2700
Semi-Integral
Moldboard Plow

JOHN DEERE

OPERATORS MANUAL

2700 Semi-Integral
Moldboard Plow

OMA50410 Issue D5 English

John Deere Plow & Planter Works
OMA50410 Issue D5

LITHO IN 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 the identification number(s) in the space provided following Specifications. Accurately record all of the characters because (should the product be stolen) tracing is sometimes through a computer match of letters and numbers. Also, your dealer needs this information when ordering parts. If you carry your operator's manual on the machine for reference, be sure to also record the identification number(s) on a separate sheet of paper and file it in a secure place not on the machine so you will still have a record in case the machine is stolen.

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.

Contents

TRANSPORT SAFELY

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 FLUIDS

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Escaping fluid under pressure can penetrate the skin causing serious injury. Relieve pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure. Keep hands and body away from pinholes and nozzles which eject fluids under high pressure. Use a piece of cardboard or paper to search for leaks. Do not use your hand.

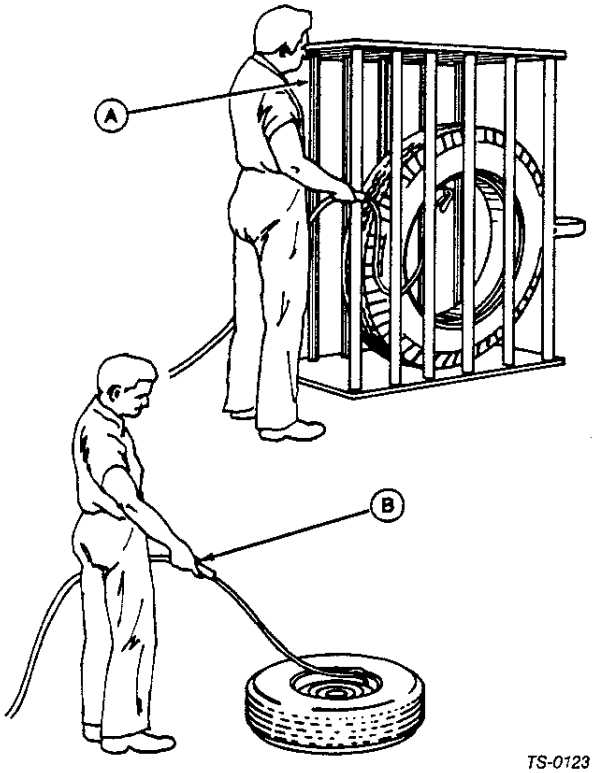
If ANY fluid is injected into the skin, it must be surgically removed within a few hours by a doctor familiar with this type injury or gangrene may result.

SERVICE 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 repair service.

When sealing tire beads on rims, never exceed 35 psi (241 kPa) (2.4 bar) 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 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.



TS-0123

A — Use a safety cage if available.
B — Do not stand over tire. Use a clip-on chuck and extension hose.

DO NOT MODIFY PLOW

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 in.) of ground before releasing quick-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.

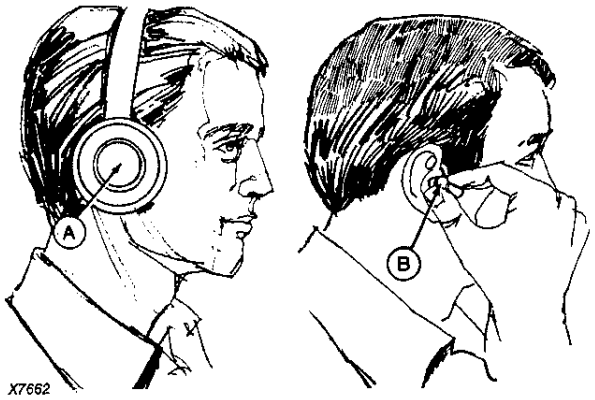
LUBRICATE THE PLOW SAFELY

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

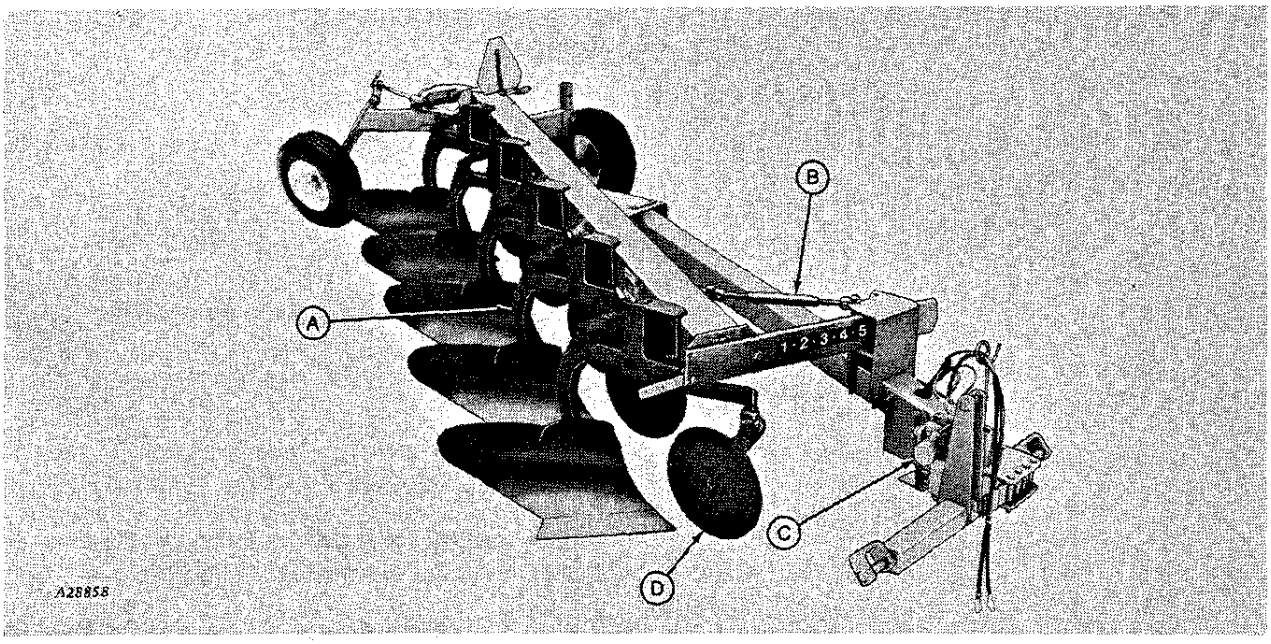


Prolonged exposure to loud noise can cause impairment or loss of hearing.

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

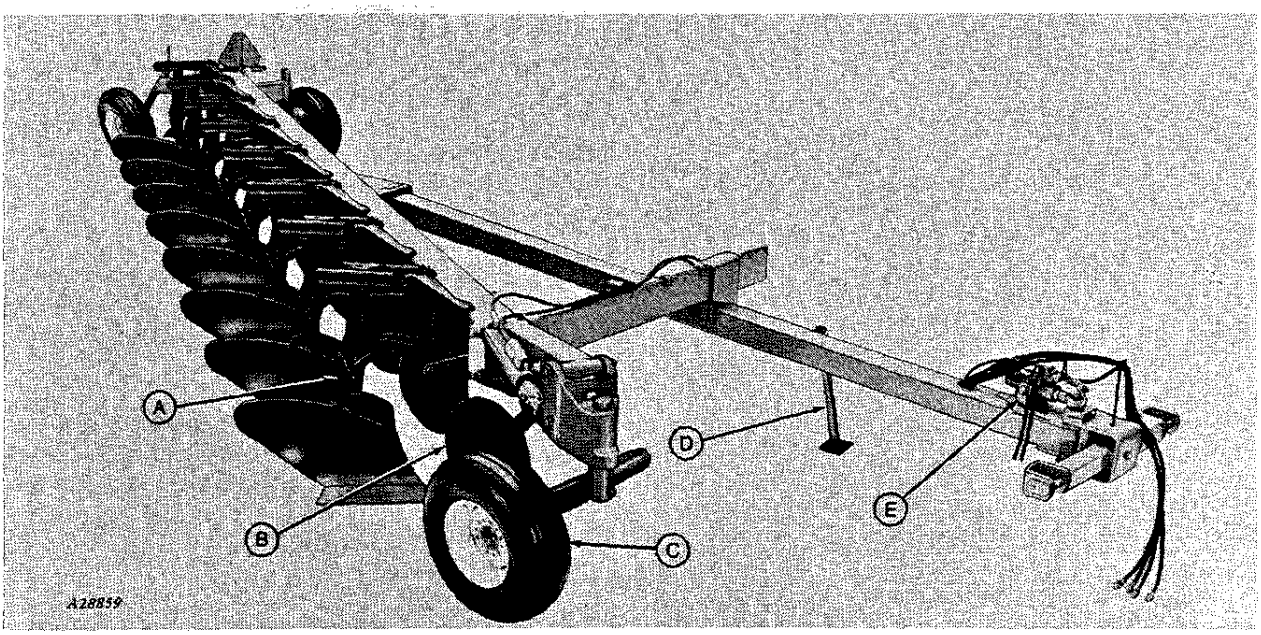
A — Earmuffs
B — Earplugs

Identification Views



A — Safety-Trip Standard **B — Landing Turnbuckle** **C — Steering Control Cylinder** **D — Shear Bolt Coulter**

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



A — Spring-Reset Standard **B — Shear Bolt Coulter** **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 in.) 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 in.) difference in wheel tread. For in-furrow plows, see page 13. For on-land plows, see pages 17-18.

If, for example, the tractor wheel setting is approximately 840 mm (33 in.), move the hitch crossbar one setting to the left. If the tractor wheel setting is approximately 685 mm (27 in.), 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 in.) 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 in.) 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

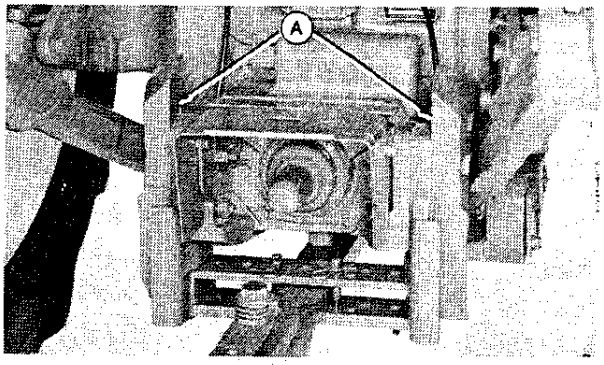
Use wheel weights to eliminate excessive wheel slippage and for stability in rough or hillside fields. However, weights should not be added to the point where all slippage is eliminated. To do so hinders maximum performance of the tractor. See tractor operator's manual.

SWAY BLOCKS

Two-Wheel Drive Tractors

Install sway blocks (A) in the lower position to eliminate side sway while in the working position.

See your tractor operator's manual for instructions on positioning sway blocks.



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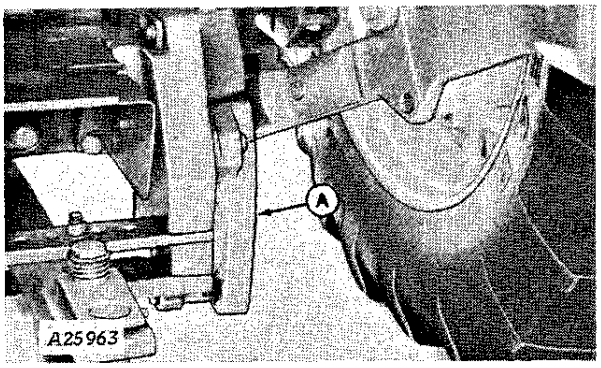


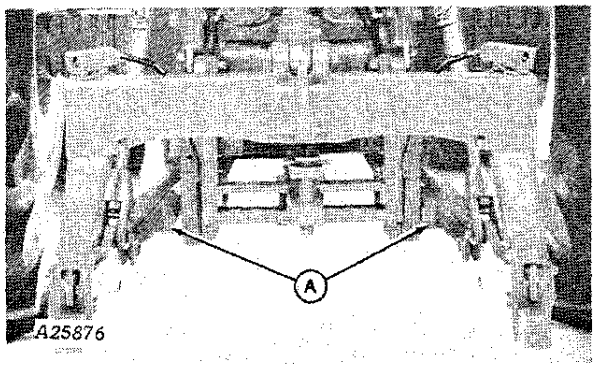
Four-Wheel Drive Tractors

Position sway blocks (A) for limited sway to prevent plow damage while in the working position.

See your tractor operator's manual for instructions on positioning sway blocks.

DRAFT LINK BUMPERS

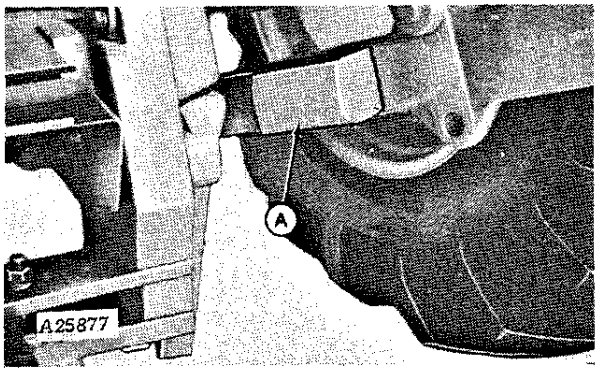
6-10



4650 and 4850 Tractors

Position draft link bumpers (A) with thick side forward.

See your tractor operator's manual for instructions on positioning draft link bumpers.



8450 and 8650 Tractors set for Category 3N, 8850 Tractor set for Category 4N

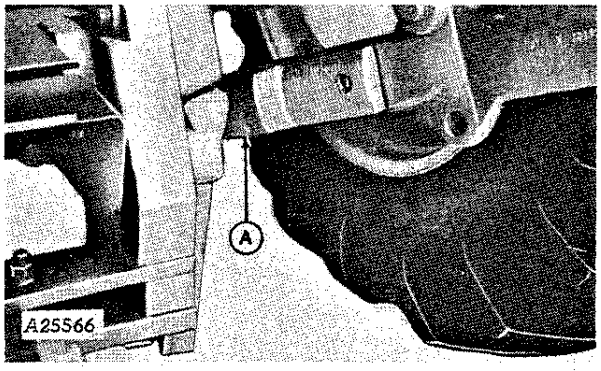
Position draft link bumpers (A) with thick side rearward.

See your tractor operator's manual for instructions on positioning draft link bumpers.

8450 and 8650 Tractors set for Category 3, 8850 Tractor set for Category 4

Set draft link bumpers (A) with thick side to the front.

See your tractor operator's manual for instructions on positioning draft link bumpers.



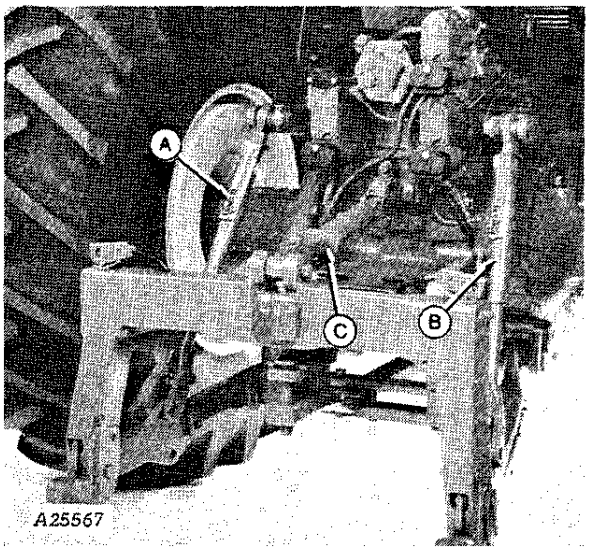
LIFT LINKS

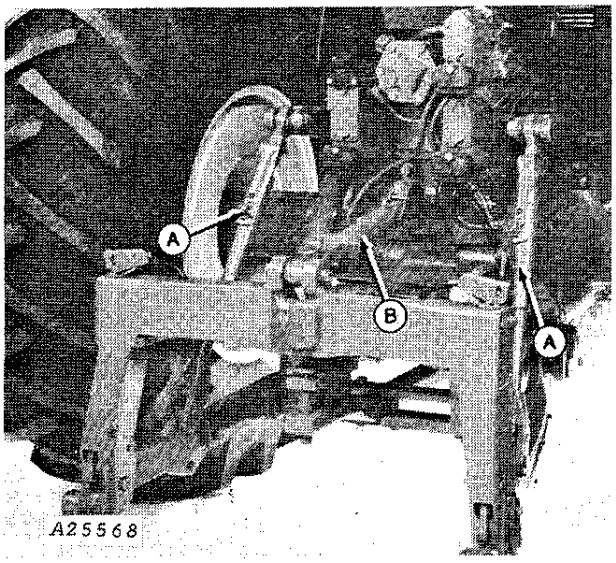
In-Furrow

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.





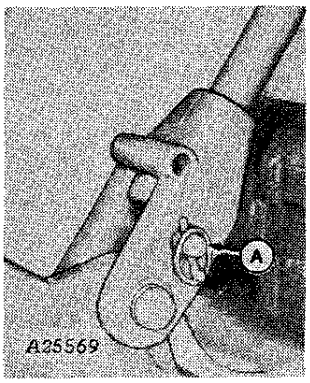
On-Land

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 (A) in the no-float position.

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