

8350 and 8450 Integral Two-Way Moldboard Plows



OPERATORS MANUAL 8350 and 8450 Integral Two-Way Moldboard Plows

OMA43533 Issue F1 English

Plow & Planter Works
OMA43533 Issue F1


LITHO IN U.S.A.
ENGLISH





To the Purchaser

This new plow was carefully designed and manufactured to give years of dependable service. To keep it operating efficiently, read the instructions in this operator's manual. Each section is clearly identified so you can easily find the information you need—whether it is operation, lubrication, or maintenance. Read "Contents" to learn where each section is located.

 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.

Your operator's manual contains SI Metric equivalents which follow immediately after the U.S. customary units of measure.

In addition to the equipment furnished with your plow, attachments are available to help you do a better job in special conditions. These are described in the "Attachment" section of this manual and can be purchased from your John Deere dealer.

"Right-hand" and "left-hand" sides are determined by facing in the direction the plow will travel when in use.

Record your plow serial number in the space provided on page 42. Your dealer needs this information to give you prompt, efficient service when you order parts or attachments. If your plow requires replacement parts, go to your John Deere dealer where you can obtain Genuine John Deere parts—accept no substitutes.

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



Contents

Page	
2-3	Safety
4	Identification View
5-9	Preparing for Use
10-15	Attaching and Detaching
16	Transporting
17-24	Operating Adjustments
25	Field Adjusting Plow
26-30	Attachments
31-33	Lubrication
34-36	Service
37-40	Trouble Shooting
41-42	Specifications
43	Index



Safety

2-3

TRANSPORT SAFELY

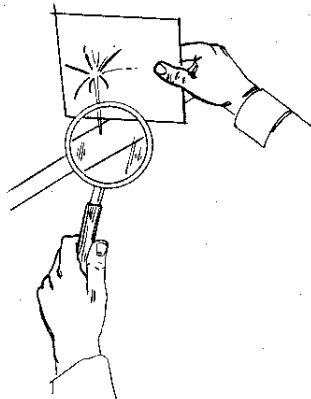
Use required tractor front end weights for optimum tractor stability. See page 8 under "FRONT BALLAST."

Transport the plow at a maximum speed of 10 mph (16 km/h). Do not exceed. Reduce speed when traveling over rough ground.

Never travel at any speed which does not permit adequate control of steering and stopping.

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

AVOID HIGH PRESSURE LEAKS



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Escaping fluid under pressure can have sufficient force to penetrate the skin, causing serious injury. Before disconnecting lines, be sure to relieve pressure. Before applying pressure, be sure connections are tight and lines, pipes and hoses are not damaged. Use a piece of cardboard or wood, rather than hands, to search for 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.

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

MOUNTING TIRES

Failure to follow proper procedures when mounting a tire on a wheel or rim can produce an explosion which may result in serious injury or death. Do not attempt to mount a tire unless you have the proper equipment and experience to perform the job. Have it done by your John Deere dealer or a qualified tire repair service.

When sealing tire beads on rims, never exceed 35 psi or maximum inflation pressures specified by tire manufacturers for mounting tires. Inflation beyond this maximum pressure may break the bead, or even the rim, with dangerous explosive force. If both beads are not seated when the maximum recommended pressure is reached, deflate, reposition tire, relubricate bead, and reinflate.

Detailed agricultural tire mounting instructions, including necessary safety precautions, are contained in John Deere Fundamentals of Service (FOS) Manual 55, Tires and Tracks, available through your John Deere dealer. Such information is also available from the Rubber Manufacturers Association and from tire manufacturers.

OPERATE SAFELY

Never permit any person other than the operator on the tractor.

Never ride or permit others to ride on the plow.

When indexing plow be sure no one is in the plow indexing path.

When the plow is in a raised position, be sure rockshaft and remote cylinder operating levers are not bumped or touched by anyone.

Always lower the support stand to help support the plow before unhitching from the tractor.

Always lower the plow to the ground when not in use.

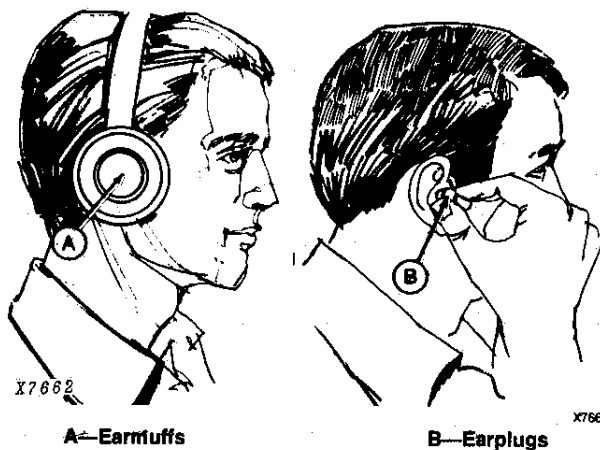
LUBRICATE THE PLOW SAFELY

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

DISPOSE OF SPRAY CANS SAFELY

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

PROTECT AGAINST NOISE



2-3

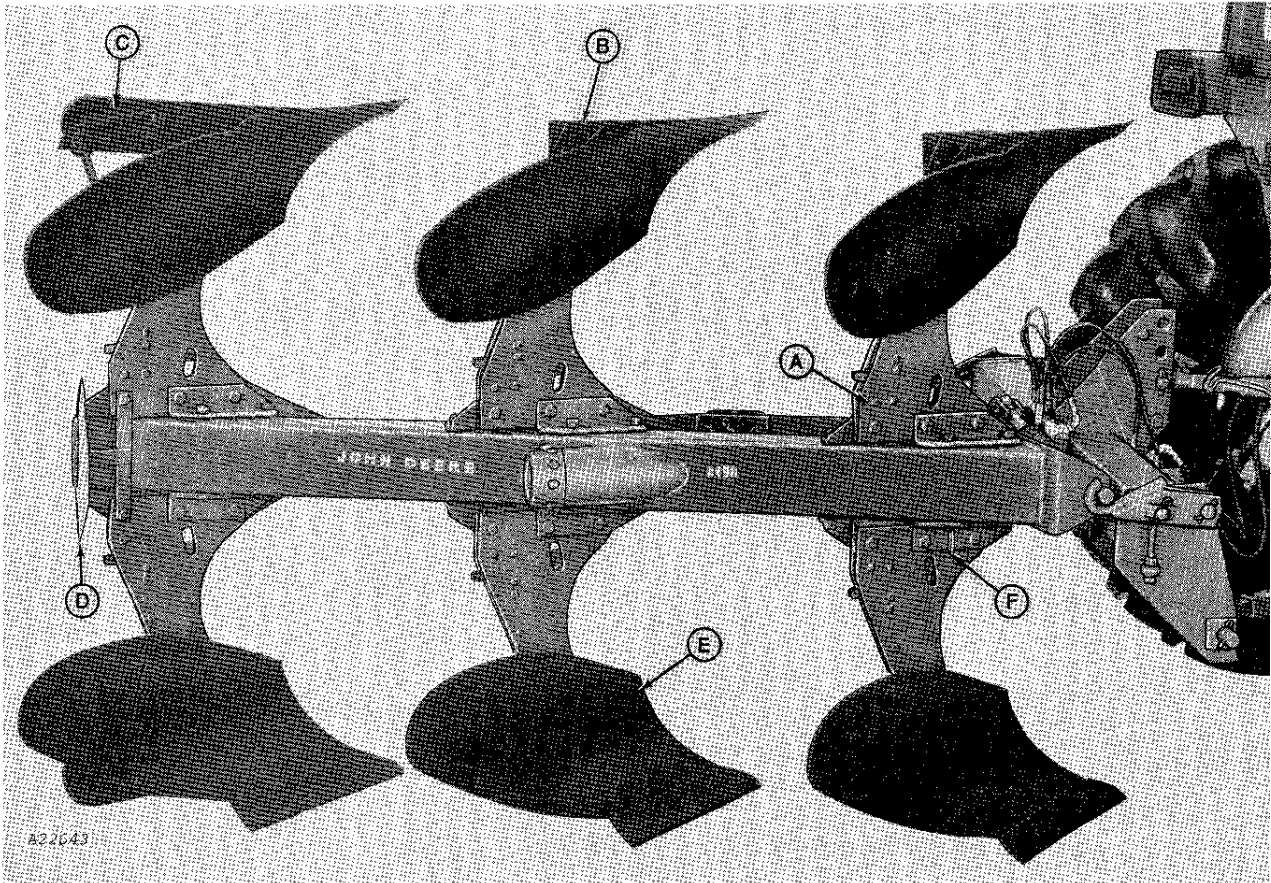
Prolonged exposure to loud noise can cause impairment or loss of hearing.

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



Identification View

4



A—Safety-Trip Standard
B—Left-Hand Bottom

C—No. 12 Rear Landside
D—SMV Emblem

E—Right-Hand Bottom
F—Reflector

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8450 Plow Illustrated



Preparing For Use

PREPARING THE PLOW

Plow Bottoms

The polished surfaces of the plow bottoms have been painted with protective black paint.

In soils where the black paint will not wear off, remove with diesel fuel.

If the plow is not to be used immediately, protect the polished surfaces by applying a coat of cup or gun grease. If the plow is to be put in storage for a considerable length of time, see page 36.

Bolts and Set Screws

Before starting to work with a new plow or one which has been stored, be sure all bolts and set screws are tight and all cotter pins spread to keep them from falling out. Check the bolts that hold the plow bottoms to see that they are drawn up very tight. See torque chart on page 32.

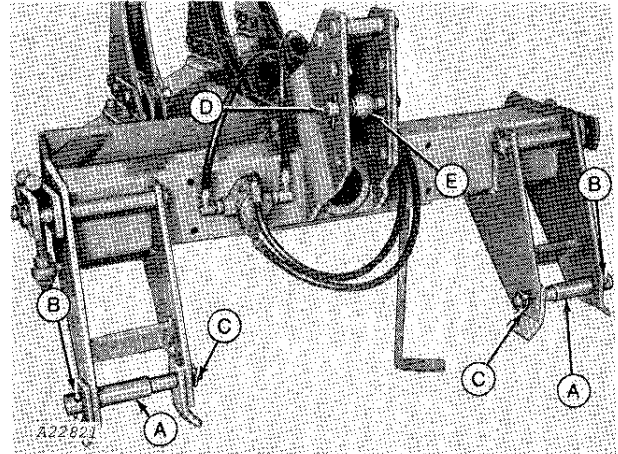
Tire Inflation

Check tire on gauge wheel to be sure it is inflated to 248 kPa (2.5 bar) (36 psi).

Lubrication

Be sure plow has been properly lubricated. See lubrication charts on pages 31-33.

Hitch and Mast Pins for Category 2 3-Point Hitch Setting



5-9

A—Hitch Pins
B—Outer Holes
C—Quik-Lock Pins

D—Smaller Diameter
Mast Pin
E—Hitch Ball

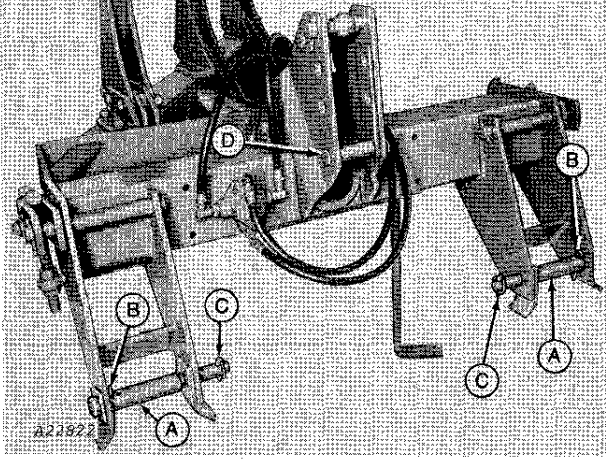
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Insert hitch pins (A) through hitch plates until the outer hole (B) in the wide end of the hitch pin is flush with the outside hitch plate. Insert cotter pin in the outer hole of the hitch pin.

Secure machined end of hitch pin with Quik-Lock pin (C) provided.

Using the smaller diameter mast pin (D) provided, secure hitch ball (E) in the third holes from the top of the mast as shown.

Hitch and Mast Pins For Category 2 Quik-Coupler Hitch Setting



5-9

- A—Hitch Pins
- B—Outer Holes
- C—Quik-Lock Pins
- D—Larger Diameter Mast Pin

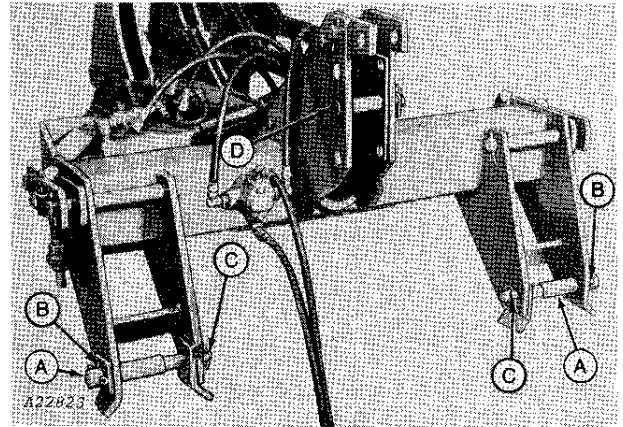
A22822

Insert hitch pins (A) through hitch plates until shoulder of the hitch pin is against the inside hitch plate. Insert cotter pin in outer hole (B) in the hitch pin.

Secure machined end of hitch pin with Quik-Lock pin (C) provided.

Secure larger diameter mast pin (D) in the bottom holes of the mast.

Hitch and Mast Pins For Category 3 Quik-Coupler Hitch Setting



- A—Hitch Pins
- B—Outer Holes
- C—Quik-Lock Pins
- D—Larger Diameter Mast Pin

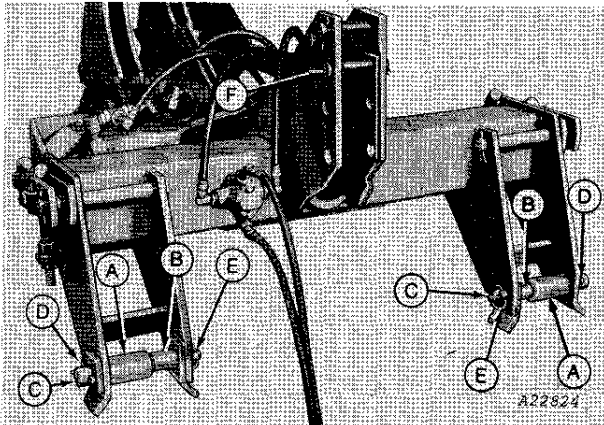
A22823

Insert hitch pins (A) through hitch plates until the outer hole (B) in the wide end of the hitch pin is flush with the outside hitch plate. Insert cotter pin in the outer hole in the hitch pin.

Secure machined end of hitch pin with Quik-Lock pin (C) provided.

Secure larger diameter mast pin (D) in the third hole from the top of the mast.

Hitch and Mast Pins For Category 3N/2 Without Quik-Coupler (4440 Tractors Only)



- A—3-5/8" (92 mm) Bushings (Part No. A36380)
- B—1-5/8" (40 mm) Bushings (Part No. A13907)
- C—Hitch Pins
- D—Outer Holes
- E—Quik-Lock Pins
- F—Larger Diameter Mast Pin

Position bushings (A) and (B) between hitch plates as shown. Insert hitch pins (C) through hitch plates and bushings. Secure hitch pins by inserting cotter pins in outer holes (D).

Secure machined end of hitch pins with Quik-Lock pins (E).

Secure larger diameter mast pin (F) in the second hole from the top of the mast.

PREPARING AND ADJUSTING THE TRACTOR

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

Tractor Drawbar

Set the tractor drawbar in the short high position and pin it one setting from the extreme left side of the support.

Tire Inflation

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

Rear Wheel Setting

Adjust rear wheels of the tractor equidistant from the center line of the tractor to inside edge of tire. The distance between the center line of the tractor and the inside edge of the tire should be set as indicated in the following chart.

Plow Frame Size	Distance From Center Line Of Tractor To Inside Edge of Tire
3-Btm. 18-Inch (450 mm)	32" (815 mm)
4-Btm. 16-Inch (400 mm)	30" (760 mm)
4-Btm. 18-Inch (450 mm)	32" (815 mm)

Dimensions given in above chart are for average conditions. If soil conditions cause plow to overcut, rear wheel settings up to 2 inches (50 mm) narrower may give better control.

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