



JOHN DEERE

USE AND CARE

48" Front Mount Dethatcher

Read the general safety operating precautions in your machine operator's manual for additional safety information.

CALIFORNIA - Proposition 65 Warning.

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.



If this product contains a gasoline engine:

WARNING: The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

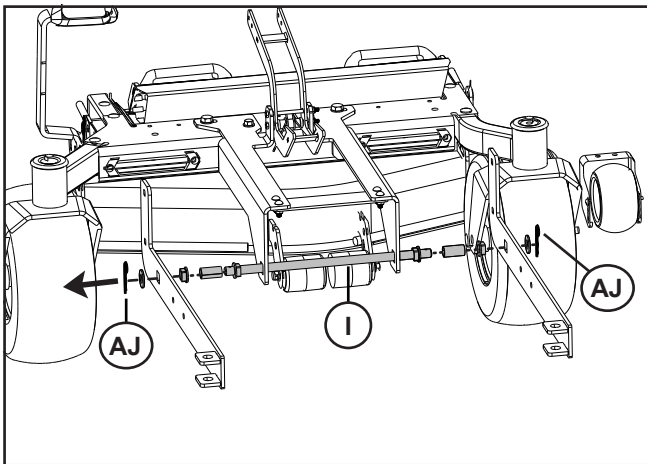
The State of California requires the above two warnings.
Additional Proposition 65 Warnings can be found in this manual.

Installation / Removal

Read the general safety operating precautions in your machine operator's manual for additional safety information.

Removing

1. Park machine safely.
(See "Parking Safely" in Safety section).

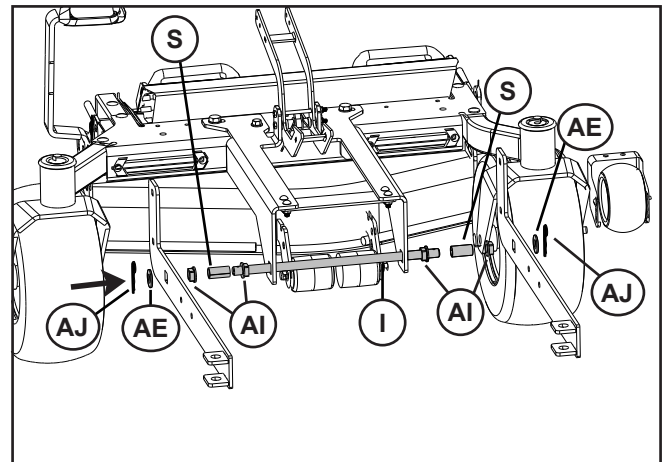


2. Remove one of the hairpin cotters (**AJ**) from axle (**I**) of dethatcher.
3. Pull axle from lift arms and removed the assembled lift arms and tray from the frame.

Installing

NOTE: Refer to illustration in the Removal Section, earlier in this manual.

1. Park machine safely.
(See "Parking Safely" in Safety section).
2. Align lift arms with the left and right mounts.
3. Assemble the lift arm assembly to the mounts using axle (**I**), four square bearings (**AI**), two spacers (**S**), two washers (**AE**), and two cotter hairpins (**AJ**) as shown.



Storing

Storing



CAUTION: Avoid injury!

Dethatcher tines can cause severe puncture wounds and death! Prevent contact with thatcher tines:

- *Always store dethatcher with tines facing floor surface.*
- *Never store dethatcher on elevated shelving. Dethatcher could fall onto bystanders.*

Before placing dethatcher in storage:

1. Tighten loose tines.
Replace damaged or missing tines.
2. Verify all tine retention wires are secure.
3. Clean attachment.
4. Repair or replace worn, bent, or damaged parts.
Tighten loose hardware.
5. Lightly sand any rust spots on main frame and brackets and apply paint as needed.
6. Apply paint to painted surfaces where needed to prevent rust.
7. Apply a thin coat of grease to tines and springs to prevent rust.
8. Lubricate any pivot points with engine oil to prevent rust.



CAUTION: Avoid damage!

ABRASIVE SURFACES CAN DAMAGE THE ATTACHMENT.

Store attachment on non-abrasive surface or on wooden blocks.

9. If storing attachment outdoors, block up attachment if possible and place a waterproof cover over it.

Operation

When to Use Dethatcher

The best times to dethatch are spring and fall. Grass should be less than 76 mm (3 in.) high for proper tine action.

Spring dethatching gives the grass a chance to grow strong before summer takes its toll, while a fall treatment will prevent pests from finding a fertile breeding ground in your lawn.

Use John Deere's tow-behind thatcherator to pull up excess thatch.

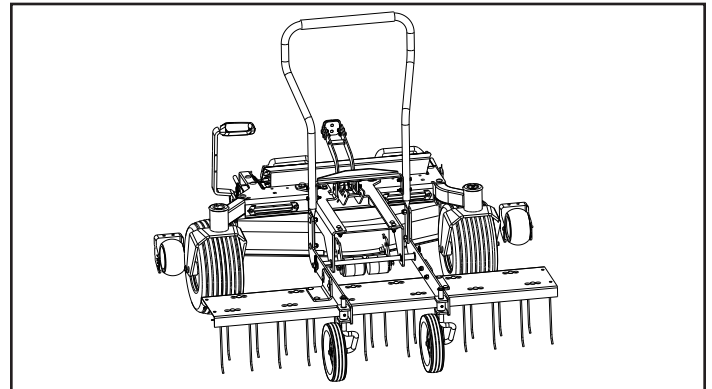
Using Dethatcher to Seed

Dethatcher can be used as a scarifier to scratch new ground to seed, or an established lawn to reseed. Lower dethatcher tines to operating position until, when operating, tines stay in their rearward working position, scratching ground and producing a good seedbed for seeds to germinate.

Do Not Modify Dethatcher

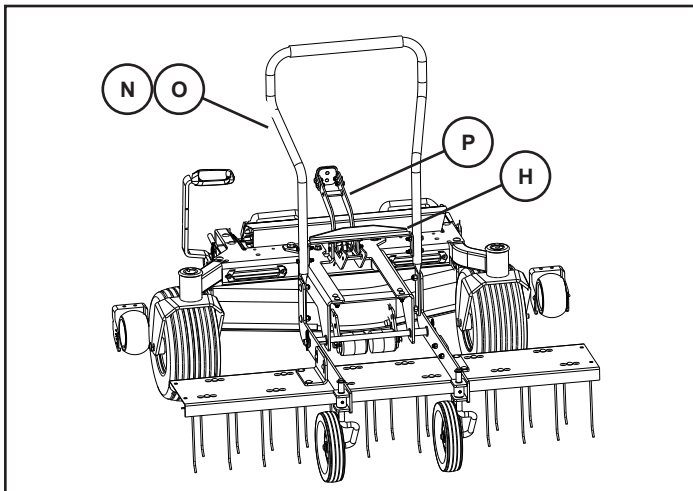
Unauthorized modifications of dethatcher may impair its function or safety, and reduce dethatcher longevity.

Tine retention safety wires prevent loose or broken tines from falling into mower path. Do not alter or remove any part of tine retention safety wires. If retention safety wires break or become removed from dethatcher, replace rods with parts from dealer before continuing dethatcher operation.



Operation

Using Lift Handle



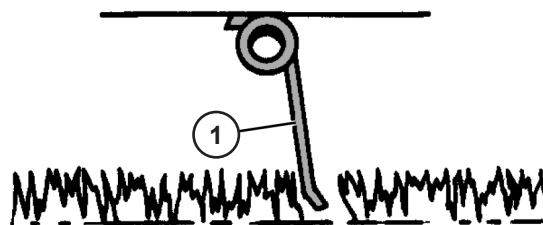
To Raise Dethatcher: Pull lift handle assembly (N,O) toward rear of machine until latch pedal (P) locks onto latch bar (H). Release handle when tray assembly is locked in an upright position.

To Lower Dethatcher: Pull lift handle assembly (N,O) toward rear of machine, press forward on latch pedal (P) and hold while slowly releasing lift handle assembly.

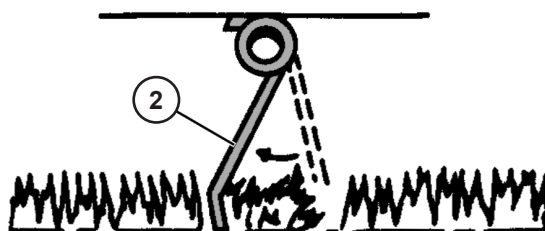
Adjusting Tine Action

Grass should be less than 76.2 mm (3 in.) tall for proper tine action. When in use, all tines on dethatcher should deflect back independently and flip thatch forward.

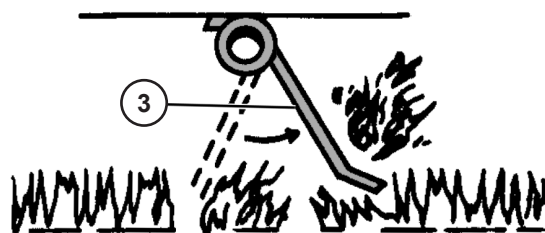
In the Free Position (1), tines are relaxed and not working.



In the Thatching Position (2), the tines are rearward and working.



Released Position (3), tines are flipping thatch up, ready to be picked up by mower / bagger or sweeper.



Operation

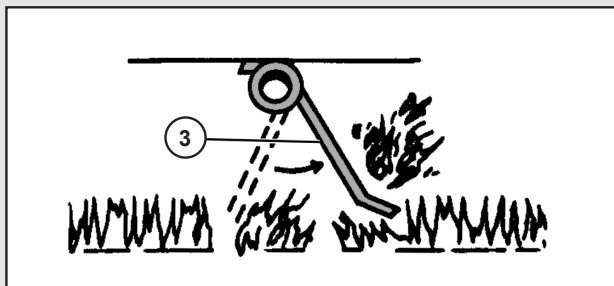
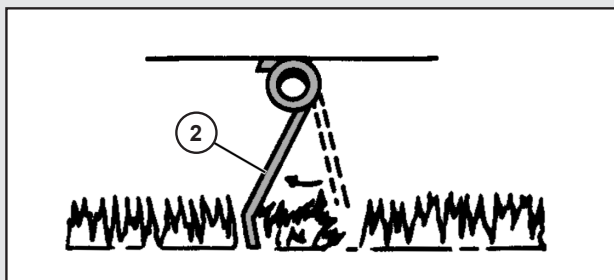
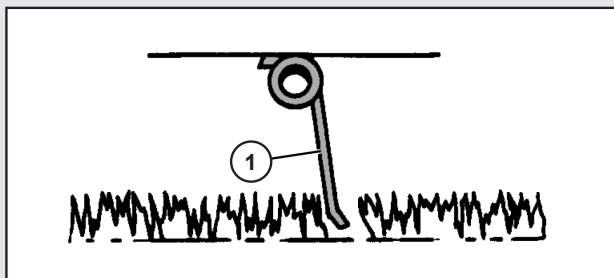
Thatching

Set dethatcher tines in released position (3) to loosen thatch for removal from lawn.

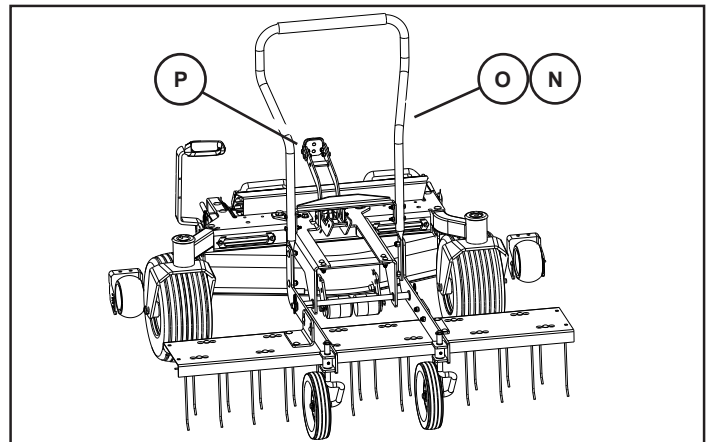
- If tines remain in thatching position (2) where they work but do not flip thatch up, lower wheels.
- If tines remain in free position (1) where they do not work or lift thatch, raise wheels.

Seeding

Set dethatcher tines to remain in thatching position (2) to seed or reseed lawn.



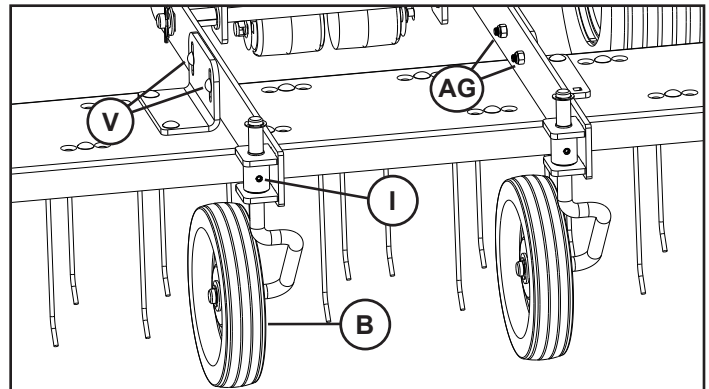
Leveling and Height Adjustment Steps 1 - 3.



NOTE: Level thatcher only when installed on mower.

1. Park machine safely.
(See *Parking Safely* in the **SAFETY** section.)
2. Pull lift handle assembly (**O,N**) toward rear of machine, press forward on latch pedal (**P**) and hold while slowly releasing lift handle assembly.
3. Place tines on a 1/2 inch shim to support the tines off the ground.

Step 4 - 6.



4. Loosen the four 3/8 x 1-1/4 in. carriage bolts (**V**) and lock nuts (**AG**) connecting the lift arms to tray assembly.
5. Level the tray then tighten all nuts.
6. Align each wheel (**B**) at same height supporting the tray using set screws (**I**) before removing the shim.

Operation

Checking Dethatcher Tines

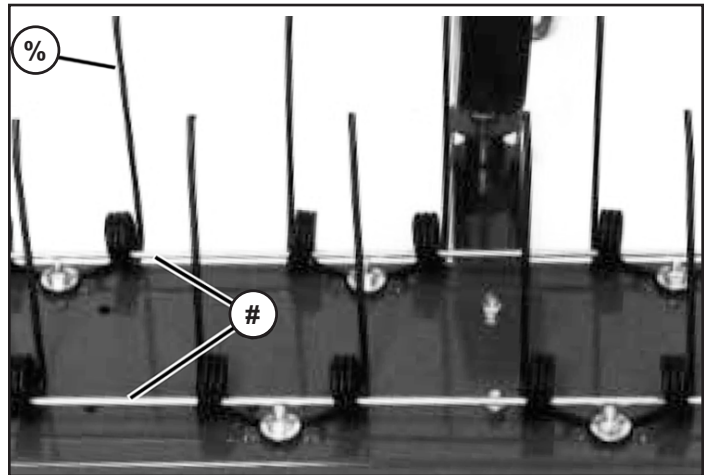


CAUTION: Avoid injury! A mower can pick up and throw broken tines.

Check tines on entire unit before and during each use. Replace cracked or broken tines before using dethatcher.

Check all tine retention safety wires. Secure if loose. Replace if damaged. Do not alter or remove.

1. Check tines (%) on entire unit for breaks or cracks. Replace broken or cracked tines with parts from the dealer.
2. Make sure retention safety rods (#) pass through all tines and are secured at ends.



Transporting Dethatcher

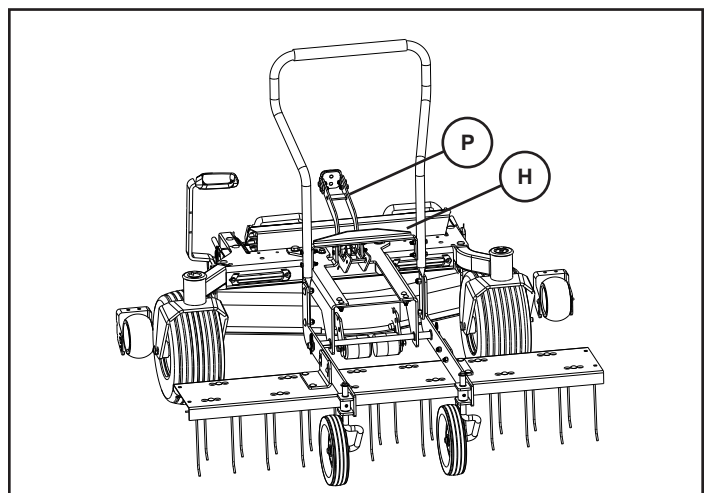
NOTE: When transporting, lock the dethatcher in transport position.



CAUTION: Avoid injury! Stop the machine before attempting to raise dethatcher to transport position.

Reduce speed when transporting thatcher in rough terrain. Always transport unit in up (transport) position.

1. Pull lift handle assembly toward rear of machine until latch pedal (P) locks onto latch bar (H). Release handle when tray assembly is locked in an upright position.



Service

Servicing the Attachment

CAUTION: Avoid injury! Tines are sharp. Wear gloves and handle with care. Shield sharp parts during service work.

Stop engine.

Set parking brake before performing any maintenance.

To prevent or eliminate rust on tines, apply a light oil on them after each use.

For rust appearing on any part of your attachment, sand lightly and coat with enamel.

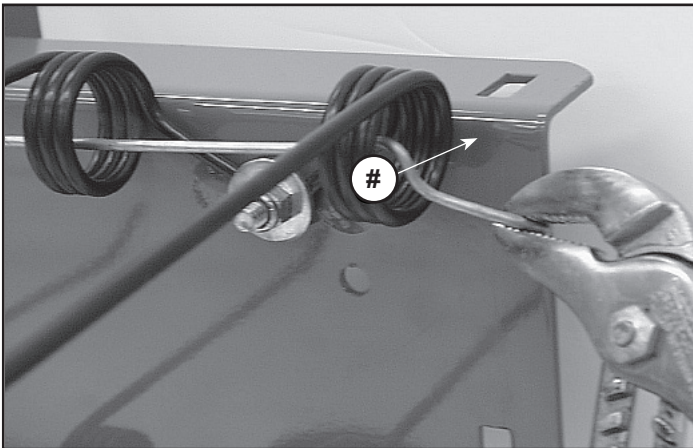
Apply a drop of lubricating oil to each nylon/tine bearing assembly, axles, springs, and working areas before each use.

Periodically check the tines. Remove any debris that might build up and restrict their action.

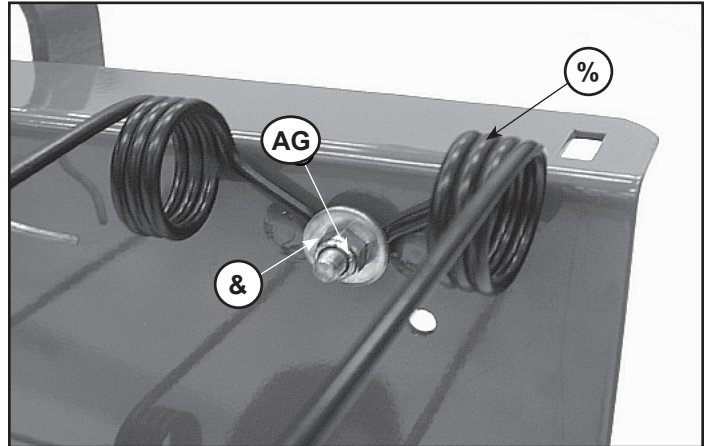
Periodically check tightness of all fasteners.

Disconnect battery or remove spark plug wire (for gasoline engines) before making any repairs to the mower.

Replacing Dethatcher Tines



1. Straighten end of retention safety wire (#) with pliers.
2. Remove safety wire from damaged tine set.



3. Remove and retain locknut (AG) and washer (&). Then remove and discard the damaged tine set.
4. Install new tine set making sure tine tips are pointed in same direction as the other tines on the unit. Secure with original hardware.
5. Slide safety wire through all tine coils. Bend ends of safety wire over last coil (%) at each end of unit.

Troubleshooting / Quality

Using Troubleshooting Chart

If you are experiencing a problem that is not listed in this chart, see your authorized dealer for service.

When you have checked all the possible causes listed and you are still experiencing the problem, see your authorized dealer.

If	Check
Debris Gets Stuck in Dethatcher	Back machine up with dethatcher lowered to free debris.
Dethatcher is Uneven	Level dethatcher.

John Deere Quality Continues with Quality Service

John Deere provides a process to handle your questions or problems, should they arise, to ensure that product quality continues with quality parts and service support.

Follow the steps below to get answers to any questions you may have about your product.

1. Refer to your attachment and machine operator manuals.
2. In North America or Canada, call Brinly-Hardy Co. Customer Service at 1-866-218-8622 and provide product serial number (if available) and model number.

Notes:

This product was manufactured by Brinly-Hardy Co., a John Deere Licensee, located at 3230 Industrial Pkwy, Jeffersonville, IN 47130. If you have any questions or concerns with the assembly, installation or operation of this attachment see your local John Deere Dealer or call Brinly-Hardy Co. at 866-218-8622 for assistance.

