# 3700
# DRAWN
# FLEX PLOW

JOHN DEERE

## OPERATORS MANUAL

3700 DRAWN
FLEX PLOW

OMA43384 H1 English

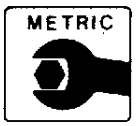
**PLOW & PLANTER WORKS**
**OMA43384 H1**

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.

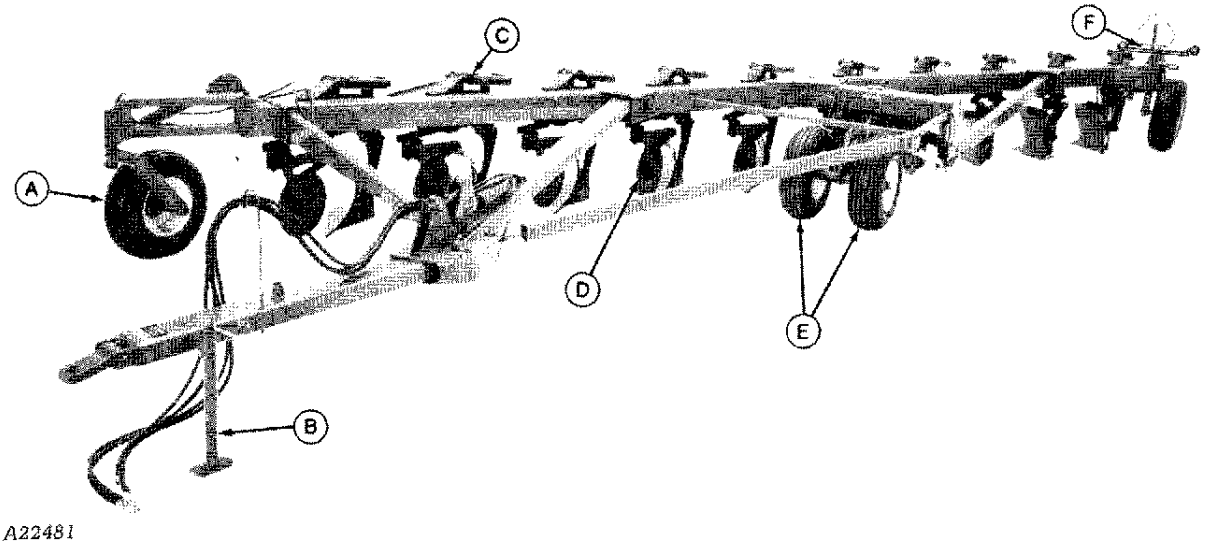
Some specifications cannot be converted. These appear in metric only.

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 54. 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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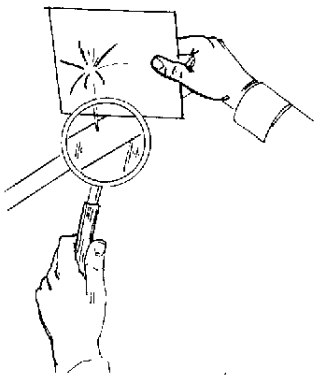
**A - Front Furrow Wheel B - Jack C - Spring-Reset Standard D - Cushion Coulter E - Land Wheels F - Safety Lights**

# Contents



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## 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. An implement safety lighting kit is available from your John Deere dealer.

## Avoid High-Pressure Hydraulic Fluid

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.

## 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.

## 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.

## 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.

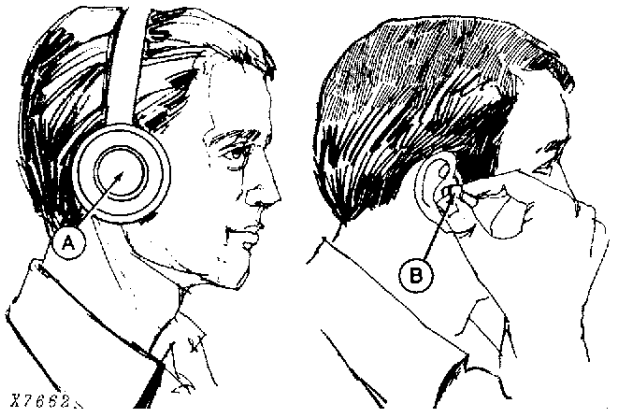
When sealing tire beads on rims, never exceed 35 psi or maximum inflation pressures specified by tire manufacturers for mounting tires. Inflation beyond this maximum pressure may break the bead, or even the rim, with dangerous explosive force. If both beads are not seated when the maximum recommended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

## 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**

# 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.

## BALLAST

### Front End Weighting

Four-Wheel drive tractors do not require any front end ballast for stability. Add front wheel weights as required in the same manner as described in "Rear Wheel Weighting".

### Rear Wheel Weighting

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

## ROCKSHAFT HEIGHT STOP LOCK (8440 and 8640 TRACTORS)

If the tractor rockshaft is accidentally lowered with a Quik-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 40-44.

## TIRE INFLATION



### 10 or 12 Bottom Plows

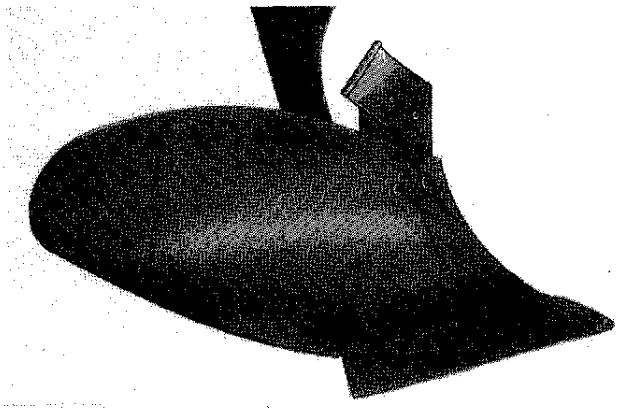
Inflate 11L x 15 tires to 310 kPa (3.1 bar) (45 psi) of air pressure.

### 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.

## 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.



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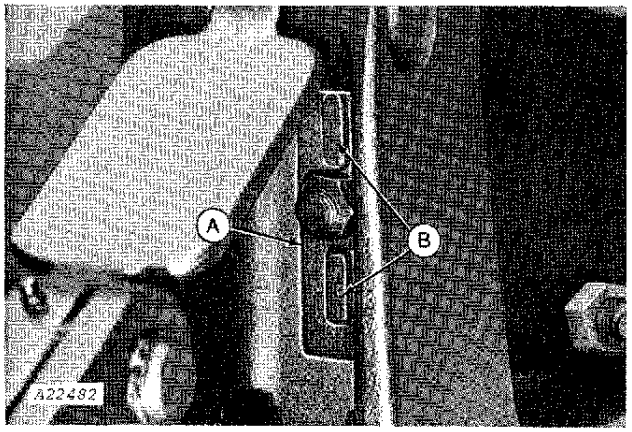
## BOLTS AND SET SCREWS

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 48.

# SETTING ADJUSTING WEDGE FOR WIDTH OF CUT

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

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 500 mm (approx. 20 in.).

**A - Adjusting Wedge**
**B - Protrusions**

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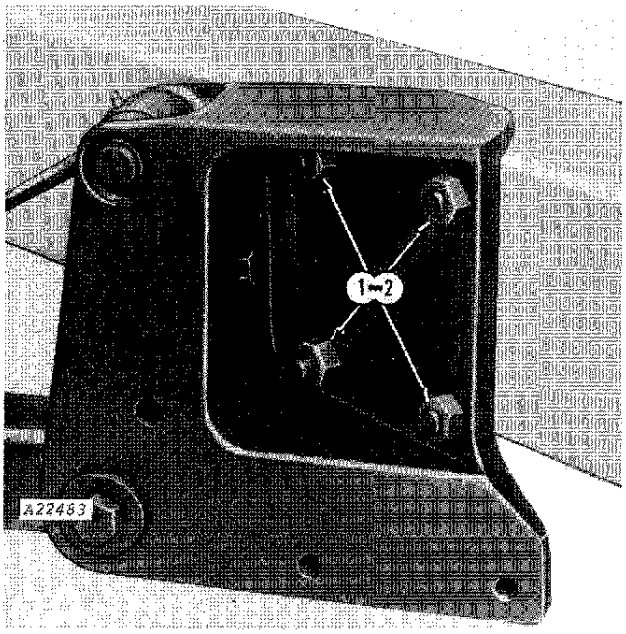


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To install the adjusting wedge for 450 mm (approx. 18 in.) or 550 mm (approx. 22 in.) width of cut, proceed as follows:

1. Loosen nuts on bolts securing the standards to the frame.
2. Position wedge for desired cutting width (see page 7).

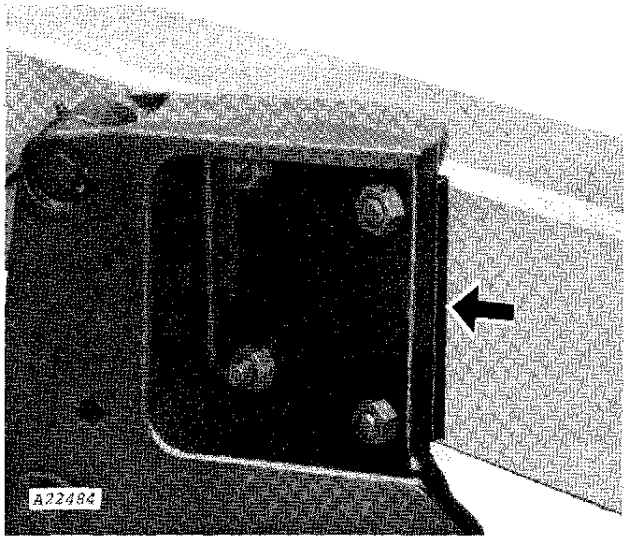
**IMPORTANT: When placing adjusting wedge between standard mount and main frame, be sure protrusions (B) fit securely in the indentations on the inside of the standard mount.**

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

Torque mounting bolts to 340 N•m (250 ft-lbs).

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 9), adjust tailwheel eyebolt length (see page 9) and position land wheel strap (see page 8).

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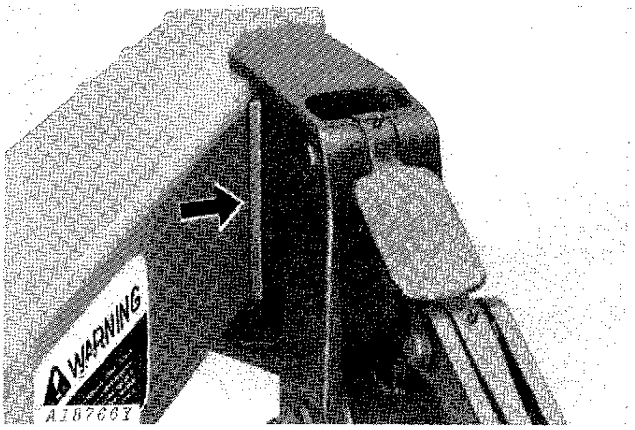
*Adjusting Wedge Location for 450 mm (Approx. 18 in.) Width of Cut*

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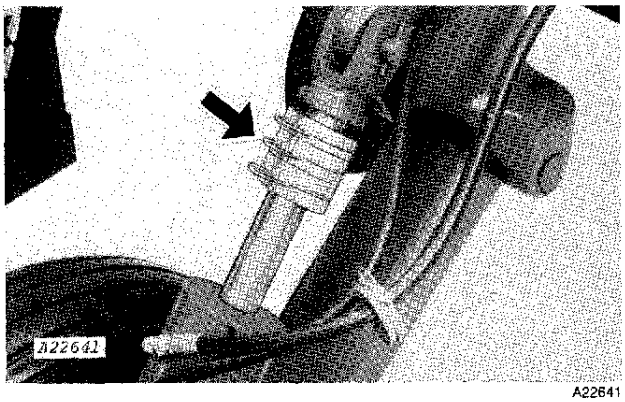
*Adjusting Wedge Location for 550 mm (Approx. 22 in.) Width of Cut*

# SETTING LAND WHEELS

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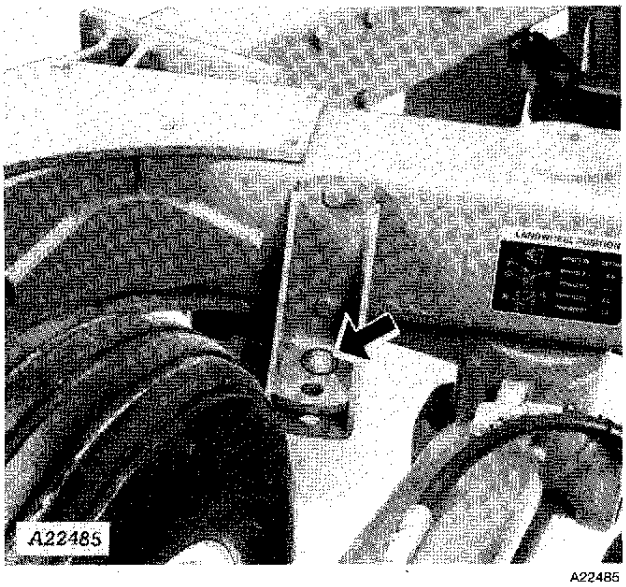
To set the land wheels for desired width of cut, raise the plow and remove depth stops from land wheel hydraulic cylinder rod.

Lower the plow to the ground and retract land wheel hydraulic cylinder completely.



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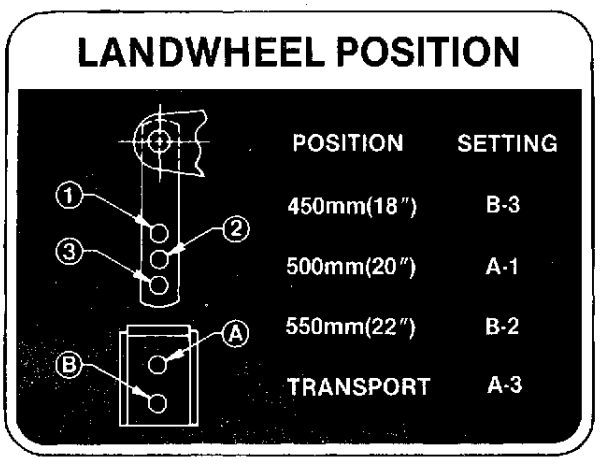
Remove spring locking pin and drilled pin (bold arrow) and move land wheels to desired position (see illustration below left).

Secure wheels with drilled pin and spring locking pin.

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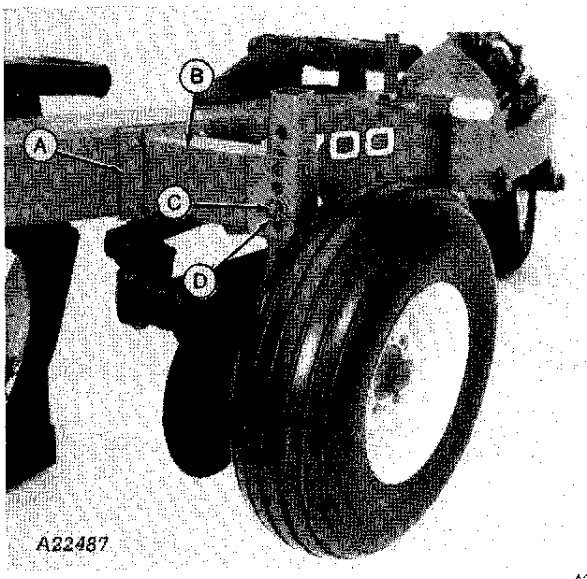
## GAUGE WHEEL

When strap (A) is located as shown at right, the gauge wheel is set for 500 mm (approx. 20 in.) width of cut. For 450 mm (approx. 18 in.) width of cut, place strap on the rear two cap screws between the plow frame and gauge wheel support bracket (B). For 550 mm (approx. 22 in.) width of cut, place strap on front two cap screws between the plow frame and the gauge wheel support bracket.

**IMPORTANT: Whenever the width of cut is changed on the standards, the position of strap (A) must be changed accordingly.**

Remove Quik-Lock pin (D) and drilled pin (C) from gauge wheel axle and raise the gauge wheel as far as possible. Secure the gauge wheel with the drilled pin and Quik-Lock pin. Leave the gauge wheel in the raised position until the plow has been leveled in the field.

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**A - Strap**
**B - Support Bracket**
**C - Drilled Pin**
**D - Quik-Lock Pin**



## SETTING TAILWHEEL EYEBOLT

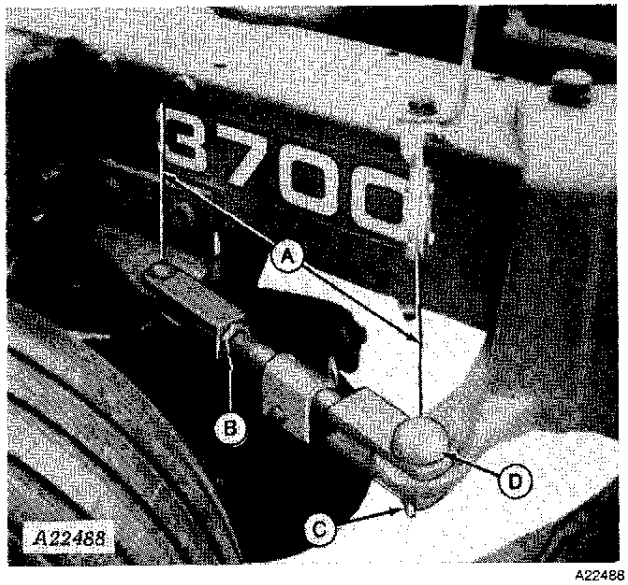
To set the tailwheel eyebolt, lower the plow to the ground and retract the tailwheel hydraulic cylinder completely.

Loosen jam nut (B), and remove cotter pin (C) and drilled pin (D).

Turn eyebolt in or out to dimension "A". Secure eyebolt with drilled pin and spring locking pin. Tighten jam nut.

| Width of Cut | Dimension "A" |
|---|---|
| 450 mm (18") | 415 mm (16-1/4") |
| 500 mm (20") | 430 mm (17") |
| 550 mm (22") | 445 mm (17-1/2") |

**A - Dimension "A"**
**B - Jam Nut**
**C - Cotter Pin**
**D - Drilled Pin**

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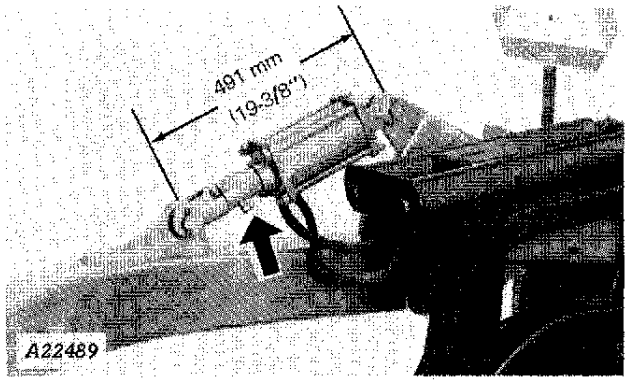
## SETTING TAILWHEEL HYDRAULIC CYLINDER

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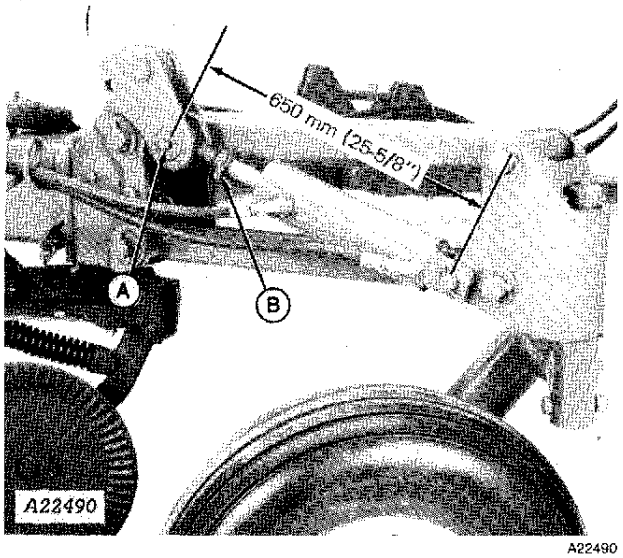
Set the tailwheel hydraulic cylinder to 491 mm (19-3/8 in.) with the tailwheel hydraulic cylinder in the retracted position.

To set the hydraulic cylinder, extend the cylinder and turn adjusting collar (bold arrow) on cylinder rod. Retract hydraulic cylinder.



## SETTING FRONT FURROW WHEEL HYDRAULIC CYLINDER

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Set the front furrow wheel hydraulic cylinder to 650 mm (25-5/8 in.) retracted length.

To set the cylinder length, raise the plow and loosen cap screw (A).

Place a wrench on the welded lug (B) and turn the cylinder rod in or out as needed. Tighten cap screw and lower plow.

**A - Cap Screw**
**B - Welded Lug**

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