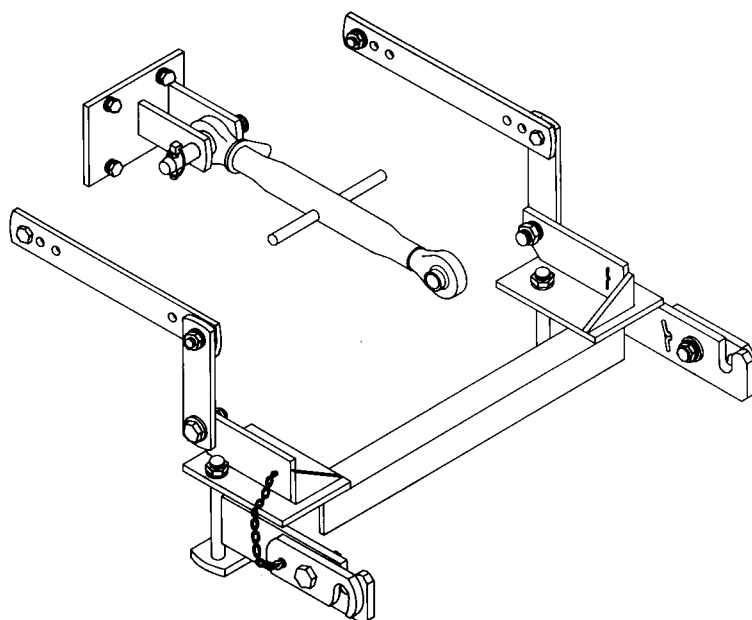


# OWNER'S MANUAL

**MODEL NO.  
HK-201**

## **CAUTION**

For Safe Operation  
Read Rules And  
Instructions Carefully



## **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.

## **3 Pt. Hitch Adapter Kit HK-201**

**For John Deere Models M & MT Tractors**

**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.**

# 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 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 EQUIPMENT.

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### UNDERSTAND SIGNAL WORDS

A signal word – DANGER, WARNING or CAUTION – is used with the safety-alert symbol. DANGER identifies the most serious hazards.

DANGER and WARNING safety signs are located near the specific hazard. CAUTION safety signs list general precautions.

The safety-alert symbol is also used in this manual to call attention to safety messages.



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## 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 owner's responsibility, if this equipment 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.



Most accidents occur because of neglect or carelessness. Keep all helpers and bystanders twenty-five feet (25') from an operating tractor and implement. Only properly trained people should operate this equipment. It is recommended the tractor be equipped with a Rollover Protection System (ROPS) and a seat belt that is used. Always stop the tractor, set brake, shut off the tractor engine, remove the tractor key, and lower implement to the ground before dismounting tractor. Never leave equipment unattended with the tractor running.



Please remember it is important that you read and heed the safety signs on the hitch kit, and the safety rules set forth. Clean or replace all safety signs if they cannot be clearly read and understood. They are there for your safety as well as the safety of others. The safe use of this equipment is strictly up to you, the operator.

# Safety Information



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 of the hitch kit, 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 of the hitch kit.



Always use two people to handle heavy, unwieldy components during assembly, installation, removal of the hitch kit.



Never place any part of your body where it would be in danger if movement should occur during assembly, installation, operation, maintaining, repairing, removal of the hitch kit.



Never place yourself between the tractor and implement 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.



A heavy load can cause instability of the tractor. Use extreme care during travel. Slow down on turns and watch out for bumps. The tractor may need front counter-weights to counter-balance the weight of the implement.



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.



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 equipment, check over all pins, bolts and connections to be sure all are securely in place. Replace any damaged or worn parts immediately.



Do not allow anyone who is not familiar with the safety rules and operation instructions to use this equipment.


















Never allow children to operate or be around equipment.



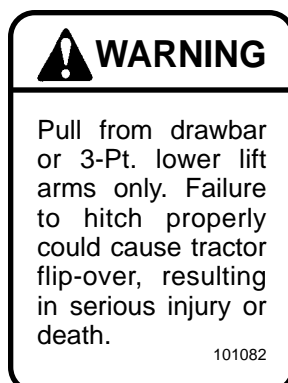
Use stabilizer bars, adjustable sway chains, or sway blocks on your tractor lift arms to keep implements from swinging side to side. Adjust as tightly as practical for best performance.

# Safety Information

-  Keep alert and watch the front as well as the rear when working with equipment.
-  When maneuvering close to buildings or passing through narrow areas, be sure to allow sufficient clearance for the implement and tractor.
-  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.
-  When removing, or adjusting equipment, be sure that your feet are never under the implement.
-  Use extreme caution when backfilling deep holes or trenches.
-  Be careful to avoid catching the implements on stumps or other immovable objects.
-  Use extra care when working on slopes.
-  Avoid excessive speed during operation.
-  Make implement adjustments only when the implement is attached to the tractor.
-  When using rear blades or box scrapers in a reverse position, use extra care. **Do not ram implement** into piles of dirt. Tractor lift arms and the implement 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 equipment.
-  If a safety shield or guard is removed for any reason, it must be replaced before the machine is again operated. Always use, and maintain in place, all power take off guards furnished with the tractor as well as the power take off guards and shields furnished with the implement.
-  Never operate tractor and cutter under trees with low hanging limbs. Operators can be knocked off the tractor and then run over by the implement.

## SAFETY SIGNS

**This SAFETY SIGN is located on the frame of your hitch kit. Obey ALL Safety Warnings.**



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

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# INSTRUCTIONS

The Model HK-201 hitch adapter kit is designed for the John Deere Model M and MT tractors.

This kit uses the existing hydraulic lift on the tractor to raise and lower the 3-pt. hitch.

**NOTE:** This hitch kit has a “fixed” 26” pull pin spacing. This “fixed” spacing will **NOT** work with 3-pt. lift type plows. Other 3-pt. equipment can be used with no problem.

## PACKING

The adapter kit is shipped in knocked down condition so as to command the lowest freight rates. Shipment consists of **1 carton** if by RPS or truck, **2 cartons** if by UPS.

## TRACTOR PREPARATION

Be sure tires and rims are in good condition. Inflate tires to the proper recommended air pressure.

Check the tractor’s hydraulic system. Refer to your tractor operator’s manual or dealer for any adjustments necessary to put the hydraulic system in good working order. (I&T shop manuals will list most specifications and adjustment instructions – available from most farm equipment dealers.)

Check the shield over the PTO stub shaft. Make sure it is in good condition and bolted securely to the tractor. Purchase a new shield if old shield is damaged or missing. (You may have to use a tractor salvage yard for replacement parts on older tractors.)

It is recommended that a ROPS (Roll-Over Protection Structure) be installed on all tractors. Contact your local dealer for a ROPS for your tractor.

This hitch kit is designed to allow the tractor to handle implements or loads that do not exceed 500 lbs. at a point 24 inches to the rear of the lift arms. The tractor and the hitch may be damaged if you use heavier loads.

**NOTE:** The John Deere Model M and MT tractors are lightweight tractors and the front end of the tractor will be lighter when a load is picked up with a 3-pt. hitch.



**ALWAYS OBEY ALL SAFETY RULES!  
ALWAYS BE CAREFUL!**

## ASSEMBLY

1. Remove belt pulley, if your tractor is so equipped, or the belt pulley cover plate from your tractor.
2. Attach top link bracket (ref. #7) to tractor in location formerly occupied by belt pulley and bolt securely in place using two (2)  $\frac{3}{8}$ ” x 1” hex head bolts (ref. #19) and two (2)  $\frac{1}{2}$ ” x 1” hex head bolts (ref. #20). Use a good liquid gasket material to obtain an oiltight connection.
3. Attach top link (ref. #8) to top link bracket (ref. #7), using top link pin (ref. #9) and linchpin (ref. #10).

4. Bolt hitch main frame (ref. #1) to your tractor drawbar with main frame on top surface of drawbar and bolting piece (ref. #3) on underside of drawbar using  $\frac{5}{8}$ ” x  $6\frac{1}{2}$ ” hex head bolts, lock washers, and nuts (ref. #15, 16, & 18). Leave these bolts finger tight for now. Center the hitch frame (ref. #1) on the tractor drawbar. Place the two angle stops (ref. #2) in position and bolt to the hitch frame. The angle stops keep the hitch frame centered. Now tighten all of these bolts.
5. Assemble two tie bars (ref. #6) to main frame as shown, using two (2)  $\frac{5}{8}$ ” x 2” hex head bolts, lock washers, flat washers, and nuts with spacer (ref. #11) inserted in adjusting link as shown.
6. Attach adjusting link to tie bar (ref. #6) using  $\frac{3}{8}$ ” x  $1\frac{1}{2}$ ” hex head bolts, flat washers, and lock nuts. Leave lock nut slightly loose.
7. Disengage tractor drawbar set pins so that drawbar is free to move up and down. Attach tie bar (ref. #6) to tractor lift arms using  $\frac{3}{8}$ ” x  $1\frac{1}{2}$ ” hex head bolts, flat washers, and lock nuts. Leave lock nut slightly loose.
8. Insert two spacers (ref. #11) in main frame. Bolt pull pin lock plates (ref. #4) to main frame using  $\frac{5}{8}$ ” x 2” hex head bolts, flat washers, lock washers, and nuts.
9. Attach chain (ref. #13) to main frame using  $\frac{1}{8}$ ” x  $1\frac{1}{2}$ ” cotter pin (ref. #12).
10. Carefully raise and lower the hitch kit using your tractor’s hydraulic system. Check to see that all parts are working properly.



**CAUTION!**



**Read manual before operating.**

## SAFETY TRAINING

- Know your controls and how to stop tractor, engine, and PTO quickly in an emergency. **READ THIS MANUAL AND THE ONE PROVIDED WITH YOUR TRACTOR.**
- To avoid accident or injury, do not allow anyone to operate this equipment without proper instructions. Any person who operates this equipment must be instructed in and be capable of the safe operation of the tractor, implement and all controls.
- Do not allow children to operate this machine.



**WARNING!**



**MAKE SURE THAT ALL OPERATING AND SERVICE PERSONNEL KNOW THAT IN THE EVENT HYDRAULIC FLUID PENETRATES THE SKIN, IT MUST BE SURGICALLY REMOVED WITHIN A FEW HOURS BY A DOCTOR FAMILIAR WITH THIS FORM OF INJURY, OR GANGRENE MAY RESULT.**

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.

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.

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



## CAUTION!



When using 3-pt. hitch rear blade in a reverse position (bulldozing), use extra care. **DO NOT RAM BLADE** into dirt or packed snow piles! Tractor lift arms and the 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. This is especially of concern when removing snow.

## PREPARATION

- Always wear relatively tight and belted clothing to avoid entanglement in moving parts. Wear sturdy, rough-soled work shoes and protective equipment for eyes, hands, and hearing. Never operate tractor in bare feet, sandals, or sneakers.
- Operate only in daylight or good artificial light.
- Ensure implement is properly mounted, adjusted and in good operating condition.
- Ensure that all safety shielding and safety signs are properly installed and in good condition.

## OPERATION

1. Position implement pull pins in slots provided in main frame (ref. #1) and lock in place with pull pin lock plates (ref. #4). Insert  $\frac{3}{8}$ " x 2 $\frac{1}{2}$ " cotter pin (ref. #12) in holes provided and spread slightly to provide retention.
2. Attach top link to implement center link bracket using top link pin and secure with linchpin.
3. Adjust top link length by rotating top link barrel either left or right for proper operation of implement. The front to rear attitude or "pitch" of the mounted implement is accomplished by adjusting the toplink.
4. Lock top link barrel in place by tightening barrel lock firmly against tractor end of top link barrel.



## 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.

## MAINTENANCE

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

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

Periodically oil the following:

- a. Top link (upper 3rd link) threads
- b. Pivot bolt connections

When completing a maintenance or service function, make sure all safety shields and devices are installed before placing unit in service.

## 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.
- Do not run engine indoors - exhaust gases contain carbon monoxide, an odorless and deadly poison.
- Sand areas where paint is chipped or worn and repaint to prevent rust. Lubricate all pivot locations on hitch kit to prevent moisture damage during storage.



## WARNING!



- ▲ **Keep clear of rotating parts; stay on tractor seat until all motion has stopped.**
- ▲ **Be sure tractor engine is off and key is removed before making any adjustments.**
- ▲ **Do not get under machine to make measurements or adjustments without securely blocking implement first.**

U **Keep children away from danger all day, every day.**

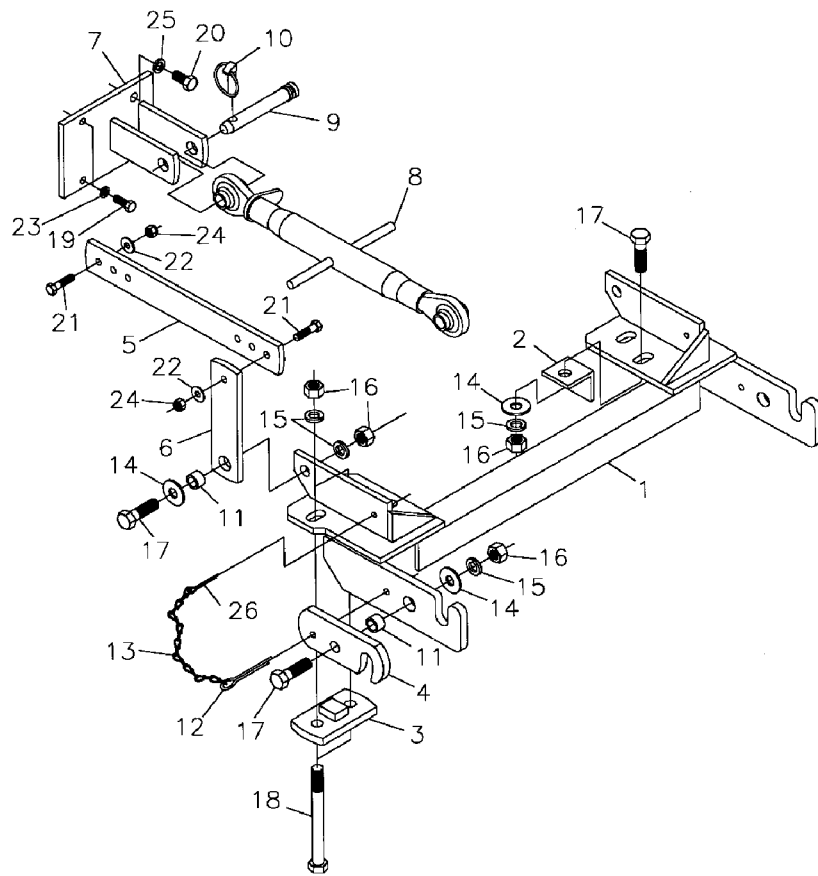
U **Equip tractors with rollover protection (ROPS) and keep all machinery guards in place.**



## WARNING

Pull from drawbar or 3-Pt. lower lift arms only. Failure to hitch properly could cause tractor flip-over, resulting in serious injury or death.

101082



## HK-201 3PT. ADAPTER KIT REPAIR PARTS

REF. NO.	PART NO.	DESCRIPTION	NO. REQ'D.
1	861210	Main Frame Weldment	1
2	861229	Angle Stop	2
3	861212	Bolting Piece Weldment	2
4	861211	Pull Pin Lock Plate	2
5	861214	Adjusting Link	2
6	861209	Tie Bar	2
7	861213	Top Link Bracket Weldment	1
8	590299	Top Link, Cat. I (AK-513F)	1
9	590002	Top Link Pin, Cat. I (AK-9)	1
10	590006	Linch Pin $\frac{7}{16}$ " (AK-14)	1
11	861217	Pipe Spacer	4
12	2504148	Cotter Pin $\frac{3}{8}$ " x $2\frac{1}{2}$ "	2
13	2401025	#3 Double Loop Chain, 9 Links	2
14	2501005	Washer $\frac{5}{8}$ " Flat	6
15	2502007	Washer $\frac{5}{8}$ " Springlock	10
16	2500013	Nut $\frac{5}{8}$ " – 11NC Full Hex	10
17	2503048	Bolt $\frac{5}{8}$ " – 11NC x 2" Hex Head	6
18	2503060	Bolt $\frac{5}{8}$ " – 11NC x $6\frac{1}{2}$ " Hex Head	4
19	2503011	Bolt $\frac{3}{8}$ " – 16NC x 1" Hex Head	2
20	2503062	Bolt $\frac{1}{2}$ " – 13NC x 1" Hex Head	2
21	2503006	Bolt $\frac{3}{8}$ " – 16NC x $1\frac{1}{2}$ " Hex Head	4
22	2501004	Washer $\frac{3}{8}$ " Flat	4
23	2502008	Washer $\frac{3}{8}$ " Springlock	2
24	2500042	Nut $\frac{3}{8}$ " – 16NC Hex Nylock	4
25	2502002	Washer $\frac{1}{2}$ " Springlock	2
26	2504015	Cotter Pin $\frac{1}{8}$ " x $1\frac{1}{2}$ "	2
NS	101082	Decal – Warning (Pull From Drawbar)	1



## 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.  
HK-201**

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

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

SEPTEMBER 1996

***Please work, drive, play and live each day with care and concern for your safety and that of your family and fellow citizens.***

**MAKE EVERY DAY  
A HOLIDAY  
FROM ACCIDENTS**

## **3 Pt. Hitch Adapter Kit** **For John Deere Models M & MT**

### **WORKSAVER LIMITED WARRANTY**

W orksaver warrants its implements, parts and accessories to be free from defects in materials and workmanship for a period of six (6) months from date of purchase. Upon written approval, W orksaver will repair or exchange without charge any part, which upon examination by W orksaver or its authorized agent, shall disclose to be defective.

This does not apply to (1) parts that have worn out in normal use, (2) parts broken because of improper assembly or operation by the customer, (3) parts accidentally damaged, (4) failure of parts traceable to improper care, (5) parts failing through use of implement for purposes other than those for which it was designed.

The obligations assumed by W orksaver and the limitations expressed herein are in lieu of all other warranties expressed or implied.