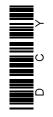
3020 ROW-CROP UTILITY AND GROVE AND ORCHARD TRACTORS (SERIAL NO. 68000-UP)





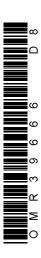
OPERATORS MANUAL

3020 ROW-CROP UTILITY AND GROVE AND ORCHARD TRACTORS (SERIAL NO. 68000-UP)

OMR39666 D8 English

JOHN DEERE TRACTOR WORKS OMR39666 D8

> LITHO IN THE U.S.A. 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.

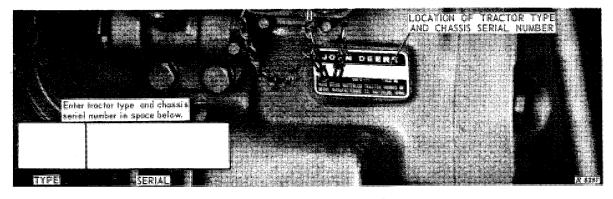
We are confident this modern tractor, combined with equally advanced John Deere tools and implements, will help you to farm better, easier, and more profitably.

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.

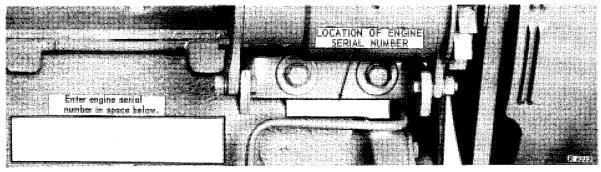
Information concerning the warranty on this tractor will be found on the inside back cover of this manual, and in your copy of the delivery receipt which you should have received from your dealer when the tractor was delivered to you.

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, and complete engine serial number. For ready reference, locate and record the above information in the spaces provided in the illustrations below.



Tractor Chassis Serial Number

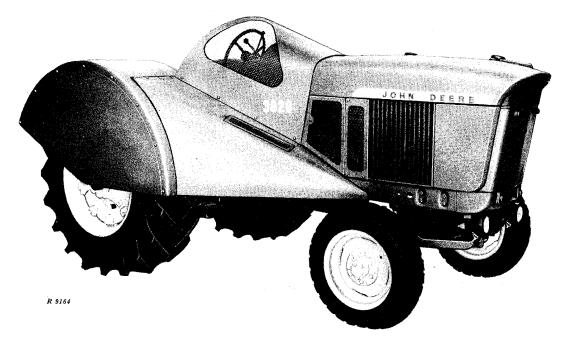


Engine Serial Number



CONTENTS

	Page
SPECIFICATIONS	2
CONTROLS AND INSTRUMENTS	4
OPERATION	5
SAFETY RULES	36
FUELS AND LUBRICANTS	38
LUBRICATION AND PERIODIC SERVICE	42
SERVICE	53
TRACTOR STORAGE	71
TROUBLE SHOOTING	72
INDEX	79



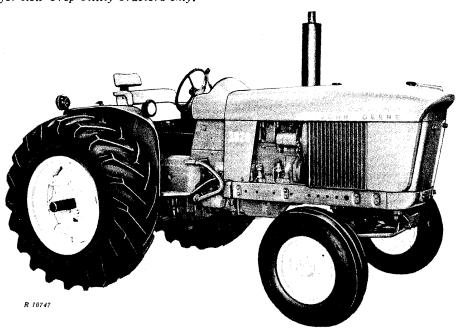
John Deere 3020 Grove and Orchard Tractor with Gasoline Engine



SPECIFICATIONS

HORSEPOWER (observed):	Diesel	Gasoline	LP-Gas***	
PTO (Syncro-Range Transmission)*	70 h.p.	70 h.p.	70 h.p.	
PTO (Power Shift Transmission)**	65 h.p.	64 h.p.	64 h.p.	
Drawbar (Power Shift Transmission)**	57 h.p.	55 h.p.	56 h.p.	
ENGINE:				
Type	4-cylinder, in-line, valve-in-head			
Engine speeds:				
Idle for engine shutoff		420 rpm	500 rpm	
Normal slow idle	600 rpm	650 rpm	650 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. x 4 in.	4-1/4 in. x 4 in.	
Displacement	270 cu. in.	227 cu. in.	227 cu. in.	
Compression ratio	16.5 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.	0.028 in.	
Injection pump timing	TDC			
Distributor timing (see page 60 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:				
Starter and generator voltage	24 volts	12 volts	12 volts	
Lights and accessory voltage	12 volts	12 volts	12 volts	
12-volt battery, 78-plate, 75 amp-hour	Two (connected in series)	One	One	

- Maximum observed PTO horsepower at 2500 engine rpm (factory observed).
- ** Above observed horsepower figures are official at 2500 engine rpm.
 *** Available for Row-Crop Utility Tractors only.

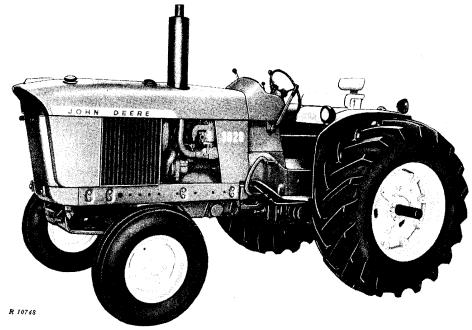


John Deere 3020 Row-Crop Utility Tractor with Gasoline Engine and Syncro-Range Transmission

COOLING SYSTEM: Type Pressurized with centrifu-	HYDRAULIC SYST	EM: Closed center	. constant pres-	
gal pump	-51		es power steer-	
Engine temperature control Heavy-duty thermostat			rakes, and im-	
LUBRICATION SYSTEM Force-feed pressurized type		plement cont	rol	
with full-flow oil filter	Maximum pressu	re	2250 psi	
CAPACITIES:				
Fuel tank Diesel and gasoline— 29 U.S. gals. LP-Gas (80% full)— 33.6 U.S. gals.	BRAKES	Hydraulically p disk-type, ope		
Crankcase Dry System — 9 U.S. qts.	Chomin anning		~	
At service intervals— 8U.S. qts.	GROUND SPEEDS	· · · · · · · · · · · · · · · · · · ·	. See page 12	
Transmission-hydraulic system: Syncro-Range Dry System— 11 U.S. gals.	EDOME STREET			
At service intervals— 8 U.S. gals.	FRONT TIRES**.		5.50 - 16, 6-ply	
Power Shift Dry System— 14 U.S. gals.	REAR TIRES**			
At service intervals— 11 U.S. gals.	Row-Crop Utility		14.9 - 28, 6-ply	
Oil-bath air cleaner Diesel— 4 U.S. pints	Orchard		16.9 - 26, 6-ply	
Gasoline and LP-Gas-2-1/4 U.S. pints				
Cooling system	FRONT WHEEL TF	EAD	See page 16	
SYNCRO-RANGE TRANSMISSION:	REAR WHEEL TR	EAD	. See page 17	
Type Syncro-Range, constant mesh			. •	
Gear selections 8 forward and 2 reverse	DIMENSIONS	Row-Crop Utility	Orchard	
Shifting 4 stations, synchronized shifting	Wheel base	81-1/2 or $92-3/4$ in.	81-1/2 in.	
within stations	Over-all length	138-1/2 in.	139 in.	
POWER SHIFT TRANSMISSION: *	Over-all height	85-1/2 in.	68 in.	
Type Planetary gears, hydraulically	Height to steer-			
actuated wet disk clutches and	ing wheel	66-1/2 in.	65-1/2 in.	
brakes	Width (regular			
Gear selections 8 forward and 4 reverse	axle)	89-5/8 in.	81 in.	
Shifting Hydraulic, powershifting control- led by speed selector	Turning radius	120 in.	120 in.	
POWER TAKE-OFF:	SHIPPING WEIGHT	(With equipment for ave	rage fieldserv-	
Type Independent PTO with front		nd ballast. Add 330 lbs		
and rear power take-off.	Power Shift trans	mission:		
Stub shafts used for rear		Row-Crop Utility	Orchard	
dual speed PTO speed con-	Diesel	7399 lbs.	6481 lbs.	
version	Gasoline	7204 lbs.	6360 lbs.	
Speed (1900 engine rpm) Front—1000 rpm Dual speed rear—540 or 1000 rpm	LP-Gas*	7374 lbs.		
Single speed rear-1000 rpm	**Additional tires available for special purposes.			
*Available for Row-Crop Utility Tractors Only.	Specifications and design subject to change without notice.			

^{*}Available for Row-Crop Utility Tractors Only.

Specifications and design subject to change without notice.



John Deere 3020 Row-Crop Utility Tractor with Gasoline Engine and Syncro-Range Transmission

Thank you so much for reading. Please click the "Buy Now!" button below to download the complete manual.



After you pay.

You can download the most perfect and complete manual in the world immediately.

Our support email: ebooklibonline@outlook.com