depend on the tractor hydraulic system to hold the implement in place.
-  Do not allow others to ride on the tractor with an operator. Riders are subject to injury such as being struck by foreign objects or being thrown off. Riders obstruct the operator's view resulting in unsafe operation. **Never allow anyone to ride on the implement!**
-  Before you operate the rear blade, check over all pins, bolts and connections to be sure all are securely in place. Replace any damaged or worn parts immediately.
-  Use stabilizer bars, adjustable sway chains, or sway blocks on your tractor lift arms to keep the rear blade from swinging side to side. Adjust as tightly as practical for best performance.
-  Keep alert and watch the front as well as the rear when working with the implement.
-  When maneuvering close to buildings or passing through narrow areas, be sure to allow sufficient clearance for the implement.
-  Do not operate close to ditches or creeks. Slow down when operating over rough ground.
-  Always be sure the implement is in the fully raised position when in transport.

SAFETY INSTRUCTIONS (continued)



OPERATIONAL SAFETY (continued)



When adjusting the angle of the moldboard assembly, be sure that your feet are never under the rear blade.



Use extreme caution when backfilling deep holes or trenches.



Be careful to avoid catching the rear blade on stumps or other immovable objects.



Use care when working on slopes.



Avoid excessive speed during operation.



Make adjustments only when the implement is attached to the tractor.



When using the rear blade in a reverse position, use extra care. **Do not ram rear blade** into piles of dirt. Tractor lift arms and the rear blade are not built to take high impact loads in this position. **Ramming** backwards can also dislodge operator from seat and/or tractor controls, resulting in possible serious injury or death.



Always ease the tractor into the load. It may be necessary to reposition and take less “bite” on the material to move it safely.



Watch for and avoid hidden obstructions, i.e., buried pipes, rocks, concrete piers, uneven concrete slabs, stumps, etc., when operating.



MAINTENANCE SAFETY



Good maintenance is your responsibility. Poor maintenance is an invitation to trouble.



Follow good shop practices.

- Keep service area clean and dry.
- Be sure electrical outlets and tools are properly grounded.
- Use adequate light for the job at hand.



Make sure there is plenty of ventilation. Never operate the engine of the towing vehicle in a closed building. The exhaust fumes may cause asphyxiation.



Before working on this machine, drive to a level area, disengage the PTO, lower implement (or if working underneath, raise and block securely), shut off the engine, set the brakes, and remove the ignition keys.



Be certain all moving parts on attachments have come to a complete stop before attempting to perform maintenance.

















Never work under equipment unless it is blocked securely. Never depend on hydraulic system to keep implement in raised position.

SAFETY INSTRUCTIONS (continued)



MAINTENANCE SAFETY (continued)

-  Keep all persons away from operator control area while performing adjustments, service, or maintenance.
-  Always use personal protection devices such as eye, hand and hearing protectors, when performing any service or maintenance.
-  Periodically tighten all bolts, nuts and screws and check that all cotter pins are properly installed to ensure unit is in a safe condition.
-  When completing a maintenance or service function, make sure all safety shields and devices are installed before placing unit in service.
-  Remove hydraulic pressure prior to doing any maintenance. Place the blade on the ground or securely blocked up, disengage the PTO, and turn off the engine. Push and pull the remote cylinder lever in and out several times to relieve hydraulic pressure.
-  Never use your hands to locate a hydraulic leak on attachments. Use a small piece of cardboard or wood. Hydraulic fluid escaping under pressure can penetrate the skin.
-  Openings in the skin and minor cuts are susceptible to infection from hydraulic fluid. If injured by escaping hydraulic fluid, see a doctor at once. Gangrene and death can result. Without immediate medical treatment, serious infection and reactions can occur.
-  After servicing, be sure all tools, parts and service equipment are removed.
-  Check to ensure all safety signs are installed and in good condition. (See safety sign section for location drawing.)
-  Do not allow grease or oil to build up on any deck or platform.
-  Never replace hex bolts with less than grade five bolts unless otherwise specified, i.e. shear bolts. Refer to bolt torque chart for head identification marking.
-  Where replacement parts are necessary for periodic maintenance and servicing, genuine factory replacement parts must be used to restore your equipment to original specifications. The manufacturer will not claim responsibility for use of unapproved parts and/or accessories and other damages as a result of their use.
-  If equipment has been altered in any way from original design, the manufacturer does not accept any liability for injury or warranty.
-  A fire extinguisher and first aid kit should be kept readily accessible while performing maintenance on this equipment.

SAFETY INSTRUCTIONS (continued)



TRANSPORT SAFETY



Comply with state and local laws governing highway safety and movement of farm machinery on public roads.



The use of flashing amber lights is acceptable in most localities. However, some localities prohibit their use. Local laws should be checked for all highway lighting and marking requirements.



When driving the tractor and equipment on the road or highway under 20 mph (32 kph) at night or during the day, use flashing amber warning lights and a slow moving vehicle (SMV) identification emblem.



Always be sure the implement is in the proper raised position for transport. Always center blade on tractor. Never attempt road travel with moldboard offset in traffic lane.



Reduce speed when transporting mounted implements to avoid bouncing and momentary loss of steering control.



Plan your route to avoid heavy traffic.



Always install transport locks, pins or brackets before transporting.



Do not drink and drive!



Watch for traffic when operating near or crossing roadways.



Turn curves or go up or down hills only at a low speed and at a gradual steering angle. Make certain that at least 20% of the tractor's weight is on the front wheels to maintain safe steerage. Slow down on rough or uneven surfaces, and loose gravel.



Use extreme care and maintain minimum ground speed when transporting on hillside, over rough ground and when operating close to ditches or fences. Be careful when turning sharp corners.



Never allow riders on either tractor or implement. Falling off can kill.



Be a safe and courteous driver. Always yield to oncoming traffic in all situations, including narrow bridges, intersections, etc.



Do not exceed 20 mph (32 kph). Reduce speed on rough roads and surfaces.



Use hardened hitch pins with retainers when attaching to pull-type machines.










Use a safety chain to prevent unexpected separation with pull-type models.

SAFETY INSTRUCTIONS (continued)



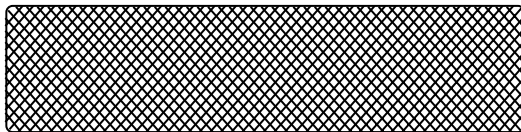
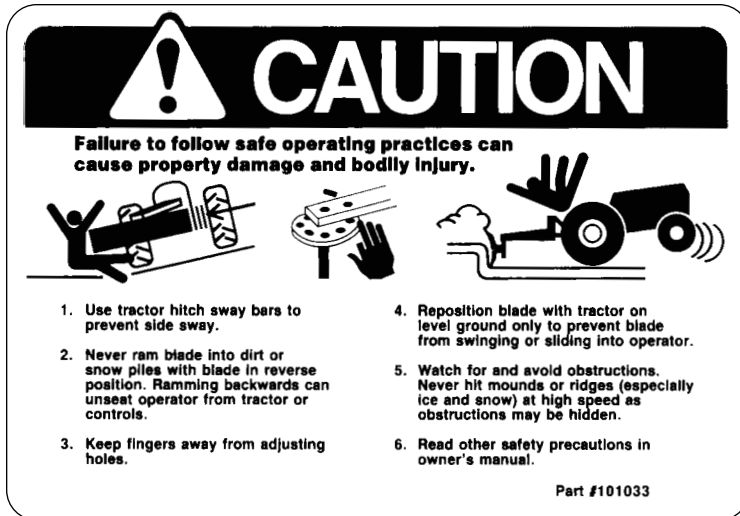
STORAGE SAFETY

-  Following operation, or when unhooking, stop the tractor, set the brakes, disengage the PTO, shut off the engine and remove the ignition keys.
-  Never unhitch without using the parking stands. The blade is very heavy. Attempting to lift the front of the blade without using jacks or mechanical hoist could cause strains. Allowing the front hitch of the blade to fall suddenly and unexpectedly could result in crushing injury.
-  Store the unit in an area away from human activity.
-  Do not park equipment where it will be exposed to livestock for long periods of time. Damage and livestock injury could result.
-  Do not permit children to play on or around the stored unit.
-  Make sure all parked machines are on a hard, level surface and engage all safety devices.
-  If blocking is used, make sure it is solid and secure before leaving area.

SAFETY SIGNS



SAFETY SIGNS (continued)



RED – REFLECTOR
Rear of Moldboard

READ AND OBEY ALL SAFETY RULES

This SAFETY SIGN is located on the frame of your rear blade. Obey ALL Safety Warnings.

NOTE:
If Safety Sign is missing or damaged, replace immediately.

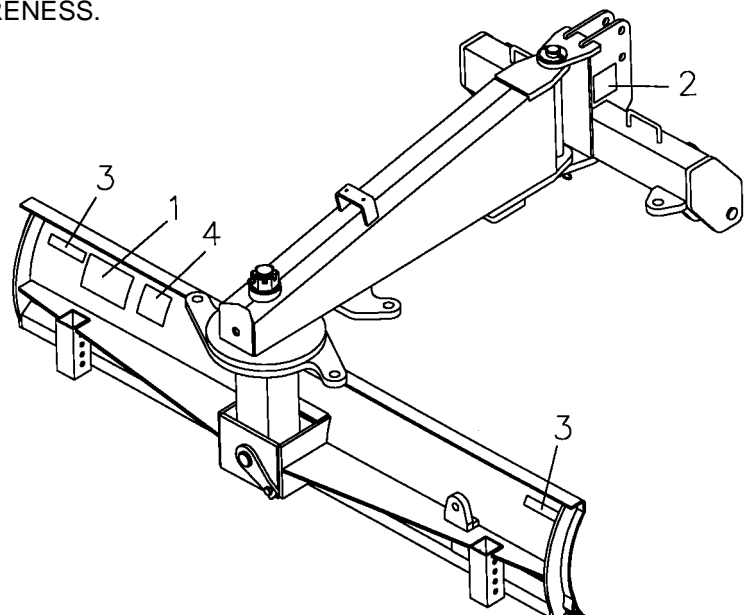


SAFETY SIGN LOCATIONS

The types of Safety Sign and locations on the equipment are shown in the illustration below. Good safety requires that you familiarize yourself with the various Safety Signs, the type of warning and the area, or particular function related to that area, that requires your SAFETY AWARENESS.

SAFETY SIGN LOCATIONS

NO.	PART NO.	DESCRIPTION
1	101033	Caution – Safe Practices
2	101122	Warning – Hyd. Oil
3	101121	Reflector – Red
4	101168	Notice – HP Rating (XHB-1096)
	101169	Notice – HP Rating (XHB-1120)



REMEMBER: If Safety Signs have been damaged, removed, become illegible or parts replaced without Signs, new Safety Signs must be applied. New Safety Signs are available from your authorized distributor or factory.

INSTRUCTIONS

TRACTOR REQUIREMENTS AND PREPARATION

The XHB Series Rear Blades will fit Category II, Category II Quick Hitches and some Category III N Quick Hitches. These blades are designed for use on tractors from 60 to 120 horsepower.

The model XHB-1096 (8ft.) blade is recommended for tractors from 60 to 120 hp. The model XHB-1120 (10 ft.) blade is recommended for tractors from 70 to 110 hp.

Check the tractor's 3 point hydraulic lift system. It should operate up and down smoothly and hold its position when set. Refer to your tractor owner's manual or dealer for any adjustments necessary to put the 3 point hydraulic lift system in good working order. (I&T shop manuals will list most specifications and adjustment instructions - available from most farm equipment dealers.)

Check the hydraulic system. Be sure the tractor hydraulic oil and filter have been serviced according to the tractor manufacturer's recommendations.

Tractor should be equipped with stabilizer bars, adjustable sway chains, or sway blocks to keep the implement from swinging side to side.

If blade is to be controlled hydraulically, then tractor must be equipped with remote hydraulic outlets. If blade offsets, angle, and tilt are to be operated hydraulically, then tractor must have three (3) pair of remote connections. Adjustable mechanical links are available for all three control locations if desired.

Smaller size tractors may need front counter weights to counter-balance the weight of the implement.

It is recommended that the tractor be equipped with a Rollover Protection System (ROPS) and a seat belt that is used.



CAUTION!



Be sure your tractor is in good condition. Read all the safety precautions and make sure all tractor operators are familiar with the safety rules of operation.

The XHB Series Rear Blades may be manually or hydraulically controlled for offset, angle, and tilt.

The remote hydraulic cylinders (Accessory Equipment) available from your Worksaver dealer are designed to be used in conjunction with your tractor hydraulic system. The cylinders and hoses are designed for a maximum system pressure of 2500 PSI.

The owner may substitute his own double acting hydraulic cylinders for main frame offset, moldboard angle, and moldboard tilt adjustment in lieu of the cylinders supplied by the dealer. HOWEVER, the recommended cylinder specifications for main frame offset and moldboard angle is 4" bore, 16" stroke ASAE with 2" diameter rod. The clevis pins are 1.25" diameter. The recommended cylinder specifications for the moldboard tilt is 3" bore, 8" stroke ASAE with a 1.25" diameter rod and 1.0" diameter clevis pins.

ASSEMBLY AND MOUNTING

Assembly requirements will vary depending on how the rear blade was shipped. Generally, most model XHB-1096 (8 ft.) blades are shipped assembled while the model XHB-1120 are shipped as two bundles on one pallet. The type of truck used and the amount of room on the truck at the time of shipment determines how the blade was shipped.

If your blade requires assembly, follow these steps:

1. Do not attempt to lift heavy parts or assemblies. Use a hoist, crane, forklift, or similar safe mechanical device.
2. Preview the assembly instructions and the exploded views of the blade in your operator's manual and become familiar as to how the parts or assemblies go together.
3. Have good blocking material available.
4. Select an area for assembly that is clean and free from debris.
5. Assemble the 3 pt. hitch mount (Ref. #1) to the front of the main swing arm (Ref. #2). The 1.75" diameter pin (Ref. #9) has a $\frac{3}{8}$ " x 3" roll pin installed at the top of the pin with a 1.75" I.D. machinery bushing (Ref. #10) between the roll pin and the top of the hitch mount.
It may be necessary to remove the paint from the front pivot pin prior to installation. If so, it is recommended that the pin be repainted after assembly.
A $\frac{3}{8}$ " x 4" cotter pin (Ref. #12) is installed at the bottom of the 1.75" front pivot pin to lock it in position.
6. Assemble the moldboard head (Ref. #3) to the moldboard (Ref. #4). Grease the pivot pin (Ref. #5) before assembly. Lock the pivot pin into position with the $\frac{5}{8}$ " x 2" bolt (Ref. #6).

INSTRUCTIONS (continued)

ASSEMBLY AND MOUNTING

(continued)

7. Remove the 2" hex nut (Ref. #15) from the top of the main spindle and the washer (Ref. #16).
8. Set the moldboard head assembly in an upright position and block securely.
Install the optional ratchet jack between the lugs on the moldboard (Ref. #4) and the moldboard head (Ref. #3) and adjust the jack so the head assembly is vertical or block the head assembly into a vertical position.
Grease the entire 3.0" diameter main pivot spindle.
9. Using a mechanical lift, raise the assembly of the 3 pt. hitch and swing arm above the blocked up moldboard and head assembly.
Insert the parking stand (Ref. #18) in the square socket provided and pin in the "up" position.
Now lower the swing arm onto the 3" diameter main pivot spindle. Install the washer and secure with the 2" hex nut but allow the swing arm to pivot on the 3" main spindle. Install the $\frac{3}{8}$ " x 4" cotter pin (Ref. #12).
10. Install the mechanical adjustment links (optional) or the hydraulic cylinders (4" x 16") between the lugs and pin.

NOTE: If using hydraulic cylinders, the offset control cylinder should have the cylinder end pinned to the 3 pt. hitch and the rod end pin to the swing arm. The moldboard angle control cylinder body end should be pinned to the swing arm lug and the rod end pinned to the plate on the moldboard head.

The 3" x 8" tilt cylinder should have the cylinder body pinned to the moldboard head and the rod end to the lug on the right hand side of the moldboard.

11. If you are using mechanical adjustment links, you are ready to attach the blade to your tractor. If using hydraulic cylinder, refer to the hydraulics section.

HYDRAULICS

If you are using one or more hydraulic cylinders to control the adjustment of the rear blade, refer to the schematic drawing showing the proper cylinder, fittings, hose, and relief valve arrangement.

All of the double-acting hydraulic cylinders require 90° hydraulic swivel type fittings. Use a good quality

hydraulic thread sealant. (DO NOT USE TEFLON TAPE as small pieces of tape can cause hydraulic problems in your tractor and hydraulic valves.)

NOTE: The use of the optional hydraulic cross-over relief valve is highly recommended. This provides protection for both the rear blade and the tractor. If the blade hits a solid object and the pressure in the cylinders goes above the relief valve setting, then the valve opens and allows the blade to swing away from the solid object. This reduces the impact shock on the blade and the tractor. See separate schematic for cross-over relief valve installation.

Route the hoses as shown on the drawing. Make sure that the hoses are properly routed so they will not be pinched or snagged as the blade is adjusted or raised and lowered by the 3 pt. hitch. Loops are provided on the blade frame to hold hoses away from the main pivot locations. Use nylon tie-straps to fasten hoses securely so they will remain in their correct position and not drop down where they could be pinched or sheared.

NOTE: Keep hydraulic connections tight. Repair leaky hose or connections as soon as you discover them. Keep cylinders and hoses free from internal contamination. Never leave a disconnected hose end open. DO NOT over tighten fittings as this could break the cylinder port threads or the hydraulic fittings.



WARNING!



Escaping hydraulic fluid under pressure can penetrate the skin, causing serious injury.

DO NOT use your hand to check for leaks. Use a piece of cardboard or paper to search for leaks.

Stop engine and relieve pressure before connecting or disconnecting lines.

Tighten all connections before starting engine or pressurizing lines.

If any fluid is injected into the skin, obtain medical attention immediately, or gangrene may result.

NOTE: The location of the remote hydraulic connections on tractors vary considerably. The hoses provided are to fit most tractor make and model applications. If the hoses are too long, then coil up the excess carefully and fasten with nylon tie-straps in a safe location. If the hoses prove to be too short, then add a short section of good quality hose with proper fittings.

OPERATING INSTRUCTIONS

HYDRAULICS (continued)

Once you have properly made all the hydraulic connections, remove all the blocking and clear the assembly area. Start the tractor and raise the 3 pt. hitch so the blade is 6-8 inches above the ground. Then cycle the hydraulic controls several times to work the air out of the cylinders and hoses.

Watch the cylinders and hoses as the cylinders cycle. Make sure the hoses have ample freedom. Adjust the fittings as necessary so the hoses do not kink or pull too tight.

Lower the blade to the ground and shut the tractor off, properly set the brakes or place in PARK and remove the key. Then inspect each hydraulic connection for signs of any possible leaks. If any leaks are found, cycle the hydraulic control valve with the tractor engine NOT RUNNING to remove any hydraulic pressure in the lines, then proceed in repairing the leaky connection.

After filling hydraulic cylinders and hoses with oil, re-check oil level in tractor and re-fill to proper level.

GENERAL SAFETY

Only qualified people familiar with this manual should operate this machine. Operator should wear hard hat, safety glasses, and safety shoes. It is recommended that tractor be equipped with Roll-Over Protective System (ROPS) and a seat belt be used. Check for ditches, stumps, holes, or other obstacles that could upset tractor or damage blade. Always turn off tractor engine, set parking brake, lower blade to ground before dismounting tractor.

Safety is a primary concern in the design and manufacture of our products. Unfortunately, our efforts to provide safe equipment can be wiped out by a single careless act of an operator.

It has been said, "The best safety device is an informed, careful operator". We ask you to be that kind of an operator.



**SAFETY . . .
YOU CAN LIVE WITH IT!**

The designed and tested safety of this machine depends on it being operated within the limitations as explained in this manual. Be familiar with and follow all safety rules in the manual, on the blade and on the tractor.

The safe operation of this machine is the responsibility of the owner/operator. The operator should be familiar with the blade and tractor and all safety practices before starting operation. Read the safety rules on pages 2 thru 12.

HITCHING BLADE TO TRACTOR 3 PT. HITCH

The XHB series blades fit Category II 3 pt. hitches and Category II quick hitches.

Never let anyone stand between the rear of the tractor and the rear blade while the tractor is backing up. Always stand to the side until tractor has come to a complete stop and the brakes set or the tractor shift placed in "PARK".

If you are using a quick hitch, having the parking stand at the correct height will make hitching and unhitching much easier. The "correct height" will vary depending on your model tractor and the size of your rear tires.

Make sure all pins are secured and that proper adapters are used on the lower pull pins if a quick hitch is used.

OPERATION



Be sure your tractor is in good condition. Read all the safety precautions and make sure all tractor operators are familiar with the safety rules of operation.



When using the unit, a minimum 20% of tractor and equipment weight must be on tractor front wheels. Without this weight, tractor could tip up, causing possible loss of control and possible personal injury or death. The weight may be attained with a front end loader, front wheel weights, ballast in tires or front tractor weights. When attaining a minimum 20% of tractor and equipment weight on the front wheels, you must not exceed the ROPS weight certification. Weigh the tractor and equipment. DO NOT GUESS OR ESTIMATE!

OPERATING INSTRUCTIONS (continued)

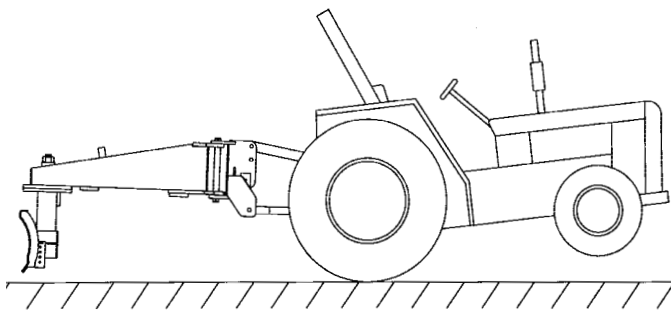


Figure 1. Tractor Stability

Make sure tractor is properly weighted.
Read all Safety Warnings.

OPERATING TIPS

DITCHING (V TYPE DITCH) & TERRACING

Tilt the moldboard to the desired angle (15° or less) down on the right (left) by use of the moldboard tilt cylinder or ratchet jack. If more or less angle is desired adjust the 3 point lower lift arm leveling screw to obtain a finer adjustment.

Adjust the moldboard angle and swing arm to offset the right (left) corner of the blade directly behind the right (left) rear tire with a 45° to 60° angle between blade and a line parallel of the moldboard angle and swing arm will give this angle.

Place the right (left) rear tractor tire in the bottom of the ditch on succeeding passes until the ditch is completed.

For light ditching and cleaning out ditches, operate the tractor at slow speeds, and be careful not to hit any hidden objects. Operating with a light load on the blade or at high speeds will subject the blade to severe damage from the impact load, if a solid object is hit.

To refill a ditch, offset the swing arm to the right (left) and rotate the moldboard to push the dirt into the ditch while traveling forward.

BACKFILLING & BULLDOZING

For conventional backfilling, rotate the blade 180° to place the cutting edge to the rear. Adjust the top link so the front of the main frame is level front to rear or is slightly lower in the front.

When operating in the backfill position, keep a light upward lift on the three point lift to keep the blade from digging in. Keep the load centered on the moldboard. Operate at slow speeds to prevent damage to the unit from impact loads. Use extreme care when backfilling deep ditches.

Snow removal can also be done in this position.

Be careful not to hit any hidden object when in the backfill/bulldoze position. Do not ram into a load at any time as this multiplies the forces several times normal and could result in damage to your blade.



When using the rear blade in a reverse position use extra care - DO NOT RAM REAR BLADE into dirt piles! Tractor lift arms and the rear blade are not built to take high impact loads in this position. RAMMING backwards can also dislodge operator from seat and/or tractor controls, resulting in possible serious injury or death.

UTILITY

To clean close to a fence or building, offset the swing arm to the right (left) to offset the blade beyond the tractor tire. Be careful not to hang the blade tip as this could result in damage to the blade, or main frame.

For smoothing out loose soil, a fine finish can be obtained by pushing the soil with the back of the moldboard.

GRADING

Grading can be accomplished with the cutting edge toward the tractor. Set the moldboard to the desired angle, lower the blade to the ground and set the depth of cut. If the ground is rough, work down the high spots first. It will also help if you can work different directions and use a scarifier to loosen the soil.

These suggestions are generalities; best results will be obtained after some experience.

NOTE: Do not load either end of the blade heavily. Try to balance the load on both ends of the blade. Take extra care, if the blade is offset, not to overload the long side.



Watch for and avoid hidden obstructions, i.e., buried pipes, rocks, concrete piers, or uneven slabs of concrete, when operating, or blade damage may occur. This is especially true when removing snow.

OPERATING INSTRUCTIONS (continued)

NOTE: Always use the tractor anti-sway bars, blocks, or chains to prevent blade side-sway. This is a must when using the blade in a reverse position.



A heavy load can cause instability in driving a tractor. Make sure the front of the tractor is properly counterbalanced with weights. Always drive slowly - especially around turns. An unstable tractor could steer badly and possibly tip over, causing injury or death.

UNEVEN TERRAIN



Do not operate on steep slopes.
Do not stop, start or change directions suddenly on slopes.
Use extreme care and reduce ground speed on slopes and rough terrain.
Watch for hidden hazards on the terrain during operation.

Pass diagonally through sharp dips and avoid sharp drops to prevent "hanging up" tractor and blade.
Practice will improve your skills in maneuvering rough terrain.

-
- U Keep children away from danger all day, every day.
 - U Equip tractors with rollover protection (ROPS) and keep all machinery guards in place.
 - U Please work, drive, play, and live each day with care and concern for your safety and that of your family and fellow citizens.

OB EY A L L
S A F E T Y W A R N I N G S ! !

OWNER SERVICE



WARNING!

- ▲ **Lower blade to ground or block securely, turn tractor engine off, remove key and set brakes or place shift lever in “Park” position.**
- ▲ **Before working underneath, raise 3-pt. hitch to highest position and block blade securely. Hydraulic system leakdown and failure of mechanical or hydraulic system can cause equipment to drop.**
- ▲ **Keep all persons away from operator control area while performing adjustments, service or maintenance.**
- ▲ **Do not run engine indoors – exhaust gases contain carbon monoxide, an odorless and deadly poison.**

MAINTENANCE

Inspect the blade for loose, damaged or worn parts and adjust or replace if needed.

Repaint parts where paint is worn or scratched to prevent rust.

Check all bolts and nuts to be sure they are tight.

At the end of the working season or when the blade will not be used for a long period, it is good practice to clean off any dirt that may have accumulated on the blade and any of the moving parts.

Grease main pivot spindle.

Periodically, remove moldboard tilt pivot pin, apply grease and re-install. (Suggest annually with normal use.)

Oil front swing arm pivot pin.

TRANSPORTING

Pay particular close attention to the Safety Messages regarding transport. Avoid unnecessary injuries and equipment damage by exercising cautious, conscientious travel procedures.

Attaching the blade to the tractor increases the overall length of the working unit. Allow additional clearance for the blade to swing when turning.

Raise the blade as high as possible for transporting. Always transport blade with blade centered on tractor. Never attempt road travel with blade offset into the traffic lane.

STORING SAFELY

- Never store equipment with fuel in the tank inside a building where fumes may reach an open flame or spark. Allow engine to cool before storing in an enclosure.
- Always store blade in a clean, dry location away from children and livestock.
- Storage location should be level and solid to make hitching and unhitching easy.

OPTIONS

- 348110 **Angle or Offset Hydraulic Cylinder Kit**
2 required
Kit includes one (1) 4" x 16" HD cylinder and hoses
- 348108 **Angle or Offset Mechanical Link** (each)
2 required
Can be used in place of 4" x 16" hydraulic cylinder
- 348112 **Angle or Offset Cross-over Relief Valve Kit**
Requires both hydraulic cylinders be the same size
Includes 2 valves and hoses
This option is recommended for hydraulic controlled blades to protect blade and tractor
- 348115 **Tilt Hydraulic Cylinder Kit** (each)
3" x 8" cylinder with hoses
- 590208 **Tilt Mechanical HD Ratchet Jack** (each)
- 348050 **Skid Shoes for XHB Blades** (pair)

NOTE: If desired, (one) hydraulic cylinder may be used to offset the blade and (one) mechanical link used to set the angle of the moldboard or vice versa.



**SAFETY . . .
YOU CAN LIVE WITH IT!**

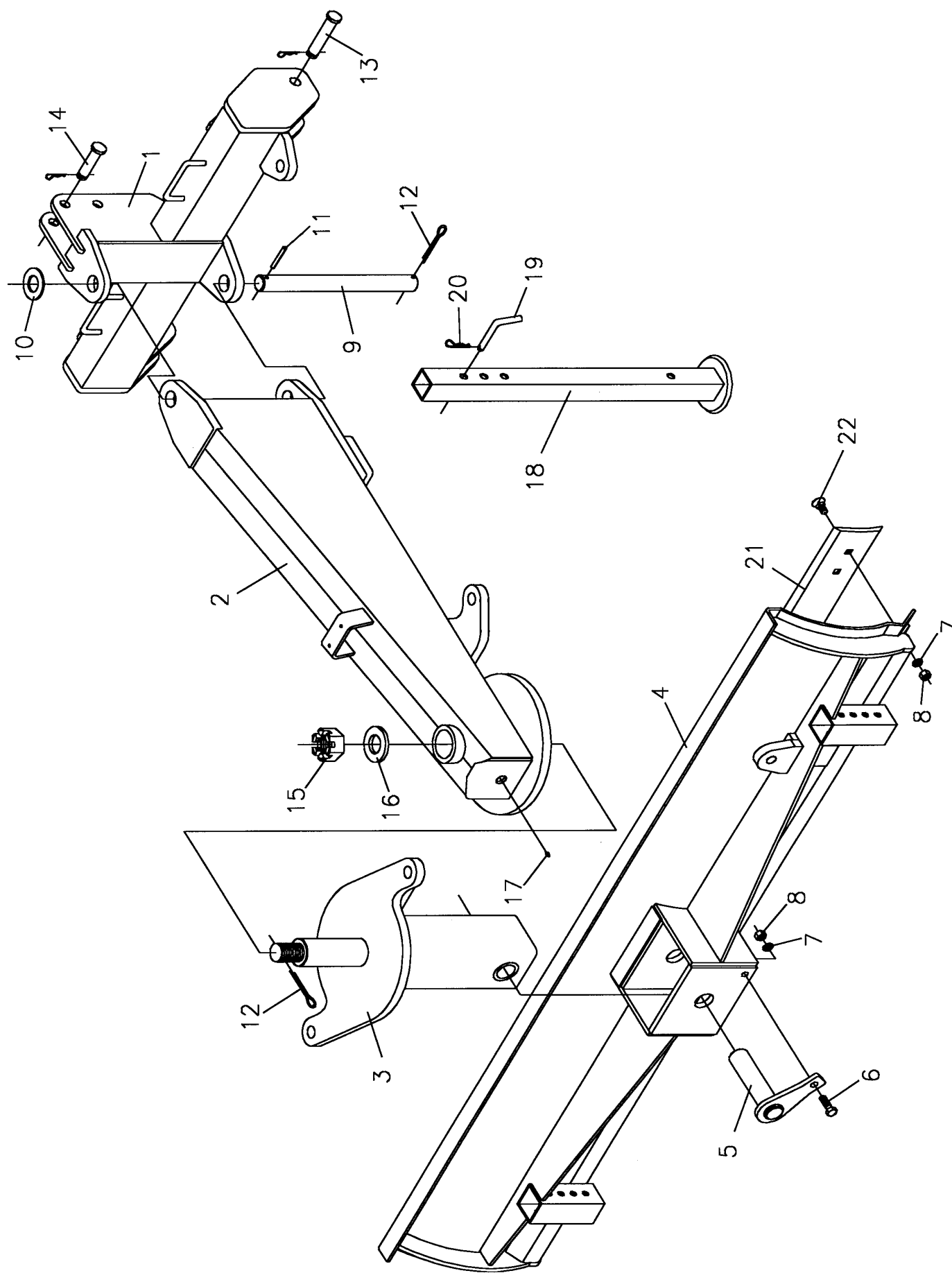
TROUBLESHOOTING GUIDE

PROBLEM	POSSIBLE CAUSE	POSSIBLE REMEDY
Blade will not penetrate soil.	1. Cutting edge dull.	Replace cutting edge.
	2. Blade set too straight.	Increase 3 pt. hitch topline length.
	3. Soil too hard.	Loosen soil with scarifiers. Wait for rain.
Moldboard digging in too much.	1. Blade pitch excessive.	Adjust topline (shorten).
	2. Soft ground.	Install skid shoes. Wait for dryer soil.
3 Pt. hitch frame bent.	1. Hitting hidden objects in backfill position or ramming backwards at high speed into hard piles of soil.	Use slow speed when in unknown soil conditions. Always backfill at slow speed.
	2. Using too large of tractor.	Preferably use tractor of recommended horsepower. Slow down and use extra care. Install cross-over relief hydraulic valve.
Bent moldboard.	1. Small curve is normal from welding.	Can be removed, but will not effect blade operation.
	2. Hitting hidden objects.	Know soil conditions. Use slow speed when soil conditions unknown.
	3. Using too large of tractor or one that is heavily weighted and has four wheel drive.	Preferably use tractor of recommended horsepower. Slow down and use extra care. Install cross-over relief hydraulic valve.
Unable to hold level grade.	1. Tractor draft control lifting blade.	Set tractor draft control.
	2. Soil too hard.	Use scarifiers.

TROUBLESHOOTING GUIDE

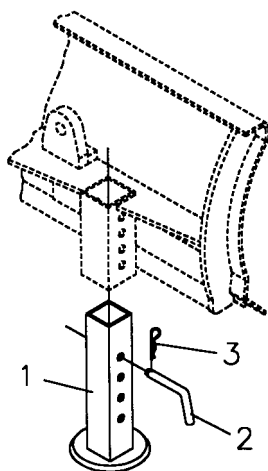
PROBLEM	POSSIBLE CAUSE	POSSIBLE REMEDY
Moldboard hard to move for angle adjust or moves jerky.	1. Lack of lubrication.	Grease pivot pin.
	2. Air in hydraulic lines.	Cycle hydraulic cylinder several times to remove air.
	3. Bent pivot pin.	Replace parts.
Hydraulic cylinder will not operate.	1. Not enough pressure.	Check pressure.
	2. Valve not connected properly.	Check and re-plumb valve.
	3. Quick coupler not completely connected.	Check and complete connection.
Hydraulic cylinder creeping.	1. Valve not in detent position.	Check valve and operate in detent position.
	2. Loose connection.	Check and repair.
	3. Valve seals bad and leaking oil past valve.	Check valve and repair.
	4. Seals bad in hydraulic cylinder.	Repair cylinder.
Oil leaking at hose connection.	1. Connection not tight.	Tighten connection.
	2. Did not use sealant.	Take connection apart, clean, and apply good sealant.
	3. Fitting cracked from over-tightening.	Replace fitting.
	4. Mismatched connection threads or types.	Use correct connection fittings.

XHB-1096 & XHB-1120



XHB-1096 & XHB-1120 PARTS LIST

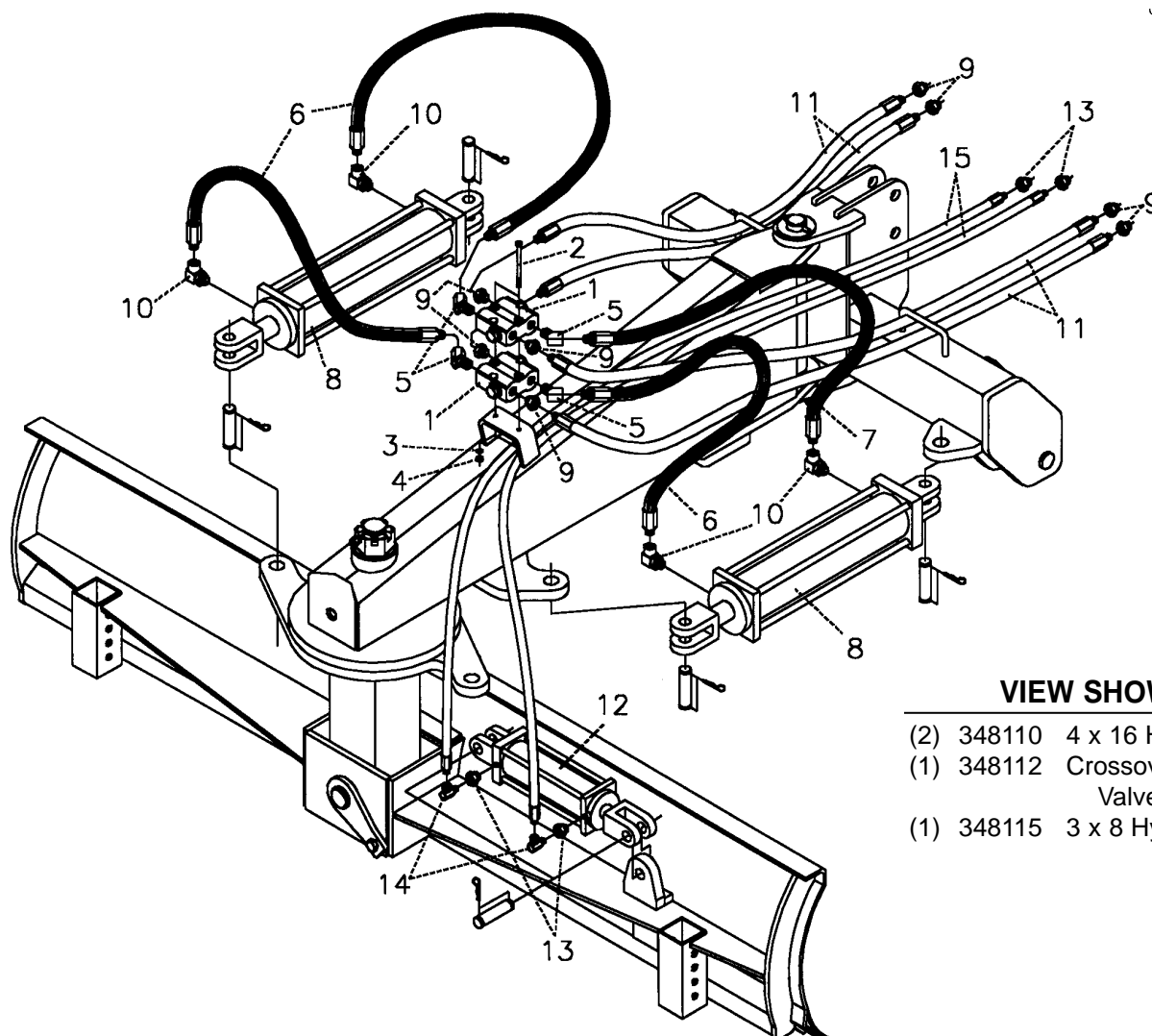
REF. NO.	PART NO.	DESCRIPTION	NO. REQ'D.
1	348001	3 Pt. Mount Weldment	1
2	348010	Swing Arm Weldment	1
3	348020	Moldboard Head Weldment	1
4	348030	Moldboard Weldment (XHB-1096)	1
	348101	Moldboard Weldment (XHB-1120)	1
5	348040	Pivot Pin Weldment	1
6	2503048	Bolt $\frac{5}{8}$ " – 11 NC x 2" Hex Head	1
7	2502007	Washer $\frac{5}{8}$ " Springlock (XHB-1096)	11
	2502007	Washer $\frac{5}{8}$ " Springlock (XHB-1120)	13
8	2500013	Nut $\frac{5}{8}$ " – 11 NC Full Hex (XHB-1096)	11
	2500013	Nut $\frac{5}{8}$ " – 11 NC Full Hex (XHB-1120)	13
9	348044	Arm Pivot Pin	1
10	2501024	Washer, Hardened $1\frac{3}{4}$ " ID	1
11	2504100	Roll Pin $\frac{3}{8}$ " x 3"	1
12	2504013	Cotter Pin $\frac{3}{8}$ " x 4"	2
13	348049	Lift Pin $1\frac{1}{8}$ " Dia. with Hair Clip Pin	2
14	348051	Top Link Pin 1" Dia. with Hair Clip Pin	1
15	2500080	Nut 2" – 4 $\frac{1}{2}$ NC Slotted Hex	1
16	348052	Washer, Special	1
17	2504207	Zerk, Grease M10 x 1.0	1
18	265037	Stand Weldment	1
19	803637	Stand Shift Pin	1
20	590187	Hair Clip Pin (AK-2704)	1
21	350105	Cutting Edge – 8 Ft.	1
	348105	Cutting Edge – 10 Ft.	1
22	2503179	Bolt $\frac{5}{8}$ " – 11 NC x 2" Plow (XHB-1096)	10
	2503179	Bolt $\frac{5}{8}$ " – 11 NC x 2" Plow (XHB-1120)	12



OPTIONAL SKID SHOE PACKAGE PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	NO. REQ'D.
1	348045	Skid Shoe Weldment	2
2	803637	Shift Pin	2
3	590187	Hair Clip Pin (AK-2704)	2

HYDRAULIC KITS FOR XHB-1096 & XHB-1120

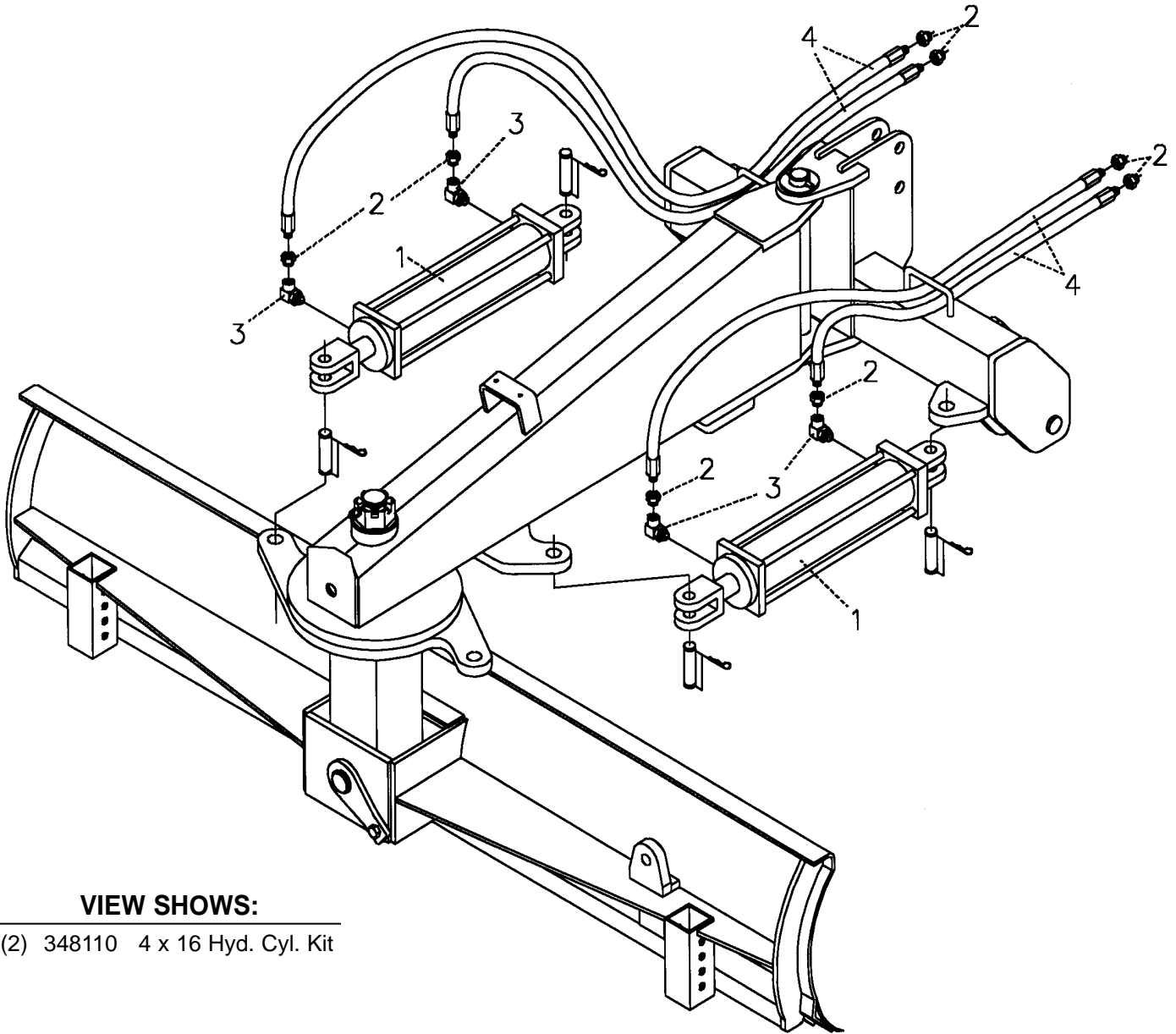


VIEW SHOWS:

- | | | |
|-----|--------|----------------------------|
| (2) | 348110 | 4 x 16 Hyd. Cyl. Kit |
| (1) | 348112 | Crossover Relief Valve Kit |
| (1) | 348115 | 3 x 8 Hyd. Cyl. Kit |

REF. NO.	PART NO.	DESCRIPTION	NO. REQ'D.
	348112	Crossover Relief Valve Kit (#1 thru #7)	1
1	2505558	Valve, Crossover Relief	2
2	2503263	Bolt $\frac{5}{16}$ " – 18 NC x $2\frac{1}{2}$ " Hex Head Gr. 2	2
3	2502011	Washer $\frac{5}{16}$ " Springlock	2
4	2500011	Nut $\frac{5}{16}$ " – 18 NC Full Hex	2
5	2505518	Fitting, Hydraulic – $\frac{1}{2}$ " 45°	4
6	2505516	Hose, Hydraulic $\frac{3}{8}$ " ID x 36"	3
7	2505510	Hose, Hydraulic $\frac{3}{8}$ " ID x 48"	1
N/S	2505544	Tie Wrap	4
	348110	4 x 16 Cylinder Kit (#8 thru #11)	2
8	2504204	Cylinder, Hydraulic 4 x 16 ASAE	2
9	2505507	Reducer Bushing $\frac{1}{2}$ " to $\frac{1}{4}$ "	8
10	2504113	Adapter, 90° O-Ring	4
11	2505538	Hose, Hydraulic $\frac{1}{4}$ " ID x 108"	4
	348115	3 x 8 Cylinder Kit (#12 thru #15)	1
12	2504001	Cylinder, Hydraulic 3 x 8	1
13	2505507	Reducer Bushing $\frac{1}{2}$ " to $\frac{1}{4}$ "	4
14	2505530	90° Swivel Elbow $\frac{1}{4}$ " – 18 NPT	2
15	2505559	Hose, Hydraulic $\frac{1}{4}$ " ID x 144"	2

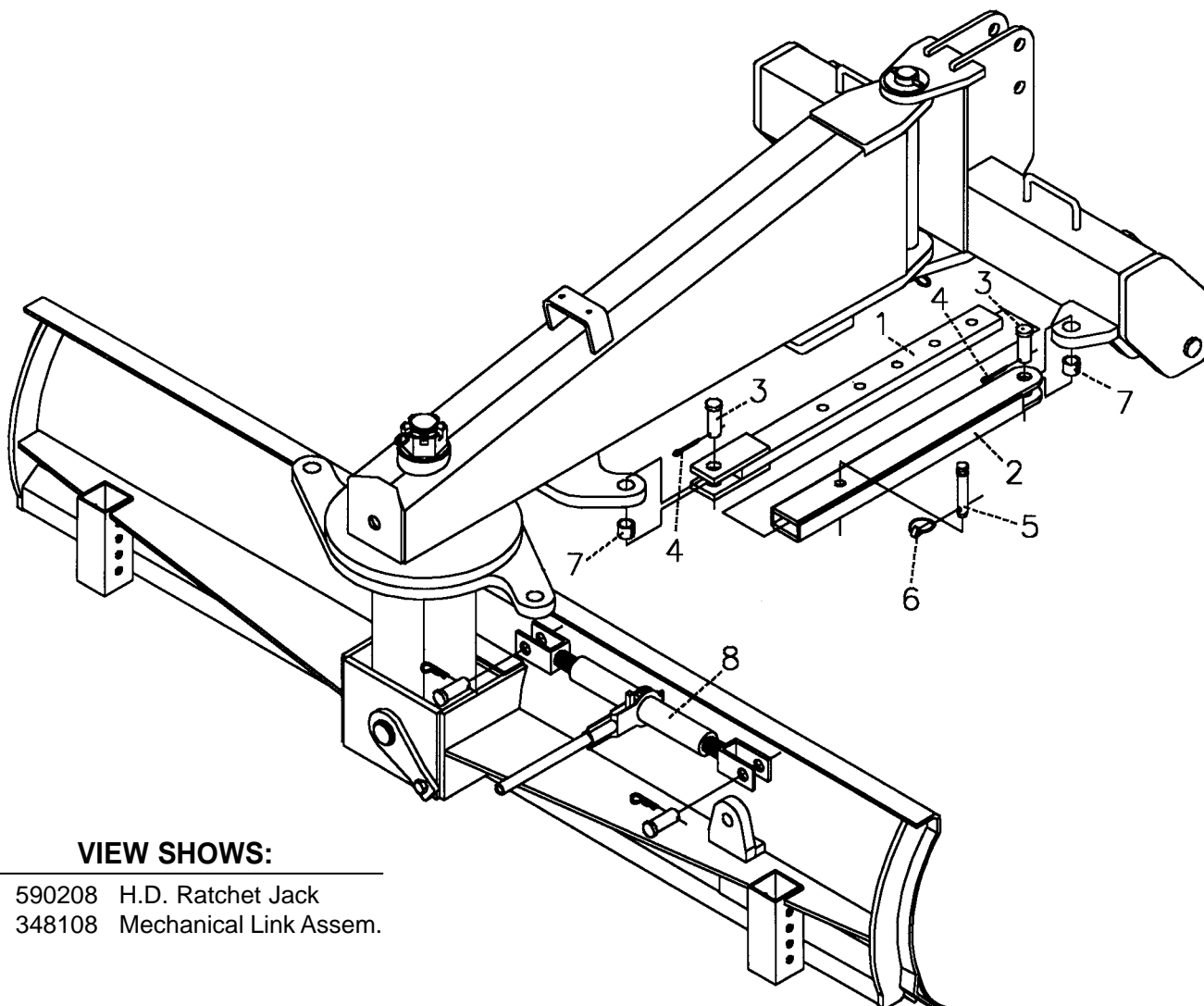
4 x 16 CYLINDER KIT FOR XHB-1096 & XHB-1120



VIEW SHOWS:

(2) 348110 4 x 16 Hyd. Cyl. Kit

REF. NO.	PART NO.	DESCRIPTION	NO. REQ'D.
	348110	4 x 16 Cylinder Kit (#1 thru #4)	2
1	2504204	Cylinder, Hydraulic 4 x 16 ASAE	2
2	2505507	Reducer Bushing 1/2" to 1/4"	8
3	2504113	Adapter, 90° O-Ring	4
4	2505538	Hose, Hydraulic 1/4" ID x 108"	4



VIEW SHOWS:

- (1) 590208 H.D. Ratchet Jack
- (1) 348108 Mechanical Link Assem.

MECHANICAL LINK KIT FOR XHB-1096 & XHB-1120

REF. NO.	PART NO.	DESCRIPTION	NO. REQ'D.
	348108	Mechanical Link Kit (#1 thru #7)	2
1	348083	Adjustment Bar Weldment (Male)	2
2	348086	Adjustment Bar Weldment (Female)	2
3	863068	Pin, Headed	4
4	2504007	Pin, Cotter $\frac{3}{16}$ " x $1\frac{3}{4}$ "	4
5	590001	Pin, Toplink – Cat. I (AK-8)	2
6	590006	Pin, Linch $\frac{7}{16}$ " (AK-14)	2
7	2505035	Bushing, Spring $1\frac{1}{4}$ " OD x 1" ID x 1"	4

RATCHET JACK FOR XHB-1096 & XHB-1120

REF. NO.	PART NO.	DESCRIPTION	NO. REQ'D.
8	590208	Heavy Duty Ratchet Jack	1

LIMITED WARRANTY

Worksaver warrants to the original purchaser of any new Rear 3 Pt. Blade (Models XHB-1096 and XHB-1120), that the equipment be free from defects in material and workmanship for a period of one (1) year for non-commercial, state, and municipalities'. Use ninety (90) days for commercial use from date of retail sale.

Replacement or repair parts installed in the equipment covered by this warranty are warranted for ninety (90) days from the date of purchase of such part or to the expiration of the applicable new equipment warranty period, whichever occurs later.

Such parts shall be provided at no cost to the user during regular working hours. Worksaver reserves the right to inspect any equipment or parts which are claimed to have been defective in material or workmanship.

SPECIAL WARRANTY PROVISION

Warranty shall only apply to defects in material and workmanship. In no case shall Worksaver, Inc. be liable to the purchaser for the bending or breakage of any part of the blade by abuse or misuse, such as striking hidden objects, grubbing stumps, or using tractors larger than the blades maximum horsepower rating whether intentional or unintentional.

DISCLAIMER OF IMPLIED WARRANTIES & CONSEQUENTIAL DAMAGES

Worksaver's obligation under this warranty, to the extent allowed by law, is in lieu of all warranties, implied or expressed, including implied warranties of merchantability and fitness for a particular purpose and any liability for incidental and consequential damages with respect to the sale or use of the items warranted. Such incidental and consequential damages shall include but not be limited to: transportation charges other than normal freight charges; cost of installation other than cost approved by Worksaver; duty; taxes; charges for normal service or adjustments; loss of crops or any other loss of income; rental of substitute equipment, expenses due to loss, damage, detention or delay in the delivery of equipment or parts resulting from acts beyond the control of Worksaver.

THIS WARRANTY SHALL NOT APPLY:

1. To vendor items which carry their own warranties, such as hydraulic cylinders, hoses, tires, and tubes.
2. If the unit has been subjected to misapplication, abuse, misuse, negligence, fire or other accident.
3. If parts not made or supplied by Worksaver have been used in connection with the unit, if, in sole judgement of Worksaver such use affects its performance, stability, or reliability.
4. If the unit has been altered or repaired outside of an authorized Worksaver dealership in a manner which, in the sole judgement of Worksaver affects its performance, stability or reliability.
5. To normal maintenance service and normal replacement items such as gearbox lubricant, hydraulic fluid, worn blades, or to normal deterioration of such things as belts and exterior finish, due to use or exposure.
6. To expendable or wear items such as teeth, chains, skid shoes, cutting edges, and other items that in the company's sole judgement is a wear item.

NO EMPLOYEE OR REPRESENTATIVE OF WORKSAVER IS AUTHORIZED TO CHANGE THIS WARRANTY IN ANY WAY OR GRANT ANY OTHER WARRANTY UNLESS SUCH CHANGE IS MADE IN WRITING AND SIGNED BY WORKSAVER'S SERVICE MANAGER, POST OFFICE BOX 100, LITCHFIELD, ILLINOIS 62056-0100.



SAFETY PRECAUTIONS

MOST ACCIDENTS OCCUR BECAUSE OF NEGLIGENCE OR CARELESSNESS.

AVOID NEEDLESS ACCIDENTS BY FOLLOWING ALL OF THE SAFETY PRECAUTIONS LISTED BELOW.

- Machinery should be operated only by those who are responsible and are authorized to do so.
- Stop the engine, lower all equipment, lock the brakes, and remove the ignition key before dismounting from the tractor.
- Never stand between tractor and implement while tractor is being backed to hitch.
- Loose fitting clothing should not be worn, to avoid catching on various parts.
- Detach implement in area where children normally do not play.
- When performing adjustments or maintenance on an implement, first lower it to the ground or block it securely at a workable height.
- Only a qualified operator should be permitted on tractor when in operation; no riders allowed.
- Make certain everyone is in the clear before starting tractor or raising or lowering equipment.
- Operate the tractor and implement only while seated in the driver's seat.
- Reduce speed when transporting mounted implements to avoid bouncing and momentary loss of steering control.
- A heavy load can cause instability of the tractor. Use extreme care during road travel. Slow down on turns and watch out for bumps. Tractor may need front counter-weights to counter-balance the weight of the implement.
- Reduce speed on hillsides or curves so there is no danger of tipping.
- Avoid driving too close to the edge of ditches or creeks.
- Do not transport implement on public roads without reflectors and slow moving vehicle emblem in daylight and with approved warning lights at night and other periods of poor visibility.
- Due to the width of some implements, use extra caution on highways, farm roads, and when approaching gates.
- Always be sure the implement is in the proper position for transport.
- Keep alert and watch the front as well as the rear when working with the implement.

OWNER'S MANUAL

MODEL NO.'s
XHB-1096
XHB-1120

**WHEN ORDERING
REPAIR PARTS,
ALWAYS GIVE
THE FOLLOWING
INFORMATION:**

1. PART NUMBER
2. PART DESCRIPTION
3. MODEL NUMBER
4. NAME OF ITEM

APRIL 1998

**MAKE EVERY DAY
A HOLIDAY
FROM ACCIDENTS**

3 PT. REAR BLADE

For Cat. II
3 Pt. Hitch Tractors

WORKSAVER, INC.

P.O. BOX 100 LITCHFIELD, IL 62056-0100 (217) 324-5973

WEB: <http://www.worksaver.com> E-MAIL: sales@worksaver.com