

963 WAGON WITH FOUR-WHEEL HYDRAULIC BRAKES



JOHN DEERE

OPERATORS MANUAL 963 WAGON WITH FOUR-WHEEL HYDRAULIC BRAKES

OMW13645 F7 English

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ENGLISH



TO THE PURCHASER

The purpose of this manual is to furnish valuable information about your No. 963 Wagon. In this manual, you will find instructions and helpful suggestions for operation, adjustment, lubrication, assembly, and maintenance of your new wagon.

Keep this manual in a convenient place for quick and easy reference. Use it as a guide whenever questions arise. You have purchased a dependable, sturdy wagon, but only by proper care and operation can you expect to receive the service and long life designed and built into it.

If you need additional information, or if your wagon requires special servicing, see your John Deere dealer. He will be glad to serve you.

If, after much active work, your wagon requires attention, take it to your John Deere dealer for service as soon as possible. By giving your wagon proper attention during slack periods, it will always be ready, without delay, when you need it.

Sometime in the future, your wagon may need new parts to replace worn or broken parts. It may also need emergency service not covered in this manual. If so, go to your John Deere dealer. His facilities for providing genuine John Deere parts and prompt "know-how" service, will help you keep your wagon in efficient operation.

Model No.....
Date Purchased.....19.....

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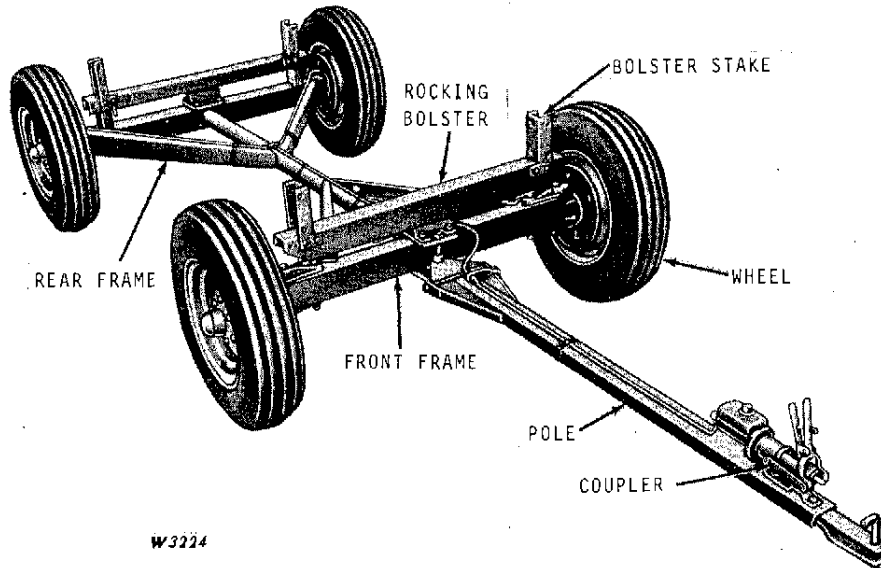


Figure 1—John Deere No. 963 Wagon with Four-Wheel Hydraulic Brakes and Rocking Front Bolster

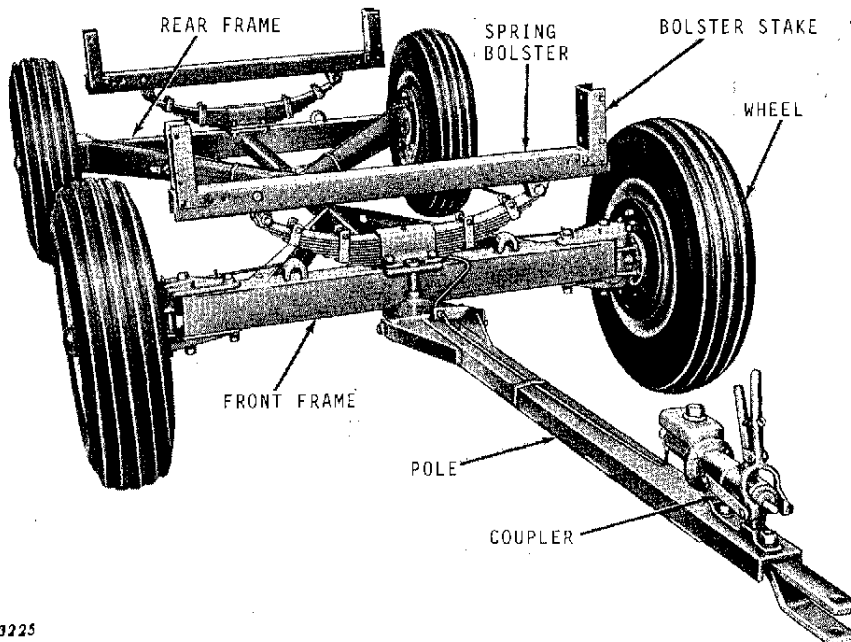


Figure 2—John Deere No. 963 Wagon with Four-Wheel Hydraulic Brakes and Spring Bolsters

SPECIFICATIONS AND DATA

MODEL.....	No. 963 with four-wheel hydraulic brakes
CAPACITY.....	10,000 lbs. (see page 5)
OPERATING SPEED.	20 miles per hour maximum recommended speed, due to the limitations of 7.50x16—8-ply ribbed implement tire. Faster speeds can be attained if automotive tires are used, provided the maximum load is correspondingly reduced.
WEIGHT.....	701 lbs. with solid bolster, 16x6L wheels 800 lbs. with spring bolster, 16x6L wheels 712 lbs. with rocking bolster, 16x6L wheels 873 lbs. with solid bolster, 7.50x16—8-ply tires 972 lbs. with spring bolster, 7.50x16—8-ply tires 884 lbs. with rocking bolster, 7.50x16—8-ply tires
WIDTH.....	72 inches
HEIGHT.....	27 inches with spring bolster 24 inches with rocking bolster 22 inches with solid bolster
TREAD.....	62 inches
WHEEL BASE.....	Adjustable to 83, 95, 107, 119, and 131 inches
TURNING CIRCLE DIAMETER.....	25 feet, 7 inches
WHEELS.....	Disk type, 16x6L
TIRES.....	7.50x16—8-ply ribbed implement tire for 16x6L wheel
FRONT AND REAR FRAMES.....	Rectangular tubular steel axles with or without spring bumpers
BOLSTERS.....	Available with solid bolster, spring bolster, or rocking front bolster
BOLSTER STAKE....	Adjustable for 38" or 42" setting
SPRING.....	10 leaves, 31" long, 5/16" leaf thickness, 3" spring deflection
POLE.....	Welded reinforced steel pole with plain clevis hitch
BRAKES.....	Four-wheel 12" x 2" hydraulic brakes operated simultaneously with towing vehicle brake, as towing vehicle brake pedal is depressed

(Specifications and Design Subject to Change Without Notice)

OPERATION AND ADJUSTMENT

GENERAL

The No. 963 Wagon is recommended especially for hauling maximum loads at relatively slow speeds. Load capacities depend on tire pressures as specified on page 5. A maximum speed of 20 miles per hour must be observed since implement tires, used on this wagon, are not recommended for faster travel. Since the maximum wagon speed is controlled by the type of tires used, the wagon may be operated at higher highway speeds if equipped with automotive tires, not limited to low operating speeds. Maximum load limits must be reduced when speed is increased.

The hydraulically-actuated brake is a two-shoe brake having a single anchor pin. One end of each shoe rests against the anchor pin in the release position. The opposite ends of the shoes are linked together by means of an adjusting screw, the function of which is to link together the ends of the shoes and provide a means of compensating for lining and drum wear. A piston-type wheel cylinder actuates the brake shoes when pressure is developed within the hydraulic system.

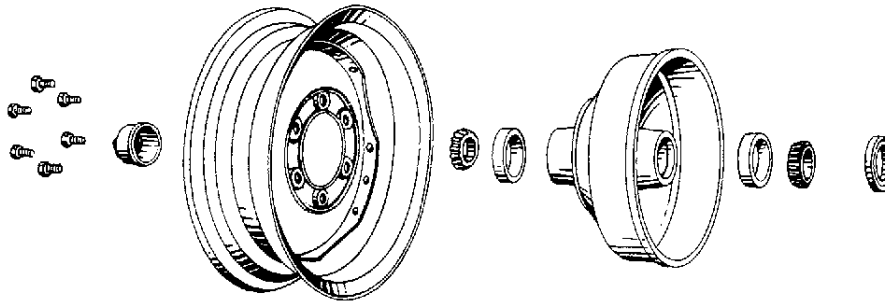
The four wheel brakes operate in perfect synchronization with the brakes on the towing vehicle. Step on the vehicle brake pedal, and you have one complete set of brakes throughout the system. Brake fluid from the towing vehicle does not pass to the wagon, and there is no loss of fluid, nor admittance of air into the system at any time. When uncoupled, there remain two independent braking systems, which when coupled, become one perfectly synchronized unit. A hand lever on the wagon serves as the parking brake control, and in the event of an accidental breakaway, the wagon brakes are set automatically.

An optional brake hookup (surge brake pole) can be used which makes it possible to operate the wagon brakes without connecting the wagon hydraulic-brake system to the towing vehicle. See page 27 for details concerning this optional equipment.

NOTE: Right- and left-hand sides referred to in this manual are determined from a position at the rear of the machine facing in the direction of travel.



CAUTION: When pulling the wagon on a road or highway at night or during the day, use accessory lights and devices for adequate warning to the operators of other vehicles. In this regard, check local governmental regulations. Various safety lights and devices are available from your John Deere dealer.



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Figure 3

WHEELS

Wheel bolts must be tightened after the wagon has been in use a short time and should be checked periodically thereafter to be sure they are tight.

If wheels become loose, adjust the wheel bearings. Remove the hub cap and take cotter pin out of adjusting nut and axle. Tighten the hub nut. Then, gauging by the holes in the axle for the cotter pin, loosen hub nut one notch and re-install the cotter pin and hub cap.

Remove wheels and bearings once or twice a year and inspect all parts for wear or dirt. Remove, from the hub, any seals showing dirt inclusions and thoroughly clean all parts with diesel fuel. Replace damaged parts and apply new grease to bearings and wheel hubs. Inspect the brake lining and drums, cleaning them if grease or foreign matter is present. Reassemble in the order shown in Figure 3.

TIRE PRESSURE AND LOAD CAPACITY

Wagon Tire Size	Max. Load for Speeds Up to 5 mph		Max. Load for Speeds Up to 10 mph		Max. Load for Speeds Up to 20 mph	
	Inflation Pressure (psi)	Gross Load (lbs)	Inflation Pressure (psi)	Gross Load (lbs)	Inflation Pressure (psi)	Gross Load (lbs)
7.50-16, 8-Ply	49	10,000	49	8,200	44	7,700

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