

OWNER'S/ OPERATOR'S MANUAL

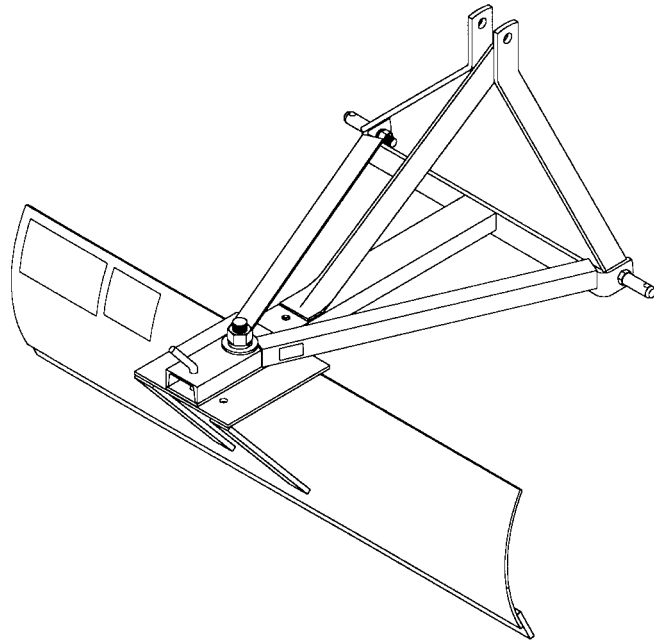
MODEL NO.'s
DC-4
DC-5



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.**



3 Pt. Rear Mounted Blade

**For Cat. 0 and Cat. I Tractors
up to 25 H.P.**

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 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 ATTACHED EQUIPMENT.

UNDERSTAND SIGNAL WORDS

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

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

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

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

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

IMPORTANT SAFETY INFORMATION!

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

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



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

SAFETY INSTRUCTIONS (continued)



All equipment is potentially hazardous. There is no substitute for a cautious, safe-minded operator who recognizes potential hazards and follows reasonable safety practices.



When the use of hand tools is required to perform any part of assembly, installation, adjustment, maintaining, repairing, removal, or moving the implement, be sure the tools used are designed and recommended by the tool manufacturer for that specific task.



Personal protection equipment including safety glasses, safety shoes, and gloves are recommended during assembly, installation, operation, adjustment, maintaining, repairing, removal, or moving the rear blade.



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



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



Never place yourself between the tractor and implement while 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 rear blade, 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 rear blade.
















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 rear blade from swinging side to side. Adjust as tightly as practical for best performance.

SAFETY INSTRUCTIONS (continued)

-  Keep alert and watch the front as well as the rear when working with the implement.
-  When maneuvering close to buildings or passing through narrow areas, be sure to allow sufficient clearance for the implement.
-  Do not operate close to ditches or creeks. Slow down when operating over rough ground.
-  Always be sure the implement is in the fully raised position when in transport.
-  When adjusting the angle of the moldboard assembly, be sure that your feet are never under the rear blade.
-  Use extreme caution when backfilling deep holes or trenches.
-  Be careful to avoid catching the rear blade on stumps or other immovable objects.
-  Use care when working on slopes.
-  Avoid excessive speed during operation.
-  Make adjustments only when the implement is attached to the tractor.
-  When using the rear blade in a reverse position, use extra care. **Do not ram rear blade** into piles of dirt. Tractor lift arms and the rear blade are not built to take high impact loads in this position. **Ramming** backwards can also dislodge operator from seat and/or tractor controls, resulting in possible serious injury or death.
-  Always ease the tractor into the load. It may be necessary to reposition and take less “bite” on the material to move it safely.
-  Watch for and avoid hidden obstructions, i.e., buried pipes, rocks, concrete piers, uneven concrete slabs, stumps, etc., when operating.

SAFETY SIGNS

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

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



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 blade into dirt or snow piles with blade in reverse position. Ramming backwards can unseat operator from tractor or controls.
3. Keep fingers away from adjusting holes.
4. Reposition blade with tractor on level ground only to prevent blade from swinging or sliding into operator.
5. Watch for and avoid obstructions. Never hit mounds or ridges (especially ice and snow) at high speed as obstructions may be hidden.
6. Read other safety precautions in owner's manual.

Part #101033

INSTRUCTIONS

TRACTOR REQUIREMENTS AND PREPARATION

The Model DC Rear Blades will fit most Category I tractors equipped with a standard 3-point hitch. The rear blade will fit Category 0 3-point hitch tractors when equipped with Category 0/I pull pins.

The pins need to be installed to the inside of the 3-point frame for use with Category 0 tractors.

The Model DC Rear Blades are economy blades for use on Category I tractors up to 25 horsepower in size. For use on larger tractors, extra care is required and it is strongly suggested that purchasing a heavier rear blade be considered.

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.

The main frame of the blade is now installed on the tractor. Proceed with assembling the moldboard and cutting edge assembly to the main frame as follows:

1. Remove the 1" x 4" hex head pivot bolt and the shift pin.
2. Place the moldboard assembly in the position shown in the parts diagram.
3. Place the 1" x 4" hex head pivot bolt up through the moldboard plate and through the main frame. Then secure it with the washer, lockwasher, and nut provided. **NOTE:** Do not tighten the 1" bolt at this point, so that the angle position desired may be obtained.
4. Once the moldboard assembly is mounted to the 3 pt. hitch frame, turn the moldboard assembly to your desired operating angle and insert the angle adjustment shift pin. **NOTE:** When pulling the blade, the shift pin should be in the hole nearest to the tractor. When pushing the blade, it should be in the hole farthest from the tractor.
5. Tighten the pivot bolt nut.

NOTE: If the moldboard to hitch frame connection becomes loose after blade use, this looseness can be removed by tightening the one inch nut.

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

Your Rear Mounted Blade is now assembled and mounted on your tractor. It is ready to go to work for you.



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

ASSEMBLY AND MOUNTING

Attach rear blade hitch frame to tractor 3-point hitch using a $\frac{3}{4}$ inch (Cat. I) top link pin and linch pins furnished by customer.

GENERAL SAFETY

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

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

INSTRUCTIONS (continued)

OPERATION

Check for ditches, stumps, holes, or other obstacles that could upset tractor or damage blade. Always turn off tractor engine, set parking brake, lower blade to ground before dismounting tractor.

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

Your rear blade can be used for all types of blade work, including casting, side ditching, leveling, terracing, grading, bulldozing, and snow removal.

1. **CASTING:** The blade should be angled horizontally – only enough to allow the material to slide along it easily. The vertical angle (tilt) of the blade must be set to suit conditions. This is controlled by the lift arm leveling assembly (turnbuckle) on the tractor 3-point hitch.

2. **SIDE DITCHING:** The horizontal angle should be at its sharpest. This is obtained by removing the shift pin and turning the moldboard so that the last hole in the circle plate is in line with the shift pin hole, then replace the shift pin. It is suggested that the blade be set in an offset position and then use the shorter blade side to be the cutting side. This reduces the load movement on the end of the blade.

The vertical angle of the blade (tilt) is adjusted by means of the adjustable turnbuckles on the tractor 3-point hitch. For the sharpest angle, lengthen the center link on the tractor as far as possible. Also, lower the adjustable leveling turnbuckle as far as possible.

3. **LEVELING:** The blade should be straight across, i.e., 90° to the line of travel of the tractor, in other words 0° horizontal angle.

There should be 0° vertical angle, i.e., the lift arms on the tractor 3-point hitch should be parallel to the ground.

The cutting pitch of the blade should be the opposite of that used in side ditching and casting, with the cutting edge behind the top edge of the moldboard. This adjustment is made with tractor center link.

4. **TERRACING:** Use a combination of ditching, casting, and leveling. The first cut is into the hillside in the ditching position. Continue until the terrace is at proper depth, then switch to the casting position until the terrace width is established. It may be necessary to use the leveling position to complete the job.

5. **BULLDOZING:** When bulldozing, the blade is in reverse position. Depending on the job, the casting, side ditching, or leveling position may be used. Snow removal can also be done with the blade in this position (blade in reverse, cutting edge away from tractor).

(**NOTE:** Most blades are damaged in this position – use extra care – DO NOT RAM blade into snow or dirt piles!)



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

6. **GRADING:** Grading is a combination of casting, side ditching, and leveling. Snow removal can also be done with the blade in this position (cutting edge toward the tractor).

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

NOTE: Do not load either end of the blade heavily. Try to balance the load on both ends of the blade.

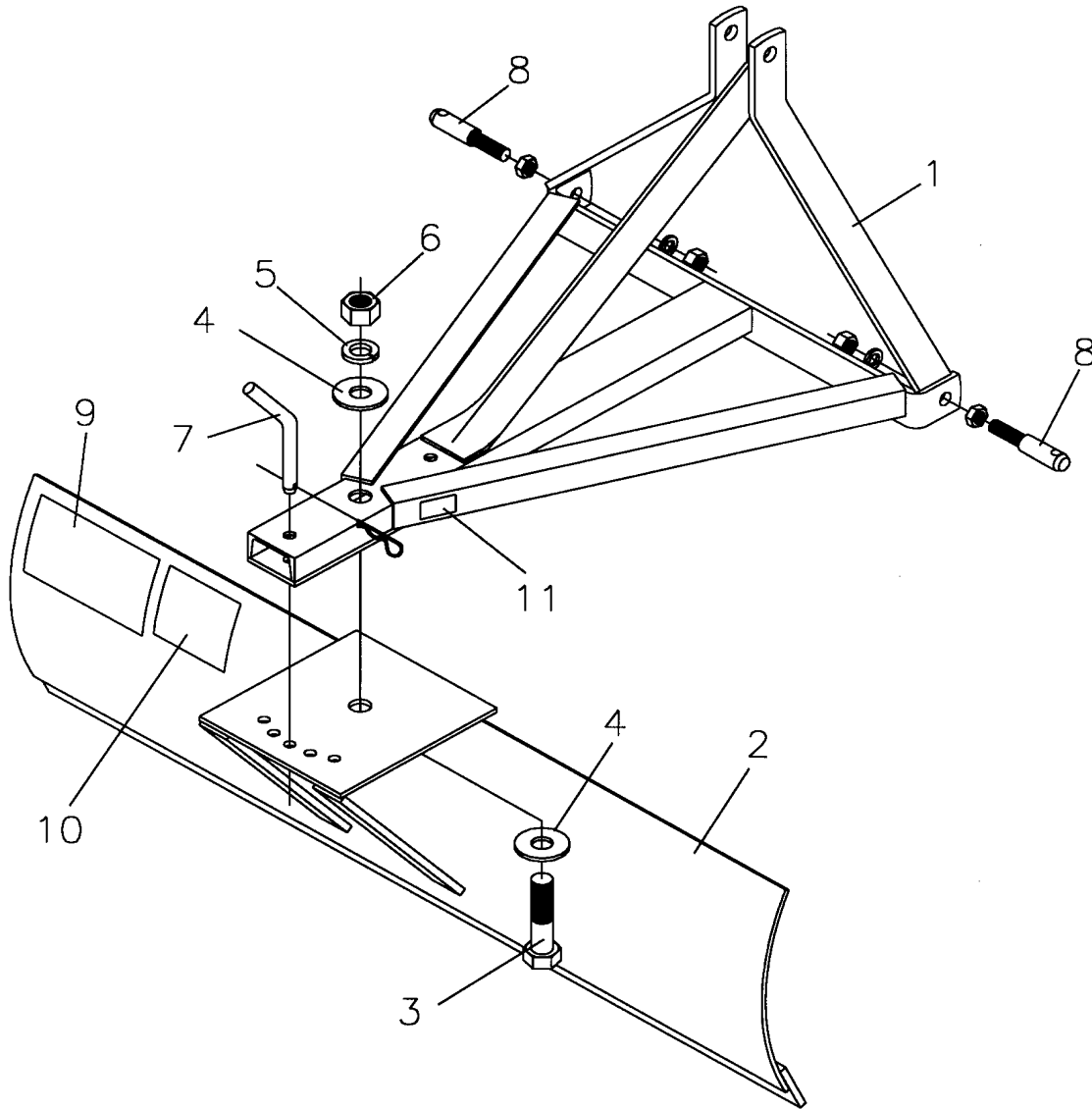


Watch for and avoid hidden obstructions, i.e., buried pipes, rocks, concrete piers, or uneven slabs of concrete, when operating, or blade damage may occur. This is especially true when removing snow.

MAINTENANCE

- Periodically check all bolts and tighten where necessary.
- Check the shift pin for excessive wear and replace if necessary.
- Repaint parts where paint is worn or scratched to prevent rust.
- Always store blade in a clean, dry location away from children and livestock.

DC BLADE PARTS LIST



Ref. No.	Part No.	Description	No. Req'd.
1	345101	3 Pt. Mount Frame	1
2	345601	4' Moldboard Weldment (DC-4)	1
	345506	5' Moldboard Weldment (DC-5)	1
3	2503226	Bolt 1"-8NC x 4" Hex Head Gr. 2	1
4	2501001	Washer 1" Flat	2
5	2502009	Washer 1" Springlock	1
6	2500001	Nut 1"-8NC Full Hex	1
7	341857	Shift Pin w/Hairclip Pin	1
8	590167	Draw Pin, Cat. I (AK-482)	2
	590122	Draw Pin, Cat. 0 (AK-481) - Optional	2
9	101033	Safety Sign - Caution (Blades)	1
10	101047	Safety Sign - Notice (HP Rating) DC-4	1
	101048	Safety Sign - Notice (HP Rating) DC-5	1
11	101059	Decal - DC 3 Pt. Mount	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 DC-4 DC-5

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION:

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

JANUARY 2001

MAKE EVERY DAY A HOLIDAY FROM ACCIDENTS

3 PT. REAR MOUNTED BLADE

For Cat. 0 and Cat. 1 3 Pt. Hitch Tractors

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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