

2700 SEMI-INTEGRAL MOLDBOARD PLOW



OPERATORS MANUAL 2700 SEMI-INTEGRAL MOLDBOARD PLOW


OMA44265 J1 English

**PLOW & PLANTER WORKS
OMA44265 J1**

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 plow will travel when in use.




This plow is of metric design.

For your convenience, most specifications are given in metric measurement with the customary U.S. measurement following.

Some specifications cannot be converted. These appear in metric only.

Most hardware is metric. Specified metric hardware must be used for replacement.

 **CAUTION: Use only metric tools. Other tools may not fit properly. They may slip and cause injury.**

Record your plow serial number in the space provided on page 76. Your dealer needs this information to give you prompt, efficient service.

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



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Safety

TRANSPORT SAFELY

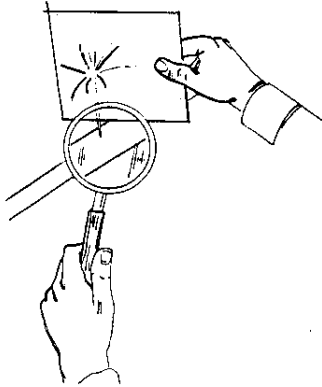
2-4

While transporting the plow on a public road, install transport safety locks and follow safety instructions outlined under "Transporting."

Use care when transporting across rough ground.

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

AVOID HIGH PRESSURE LEAKS



H35336

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.

MOUNT TIRES SAFELY

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.

UNAUTHORIZED MACHINE MODIFICATIONS

Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.

OPERATE SAFELY

Never ride or permit others to ride on the plow.

Allow the tail wheel to clear the furrow before making sharp turns at end of field.

Stay clear of standards while plowing.

Stay clear of the reset path if the standards hang in a partially-tripped position from an obstruction or during maintenance.

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

Always use the support stand to support the plow before unhitching from the tractor.

Lower plow to within 50 mm (2 inches) of ground before releasing Quik-Coupler latch handles.

USE PROPER TOOLS ONLY

Use only metric tools on metric hardware. Other tools may not fit properly and may slip and cause injury.

LUBRICATE THE PLOW SAFELY

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

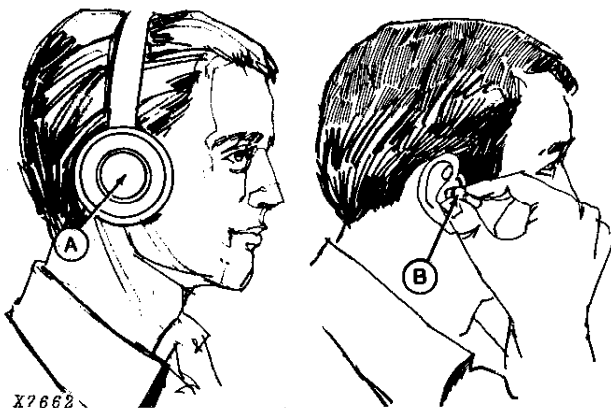
DISPOSE OF SPRAY CANS SAFELY

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

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.



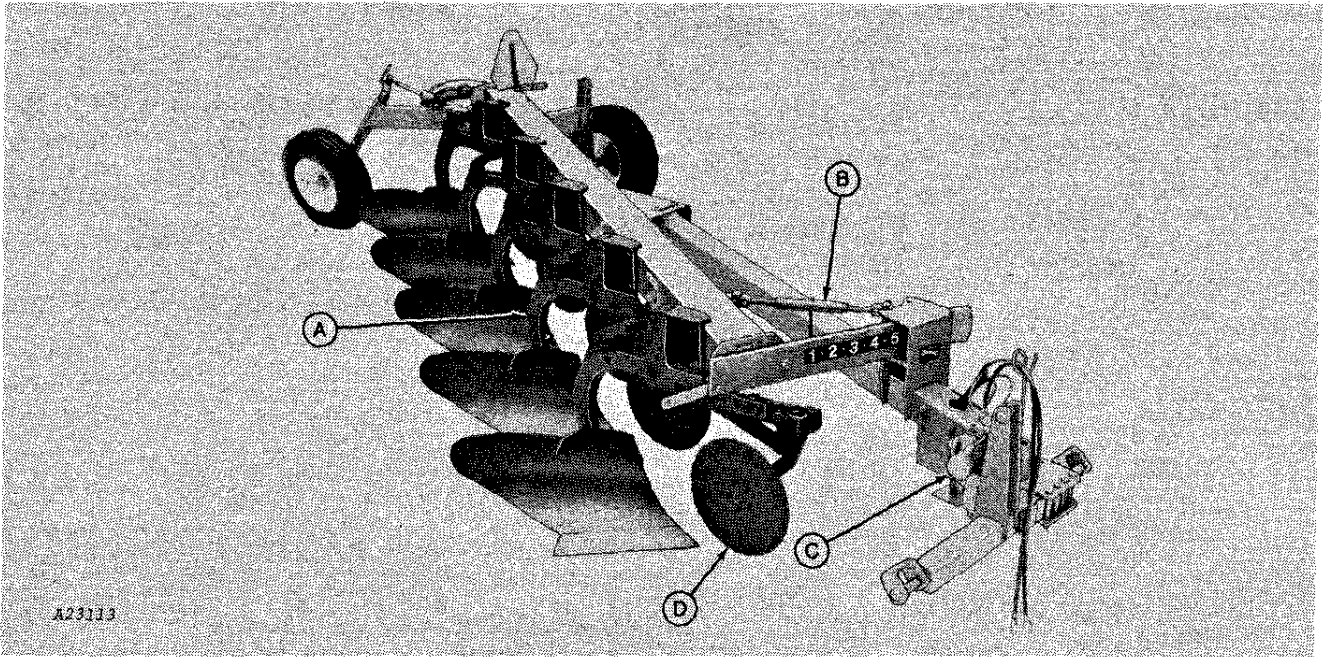
A—Earmuffs
B—Earplugs

X7662

2-4



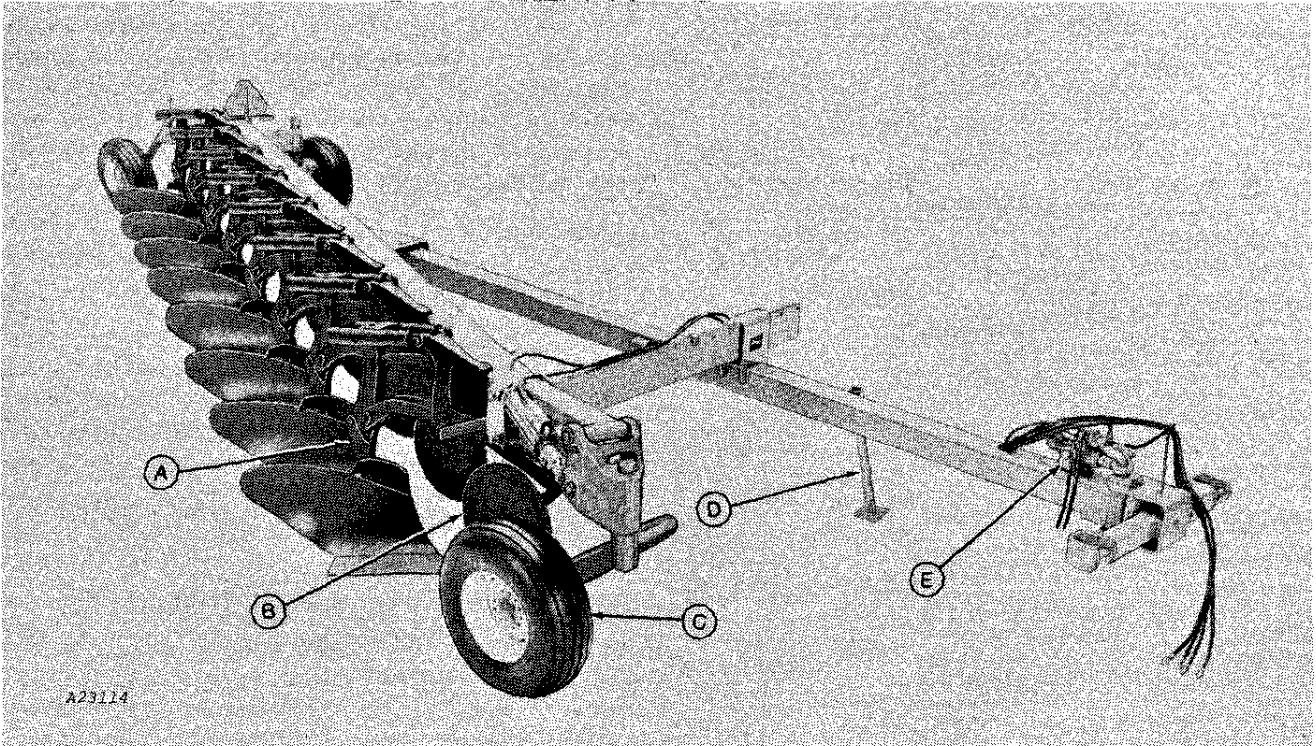
Identification Views



A23113

A—Safety-Trip Standard B—Landing Turnbuckle C—Steering Control Cylinder D—Cushion Coulters

John Deere 2700 5-Bottom Semi-Integral Moldboard Plow With Safety-Trip Standards



A23114

A—Spring-Reset Standard B—Cushion Coulters C—Front Furrow Wheel D—Stand E—Steering Control Cylinder

John Deere 2700 On-Land 8-Bottom Semi-Integral Moldboard Plow with Spring-Reset Standards



Preparing The Tractor

TIRE INFLATION

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

TRACTOR DRAWBAR

Set tractor drawbar in the short, high position.

TRACTOR WHEEL SETTING

Tractor Wheel in Furrow (In-Furrow Plows)

Set the rear wheels at 760 mm (30 inches) from the center line of the tractor to the inside of the tire.

Other tractor wheel settings can be used but the hitch crossbar must be adjusted accordingly. Moving the hitch crossbar one setting equals 75 mm (3 inches) difference in wheel tread.

If, for example, the tractor wheel setting is approximately 840 mm (33 inches), move the hitch crossbar one setting to the left. If the tractor wheel setting is approximately 685 mm (27 inches), move the hitch crossbar one setting to the right. For any wheel settings in between, move the hitch crossbar one setting as desired.

On wide-front-end tractors, to get proper field maneuverability when plowing with tractor wheel in furrow, set the front wheels to conform to the rear-wheel setting.

When contour plowing in the furrow, set the front wheels at least 50 mm (2 inches) wider than rear wheels. Measure dimension from center of tractor to inside edge of tire.

Tractor Wheels on the Land (On-Land Plows)

Set wheels from the center line of the tractor.

When operating the tractor with all wheels on the land, set the wheels (depending on size of plow) to leave at least 100 mm (4 inches) between the furrow wall and the outside edge of the right tractor tire.

NOTE: If tractor is equipped with dual rear wheels, set wheels in narrowest available setting. See tractor operator's manual.

BALLAST

Front End Weighting (2-Wheel Drive Tractors)

The amount of front weight required is determined by field operating conditions and the gear in which the tractor is operated.

⚠ CAUTION: When the tractor is operated in lower gears, under 6.5 km/h (4 mph), maximum permissible front-end weighting is necessary to avoid front-end tip-up.

Drive Wheel Weighting

Use wheel weights to eliminate excessive wheel slippage and for stability in rough or hillside fields. However, weights should not be added to the point where all slippage is eliminated. To do so hinders maximum performance of the tractor. See tractor operator's manual.

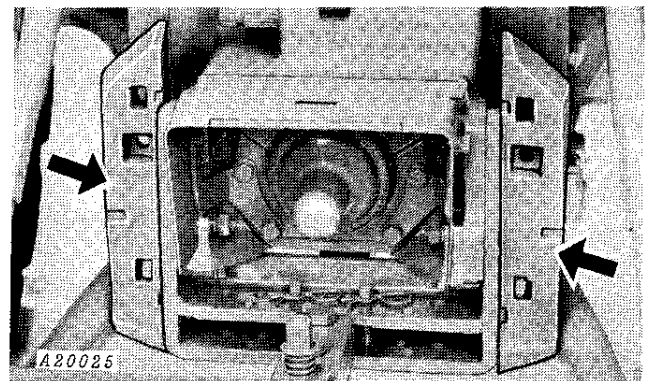
6-10

SWAY BLOCKS

When using two-wheel drive tractors, the sway blocks should be set to eliminate side sway while in the working position.

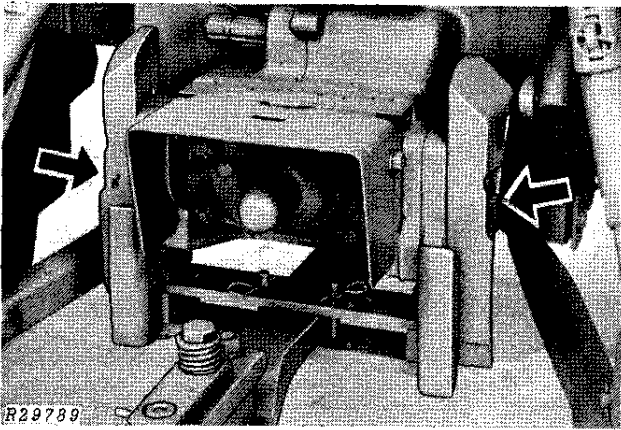
When using an articulated (i.e. 8440, 8450, 8640, 8650 or 8850) tractor, the sway blocks should be positioned for limited sway to prevent plow damage while in the working position. See your tractor operator's manual.

On 2640, 2840, 2940, 4040 and 4240 Tractors, mount the sway blocks (bold arrows) in the lower position.



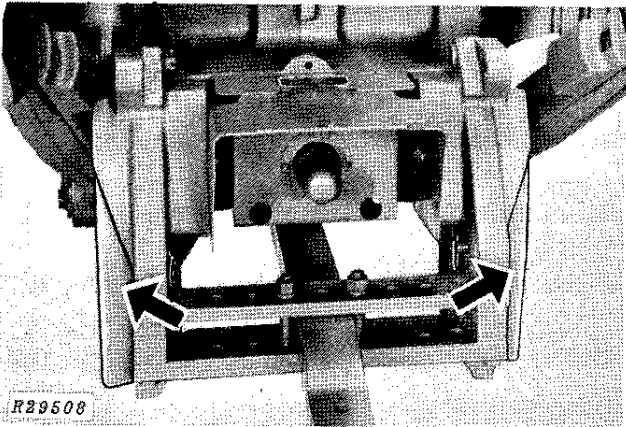
4240 Tractor Illustrated

8 Preparing The Tractor

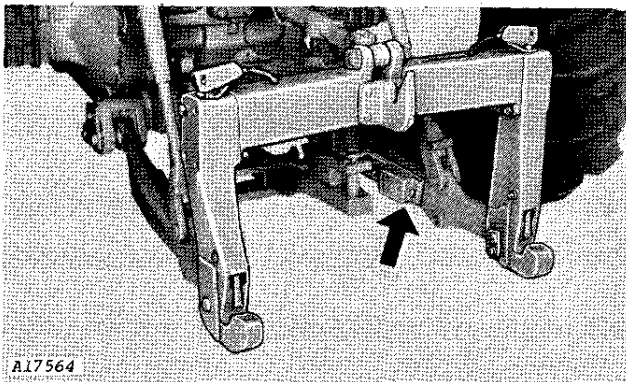


On 4440 Tractors, mount the sway blocks (bold arrows) in the lower position.

6-10

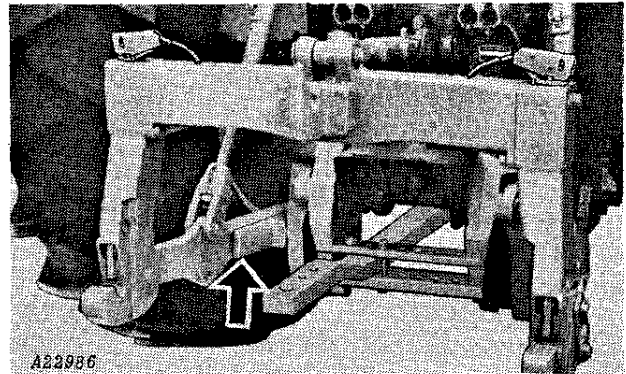


On 4640 and 4840 Tractors, mount the sway blocks (bold arrows) in the lower position. Set the draft link bumpers with the thick side forward.



On 8440, 8450, 8640 and 8650 tractors set for Category 3N position, set the draft link bumpers (bold arrow) with the thick side rearward to permit limited sway.

On 8440, 8450, 8640 and 8650 Tractors set for Category 3 position, or 8850 Tractors with Category 4 position, set draft link bumpers (bold arrow) with the thick side to the front.



LINK LENGTHS

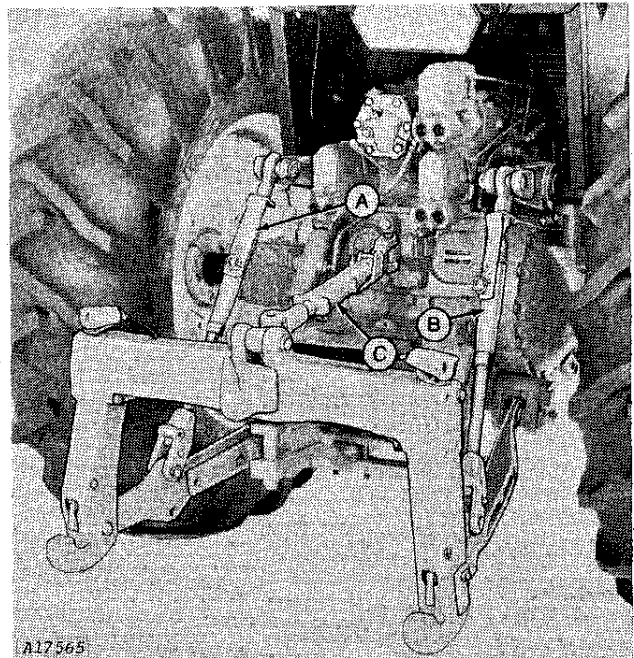
6-10

In-Furrow

Left Lift Link (A) — Set approximately in the middle.

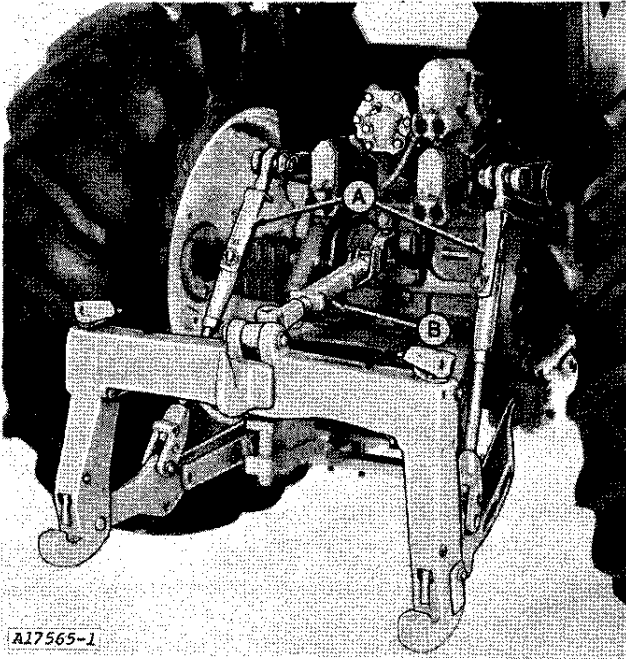
Right Lift Link (B) — Set 25 mm (1-in.) shorter than left lift link.

Center Link (C) — Adjust center link so plow mast is vertical to slightly rearward in plowing position.



A—Left Lift Link
B—Right Lift Link
C—Center Link

10 Preparing The Tractor



6-10

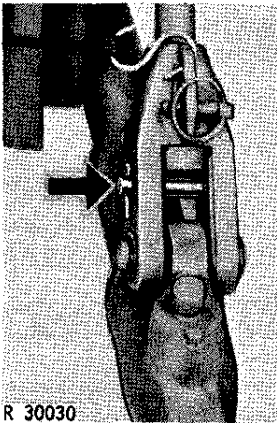
On-Land

Left and Right Lift Links (A) — Set equal length.

Center Link (B) — Set at minimum length.

A—Lift Links
B—Center Link

FLOAT PINS



Set the float pins (bold arrow) in the no-float position.

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