

**74 and 84
Front Blade
For 4200, 4300, 4400, 4500 and 4600
Compact Utility Tractors** Serial No. (010001 -)



OPERATOR'S MANUAL

**John Deere
Worldwide Commercial And
Consumer Equipment Division
OMM138376 B9**

North American
Litho in U.S.A.
English

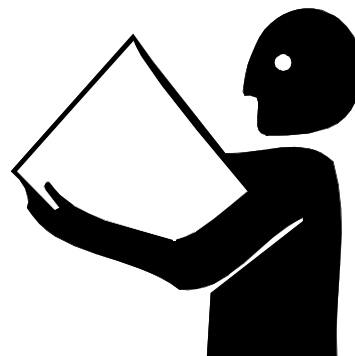
INTRODUCTION

THANK YOU for purchasing a John Deere product.

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

This manual should be considered a permanent part of your attachment and should remain with the attachment 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.



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:

DEALER PHONE:

PRODUCT IDENTIFICATION NUMBER (A):

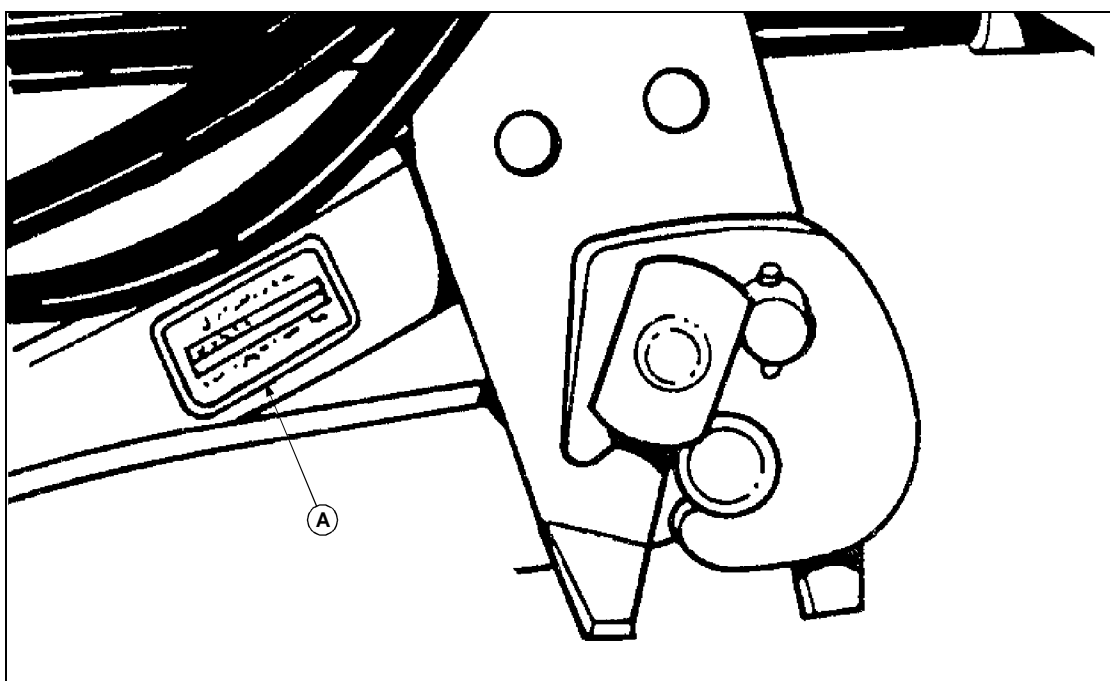


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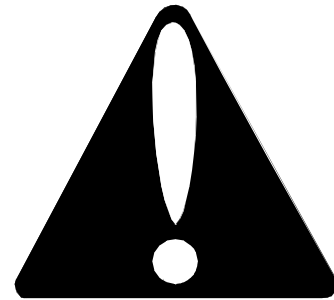
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SAFETY SIGNS

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

WARNING

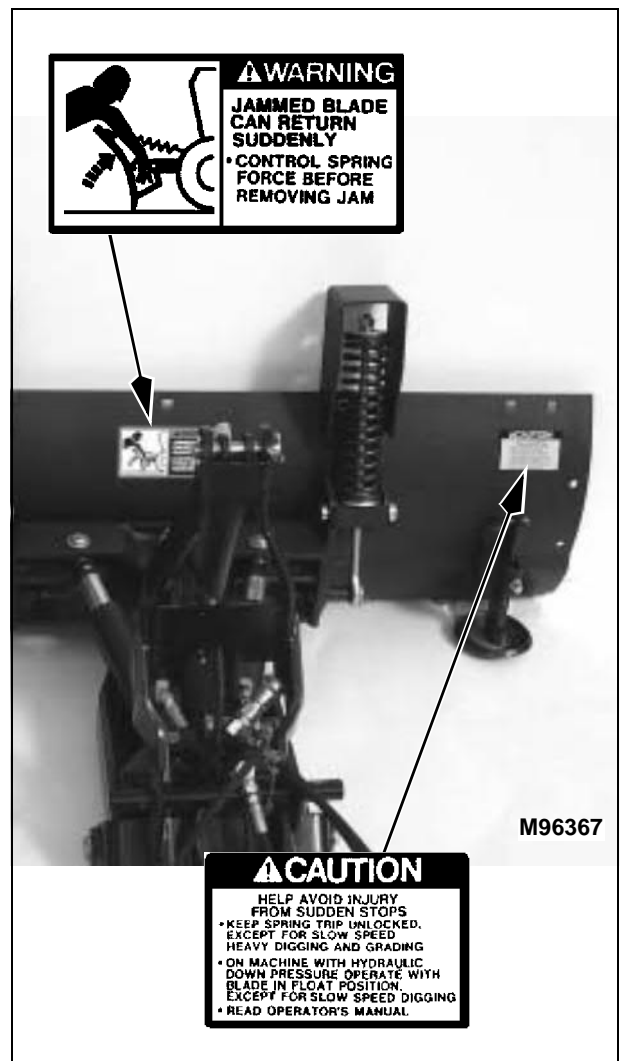
JAMMED BLADE CAN RETURN SUDDENLY

- CONTROL SPRING FORCE BEFORE REMOVING JAM

CAUTION

HELP AVOID INJURY FROM SUDDEN STOPS

- KEEP SPRING TRIP UNLOCKED, EXCEPT FOR SLOW SPEED HEAVY DIGGING AND GRADING
- ON MACHINE WITH HYDRAULIC DOWN PRESSURE OPERATE WITH BLADE IN FLOAT POSITION, EXCEPT FOR SLOW SPEED DIGGING
- READ OPERATOR'S MANUAL



PREPARING VEHICLE

Preparing Tractor

IMPORTANT: 4200 Compact Utility Tractors only:
Certain front tire combinations are incompatible with the Model 74 front blade. Refer to the chart below.

1. Check tire compatibility. Install different tires if necessary.

- **4200 Compact Utility Tractors—4WD**

Tire Size, Ply, Tread	Narrow Setting	Wide Setting
25 x 8.5-14, R3	Unacceptable	Unacceptable
23 x 8.5-12, R4	Acceptable	Acceptable
7.00-12, R1	Acceptable	Unacceptable

- **4200 Compact Utility Tractors—2WD**

Tire Size, Ply, Tread	Narrow Setting	Wide Setting
25 x 8.5-14, R3	Unacceptable	Unacceptable
4.00-15, F2	Acceptable	Acceptable

2. Install optional dual selective control valve (SCV). See your John Deere dealer to order.

3. Remove mower and mower attaching brackets if installed on your tractor. Store for future use. See operator's manual for information on removing brackets.

Ballast Information

IMPORTANT: Do not overload tires. See tractor operator's manual for maximum load per wheel.

1. Add rear ballast to increase traction.

2. Rear ballast can be a combination of:

- 3-point hitch weight box
- Rear wheel weights
- Fluid in rear tires

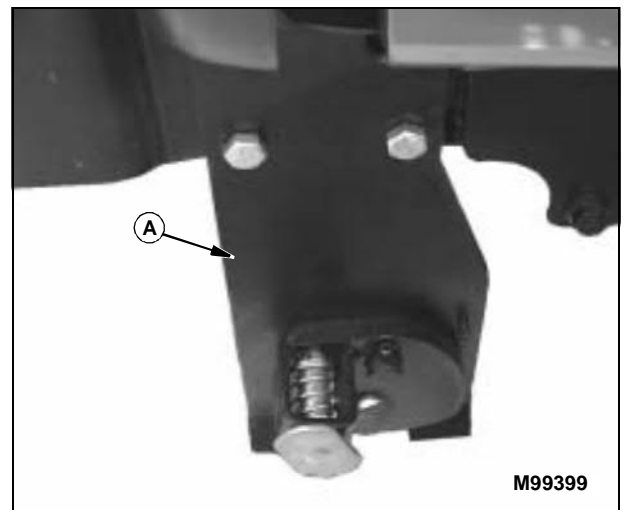
INSTALLING

Installing Blade

⚠ CAUTION: AVOID HIGH PRESSURE FLUIDS!

- Escaping fluid under pressure can penetrate the skin causing serious injury. Avoid the hazard by relieving pressure before connecting hydraulic or other lines. Tighten all connections before applying pressure.
- Search for leaks with a piece of cardboard. Protect hands and body from high pressure fluids. If an accident occurs, see a doctor immediately.
- Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result. Doctors unfamiliar with this type of injury should reference a knowledgeable medical source. Such information is available from Deere & Company Medical Department in Moline, Illinois, U.S.A. Information can be obtained only in the U.S. and Canada by calling 1-800-822-8262

1. Locate four mounting brackets (A) on sides of tractor frame.

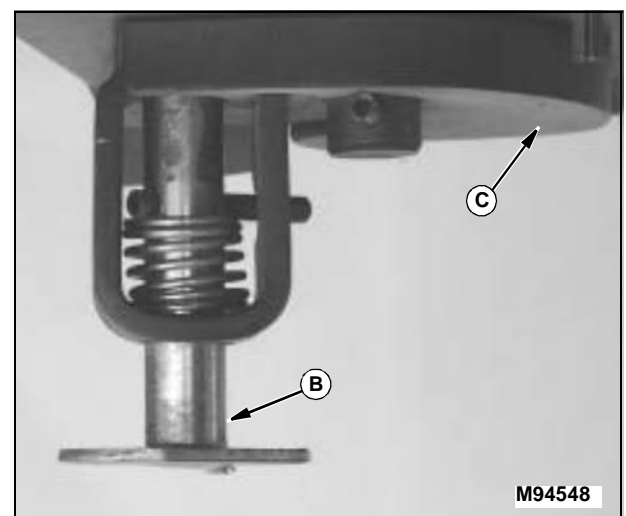


2. Pull and turn lock pin (B) to remove from frame. This allows cam plate (C) to swing up into the open position. Release lock pin. Lock pin should not seat itself into frame at this time, but should hold cam plate (C) in "open position". Repeat for three other lock pins.

3. Move SCV lever back and forth and side to side to relieve hydraulic pressure at couplers.

4. Put blade in front of tractor, on level ground, with hoses laying near center of blade.

IMPORTANT: Do not drive over hoses while positioning tractor.



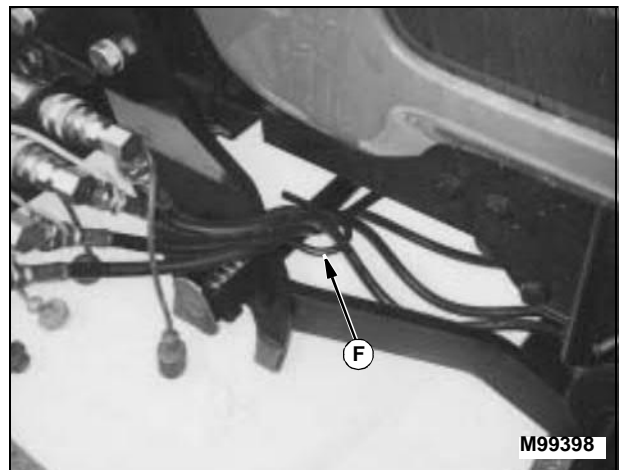
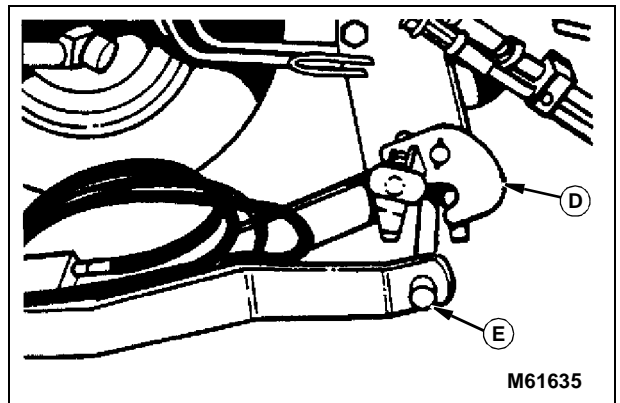
INSTALLING

5. Start tractor engine.
6. Drive forward with blade frame between front tires.
7. Check for clearance between tractor frame and blade frame.

If tractor frame does not make contact with blade frame, continue with Step 8.

If tractor frame makes contact with blade frame, lower the blade frame hydraulically.

- Slowly back tractor away from blade frame.
 - Position right side of tractor next to the left side of the blade. Stop tractor engine. Lock park brake.
 - Connect black and green hydraulic hoses from blade to tractor couplers.
 - Use SCV control lever to lower or raise front of blade assembly until proper clearance is obtained.
 - Remove hydraulic hoses from tractor and lay hoses near center of blade.
 - Position tractor behind blade frame.
 - Drive forward with blade frame between front tires. Continue with next step.
8. Drive tractor forward until front and rear cam plates (D) are over round bars (E) on blade frame.
 9. Stop engine. Set parking brake.
 10. **Model 74 blade Only**—Route hydraulic hoses through hose bracket (F).
 11. Connect color-coded hydraulic hoses to tractor couplers.



CAUTION: Avoid injury!

Keep bystanders away from tractor while installing blade.

Do not allow someone to hold blade frame while tractor is moving.

12. Start tractor engine.

INSTALLING

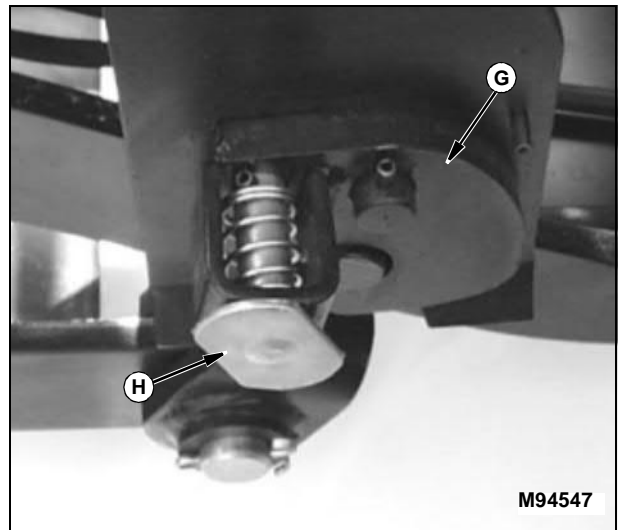
NOTE: Release parking brake to allow some tractor movement to aid in alignment and cam engagement.

13. Pull SCV control lever back to raise rear of frame until rear cams (G) rotate and lock. If rear of frame will not go high enough to reach rear cam—go to Step 16.

14. Lock pin (H) should seat itself into frame at this time.

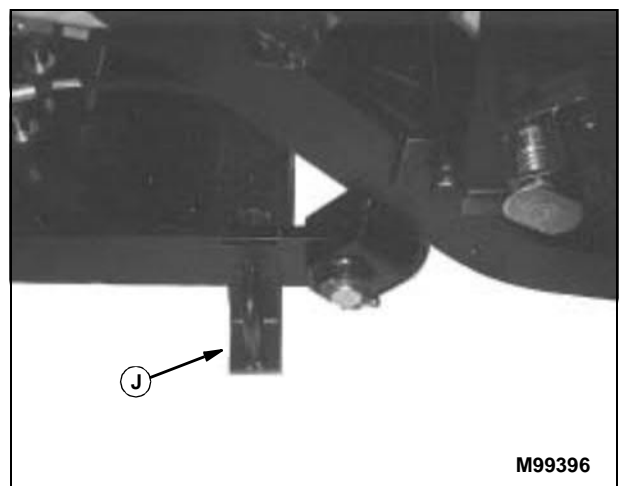
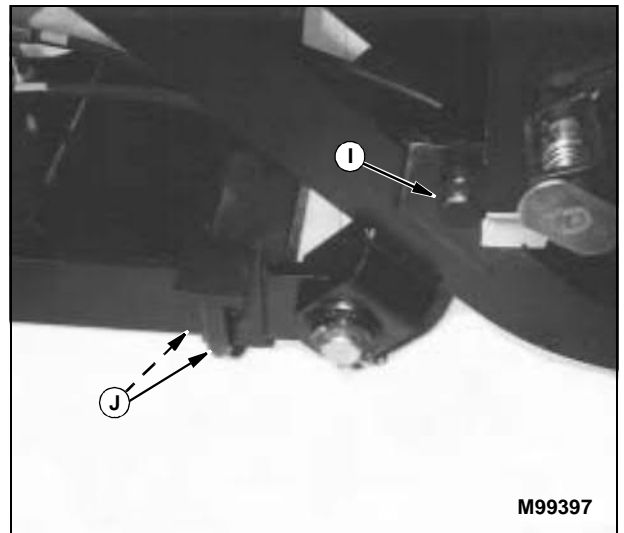
15. Push SCV control lever forward to raise front of frame until front cams rotate and lock. Lock pins should be fully seated at this time.

16. **Model 84 Only**—Certain tire combinations will prevent rear of blade frame from contacting rear cam plates. If this occurs proceed as follows:



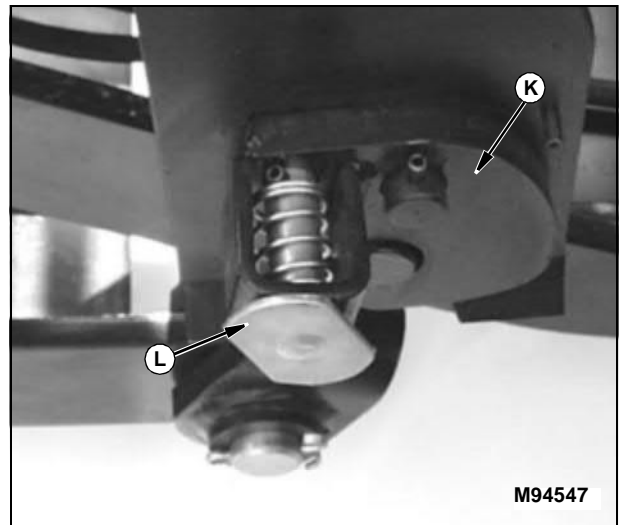
IMPORTANT: Blade frame must be clear of tractor frame before raising blade.

- Back tractor up approximately two inches. Make sure all blade frame pins (I) are in front of cam plates.
- Push SCV hydraulic control lever forward to raise blade frame and provide room to lower parking stands (J). If blade frame is making contact with tractor front frame, lower blade frame and position tractor for proper clearance before attempting to raise blade frame.
- After blade frame is raised stop engine and set parking brake.
- Pull parking stand (J) out and rotate down to lock. Repeat for other side.
- Start engine and release parking brake. Drive tractor forward and align pins with cam plates.



INSTALLING

- f. Pull SCV control lever back to raise rear of frame until rear cams (K) rotate and lock.
- g. Lock pin (L) should seat itself into frame at this time.
- h. Push SCV control lever forward to raise front of frame until front cams rotate and lock. Lock pins should be fully seated at this time.
- i. Stop engine and set parking brake.
- j. Pull parking stand (J) out and rotate up to storage position and lock. Repeat for other side.



Check SCV Lever Action

NOTE: *If blade does not respond to SCV input as follows, check that hydraulic hoses are installed correctly.*

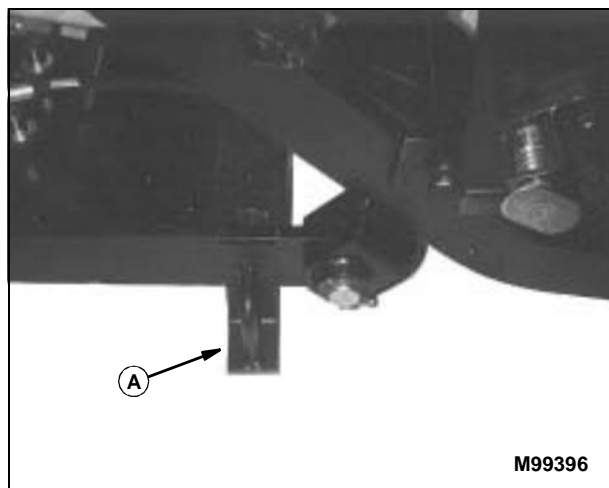
1. Start engine.
2. Check SCV lever action:
 - Blade should raise when SCV lever is pulled back.
 - Blade should lower when SCV lever is pushed forward.
 - Blade should angle left when SCV lever is pushed left.
 - Blade should angle right when SCV lever is pushed right.

REMOVING

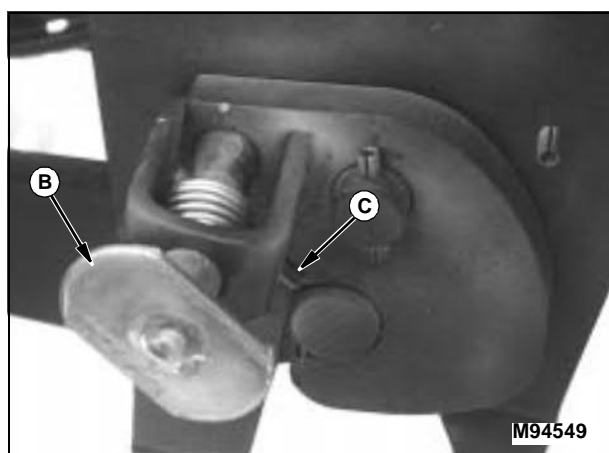
Removing Blade

NOTE: Park tractor on level surface. Do not angle blade.

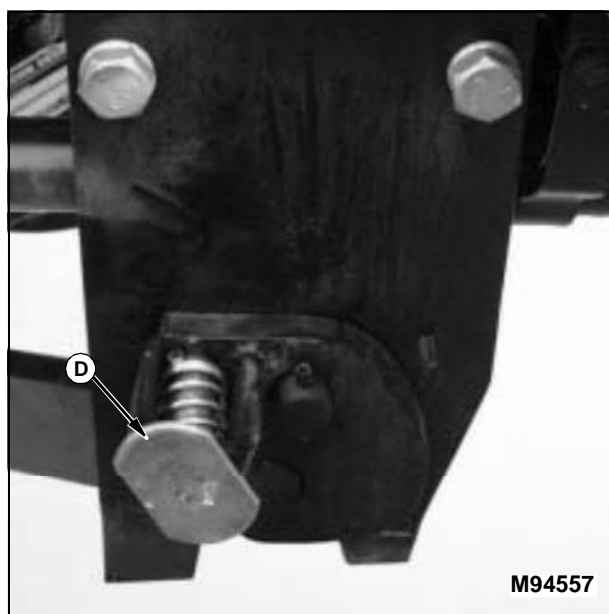
1. Lower blade to ground with slight down force to slightly lift front of tractor.
 2. Stop tractor engine. Lock park brake.
 3. Pull parking stand (A) out and rotate down to lock. Repeat for other side.
 4. Pull, turn and release front lock pin (B). Roll pin (C) should catch in groove and hold in "locked-out" position. Repeat for other front lock pin.
 5. Start tractor engine.
 6. Pull SCV hydraulic control lever back to lower front of frame to ground. Stop tractor engine.
 7. Pull, turn and release rear lock pin (D). Rear lock pin should remain in the "locked-out" position. Repeat for other rear lock pin.
 8. Start tractor engine. Push SCV hydraulic control lever forward to lower rear of frame to ground.
- NOTE:** Rear of (blade) frame must be low enough to pass underneath tractor front axle.
9. Stop tractor engine.
 10. Move SCV hydraulic control lever back and forth and side to side to relieve hydraulic pressure on hoses.



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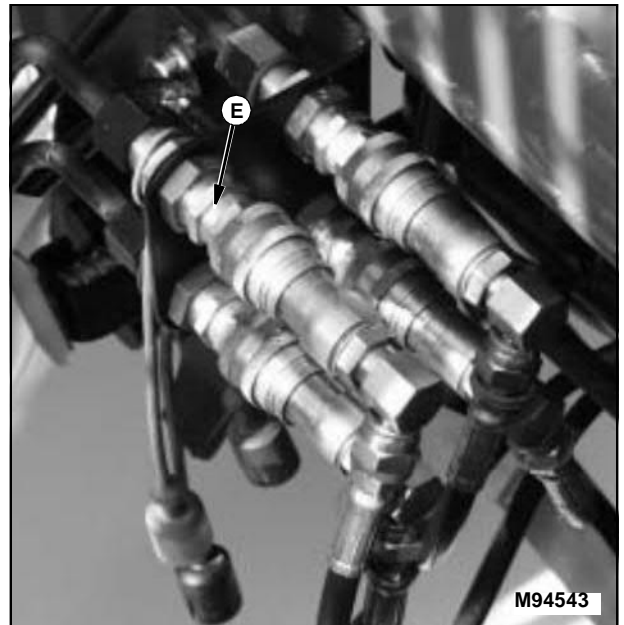
REMOVING

CAUTION: AVOID HIGH PRESSURE FLUIDS!

- Escaping fluid under pressure can penetrate the skin causing serious injury. Avoid the hazard by relieving pressure before connecting hydraulic or other lines. Tighten all connections before applying pressure.
- Search for leaks with a piece of cardboard. Protect hands and body from high pressure fluids. If an accident occurs, see a doctor immediately.
- Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result. Doctors unfamiliar with this type of injury should reference a knowledgeable medical source. Such information is available from Deere & Company Medical Department in Moline, Illinois, U.S.A. Information can be obtained only in the U.S. and Canada by calling 1-800-822-8262

11. Disconnect hydraulic hoses from tractor hydraulic outlets (E).

12. Install dust plugs and dust caps.



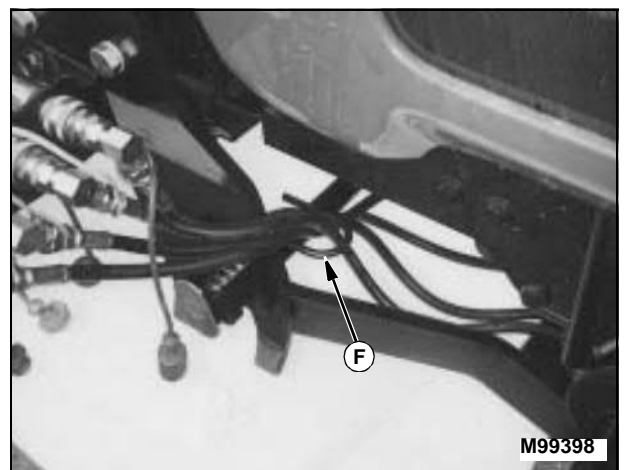
13. Remove hoses from hose bracket (F).

14. Place hoses near center of blade to prevent them from being damaged.

NOTE: Do not drive over hoses.

15. Start tractor engine. Unlock park brake.

16. Back tractor away from blade.



OPERATING

Safety Tips

- Allow only operator on tractor. Keep riders off.

Avoid tipping:

- Do not use blade near edge of ditch or bank.
- Avoid holes, rocks or roots.
- Slow down before you make turns.
- Drive up and down—not across—slopes.
- Avoid parking on slopes.
- Install chains and correct rear weights on your tractor.
- Use safe tool to pry objects from tripped blade.

Use blade safely:

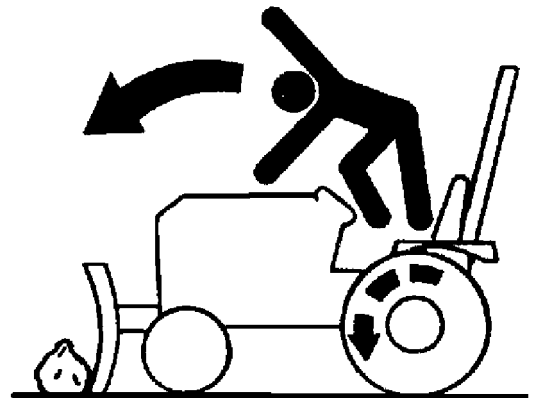
- Stop tractor before you adjust blade.
- Lower blade to ground before you work on blade.
- Do not use blade as battering ram.
- Do not run tractor at high speed.

Protect people:

- Keep people and pets out of work area.
- Do not let children ride on tractor or blade.
- Before you back, look behind for children.

Avoid Injury From Hitting Obstruction

- Always wear seat belt to avoid falling off seat when blade hits obstacles.
- Do not travel at excessive speeds when driving between jobs.
- Keep blade in unlocked position.
- Raise blade before you drive between jobs.



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OPERATING

Operating Blade

1. Start tractor engine.

NOTE: If blade moves opposite of SCV lever, hydraulic hose connections are installed incorrectly.

2. Push SCV hydraulic control lever (A) all the way forward to FLOAT position to lower blade.

- Use FLOAT position for most operating conditions.
- Do not use float position for slow-speed digging.

3. Pull lever rearward to lift blade.

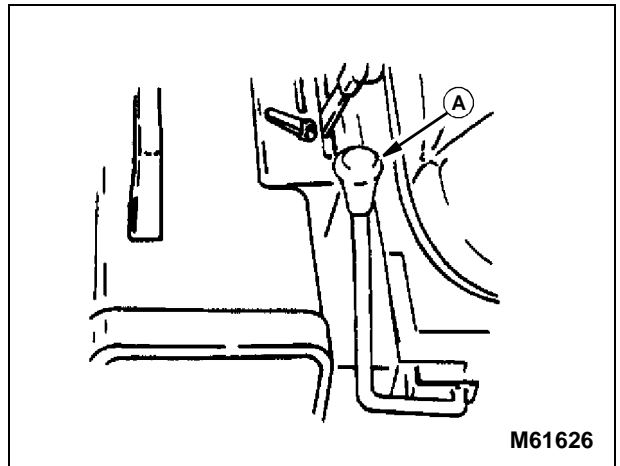
4. Move throttle lever to FAST position. Operate engine at full throttle for best engine and blade performance.

5. Put blade at an angle.

- To clear snow or light material.
- To decrease amount of power to move material.
- To prevent wheel slippage.

To Angle Blade To The Right: Move hydraulic control lever (A) to the right.

To Angle Blade To The Left: Move lever (A) to the left.



Adjusting Skid Shoes

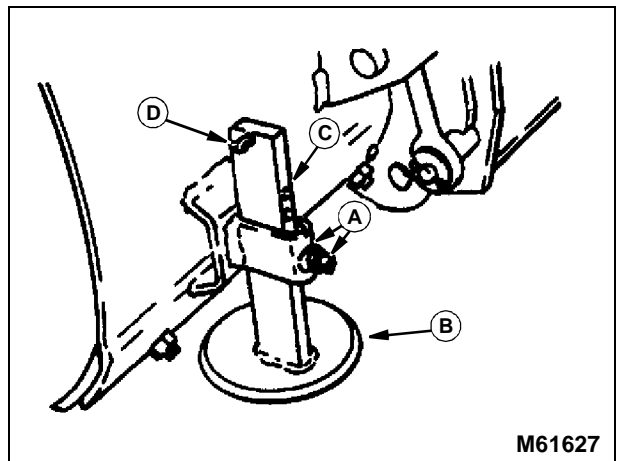
NOTE: Adjust right and left skid shoes to same height.

1. Loosen lock nut and set screw (A) to adjust skid shoe (B) on each side of blade.

2. Move skid shoe up or down to desired setting.

3. Tighten set screw into recess hole (C) on skid shoe arm. Tighten lock nut.

NOTE: If desired cutting depth is not obtained using holes on one side of post, reverse shoe by removing cotter pin (D) and loosening lock nut and set screw (A).





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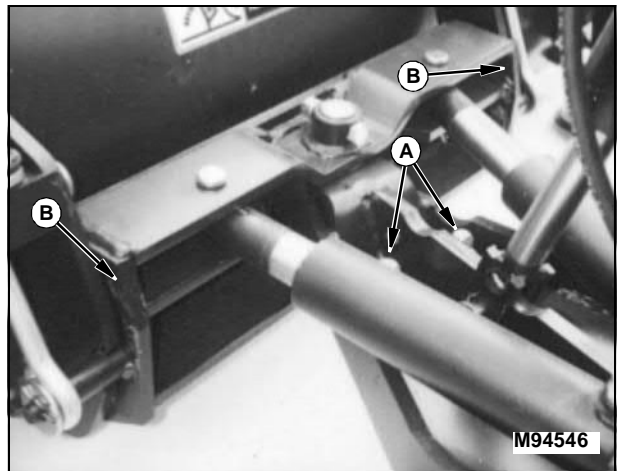
Thank you so much for reading

OPERATING

Using Blade Lock Bolts

CAUTION: Hitting an obstruction with blade in locked position may injure operator and damage blade.

1. For normal operation and transport, be sure blade is unlocked. Keep lock bolts (A) in storage position holes shown.
2. Special operation: Remove lock bolts from storage position and install in blade frame hole (B) on each side of blade.



Releasing Blade From Tripped Position

CAUTION: Avoid injury: Do not keep blade in TRIPPED position.

Do not put hands between blade and mounting bracket to remove objects: use a safe tool.

Keep hands, feet and clothing away from a tripped blade or a blade that is being pivoted.

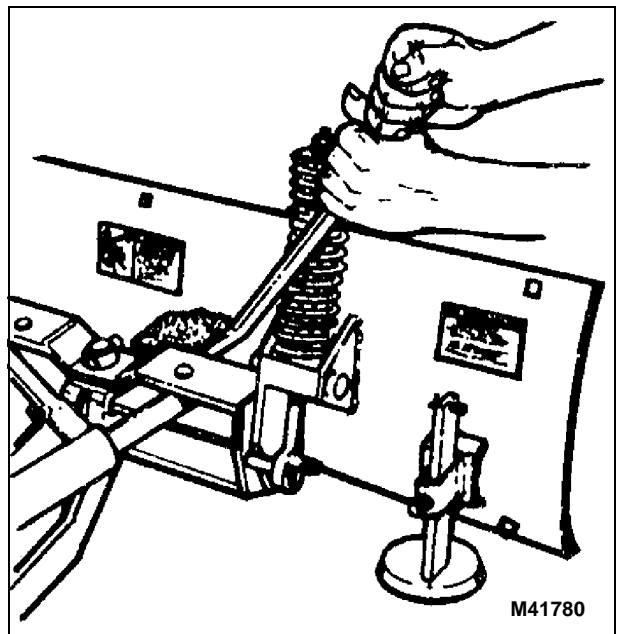
Blade may cause injury when it snaps back to NORMAL position after being tripped. Stand where blade cannot hit you.

Blade is designed to trip if an obstruction or solid object is hit during blade operation. If this happens, blade should automatically return to the OPERATING position.

If an object becomes wedged between blade and mounting bracket, the blade will remain in the TRIPPED position. Use extreme caution to remove the object.

CAUTION: DO NOT put hand between blade and mounting bracket when removing the object.

1. Stop engine.
2. Lower blade
3. Engage the park brake.
4. Remove the key.
5. Keep clear of blade.



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