



4620 Tractor



TECHNICAL MANUAL 4620 Tractor

TM1030 (01Apr76) English



TM1030 (01Apr76)

LITHO IN U.S.A.
ENGLISH



4620 TRACTOR

TECHNICAL MANUAL
TM-1030 (APR-76)

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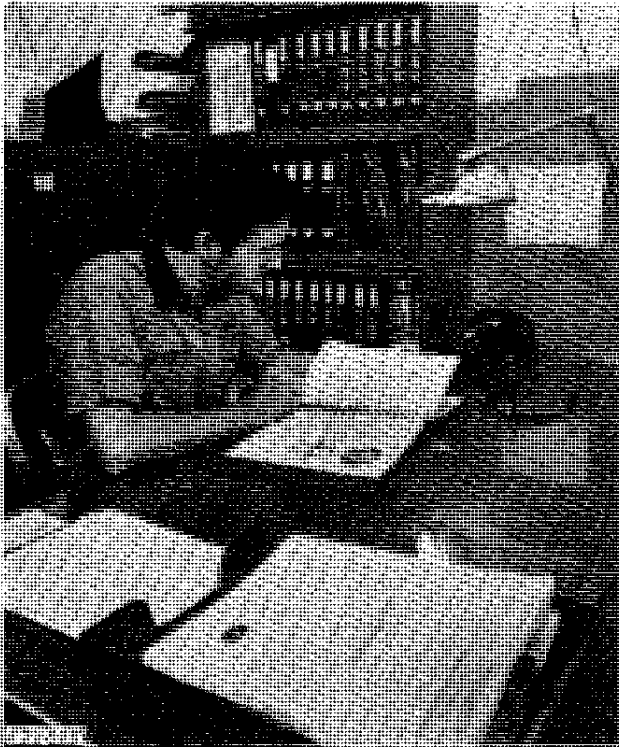
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INTRODUCTION



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**

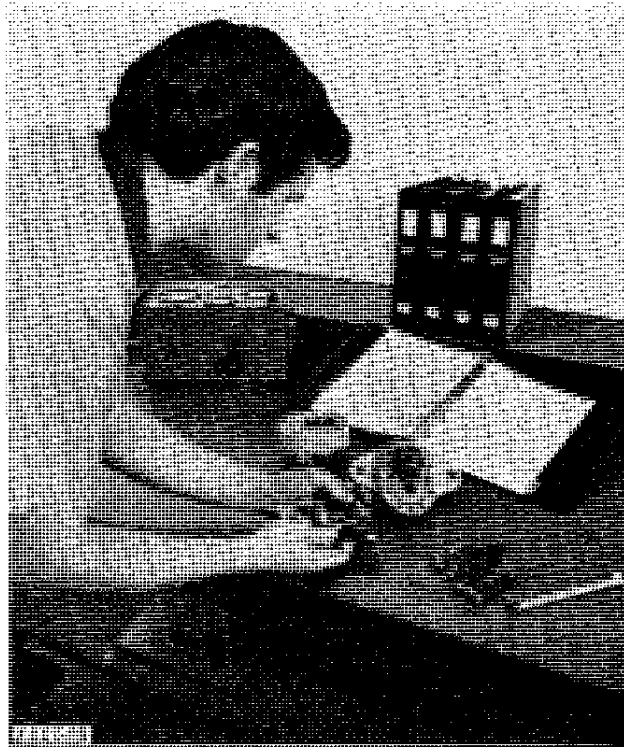
The two kinds of manuals work as a team to give you both the general background and technical details of shop service.

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 personnel and for reference by experienced technicians.

Technical Manuals are *concise* service guides for a *specific* machine. Technical Manuals are on-the-job guides containing only the vital information needed by an experienced technician.



When a service person 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.



Use Technical Manuals for Actual Service

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—an experienced technician. 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.

Section 10 GENERAL

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Group 5 GENERAL TRACTOR SPECIFICATIONS

HORSEPOWER:*

Syncro-Range	135
Power Shift	135

ENGINE:

Type	6-cylinder, in-line, valve-in-head, diesel, turbocharged
Bore and stroke	4-1/4 in. x 4-3/4 in.
Displacement	404 cu. in.
Compression ratio	16.8 to 1
Firing order	1-5-3-6-2-4
Valve clearance	Intake-0.018 in. Exhaust-0.028 in.

Injection pump timing	TDC
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Engine Speeds:

Working range	1500 to 2200 rpm
Maximum transport speed	2500 rpm
Engine speeds:	
Slow idle	800 rpm
1900 rpm load	2150 rpm idle
2200 rpm load	2400 rpm idle
2500 rpm load	2650 rpm idle

LUBRICATION SYSTEM:	Full pressurized with full-flow micronic oil filter, water cooled oil cooler, and bypass valves for filter and cooler.
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* Factory observed hp. measured at the PTO at 2200
engine rpm

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FUEL SYSTEM:

Type	Direct injection
Filter	Two-stage with replaceable impregnated paper element.
Injection pump type	Inlet metering, distributing type

Air cleaner	Dry type, with safety element
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COOLING SYSTEM:

Type	Pressurized with centrifugal pump
Temperature control	Heavy-duty thermostats

CAPACITIES:

Fuel tank	50 U.S. gals.
Cooling system	28 U.S. qts.
Crankcase (with filter change)	17 U.S. qts.
Transmission-hydraulic system (add 4-1/2 gals. to capacity if equipped with Power Front -Wheel Drive):	
Syncro-Range Transmission	18 U.S. gals.
Power Shift Transmission	16 U.S. gals.

SYNCO-RANGE TRANSMISSION:

Type	Syncro-Range, constant mesh
Clutch	14-3/4 in. plate, foot operated foot operated
Gear selections	8 forward and 2 reverse
Shifting	4 stations, synchronized shifting within forward gears



Thank you very much
for your reading.
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to get more information.