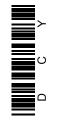
John Deere 3020 Row Crop Standard and Hi-Crop Tractors (Serial No. 123000-)





OPERATORS MANUAL

John Deere 3020 Row Crop Standard and Hi-Crop Tractors (Serial No. 123000-)

OMR46012 Issue B9 English

John Deere Waterloo Works OMR46012 Issue B9

LITHO IN 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.

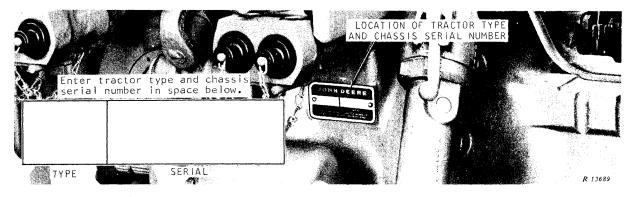
We are confident this modern tractor, combined with equally advanced John Deere tools and implements, will help you to farm better, easier, and more profitably.

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.

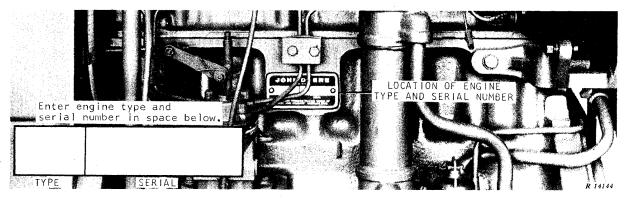
The warranty of this tractor appears on your copy of the purchase order which you should have received from your dealer when you purchased the tractor.

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.



Tractor Type and Chassis Serial Number



Engine Type and Serial Number



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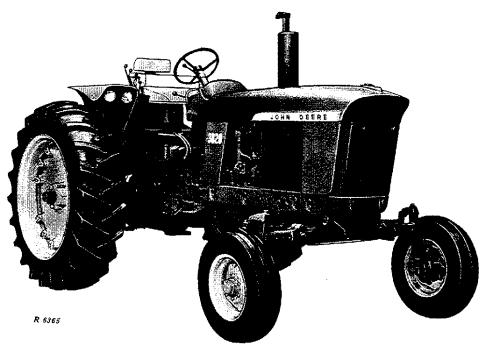
John Deere 3020 Standard Tractor with Gasoline Engine



SPECIFICATIONS

HORSE POWER (observed):* PTO (Syncro-Range Transmission) PTO (Power-Shift Transmission) Drawbar (Power-Shift Transmission).	Diesel 70 h.p. 65 h.p. 57 h.p.	Gasoline 70 h.p. 64 h.p. 55 h.p.	LP-Gas 70 h.p. 64 h.p. 56 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. x $4-3/4$ in.	$4-1/4$ in. $\times 4-1/4$ in.	4-1/4 in. x 4-1/4 ir
Displacement	270 cu. in.	241 cu. in.	241 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. (hot)	0.0 28 in. (hot)
Injection pump timing	TDC		
Distributor timing (see page 64 for			
engine speed)		20° BTDÇ	25° BTDC
Distributor point gap		0.022 in.	0.0 22 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 series)	One	One

^{*}Maximum observed horsepower at 2500 engine rpm (factory observed).



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

COOLING SYSTEM	HYDRAULIC SYSTEM:		
Type Pressurized with centrif- ugal pump	Type	Closed	center, constant pres- Includes power steer-
Engine temperature control Heavy-duty thermostat		ing,	power brakes, and im- ent control
LUBRICATION SYSTEM Force-feed pressure- ized type with full-flow	Maximum pressure		2250 psi
oil filter	BRAKES Hydraulically power actuated, disk-type, operating in oil		
CAPACITIES:			
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	<i></i> .	6.00 - 16, 6-ply
Transmission-hydraulic system (add approx. 4-1/2 U.S. gals. for Power Front-Wheel Drive):		• • • • • • • • • •	7.50 - 16, 6-ply
Syncro-Range Dry system 11 U.S. gals.	REAR TIRES**		
At service intervals 8 U.S. gals.	Row-crop		
Power Shift Dry system 14 U.S. gals.	Standard 18.4 - 30, 6-ply		
At service intervals 11 U.S. gals.	EDONE UNITED TOPAD		
Cooling system	FRONT WHEEL TREAD See page 18		
Belt pulley	REAR WHEEL TREAD:		
Dott paties	Regular and offset wheels See page 19		
SYNCRO-RANGE TRANSMISSION:			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.
ing within stations	Over-all length	140 in.	140-1/4 in.
	Over-all height	87-1/2 in.	88-3/8 in.
POWER SHIFT TRANSMISSION:	Height to steer-	4 /	/
Type Planetary gears, hydraulically	ing wheel	77-1/8 in.	77-1/8 in.
actuated wet disk clutches and brakes	Width (regular axle)	89-5/8 in,	89-5/8 in.
Gear selections 8 forward and 4 reverse	Turning radius	101 in.	111 in.
Shifting	Turning Tadius	101 111.	111 III.
trolled by speed selector	SHIPPING WEIGHT (With equipment for average field serv-		
· · · · · · · · · · · · · · · · · · ·	ice, less fuel and bal	last). Add 2251	bs. if tractor has Power
POWER FRONT WHEEL DRIVE:			if equipped with Power
Type Hydraulic motor driven with planetary gear	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) Controls Solenoid operated control valves, synchro-	Gasoline LP-Gas	7395 lbs. 7545 lbs.	7345 lbs. 7495 lbs.
nized with transmission controls	LP-Gas	7345 108.	7495 IDS.
miled with transmission controls	**Additional tires avo	rilable for she	rial burboses
POWER TAKE-OFF:	114411111141111111111111111111111111111	accused for open	out pur poode.
Type Independent PTO with front and	Specifications and des	sign subject to	change without notice.
mid power take-off. Stub	- ·	-	
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			

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