



1520 Tractor



TECHNICAL MANUAL 1520 Tractor

TM1012 (01JAN71) English



John Deere Tractor Works
TM1012 (01JAN71)

LITHO IN U.S.A.
ENGLISH



1520 TRACTOR

TECHNICAL MANUAL

TM-1012 (Jan-71)

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INTRODUCTION



Use FOS Manuals for Reference



Use Technical Manuals for Actual Service

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 men.


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 identify the reference.

Some features of this technical manual:

- *Table of contents at front of whole manual*
- *Contents at front of each Section*
- *Specifications at end of each Group*
- *Special tools at end of each Group*

 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.

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.

Section 10 GENERAL

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Group 5

GENERAL TRACTOR SPECIFICATIONS

	Gasoline	Diesel		
ENGINE			ELECTRICAL SYSTEM	
Maximum PTO horse- power*	47.86	46.52	Battery dry voltage	12 volts
Number of cylinders	3	3	Battery specific gravity at full charge (corrected to 80°F.)	1.260
Bore and stroke, inches	4.02 x 4.33	4.02 x 4.33	Battery terminal grounded	negative
Displacement in cubic inches	164.0	164.0	CAPACITIES (U.S. Standard Measures)	
Compression ratio	8.0 to 1	16.3 to 1	Fuel tank	19-1/2 gals.
Firing order	1-2-3	1-2-3	Cooling system	3 gals.
Intake valve clearance	0.014-in.	0.014-in.	Crankcase (including filter)	6 qts.
Exhaust valve clear- ance	0.022-in.	0.018-in.	Transmission-hydraulic system	10 gals.
Slow idle	600 rpm	800 rpm	Belt pulley	2-1/2 pts.
Fast idle	2680 rpm	2650 rpm	CLUTCH	Single or dual stage, spring-loaded, dry disk, foot-operated.

* Official test at 2500 engine rpm.



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for your reading.
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to get more information.