

#### **JD500 TRACTORS**



#### **OPERATORS MANUAL** JD500 TRACTORS

OMR34408 F4 English



JOHN DEERE WATERLOO WORKS OMR34408 F4

> LITHO IN THE U.S.A. ENGLISH



### TO THE PURCHASER

Your new John Deere JD500 Tractor is an entirely new concept of power. Built to the traditionally high standards of John Deere, this versatile tractor meets today's exacting requirements.

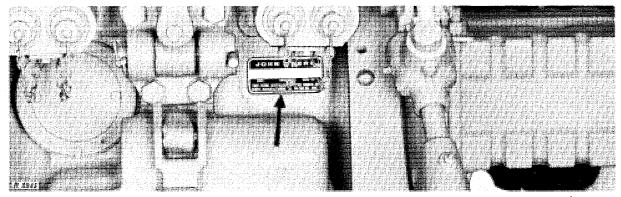
Outstanding ease of operation, the ability to match engine power and speed to the job, operating comfort, hydraulic power when and where you need it, simplicity of lubrication and service, modern styling, and economical, dependable service are all features of this great tractor.

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 advantage of its many time- and labor-saving features. After reading this manual, keep it in a convenient place together with the tractor parts list and any equipment operator's manual and parts list that are used with the tractor. This will assure you quick and easy reference if questions arise concerning operation, lubrication, or service. References to the right or left side of the tractor are as viewed from behind the tractor.

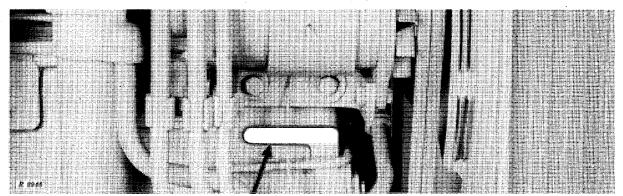
The service policy which you received with your tractor certifies that the tractor was properly inspected and prepared for delivery by your John Deere dealer. Keep this policy in a safe place and present it to the dealer whenever services which it authorizes are required.

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 engine serial number, the tractor chassis serial number, and the tractor series number. For ready reference, locate and record the serial numbers in the spaces provided in the following illustrations.



Record Tractor Chassis Serial Number



**Record Engine Serial Number** 



# SPECIFICATIONS

Diesel

80.0 h.p.

HORSEPOWER (at 2500 rpm)		
Observed net engine flywheel		
ENGINE:		
Туре		
Engine speeds:		
Idle for engine shutoff		
Normal slow idle		
Working speeds		
Bore and stroke		
Displacement		
Compression ratio		
Firing order		
Intake valve clearance		
Exhaust valve clearance		
Injection pump timing		
Distributor timing		
Distributor point gap		
Spark plug gap		
ELECTRICAL SYSTEM:		
Starter, generator voltage		
Lights, accessory voltage		
12-volt battery, 78-plate, 75 ampere-hour		

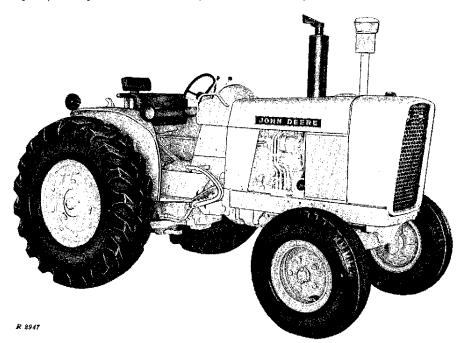
600 rpm 1500 to 2500 rpm 4-1/4 in. x 4-3/4 in. 270 cu. in. 16.5 to 1 1-3-4-2 0.018 in. 0.018 in. TDC

4-cylinder, in-line, valve-in-head

24 volts 12 volts Two (connected in series) Gasoline 77.7 h.p.

420 rpm 650 rpm 1500 to 2500 rpm 4-1/4 in. x 4 in. 227 cu. in. 7.5 to 1 1-3-4-2 0.015 in. 0.028 in. ..... 20 degrees BTDC at 2200 rpm 0.022 in. 0.025 in.

12 volts 12 volts One



John Deere JD500 Tractor with Diesel Engine and Power Shift Transmission



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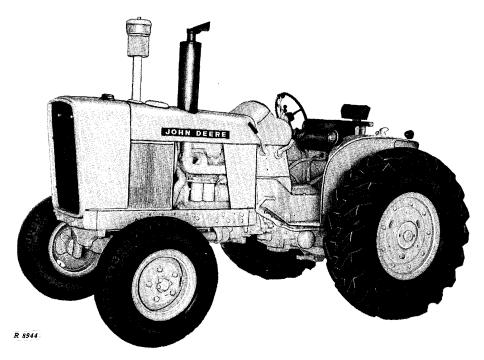
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#### Specifications 3

Type Pressurized with centrifugal pump   Engine temperature control Heavy-duty thermostat   LUBRICATION SYSTEM: Force-feed pressurized   type with full-flow oil filter   CAPACITIES (Tractor Only):   Cooling sustem
Engine temperature control Heavy-duty thermostat LUBRICATION SYSTEM: Force-feed pressurized type with full-flow oil filter CAPACITIES (Tractor Only):
type with full-flow oil filter CAPACITIES (Tractor Only):
filter CAPACITIES (Tractor Only):
•
Cooling gustom 10 U.S. gtu
Cooling system
Fuel tank
Crankcase Dry system-9 U.S. qts.
At service intervals-8 U.S. qts.
Transmission-hydraulic system:
Collar Shift Dry system-11-1/2 U.S. gals.
At service intervals— 8 U.S. gals.
Power Shift Dry system $-14-1/2$ U.S. gals.
At service intervals–11 U.S. gals.
Air cleaner Diesel-4 U.S. pts.
Gasoline-2-1/4 U.S. pts. Belt pulley 2-1/2 U.S. pts.
COLLAR SHIFT TRANSMISSION:
Type Collar Shift, constant mesh   Gear selections 8 forward and 2 reverse
Shifting
shifting in each station
POWER SHIFT TRANSMISSION:
Type Planetary gears, hydraulically
actuated wet disk clutches and
brakes
Gear selections
Shifting Hydraulic powershifting controlled
by right-hand speed selector and
by left-hand reverser lever
GROUND SPEEDS See page 11

POWER TAKE-OFF:
Type Independent PTO with front
and rear power take-off. Stub
shafts used for rear PTO
conversion on dual speed
РТО
Speed (2100 engine rpm) Front-1000 rpm
Dual speed rear-540 or 1000 rpm
Single speed rear-1000 rpm
HYDRAULIC SYSTEM:
Type Closed center, constant pres-
sure. Includes power steering,
power brakes and equipment control
Maximum pressure
BRAKES: Hydraulically power actuated,
disk-type, operating in oil
FRONT TIRES
Size
REAR TIRES
Size 14.9-28, 8-ply
(Additional size tires available for special requirements.)
FRONT WHEEL TREAD 56 in.
REAR WHEEL TREAD 64 and 74 in.
DIMENSIONS:
Wheel base
Over-all length 126-1/2 in
Over-all height
Height to steering wheel 65 in.
Width
Turning radius
SHIPPING WEIGHT (Collar Shift Tractors equipped for
average service, less fuel and ballast. Add 328 pounds if
tractor has Power Shift transmission): Diesel-6945 lbs.
Gasoline-6805 lbs.
(Specifications and design subject to change without notice.)

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John Deere JD500 Tractor with Diesel Engine and Power Shift Transmission

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