

# 300 Series OEM Engines



# **TECHNICAL MANUAL**

300 Series OEM Engines

TM1190 (01DEC84) English



John Deere Engine Works TM1190 (01DEC84)

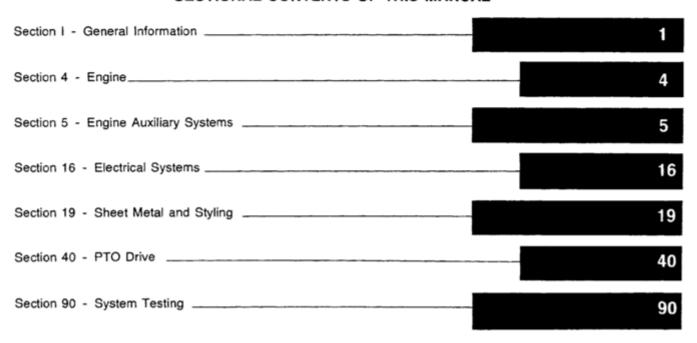
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## 300 SERIES OEM ENGINES

Technical Manual TM-1190 (Dec-84)

### SECTIONAL CONTENTS OF THIS MANUAL



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

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.



Use Technical Manuals for Actual Service

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 ! 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 5 - ENGINE AUXILIARY SYSTEMS Group 0510 - Cooling Systems Group 0515 - Speed Controls
	SECTION 4 - ENGINE	Group 0515 - Speed Controls Group 0520 - Intake Systems
	Group 0400 - Removal and Installation	Group 0599 - Specifications and Special Tools
	Group 0401 - Crankshaft and Main Bearings	000000000000000000000000000000000000000
	Group 0402 - Camshaft and Valve Actuating	SECTION 16 - ELECTRICAL SYSTEMS
	Means	Group 1672 - Alternator, Regulator and Charging
	Group 0403 - Connecting Rods and Pistons	System Wiring
	Group 0404 - Cylinder Block	Group 1674 - Wiring Harness and Switches
	Group 0407 - Oiling System	Group 1676 - Instruments and Indicators
	Group 0408 - Ventilating System	Group 1699 - Specifications and Special Tools
	Group 0409 - Cylinder Head and Valves	f
	Group 0410 - Exhaust Manifold	SECTION 19 - SHEET METAL AND STYLING
	Group 0413 - Fuel Injection System	Group 1910 - Hood or Engine Enclosure
	Group 0414 - Intake Manifold	
	Group 0415 - Engine Balancer	SECTION 40 - PTO DRIVE
	Group 0416 - Turbocharger	Group 4052 - PTO Clutch
	Group 0417 - Water Pump	Group 4099 - Specifications and Special Tools
	Group 0418 - Thermostats, Housing and Piping	
	Group 0419 - Engine Oil Cooler	SECTION 90 - SYSTEM TESTING
	Group 0420 - Fuel Filter	Group 9010 - Engine
	Group 0421 - Fuel Transfer Pump	Group 9015 - Electrical System
	Group 0422 - Starting Motor and Fastening	Group 9035 - Specifications and Special Tools
	Group 0423 - Alternator and Generator Mountings	
	Group 0429 - Fan Drive	
	Group 0433 - Flywheel, Housing and Fastenings	
	Group 0499 - Specifications and Special Tools	

## OEM ENGINES SERVICED BY THIS TECHNICAL MANUAL

3-164D	4-276T
3-179D	6-329D
4-219D	6-359D
4-239D	6-359T
4-239T	6-414D
4-276D	6-414T



Thank you very much for your reading.

Please click here to get more information.