

864 AGRICULTURAL BULLDOZER

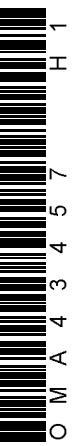


OPERATORS MANUAL 864 AGRICULTURAL BULLDOZER

OMA43457 H1 English

**JOHN DEERE WELLAND WORKS
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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 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, go to 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.





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Safety

2-3

Transport Safety

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.

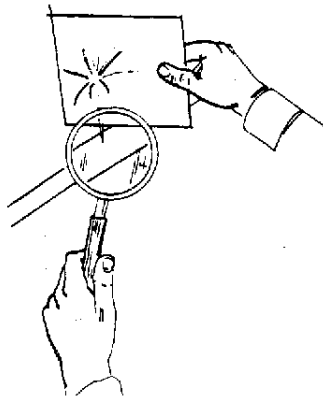
If injured by escaping fluid, see a doctor at once. Serious infection or reaction can develop if proper medical treatment is not administered immediately.

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.



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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.

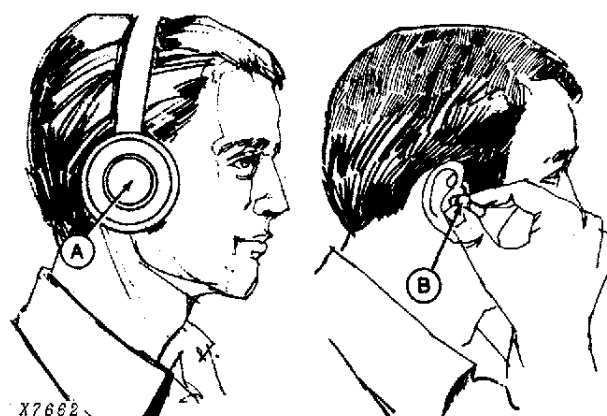
Never operate the bulldozer without an adequate amount of rear wheel ballast.

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



Preparing the Tractor

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 straight blade.

The minimum inside-to-inside tire spacing required to allow full front axle oscillation is 50-3/8 in. (1.28 m). With 23.1 x 30 or larger section dual tires and the 50-3/8 in. (1.28 m) minimum inside-to-inside dimension, the outer tires are wider than the 12 foot (3.66 m) blade. However, for snow removal or silage work, two one-foot (305 mm) extensions can be used with 23.1 x 30 or larger section dual tires.

IMPORTANT: The 864 Bulldozer is recommended only for tractors equipped with dual rear tires.

8440 and 8640 TRACTORS WITH DUAL TIRES

Tire Size	Tread Setting (Inside Tire)	Tread (Outside Tire)	Width (Overall)	Usable Blade
18.4-38	69" (1 750 mm)	115" (2 920 mm)	134" (3 400 mm)	12' (3.7 m)
18.4-34	69" (1 750 mm)	115" (2 920 mm)	133-1/2" (3 390 mm)	12' (3.7 m)
23.1-30	73-1/2" (1 870 mm)	129" (3 280 mm)	152" (3 860 mm)	None *
20.8-34	71" (1 800 mm)	121-1/2" (3 090 mm)	142" (3 610 mm)	None *
23.1-30	73-1/2" (1 870 mm)	129" (3 280 mm)	148" (3 760 mm)	None*
18.4-34	73-1/2" (1 870 mm)	129" (3 280 mm)	148" (3 760 mm)	None*

8450 and 8650 TRACTORS WITH DUAL TIRES

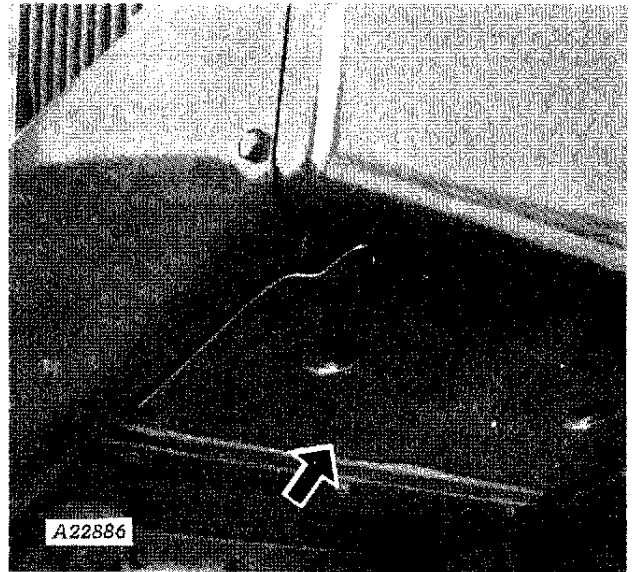
Tire Size	Tread Setting (Inside Tire)	Tread (Outside Tire)	Width (Overall)	Usable Blade
18.4-34	69" (1 750 mm)	114-1/2" (2 910 mm)	133" (3 380 mm)	12' (3.7 m)
18.4-38	70" (1 780 mm)	117" (2 970 mm)	136-3/4" (3 470 mm)	12' (3.7 m)
20.8-34	71" (1 800 mm)	120-1/2" (3 060 mm)	141" (3 580 mm)	12' (3.7 m)
20.8-38	71" (1 800 mm)	120-1/2" (3 060 mm)	141" (3 580 mm)	12' (3.7 m)
23.1-34	73-3/4" (1 870 mm)	128" (3 250 mm)	151-1/2" (3 850 mm)	None *
24.5-32	75-1/2" (1 920 mm)	134" (3 400 mm)	159" (4 040 mm)	None *

* None means that blade does not cover full expanse of wheel tracks. For snow removal or silage work, blades equipped with two one-foot extensions work satisfactorily.

BALLAST

Front End Weight (8450 and 8650 Tractors Only)

If your tractor is equipped with optional front end weight, remove the weight to prevent overloading front wheel axles. See your tractor operator's manual for removal instructions.



4-5

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.

TIRE INFLATION

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

CHECKING OIL LEVEL

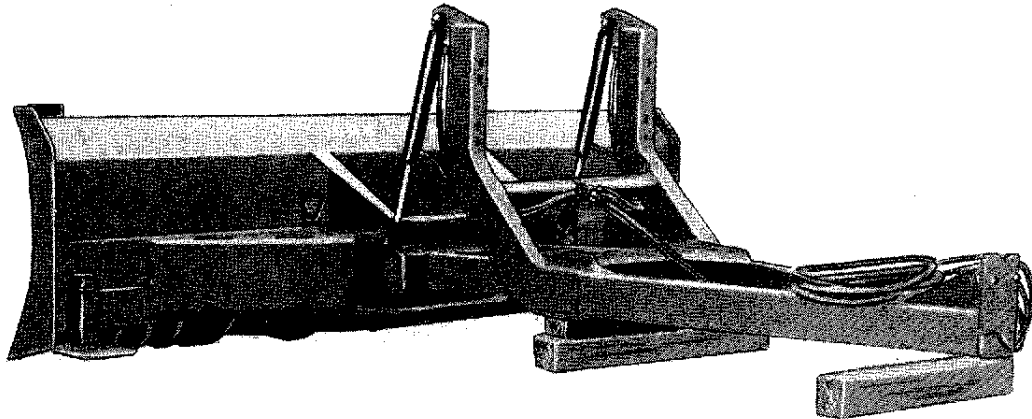
Check the oil level in the tractor hydraulic system daily. Refer to your tractor operator's manual for instructions. Keep the oil supply up to the proper level. Before checking oil supply, operate the blade all the way up and down three or four times and return the blade to the ground. Stop the tractor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



Attaching and Detaching

ATTACHING TO TRACTOR

6-11

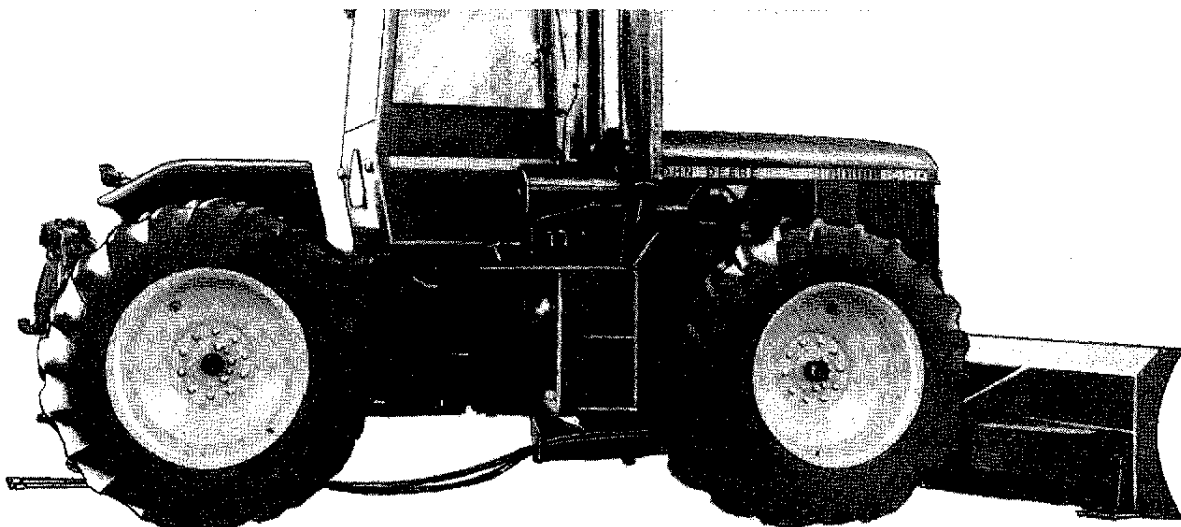


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Block up A-frame.

IMPORTANT: Make sure the A-frame is low enough to clear the front transmission housing on the underside of the tractor.



A22888

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Drive the tractor into position over the A-frame.

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