

# OWNER'S MANUAL

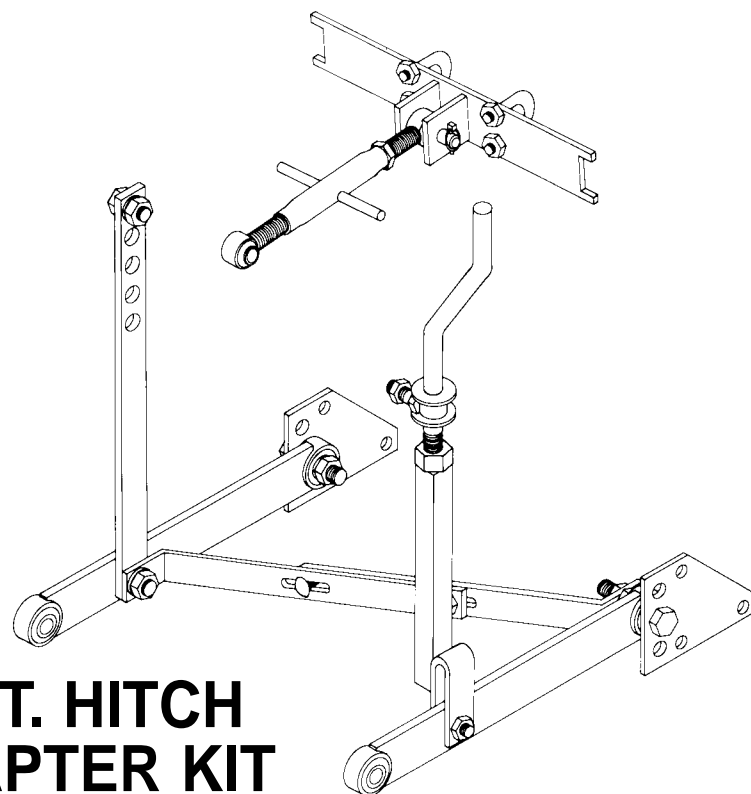
**MODEL NO.'s**  
**HK-95**  
**HK-96**

## **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 FOR I.H.C. MODELS**

HK-95 – For IHC/Farmall Models Super A, 100, 130, and 140 with standard drawbar.

HK-96 – For IHC/Farmall Models 100, 130, and 140 with one-point fast hitch.

**Packing  
Assembly & Mounting  
Maintenance**

**Operating  
Instructions  
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 Worksaver dealer or representative.**

# 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 EQUIPMENT.

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## 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.

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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 machine. It is the equipment 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 operating equipment. Only properly trained people should operate this tractor and attached implement. It is recommended the tractor be equipped with a Roll-Over 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.

# 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, 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 of the hitch kit.
-  Always use two people to handle heavy, unwieldy components during assembly, installation, removal, or moving 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, or moving the implement.
-  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. An unstable tractor could steer badly and possibly tip over, causing injury or death.
-  Never use alcoholic beverages or drugs which can hinder alertness or coordination while operating equipment. Consult your doctor about operating tractor and implement 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 any implement, 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.
-  Do not exceed lift capacity of the tractor hitch.
-  Keep alert and watch the front as well as the rear when working with the attached implements.

# Safety Information

-  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.
-  Pull from drawbar or lower 3 pt. arms only. Failure to hitch properly could cause tractor to flip over, resulting in serious injury or death.
-  Use extreme caution when backfilling deep holes or trenches.
-  Use care when working on slopes.
-  Avoid excessive speed during operation.
-  Make adjustments only when the implement is attached to the tractor.
-  When using a 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 rear blades, box scrapers, or other ground engaging implements.
-  NEVER operate any PTO driven implement unless tractor PTO guard is in place and PTO driveline shielding is in place.
-  Always shut off tractor and shift to “Park” or set brakes when leaving tractor. Always lower implement to ground. Remove key when leaving tractor unattended.
-  Before operating equipment: if you have any questions regarding the proper assembly or operation, contact your dealer or representative.

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

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.

# INSTRUCTIONS

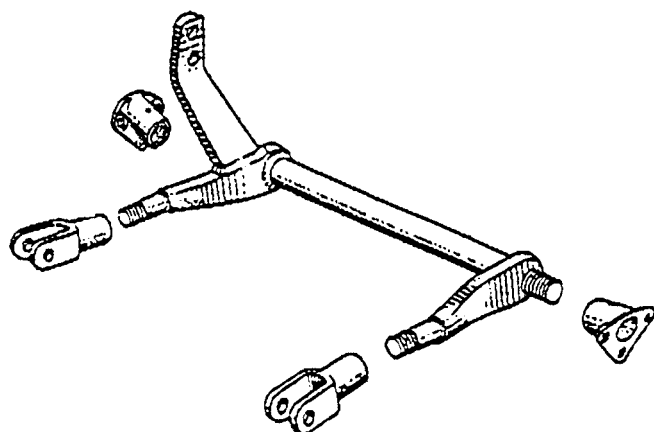
## TRACTOR PREPARATION

The Models HK-95 hitch and HK-96 hitch adapter kits are designed for the IHC/Farmall Model Super A, 100, 130, and 140 tractors.

**NOTE:** The Model HK-95 hitch kit is for the above tractors equipped with a standard drawbar.

**NOTE:** The Model HK-96 hitch kit is for the IHC/Farmall 100, 130, and 140 tractor models equipped with one-point fast hitch.

These kits use the existing hydraulic lift on the tractor to raise and lower the 3-pt. hitch. **NOTE:** These tractors must be equipped with a hydraulic lift and a rear lift assembly on the back of the tractor.



The rear lift assembly is pictured above. It was mounted on the rear wheel fenders behind the operator's seat. It was used to raise and lower rear cultivator gangs and a one bottom mounted plow. The rear lift assembly was operated by linkage on the left side of the tractor going forward to the left lift arm on the hydraulic lift system.

If your tractor is not equipped with these parts, you will have to purchase them from a tractor salvage yard and install on your tractor before the HK-95 hitch kit can be used.

Before installing the HK-95 adapter kit, it is necessary to remove the existing drawbar assembly.

Before installing the HK-96 adapter kit, it is necessary to remove the hitch beam with the one-point fast hitch socket.

Check the threaded holes that go into the tractor housing and make sure the threads are in good condition and that the holes are clean.



**If an air hose is used to blow any loose rust or dirt from the holes, be sure safety glasses are used to prevent particles from entering an eye.**

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 ROPS for your tractor.



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

## PACKING

The adapter kit is shipped in knocked down condition so as to command the lowest freight rates. Shipment consists of **2 cartons for the HK-95** and **1 carton for the HK-96**.



**Before installing the adapter kit on the tractor, locate the tractor on a level surface, engage the parking brake, shut off the tractor and remove the key.**

## ASSEMBLY – HK-95

(Tractors with standard drawbar)

1. (Before assembling the kit it is necessary to remove the standard drawbar from the tractor.) Bolt the lift arm mounting plate (item #2) on the inside of each bullgear wheel housing using the existing tractor bolts. (NOTE: be sure these bolts and lockwashers are in good condition or replace them with new.)

2. Refer to the parts diagram and install the lift arms (item #1) to the inside of the mounting plates (item #2) as shown. Note that a lockwasher is installed on each side of the lift arm ball. This is for proper spacing to provide room for the arms to swing sideways for attaching to an implement. Tighten the bolts (items #3 & 4) and nuts (item #6) securely.
3. Install the sway bar (item #17) to the R.H. lift arm bolt just installed and secure it with the  $\frac{7}{8}$ -9NC hex nylock nut (item #7). NOTE: Do not over tighten the nut as the sway bar must be free to pivot.
4. Install the other sway bar (item #17) and the lift bar (item #21) to the inside of the L.H. lift arm using the  $\frac{15}{16}$ " long bushing (item #29) and hardware items #22, 23 & 24. Attach the upper end of the lift bar to the tractor lift arm using the  $\frac{9}{16}$ " long bushing (item #28) and hardware items #25, 26 & 27. Tighten these bolts and nuts securely. Install the carriage bolts, lockwashers and nuts (items #18, 19, 20) to fasten the two sway bars together.
5. Install the crank assembly (items #30 & 31) to the tractor upper R.H. lift arm as shown on the parts diagram.
6. Install the top link bracket (item #8) to the tractor using the U-bolts, lockwashers and nuts (items #9 & 10). Install the top link barrel assembly and the hitch is ready to use.

## ASSEMBLY – HK-96

(Tractors with one-point hitch)

1. Bolt the lift arm mounting plates (item #7) on the inside of each bullgear wheel housing using the existing bolts. Be sure these bolts and lockwashers are in good condition or replace them with new.
2. Refer to the parts diagram and install the lift arms (item #1) to the inside of the mounting plates (item #7) as shown. Note that a lockwasher is installed on each side of the lift arm ball. This is for proper spacing to provide room for the arms to swing sideways for attaching to an implement. Tighten the bolts (item #8) and nuts (item #10) securely.
3. Refer to the parts diagram and install the lift brackets (item #2). The angle iron bracket (item #11) and bushings (item #12) mount to the inside of the lift bracket on the R.H. lift arm. Attach the existing tractor stabilizer bar to the angle iron bracket using the other bushing (item #12).
4. Attach the tractor lift arms to the lift bracket (item #2) just installed, using the existing tractor hardware.
5. Refer to the parts diagram and install the top link bracket (item #14) using the muffler clamp U-bolt (item #15).
6. Install the top link barrel assembly and the hitch is ready to use.

## OPERATION

Three hole positions are provided on the lift arm mounting plates (item #2) and five hole positions on the L.H. lift bar (item #21). Choose the hole positions that best suit your implement. Use the screw adjustment to level the R.H. lift arm with the L.H. arm or to provide the proper "pitch" for mounted plows. Adjust the top link assembly to level the implement fore and aft.

The adjustable screw type top link can also be shortened or lengthened to adapt different implements and can be used to obtain various degrees of pitch on the implements you are using.

The stabilizer sway bars (item #17) should be used whenever possible to add strength and rigidity to the hitch.

This kit is designed to lift up to 600 lbs., but, of course, lifting capacity is dependent on the pressure and condition of the tractor's hydraulic system. You will also find that the closer the load is kept to the tractor, the more you will be able to lift.



**CAUTION!**



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



**CAUTION!**



**When using a 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.**

## MAINTENANCE

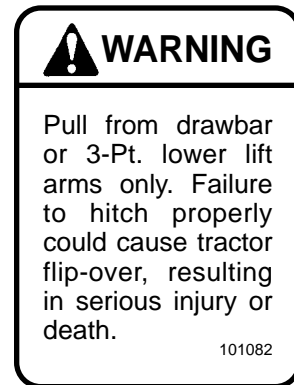
Check all bolts and nuts to be sure they are tight. Periodically oil the following:

- a. Top link (upper 3rd link) threads
- b. Ball sockets
- c. Leveling assembly threads

# SAFETY SIGNS

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**REPLACE SAFETY SIGNS  
IF DAMAGED OR MISSING!**

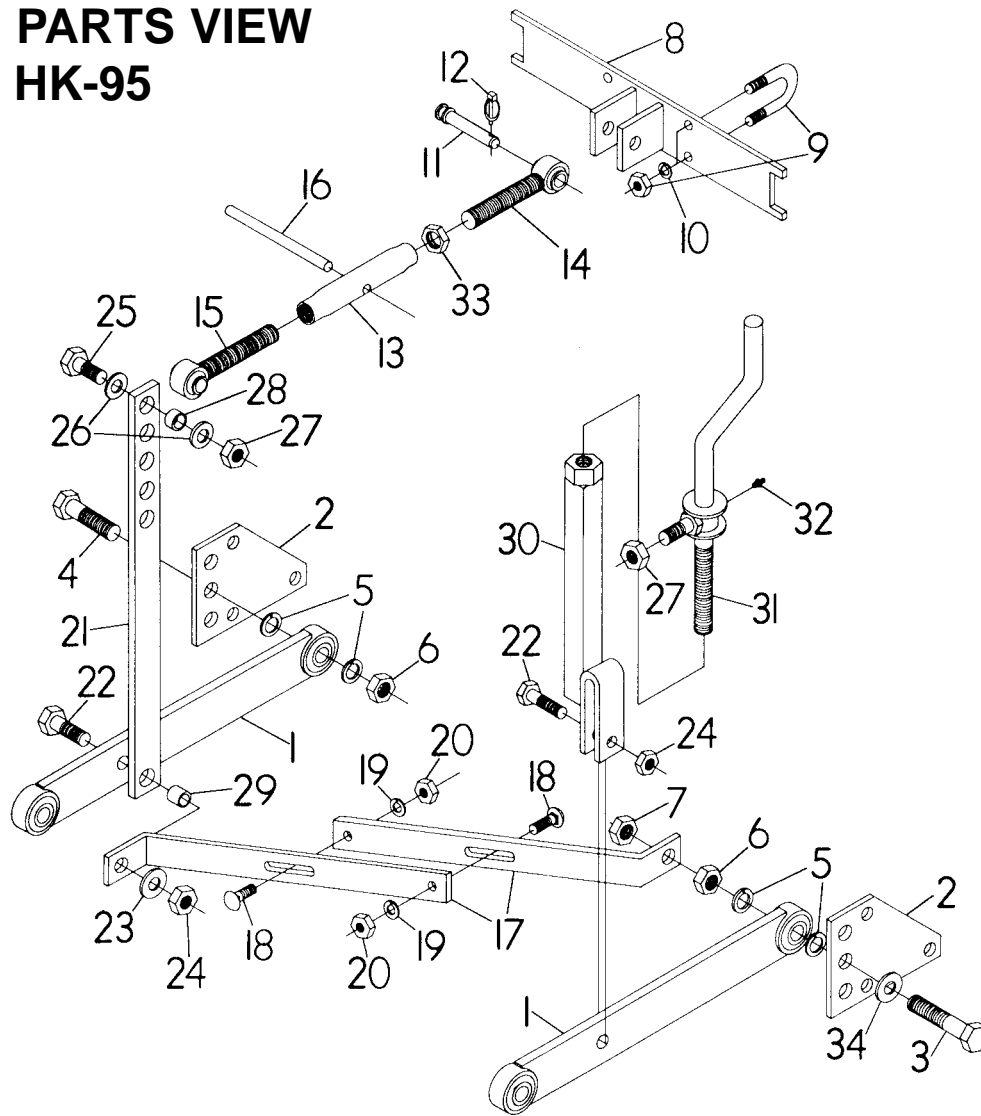


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**ALWAYS OBEY ALL SAFETY RULES!!  
ALWAYS BE CAREFUL!!**

- U Keep children away from danger all day, every day.
- U Equip tractors with roll-over 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.

# EXPLODED PARTS VIEW FOR HK-95



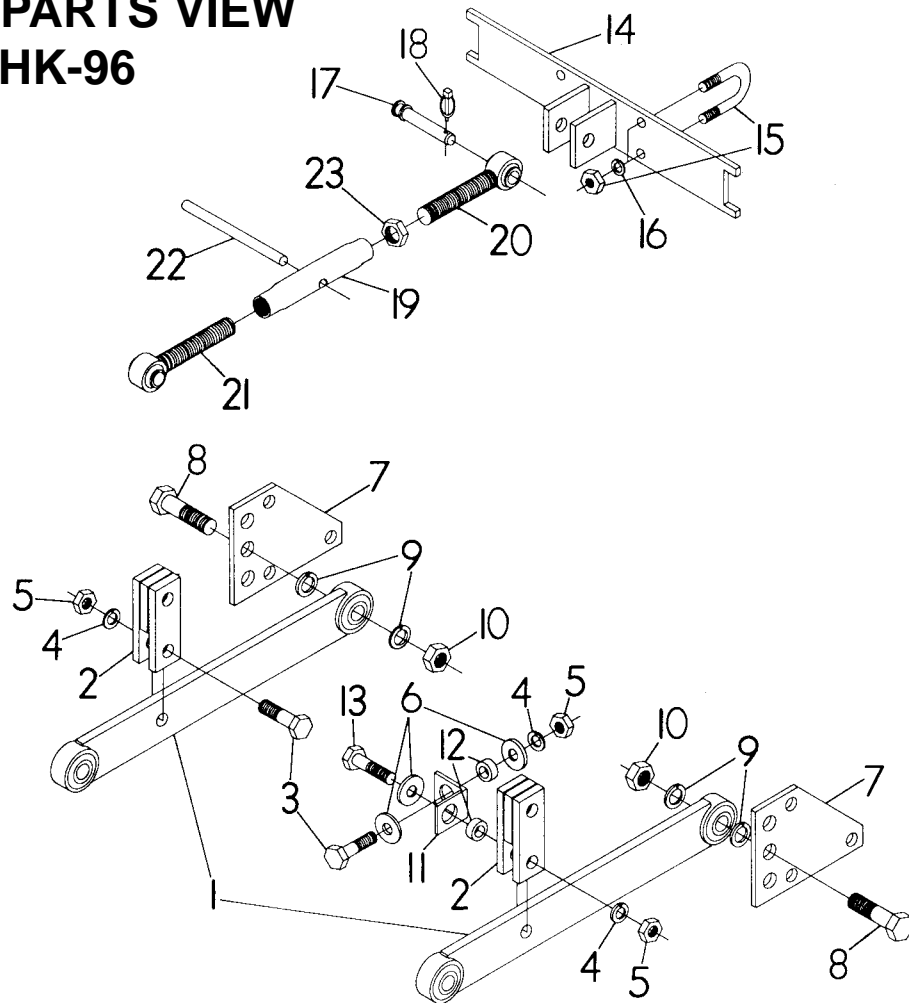
## HK-95 PARTS LIST

Ref. No.	Part No.	Description	No. Req'd.
1	862332	Lift Arm	2
2	862338	Lift Arm Attachment Plate	2
3	2503176	Bolt, $\frac{7}{8}$ "-9NC x $4\frac{1}{2}$ " Hex Head Grade 2	1
4	2503082	Bolt, $\frac{7}{8}$ "-9NC x $3\frac{1}{2}$ " Hex Head Grade 2	1
5	2502005	Washer, $\frac{7}{8}$ " Springlock	4
6	2500079	Nut, $\frac{7}{8}$ "-9NC Hex Jam	2
7	2500049	Nut, $\frac{7}{8}$ "-9NC Hex Nylock	1
8	862341	Top Link Bracket	1
9	2504115	Muffler Clamp, $1\frac{3}{4}$ " HD w/nuts	2
10	2502008	Washer, $\frac{3}{8}$ " Springlock	4
11	590001	Cat. I Top Link Pin	1
12	590006	$\frac{7}{16}$ " Spring Ring Linchpin	1
13	590277	Top Link Barrel	1
14	590024	Top Link End R.H. (AK-49)	1
15	590023	Top Link End L.H. (AK-48)	1
16	590145	Knock-In Handle	1
17	862350	Sway Bar	2
18	2503102	Bolt, $\frac{1}{2}$ "-13NC x $1\frac{1}{2}$ " Carriage	2
19	2502002	Washer, $\frac{1}{2}$ " Springlock	2
20	2500003	Nut, $\frac{1}{2}$ "-13NC Full Hex	2

Ref. No.	Part No.	Description	No. Req'd.
21	862352	Lift Arm Lift Bar	1
22	2503088	Bolt, $\frac{5}{8}$ "-11 x $2\frac{1}{2}$ " Hex Head Grade 5	2
23	2501005	Washer, $\frac{5}{8}$ " Flat	1
24	2500041	Nut, $\frac{5}{8}$ "-11NC Hex Nylock	2
25	2503085	Bolt, $\frac{3}{4}$ "-10NC x $2\frac{1}{2}$ " Hex Head Grade 5	1
26	2501002	Washer, $\frac{3}{4}$ " Flat	2
27	2500037	Nut, $\frac{3}{4}$ "-10NC Hex Nylock	2
28	862353	Lift Bar Upper Bushing, 1" O.D. x $\frac{9}{16}$ " Lg.	1
29	862354	Lift Bar Lower Bushing, $\frac{7}{8}$ " O.D. x $1\frac{5}{16}$ " Lg.	1
30	862356	Lift Arm Crank Tube	1
31	264019	Gauge Wheel Crank	1
32	2504049	$\frac{5}{16}$ " Drive Zerk	1
33	2500020	Nut, 1"-8NC Hex Jam	1
NS	101039	Decal - Caution (Stay Clear of Raising Arms)	2
NS	101082	Decal - Warning (Pull From Drawbar)	1
34	2501008	$\frac{7}{8}$ " Flat Washer	1



# EXPLODED PARTS VIEW FOR HK-96



## HK-96 PARTS LIST

Ref. No.	Part No.	Description	No. Req'd.
1	862332	Lift Arm	2
2	862334	Lift Bracket	2
3	2503067	Bolt, 5/8"-11NC x 2 3/4" Hex Head Grade 5	2
4	2502007	Washer, 5/8" Springlock	3
5	2500013	Nut, 5/8"-11NC Full Hex	3
6	2501005	Washer, 5/8" Plain	3
7	862338	Lift Arm Attachment Plate	2
8	2503082	Bolt, 7/8"-9NC x 3 1/2" Hex Head Grade 2	2
9	2502005	Washer, 7/8" Springlock	4
10	2500079	Nut, 7/8"-9NC Hex Jam	2
11	862339	Angle Bracket	1
12	862340	Spacer	2
13	2503134	Bolt, 5/8"-11NC x 3" Hex Head Grade 5	1
14	862341	Top Link Bracket	1
15	2504115	Muffler Clamp, 1 3/4" HD w/nuts	2
16	2502008	Washer, 3/8" Springlock	4
17	590001	Cat. I Top Link Pin	1
18	590006	7/16" Spring Ring Linchpin	1
19	590277	Top Link Barrel	1
20	590024	Top Link End R.H. (AK-49)	1
21	590023	Top Link End L.H. (AK-48)	1
22	590145	Knock-In Handle	1
23	2500020	Nut, 1"-8NC Hex Jam	1
NS	101039	Decal - Caution (Stay Clear of Raising Arms)	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.'s  
HK-95  
HK-96**

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

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

APRIL 1997

*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 Kits**  
**For IHC Super A, 100, 130, 140 Tractors**

### 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.

**W O R K S A V E R , I N C .**

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