

30 INTEGRAL PLOWS



OPERATORS MANUAL 30 INTEGRAL PLOWS

OMA28283 J7 English

**PLOW & PLANTER WORKS
OMA28283 J7**

LITHO IN THE U.S.A.
ENGLISH





To the Purchaser



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 (R.H.) and left-hand (L.H.) references are determined by standing at the rear of the plow and facing the direction of forward travel.

Record your plow serial number in the space provided on page 31. 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 which you should have received from your dealer when you purchased the plow.

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.

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. Read "Contents" to learn where each section is located.

30 INTEGRAL PLOW

TO THE DEALER

Predelivery service is the service John Deere recommends that a dealer perform on a machine before delivering it to a customer. This includes assembly, lubrication, adjustments, and tests. The service assures that the machine will be delivered in good condition to the customer and that the customer will be fully satisfied with its performance right from the start.

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.

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.

- ☐ Inspect to be sure nuts on all bolts have been tightened and all cotter pins spread. See bolt torque chart on page 27.
- ☐ Paint all unpainted bolts and nuts and any other parts scratched up in shipment.
- ☐ This plow 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 _____

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 plow 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 lubrication as directed in the operator's manual.
- ☐ Tell the customer all about safety precautions that must be observed while using this plow.
- ☐ Give the operator's manual to the customer and explain all operating adjustment.
- ☐ To the best of my knowledge this machine has been delivered ready for field use and customer has been fully informed as to proper care and operation.

(Date Delivered)

(Signature of Delivery Person)



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Safety Suggestions



CAUTION: Improper use of the plow can result in personal injury. Please read and understand all safe operation rules before using the plow.

OPERATION

For tractor stability and operator safety, tractor front end weights and/or liquid ballast in the front tires may be required. See page 9.

Do not attempt to adjust the plow while it is in motion.

When detaching the plow from the tractor, block or support the plow frame to prevent the plow from tipping.

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

Never ride or permit others to ride on the plow.

Stand clear of plow when raising and lowering.

Do not allow children to operate tractor and plow; nor adults without proper instruction.

Keep children and pets a safe distance away.

Follow all safety precautions stated in your tractor operator's manual.

If spray can paint is used, be careful when discarding empty can. Do not incinerate or puncture can.

TRANSPORTING

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

Reduce speed when traveling over rough or uneven ground.

Always use a trailer to transport the tractor and plow long distances.

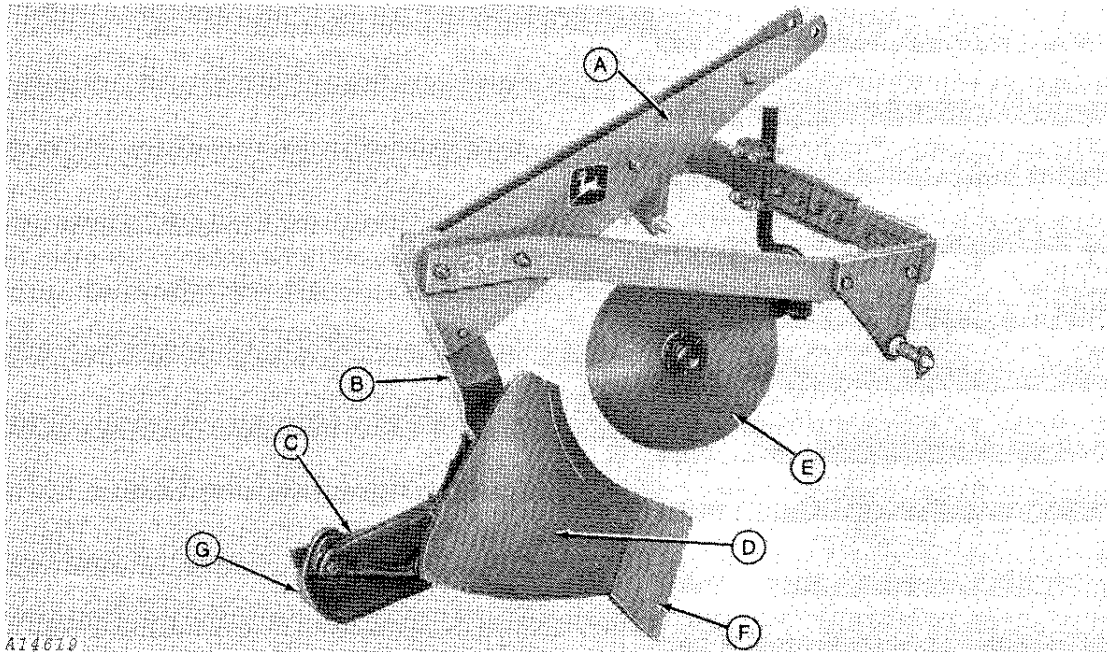
Be certain sway chains are adjusted to prevent excessive side sway when transporting the plow. Adjust length of chain with turnbuckle.



Identification

3

3



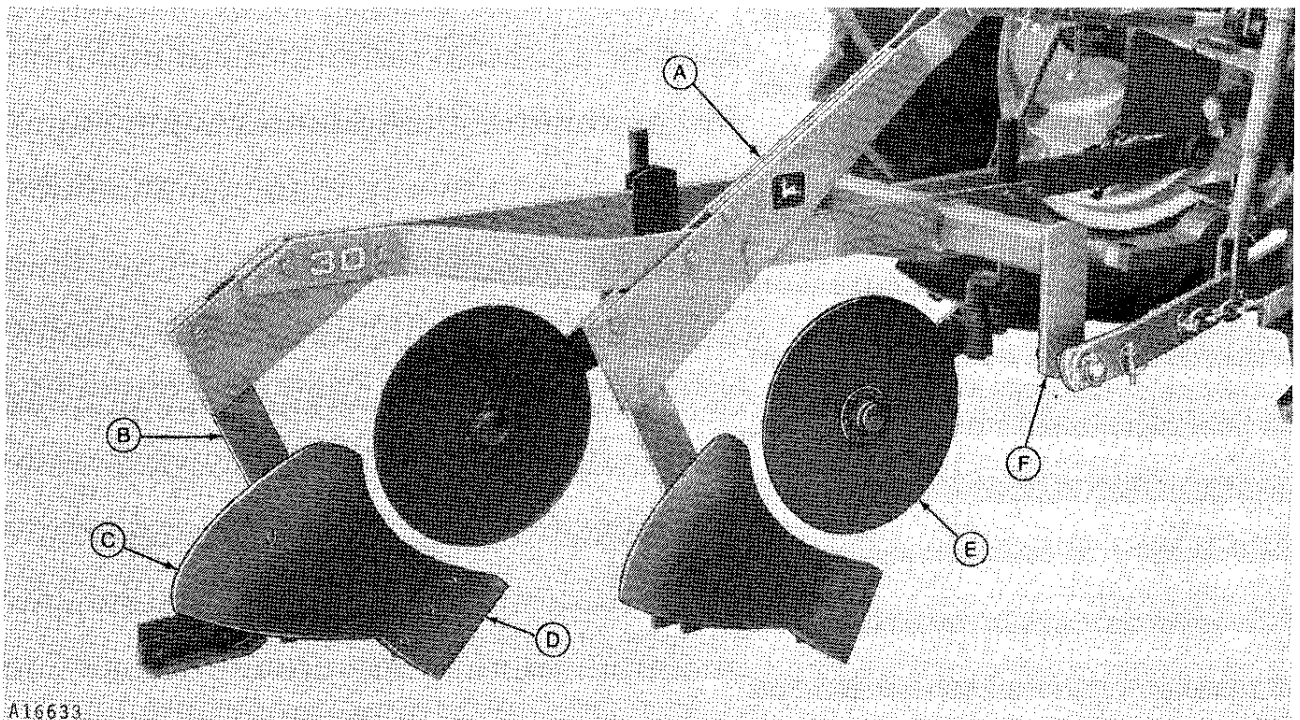
A—Mast
B—Standard

C—Landside
D—Moldboard

E—Coulter
F—Share

G—Adjustable Heel

John Deere 30 One-Bottom Integral Moldboard Plow



A—Mast
B—Shear Bolt Standard

C—Moldboard
D—Share

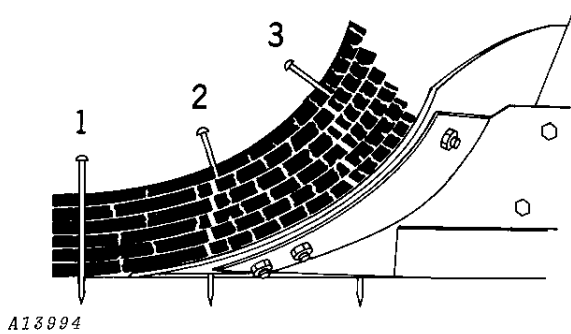
E—Coulter
F—Hitch Crossbar

John Deere 30 Two-Bottom Integral Moldboard Plow



Description

GENERAL



4-8

The purpose of the moldboard plow is to turn and break up the soil, admitting air, light, and moisture and to cover surface vegetation completely. Mixed with the soil, the decaying plants provide food for the subsequent crop.

The principle of the pulverizing effect of the moldboard plow is shown in the illustration at left.

As the soil moves up the curved surface of the moldboard, it is progressively sheared and pulverized as illustrated by the pins 1, 2 and 3.

IMPORTANCE OF THE BOTTOM

No matter how well a plow may be built, proper care of the bottom is a **must** for good performance. If the bottom fails to scour and turn the soil properly, the seedbed will be uneven and lumpy, resulting in lower yields.

Unnecessary delays at plowing time are often caused by a bottom that will not scour properly. The trouble is usually caused by improper adjustment of the plow, or from insufficient care of the bottom.

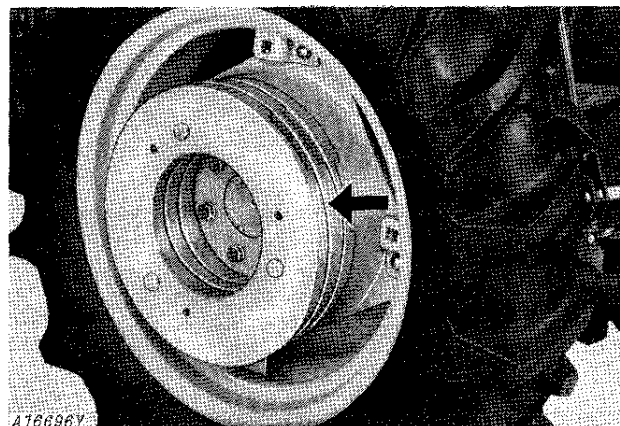
Protect the face of the moldboard and share from rust whenever the plow is not in use (even overnight) by applying a light coating of oil or grease. When storing the plow for the season, apply a good rust preventive such as John Deere Plow Bottom Soft Black Paint. A well cared for plow bottom will help insure good scouring and better performance.

Be sure the tractor and plow are adjusted properly. Before going to the field, check plow coulter and land-side settings; initial settings are given under "Preparing the Plow" on page 13. Check tractor hitch link lengths; starting point settings are given on page 11. Make final adjustments in the field as described on pages 23-25.

PLOWING TERMS

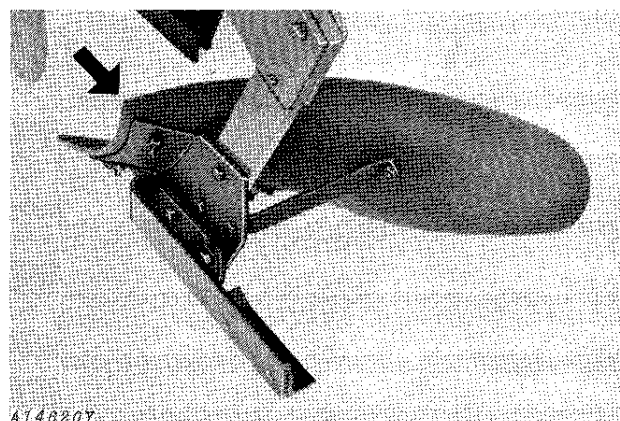
The following list of definitions is provided to help familiarize you with terms common to plowing.

Ballast - material added for increasing weight at front or rear of tractor (for example, calcium chloride solution in tires or cast iron weights).

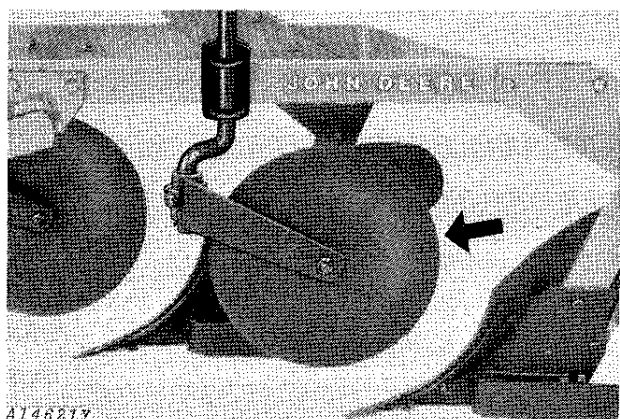


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Bottom - the ground turning portion of a plow, comprised of the moldboard, share, shin, landside, frog, and other related parts.

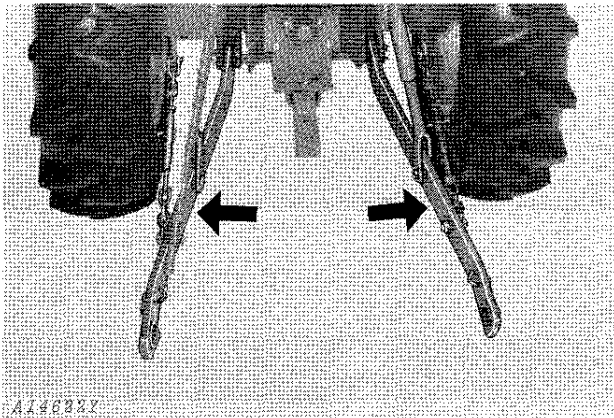


Coulter - The sharp disk attached to a plow frame used to cut the trash and sod ahead of the bottom.



Continued on page 6.

6 Description

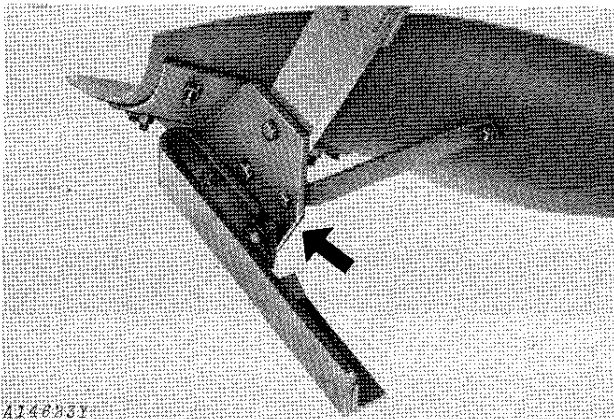


Crowding - a characteristic of an improperly adjusted plow which causes the plow to pull to the right or to the left.

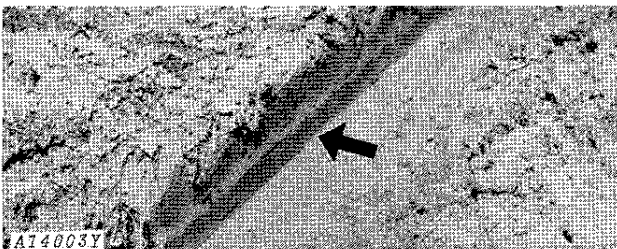
Draft - the pull or load imposed upon a tractor by a plow or other similar ground engaging tool.

Draft Links - the two lower hitch links of a tractor three-point hitch which bear the pulling load.

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Frog - the basic part of a plow bottom to which the moldboard, landside and share are attached.



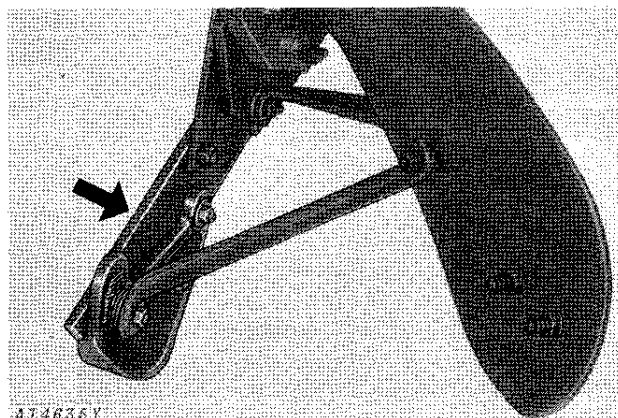
Furrow - the trench made by the movement of the plow bottom in the ground.

Furrow Wall - the flat, vertical earthen surface on the left-hand side of the trench left by the plow bottom.

Heel, Adjustable - the adjustable part on the rear of the landside that gauges the depth of the plow.

Land Polish - the bright metallic luster on a plow bottom from the scouring or cleaning action of the soil.

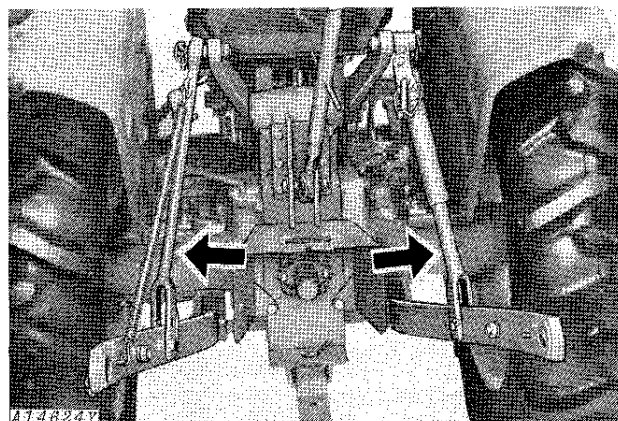
Landside - that part of the plow bottom which slides along the face of the furrow wall and guides the bottom in the furrow.



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(One-Bottom Plow Illustrated)

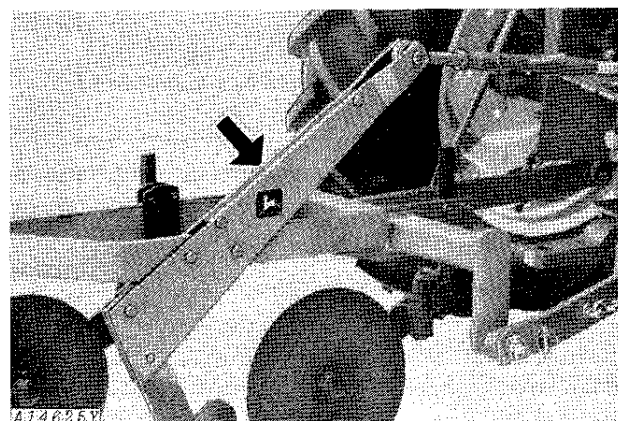
Lift Links - the adjustable links in a tractor three-point hitch which connect the draft links to the three-point hitch lift arms.



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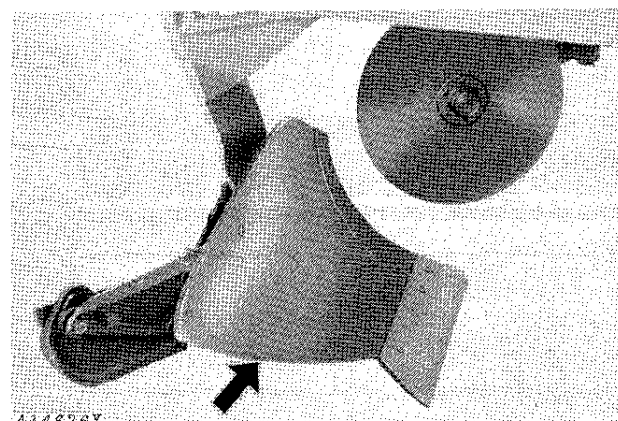
Mast - the upper portion of the plow frame which connects to the center link of a tractor three-point hitch.



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(Two-Bottom Plow Illustrated)

Moldboard - the curved portion of the plow bottom which turns the soil.



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Continued on page 8

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