

John Deere 1530 Tractor



TECHNICAL MANUAL

John Deere 1530 Tractor

TM4280 (01Mar73) English

John Deere Waterloo Works TM4280 (01Mar73)

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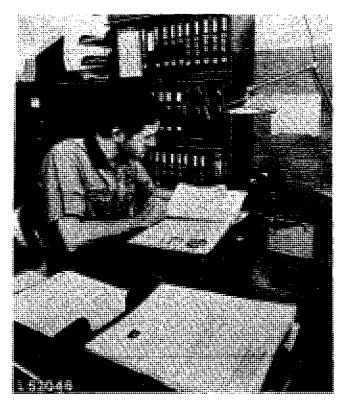
Tractor 1530

Technical Manual
TM-4280 (March-73)

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INTRODUCTION



Use FOS Manuals for Reference

This technical manual is part of a twin concept of service:

- FOS Manuals for reference
- Technical Manuals for actual service

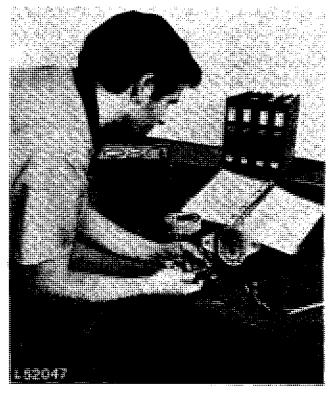
The two kinds of manuals work as a team to give you both the general background and technical details of shop service.

Fundamentals of Service (FOS) Manuals cover basic theory of operation, fundamentals of trouble shooting, general maintenance, and basic types of failures and their causes. FOS Manuals are for training new men and for reference by experienced

Technical Manuals are concise service guides for a specific machine. Technical Manuals are on-the-job guides containing only the vital information needed by a journeyman mechanic.



When a serviceman should refer to a FOS Manual for more information, a FOS symbol like the one at the left is used in the TM to indentify the reference.



Use Technical Manuals for Actual Service

Some features of this technical manual:

- Table of contents at front of whole Manual.
- Contents at front of each Section
- Exploded views showing parts relationship
- Photos showing service techniques
- Specifications at end of each Group
- Special tools at end of each Group

This technical manual was planned and written for you - a journeyman mechanic. Keep it in a permanent binder in the shop where it is handy. Refer to it whenever in doubt about correct service procedures or specifications.

Using the technical manual as a guide will reduce error and costly delay. It will also assure you the best in finished service work.



safety alert symbol indicates 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.

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Group 5

SPECIFICATIONS

SERIAL NUMBERS

The engine serial number is stamped into the name plate at the lower right of the front cylinder block.

NOTE: If ordering engine parts, indicate all digits of the serial number on the name plate.

The name plate showing the tractor serial number is located on the right-hand side of the front support.

NOTE: If ordering tractor parts, (excluding engine parts), indicate all digits of the serial number on the name plate.

MODEL NUMBERS

The injection pump, injection nozzles, the alternator, starter and the hydraulic pump have model numbers to facilitate identification of different makes of a given unit.

SPECIFICATIONS

ENGINE
Number of cylinders $\dots 3$
Cylinder liner bore 102 mm (4.02 in.)
Stroke
Displacement 2690 cm^3 (164 cu.in.)
Compression ratio 16.2:1
Maximum torque at 1500 rpm 17.0 mkp (123 ft.lbs.)
Firing order
Valve clearance (engine hot or cold) Intake valve 0.35 mm (0.014 in.) Exhaust valve 0.45 mm (0.018 in.)

Fast idle	•	•	•	٠		•	•		•	•	٠		•			•	2650	rpm
Slow idle	•							•						•			650	rpm
Working sp	ee	d 1	raı	ng	e			•			•	1	50	0	to	> :	2500	rpm
PTO power (at 2500 rp 650 rpm po	m	eı	ıg	in	e s	sp	ee	\mathbf{d}	ar			•	4	6]	HF	'	(34.3	kw)

ENGINE CLUTCH

Dual dry disk clutch, foot-operated

Single dry disk clutch with torsion damper (isolator), foot-operated (on tractors with independent PTO)

ELECTRICAL SYSTEM

BBB INICIE STOTEM
Batteries 2 x 12 volts, 55 ampere-hours
or
Starter 12 volts, 4 HP
Alternator 14 volts, 28 amps.
Battery terminal grounded negative

^{*} With the engine run in (more than 100 hours of operation) and having reached operating temperature (engine and transmission); measured by means of a dynamometer. Permissible variation ± 5 %.

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