

**Rotary Broom
for 4200, 4300 and 4400 Compact
Utility Tractors
Model 26** Serial No. (010001 -)



OPERATOR'S MANUAL

**John Deere
Worldwide Commercial And
Consumer Equipment Division
OMM137552 K8**

North American
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.

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.

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:

SERIAL NUMBER (A):

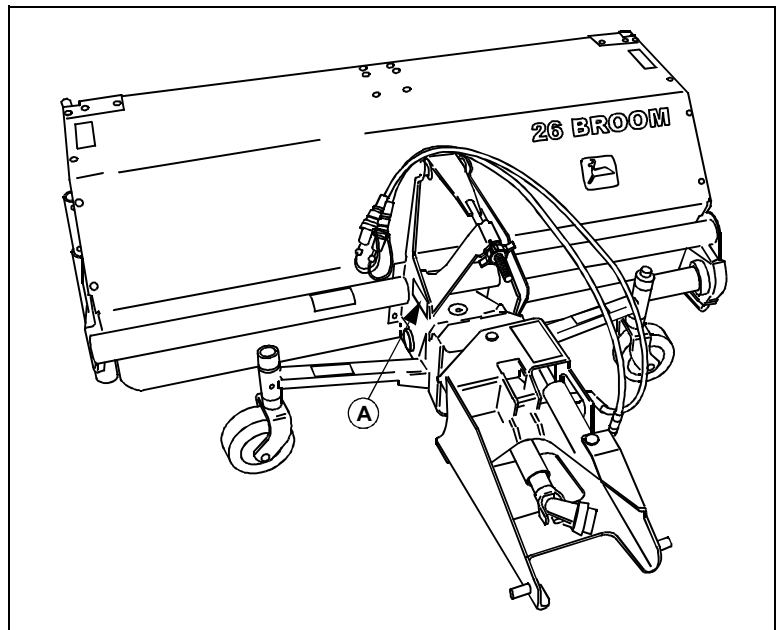
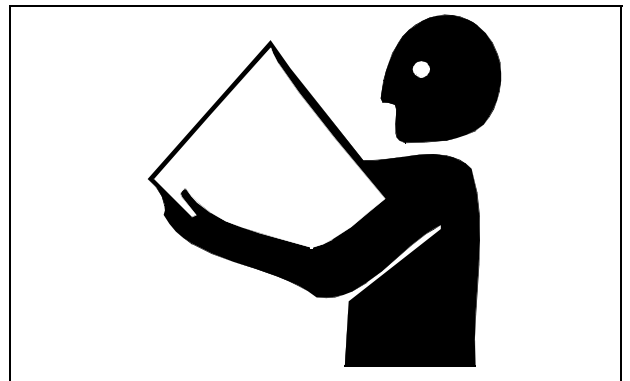


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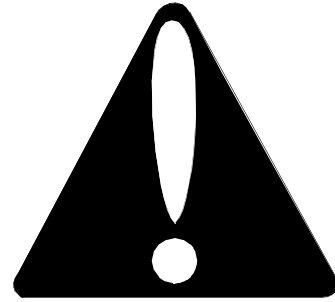
SAFETY SIGNS

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.

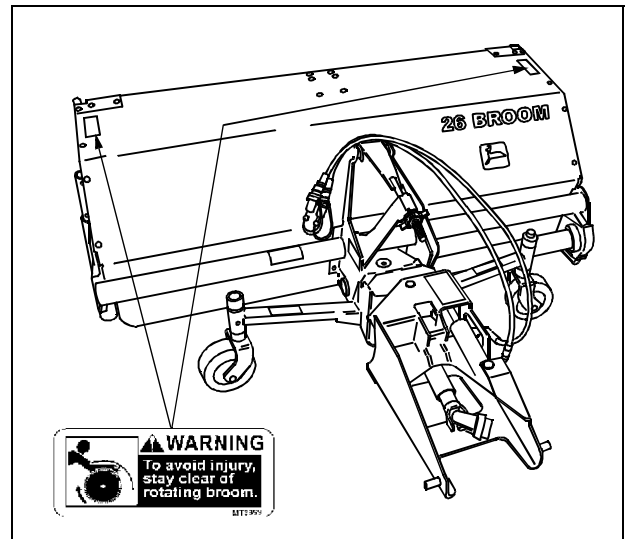
Keep safety signs in good condition. You can buy safety signs from your John Deere dealer.



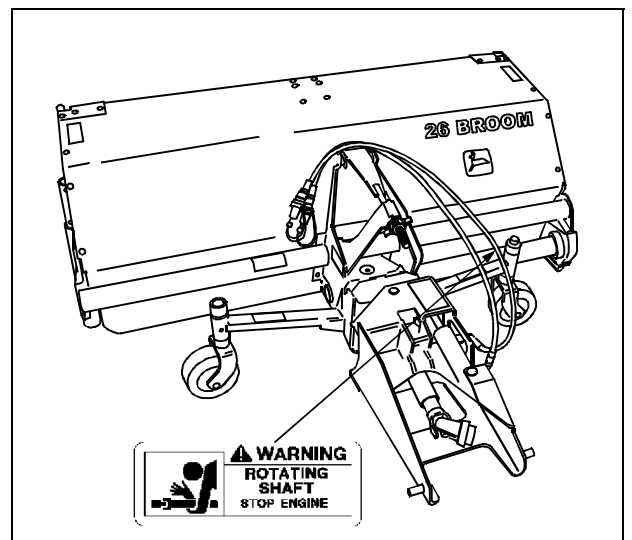
Machine Safety Labels

WARNING:

To avoid injury, stay clear of rotating broom.



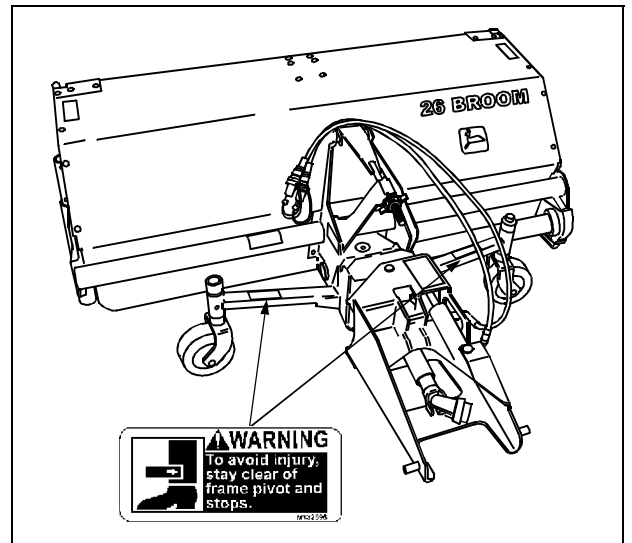
WARNING: Rotating Shaft—Stop Engine



SAFETY SIGNS

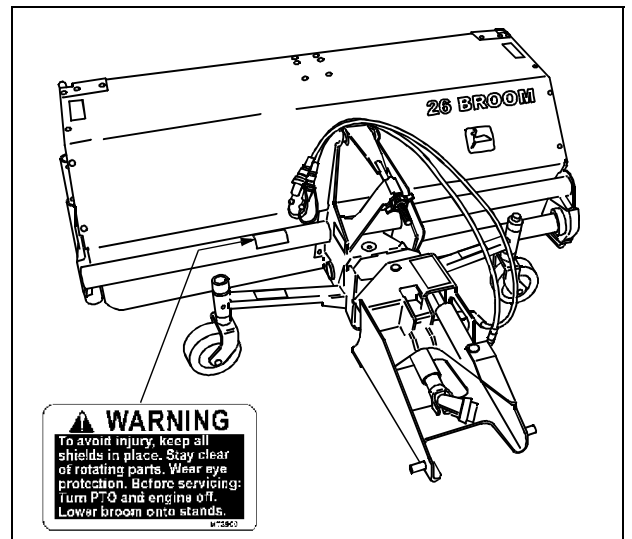
WARNING:

To avoid injury, stay clear of frame pivot and stops.



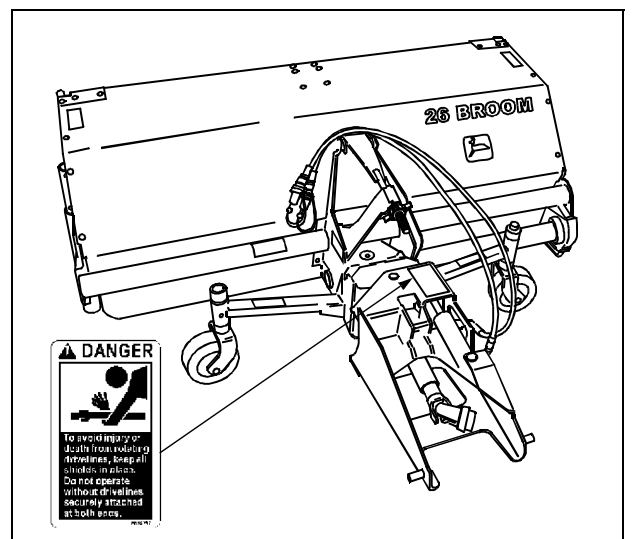
WARNING:

To avoid injury, keep all shields in place. Stay clear of rotating parts. Wear eye protection. Before servicing: Turn PTO and engine off. Lower broom onto stands.



DANGER:

To avoid injury or death from rotating drivelines, keep all shields in place. Do not operate without drivelines securely attached at both ends.

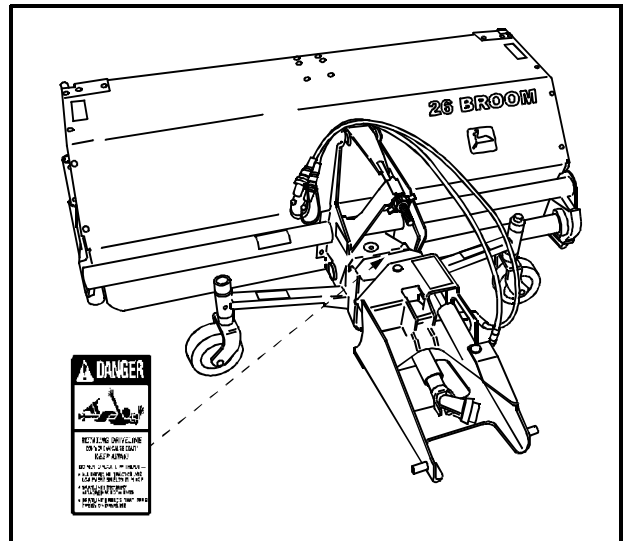


SAFETY SIGNS

DANGER: ROTATING DRIVELINE – CONTACT CAN CAUSE DEATH – KEEP AWAY! – DO NOT OPERATE WITHOUT:

Picture Note: Label attached to front driveshaft safety shield.

- All driveline, tractor and equipment shields in place
- Drivelines securely attached at both ends
- Driveline shields that turn freely on driveline



PREPARING VEHICLE

Preparing the Tractor

NOTE: Refer to the tractor operator's manual for additional ballasting and tire pressure information.

Tractor Requirements

Tractor must be equipped with the following options to complete installation of the broom:

- Hydraulic selective control valve.
- Mid-PTO.
- Mid-PTO driveshaft.
- Front hitch kit including the lift cylinder.

NOTE: The Model 26 Rotary Broom is not recommended for use on John Deere 4100, 4500 and 4600 series tractors.

The broom model listed below can be mounted on John Deere (or similar) model series tractors:

Broom Model	Tractor Model Series		
	4200	4300	4400
26	X	X	X

PREPARING VEHICLE

Tractor Ballasting Requirements



CAUTION: Help prevent personal injury. Proper ballasting is required for safe operation of the broom and the tractor. Install the correct number weights to help maintain tractor steering control and stability.

NOTE: See your tractor operator's manual or your John Deere dealer for more information on rear ballast.

Broom Model	Tractor Model Series			Number of Weights Required with Rear Ballast Box
	4200	4300	4400	
26	X			8
26		X		7
26			X	8

NOTE: Each standard John Deere suitcase weight weighs 32 kg, (70 lb.).

PREPARING VEHICLE

Check Tractor Tire Pressure

- ⚠ CAUTION:** Explosive separation of a tire and rim parts can cause serious injury or death:
- **DO NOT** attempt to mount a tire without the proper equipment and experience to perform the job.
 - Always maintain the correct tire pressure. **DO NOT** inflate the tires above the recommended pressure. Never weld or heat a wheel and tire assembly. The heat can cause an increase in air pressure resulting in a tire explosion. Welding can structurally weaken or deform the wheel.
 - When inflating tires, use a clip-on chuck and extension hose long enough to allow you to stand to one side and **NOT** in front of or over the tire assembly.
 - Check tires for low pressure, cuts, bubbles, damaged rims or missing lug bolts and nuts.



1. Check tractor tires for damage.
2. Check tractor tire pressure with an accurate gauge.
3. Refer to **Service-Miscellaneous** section in the tractor operator's manual for proper tire pressure information.

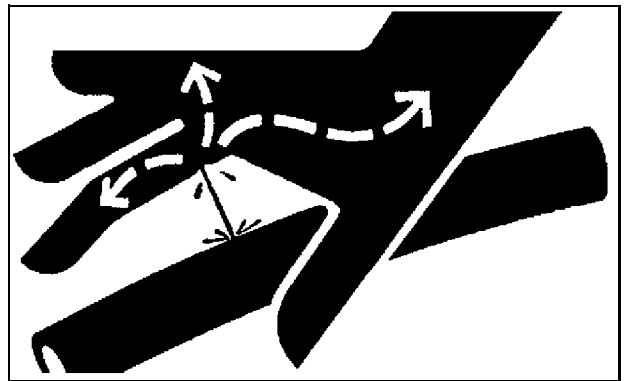
INSTALLING

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.

Avoid High Pressure Fluids

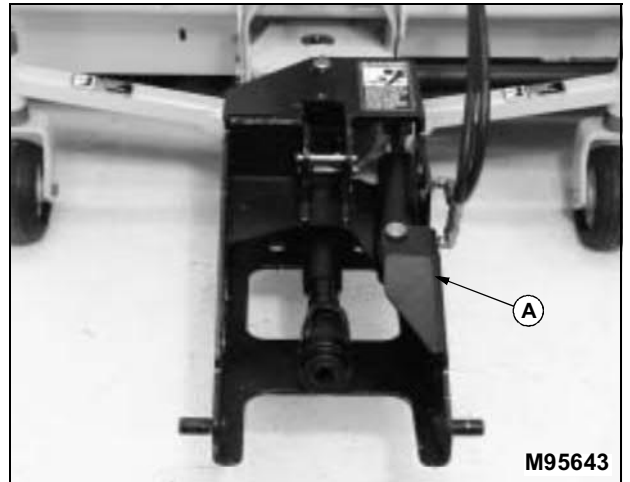
- Hydraulic hoses and lines can fail due to physical damage, kinks, age, and exposure. Check hoses and lines regularly. Replace damaged hoses and lines.
- Hydraulic fluid connections can loosen due to physical damage and vibration. Check connections regularly. Tighten loose connections.
- Escaping fluid under pressure can penetrate the skin causing serious injury. Avoid the hazard by relieving pressure before disconnecting 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 may be obtained in the United States and Canada only by calling 1-800-822-8262.



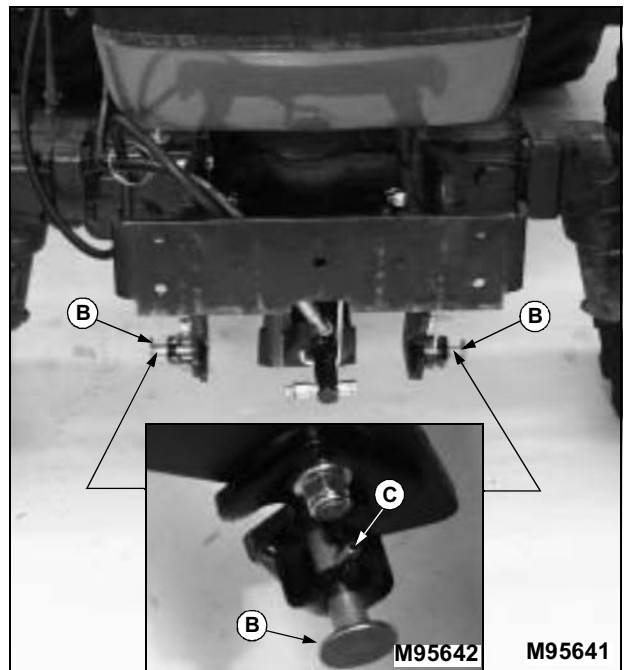
INSTALLING

Install Broom

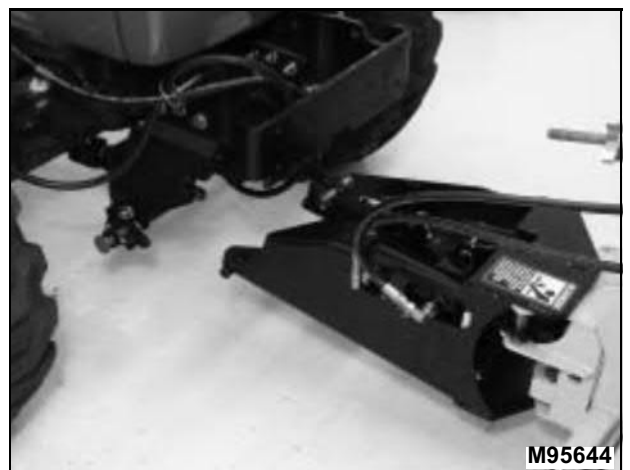
1. Park tractor on a hard, level surface.
2. Stop tractor engine and engage park brake.
3. Rotate direct mount frame (A) so it is aligned squarely with the tractor front hitch.



4. Check position of tractor front hitch quick pull pins (B).
 - Quick lock pins on each side of front hitch must be pulled and rotated with each assembly roll pin (C) locking the quick lock pin in a retracted position.
 - Make sure the front hitch lift cylinder is positioned inside the wire support hanger.



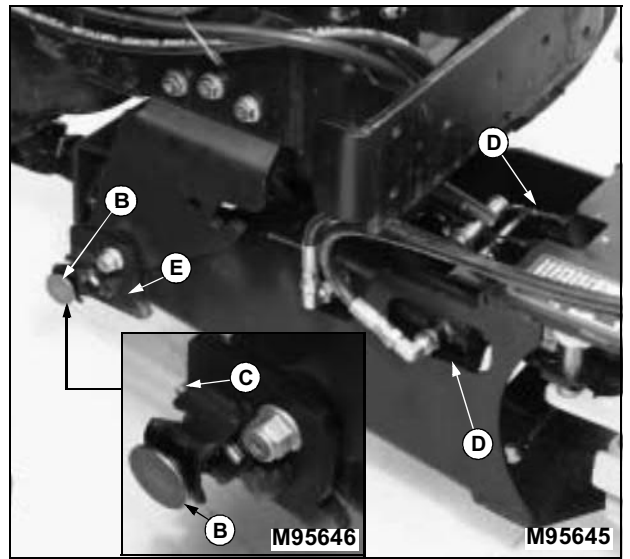
5. Start tractor engine.
6. Slowly drive tractor forward until broom direct mount frame is positioned in front of tractor front hitch.
7. Stop tractor engine and engage park brake.



INSTALLING

8. Install broom onto tractor front hitch.

- Grasp handle locations (D) on each side of broom direct mount frame.
- Raise broom direct mount frame slightly. Slide frame into tractor front hitch receiving slots (E).
- Pull and rotate each quick pull pin (B) to disengage assembly roll pin (C) from the retracted position.
- Push front of broom on each side until quick lock pins snap and lock broom in position on front hitch.



9. Remove lift cylinder (F) from wire support hanger (G).

- Rotate wire support hanger away from lift cylinder.

10. Align lift cylinder and direct mount frame slot (H).



CAUTION: Help prevent serious personal injury. Before starting tractor, make sure bystanders are not standing in front of the tractor.

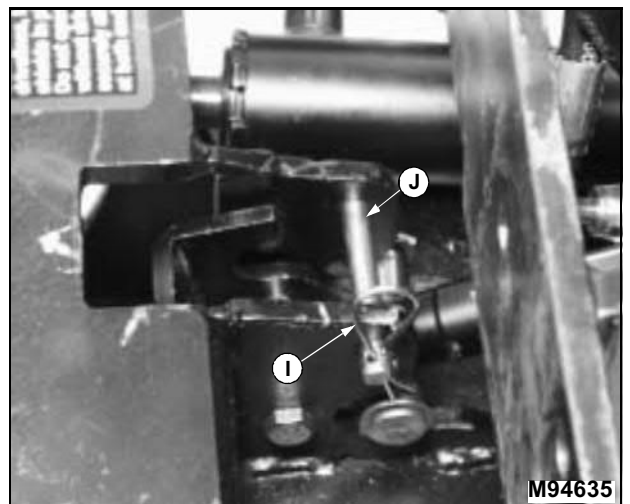
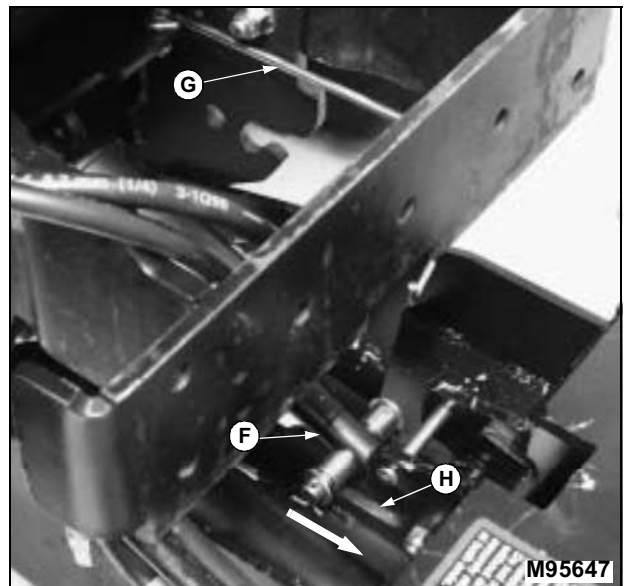
11. Start tractor engine.

12. Slowly move tractor SCV control lever forward to the FLOAT position.

- Lift cylinder will extend forward into position within the direct mount frame slot (H).

13. Stop tractor engine.

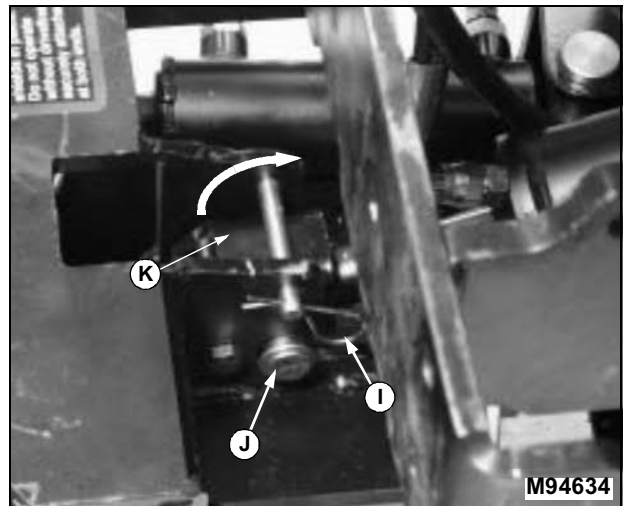
14. Remove spring locking pin (I) and drilled head pin (J) from stored position in broom direct mount frame.



INSTALLING

15. Lower lift cylinder latch (K) onto the lift cylinder.

- Install drilled head pin (J) and spring locking pin (I) to secure lift cylinder latch and lift cylinder in position.



16. Cycle tractor SCV control lever back and forth and side-to-side to relieve hydraulic line pressure.

17. Route each broom hydraulic hose individually through hose guide (L) and hose retaining rings (M) mounted to the tractor frame.



INSTALLING

18. Remove color coded caps from broom male quick coupler ends and corresponding tractor female quick coupler outlets.

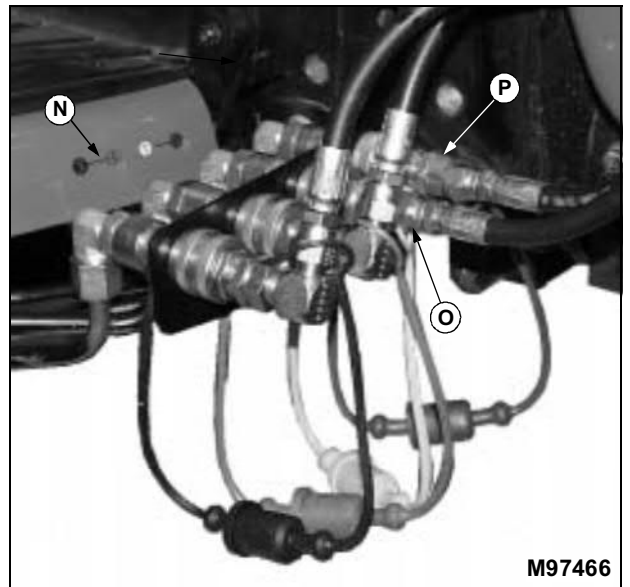
NOTE: If necessary, refer to hydraulic outlet color coding and numbering sequence label (N) attached to the tractor directly behind the SCV outlets.

19. Connect hydraulic hose (O) quick coupler.

- Hydraulic hose (O) is color coded YELLOW and is designated hydraulic outlet number 1.

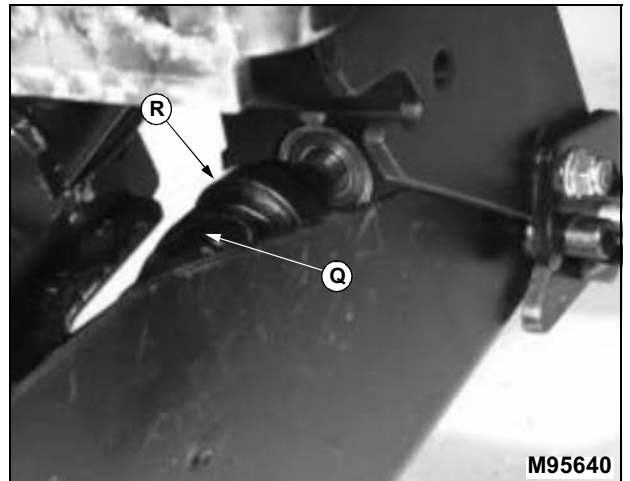
20. Connect hydraulic hose (P) quick coupler.

- Hydraulic hose (P) is color coded RED and is designated hydraulic outlet number 2.



21. Connect front driveshaft (Q) to tractor.

- Pull back coupler (R).
- Push broom driveshaft onto front hitch PTO stubshaft until coupler snaps into a locked position.
- Slide driveshaft back and forth to make sure driveshaft is locked in position.



22. Start tractor engine.

23. Raise broom.

- Pull tractor SCV control lever rearward to the LIFT position to raise the broom.

24. Raise storage stands (S) at both ends of brush head.

25. Test SCV lever action to make sure hydraulic hose connections are installed correctly.



REMOVING

Park Vehicle Safely

- Stop tractor on a level surface, not on a slope.
- Disengage PTO.
- Lower broom parking stands.
- Lower broom to ground.
- STOP tractor engine.
- Engage the park brake.
- Remove the key.
- Before leaving the operator's seat, wait for engine and all moving parts to STOP.

Avoid High Pressure Fluids

- Hydraulic hoses and lines can fail due to physical damage, kinks, age, and exposure. Check hoses and lines regularly. Replace damaged hoses and lines.
- Hydraulic fluid connections can loosen due to physical damage and vibration. Check connections regularly. Tighten loose connections.
- Escaping fluid under pressure can penetrate the skin causing serious injury. Avoid the hazard by relieving pressure before disconnecting 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 may be obtained in the United States and Canada only by calling 1-800-822-8262.



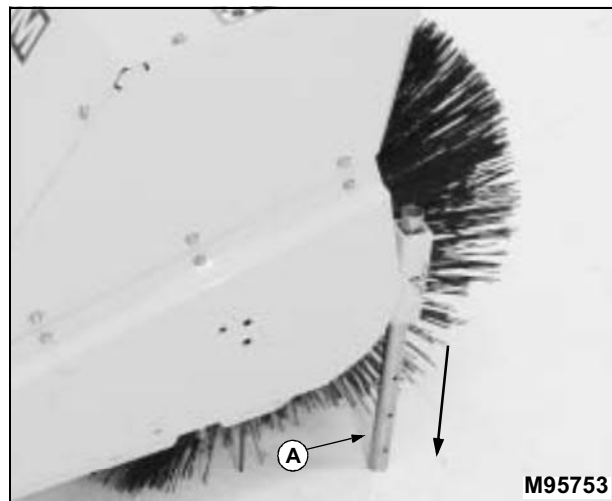
REMOVING

Removing Broom

1. Park tractor on a hard, level surface.
2. Stop tractor engine and engage park brake.

IMPORTANT: To avoid possible damage to brush bristles, parking stands must be in the lowered position before lowering broom to the ground.

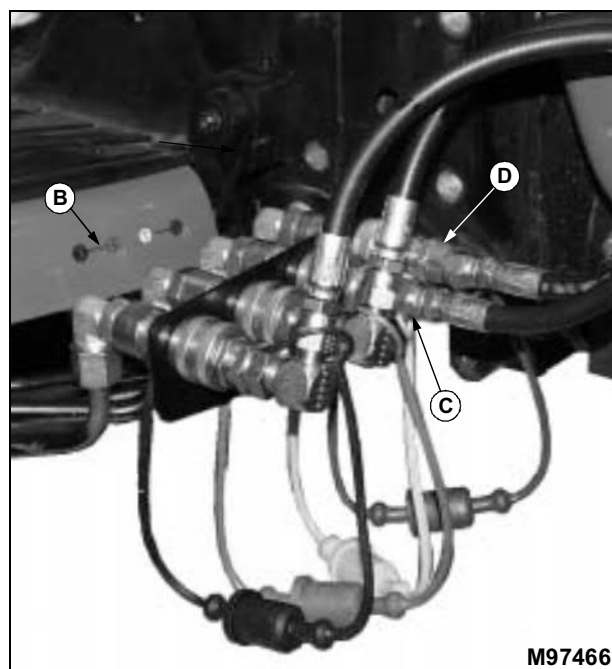
3. Lower parking stand (A) at both ends of brush head.
4. Lower brush head. (See **Raising and Lowering Broom** in the **Operating** section.)
 - SLOWLY move tractor SCV control lever forward to the FLOAT position.
 - Allow broom to rest on assembly caster wheels and parking stands.



5. Cycle tractor SCV control lever back and forth and side-to-side to relieve hydraulic line pressure.

NOTE: If necessary, Refer to hydraulic outlet color coding and numbering sequence label (B) attached to the tractor directly behind the SCV outlets.

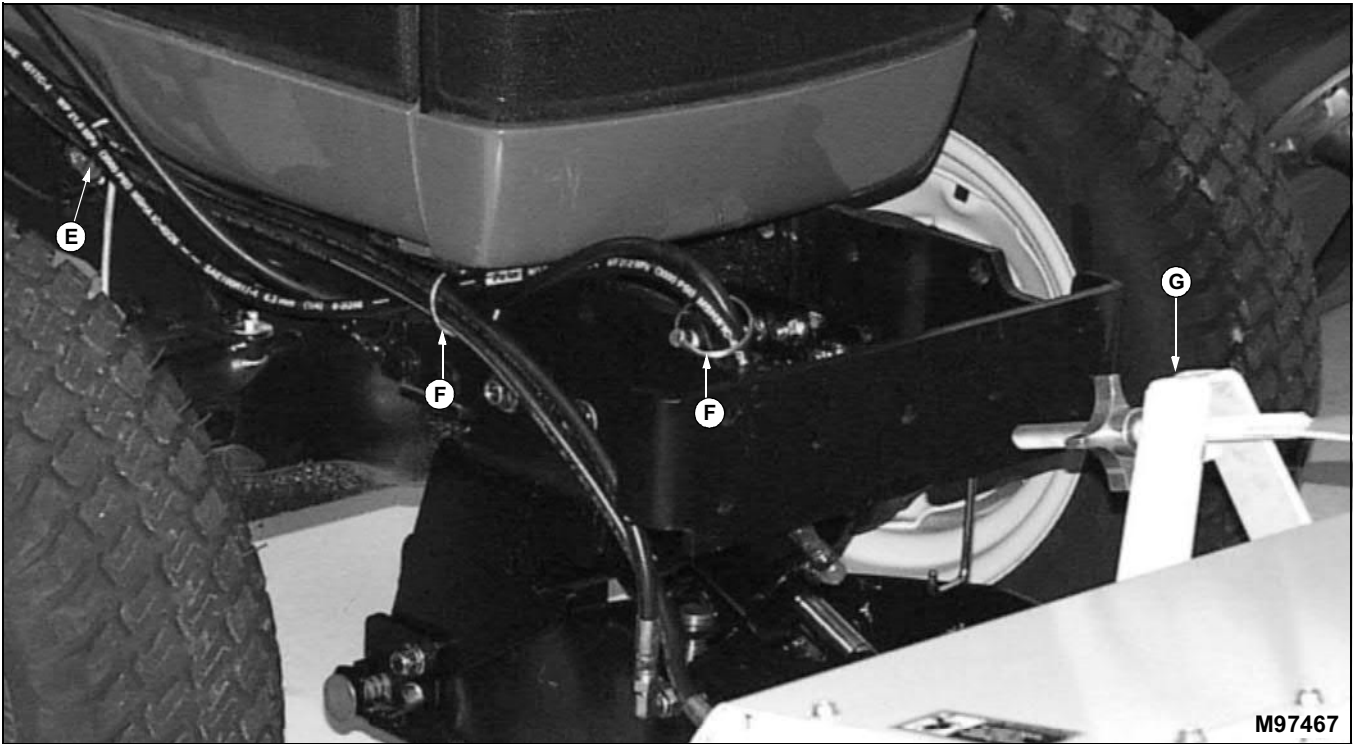
6. Disconnect hydraulic hose (C) quick coupler.
 - Hydraulic hose (C) is color coded YELLOW and is designated hydraulic outlet number 1.
7. Disconnect hydraulic hose (D) quick coupler.
 - Hydraulic hose (D) is color coded RED and is designated hydraulic outlet number 2.
8. Install corresponding color coded caps to tractor female quick coupler outlets and broom male quick coupler ends as shown.



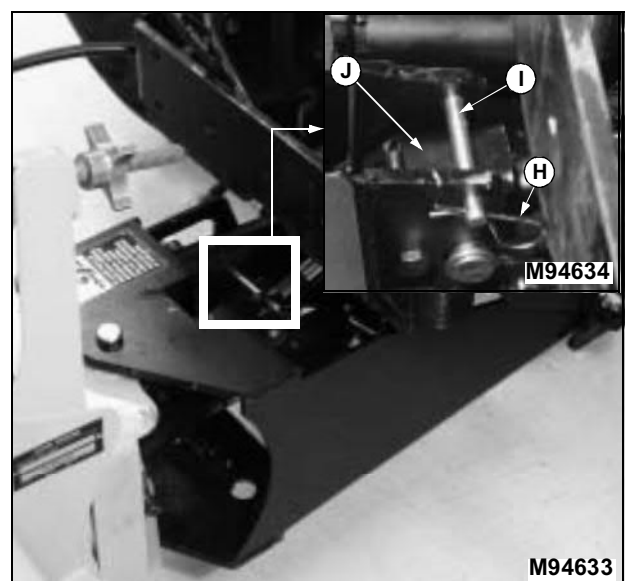
REMOVING

9. Route each broom hydraulic hose individually through hose guide (E) and hose retaining rings (F) mounted to the tractor frame.

- Store disconnected hydraulic hoses in position on top of the brush contact adjustment bracket (G).



10. Remove spring locking pin (H) and drilled head pin (I) securing lift cylinder latch (J) in position.



REMOVING

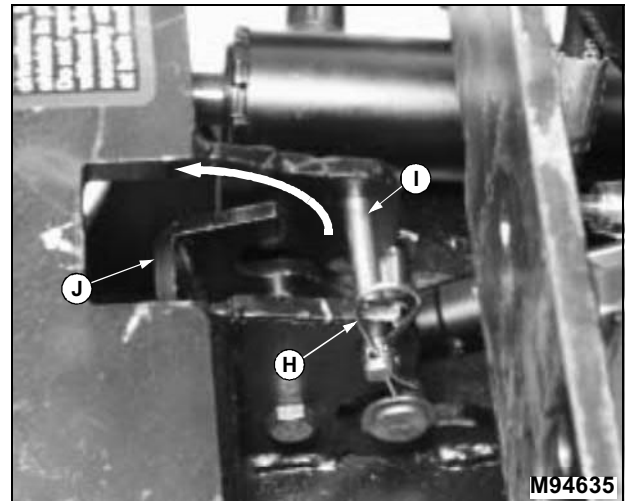
11. Raise lift cylinder latch (J).

- Replace drilled head pin (I) and spring locking pin (H) in original position for storage.



CAUTION: Help prevent serious personal injury. Before starting tractor, make sure bystanders are not standing in front of the tractor.

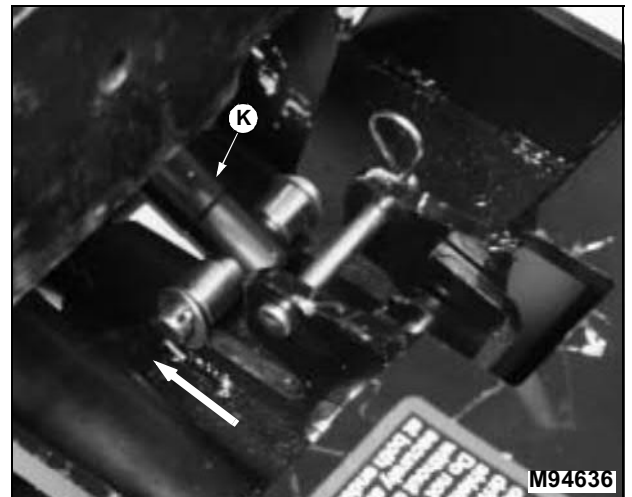
12. Start tractor engine.



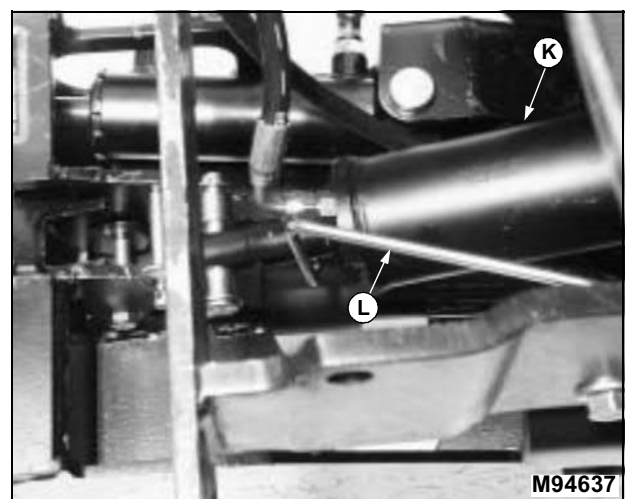
13. Retract broom lift cylinder (K).

- SLOWLY move tractor SCV control lever rearward to the LIFT position.
- Retract lift cylinder enough to clear position within direct mount frame slot.

14. Stop tractor engine.



15. Slide wire support hanger (L) under lift cylinder (K) to maintain lift cylinder in a raised position.





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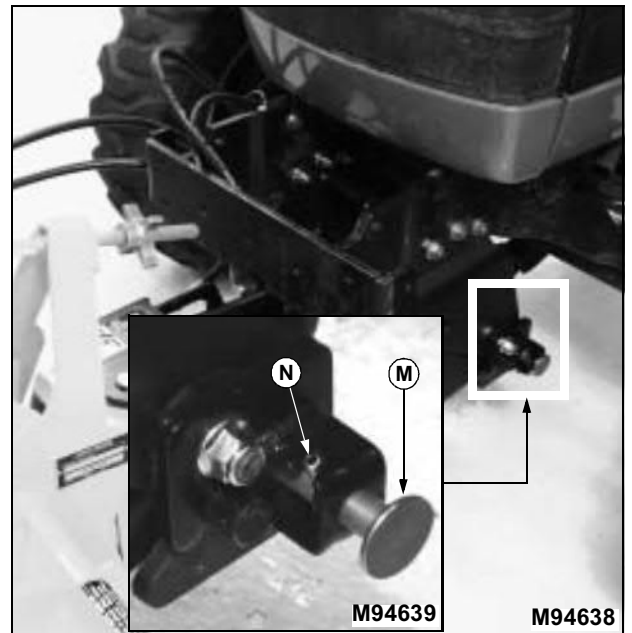
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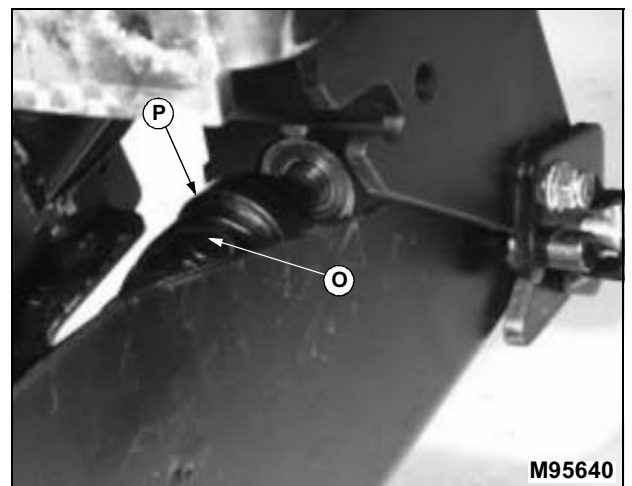
16. Disengage front hitch quick pull pins (M).

- Pull and rotate quick pull pins on each side of front hitch until assembly roll pin (N) locks quick lock pin in a retracted position.



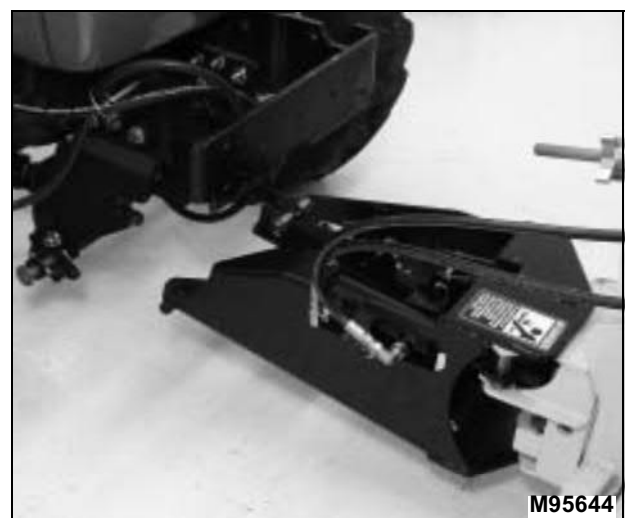
17. Disconnect front driveshaft (O) from tractor.

- Pull back coupler (P).
- Pull broom driveshaft off of front PTO stubshaft.



18. Start tractor engine and disengage park brake.

19. Slowly back tractor away from the broom.



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