



**John Deere**

**Operator's Manual**

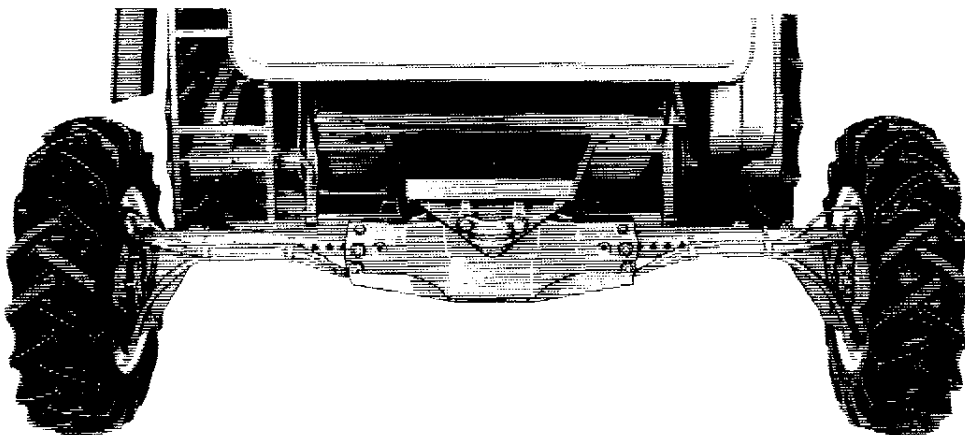
**Power Rear Wheel**

**OM-H84396**

**Drive For 7700**

**Issue C2**


**Hydrostatic Drive Combines**





## To The Purchaser

This new power rear wheel drive was carefully designed and manufactured to give years of dependable service. To keep it running efficiently, read the instructions in this operator's manual. Each section is clearly identified so you can easily find the information you need—whether it is operation or service. Read the Table of Contents to learn where each section is located.

 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.

Study this manual carefully, keep it handy with your regular combine operator's manual, in a safe place, for future reference.

If you find that you require information not covered in this manual, see your John Deere dealer. He will answer any questions regarding the operation and service of the power rear wheel drive. He has trained mechanics who are kept informed

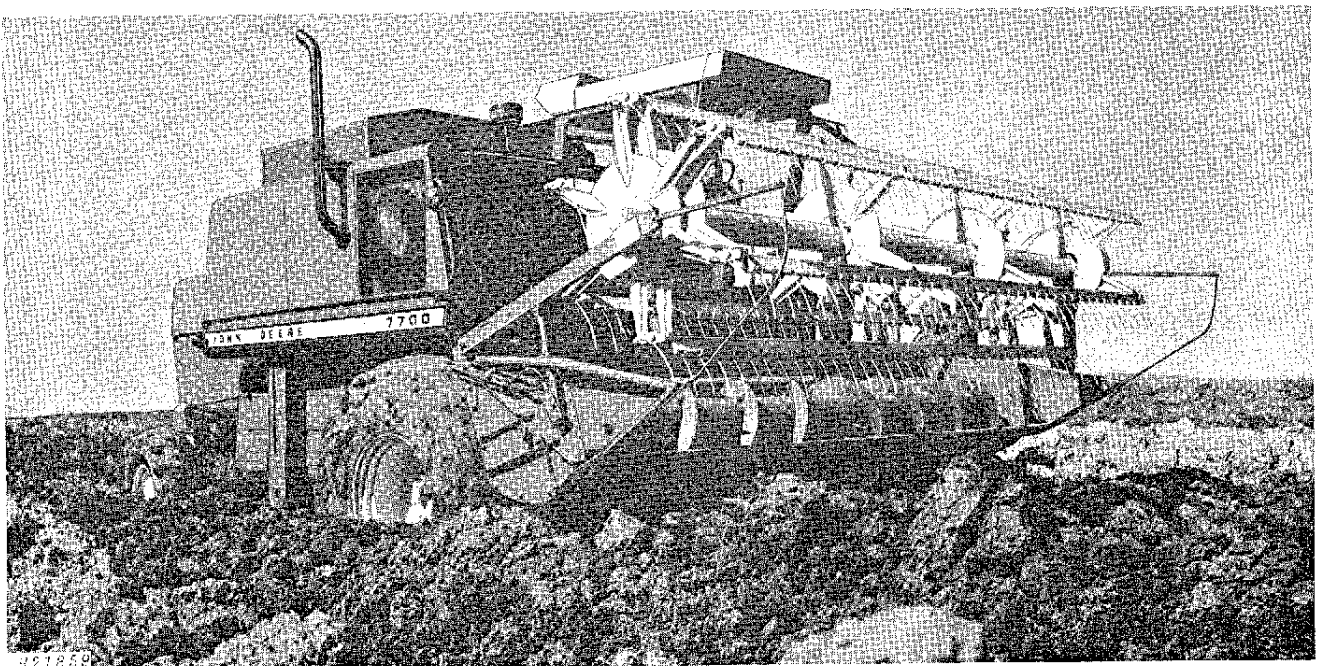
on the best method of John Deere servicing and can give you prompt know-how service in the field or in his shop.

Should your power rear wheel drive require replacement parts, see your John Deere dealer where you will receive John Deere parts—accept no substitutes. John Deere parts fit properly and insure satisfactory service because they are made from original patterns and from the same material as the new machines.

"Right-hand" and "left-hand" sides are determined by facing in the direction the combine will travel when in use.

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

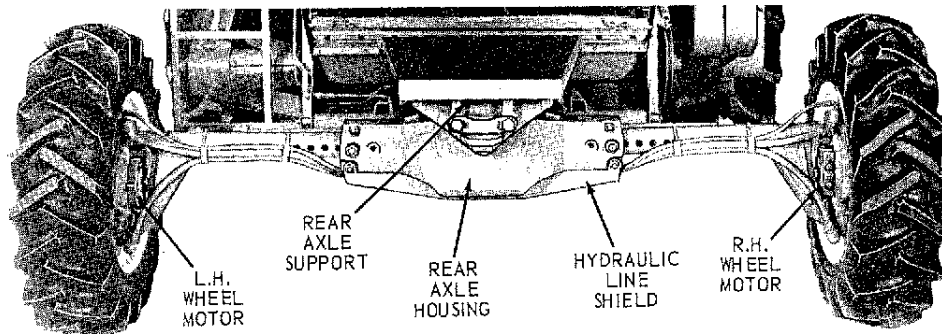
Record the date purchased in the space provided on page 11. Your dealer needs this information to give you prompt, efficient service when you order parts.





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# Operation

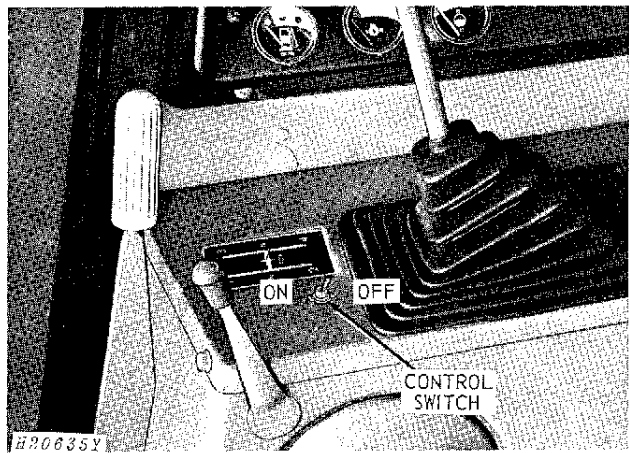
## GENERAL

This rear wheel drive has been designed for use in poor traction conditions or when needed to improve steering control.

## CONTROL SWITCH

To engage the power rear wheel drive, move the switch lever forward to the "ON" position. To disengage, move the switch lever rearward to the "OFF" position.

The powered wheels can be engaged "on the go" in either forward or reverse or when the combine is stopped by moving the control switch on the instrument console.



### GROUND SPEEDS (MPH) WITH POWER REAR WHEEL DRIVE ENGAGED

Tire or Tracks		Ply Rat- ing	1st Gear		2nd Gear		3rd Gear		4th Gear	
Size	Type		Forward	Reverse	Forward	Reverse	Forward	Reverse	Forward	Reverse
23.1-26*	Cleat	8	0 to 1.5	0 to .9	0 to 3.1	0 to 1.9	0 to 4.8	0 to 2.9	0 to 7.9	0 to 4.9
23.1-26**	Cane & Rice	10	0 to 1.6	0 to 1.0	0 to 3.2	0 to 2.0	0 to 5.1	0 to 3.2	0 to 8.3	0 to 5.1
24.5-32***	Cleat	10	0 to 1.5	0 to .9	0 to 3.1	0 to 1.9	0 to 4.9	0 to 3.0	0 to 8.1	0 to 5.0
24.5-32****	Cane & Rice	10	0 to 1.5	0 to .9	0 to 3.2	0 to 2.0	0 to 5.0	0 to 3.1	0 to 8.4	0 to 5.2
Tracks****			0 to .7	0 to .4	0 to 1.5	0 to .9	0 to 2.5	0 to 1.5	0 to 4.4	0 to 2.7

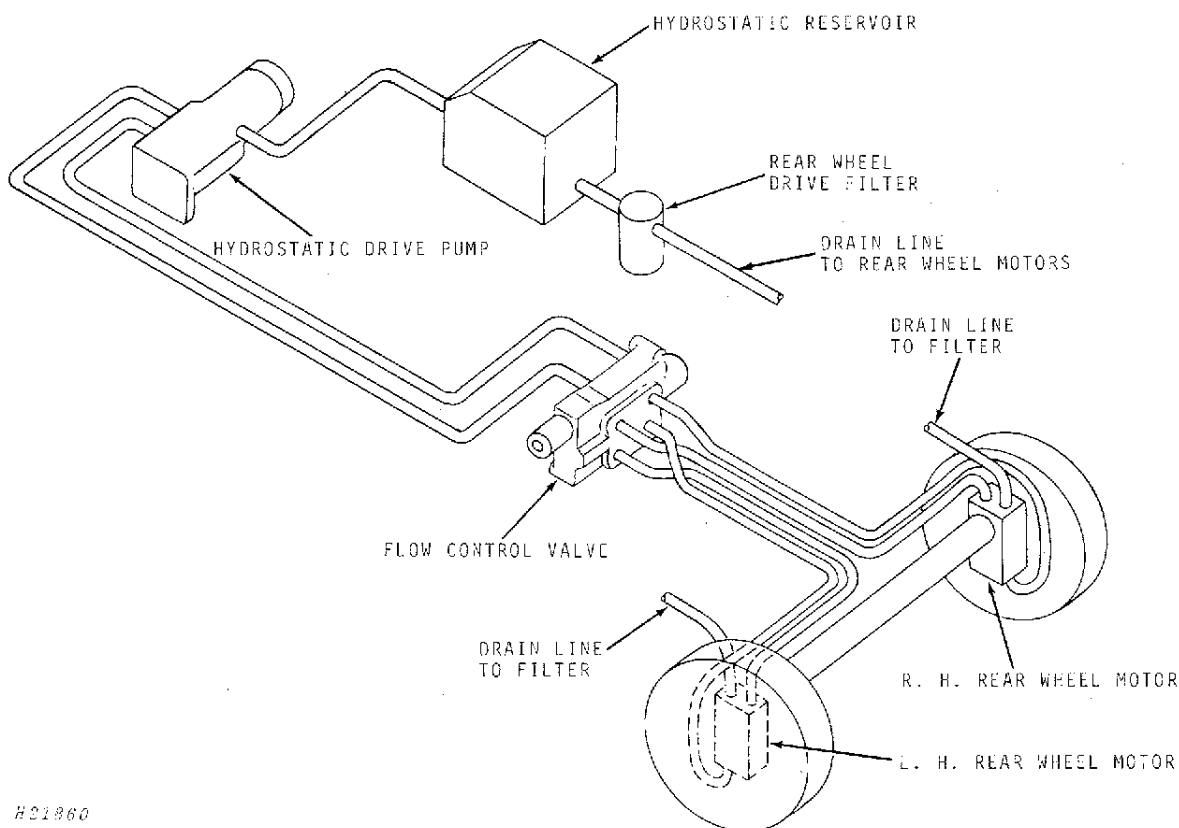
\* Based on 25.1:1 rear wheel reduction, 12.4-24 cleat rear tires, and 11/90 final drives.

\*\* Based on 25.1:1 rear wheel reduction, 12.4-24 cane and rice rear tires, and 11/90 final drives.

\*\*\* Based on 25.1:1 rear wheel reduction, 14.9-24 cleat rear tires, and 11/104 final drives.

\*\*\*\* Based on 40.6:1 rear wheel reduction, 14.9-24 cane and rice rear tires, and 11/104 final drives.

### POWER REAR WHEEL DRIVE SYSTEM



H21860

The power rear wheel drive system consists of an electro-hydraulic control valve, two rear wheel motor assemblies that contain integral planetary gearing, a fixed displacement axial piston hydraulic motor, an oil filter, and connecting hydraulic lines.

All of these items are for the power rear wheel drive system only with the exception of the axial piston motor which is a part of the hydrostatic drive system used to propel the combine.

The power rear wheel drive motors are connected in parallel through a control valve with the combine hydrostatic propulsion system. When the power rear wheel drive system is engaged, the torque (rotating power) available to the rear wheels will be proportional to the main drive wheel torque.

To engage the power rear wheel drive, the operator sends an electrical signal from the console

mounted control switch to the power rear wheel drive control valve. This control valve responds by opening to allow flow of hydrostatic fluid to the rear wheel motors. The wheel motors convert this hydraulic energy into mechanical energy which in turn drives the primary gear. This gear transfers power through a gear reduction train to the secondary gear which is attached to the wheel rim, propelling the combine.

In the event of rear wheel spin out, flow limiting valves attached to the rear wheel drive control valve prevent excessive rear wheel motor speed and provide a means of maintaining flow in the main hydrostatic propulsion system.

The design of the rear wheel assemblies provides for automatic gear disengagement when the hydraulic power supply is cut off. Small flexible drain lines from each wheel motor housing route internal leakage fluid back to the hydrostatic reservoir.

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