



**Backhoe**  
**Sitework Systems Attachment**  
Model No. 22412—990001 & Up

*PROTOTYPE*

**Operator's Manual**



English (CE)

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## 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 product.

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.

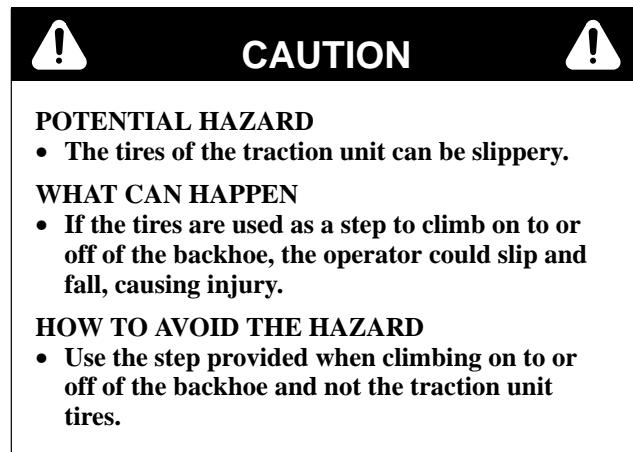
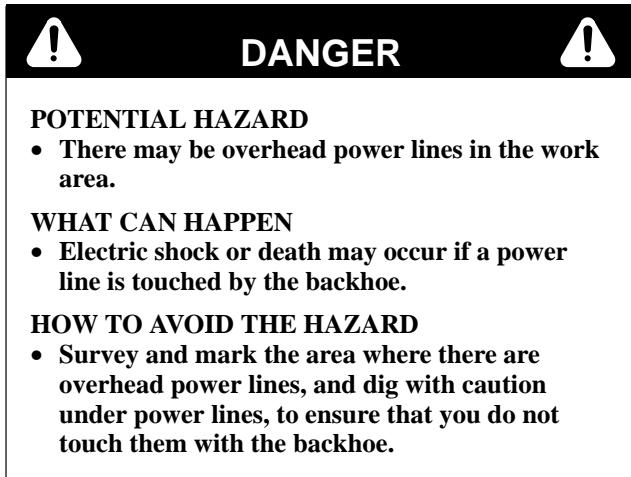
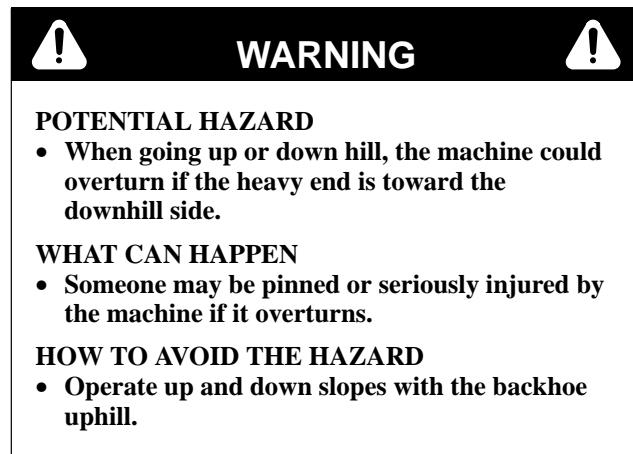
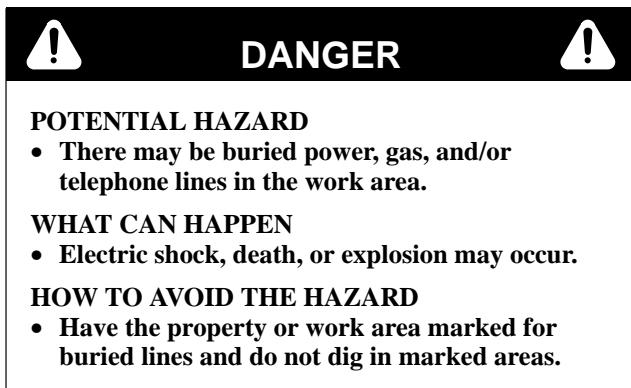
**CAUTION** signals a hazard that may cause minor or moderate injury if the recommended precautions are not followed.

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.

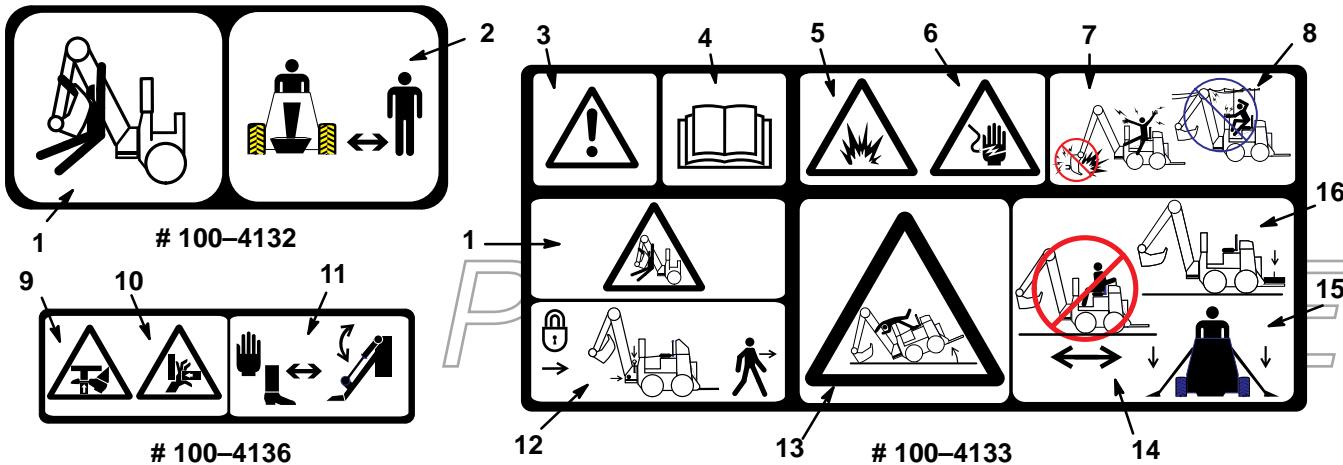
The left and right side of the machine is determined by standing in the normal operator's position.

## 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.**

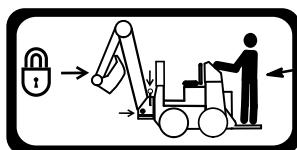


## Safety Decals

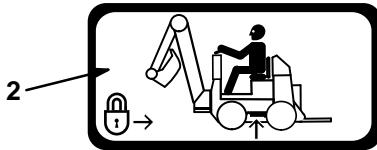


**Figure 1**

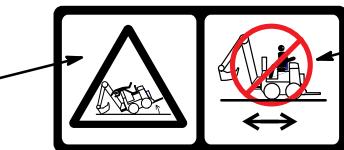
1. Crushing hazard—whole body
2. Keep bystanders away
3. Safety alert symbol
4. Read the operator's manual
5. Explosive hazard
6. Electric shock hazard
7. Do not dig in areas with underground utilities
8. Do not allow the backhoe to contact overhead power lines
9. Crushing hazard—foot
10. Crushing hazard—hand
11. Keep hands and feet away from moving stabilizers
12. Secure the boom before leaving the machine
13. Tipping hazard
14. Do not move the traction unit while seated on the backhoe
15. Lower the stabilizers before beginning work
16. Use the counterweight



# 100-4134



# 100-4135



# 100-4137

Figure 2

1. Secure the boom before transporting the backhoe
2. Install and secure the side bars before operating the backhoe
3. Tipping hazard
4. Do not move the traction unit while seated on the backhoe

# Specifications

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

Width	34.5 inches (87.6 cm)
Length	112.5 inches (286 cm)
Transport height	84 inches (213 cm)
Fully raised height	115 inches (292 cm)
Weight	710 lbs (322 Kg)
Digging depth (maximum)	79 inches (200.6 cm)
Bucket rotation	135 degrees
Swing arc	151 degrees
Stabilizer spread (working)	130 inches (330 cm)

## Stability Ratings

To determine the degree of slope you can traverse with the backhoe 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.

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

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

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

# Installation

## Loose Parts

**Note:** Use the chart below to identify parts for assembly.

DESCRIPTION	QTY.	USE
Side bar bracket	2	
Back-plate	2	
Bolt	6	Install the side bar brackets and attach to the backhoe.
Nut	6	
Side bar	2	
Long tilt cylinder pin	1	
Cotter pin	2	Replace the tilt cylinder pin and connect to the backhoe.
Linch pin	2	
Link	2	
Bucket, 9, 12, or 16 inch (23, 30, or 41 cm)	1	Install on the backhoe. Must be purchased separately.

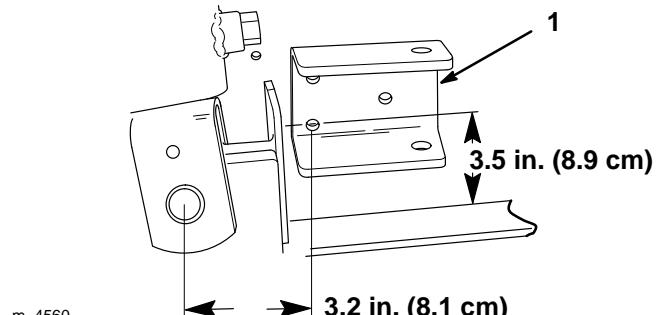
## Initial Assembly

### Installing the Side Bar Bracket

1. Remove the traction unit manual holder and relocate it under the control panel (models 22305 and 22305TE only).
2. Remove the battery from the traction unit. Refer to your traction unit operator's manual.

**Note:** If you have a four-wheel drive, diesel traction unit, you do not need to remove the battery; however, you do need to remove the loader arm cylinder and exhaust cover plate on the right side of the machine. To remove the loader arm cylinder, you need to raise the loader arms and install the cylinder lock on the left side before removing the right cylinder. Replace the cylinder and plate when finished installing the side bar bracket.

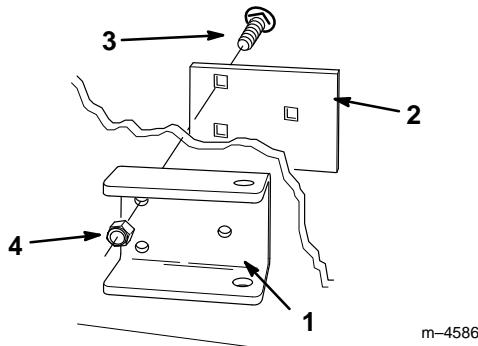
3. Line up the side bar bracket as illustrated in Figure 3 and mark the centers of the three holes.



**Figure 3**

1. Side bar bracket      2. 3.2 in. (8.1 cm)

4. Drill three, 0.568 in. (1.43 cm) diameter holes through the side of the traction unit at the marked locations.
5. Secure the side bar bracket to the side of the traction unit using the back-plate, three carriage bolts, and three nuts.



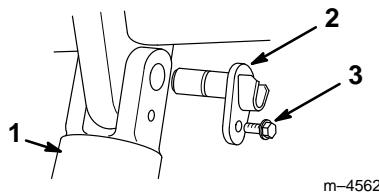
**Figure 4**

1. Side bar bracket	3. Carriage bolt
2. Back-plate	4. Nut

6. Torque the nuts to 75 ft-lbs (102 N·m).
7. Repeat steps 3–6 for the other side of the traction unit.

### Changing the Tilt Cylinder Pin

1. Remove the bolt securing the upper tilt cylinder pin (Fig. 5).
2. Using a hammer and punch, remove the tilt cylinder pin.

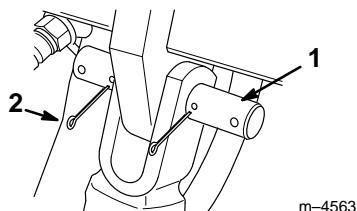


**Figure 5**

1. Tilt cylinder	3. Bolt
2. Tilt cylinder pin	

3. Apply a generous coating of grease to the new pin.
4. Install the new pin into position and secure it with two cotter pins (Fig. 6).

**Note:** Leave the new pin installed, even when the backhoe is removed.



**Figure 6**

1. New tilt cylinder pin	2. Cotter pin
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## Greasing the Backhoe

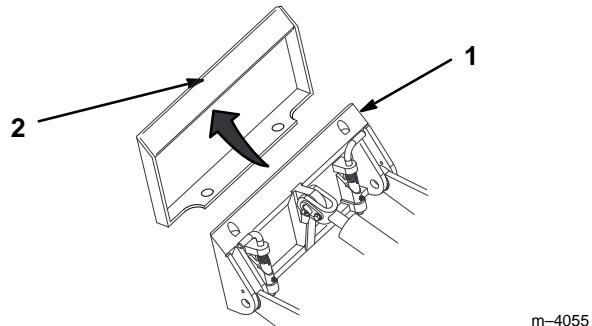
Before using the backhoe for the first time, grease all of the fittings; refer to Greasing and Lubrication, page 13.

### Installing the Backhoe on the Traction Unit

**IMPORTANT:** Before connecting any attachments to the traction unit, ensure that the mount plates are free of any dirt or debris.

1. Start the engine.
2. Tilt the attachment mount plate forward.
3. Drive forward, positioning the mount plate into the upper lip of the receiver plate (Fig. 7).

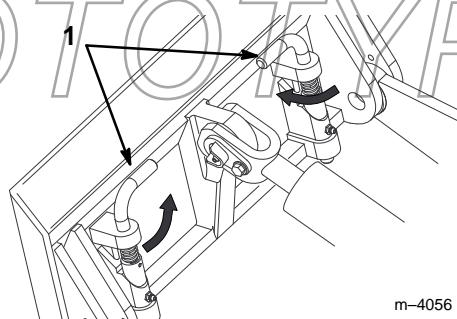
**IMPORTANT:** You must center the mount plate in the receiver plate so that the gaps on the sides are equal. If you do not center the plates, you may not be able to install the side bars.



**Figure 7**

1. Mount plate	2. Receiver plate
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4. Tilt the mount plate back until the receiver plate contacts the mount plate
5. Engage the attachment lock pins (Fig. 8).



**Figure 8**

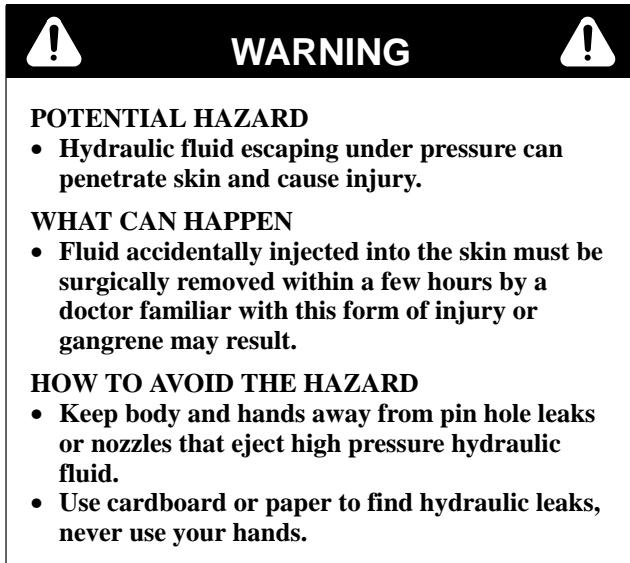
1. Attachment lock pins (shown in engaged position)
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6. Tilt the backhoe part of the way back.

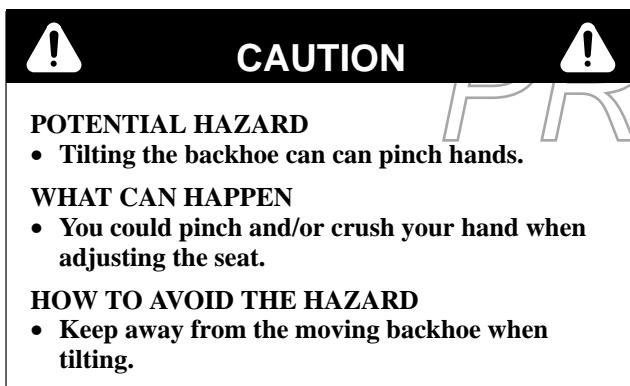
7. Stop the engine.
8. Move the auxiliary hydraulic lever forward, backward, and back to the neutral position to relieve hydraulic pressure at the hydraulic couplers.

**IMPORTANT: Ensure that all foreign matter is cleaned from hydraulic connections before making connections.**

9. Remove protective covers from hydraulic couplers on the traction unit. Connect covers together to prevent contamination during operation.
10. Slide the collars back on the hydraulic couplers and connect the attachment couplers to the machine couplers.

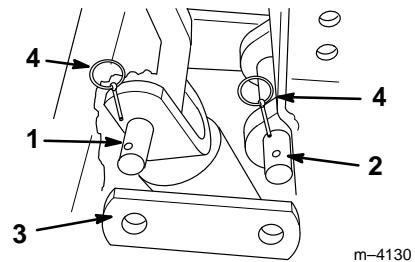


11. Confirm that the connection is secure by pulling on the hoses.
12. Start the engine.
13. Tilt the backhoe all the way back.



14. Slide the two links on each end of the tilt cylinder pin and the backhoe link pin and secure them with two lynch pins (Fig. 9).

**Note:** You may need to move the attachment tilt lever to line up the holes in the links with the pins.



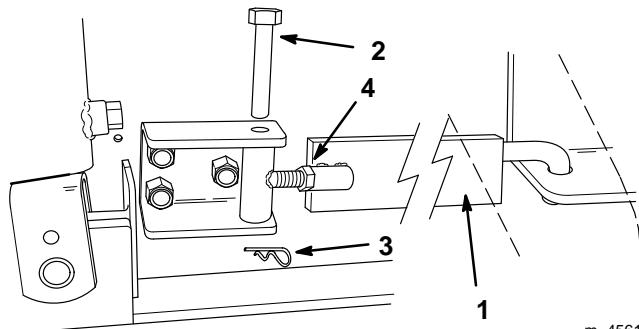
**Figure 9**

1. Tilt cylinder pin	3. Link
2. Backhoe link pin	4. Linch pin

15. Install the side bars on each side as illustrated in Figure 10.

16. If the bars do not fit snuggly, remove them, loosen the jam nut, and thread the compound side bar together or apart as needed to ensure that they fit as tight as possible (Fig. 10). Tighten the jam nut when finished.

**Note:** If you have a four-wheel drive, diesel traction unit, you may need to loosen the hood and slide it up in the mounting slots to ensure that the hood does not interfere with the side bars.



**Figure 10**

1. Side bar	3. Hairpin cotter
2. Pin	4. Jam nut

## Installing a Bucket

The backhoe does not come with a bucket installed because several sizes of buckets are available for you to choose from. Install your bucket as follows:

1. Install the backhoe onto the traction unit and raise the dipperstick above the ground.
2. Remove the bolts and nuts securing each of the two bucket pins to the dipperstick (Fig. 11).
3. Remove the pins.

- Align the pin holes in the bucket with the mounting holes in the dipperstick (Fig. 11).
- Secure the bucket with the pins, bolts, and nuts removed previously (Fig. 11).

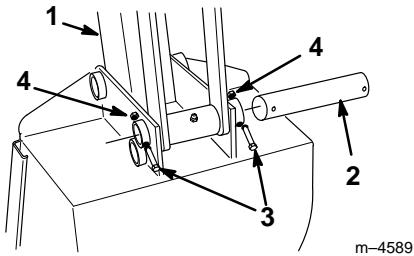


Figure 11

1. Dipperstick  
2. Bucket pin  
3. Bolt  
4. Nut

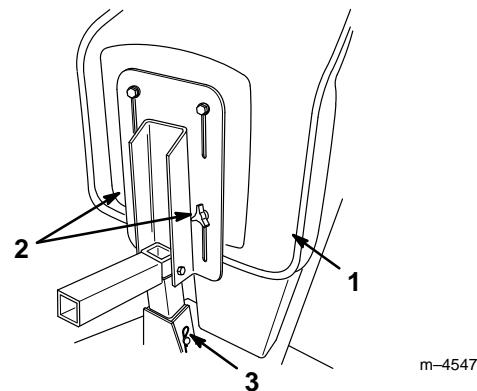


Figure 12

1. Seat  
2. Knobs  
3. Pin and hairpin cotter

## Adjusting the Seat

**CAUTION**

**POTENTIAL HAZARD**

- The seat mounting bracket has several pinch points.

**WHAT CAN HAPPEN**

- You could pinch and/or cut your fingers when adjusting the seat.

**HOW TO AVOID THE HAZARD**

- Take care to keep your fingers away from the seat mounting bracket when moving the seat up and down and when lowering the seat into position.

- Stop the engine.
- Tilt the seat forward.
- Loosen the knobs on the bottom of the seat (Fig. 12) and slide the seat forward or back as needed.
- To adjust the seat height, remove the hairpin cotter and pin from the seat stand (Fig. 12) and raise or lower the seat as required.

- When you have the proper height, install the pin and hairpin cotter to secure the seat.

## Removing the Backhoe from the Traction Unit

- With the backhoe secured in the transport position (refer to Preparing for Transport, page 12), move the backhoe to a level storage area and stop the engine.
- Remove the hairpin coppers and pins securing the side bars and remove the side bars.
- Pin the side bars in the storage positions as illustrated in Figure 13.

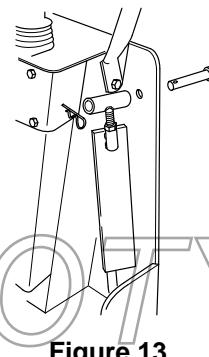
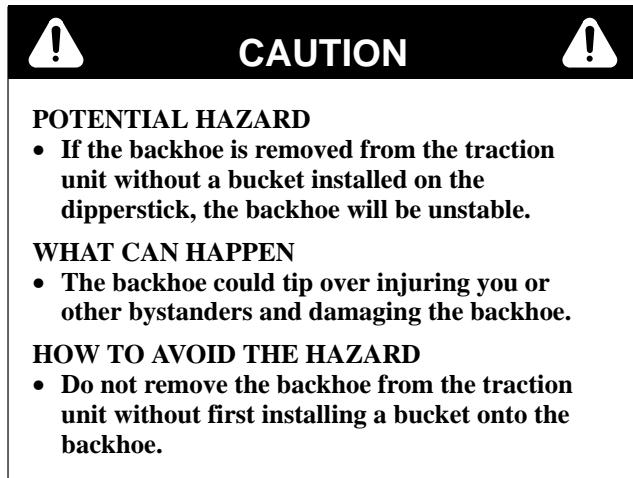


Figure 13

- Start the engine.
- Remove the linch pins securing the links and remove the links.

**Note:** You may need to adjust the tilt lever slightly to loosen the links.

6. Secure the links and two lynch pins for storage on the pins on the backhoe and the other two lynch pins on the traction unit tilt cylinder pin.
7. Tilt the backhoe forward slowly until the storage supports on the backhoe receiver plate and the bucket contact the ground.



8. Stop the engine.
9. Move the auxiliary hydraulic lever forward, backward, and back to the neutral position to relieve hydraulic pressure at the hydraulic couplers.
10. Slide the collar back on hydraulic couplers and disconnect them.
11. Install protective covers onto the hydraulic couplers on the traction unit.
12. Connect the attachment hoses together to prevent hydraulic system contamination during storage.
13. Disengage the attachment lock pins by turning them to the outside.
14. Start the engine.
15. Tilt the mount plate forward and back the traction unit away from the backhoe.

# Operation

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

## Operation Checklist

To ensure safe, effective use of the backhoe, ensure that you complete the following activities before, during, and after operating the backhoe:

**Note:** For detailed descriptions of these procedures, refer to Installing the Backhoe on the Traction Unit (page 6) and Operating the Backhoe (page 10).

### Before Operation:

- Locate and mark underground utilities.
- Install the counterweight on the traction unit.
- Install the links between the backhoe and the tilt cylinder pin on the traction unit.
- Install the side bars between the backhoe and the traction unit frame.
- Install the hydraulics lever clamp over the traction unit controls.
- Lower the stabilizer arms before digging.

### During Operation:

Only operate the backhoe from the backhoe seat.

Only move the traction unit from the traction unit operator's position and not from the seat of the backhoe.

### After Operation:

Install the pins securing the boom from moving up and down and side to side (Figs. 17 and 18) before leaving the backhoe unattended.

**PROTOTYPE**

# Backhoe Overview

Figure 14 illustrates the backhoe. Familiarize yourself with all of the components listed in Figure 14.

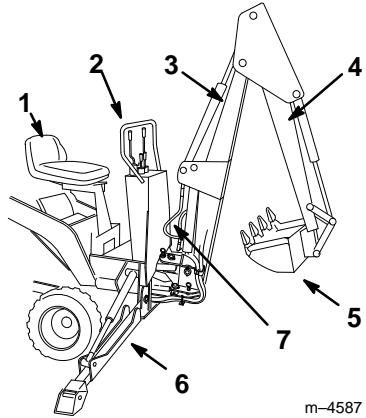


Figure 14

- 1. Seat
- 2. Controls
- 3. Boom
- 4. Dipperstick
- 5. Bucket
- 6. Stabilizer
- 7. Speed adjustment valve

## Controls

Familiarize yourself with all of the controls listed in Figure 15 before you operate the backhoe.

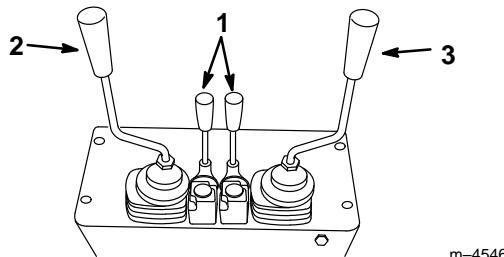


Figure 15

- 1. Stabilizer control levers
- 2. Boom control lever
- 3. Dipperstick/bucket control lever

## Stabilizer Control Levers

Move the stabilizer control levers forward to lower the stabilizers and rearward to raise the stabilizers.

## Boom Control Lever

Move the boom control lever forward to lower the boom and rearward to raise the boom. Move the boom control lever to the right to swing the boom to the right and move it left to swing the boom to the left.

You can also move the boom control lever into an intermediate position (i.e., forward and left, forward and right, rearward and left, or rearward and right) to swing the boom at the same time as you raise or lower it.

## Dipperstick/Bucket Control Lever

Move the dipperstick/bucket control lever forward to extend the dipperstick and rearward to retract the dipperstick. Move the dipperstick/bucket control lever to the right to dump the bucket and move it left to load the bucket.

You can also move the dipperstick/bucket control lever into an intermediate position (i.e., forward and left, forward and right, rearward and left, or rearward and right) to extend or retract the dipperstick at the same time as you load or dump the bucket.

# Operating the Backhoe

## Preparing the Backhoe

1. Drive to the work location.
2. If your traction unit has a parking brake, engage it.
3. Pull the auxiliary hydraulics lever to the operator grip and install the hydraulics lever clamp by pushing it over the hand grip and sliding it right so that the pin through the clamp slides under the right hand grip (Fig. 16).

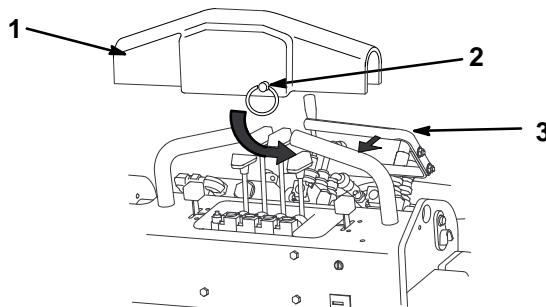
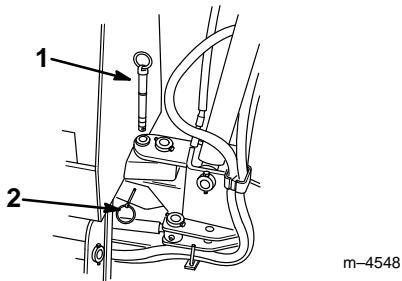


Figure 16

- 1. Hydraulics lever clamp
- 2. Pin
- 3. Auxiliary hydraulics lever

4. Push the stabilizer control levers forward to lower both stabilizers until they touch the ground and the front wheels of the traction unit come off of the ground slightly.
5. Remove the two pins locking the boom in place (Figs. 17 and 18) and place them in the storage positions (Fig. 19).

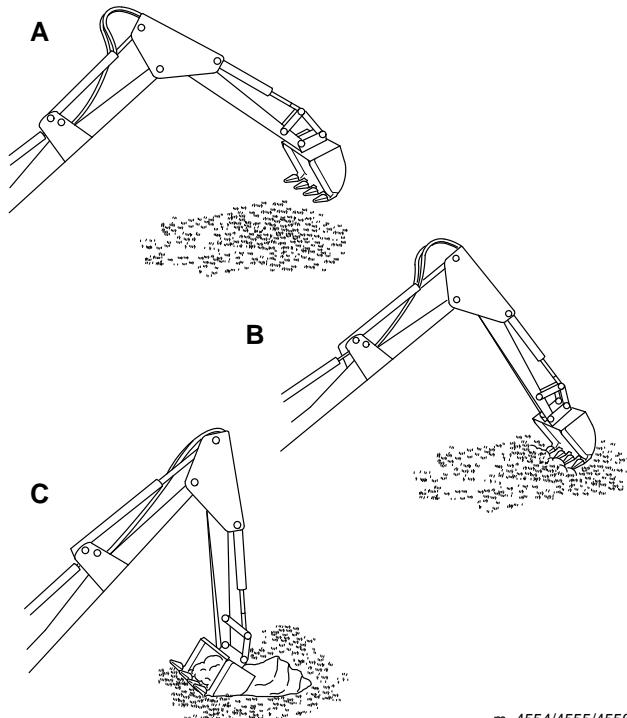
**Note:** One pin prevents the boom from swinging side to side (Fig. 17) and the other prevents the boom from moving up and down (Fig. 18).



**Figure 17**

1. Pin

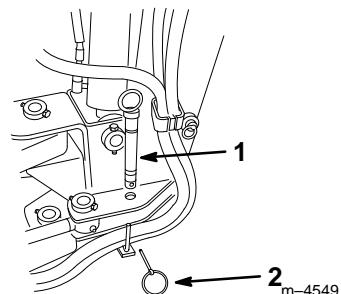
2. Lynch pin



**Figure 20**

1. Pin

2. Lynch pin

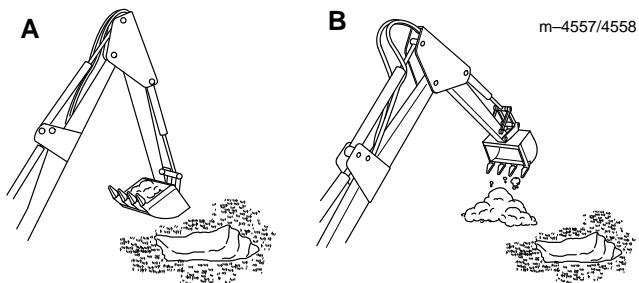


**Figure 19**

1. Pin

2. Lynch pin

To empty the bucket you swing it to the left or right and extend the dipperstick and uncurl bucket, dumping the load (Fig. 21).



**Figure 21**

## Digging a Hole

Using a backhoe with precision and proficiency takes time and practice. In general you dig a hole by extending the dipperstick and bucket, lowering them into the ground, and then pullback on the dipperstick while raising the boom and curling the bucket rearwards (Fig. 20).

The distance you extend the dipperstick and bucket and the size of bite you take will vary greatly with the soil type, moisture content of the soil, and obstructions in the soil, such as tree roots and rocks.

Spend some time practicing with the backhoe to get the feel for how it operates and how to best use it in the conditions in which you work. Please read and use the following tips when operating the backhoe:

- Do not dig too close to the backhoe body or stabilizers. The backhoe could undercut the stabilizers or traction unit causing the machine to fall into the hole.



## WARNING



### POTENTIAL HAZARD

- If you dig too close to the backhoe, the backhoe could fall into the hole.

### WHAT CAN HAPPEN

- The backhoe and traction unit could tip on top of you into the hole causing severe injury.

### HOW TO AVOID THE HAZARD

- Ensure that you do not dig within three feet of the backhoe or stabilizers.

- Do not take large bites of soil. Instead, sweep the bucket through the soil using the swinging motion of the dipperstick a few inches deep at a time.
- If the bucket catches in the soil, uncurl the bucket, raise the boom slightly, and continue digging.
- If your traction unit has a speed selector, set it to the fast position (rabbit) while you are learning how to operate the backhoe (this will slow the backhoe down). Set it to the slow position (turtle) once you feel you have mastered the use of the backhoe.
- If your traction unit has a flow divider, set it to the 11 o'clock position.

## Preparing for Transport

- Fully raise the boom, retract the dipperstick, and curl the bucket rearward (Fig. 14). Ensure that you center the boom locking pin holes as much as possible.
- Pull the stabilizer levers rearward until the stabilizers are fully raised.
- Stop the engine and remove the key.
- Secure the boom using the two pins removed prior to operation (Figs. 17 and 18).



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**Figure 22**

1. Pin	3. Hole in seat support
2. Clamp	

- Slowly transport the backhoe as needed.

## Maintenance



## 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.

## Service Interval Chart

Service Operation	8 Hours	Storage Service
Grease fittings	X	X
Chipped surfaces—paint		X

## Greasing and Lubrication

### Service Interval/Specification

Grease all fittings every 8 operating hours (Fig. 23). Note that in most cases the grease fittings are located in the center of every pivot pin. Grease all fittings immediately after every washing.

Grease Type: General-purpose grease

### How to Grease

1. Stop the engine and remove the key.
2. Clean the grease fittings with a rag.
3. Connect a grease gun to each fitting.
4. Pump grease into the fittings until grease begins to ooze out of the bearings.
5. Wipe up any excess grease.

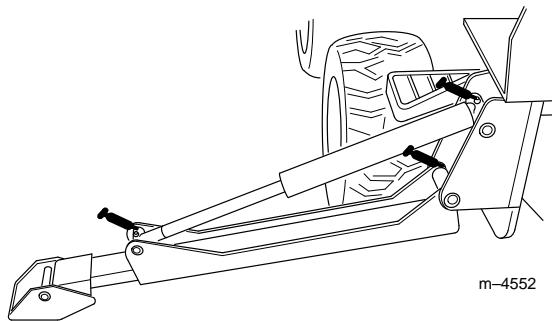
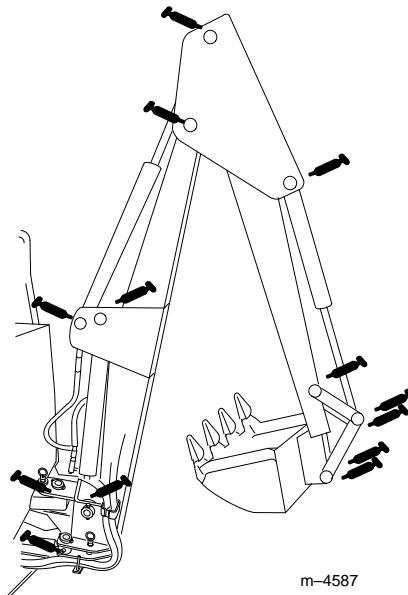


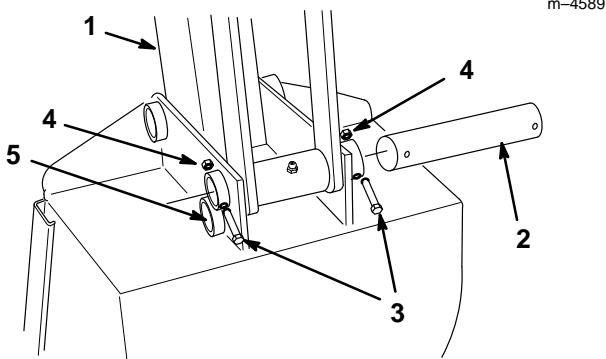
Figure 23

## Changing the Bucket Orientation

You can change the angle that the bucket is mounted on the dipperstick to a position that allows you to dig more vertically. This will allow you to dig very close to a foundation, or dig a square-sided hole. To change the orientation, complete the following procedure:

1. Remove the bolts and nuts securing the upper bucket pin (Fig. 24).
2. Remove the pin.
3. Swing the bucket up, aligning the second set of holes with the mounting holes on the dipperstick (Fig. 24).
4. Secure the bucket with the pin, bolt, and nut removed previously.

PROTOTYPE

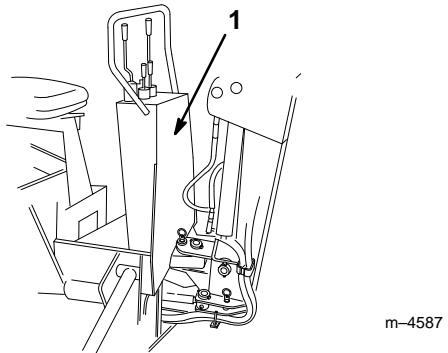


**Figure 24**

- 1. Dipperstick
- 2. Upper bucket pin
- 3. Bolt
- 4. Nut
- 5. Second set of holes

m-4589

The two valves that control the left and right swing of the boom are located inside of the controls access panel (Fig. 26). To access these valves, remove six locknuts and the panel. Adjust both valves equally. Replace the access panel when finished.



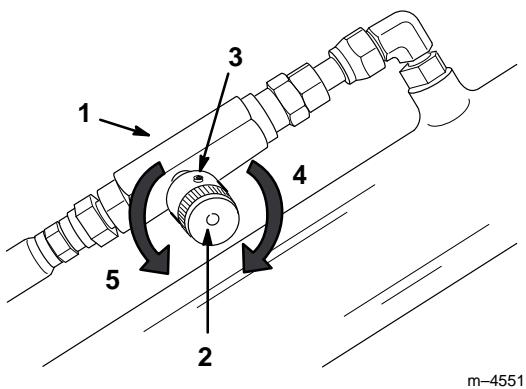
m-4587

**Figure 26**

- 1. Controls access panel

## Changing the Boom Speed

You can change the speed that the boom moves up and down and left and right by changing the setting of three speed adjustment valves. The valve that controls the up and down movement is located on top of the boom (Fig. 14).



m-4551

**Figure 25**

- 1. Speed adjustment valve
- 2. Knob
- 3. Set screw
- 4. Slow
- 5. Fast

PROTOTYPE

To adjust the valves, complete the following procedure and refer to Figure 25.

1. Loosen the set screw located on the side of the knob on the valve.
2. To increase the speed of the boom, turn the knob counter-clockwise.
3. To decrease the speed of the boom, turn the knob clockwise.
4. Tighten the set screw.

## Storage

1. Before long term storage wash the attachment with mild detergent and water to remove dirt and grime.
2. Apply grease to all grease fittings.
3. Check and tighten all bolts, nuts, and screws. Repair or replace any part that are damaged or worn.
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
Backhoe does not operate	<ol style="list-style-type: none"> <li>1. Hydraulic coupler not completely connected</li> <li>2. Auxiliary hydraulics valve on the traction unit is not fully engaged.</li> <li>3. Transport pins were not removed.</li> <li>4. Hydraulic fluid level is low.</li> <li>5. Damaged hydraulic coupler</li> <li>6. Obstructed hydraulic hose</li> <li>7. Pinched hydraulic hose</li> <li>8. Auxiliary hydraulic valve on the traction unit is not opening.</li> <li>9. Hydraulic coupler not completely connected</li> <li>10. Bent piston rod</li> </ol>	<ol style="list-style-type: none"> <li>1. Check and tighten all couplers.</li> <li>2. Engage the valve.</li> <li>3. Remove the pins.</li> <li>4. Fill the traction unit hydraulic tank.</li> <li>5. Check couplers and replace any that are defective.</li> <li>6. Find and remove the obstruction.</li> <li>7. Replace the hose.</li> <li>8. Repair the valve.</li> <li>9. Check and tighten all couplers.</li> <li>10. Contact your Authorized Toro Dealer.</li> </ol>
Backhoe is operating slowly	<ol style="list-style-type: none"> <li>1. Hydraulic oil is cold.</li> <li>2. Engine speed is too slow.</li> <li>3. Speed adjustment valve is set too slow.</li> <li>4. Pinched hydraulic hose</li> <li>5. Speed adjustment valve is leaking oil.</li> <li>6. Damaged cylinder</li> <li>7. Damaged hydraulic pump</li> </ol>	<ol style="list-style-type: none"> <li>1. Allow the engine to warm the oil before operating.</li> <li>2. Increase the throttle speed of the traction unit.</li> <li>3. Adjust the speed adjustment valve to obtain the desired speed.</li> <li>4. Replace the hose.</li> <li>5. Contact your Authorized Toro Dealer.</li> <li>6. Contact your Authorized Toro Dealer.</li> <li>7. Contact your Authorized Toro Dealer.</li> </ol>
Backhoe fails to hold up a load (all loads will normally settle down over a long period of time)	<ol style="list-style-type: none"> <li>1. Damaged hydraulic hose</li> <li>2. Damaged cylinder</li> <li>3. Damaged control valve</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace the hose.</li> <li>2. Contact your Authorized Toro Dealer.</li> <li>3. Contact your Authorized Toro Dealer.</li> </ol>
Hydraulic oil leakage	<ol style="list-style-type: none"> <li>1. Damaged hydraulic hose</li> <li>2. Damaged hydraulic system</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace the hose.</li> <li>2. Contact your Authorized Toro Dealer.</li> </ol>

PROBLEM	POSSIBLE CAUSES	CORRECTIVE ACTION
Swing cylinder malfunctioning	1. Damaged cylinders, swing restrictors, or cross-over relief valve	1. Contact your Authorized Toro Dealer.
Control valve sticking or working hard	1. Dirty hydraulic oil 2. Damaged or dirty valve 3. Damaged cylinder	1. Change the hydraulic oil. 2. Contact your Authorized Toro Dealer. 3. Contact your Authorized Toro Dealer.
Backhoe operation is spongy or jerky	1. Hydraulic fluid level is low. 2. Air in the hydraulic system 3. Hydraulic oil is cold. 4. Pinched hydraulic hose	1. Fill the traction unit hydraulic tank. 2. Extend the cylinders as far as possible and hold them in an extended position for several seconds. 3. Allow the engine to warm the oil before operating. 4. Replace the hose.

**PROTOTYPE**