

445 AND 465 FLAIL SPREADERS

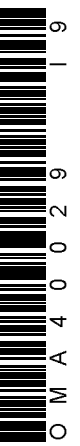


OPERATORS MANUAL 445 AND 465 FLAIL SPREADERS

OMA40029 I9 English

**PLOW & PLANTER WORKS
OMA40029 I9**

LITHO IN THE U.S.A.
ENGLISH



INTRODUCTION



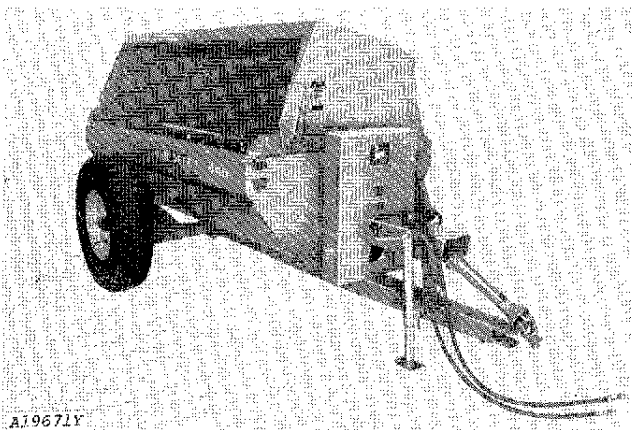
This safety alert symbol identifies important safety messages in this manual. When you see this symbol, be alert to the possibility of personal injury and carefully read the message that follows.

“Right-hand” and “left-hand” sides are determined by facing in the direction the spreader will travel when in use.

Record your spreader model and serial number in the space provided on page 47.

The warranty on this spreader appears on your copy of the purchase order which you should have received from your dealer.

Measurements are shown with their respective metric equivalents throughout this operator's manual. These equivalents are the SI (International System) Units of Measure.



445 Flail Spreader

445 AND 465 FLAIL SPREADERS

TO THE DEALER

After the spreader has been assembled, and lubricated inspect it thoroughly to be sure it is functioning properly before delivering it to the customer. The following check list is a reminder of points to check. Check off each item as it is found satisfactory or after proper adjustment has been made.

The John Deere Delivery Receipt, when properly filled out and signed by the dealer and customer, verifies that the predelivery and delivery services were satisfactorily performed. When delivering this machine, give the customer a copy of the delivery receipt and the operator's manual. Explain their purpose.

Be certain to retain your copy of the packing list for shipping bundle information.

PREDELIVERY CHECK LIST

The following check list is a reminder of points to inspect. Check off each item as it is found satisfactory or after proper adjustment is made.

- Check sprockets for damage.
- Check drive chain for proper installation and adjustment. See pages 41-42.
- Check all bearing grease seals for leakage.
- Inflate tires to 415 to 485 kPa (4 to 4.8 bar) (60 to 70 psi).
- Lubricate all lubrication points. See page 22.

- Check to be sure that all bolts are tight and all cotter pins are spread. See torque chart on page 23.

- Paint all unpainted bolts and nuts and any parts scratched in shipment.

Check all wheel hub bolts to be sure they are tight.



CAUTION: Never walk in front of or stand in front of the discharge side of the spreader during operation or run-in.

- Operate spreader for about one minute and check for loose bolts, heating rotor bearings, binding parts, loose chain or other irregularities.

- Watch for any signs of faulty operation or unusual sounds.

- After completing full-speed operating, stop spreader and check the drive chain. If necessary, adjust tension.

- This spreader has been tested and to the best of my knowledge, is ready for delivery to the customer.

(Date Set-Up)

(Signature of Set-Up Person)

DELIVERY CHECK LIST

The following check list is a reminder of very important information which should be conveyed directly to the customer at the time the spreader is delivered. Check off each item as it is fully explained to the customer.

- Advise the customer that the life expectancy of this or any other machine is dependent on regular maintenance including lubrication and bolt torque.
- Tell the customer all about safety precautions that must be observed while using this spreader.
- When the spreader is transported on a road or highway at night or during the day, accessory lights and devices should be used for adequate warning to operators of other vehicles. In this regard, tell the customer to check local governmental regulations.
- Give the operator's manual to the customer and explain all operating adjustments.
- To the best of my knowledge, this machine has been delivered ready for field use and the customer has been fully informed as to proper care and operation.

(Date Delivered)

(Signature of Delivery Person)

OWNER REGISTER

Name _____

Post Office _____

County _____ State _____

Model _____

Serial No. _____

Date Sold _____



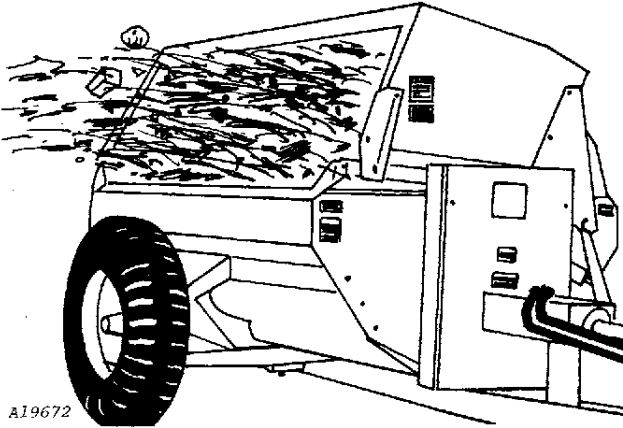
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Safety

2-3

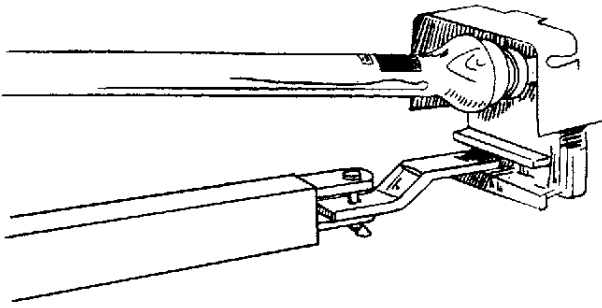


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Stay Clear of Thrown Objects

Stay clear of discharge side of tank. Rocks and other objects may be thrown a considerable distance during unloading operation. Keep others away from line of discharge.

Worn flails could break loose and be thrown. Inspect flails frequently for wear and replace them when necessary.



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Stay Clear of PTO and Other Moving Parts

Stop the engine and be sure the PTO has stopped before:

- Connecting or disconnecting a PTO shaft
- Making any adjustment to PTO drive train or hitch
- Cleaning out PTO driven equipment

PTO master shield should be in place at all times except when connecting a PTO drive line or for special applications as directed in the operator's manual.

The PTO shaft guard should be in place when the PTO is not being used.

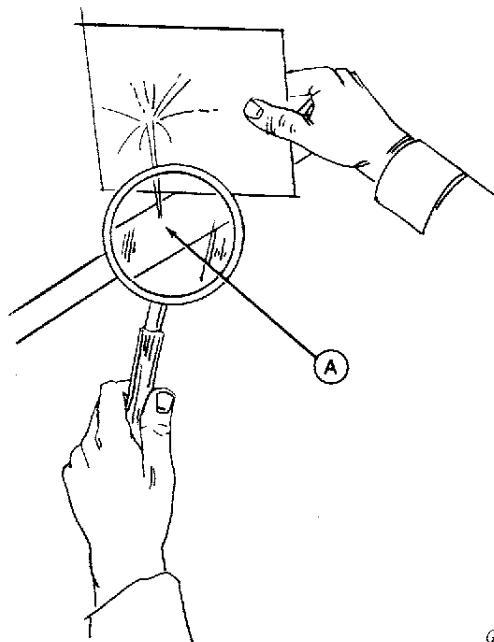
Stay clear of lid and actuating linkage when lid is being opened and closed.

Avoid High Pressure Leaks

Escaping hydraulic fluid under pressure can have sufficient force to penetrate the skin, causing serious injury. Before disconnecting lines, be sure to relieve all pressure. Before applying pressure to the system, be sure all connections are tight and that lines, pipes and hoses are not damaged.

Fluid escaping from a very small hole can be almost invisible. Use a piece of cardboard or wood, rather than your hands, to search for suspected leaks.

If injured by escaping fluid, see a doctor at once. Serious infection or reaction can develop if proper medical treatment is not administered immediately.



A—Pin Hole Leak

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Protect Against Noise

Prolonged exposure to loud noise can cause impairment or loss of hearing.

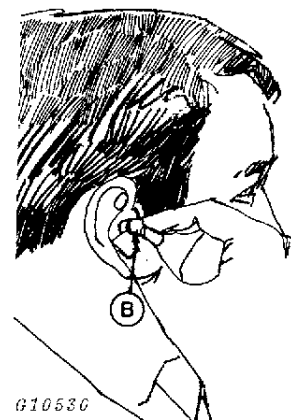
Hearing protective devices (such as earmuffs or earplugs) can effectively protect against loud noises.

Wear a suitable hearing protective device when you are exposed to noise which is objectionable or uncomfortable.



G10529

A—Earmuffs



G10530

B—Earplugs

Transport Safely

Never ride or allow passengers on the tractor, tractor drawbar or spreader hitch.

Transport a fully loaded spreader at slow speed and be extra careful when the spreader is used in hilly country.

Use a tractor large enough to maintain control.

Refer to transport chart on page 10.

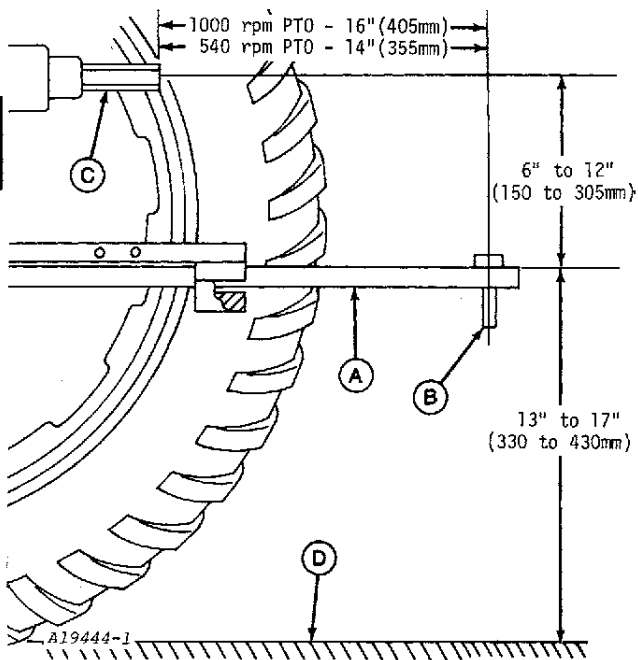
When transporting the spreader on a road or highway at night or during the day, use accessory lights and devices for adequate warning to the operators of other vehicles. In this regard, check local governmental regulations. Various safety lights and devices are available at your John Deere dealer.



Preparing for Use

PREPARING THE TRACTOR

4-5



Drawbar

Adjust drawbar (A) to dimensions shown. Hitch pin hole (B) must be directly below the centerline of the tractor PTO shaft (C).

IMPORTANT: The spreader powerline should be as close to parallel to the ground (D) as possible. Using the dimension ranges shown in the illustration at left, position the tractor drawbar vertically until the powerline is approximately parallel to the ground.

- A—Drawbar
- B—Hitch Pin
- C—PTO Shaft
- D—Ground Line

Ballast, Wheel Spacing and Tire Inflation

Provide sufficient weighting to stabilize the tractor when operating on hilly land or other adverse conditions. See your tractor operator's manual.

To insure proper stability, adjust ballast, wheel spacing and tire inflation according to tractor operator's manual.

Hydraulic Fluid Level

NOTE: Tractor must be on a level surface and engine stopped.

Check fluid level. If necessary fill to proper level on dipstick.

PTO Speed



CAUTION: Under no circumstances should a spreader equipped for 540 rpm PTO drive be operated with a tractor equipped with 1000 rpm PTO; nor should a spreader equipped for 1000 rpm PTO drive be operated with a tractor equipped with 540 rpm PTO.

4-5

PREPARING THE SPREADER

Tire Inflation

Inflate tires to 415 to 485 kPa (4 to 5 bar) (60 to 70 psi).

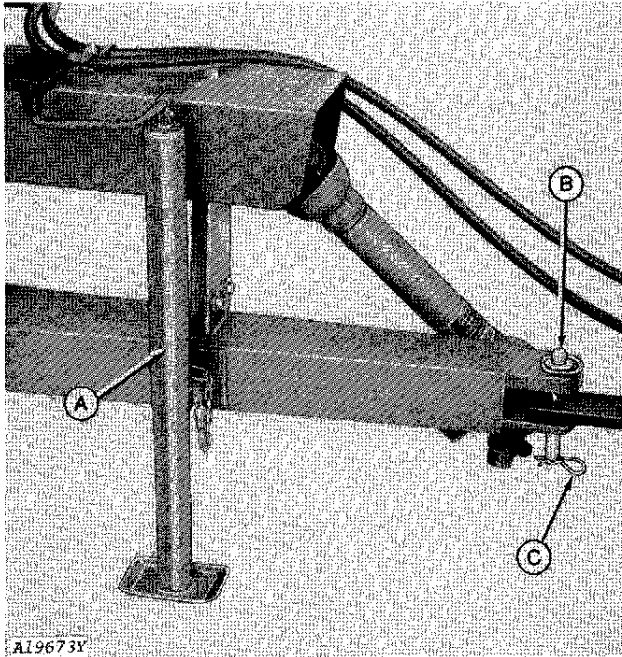
Lubrication

Refer to page 22.



Attaching To Tractor

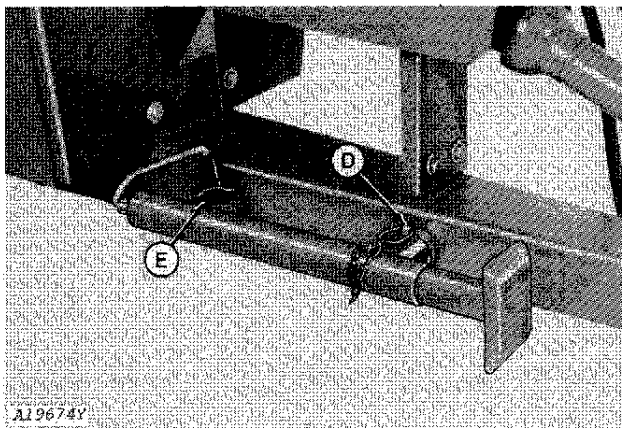
6-8



Using the hitch stand (A), align spreader hitch with tractor drawbar. Install hitch pin (B) and secure with spring locking pin (C).

⚠ CAUTION: Do not operate spreader unless spring locking pin is installed in hitch pin.

- A—Hitch Stand
- B—Hitch Pin
- C—Spring Locking Pin



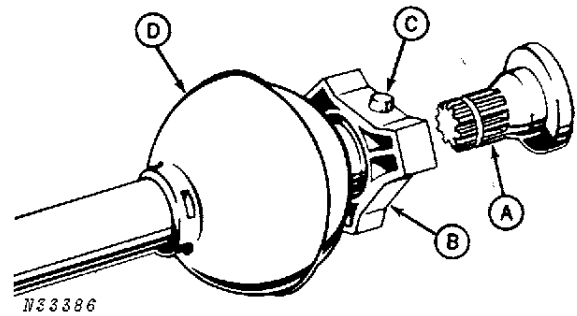
Swing the hitch stand (A) to a horizontal position and lock in place with lock pin (D). Position jack handle (E) as shown.

- D—Lock Pin
- E—Jack Handle

ATTACHING PTO POWR-GARD™ HOOKUP

⚠ CAUTION: Follow safe PTO hookup procedure outlined below.

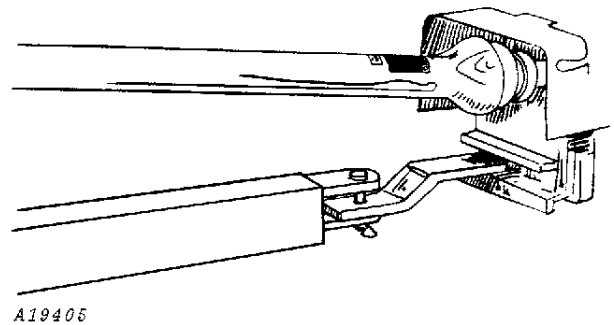
1. Shut off tractor engine.
2. Move collar (B) back against stop on yoke.
3. Push button (C) and turn collar (B) until button locks in position. This locks collar to yoke.
4. Turn collar (B) or tractor PTO (A) to align splines.
5. Push bell (D) forward firmly until button snaps out.
6. Pull rearward on bell (D) to be sure powershaft is latched. Do NOT pull on collar as this will release latch.
7. Replace any tractor PTO shielding which was removed to attach PTO Powr-Gard Hookup.



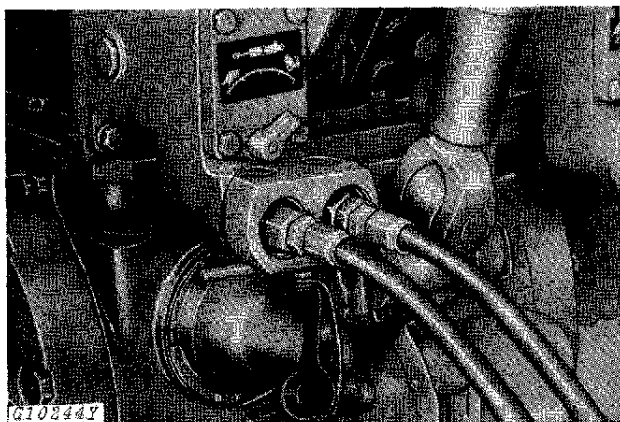
A—Tractor PTO
 B—Collar
 C—Button
 D—Bell

6-8

⚠ CAUTION: Tractor master shield should be in place at all times. Remove master shield only when necessary to install PTO shaft. When shaft is installed, replace master shield.



INSTALLING HYDRAULIC HOSES



6-8



CAUTION: Escaping fluid under pressure can have sufficient force to penetrate the skin, causing serious injury. Before connecting lines, be sure to relieve all pressure. Before applying pressure to the system, be sure all connections are tight and that lines, pipes and hoses are not damaged.

Fluid escaping from a very small hole can be almost invisible. Use a piece of cardboard or wood, rather than your hands, to search for suspected leaks.

If injured by escaping fluid, see a doctor at once. Serious infection or reaction can develop if proper medical treatment is not administered immediately.

IMPORTANT: Position metering valve arm near the "hare" position. Do not operate near the "tortoise" position or damage to tractor can result.

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