

300 Series OEM Engines



TECHNICAL MANUAL 300 Series OEM Engines

TM1190 (01DEC84) English



John Deere Engine Works
TM1190 (01DEC84)

LITHO IN U.S.A.
ENGLISH



300 SERIES OEM ENGINES

Technical Manual
TM-1190 (Dec-84)

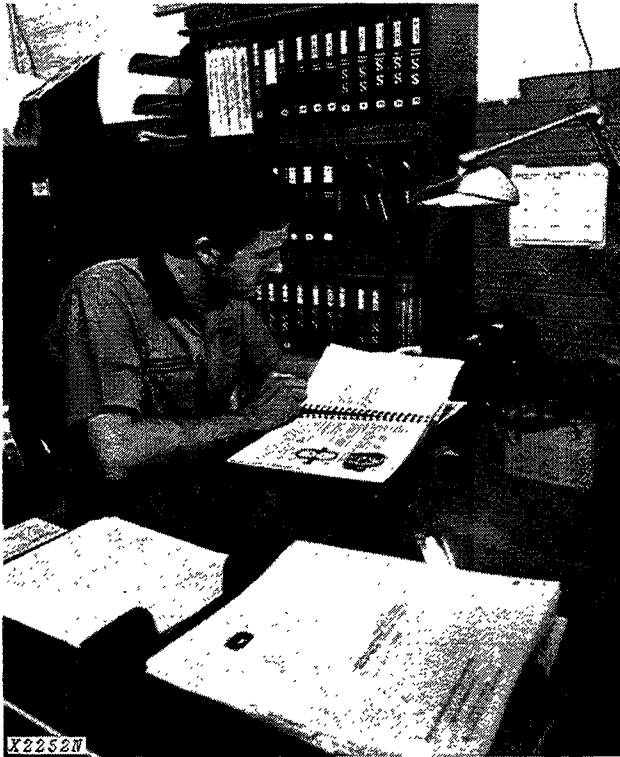
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The specifications and design information contained in this manual were correct at the time it was printed. It is John Deere's Policy to continually improve and update our machines. Therefore, the specifications and design information are subject to change without notice. Wherever applicable, specifications and design information are in accordance with SAE and ICED standards.

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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:

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

•FOS Manuals—for reference

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 service technicians.



When a service technician 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.

•Technical Manuals—for actual service

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 service technician.

This technical manual was planned and written for you—an experienced service 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.

Some features of this manual:

- Inside front cover - "Table of Contents".
- Section I - Contents
- Sections 4 through 40 - Removal, repair, testing (components removed), installation, and adjustment.
- Section 90 - Detailed explanation of system operation, diagnosis, visual inspection, testing, and adjustments.
- Specifications grouped and illustrated at the end of each section.

SECTION AND GROUP CONTENTS OF THIS MANUAL

SECTION I - GENERAL INFORMATION

Group I - Contents

SECTION 4 - ENGINE

Group 0400 - Removal and Installation
Group 0401 - Crankshaft and Main Bearings
Group 0402 - Camshaft and Valve Actuating Means
Group 0403 - Connecting Rods and Pistons
Group 0404 - Cylinder Block
Group 0407 - Oiling System
Group 0408 - Ventilating System
Group 0409 - Cylinder Head and Valves
Group 0410 - Exhaust Manifold
Group 0413 - Fuel Injection System
Group 0414 - Intake Manifold
Group 0415 - Engine Balancer
Group 0416 - Turbocharger
Group 0417 - Water Pump
Group 0418 - Thermostats, Housing and Piping
Group 0419 - Engine Oil Cooler
Group 0420 - Fuel Filter
Group 0421 - Fuel Transfer Pump
Group 0422 - Starting Motor and Fastening
Group 0423 - Alternator and Generator Mountings
Group 0429 - Fan Drive
Group 0433 - Flywheel, Housing and Fastenings
Group 0499 - Specifications and Special Tools

SECTION 5 - ENGINE AUXILIARY SYSTEMS

Group 0510 - Cooling Systems
Group 0515 - Speed Controls
Group 0520 - Intake Systems
Group 0599 - Specifications and Special Tools

SECTION 16 - ELECTRICAL SYSTEMS

Group 1672 - Alternator, Regulator and Charging System Wiring
Group 1674 - Wiring Harness and Switches
Group 1676 - Instruments and Indicators
Group 1699 - Specifications and Special Tools

SECTION 19 - SHEET METAL AND STYLING

Group 1910 - Hood or Engine Enclosure

SECTION 40 - PTO DRIVE

Group 4052 - PTO Clutch
Group 4099 - Specifications and Special Tools

SECTION 90 - SYSTEM TESTING

Group 9010 - Engine
Group 9015 - Electrical System
Group 9035 - Specifications and Special Tools

OEM ENGINES SERVICED BY THIS TECHNICAL MANUAL

3-164D
3-179D
4-219D
4-239D
4-239T
4-276D

4-276T
6-329D
6-359D
6-359T
6-414D
6-414T



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