

OWNER'S/ OPERATOR'S MANUAL

MODEL NO.'s

HK-90

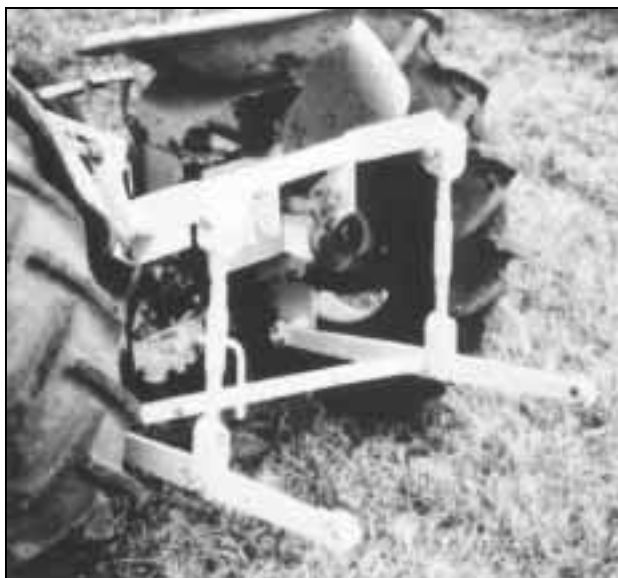
HK-91



CAUTION

For Safe Operation
Read Rules And
Instructions Carefully

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



HK-91

3 PT. HITCH ADAPTER KIT

For I.H.C. Models

HK-90 – Standard Cub Tractor

HK-91 – Cub Lo-Boy (Not for 154, 184, 185 Models)
(Not for Cub Cadet Lawn Tractor)

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 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.

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.

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 (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 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 (continued)

-  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

INTRODUCTION

The Model HK-90 hitch adapter kit is designed for the Farmall and International (I.H.C.) standard model Cub tractor (built between 1947 and 1979). The tractor must have a hydraulic system

The Model HK-91 hitch adapter kit is designed for the I.H.C. model Cub Lo-Boy built between 1955 and 1968. This kit is **NOT** for the International Cub 154 Lo-Boy, the International Model 184, or the International Cub Model 185 Lo-Boy.

Both of these hitch adapter kits use the existing hydraulic lift on the tractor to raise and lower the 3 pt. hitch.

These hitch kits are designed to allow the tractor to handle implements or loads that do not exceed 350 lbs. at a point 24 inches to the rear of the lift arms. The tractor and the hitch may be damaged if you handle heavier loads.

NOTE: The Cub and Cub Lo-Boy 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!**

TRACTOR PREPARATION

If your tractor is equipped with a belly mower, it will be necessary to remove it, the drawbar, and V-belt pulley that is attached to the PTO, in order to install this kit.

NOTE: It is recommended that the belly mower and V-belt pulley on the PTO shaft be removed for easier hitch installation. However, once the hitch is installed, the hitch can be left on the tractor with most belly mowers. It is necessary to remove the cross stabilizer bar when using a belly type mower.

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



CAUTION!



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.

Check the tractor over to make sure it is in good working condition. Check all bolts and make sure they are tight.

Check hydraulic system for operation and oil level.

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

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.



CAUTION!



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 conditions so as to command the lowest freight rates. Shipment consists of **2 cartons**.

ASSEMBLY

For instruction reference, the terms front or rear are based on the operator facing forward on the tractor, thus front is toward the front of the tractor and the rear is to the rear of the tractor.

It is suggested that all the instructions be read before beginning assembly.

Check the exploded view of the hitch kits in this manual to get an idea of the relationship between the parts.



CAUTION!



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.

INSTRUCTIONS (continued)

ASSEMBLY (continued)

HK-90 Assembly: Look at the exploded HK-90 view in this manual and become familiar with the names of the parts and the relationship of the parts to each other.

Directly above the PTO shaft on top of the axle housing there is a small bracket with electrical connections attached. There is a 3 bolt hole pattern drilled and threaded into this part of the axle housing. Remove the bolts from this bracket.

Slide the left side of the rocker shaft assembly beneath this bracket and start two (2) $\frac{1}{2}$ " x $1\frac{1}{2}$ " bolts through both the electrical bracket and the forward plate on the left side of the rocker shaft assembly and into the threaded holes in the tractor. Next, start the front bolt in the three (3) hole pattern. **DO NOT TIGHTEN THESE BOLTS AT THIS TIME.**

NOTE: It will be necessary to lift the rocker shaft assembly over the rear tractor light and place it in front of the light housing.

NOTE: The rear light will be in a more convenient location and away from the top link bracket if it is taken off the tractor battery box bracket, turned upside down and re-bolted to the battery box bracket.

On the right-hand side of the rocker shaft assembly there is a plate extending down with two (2) holes. Bolt the right side rocker assembly brace to this plate with two (2) $\frac{5}{8}$ " x $1\frac{1}{2}$ " bolts. Leave all bolts loose.

On the front and rear of the rear wheel housings there are threaded bolt patterns (3-bolt). The lower end of the right rocker assembly brace bolts to the lower rear hole of the rear bolt pattern on the right wheel housing. Use the $\frac{5}{8}$ " x 2" bolt, flat and lock washer provided.

Now go back and tighten the last six (6) bolts you have installed.

The lift brackets (Ref. #2 & 3) mount to the bolt patterns on the front of the wheel housing, using all three holes. Start all of the bolts first, then tighten them securely.

Go to the instruction section that is common for both the HK-90 and HK-91 hitch kits.

HK-91 Assembly: Look at the exploded HK-91 view in this manual and become familiar with the part names and their relationship to each other.

Remove the seat and seat support frame from your Cub Lo-Boy tractor. This requires the removal of the three (3) $\frac{1}{2}$ " bolts on the left side that go into the top of the axle housing and the two (2) $\frac{5}{8}$ " bolts on the right side that also go into the axle housing.

Install the right side rocker assembly support angle. It uses the same two (2) $\frac{5}{8}$ " bolts that held the right side of the seat support. The support angle goes between the seat support and the axle housing. Leave the bolts loose at this time.

Place the rocker shaft assembly into position. The left side has a steel plate protruding forward that has the same three (3) hole bolt pattern as the seat support bracket. The steel plate on the rocker shaft assembly goes between the seat support and the axle housing. Start the three (3) $\frac{1}{2}$ " bolts into the holes, but leave loose for now.

Insert the two (2) $\frac{5}{8}$ " x $1\frac{1}{2}$ " bolts that connect the right end of the rocker shaft assembly to the right side support angle. When these bolts are in place, go back and tighten the seven (7) bolts that hold the rocker shaft assembly in place.

NOTE: The rear light will be in a more convenient location and away from the top link bracket if it is taken off the tractor battery box bracket, turned upside down, and re-bolted to the battery box bracket.

On the lower inside front of the rear wheel housings there are threaded 3 bolt hole patterns. The left and right lift arm pull brackets mount to the wheel housing with the $\frac{5}{8}$ " x $1\frac{1}{4}$ " bolts and washers provided. Tighten these bolts securely.

Assembly Instructions for both the HK-90 and HK-91 hitch adapter kits: Attach the lift control arm (Ref. #4) to the lift mechanism on your tractor, capturing it with the $\frac{3}{4}$ " flat washer and cotter pin (Ref. #24). Attach the other end of the lift control arm to the upright pivot arm on the left end of the rocker shaft assembly.

NOTE: This is a pivot point! A flat washer should go between the two parts and under the bolt head. This bolt should not be tightened completely. A lock nut is provided for this reason. The nut should be to the inside.

NOTE: The slot provides a floating action for the hitch. Make sure the bolt can slide back and forth in the control arm slot.

Attach the lift arm leveling assemblies (Ref. #6) to the rocker shaft lift bars with the pin and linchpin provided.

Slide the lift arms (Ref. #5) over the pins on the pull brackets, and swing them up between the lower devices on the leveling assemblies and bolt them in place. **Use rear lift arm hole only.**

Place one end of the top link between the top link ears (center of the rocker shaft) and insert the forged pin and secure with a $\frac{7}{16}$ " linchpin.

Stabilizer Arm: To limit side movement of the implement, install the stabilizer bar included in the kit. Loosen the two (2) $\frac{7}{16}$ " carriage bolts and place one end of the bar over the left-hand $\frac{7}{8}$ " pin on the pull bracket. (Same pin that the left-hand lift arm is on.)

INSTRUCTIONS (continued)

ASSEMBLY (continued)

Place the other end up inside the right-hand lower leveling assembly clevis (see Figure A) and re-install the clevis bolt connecting it to the lift arm.

NOTE: Hole in the end of the stabilizer bar is over-size for lift arm movement.

After connecting both lift arms and the top link to the implement, raise the implement just off the ground and center the implement in relation to the tractor. Lower the implement back on the ground and tighten the two (2) $\frac{7}{16}$ " carriage bolts on the stabilizer bar.

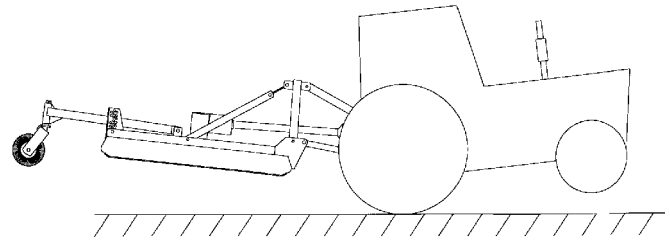


Figure 1. Tractor Stability

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.

- 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.



WARNING!

When using a 3 pt. hitch, 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!**



WARNING!

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.

INSTRUCTIONS (continued)

OPERATION

Make sure all operators have read all the safety warnings and precautions in this manual and those in the tractor operator's manual.

Be sure tractor is properly counterbalanced with weights before attempting to lift any load.



Read manual before operating.

Position the implement behind the tractor, slide the lift arm ball ends on the implement pull pins and lock in place with $\frac{7}{16}$ " linch pins.

Attach the topline to the implement topline bracket using a $\frac{3}{4}$ " topline pin and linch pin (not provided).

Use the screw adjustment to level the R.H. lift arm with L.H. arm or to provide the proper "pitch" for mounted plows. The adjustable screw type leveling assemblies will provide adjustment in the lifting height of the hitch.

NOTE: BE SURE THAT AT LEAST 1 $\frac{1}{4}$ " OF THREAD ON EACH END IS ENGAGED INTO THE THREADED BARREL OF THE LEVELING ASSEMBLIES.

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.

This kit is designed to lift up to 350 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.

NOTE: Use of Stabilizer Bars

Some implements such as post hole diggers, rear blades, landscape rakes, and rear 3 pt. scoops, you will need to install the stabilizer bars to eliminate side movement of the hitch to control the implement.

With other implements, such as 3 pt. plows, disc harrows, field cultivators, and harrows, it is best to remove the stabilizer bars and allow the hitch side movement. This makes it easier to steer the tractor and minimize side pressure on the hitch and the implement when turning.

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.

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

Periodically oil the following:

- Top link (upper 3rd link) threads
- Ball sockets
- Leveling assembly threads

REPLACE SAFETY SIGNS IF DAMAGED OR MISSING!

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.



▲ **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.**

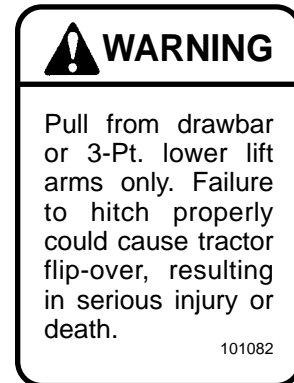
▲ **Do not get under machine to make measurements or adjustments without securely blocking implement first.**



ALWAYS OBEY ALL SAFETY RULES! ALWAYS BE CAREFUL!

SAFETY SIGNS

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



**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.

This diagram shows an exploded view of a lift arm assembly. The main components are labeled with numbers: 1 (pin), 2 (bracket), 3 (bracket), 4 (arm), 5 (arm), 6 (pin), 7 (pin), 8 (pin), 9 (pin), 10 (pin), 11 (pin), 12 (pin), 13 (pin), 14 (pin), 15 (pin), 16 (pin), 17 (pin), 18 (pin), 19 (pin), 20 (pin), 21 (pin), 22 (pin), 23 (pin), 24 (pin), 25 (pin), 26 (pin), 27 (pin), 28 (pin), 29 (pin), 30 (pin), 31 (pin), 32 (pin), 33 (pin), 34 (pin), 35 (pin), 36 (pin), 37 (pin), 38 (pin), 39 (pin), 40 (pin), 41 (pin), 42 (pin), 43 (pin), 44 (pin), 45 (pin), 46 (pin), 47 (pin), 48 (pin), 49 (pin), 50 (pin), 51 (pin), 52 (pin), 53 (pin), 54 (pin), 55 (pin), 56 (pin), 57 (pin), 58 (pin), 59 (pin), 60 (pin), 61 (pin), 62 (pin), 63 (pin), 64 (pin), 65 (pin), 66 (pin), 67 (pin), 68 (pin), 69 (pin), 70 (pin), 71 (pin), 72 (pin), 73 (pin), 74 (pin), 75 (pin), 76 (pin), 77 (pin), 78 (pin), 79 (pin), 80 (pin), 81 (pin), 82 (pin), 83 (pin), 84 (pin), 85 (pin), 86 (pin), 87 (pin), 88 (pin), 89 (pin), 90 (pin), 91 (pin), 92 (pin), 93 (pin), 94 (pin), 95 (pin), 96 (pin), 97 (pin), 98 (pin), 99 (pin). The diagram also includes a detailed view of a pin (Figure A) and a note: "NOTE: Use rear hole in lift arm only."

Repair Parts For HK-90 AND HK-91 3 PT. HITCH ADAPTER KITS

Ref. No.	Part No.	Description	No. Req'd.
1	862370	Main Frame	1
2	862316	Left-Hand Lift Bracket (HK-90 only)	1
3	862312	Right-Hand Lift Bracket (HK-90 only)	1
4	862371	Lift Control Arm	1
5	862320	Lift Arm	2
6	862323	Lift Arm Leveling Assembly	2
6A	862322	Upper Clevis	2
6B	590114	Lower Clevis	2
6C	862373	Knock-In Handle	2
6D	590276	Barrel	2
6E	2500018	Jam Nut $\frac{7}{16}$ " - 14 UNF	2
7	862827	Stabilizer Bar	2
8	590299	Cat. I Top Link Assembly (AK-513F)	1
8A	590005	Left-Hand Threaded Stub	1
8B	590238	Barrel	1
8C	590004	Right-Hand Threaded Stub	1
8D	590128	Barrel Lock	1
8E	590145	Knock-In Handle	1
9	590001	Cat. I Top Link Pin (AK-8)	1
10	590006	$\frac{7}{16}$ " Spring Ring Linchpin	5
11	860107	Upper Lift Pin (Cat. I - $\frac{7}{16}$ " Dia.)	2
12	2503048	Bolt, Hex $\frac{5}{8}$ " - 11 UNC x 2"	2 (HK-90) 1 (HK-91)
13	2502007	Washer, Springlock $\frac{5}{8}$ "	9 (HK-90) 10 (HK-91)
14	2503010	Bolt, Carriage $\frac{7}{16}$ " - 14 UNC x 1"	2
15	2502006	Washer, $\frac{7}{16}$ " - Springlock	2
16	2500012	Nut, Hex $\frac{7}{16}$ " - 14 UNC	2
17	2503076	Bolt, Hex $\frac{5}{8}$ " - 11 UNC x 1 $\frac{1}{4}$ "	6
18	2503067	Bolt, Hex $\frac{5}{8}$ " - 11 UNC x 2 $\frac{3}{4}$ "	2
19	2500041	Nut, Nyloc $\frac{5}{8}$ " - 11 UNC	3
20	2503047	Bolt, Hex $\frac{5}{8}$ " - 11 UNC x 1 $\frac{1}{2}$ "	2 (HK-90) 4 (HK-91)
21	2500013	Nut, Hex $\frac{5}{8}$ " - 11 UNC	2
22	2501005	Washer, Flat $\frac{5}{8}$ "	4 (HK-90) 3 (HK-91)
23	2501002	Washer, Flat $\frac{3}{4}$ "	1
24	2504007	Cotter Pin $\frac{3}{16}$ " x 1 $\frac{3}{4}$ "	1
25	862367	Right Side Frame Member (HK-90 only)	1
26	2503004	Bolt, Hex $\frac{1}{2}$ " - 13 UNC x 1 $\frac{1}{2}$ "	3
27	2502002	Washer, $\frac{1}{2}$ " Springlock	3
28	2501003	Washer, $\frac{1}{2}$ " Flat	3
NS	101039	Decal - Caution (Stay Clear of Raising Arms)	2
NS	101082	Decal - Warning (Pull From Drawbar)	1
97	862363	Lift Bracket, Right-Hand (HK-91 only)	1
98	862364	Lift Bracket, Left-Hand (HK-91 only)	1
99	862361	Support Mount (HK-91 only)	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 counterweights 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/ OPERATOR'S MANUAL

MODEL NO.'s HK-90 HK-91

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION:

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

APRIL 2001

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-90 – Standard Cub Tractor

HK-91 – Cub Lo-Boy (Not for 154, 184, 185 Models)

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 .

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