

3-Cubic Foot Tractor Trunk



JOHN DEERE

OPERATORS MANUAL

3-Cubic Foot
Tractor Trunk

OMM137364 A9 English

John Deere
Worldwide Commercial and
Consumer Equipment Division

OMM137364 A9

North American Version

LITHO IN U.S.A.
ENGLISH



INTRODUCTION

THANK YOU for purchasing a John Deere product.

The 3-Cubic Foot Tractor Trunk may be used with the following lawn and garden tractors: Models 316 (Serial No. 285001 and above), 318, 322, 330, 332, 420, 425, 430, 445, and 455.



Models 316, 318, 322, 330, 332, 420, and 430 require a special mounting kit in addition to the basic Tractor Trunk kit.

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 being pointed at is hidden from view.

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.

Date of Purchase:

Dealer Name:

Phone:



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NOTES

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.



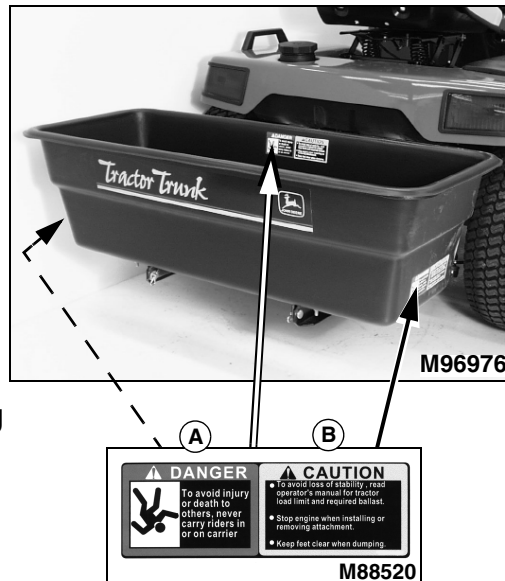
Machine Safety Labels

DANGER (A)

To avoid injury or death to others, never carry riders in or on carrier.

CAUTION (B)

- To avoid loss of stability, read operator's manual for tractor load limit and required ballast.
- Stop engine when installing or removing attachment.
- Keep feet clear when dumping.



PREPARING THE VEHICLE

Tractor Requirements

INSTALL FRONT BALLAST

All tractors require ONE of the following be installed when using the Tractor Trunk:

- Mid-Mount Mower OR
- Front Attachment OR
- Four Front Suitcase Weights.

Ballast weights can be purchased from your John Deere dealer.

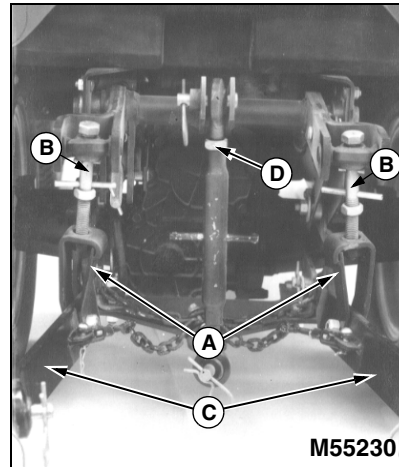
REMOVE REAR WHEEL WEIGHTS

If your tractor is equipped with rear wheel weights, they must be removed. Never use rear wheel weights in conjunction with the Tractor Trunk. The additional load of rear wheel weights can limit wheel slippage and result in transmission failure.

REMOVE REAR ATTACHMENT

Remove any rear implement or tow-behind attachment from rear frame or hitch plate. Three point hitches may remain on tractor if the following steps are performed:

- Fully raise hitch.
- Remove yokes (A) from bolts (B). Bolts can remain.
- Remove lower links (C).
- Remove center link (D).



CHECK TIRE PRESSURE

Make sure tractor tire pressure is correct. (See your tractor operator's manual for the correct air pressure.)

CHECK PARTS

Make sure you have all parts required for your tractor model as identified in the ASSEMBLY section. Models 316 (Serial No. 285001 and above), 318, 322, 330, 332, 420, and 430 require Mounting Kit BM19840 in addition to the basic Tractor Trunk kit. The mounting kit is available from your John Deere Dealer.

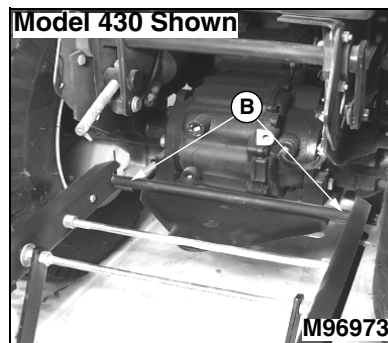
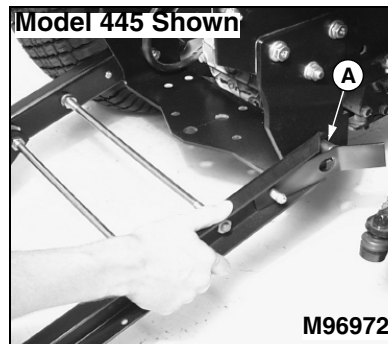
INSTALLING

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.

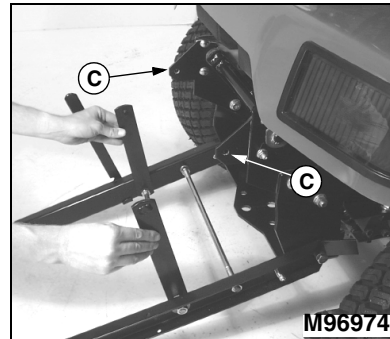
Install Support Frame on Tractor

1. Lock the support frame latches over mounting studs (A) or support shaft ends (B) at both sides of rear frame. Make sure both sides are securely latched.

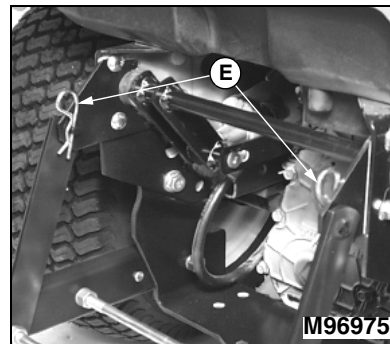


INSTALLING

2. Swing support links up and raise frame. Insert link pins into holes (C).



3. Secure the support links with large spring locking pins (E).



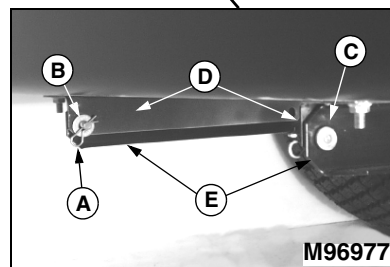
Install Tractor Trunk

1. Remove spring locking pin (A), 10.5 x 18 x 1.6 mm washer (B), and drilled pin (C) from both sides of support frame.

2. Set tractor trunk onto support frame so box supports (D) are to the inside of support channels (E).

3. Install drilled pin (C), washer (B), and spring locking pin (A) at both sides.

4. Level the support frame if necessary. (See Leveling the Support Frame in the OPERATING section.)



REMOVING

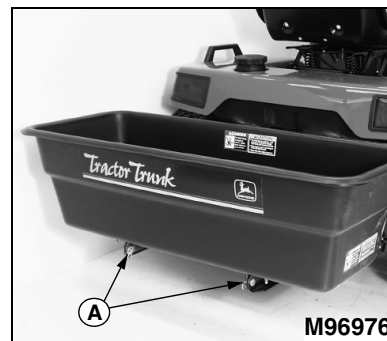
Park Vehicle Safely

- 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.

Remove Tractor Trunk

NOTE: To prevent loss of mounting pins when removing Tractor Trunk, secure pins through holes in support frame. If desired, tractor trunk can remain installed on support frame during removal of the complete attachment.

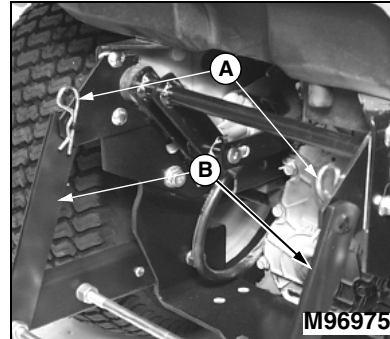
1. Empty the tractor trunk.
2. Remove two small spring locking pins, washers, and drilled pins (A).
3. Slide tractor trunk off support frame.



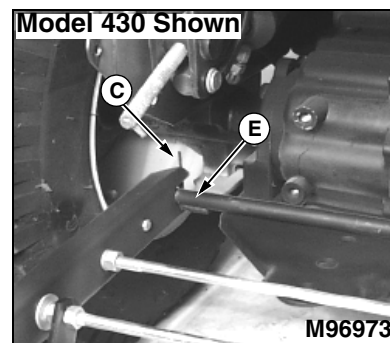
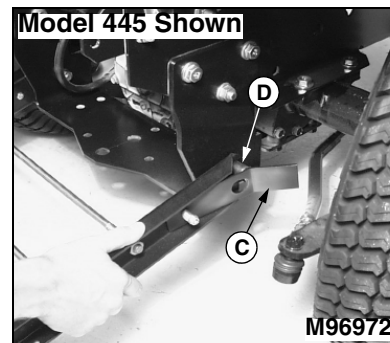
REMOVING

Remove Support Frame

1. Remove large spring locking pins (A).
2. Swing support links (B) rearward and lower support frame.



3. Open latch (C) and slide support channel off mounting stud (D) or support shaft end (E). Repeat at opposite side.



OPERATING



CAUTION: AVOID INJURY OR DEATH!

To avoid injury or death to others:

- Never carry riders in or on carrier.
- Keep feet clear when dumping.
- Follow the load limitations and use proper ballast to maintain stability.

Operate Machine Safely

- Check vehicle brake action before you operate. Adjust or service brakes as necessary.
- Inspect machine before you operate. 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 might be thrown. 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 ride on machine or in or on any part of the attachment.
- 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.
- Use correct load limitations and required ballast.
- Keep yourself and others clear of the box when dumping.
- STOP engine and LOCK park brake when installing or removing attachment and when dumping the trunk box.



OPERATING

Using Proper Ballast



CAUTION: To avoid loss of stability, use correct load limitations and ballast.

Make sure your tractor is equipped with the required ballast before installing the Tractor Trunk. Leave the ballast installed whenever Tractor Trunk is being used. (See Tractor Requirements in the PREPARING THE VEHICLE section.)

Using Tractor Trunk to Improve Rear Traction

IMPORTANT: AVOID EQUIPMENT DAMAGE!

Excessive rear ballast limits wheel slippage and can result in transmission failure. To avoid transmission damage:

- **DO NOT** exceed 136 kg (300 lb) of material or ballast in Tractor Trunk box.
- **DO NOT** use REAR WHEEL WEIGHTS in conjunction with the Tractor Trunk.

Your Tractor Trunk is ideal for carrying rear ballast to improve traction when blading or blowing snow. However, some tractor wheel slippage is essential for proper transmission operation.

Use only the amount of ballast necessary to provide suitable traction for the activity, and NEVER load more than 136 kg (300 lb) of ballast in the Tractor Trunk box. Overloading your Tractor Trunk prevents adequate wheel slippage and can result in serious transmission damage.

Make sure your tractor is equipped with a mid-mount mower deck, front attachment, or the required front ballast weights. (See Tractor Requirements in the PREPARING THE VEHICLE section.)

OPERATING

Using Tractor Trunk Dump Latch Lever



CAUTION: AVOID INJURY OR DEATH!

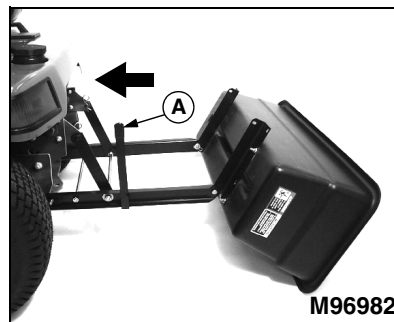
To avoid injury or death to others:

- Never carry riders in or on carrier.
- Keep feet clear when dumping.
- Follow the load limitations and use proper ballast to maintain stability.

IMPORTANT: AVOID EQUIPMENT DAMAGE:

After dumping load from Tractor Trunk box, **NEVER** attempt to push or level the load with box in the dumped position.

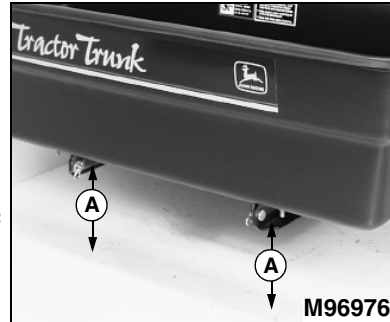
1. STOP engine and LOCK park brake at desired dumping site.
2. Stand beside the Tractor Trunk box, not to the front of it. Keep feet clear of box.
3. Push and hold dump latch lever (A) toward rear of tractor to release Tractor Trunk box.
4. Push box away from tractor to dump load.



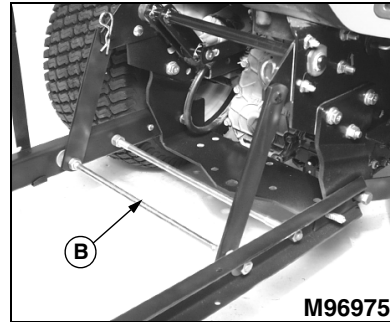
OPERATING

Leveling the Support Frame

1. Drive tractor onto paved level surface.
2. STOP engine and LOCK park brake.
3. Measure distance (A) from ground to bottom of each support channel. If distance is not equal or trunk appears to sag, level the support frame as follows with trunk installed:



- Loosen outside nuts securing rear stabilizer rod (B).
- Adjust rod end(s) forward or rearward as needed in frame slots until distance (A) is equal at both sides of support frame.
- Tighten outside nuts completely to secure stabilizer rod.



TROUBLESHOOTING

Using Troubleshooting Chart

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

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

IF	CHECK
Trunk is not level.	Support frame is not level. See Leveling the Support Frame in the OPERATING section.
Trunk fails to stay level.	Mounting kit or support frame bolts may need to be tightened.
	Load too heavy.

ASSEMBLY

Identify Box of Parts



- A** - (1) Tractor Trunk Box
B - (2) Box Support
C - (2) Stabilizer Rod
D - (1) Dump Latch Lever
E - (1) Bag of Parts
F - (2) Mounting Latch
G - (2) Support Link
H - (2) Attaching Plate
I - (2) Support Channel

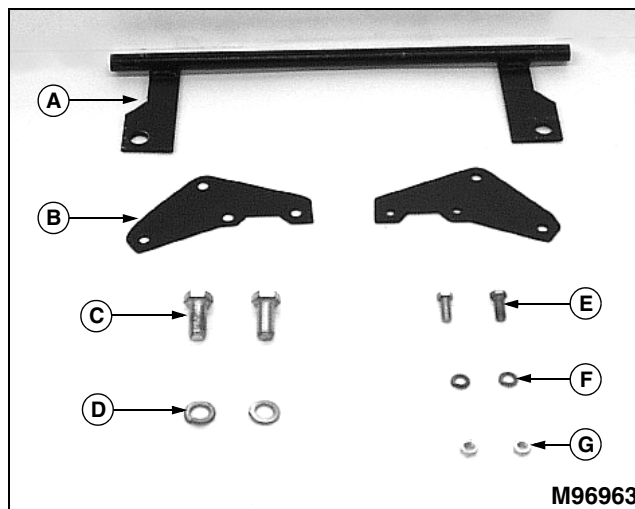
Bag of Parts

Qty. Used	Part Description	Size
2	Bolt, Hex Head	1/2 x 2 in.
4	Bolt, Carriage	5/16 x 1 inch
4	Bolt, Carriage	M8 x 1.25 x 20 mm
4	Bolt, Carriage	M10 x 1.5 x 20 mm
3	Screw, Machine	1/4 x 1-1/2 in.
6	Lockwasher	1/2 in.
4	Lockwasher	M8.4 x 15 x .80 mm
4	Lockwasher	M10.2 x 18.1 x 1.8 mm
4	Washer	17/32 x 13/16 x 1/16 in.
2	Washer	10.5 x 18 x 1.6 mm
3	Nylock Nut	1/4 in.

ASSEMBLY

Qty. Used	Part Description	Size
4	Locknut, Flange	5/16-18 inch
12	Nut	1/2 in.
4	Nut	M8 x 1.25 -10 mm
4	Nut	M10 x 1.5-10
2	Drilled Pins	3/8 x 3/4 in.
2	Spring Locking Pin, Small	
2	Spring Locking Pin, Large	
2	Spacer	
3	Spring	
1	Cover, Dump Lever	

Identify Box of Parts – Mounting Kit (BM19840)
(For Models 316, 318, 322, 330, 332, 420, and 430)



- | | |
|--------------------------------------|------------------------------------|
| A - (1) Support Shaft | E - (2) Bolt, 3/8 x 1 in. |
| B - (2) Support Bracket | F - (2) Lockwasher, 3/8 in. |
| C - (2) Bolt, 5/8 x 1-1/2 in. | G - (2) Nut, 3/8 in. |
| D - (2) Lockwasher, 5/8 in. | |

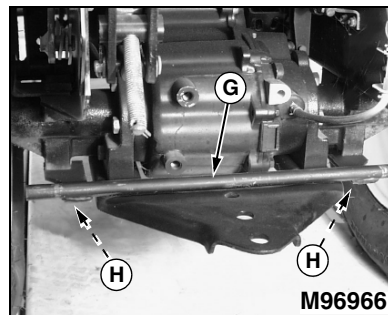
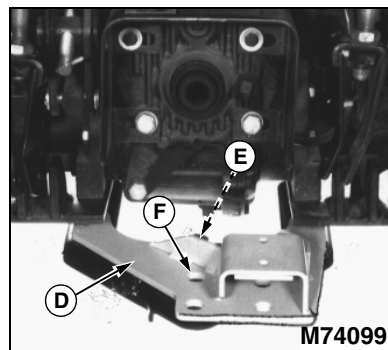
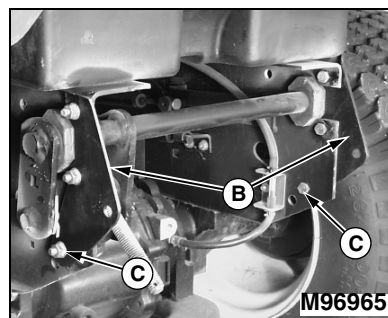
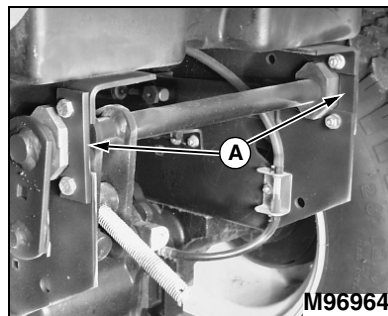
ASSEMBLY

Install Mounting Kit (Models 316, 318, 322, 330, 332, 420, and 430)

1. STOP engine and LOCK park brake.
2. Remove and discard retaining plates (A) at rear frame. Retain the bolts and nuts.
3. Install support brackets (B) using original hardware through top two holes in brackets. Use two 3/8 in. bolts, lockwashers, and nuts from kit at bottom hole (C) in each bracket. If holes (C) do not appear on your tractor, use the support brackets as templates and drill 3/8 in. holes (C) through rear frame. Tighten hardware completely.

NOTE: If equipped with bagger bracket (D) for 2-Bag Grass Bagger, remove bolt (E) and install it through middle hole (F). Bolt must be moved to provide clearance for next step.

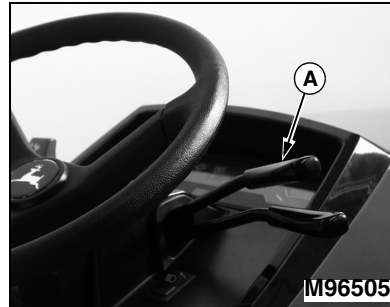
4. Attach support shaft (G) using two 5/8 in. bolts and lockwashers (H) installed at threaded holes in rear drive axle.



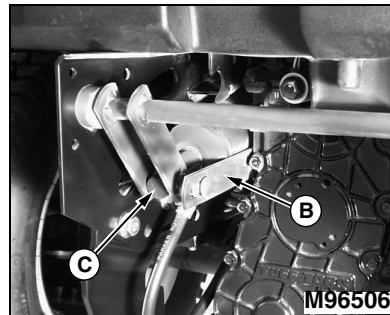
ASSEMBLY

Install Attaching Plates (Models 425, 445, and 455)

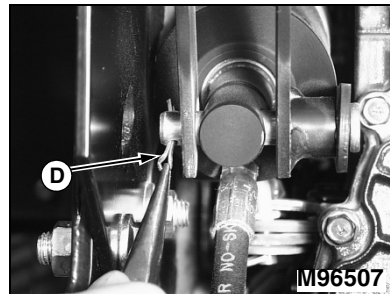
1. Drive tractor onto paved level surface.
2. Push and hold control lever (A) forward for several seconds after mower deck is fully lowered.
3. STOP engine and LOCK park brake.



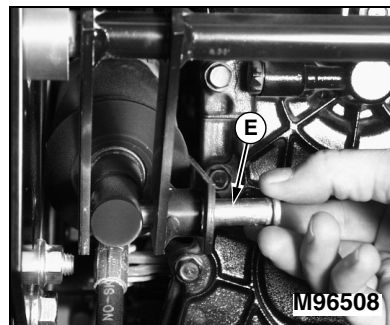
4. Make sure lift link (B) is loose at rear of tractor. If link is tight, start engine and repeat Steps 2 and 3 to further retract cylinder rod (C).



5. Straighten end of cotter pin (D). Remove and retain cotter pin.



6. Pull to remove cylinder pin (E). Retain the cylinder pin.



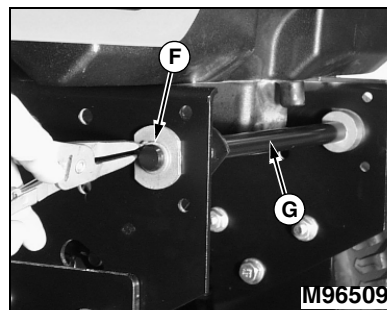
ASSEMBLY



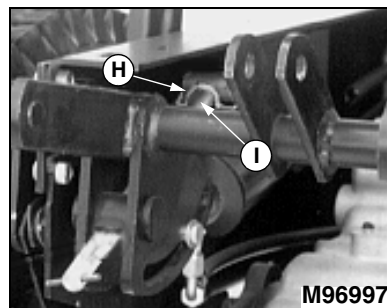
CAUTION: Snap rings can fly off suddenly with great force causing serious injury. Wear eye protection during removal and installation.

IMPORTANT: If snap rings are damaged after removal, replace them. Weakened snap rings may fail, causing serious equipment damage. Replacement snap rings (Part No. M40514) are available from your John Deere dealer.

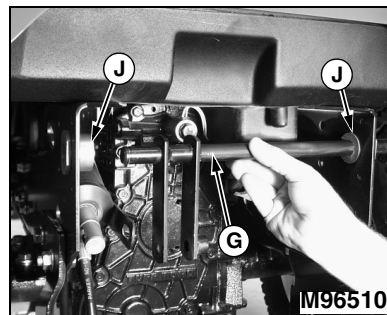
7. Remove snap ring (F) from both ends of cylinder shaft (G) using snap ring pliers. Discard the rings if damaged. Order replacements from your John Deere dealer.



NOTE: If equipped with 3-Point Hitch, wire form retainer (H) must be removed from depth stop rod (I) in order to complete next step.

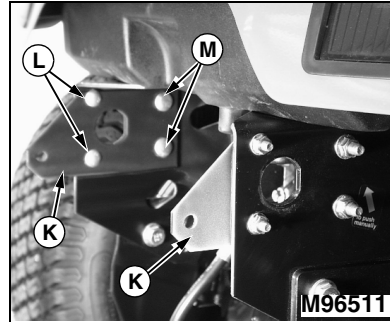


8. Remove shaft (G) and bushings (J) from rear frame.

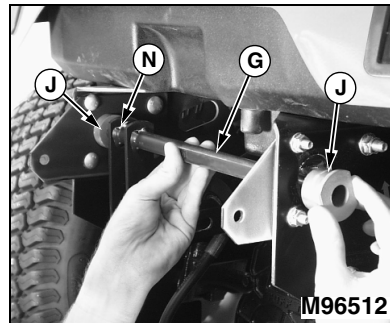


ASSEMBLY

9. Install attaching plates (K) to both sides of rear frame with two M8 x 1.25 x 20 mm carriage bolts (L) and two M10 x 1.5 x 20 mm carriage bolts (M). Install M8.4 lockwasher and M8 nut onto bolts (L). Install M10.2 lockwasher and M10 nut onto bolts (M). Tighten hardware completely.

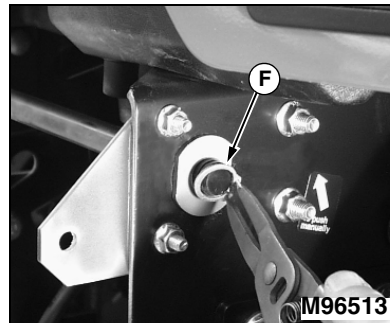


10. Place original cylinder shaft (G) through holes in attaching plates with welded end (N) at LEFT side. Slide bushings (J) over ends of shaft and seat in position.

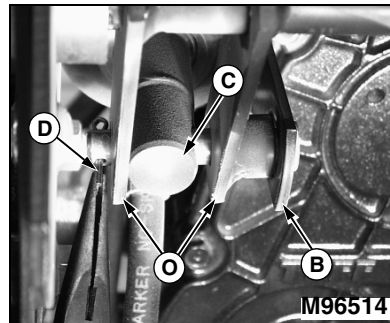


NOTE: If equipped with 3-Point Hitch, install the wire form retainer in its original position. If necessary, see the installation instructions provided with your hitch.

11. Using snap ring pliers, install snap ring (F) into groove at both ends of shaft.



12. Align cylinder rod (C) with holes in shaft extensions (O) and slot in lift link (B). Install the cylinder pin.

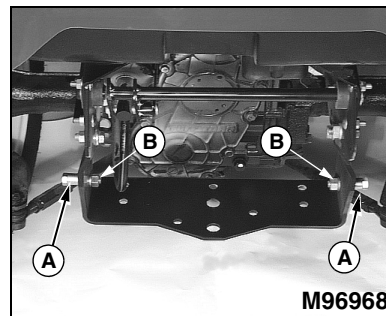


13. Insert cotter pin (D) and bend ends with pliers to secure.

ASSEMBLY

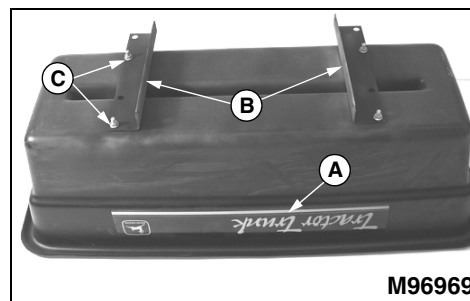
Install Mounting Studs (Models 425, 445, and 455)

1. Install 1/2 x 2 in. bolts and spacers (A) at bottom holes in rear frame.
2. Install 1/2 in. lockwashers and nuts (B). Tighten completely.



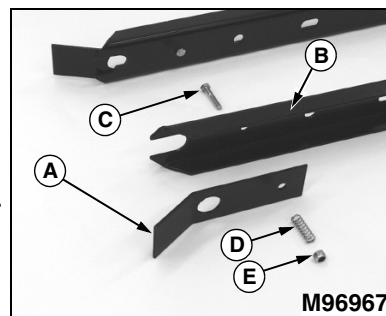
Install Box Supports

1. Box supports (B) are attached to the tractor trunk as shown. The wider side of each support goes against the box surface, and the supports overlap the box at the side opposite decal (A).
2. Attach the supports with four 5/16 x 1 in. carriage bolts installed from inside of box. Secure with 5/16-18 in. flange locknuts (C). Do not tighten completely.



Assemble Support Frame

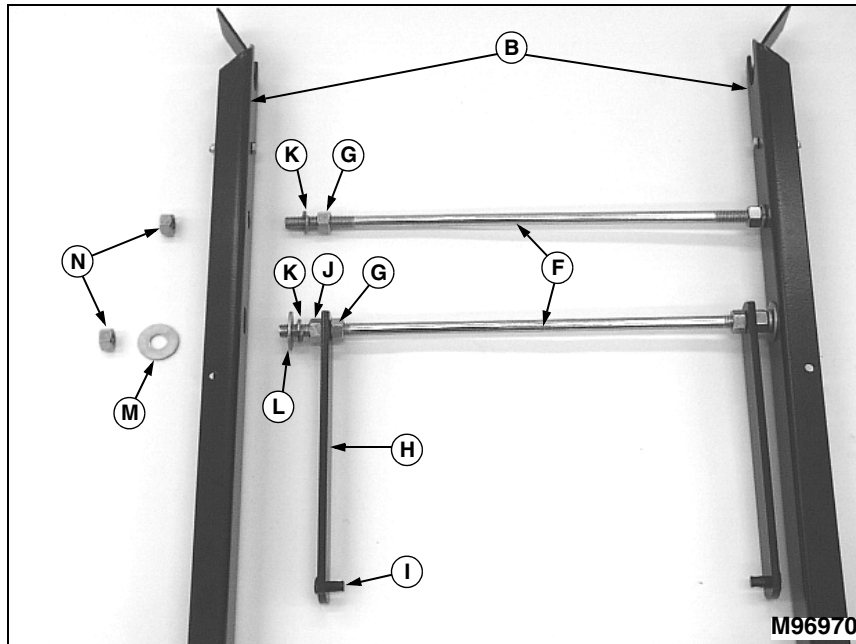
1. Attach latch (A) to open end of support channel (B) with 1/4 x 1-1/2 in. machine screw (C), spring (D), and 1/4 in. nylock nut (E). Tighten until two complete screw threads pass through nut. Repeat for other support channel.



ASSEMBLY

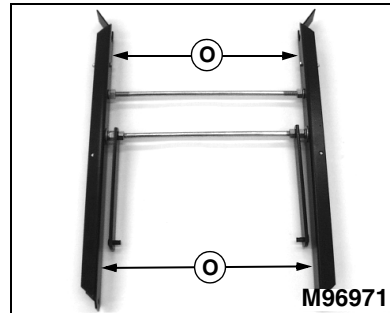
2. Position support channels (B) on a flat surface as shown. Attach both ends of stabilizer rods (F) as follows (right side shown already installed):

- Tighten 1/2 in. nut (G) onto both rods.
- Slide support link (H) onto bottom rod so pin (I) faces to the inside.
- Tighten 1/2 in. nut (J) onto bottom rod.
- Install 1/2 in. lockwasher (K) onto both rods.
- Install 17/32 x 13/16 x 1/16 in. washer (L) onto bottom rod.
- Slide support channel over stabilizer rods. Install 17/32 x 13/16 x 1/16 in. washer (M) on bottom rod.
- Install and tighten 1/2 in. nuts (N) onto stabilizer rods.

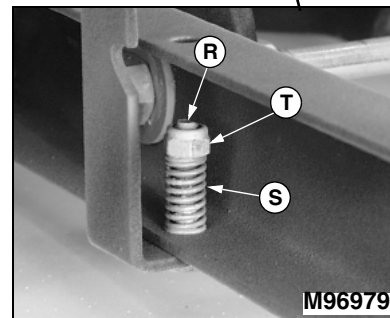
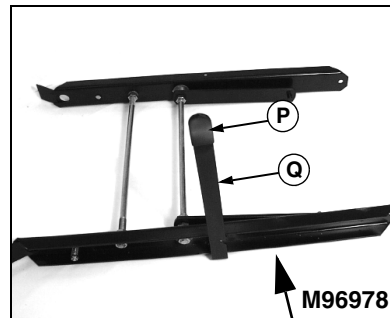


ASSEMBLY

3. After assembling support frame, adjust hardware on stabilizer rods so width (O) at both ends of frame is 39.5 cm (15-1/2 in.).



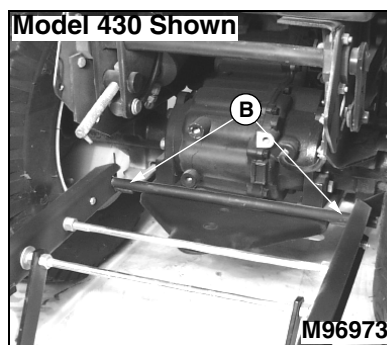
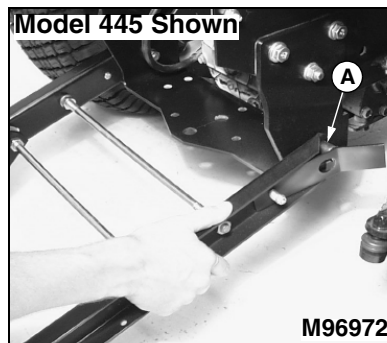
4. Install vinyl cover (P) over dump latch lever (Q). Attach dump latch lever to left side of support frame using 1/4 x 1-1/2 in. machine screw (R), spring (S), and nylock nut (T). Tighten until two complete screw threads pass through nut.



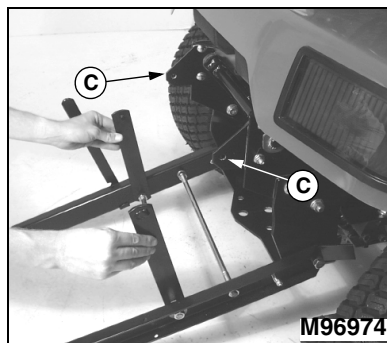
ASSEMBLY

Install Support Frame on Tractor

1. Lock the support frame latches over mounting studs (A) or support shaft ends (B) at both sides of rear frame. Make sure both sides are securely latched.

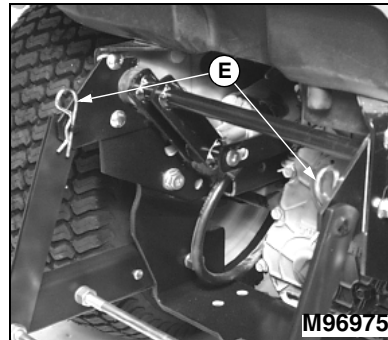


2. Swing support links up and raise frame. Insert link pins into holes (C).



ASSEMBLY

3. Secure the support links with large spring locking pins (E).

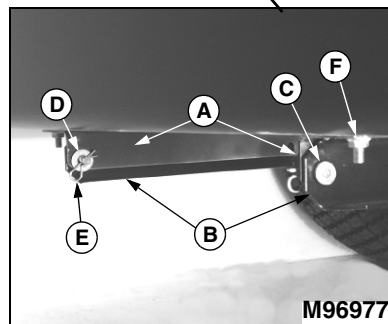


Install Tractor Trunk

1. Set tractor trunk onto support frame so box supports (A) are to the inside of support channels (B).



2. Install drilled pin (C) and secure with 10.5 x 18 x 1.6 mm washer (D) and small spring locking pin (E) at both sides.

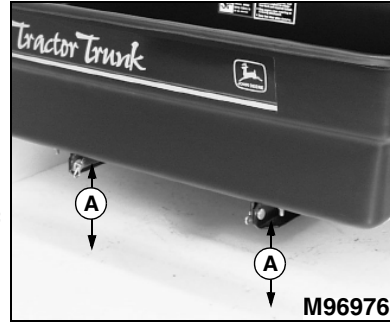


3. Tighten four flange locknuts (F) completely to secure the trunk.

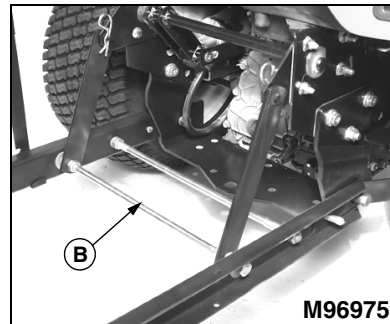
ASSEMBLY

Level Support Frame

1. Drive tractor onto paved level surface.
2. STOP engine and LOCK park brake.
3. Measure distance (A) from ground to bottom of each support channel. If distance is not equal or trunk appears to sag, level the support frame as follows with trunk installed:



- Loosen outside nuts securing rear stabilizer rod (B).
- Adjust rod end(s) forward or rearward as needed in frame slots until distance (A) is equal at both sides of support frame.
- Tighten outside nuts completely to secure stabilizer rod.



SPECIFICATIONS

Tractor Trunk Specifications

The 3-Cubic Foot Tractor Trunk may be used with the following lawn and garden tractors: Models 316 (Serial No. 285001 and above), 318, 322, 330, 332, 420, 425, 430, 445, and 455.

Models 316, 318, 322, 330, 332, 420, and 430 require a special mounting kit in addition to the basic Tractor Trunk kit.

Volume:	.085 m ³ (3 cu ft)
Maximum Load Capacity:	136 kg (300 lb)

(Specifications and design subject to change without notice.)

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JOHN DEERE SERVICE LITERATURE

Order Form

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To order these publications, call 1-800-522-7448. If you want manuals or catalogs for equipment not shown on this list, provide the model number, serial number, and name of the product when you call. Make checks payable to John Deere.

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Operator's Manual	OMM137364			
Sub-total				
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Shipping & Handling				
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NOTES



QUALITY DOESN'T END WHEN YOU INVEST IN A DEERE

John Deere equipment is more than just a purchase, it's an investment in quality. That quality goes beyond our equipment to your John Deere dealer's parts and service support. This support is needed to keep you a satisfied customer.

That's why John Deere has initiated a process to handle your questions or problems, should they arise. The following three steps will help guide you through the process.

Step 1 Refer to your operator's manual

- A. It has many illustrations and detailed information on the safe and proper operation of your equipment.
- B. It gives troubleshooting procedures, and specification information.
- C. It gives ordering information for parts catalogs, service and technical manuals.
- D. If your questions are not answered in the operator's manual, then go to Step 2.

Step 2 Contact your dealer

- A. Your John Deere dealer has the responsibility, authority, and ability to answer questions, resolve problems, and fulfill your parts and service needs.
- B. First, discuss your questions or problems with your dealer's trained parts and service staff.
- C. If the parts and service people are unable to resolve your problem, see the dealership manager or owner.
- D. If your questions or problems are not resolved by the dealer, then go to Step 3.

Step 3 Call the John Deere Customer Communications Center

- A. Your John Deere dealer is the most efficient source in addressing any concern, but if you are not able to resolve your problem after checking your operator's manual and contacting your dealer, call the Customer Communications Center.
- B. For prompt, effective service, please have the following ready before you call:
 - The name of the dealer with whom you've been working.
 - Your equipment model number.
 - Number of hours on machine (if applicable).
 - Your 13-digit serial number which you recorded on the inside front cover of this manual.
 - If the problem is with an attachment, your attachment identification number.
- C. Then call 1-800-537-8233 and our advisor will work with your dealer to investigate your concern.

