



JOHN DEERE

## **OPERATORS MANUAL**JOHN DEERE 3020 TRACTOR

(SERIAL NO. 150,001- )

OMR48271 I1 English

JOHN DEERE WATERLOO WORKS
OMR48271 I1

LITHO IN THE U.S.A. (REVISED) ENGLISH





## TO THE PURCHASER

Your versatile new John Deere Tractor meets the exacting requirements of modern farming.

Operating ease and comfort, hydraulic power when and where you need it, the ability to match engine power and transmission speed to any job, outstanding economy and dependability, modern styling, and simplicity of lubrication and service are all special features of this great tractor.

We are confident this modern tractor, combined with equally advanced John Deere tools and implements, will help you to farm better, easier, and more profitably.

At the time the tractor was delivered, the John Deere dealer discussed with you its safe operation and proper care. However, before putting the tractor to work, read this manual. It contains complete instructions for operating the tractor, caring for it, and taking full advantage of its many time- and labor-saving features. After reading the manual, keep it in a convenient place for quick and easy reference if questions arise concerning operation, lubrication, or service.

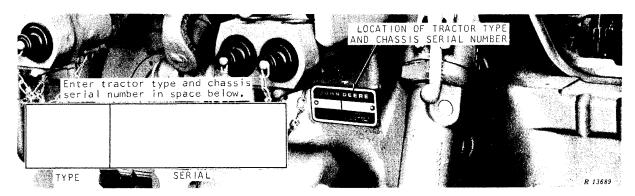
The warranty of this tractor appears on your copy of the purchase order which you should have received from your dealer when you purchased the tractor.

Your John Deere dealer wants to help you get the most value from your tractor. His skilled servicemen can handle every job efficiently. These men are trained in modern service methods; they have all necessary tools and equipment. If new parts are needed, only genuine John Deere parts will be installed. These parts are exact duplicates of the originals, made from the same patterns and of the same high-quality materials.

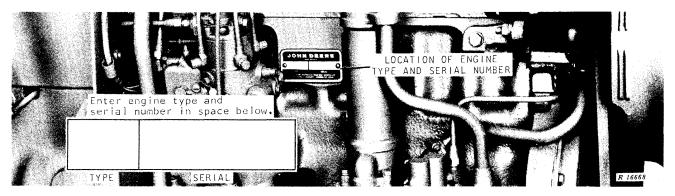
When in need of new parts, be prepared to furnish your dealer with the tractor type, complete tractor chassis serial number, engine type, and complete engine serial number. For ready reference, locate and record the above information in the spaces provided in the illustrations below.

''Right-hand'' and ''left-hand'' sides are determined by facing in the direction of tractor forward travel.

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.



Tractor Type and Chassis Serial Number

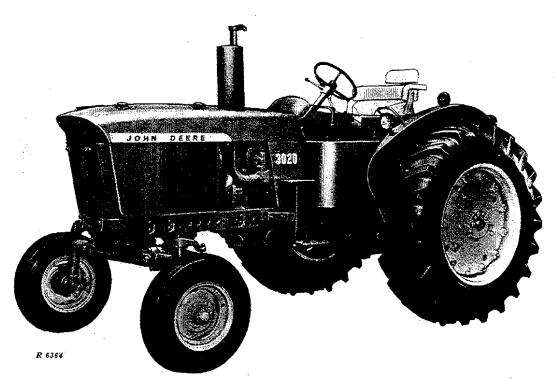


Engine Type and Serial Number



## CONTENTS

•						Page
SPECIFICATIONS	 				 	2
CONTROLS AND INSTRUMENTS						
OPERATION						
SAFETY RULES	 				 	44
FUELS AND LUBRICANTS	 	•	<i>.</i>		 	46
LUBRICATION AND PERIODIC SERVICE						
SERVICE	 				 	61
TRACTOR STORAGE	 			· · · · · · ·	 	78
TROUBLE SHOOTING	 		•••	. <i></i>	 	79
MDEA						86



John Deere 3020 Standard Tractor with Gasoline Engine

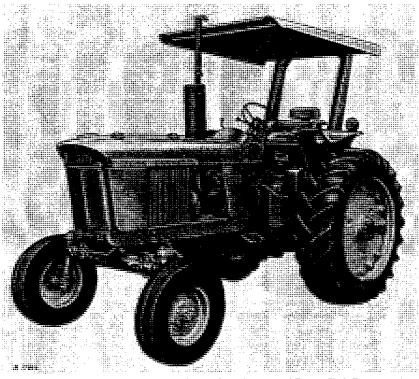


## **SPECIFICATIONS**

HORSEPOWER (observed):*	Diesei	Gasoline	LP-Gas					
Syncro-Range Transmission	71.26 h.p.	71.37 h.p.	70.66 h.p.					
Power-Shift Transmission	64.70 h.p.	67.13 h.p.	65.28 h.p.					
ENGINE:								
Type	4-cylinder, in-line, valve-in-head							
Engine speeds:	,	,						
Normal slow idle	800 rpm	800 rpm	800 rpm					
Working range	1500 to 2500 rpm	1500 to 2500 rpm	1500 to 2500 rpm					
Bore and stroke	$4-1/4$ in. $\times 4-3/4$ in.	$4-1/4$ in. $\times 4-1/4$ in.	4-1/4 in. x $4-1/4$ in.					
Displacement	270 cu. in.	241 cu. in.	241 cu. in.					
Compression ratio	17.0 to 1	7.5 to 1	9.0 to 1					
Firing order	1-3-4-2	1-3-4-2	1-3-4-2					
Intake valve clearance	0.018 in.	0.015 in.	0.015 in.					
Exhaust valve clearance	0.018 in.	0.028 in. (hot)	0.028 in. (hot)					
Injection pump timing	TDC							
Distributor timing (see page 68 for								
engine speed)		20° BTDC	25° BTDC					
Distributor point gap		0.022 in.	0.022 in.					
Spark plug gap		0.025 in.	0.015 in.					
ELECTRICAL SYSTEM:		•						
Electrical system voltage	12 volts	12 volts	12 volts					
Batteries (see page 72)	Two (connected in	One	One·					

<sup>\*</sup>Maximum observed horsepower measured at the PTO at 2500 rpm in official tests.

series)



John Deere 3020 Row-Crop Tractor with Gasoline Engine and Power Shift Transmission

COOLING SYSTEM.	HYDRAULIC SYSTEM:	
Type Pressurized with centrif-	Type Closed center, constant pre	
ugal pump Engine temperature control Heavy-duty thermostat	sure. Includes power stee ing, power brakes, and is plement control	
LUBRICATION SYSTEM Force-feed pressure- ized type with full-flow	Standby pressure	si
oil filter	BRAKES Hydraulically power actuate disk-type, operating in oil	
CAPACITIES:	anounce annual	
Fuel tank Diesel and gasoline 29 U.S. gals. LP-Gas (80% full) 33.6 U.S. gals.	GROUND SPEEDS See page	13
Crankcase Dry system 9 U.S. qts.	FRONT TIRES**	
At service intervals 8 U.S. qts.	Row-crop 6.00 - 16, 6-ply rati	ing
Transmission-hydraulic system (add approx. 4-1/2 U.S. gals. for Power Front-Wheel Drive):	Standard 7.50 - 16, 6-ply rati	ing
Syncro-Range Dry system 11 U.S. gals.	REAR TIRES**	
At service intervals 8 U.S. gals.  Power Shift Dry system 14 U.S. gals.  At service intervals 11 U.S. gals.	Row-crop	ing
Cooling system	FRONT WHEEL TREAD See page	18
Belt pulley2-1/2 U.S. pints	REAR WHEEL TREAD:	
Delt pulley	Regular and offset wheels See page	19
SYNCRO-RANGE TRANSMISSION:	Double wheels See page	21
Type Syncro-Range, constant mesh		
Gear selections 8 forward and 2 reverse	DIMENSIONS Row-Crop Standard	
Shifting 4 stations, synchronized shift-	Wheel base 90 in. 81-1/2 or 92-3/4 in. Over-all length 140 in. 140-1/4 in.	ın.
ing within stations	Over-all height 87-1/2 in. 88-3/8 in.	
POWER SHIFT TRANSMISSION:	Height to steer-	
Type Planetary gears, hydraulically	ing wheel 77-1/8 in. 77-1/8 in.	
actuated wet disk clutches	Width (regular	
and brakes	axie) $89-5/8$ in. $89-5/8$ in.	
Gear selections 8 forward and 4 reverse	Turning radius 101 in. 111 in.	
Shifting Hydraulic, powershifting con-	CHIDDRIC WEIGHT With a second for a second first	
trolled by speed selector	SHIPPING WEIGHT (With equipment for average field service, less fuel and ballast.) Add 225 lbs. if tractor has	
POWER FRONT WHEEL DRIVE:	Power Shift transmission. Add approx. 1000 lbs.	
Type Hydraulic motor driven with planetary gear	equipped with Power Front Wheel Drive:	
reduction in wheel hub, uses pressure		
oil from hydraulic system	Row-Crop Standard	
Torque Low (series connected) and high (parallel	Diesel 7610 lbs. 7560 lbs.	
connected)	Gasoline 7395 lbs. 7345 lbs. LP-Gas 7545 lbs. 7495 lbs.	
Controls Solenoid operated control valves, synchro- nized with transmission controls	DF-Gas 1545 108. 1495 108.	
mized with transmission controls	**Additional tires sizes available.	
POWER TAKE-OFF:		
Type Independent PTO with front and mid power take-off. Stub	Specifications and design subject to change without notice.	•
shafts used for rear PTO	•	
speed conversion on dual		
speed PTO.		
Speed (2100 engine rpm) Mid-1000 rpm		
Dual speed rear—540 or 1000 rpm Single speed rear—1000 rpm		
Single speed rear—1000 rpm		

Specifications and design subject to change without notice.

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