

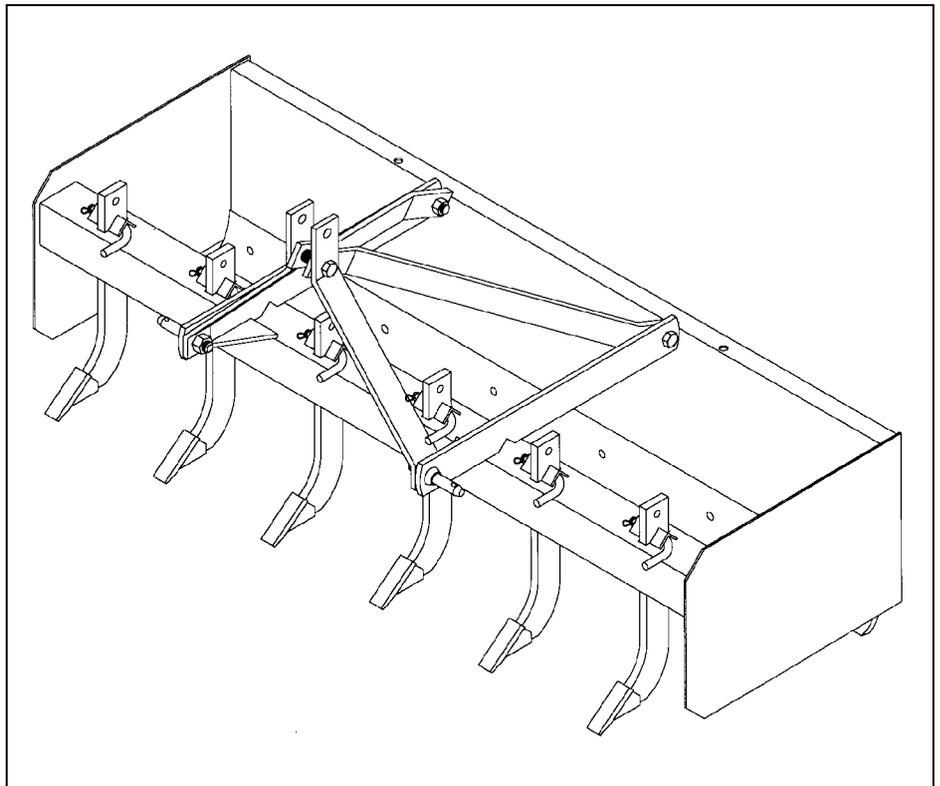
# OWNER'S MANUAL

## MODEL NO.'s

**BX Series**  
**48, 60, 72**  
**84 & 96**

### **CAUTION**

For Safe Operation  
Read Rules And  
Instructions Carefully



## 3 PT. BOX SCRAPER

### 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.**

# 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 BOX SCRAPER.

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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 box scraper 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.



Most accidents occur because of neglect or carelessness. Keep all helpers and bystanders twenty-five feet (25') from an operating box scraper. Only properly trained people should operate this machine. 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 box scraper, 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 machine 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, or moving the box scraper, 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 box scraper.



Always use two people to handle heavy, unwieldy components during assembly, installation, removal, or moving the box scraper.



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 box scraper.



Never place yourself between the tractor and box scraper 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 box scraper, 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 box scraper.



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 the box scraper 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 the box scraper.
-  When maneuvering close to buildings or passing through narrow areas, be sure to allow sufficient clearance for the box scraper.
-  Do not operate close to ditches or creeks. Slow down when operating over rough ground.
-  Always be sure the box scraper is in the fully raised position when in transport.
-  When removing, changing the shanks, be sure that your feet are never under the box scraper.
-  Use extreme caution when backfilling deep holes or trenches.
-  Be careful to avoid catching the box scraper on stumps or other immovable objects.
-  Use care when working on slopes.
-  Avoid excessive speed during operation.
-  Make adjustments only when the box scraper is attached to the tractor.
-  When using the box scraper in a reverse position, use extra care. **Do not ram box scraper** into piles of dirt. Tractor lift arms and the box scraper 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.

## SAFETY SIGNS

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

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

## CAUTION

Failure to follow safe operating practices can cause property damage and bodily injury.



1. Use tractor hitch sway bars to prevent side sway.
2. Never ram box scraper into dirt piles in reverse position. Ramming backwards can unseat operator from tractors or controls.
3. Use extreme caution when backfilling deep holes or trenches.
4. Keep feet clear when adjusting shanks.
5. Watch for and avoid obstructions. Never hit mounds or ridges at high speed as obstructions may be hidden.
6. Read other safety precautions in owner's manual.

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# INSTRUCTIONS

## TRACTOR REQUIREMENTS AND PREPARATION

The BX Series Box Scrapers will fit most Category I Tractors equipped with a standard 3-point hitch. The BX-48 box scraper will fit Cat. 0 3-point hitch tractors when equipped with Cat. 0/I pull pins.

The pins need to be installed to the inside of the 3-point frame.

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.)

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

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.



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.

## ASSEMBLY AND MOUNTING

1. Attach the upper 3-point a-frame members, to the lower 3-point hitch lugs as shown on page 5, with hardware as indicated. **DO NOT** tighten hardware. Align the a-frame top link and lower hitch holes in order to allow your hitch pins to pass through them. A-frame should be positioned square to the box scraper frame when tightening hardware.
2. Before inserting shanks, attach box scraper to tractor 3-point hitch using top 3-point hitch pin and linch pins furnished by customer, or raise up front of box scraper and support with blocks.

## SHANK SETTING & ADJUSTMENTS

Remove shanks from shipping position and insert into shank tube from the bottom side with tips pointing towards the tractor. Position shank to the desired depth and secure with shank lock pin (#19) and hair pin cotter (#20).

Shank settings from bottom of end plate to tip of shanks are as follows:



- Top Hole - 4 1/2" Below
- Second Hole - 2 1/2" Below
- Third Hole - 1/2" Below
- Fourth Hole - 1 1/2" Above

## PITCH ADJUSTMENT

Leveling the box scraper or increasing the pitch of the cutting blade is accomplished by adjusting the top link of the tractor.



When using the box scraper in a reverse position use extra care - **DO NOT RAM BOX SCRAPER** into dirt piles! Tractor lift arms and the box scraper 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.

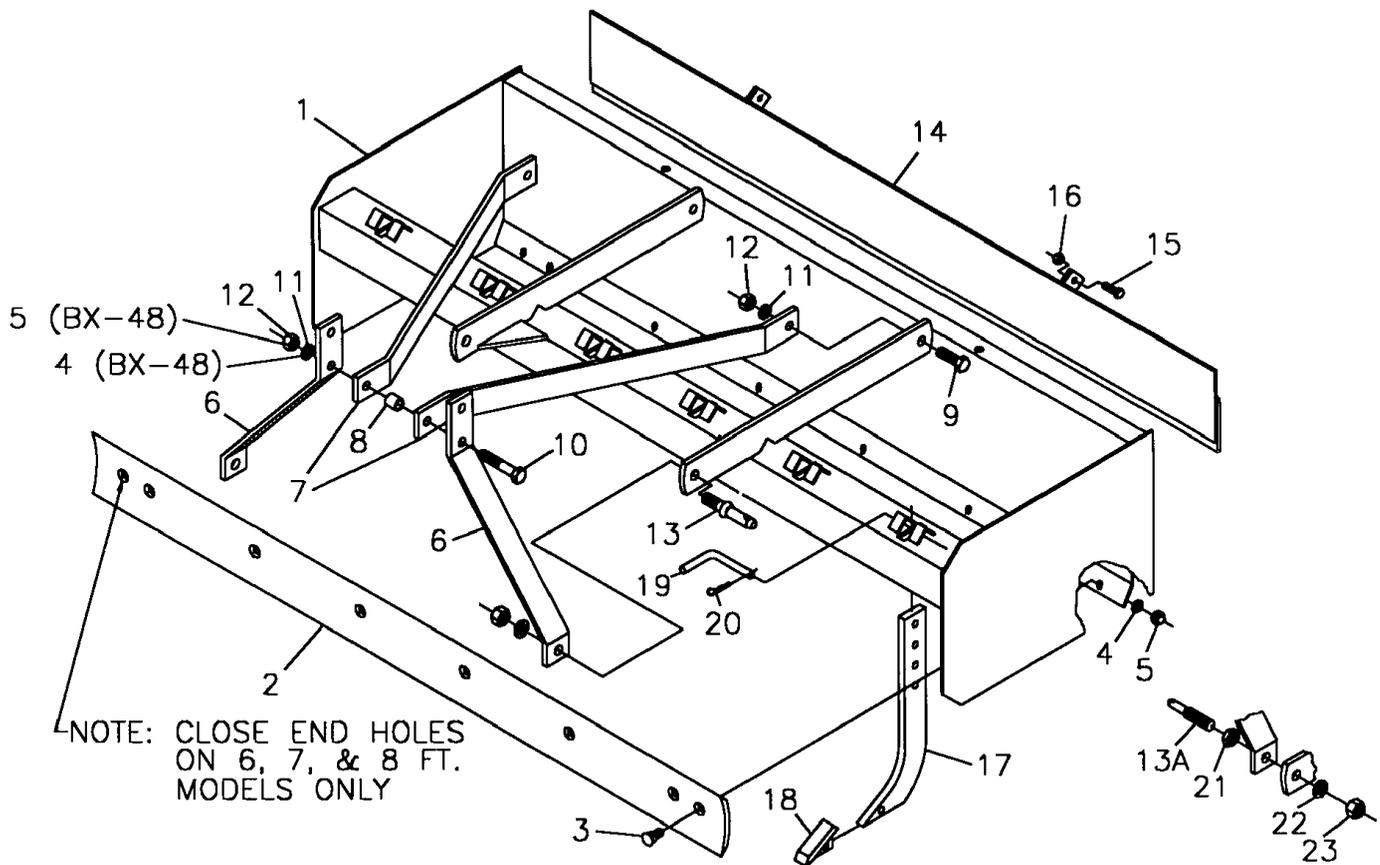
## STORAGE

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

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

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

Store box scraper in a clean, dry place.



## BOX SCRAPER REPAIR PARTS

REF. NO.	PART NO.	DESCRIPTION	NO. REQ.
1	341642	Main Frame Weldment (BX - 48)	1
	341652	Main Frame Weldment (BX - 60)	1
	341661	Main Frame Weldment (BX - 72)	1
	341681	Main Frame Weldment (BX - 84)	1
	341691	Main Frame Weldment (BX - 96)	1
2	341641	Cutting Edge (BX - 48)	1
	341651	Cutting Edge (BX - 60)	1
	350405	Cutting Edge (BX - 72)	1
	350029	Cutting Edge (BX - 84)	1
	350105	Cutting Edge (BX - 96)	1
3	2503045	Bolt $\frac{5}{8}$ " - 11 NC x $1\frac{1}{2}$ " Plow	Var.
4	2502007	Washer $\frac{5}{8}$ " Springlock	Var.
5	2500013	Nut $\frac{5}{8}$ " - 11 NC Full Hex	Var.
	341624	Strap, Toplink (BX - 48 Only)	2
6	341673	Strap, Toplink	2
	341623	Strap, Tie (BX - 48 Only)	2
7	341674	Strap, Tie	2
	590124	Spacer $1\frac{3}{8}$ " Lg. (BX - 48 Only) AK-805	1
8	341672	Spacer $1\frac{1}{8}$ " Lg.	1
	2503002	Bolt $\frac{3}{4}$ " - 10 NC x 2" Hex Head	2

REF. NO.	PART NO.	DESCRIPTION	NO. REQ.
10	2503066	Bolt $\frac{5}{8}$ " - 11 NC x 4" Hex Head (BX - 48 Only)	1
	2503023	Bolt $\frac{3}{4}$ " - 10 NC x 4" Hex Head	1
11	2502001	Washer $\frac{3}{4}$ " Springlock	Var.
12	2500002	Nut $\frac{3}{4}$ " - 10 NC Full Hex	Var.
13	590108	Draw Pin Cat. I (AK-578) Opt. on BX - 48	2
13A	590096	Draw Pin Cat. 0 (BX - 48 Only)	2
14	341671	Back Blade Weldment (BX - 48)	1
	341670	Back Blade Weldment (BX - 60)	1
	341669	Back Blade Weldment (BX - 72)	1
	341688	Back Blade Weldment (BX - 84)	1
	341698	Back Blade Weldment (BX - 96)	1
15	2503004	Bolt $\frac{1}{2}$ " - 13 NC x $1\frac{1}{2}$ " Hex Head	2
16	2500054	Nut $\frac{1}{2}$ " - 13 NC Hex Stamplock	2
17	341675	Shank, Scarifier w/ Tip (Ref. #18)	Var.
18	341677	Replaceable Wear Tip	Var.
19	341654	Pin, Lock	Var.
20	590187	Hair Clip Pin (AK-2704)	Var.
21	2500018	Nut $\frac{7}{8}$ " - 14 NF Jam Hex (BX - 48 Only)	2
22	2502005	Washer $\frac{7}{8}$ " Springlock (BX - 48 Only)	2
23	2500017	Nut $\frac{7}{8}$ " - 14 NF Full Hex (BX - 48 Only)	2

# Specifications

## BX SERIES FIXED BAR BOX SCRAPERS

MODEL/SERIES	BX - 48	BX - 60	BX - 72	BX - 84	BX - 96
WORKING WIDTH	48"	60"	72"	84"	96"
HEIGHT OF MOLDBOARD	17"	17"	17"	17"	17"
DEPTH OF BUCKET	22"	22"	22"	22"	22"
OVERALL DEPTH	31"	31"	31"	31"	31"
OVERALL HEIGHT	32"	35"	35"	35"	35"
WEIGHT (POUNDS)	312	370	438	506	574
NUMBER OF SHANKS	4	5	6	7	8
MAXIMUM H.P. RATING	25	35	40	40	40
A-FRAME MATERIAL	$\frac{3}{8}$ " x 2 $\frac{1}{2}$ " Flat Bar	$\frac{1}{2}$ " x 2 $\frac{1}{2}$ " Flat Bar			
LOWER HITCH	Bolted Pin				



## 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.



W O R K S A V E R

## OWNER'S MANUAL

### MODEL NO.'s

**BX - 48**

**BX - 60**

**BX - 72**

**BX - 84**

**BX - 96**

JUNE 1996

## 3 PT. BOX SCRAPERS

For Cat. 0 and I 3 Pt. Hitch Tractors  
up to 40 H.P.

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

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

### 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