

410 FINISHING HARROW



OPERATORS MANUAL 410 FINISHING HARROW

OMA39766 H9 English

**PLOW & PLANTER WORKS
OMA39766 H9**

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 finishing harrow will travel when in use.

Record your finishing harrow serial number in the space provided on page 34. Your dealer needs this information to give you prompt, efficient service.

The warranty on this finishing harrow appears on your copy of the purchase order which you should have received from your dealer when you purchased the finishing harrow.

Because John Deere sells its products world-wide, U.S. units of measure are shown with their respective metric equivalents throughout this operator's manual. These equivalents are the SI (International System) Units of Measure.

JOHN DEERE 410 FINISHING HARROWS

After the harrow 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 all bolts and nuts to be sure they have been tightened and all cotter pins have been spread.
- ☐ Pack all wheel bearings.
- ☐ Be sure all grease fittings are installed. Lubricate the disk. See pages 16 and 17.
- ☐ Inflate tires to 248 kPa (2.5 bar) (30 psi).
- ☐ Paint all unpainted bolts and nuts and any other parts scratched in shipment.
- ☐ This finishing harrow has been checked and, to the best of my knowledge, is ready for delivery to the customer.

(Date Set Up)

(Signature of Set-Up Person)

OWNER REGISTER

Name _____

Post Office _____

County _____ State _____

Model _____

Serial No. _____

Date Sold _____

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 harrow 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 harrow.
- ☐ When the harrow 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)



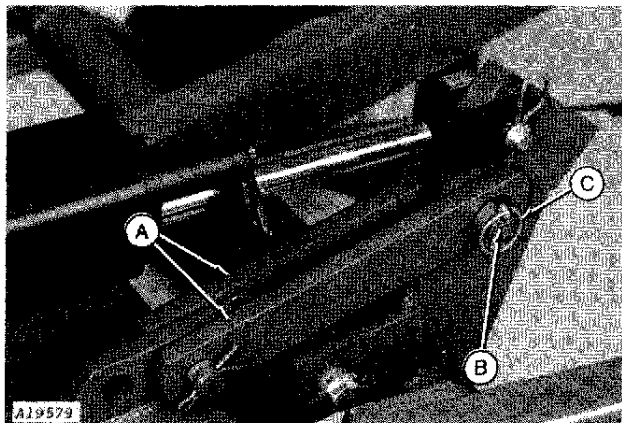
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Safety

2-3



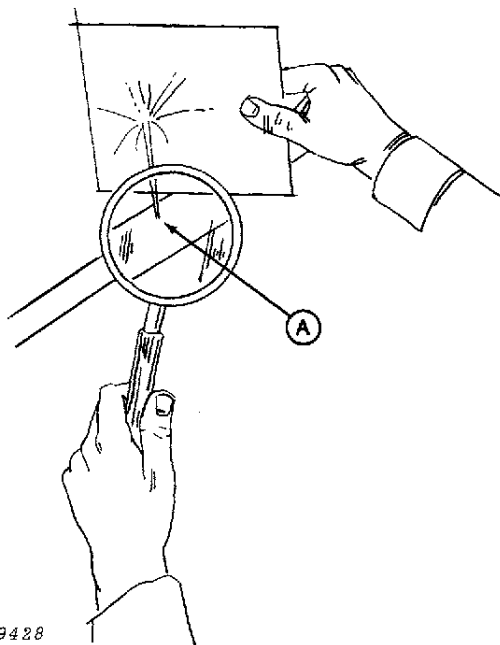
A—Transport Bars
B—Transport Pin
C—Quik-Lock Pin

Transport Safety

When transporting the finishing harrow on a public road, follow safety instructions outlined under "Transporting". See pages 9-10.

Use care when transporting across rough ground.

Before transporting harrow, install transport bars (A) and secure with transport pin (B) and Quik-Lock™ pin (C).



Avoid High-Pressure Hydraulic Oil

Escaping hydraulic oil under pressure can have sufficient force to penetrate the skin, causing serious personal 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. Hydraulic oil escaping from a very small hole can be almost invisible. Use a piece of cardboard or wood, rather than hands, to search for suspected leaks.

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

Always relieve pressure in the hydraulic system before working with hydraulic system components.

A—Pin Hole Leak

Operating the Harrow Safely

Be careful when operating the harrow to avoid injury.

Never ride or permit others to ride on the drawbar of the tractor or on the harrow.

Park or block the harrow so it will not roll when disconnected from the tractor drawbar.

When leaving the tractor and harrow, install transport bars or lower the harrow to the ground.

Only one person - the operator - should be permitted on the tractor platform while tractor and harrow are in operation.

Be careful when operating on hillsides because the tractor may tip sideways if it strikes a hole, ditch or other irregularity.

Lubricate the Harrow Safely

Do not grease, oil or adjust the harrow while it is in motion.

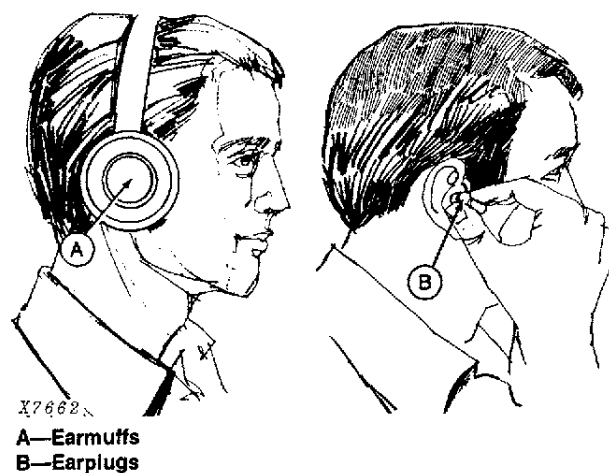
Dispose of Spray Cans Safely

If spray can paint is used for protecting harrow to be put in storage, be careful when discarding empty can. Do not incinerate or puncture can.

Protect Against Noise

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

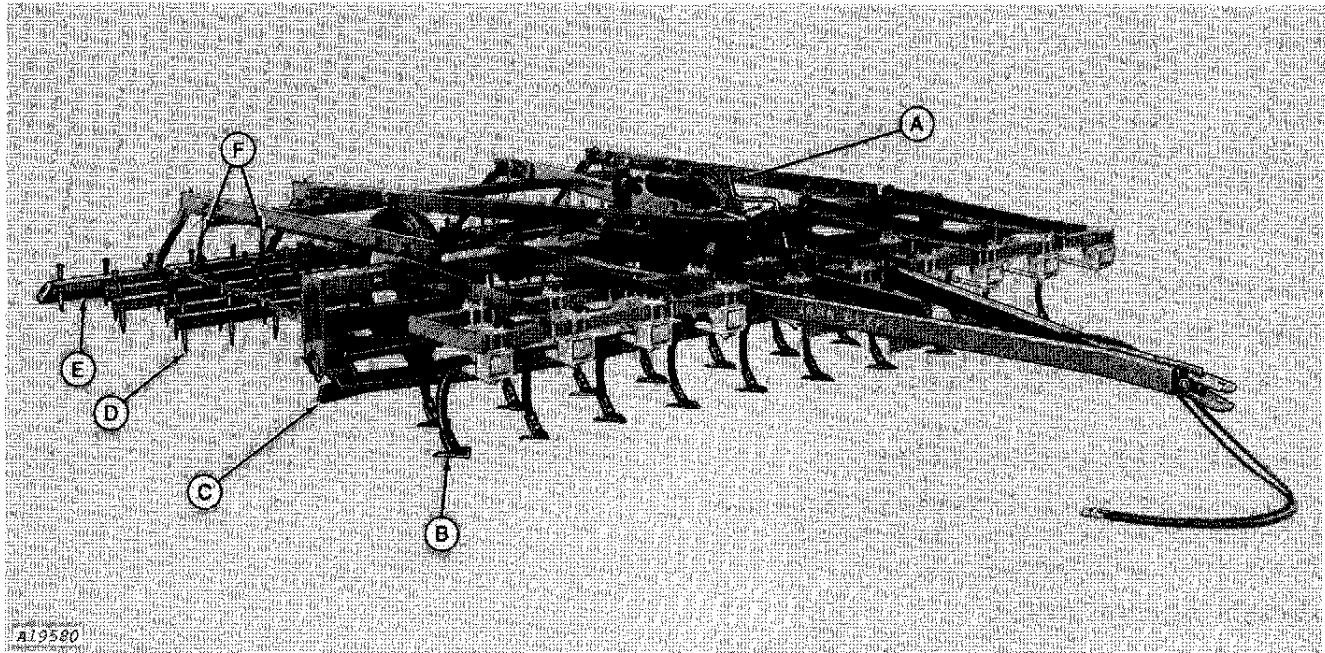
Wear a suitable hearing protective device such as earmuffs (A) or earplugs (B) to protect against objectionable or uncomfortable loud noises.





Identification

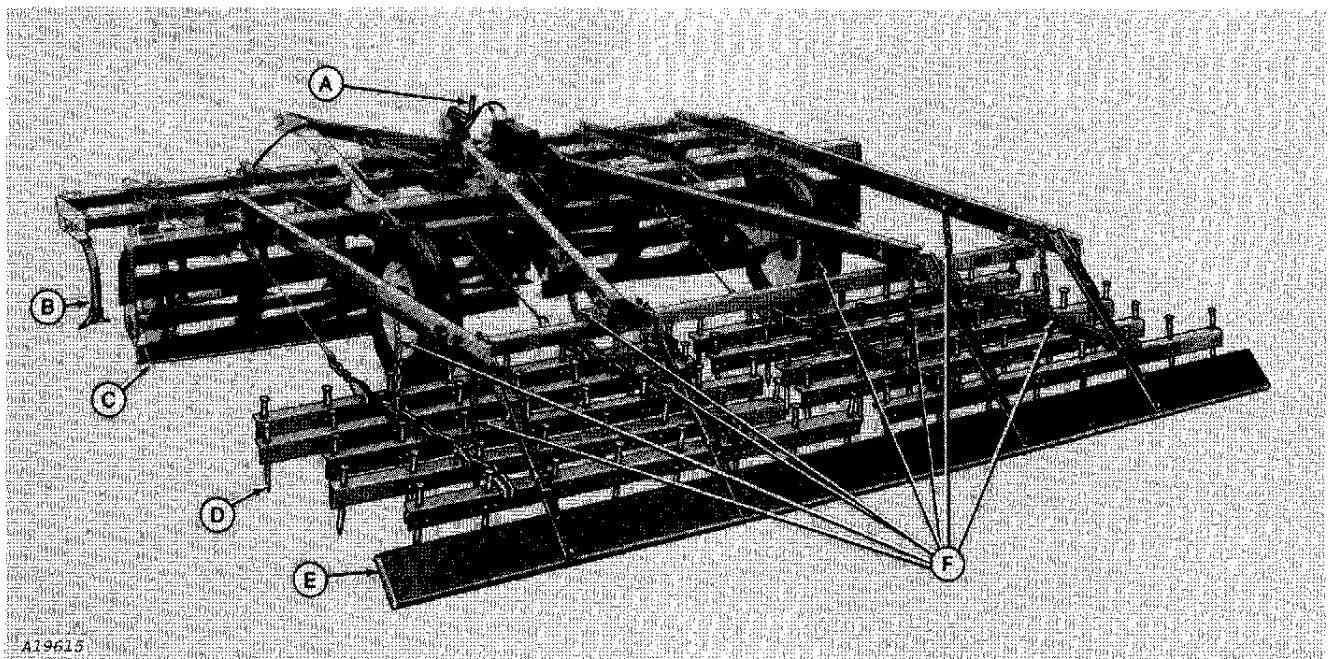
4



A—Leveling Crank
B—Spring Tooth Harrow (Attachment)
C—Cutting Reel

D—Spike Tooth
E—Leveler Board
F—Harrow Lift Chains

Front View



A—Leveling Crank
B—Spring Tooth Harrow (Attachment)
C—Cutting Reel

D—Spike Tooth
E—Leveler Board
F—Harrow Lift Chains

Rear View



Preparing for Use

PREPARING THE HARROW

Lubricate the harrow as instructed on pages 16-17.

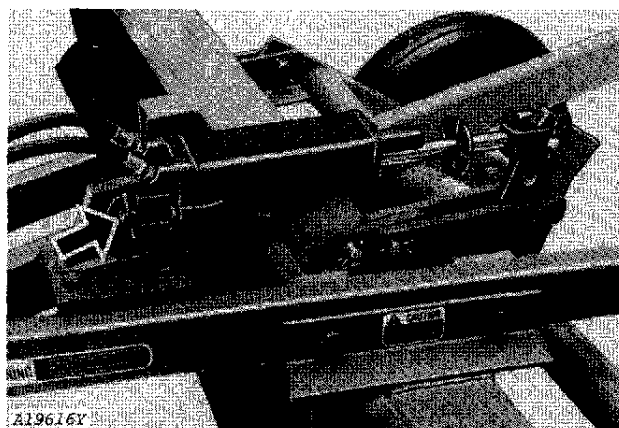
Be certain all bolts are tightened securely. See torque chart on page 18.

Inflate the harrow tires to 248 kPa [2.5 bar] (30 psi) of air pressure.

The 410 Finishing Harrow can be used with any tractor equipped with an 8-inch (205 mm) stroke remote hydraulic cylinder that conforms to ASAE-SAE standards.

If equipped with spring attachment, your hoses must be at least 144" (3 660 mm) long. If not equipped with spring tooth attachment, your hoses must be at least 132" (3 355 mm) in length.

Install the remote hydraulic cylinder on the harrow as shown at right. Be sure bushing is positioned in hole in cylinder anchor (bold arrow).



PREPARING THE TRACTOR

General

For complete tractor operating instructions, refer to your tractor operator's manual.

Rockshaft Selector Lever

Set the tractor rockshaft selector lever in the "zero", "D", or "MIN" position, depending upon your model tractor.

Tire Inflation

Inflate the tractor tires as recommended in the tractor operator's manual.

Tractor Drawbar

Place the tractor drawbar in the lower position.

Secure tractor drawbar in the center of the drawbar support.

If equipped, remove tractor clevis parts.

Rear Wheel Weighting

Rear wheel weights may be necessary to eliminate excessive wheel slippage or for stability in rough or hillside fields. Weights should not be added to the point where all slippage is eliminated. This would hinder maximum performance of the tractor. See your tractor operator's manual for recommended rear wheel weighting.

Rockshaft Operating Lever Height Stop (4030, 4040, 4230, 4240 and 4440 Tractors)

If the tractor rockshaft is accidentally lowered with a Quik-Coupler hitch on the tractor, damage can occur to the 410 Finishing Harrow hitch when turning the tractor.

To prevent accidentally lowering the rockshaft while operating the harrow, install AR60331 rockshaft height stop. Installation instructions are provided with the lever stop.

Hydraulic Oil Level

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

Check hydraulic oil level. If necessary fill to proper level on dipstick.

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