



6030 Tractor



TECHNICAL MANUAL 6030 Tractor

TM1052 (01MAR83) English



**John Deere Tractor Works
TM1052 (01MAR83)**

LITHO IN U.S.A.
ENGLISH



6030 TRACTOR

TECHNICAL MANUAL

TM-1052 (JAN-73)

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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 manual*
- *Exploded views showing parts relationship*
- *Photos showing service techniques*
- *Specifications grouped for easy reference*

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.



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.

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Group 5

GENERAL TRACTOR SPECIFICATIONS

PTO HORSEPOWER:

- * Tractors with 6531A engine 175.99
- * * Tractors with 6531D engine 141

ENGINE:

- Type 6-cylinder, in-line, valve-in-head
- Bore and stroke 4-3/4 in. x 5 in.
- Displacement 531 cu. in.
- Compression ratio 15.4 to 1
- Firing order 1-5-3-6-2-4
- Valve clearance Intake - 0.018 in.
Exhaust - 0.028 in.
- Slow idle speed 800 rpm
- Fast idle speed:
 - 6531A engine 2300 rpm
 - 6531D engine 2400 rpm
- Timing (Injection Pump) 27° BTDC (6531A)
or TDC (6531D)

LUBRICATION SYSTEM Fully pressurized

- * Official test at 2100 rpm.
- * * Factory observed at 2200 rpm.

FUEL SYSTEM:

- Type Direct injection
- Filters Dual Master filters with two-stage filtration

Injection pump:

- Robert Bosch (6531A) Multiple plunger in-line
- Roosa Master (6531D) Inlet metering distributing type

AIR INTAKE SYSTEM:

- Air cleaner Dry-type with safety filter

COOLING SYSTEM:

- Type Pressurized with centrifugal pump, engine temperature control, heavy-duty thermostats



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for your reading.
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to get more information.