

3700 Drawn Flex Plow



OPERATORS MANUAL

3700 Drawn
Flex Plow

OMA49086 Issue J4 English

John Deere Plow & Planter Works
OMA49086 Issue J4

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ENGLISH

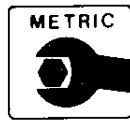


Introduction



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.



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Safety

2-4

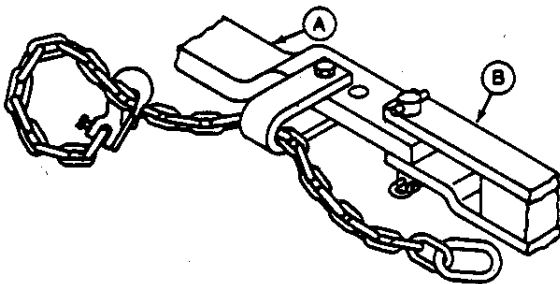
TRANSPORT SAFELY

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.

Use of flashing warning lights and turn signals are recommended when towing this equipment on public roads unless prohibited by state or local regulations.

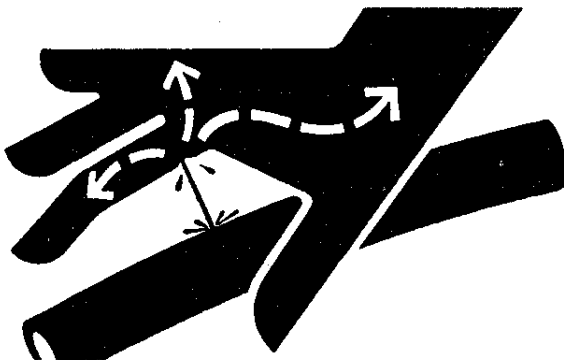
USE A SAFETY CHAIN



TS163

A safety chain will help control drawn equipment (B) should it accidentally separate from the drawbar (A) while transporting. Using the appropriate adapter parts, attach the chain to the tractor drawbar support or other specified anchor location. Provide only enough slack in the chain to permit turning. See your John Deere dealer for a chain with a strength rating equal to or greater than the gross weight of the towed machine.

AVOID HIGH-PRESSURE FLUIDS



X9811

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.

OPERATE THE PLOW SAFELY

Never ride or permit others to ride on the plow.

Allow the tailwheel to clear the furrow before making 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 jack to support the plow before unhitching from the tractor.

2-4

USE PROPER TOOLS ONLY

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

LUBRICATE THE PLOW SAFELY

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

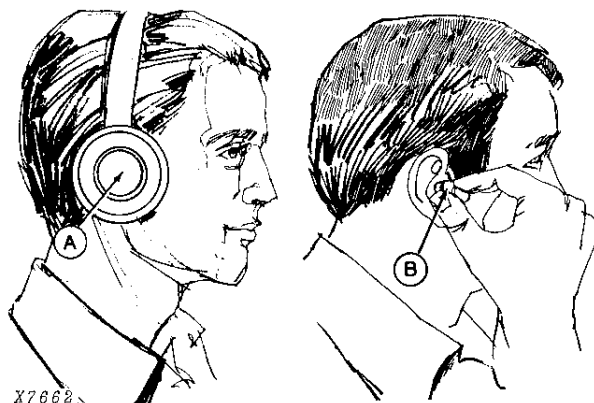
DO NOT MODIFY THE PLOW

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

PROTECT AGAINST NOISE

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

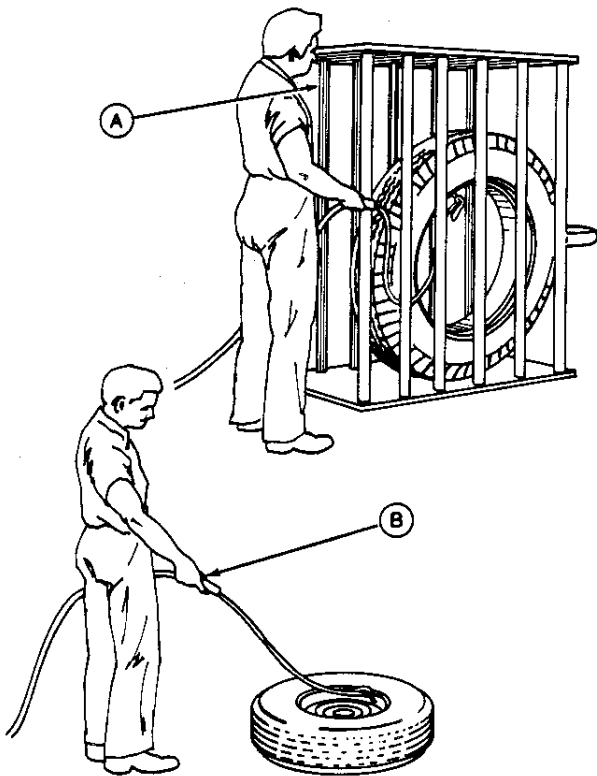
Wear a suitable hearing protective device such as earmuffs (A) or earplugs (B) to protect against objectionable or uncomfortable loud noises.



X7662

X7662

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 (240 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.

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

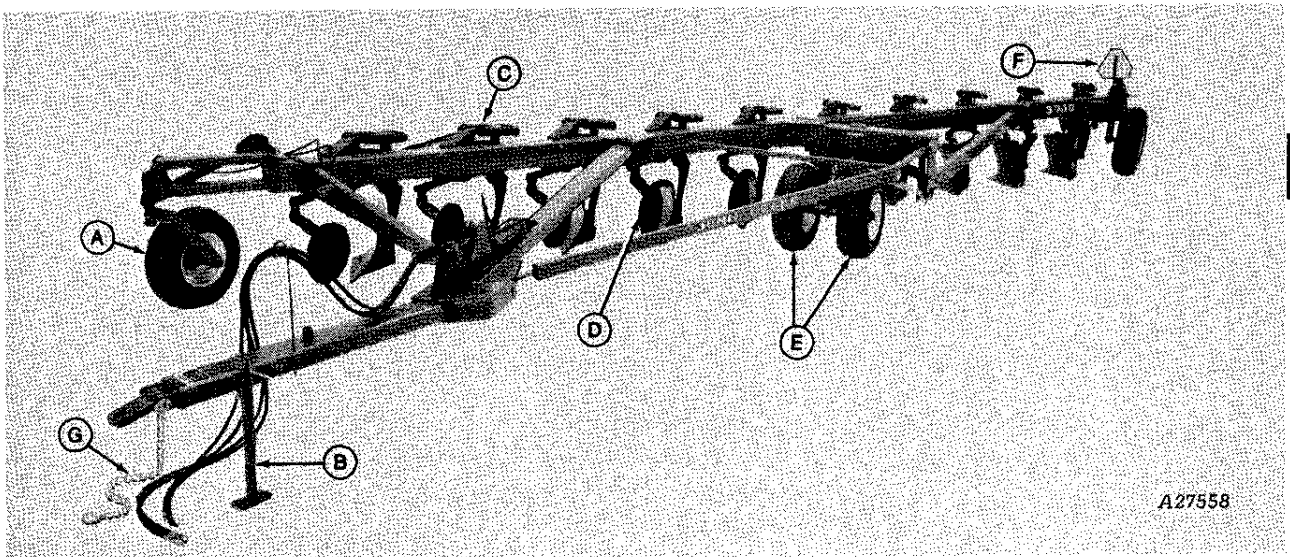
TS-0123

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.



Identification View



A27558

A - Front Furrow Wheel
B - Jack

C - Spring-Reset Standard
D - Shear-Bolt Coulters
E - Land Wheels

F - Slow Moving Vehicle (SMV) Emblem
G - Safety Chain

3700 10 Bottom Drawn Flex Plow



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. Allow drawbar to swing at least one hole on each side of the drawbar for working position. When transporting, pin drawbar so it will not swing.

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.

ROCKSHAFT HEIGHT STOP LOCK

If the tractor rockshaft is accidentally lowered with a quick-coupler hitch on the tractor, damage can occur to the plow drawbar when turning the tractor.

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



Preparing the Plow

LUBRICATION

Lubricate the plow. See pages 47-50.

CHECK TIRE INFLATION

9, 10 or 12 Bottom Plows

Inflate 11L x 15 tires to 310 kPa (3.1 bar) (45 psi) of air pressure.

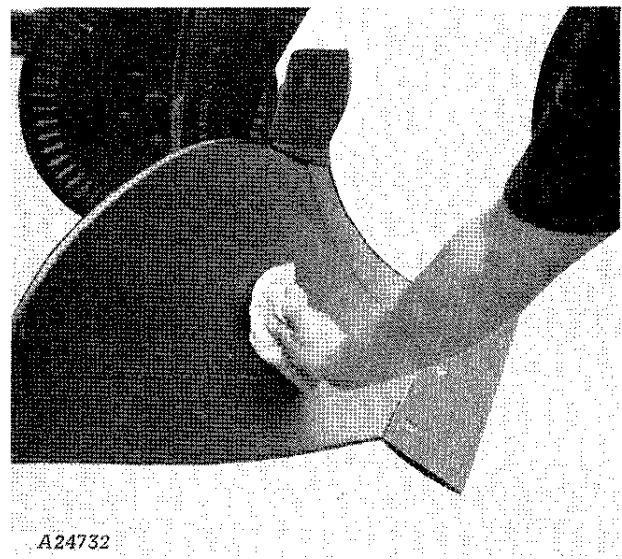
14 or 16 Bottom Plows

Inflate 31 x 13.5 x 15 tires to 200 kPa (2.0 bar) (30 psi) of air pressure. Inflate 11L x 15 gauge wheel tire to 310 kPa (3.1 bar) (45 psi) of air pressure.

7-13

CHECK PLOW BOTTOMS

The plow bottoms have been painted with protective black paint. In soils where the black paint will not wear off, remove with diesel fuel.



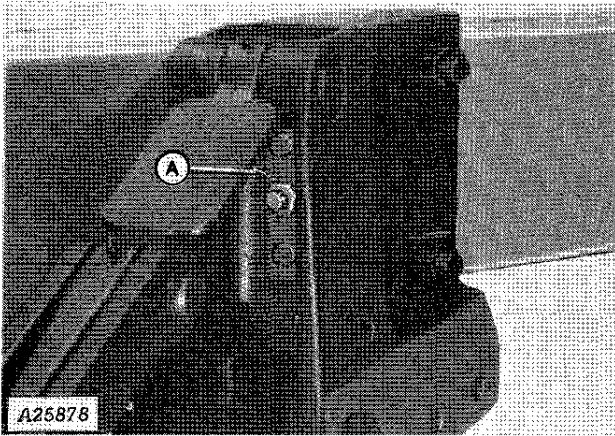
A24732

A24732

CHECK HARDWARE

Before using 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 for loose bolts, screws, and parts when lubricating the plow. Be sure the bolts that hold the plow bottoms to the standards are properly tightened. See bolt torque chart, page 54.

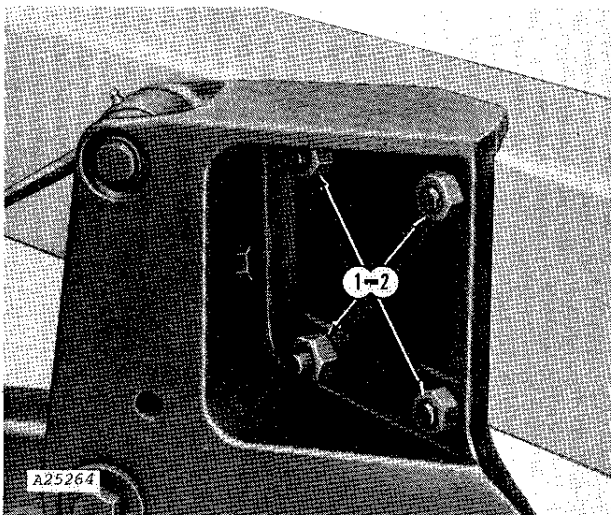
SETTING ADJUSTING WEDGE FOR WIDTH OF CUT



A25878

Adjusting Wedge Location for 450 mm (Approx. 18 in.) Width of Cut or Storage Position

7-13



A25264

The width of cut per bottom is determined by the location of the adjusting wedge (A). The wedge is shipped from the factory in storage position. If the wedge is not used, the width of cut is 450 mm (approx. 18 in.).

To install the adjusting wedge for 400 mm (approx. 16 in.) or 500 mm (approx. 20 in.) width of cut, proceed as follows:

1. Loosen nuts on bolts securing the standards to the frame.
2. Position wedge for desired cutting width (see page 9).

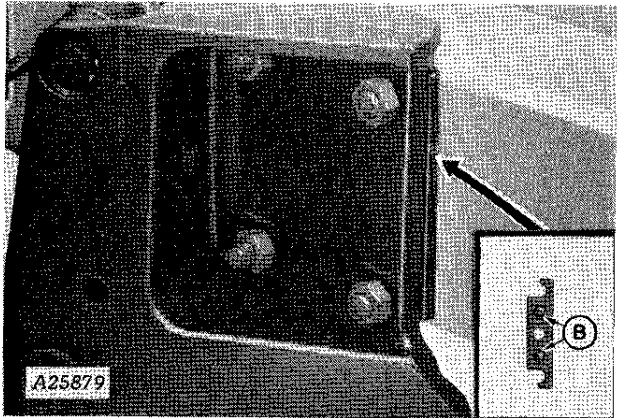
IMPORTANT: When placing adjusting wedge between standard mount and main frame, be sure protrusions (B) fit securely in the indentations on the inside of the standard mount.

Raise rear of standard to remove all slack before tightening mounting bolts.

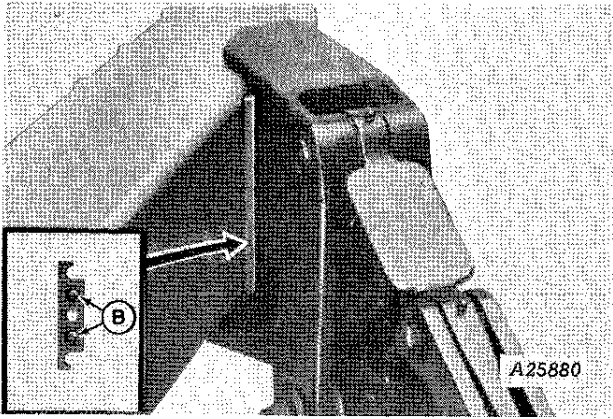
Place torque wrench on bolt head and torque mounting bolts to 340 N·m (250 lb-ft).

Be sure to position wedges on all standards the same.

After wedges are positioned for desired width of cut, position gauge wheel strap (see page 11), adjust tailwheel eyebolt length (see page 11) and secure land wheels in desired position with drilled pin and spring locking pin (see page 10).



*Adjusting Wedge Location for 400 mm (Approx. 16 in.)
Width of Cut*



*Adjusting Wedge Location for 500 mm (Approx. 20 in.)
Width of Cut*

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