

450 PTO Tiller for 4100 Compact Utility Tractors

(Serial No. 010001 –)



OPERATOR'S MANUAL

John Deere
Lawn & Grounds Care Division
OMM135955 A8

North American Version
Litho in U.S.A
English

INTRODUCTION

THANK YOU for purchasing a John Deere product.

Read this manual and your vehicle manual thoroughly. Failure to do so could result in personal injury or equipment damage.



This manual should be considered a permanent part of your machine and should remain with the machine when you sell it.

Measurements in this manual are metric units and their U.S. customary equivalents. RIGHT-HAND and LEFT-HAND sides are determined by facing in the direction the machine will travel when going forward. When you see a broken line arrow (---→) it indicates the part it is pointing to is hidden.

Product warranty is provided as part of John Deere's support program for customers who operate and maintain their equipment as described in this manual. The product warranty is explained on the warranty certificate you received from your dealer.

Record identification numbers below. Be sure to record all the numbers to help in tracing the machine if it is stolen. You also need to give these numbers to your dealer when you order parts.

Date of Purchase: _____	Dealer Name: _____ Phone: _____
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Consumer Equipment Division
Horicon, WI
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SAFETY SIGNS

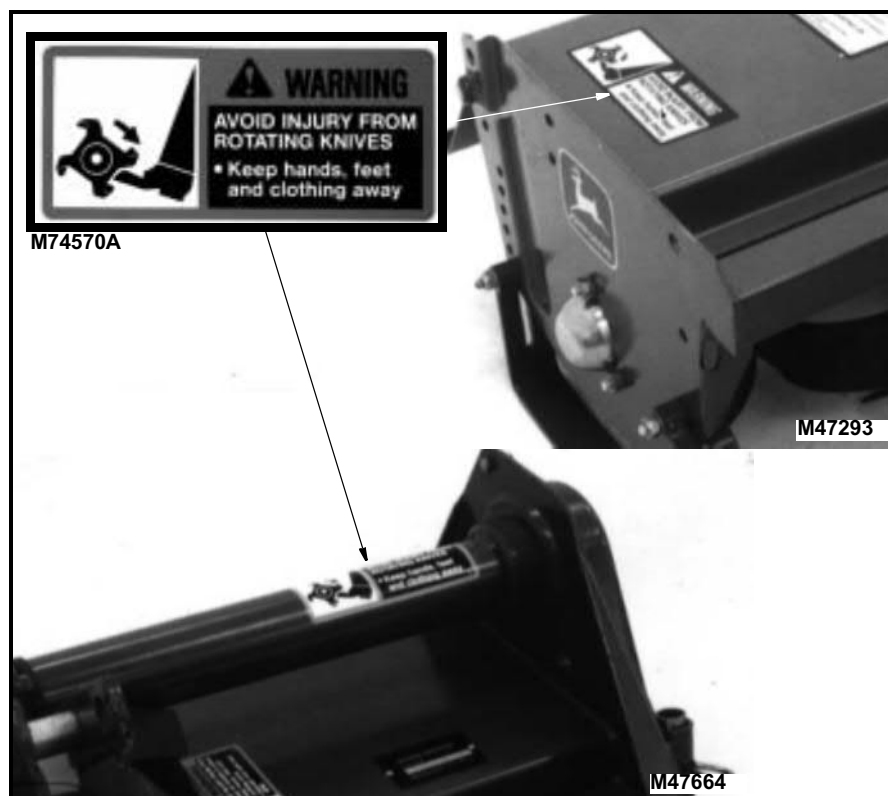
Safety-Alert Symbol

Read and recognize safety information. Be alert to the potential for personal injury when you see this safety-alert symbol.

On your machine safety labels, the words DANGER, WARNING, and CAUTION are used with this safety-alert symbol. DANGER identifies the most serious hazards. In this manual, the word CAUTION and this symbol call attention to safety messages.



Machine Safety Labels



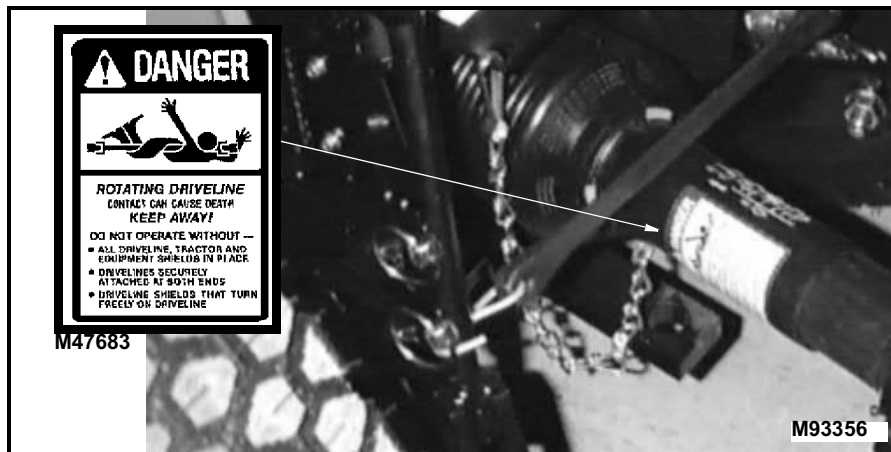
SAFETY SIGNS

Machine Safety Labels (Continued)



SAFETY SIGNS

Machine Safety Labels (Continued)



PREPARING THE VEHICLE

Preparing The Tractor



CAUTION: Avoid injury. Proper ballasting is required for safe operation of your tiller.

The 450 Tiller can be mounted to any tractor with a Category I, 3-point hitch.

IMPORTANT: Refer to the tractor operator manual for proper ballasting information and tire inflation.

- A Category I, 3-point hitch
- A 540 rpm PTO
- Refer to the tractor operator manual for correct ballasting and tire pressure, depending on installed equipment.

INSTALLING

Park Vehicle Safely

- Stop vehicle on a level surface, not on a slope.
- Disengage PTO.
- Engage the park brake.
- STOP the engine.
- Remove the key.
- Before you leave the operator's seat, wait for engine and all moving parts to STOP.

Stay Clear Of Rotating Drivelines

Entanglement in rotating driveline can cause serious injury or death:

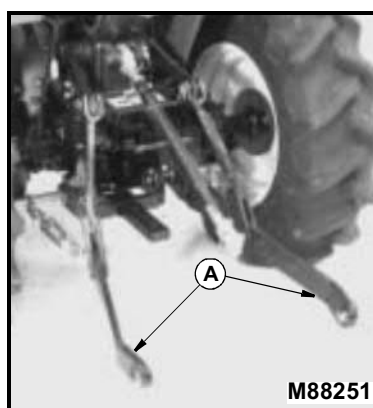


- Wear close fitting clothing.
- STOP the engine and be sure PTO driveline is stopped before getting near it.

Installing Tiller On Tractor

IMPORTANT: Fill gearbox to proper oil level before you operate tiller. (See the Service – Lubrication section.) **DO NOT** overfill.

1. Back tractor into position and align draft links (A) with draft link brackets on tiller using tractor rockshaft control.



INSTALLING



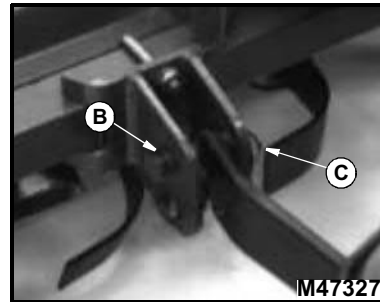
CAUTION: Before you work around hitch:

- STOP engine.
- LOCK park brake.

IMPORTANT: Standard Category I pins are required to attach the 450 tiller to the 4100 compact tractor. Pins should be ordered from your John Deere dealer.

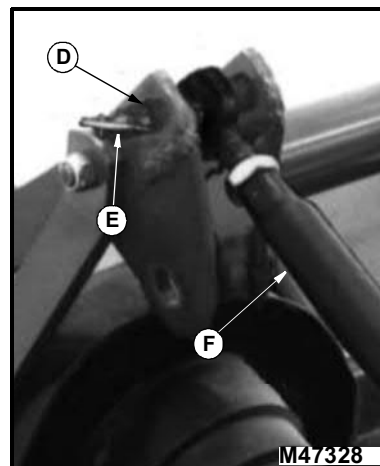
NOTE: Locate drilled pin in top holes (B).

2. Fasten each draft link to draft link brackets with drilled pins and quick-lock pins (C).



NOTE: Locate drilled pin in top holes (D).

3. Install center link (F) on tiller and fasten with drilled pin and quick-lock pin (E).



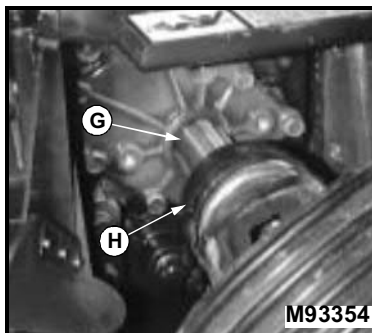
INSTALLING

IMPORTANT: The PTO shaft required to install the 450 tiller to the 4100 tractor is different from the PTO shaft required for installation of the 450 tiller to the 400 Series tractors. Be sure the correct shaft is installed before operating the machine.

4. Install PTO shaft to tractor.

IMPORTANT: Tiller **MUST BE** level front to rear.

- Pull PTO shaft collar (H) rearward and install coupler onto tractor splined shaft (G).
- Push PTO collar completely onto shaft until collar snaps into LOCKED position. Pull on shaft to make sure coupler is locked.



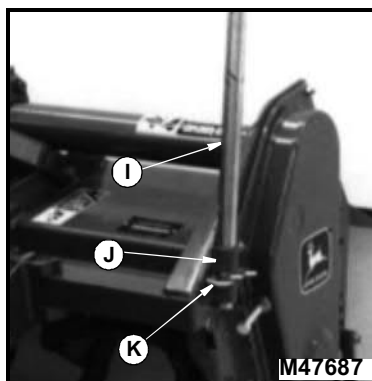
5. Raise tiller.

6. Remove quick pull pin from parking stand.

7. Turn parking stand (I) upside down and put in bracket (J) on tiller.

8. Fasten with spring locking pin (K).

9. Level tiller. (See Leveling Tiller in the Operating Tiller section.)



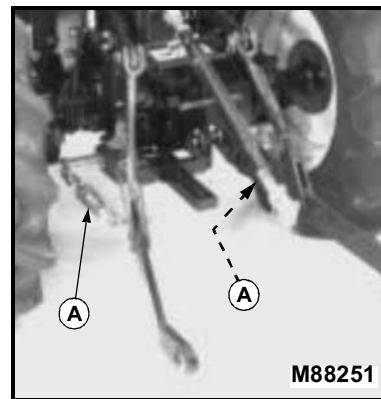
10. Adjust sway chains on lower draft arms to minimize side sway to a maximum of 25 mm (1 in.) on each side.

INSTALLING

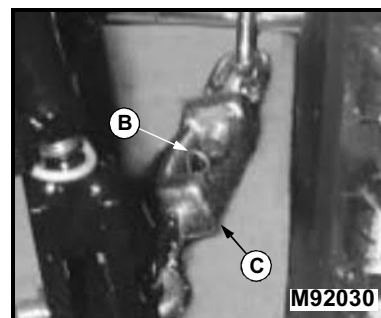
Adjusting Sway Chains

NOTE: Check tractor operator manual for adjusting sway links. When sway links have been properly adjusted, side sway is controlled by position of chains.

Use left and right sway links (A) to adjust 3-point hitch implement side-to-side sway.



1. Remove locking pin (B).
2. Rotate turnbuckle (C) to lengthen or shorten.
3. Install locking pin.



REMOVING

Park Vehicle Safely

- Stop vehicle on a level surface, not on a slope.
- Disengage PTO.
- Engage the park brake.
- STOP the engine.
- Remove the key.
- Before you leave the operator's seat, wait for engine and all moving parts to STOP.

Stay Clear Of Rotating Drivelines

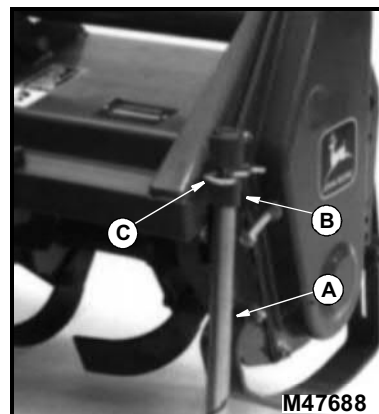
Entanglement in rotating driveline can cause serious injury or death:

- Wear close fitting clothing.
- STOP the engine and be sure PTO driveline is stopped before getting near it.



Removing Tiller

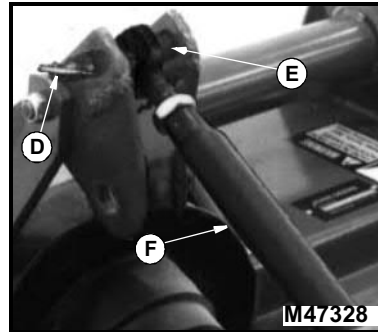
1. Raise tiller.
2. Put parking stand in the DOWN position:
 - Remove spring locking pin.
 - Remove parking stand from tiller.
 - Turn parking stand (A) right side up and put in bracket (B) on tiller.
 - Fasten with spring locking pin (C).



REMOVING

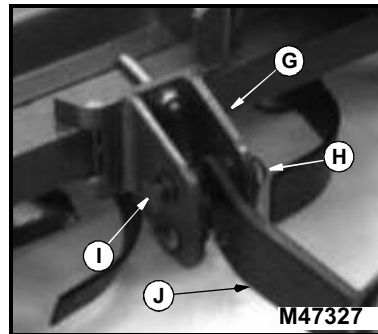
3. Lower tiller to the ground.
4. Disconnect driveline from tractor by pulling back on coupler to release it from the LOCKED position.
5. Remove quick-lock pin (D) and drilled pin (E) from center link (F).

NOTE: Put quick-lock pin and drilled pin back into bracket on tiller for storage.



6. Remove draft links (J) from draft link brackets (G) by removing quick-lock pins (H) and drilled pins (I).

NOTE: Put quick-lock pins and drilled pins back into brackets on tiller for storage.



7. Drive tractor forward slowly.

OPERATING

Operate Safely

- Check vehicle brake action before you operate. Adjust or service brakes as necessary.

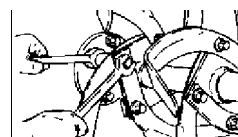


- Protect your hands when you inspect or unplug the tiller. You may need gloves or tools, such as a screwdriver or scraper. Be sure hardware is tight. Repair or replace damaged, badly worn, or missing parts. Be sure guards and shields are in good condition and fastened in place. Make any necessary adjustments before you operate.



- Clear work area of objects that you do not want tilled into the ground or that might damage the tiller. Consider the tilling area and set up a safe tilling pattern. Do not till under conditions in which traction or stability is doubtful. Keep people and pets out of the work area. Stop machine if anyone enters the area.

- If you hit an object, stop the machine and inspect it. Make repairs before you operate. Keep machine properly maintained and in good working order.



- DO NOT leave machine unattended when it is running.
- Only operate during daylight or with good artificial light.
- DO NOT let anyone, ESPECIALLY CHILDREN, ride on machine or vehicle. Riders are subject to injury such as being struck by foreign objects and being thrown off. Riders may also obstruct the operator's view, resulting in the machine being operated in an unsafe manner.
- DO NOT let children or an untrained person operate machine.
- Do not wear radio or music headphones while operating the machine. Safe operation requires your full attention.
- DO NOT operate the tractor and tiller when you are tired or ill.

OPERATING

Wear Appropriate Clothing

- Wear close fitting clothing and safety equipment appropriate for the job.
- Loud noise can cause impairment or loss of hearing, wear a suitable protective device such as earplugs.



Stay Clear Of Rotating Drivelines

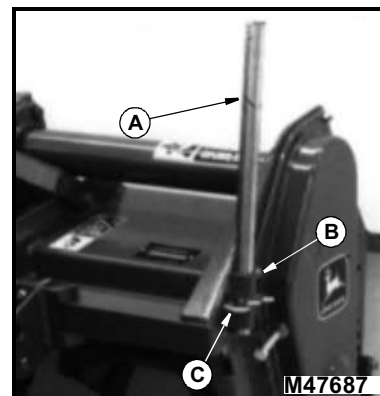
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Raising Parking Stand

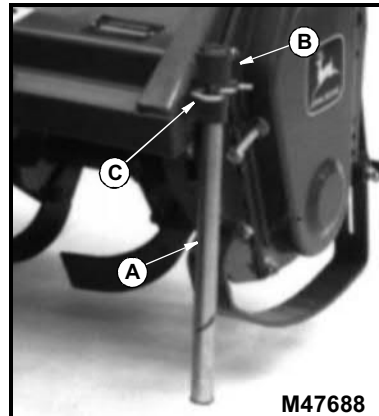
1. Remove spring locking pin.
2. Remove parking stand from tiller.
3. Turn parking stand (A) upside down and put in bracket (B) on tiller.
4. Fasten with spring locking pin (C).



OPERATING

Lowering Parking Stand

1. Remove spring locking pin.
2. Remove parking stand from tiller.
3. Turn parking stand (A) right side up and put in bracket (B) on tiller.
4. Fasten with spring locking pin (C).



Tractor Adjustments

Sway Control:

- Adjust anti-sway chains on 3-point hitch to minimize tiller from swaying. Maximum sway SHOULD BE 50 mm (2 in).

Depth:

- Use 3-point hitch depth stop to adjust tilling depth. Tiller depth can be adjusted 25–178 mm (1–7-in).



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OPERATING

Raising And Lowering Tiller



CAUTION: When you raise tiller out of ground or lower tiller into ground, tractor may surge forward.

- Be ready to STOP PTO and tractor.
- Avoid **DISENGAGING** the tractor transmission before raising the tiller out of the ground.

IMPORTANT: To help improve universal joint life, **DISENGAGE** the rear PTO when the tiller is **FULLY** raised.

NOTE: The depth control lever has a label showing numbers 1 through 9. These numbers are for reference only. The lower the number, the closer the draft arms will be to the ground.


1. Use depth control lever (A) on right side of seat to raise and lower equipment attached to the 3-point hitch.

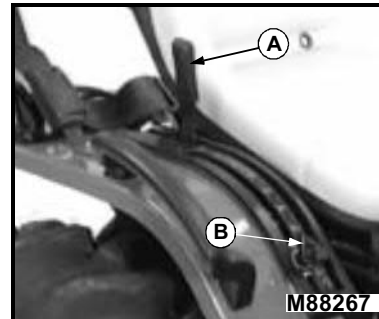
To adjust depth stop: Lower equipment to desired operating position. Loosen depth stop knob (B) and position stop against depth control arm. Tighten knob.

The equipment will now return to the same pre-set operating position each time it is lowered.

To lower equipment: Push lever forward.

To raise equipment: Pull lever rearward.

2. Adjust throttle lever until tachometer indicator is pointing at the special marker labeled "540 ". Engine speed should be 2650 rpm and PTO speed should 540 rpm.



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