

# **534 AND 544 AGRICULTURAL BULLDOZERS**



## **OPERATORS MANUAL 534 AND 544 AGRICULTURAL BULLDOZERS**

OMA44885 A2    English

**PLOW & PLANTER WORKS  
OMA44885 A2**

LITHO IN THE U.S.A.  
ENGLISH



## INTRODUCTION

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**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 of tractor forward travel.

Record your bulldozer serial number in the space provided on page 32. Your dealer needs this information to give you prompt, efficient service when you order parts or attachments. If your bulldozer requires replacement parts, see your John Deere dealer.

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

This operator's manual contains SI Metric equivalents which follow immediately after the U.S. customary units of measure.

# JOHN DEERE 534 AND 544 AGRICULTURAL BULLDOZERS

## PREDELIVERY CHECK LIST

After the bulldozer has been completely assembled, inspect it thoroughly to be certain it is in good operating order before delivering it to the customer. 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.

### Bulldozer Inspection

- ☐ Check all bolts and nuts to be sure they are tight.

### Bulldozer Run-In

- ☐ Operate the bulldozer hydraulic system for a short period; then shut off tractor and make a careful check for loose bolts, binding parts, or other irregularities.
- ☐ Clean the bulldozer and touch up any places where the paint is nicked or scratched.
- ☐ This bulldozer has been tested and, to the best of my knowledge, is ready for delivery to the customer.

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(Date)

---

(Technician)

## OWNER REGISTER

Name \_\_\_\_\_

Post Office \_\_\_\_\_

County \_\_\_\_\_ State \_\_\_\_\_

Serial No. \_\_\_\_\_

Date Purchased \_\_\_\_\_

## DELIVERY CHECK LIST

- ☐ Explain the adjustments for implement operation.
- ☐ Advise the customer of the safety precautions which should be observed when operating the bulldozer. In this regard refer to safety on pages 2-3.
- ☐ Give the operator's manual to the customer and explain all operating adjustments.
- ☐ Explain to the customer that when the tractor and bulldozer are transported on a road or highway at night or during the day, accessory lights and devices should be used for adequate warning to operators of other vehicles. In this regard, tell the customer to check local governmental regulations.
- ☐ Invite the customer to come in and discuss any problems which may be encountered while operating the bulldozer.

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(Date)

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(Signature of person making delivery)

## AFTER-SALE CHECK LIST

The following is a suggested list of items to be checked at a dealer-customer mutually agreeable time during the first using season:

- ☐ Check with the customer as to the performance of the bulldozer.
- ☐ Acquaint the customer with any special attachment which will help do a better job.

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(Date)

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(Technician)



# Contents

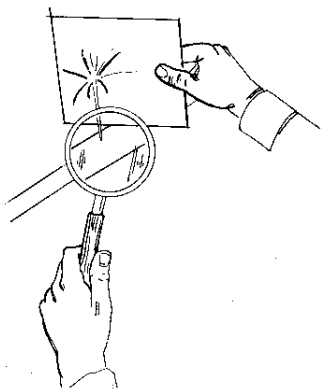
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# Safety

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## Transport Safely

Carry the bulldozer blade as low as possible when working or traveling on inclines.

Avoid sidehill travel. Drive up and down slopes to reduce the danger of tipping.

When crossing rough terrain or obstacles, travel slowly and at an angle to the obstacle. This will reduce wear on equipment and prevent operator injury.

Never drive too close to the edge of a ditch or excavation.

When driving or transporting the bulldozer-tractor combination on a road or highway, use accessory lights and devices for adequate warning to operators of other vehicles. In this regard, check local governmental regulations. Various safety lights and devices are available from your John Deere dealer.

## Avoid High-Pressure Hydraulic Fluids

Escaping fluid under pressure can have sufficient force to penetrate the skin, causing serious personal 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 suspected 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.

## Operate the Bulldozer Safely

Before operating the bulldozer, be sure no one is standing near it.

Only one person, the operator, should be allowed on the bulldozer-tractor combination while it is being operated.

Never operate the bulldozer except from tractor seat.

Never allow anyone to work under a raised bulldozer blade.

When operating the bulldozer, remain at the controls until operation is completed.

When pulling the pin to angle the bulldozer blade, be sure your feet are not under the blade.

Do not use the blade for a battering ram.

When bulldozing down a slope, doze three or four bowls of dirt to the beginning of the slope; then doze dirt downhill with blade in float position. During forward downhill operation, never extend cylinders to hold a blade in a rigid position. The blade edge may catch on an obstruction or uneven ground and cause tractor upset.

Lower the bulldozer blade to the ground and shut off the tractor engine before adjusting or servicing the bulldozer.

When operating the bulldozer, be sure to avoid catching hydraulic hoses on sharp objects.

Never operate the bulldozer without an adequate amount of rear wheel ballast.

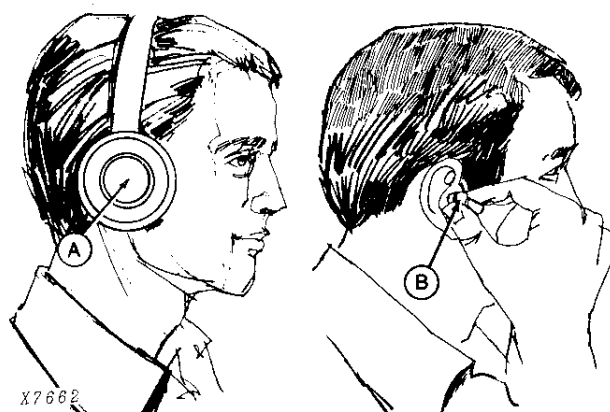
Keep hands, feet, and clothing away from moving parts.

### 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



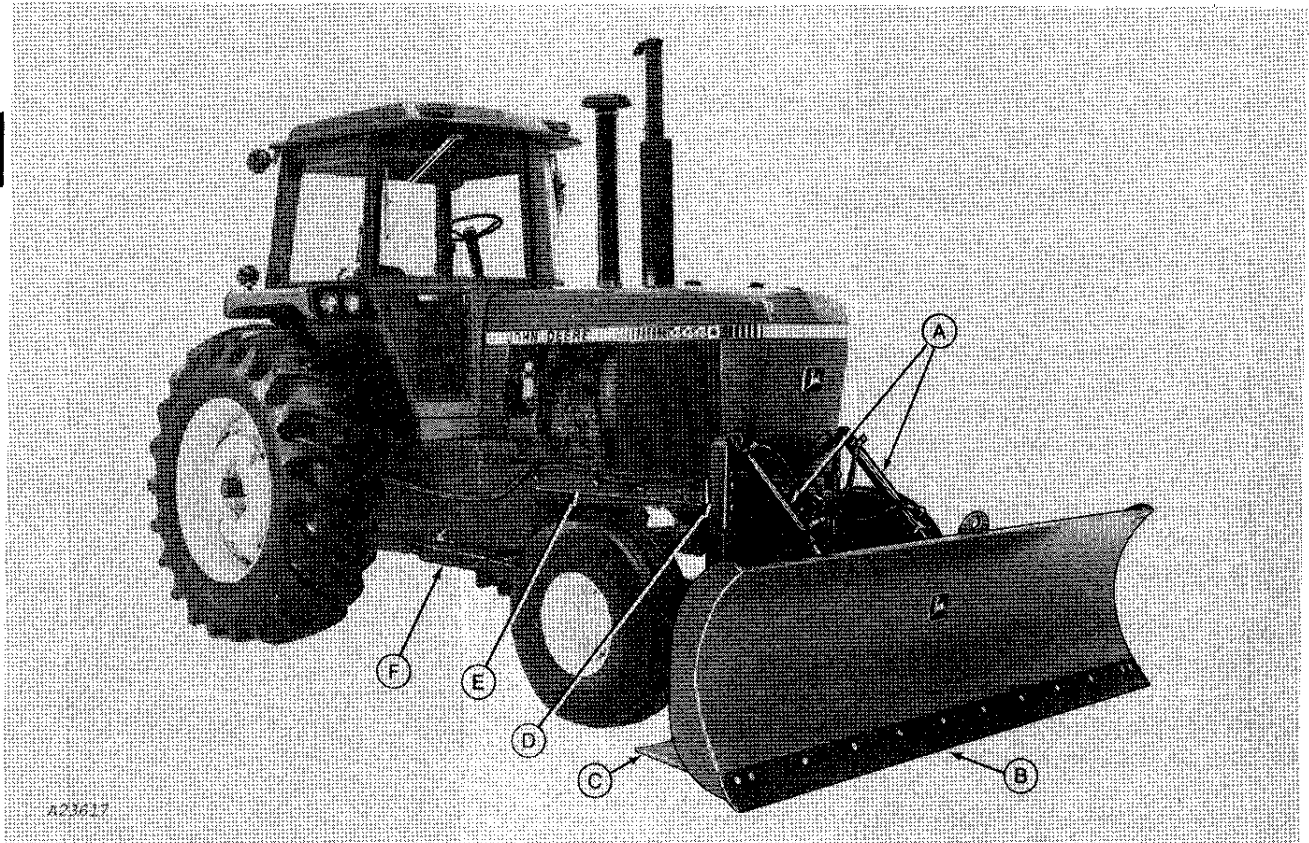
### Unauthorized Machine Modifications

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



## Identification Views

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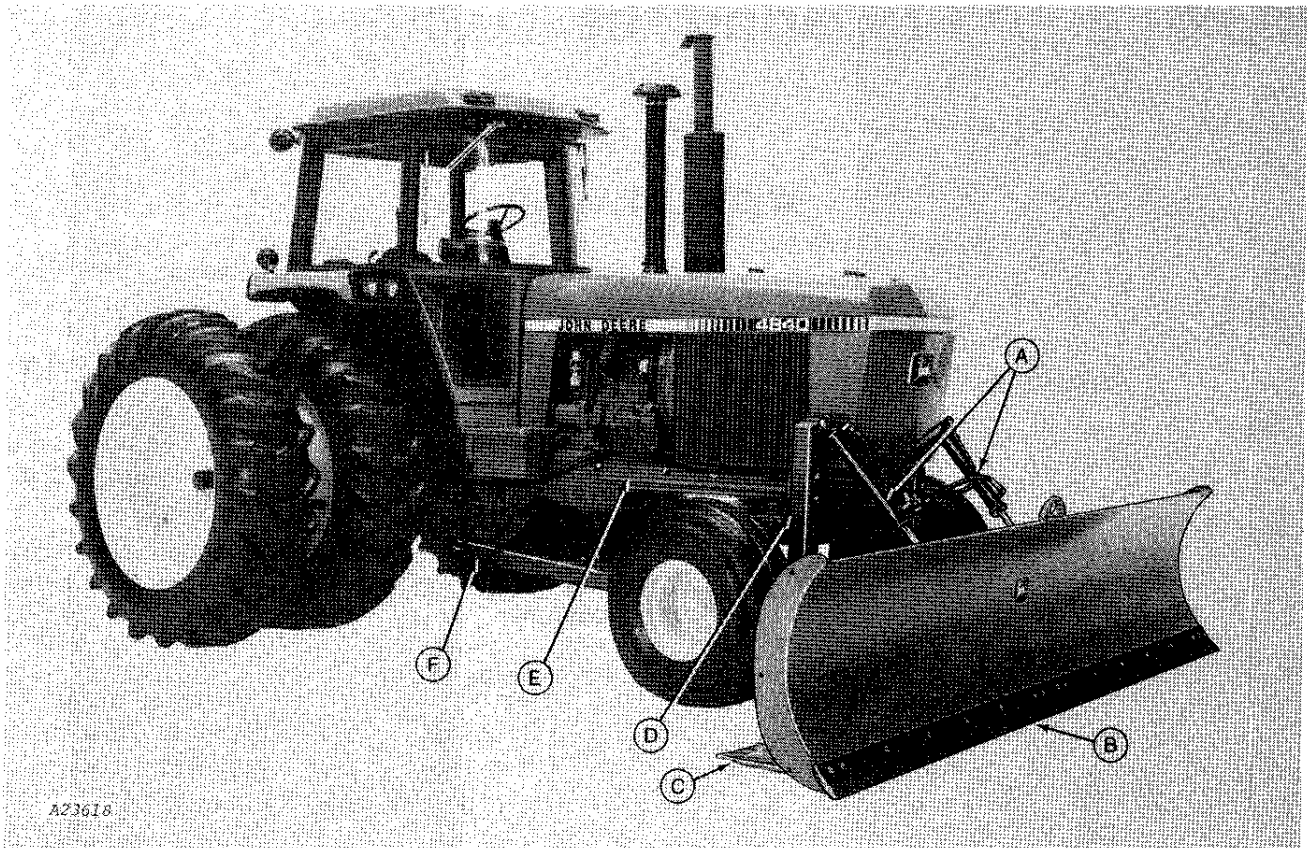
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A - Hydraulic Cylinders  
B - Blade

C - Depth Shoe  
D - A-Frame

E - Mounting Frame  
F - Hitch Pole

*10-Ft. (3.0 m) 534 Bulldozer Mounted on John Deere 4440 Tractor*



A23618

A - Hydraulic Cylinders  
B - Blade

C - Depth Shoe  
D - A-Frame

E - Mounting Frame  
F - Hitch Pole

12-Ft. (3.6m) 544 Bulldozer Mounted on John Deere 4840 Tractor





# Preparing the Tractor

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6-7

## WHEEL SPACING

**IMPORTANT:** To avoid possible damage from overstressing tractor axles, use no tire combination which results in overall width greater than the width of the angled blade.

**IMPORTANT:** The minimum wheel spacing on a 4640 Tractor with power-front wheel drive must be 80 in. (2 032 mm).

The chart below gives recommended overall tire tread width settings with bulldozer in angled position.

BLADE WIDTH	OVERALL TIRE TREAD WIDTH
8 ft. (2.4 m)	92 In. (2 335 mm)
9 ft. (2.7 m)	103 In. (2 615 mm)
10 ft. (3.0 m)	114 In. (2 895 mm)
12 ft. (3.6 m)	137 In. (3 480 mm)

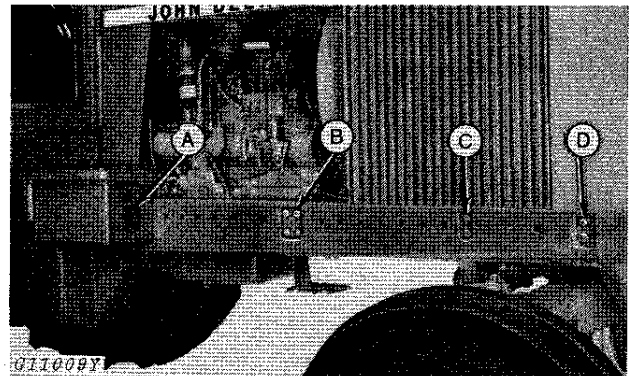
## REAR WHEEL WEIGHT

Add necessary rear end weights for efficient operation and safety. Any of the cast-iron weights recommended for your tractor, or liquid in the tires, may be used for necessary ballast. Be sure the weight is distributed equally on each rear wheel.

## SIDE FRAME BOLTS

On 4040, 4240, and 4440 Tractors, tighten all bolts to 275 ft-lbs (373 N·m) torque.

On 4640 and 4840 Tractors, tighten bolts (A) and (D) to 275 ft-lbs (373 N·m) and bolts (B) and (C) to 425 ft-lbs (576 N·m) torque.



6-7

## TIRE INFLATION

Inflate front and rear tires to proper pressure as recommended in the tractor operator's manual for heavy front-mounted implements.

## CHECKING HYDRAULIC OIL LEVEL

Check the oil level in the tractor hydraulic system daily. Refer to your tractor operator's manual for instructions. Keep the oil supply up to the proper level. Before checking oil supply, fully extend and retract cylinders three or four times and return the blade to the ground. Stop the tractor engine and then check the oil supply. If oil level is low, add oil as instructed in the tractor operator's manual.

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