



Tree Forks

Sitework Systems Attachment

Model No. 22438—890001 & Up

Operator's Manual



English (CE)

Contents

| | Page |
|------------------------------|------|
| Introduction | 2 |
| Safety | 2 |
| Safety Decals | 3 |
| Specifications | 4 |
| Stability Ratings | 4 |
| Operation | 5 |
| Tree Fork Operation | 5 |
| Operating Tips | 5 |
| Tree Fork Controls | 5 |
| Maintenance | 5 |
| Service Interval Chart | 5 |
| Storage | 6 |
| Troubleshooting | 6 |

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 back of the tree fork frame.

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

Model No: _____

Serial No. _____

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.

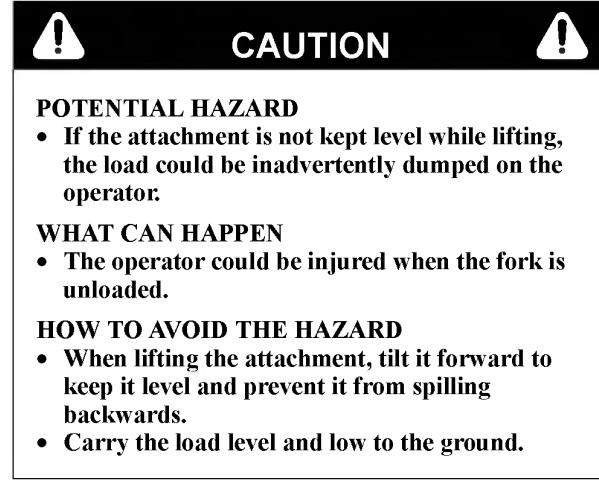
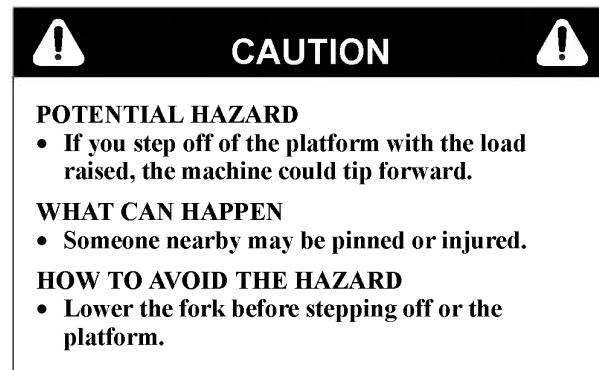
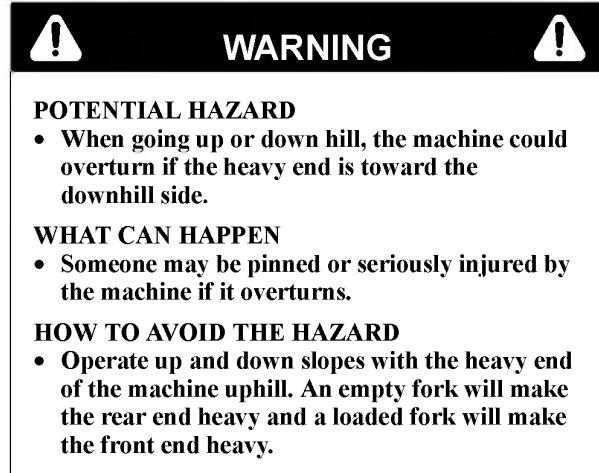
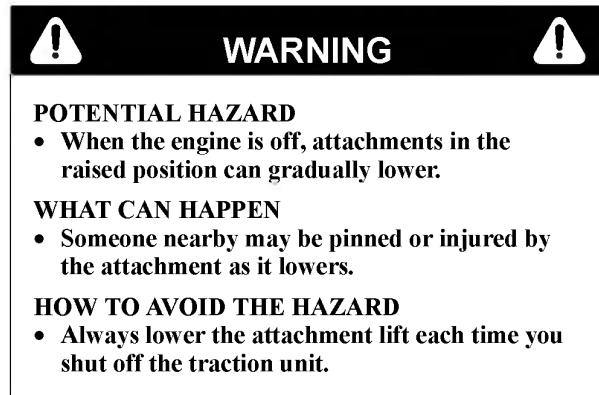
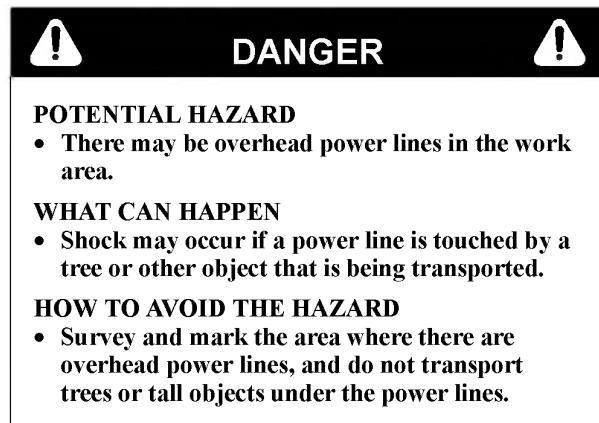
Two other words are also used to highlight information. "Important" calls attention to special mechanical information and "Note" emphasizes general information worthy of special attention.

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

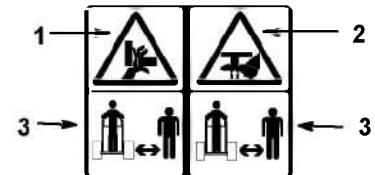
Safety

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.

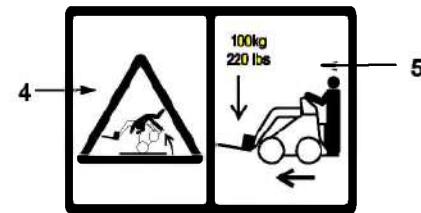
| DANGER | |
|---|--|
| POTENTIAL HAZARD | |
| • There may be buried power, gas, and/or telephone lines in the work area. | |
| WHAT CAN HAPPEN | |
| • Shock or explosion may occur. | |
| HOW TO AVOID THE HAZARD | |
| • Have the property or work area marked for buried lines and don't dig in marked areas. | |



Safety Decals



100-4650



100-4650

Figure 1

1. Pinching/crushing hazard—hand
2. Pinching/crushing hazard—foot
3. Keep bystanders away
4. Machine rollover—exceeding rated load capacity can cause instability
5. Maximum load capacity

Specifications

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

| | |
|---------------------|--|
| Overall width | 24.5 inches (62 cm) |
| Overall length | 45 inches (114 cm) |
| Overall height | 12.5 inches (32 cm) |
| Weight | 169 lbs (77 Kg) |
| Fork length | 43 inches (109 cm) |
| Fork specifications | Length Height Width Thickness Cross section Movement range Left fork Right fork |
| | 43 inches (109 cm) 3 inches (7.6 cm) 3 inches (7.6 cm) 0.25 inches (0.6 cm) Triangular 47 degrees Stationary |
| Hydraulic cylinder | |
| Rod diameter | 1.125 inches (3 cm) |
| Stroke | 3 inches (7.6 cm) |
| Bore diameter | 2 inches (5 cm) |
| Cylinder force | 8,425 lbs (4,275 Kg) at 3,000 psi (20,685 kPa) |
| Pivot pin diameter | 1 inches (2.5 cm) |
| Maximum load | 220 lbs (100 Kg) |

Stability Ratings

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

IMPORTANT: If your traction unit has a rear operator's platform, the counterweight must be used on the platform while using the fork, or the traction unit will become unstable.

| WARNING | |
|--|--|
| POTENTIAL HAZARD | |
| <ul style="list-style-type: none"> Exceeding the maximum recommended slope can cause the traction unit to tip. | |
| WHAT CAN HAPPEN | |
| <ul style="list-style-type: none"> If the traction unit tips, you or bystanders could be crushed. | |
| HOW TO AVOID THE HAZARD | |
| <ul style="list-style-type: none"> Do not drive the traction unit on a slope steeper than the maximum recommended slope, as determined in the following tables and the traction unit operator's manual. | |

Stability without a Load

| Orientation | Stability Rating |
|--------------|------------------|
| Front Uphill | D |
| Rear Uphill | B |
| Side Uphill | B |

Stability with a Load

| Orientation | Stability Rating |
|--------------|------------------|
| Front Uphill | C |
| Rear Uphill | C |
| Side Uphill | B |

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.

- Never attempt to lift more than the rated capacity of the traction unit.
- When transporting a load, keep the fork as close to the ground as possible.
- To ease the placement of a tree into a hole, pick up the tree near the top of the ball or container.
- The fork can also be used to lift, transport, and position small boulders and rocks.

Tree Fork Operation

The tree fork is an excellent tool for transporting balled and container grown trees and shrubs. You can also use the fork to move rocks under 220 lbs (100 Kg).

To pick up a tree, angle the forks to a width larger than the tree ball or container. Drive the traction unit forward to position the tree between the forks. Gently angle the forks inward until they contact the tree ball or container. Raise the loader arms to lift the tree.

Operating Tips

- Position the tree as close as possible to the fork frame to maximize lifting capability.

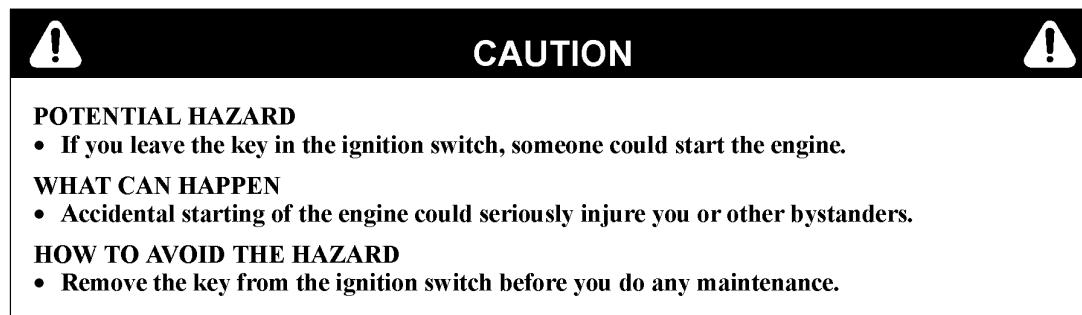
Tree Fork Controls

1. If your traction unit has a speed selector and a flow divider, move the speed selector to the fast (rabbit) position and the flow divider to the 10 to 11 o'clock position.
2. Pull the auxiliary hydraulics valve to the operator grip to open the forks.
3. Push the auxiliary hydraulics valve away from the operator grip to close the forks.

Maintenance

Service Interval Chart

| Service Operation | Each Use | 5 Hours | 25 Hours | 200 Hours | Storage Service | Notes |
|-------------------------|----------|---------|----------|-----------|-----------------|--------------------|
| Hydraulic hoses—inspect | | | | X | X | Replace if damaged |
| Chipped surfaces—paint | | | | | X | |



Storage

1. Before long term storage, wash the attachment with mild detergent and water to remove dirt and grime.
2. Check and tighten all bolts, nuts, and screws. Repair or replace any part that is damaged or worn.
3. Ensure that all hydraulic couplers are connected together to prevent contamination of the hydraulic system.
4. Paint all scratched or bare metal surfaces. Paint is available from your Authorized Service Dealer.
5. 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 |
|-------------------------------|---|---|
| Fork does not open and close. | <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(s) | <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 any defective cylinders. |

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