



Hydraulic Blade
Sitework Systems Attachment
Model No. 22414—890001 & Up

Operator's Manual



Contents

	Page
Introduction	2
Safety	2
Safety Decals	3
Specifications	3
Stability Ratings	3
Operation	3
Tips for Using the Blade	4
Blade Operation and Controls	4
Maintenance	4
Service Interval Chart	4
Checking the Blade Cutting Edge	4
Storage	4
Troubleshooting	5

Introduction

We want you to be completely satisfied with your new product, so feel free to contact your local Authorized Service Dealer for help with service, genuine replacement parts, or other information you may require.

Whenever you contact your Authorized Service Dealer or the factory, always know the model and serial numbers of your product. These numbers will help the Service Dealer or Service Representative provide exact information about your specific product. You will find the model and serial number on a plate located on the blade pivot frame.

For your convenience, write the product model and serial numbers in the space below.

<p>Model No: _____</p> <p>Serial No. _____</p>
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The warning system in this manual identifies potential hazards and has special safety messages that help you and others avoid personal injury, even death. DANGER, WARNING and CAUTION are signal words used to identify the level of hazard. However, regardless of the hazard, be extremely careful.

DANGER signals an extreme hazard that will cause serious injury or death if the recommended precautions are not followed.

WARNING signals a hazard that may cause serious injury or death if the recommended precautions are not followed.


CAUTION signals a hazard that may cause minor or moderate injury if the recommended precautions are not followed.

Two other words are also used to highlight information. “Important” calls attention to special mechanical information and “Note” emphasizes general information worthy of special attention.

The left and right side of the machine is determined by standing in the normal operator’s position.

Safety

Improper use or maintenance by the operator or owner can result in injury. To reduce the potential for injury, comply with the safety instructions in the traction unit Operator’s Manual and always pay attention to the safety alert ⚠ symbol, which means CAUTION, WARNING, or DANGER—“personal safety instruction.” Failure to comply with the instruction may result in personal injury or death.

 DANGER
<p>POTENTIAL HAZARD</p> <ul style="list-style-type: none">• There may be buried power, gas, and/or telephone lines in the work area.
<p>WHAT CAN HAPPEN</p> <ul style="list-style-type: none">• Shock or explosion may occur.
<p>HOW TO AVOID THE HAZARD</p> <ul style="list-style-type: none">• Have the property or work area marked for buried lines and do not dig in marked areas.

! WARNING

POTENTIAL HAZARD

- When the engine is off, attachments in the raised position can gradually lower.

WHAT CAN HAPPEN

- Someone nearby may be pinned or injured by the attachment as it lowers.

HOW TO AVOID THE HAZARD

- Always lower the attachment lift each time you shut off the traction unit.

Safety Decals



100-4650

Figure 1

1. Pinching/crushing hazard—hand
2. Pinching/crushing hazard—foot
3. Keep bystanders away

Specifications

Note: Specifications and design are subject to change without notice.

Width	47.75 inches (121.3 cm)
Length	25 inches (63.5 cm)
Height	21 inches (53 cm)
Weight	212 lbs (96.2 Kg)

Stability Ratings

To determine the degree of slope you can traverse with the blade installed on a traction unit, find the stability rating for the hill position you want to travel in the following

table, then find the degree of slope for the same rating and hill position in the Stability Data section of the traction unit operator's manual.

Orientation	Stability Rating
Front Uphill 	D
Rear Uphill 	C
Side Uphill 	B

Note: On traction units with a rear operator platform, the blade is rated for use without the counterweight. If you use the counterweight with the blade, the traction unit will be less stable in the front and side uphill positions.



! WARNING



POTENTIAL HAZARD

- Exceeding the maximum recommended slope can cause the traction unit to tip.

WHAT CAN HAPPEN

- If the traction unit tips, you or bystanders could be crushed.

HOW TO AVOID THE HAZARD

- Do not drive the traction unit on a slope steeper than the maximum recommended slope, as determined in the previous table and the traction unit operator's manual.

Operation

Note: Refer to your traction unit operator's manual for complete instructions on installing/removing attachments onto/from the traction unit and connecting/disconnecting hydraulic hoses.

Note: Always use the traction unit to lift and move the attachment.

Tips for Using the Blade

- Clean the area of trash, branches and rocks before beginning work to prevent equipment damage.
- Always begin with the slowest ground speed possible. Increase speed if conditions permit.
- Always use full throttle (maximum engine speed).
- Never transport the blade with the loader arms raised. Keep the arms lowered and the blade tilted up.
- When scraping, leveling, and surface stripping, lower the blade to the ground, ensuring that the cutting edge makes contact. The blade will bite into the soil as you move forward.

Blade Operation and Controls

1. If your traction unit has a speed selector, move it to the fast (rabbit) position.
2. Pull the auxiliary hydraulics valve to the operator grip to angle the blade to the right.
3. Push the auxiliary hydraulics valve away from the operator grip to angle the blade to the left.

Maintenance

Service Interval Chart

Service Operation	Each Use	5 Hours	25 Hours	200 Hours	Storage Service	Notes
Blade cutting edge—check					X	
Hydraulic hoses—inspect				X	X	Replace if damaged
Chipped surfaces—paint					X	

CAUTION

POTENTIAL HAZARD

- If you leave the key in the ignition switch, someone could start the engine.

WHAT CAN HAPPEN

- Accidental starting of the engine could seriously injure you or other bystanders.

HOW TO AVOID THE HAZARD

- Remove the key from the ignition switch before you do any maintenance.

Checking the Blade Cutting Edge

Check the blade cutting edge once a year for wear. If the blade is badly worn, complete the following procedure:

1. Remove the pins securing the blade to the frame and hydraulic cylinder and remove the blade.
2. Turn the blade 180 degrees so the worn edge is on top, then install it back on the mounting frame and hydraulic cylinder.

Storage

1. Before long term storage, wash the attachment with mild detergent and water to remove dirt and grime.
2. Check the condition of the cutting edge. Remove and rotate the blade 180 degrees so the worn edge is on top, if it is badly worn.
3. Check and tighten all bolts, nuts, and screws. Repair or replace any part that is damaged or worn.
4. Ensure that all hydraulic couplers are connected together to prevent contamination of the hydraulic system.
5. Paint all scratched or bare metal surfaces. Paint is available from your Authorized Service Dealer.

6. Store the attachment in a clean, dry garage or storage area. Cover it to protect it and keep it clean.

Troubleshooting

PROBLEM	POSSIBLE CAUSES	CORRECTIVE ACTION
Blade will not change angle.	<ol style="list-style-type: none">1. Hydraulic coupler not completely connected2. Defective hydraulic coupler3. An obstruction in a hydraulic hose4. Auxiliary valve on the traction unit is not opening.5. Defective hydraulic cylinder	<ol style="list-style-type: none">1. Check and tighten all couplers.2. Check couplers and replace any that are defective.3. Find and remove the obstruction.4. Repair the valve.5. Replace or repair defective cylinder.

