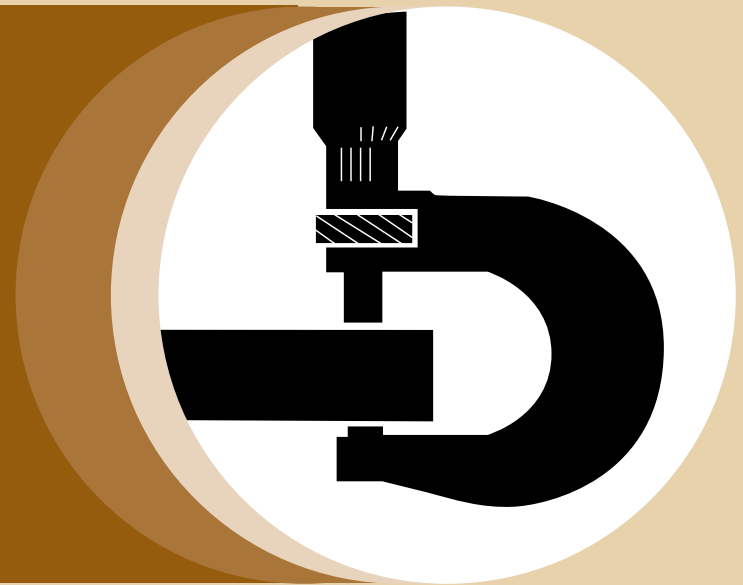


6076 Engines

Serial Number (—499999)

COMPONENT TECHNICAL MANUAL



PDF



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Deere Power Systems Group
CTM6 (03OCT91)

LITHO IN U.S.A.
ENGLISH



Introduction

FOREWORD

This manual is written for an experienced technician. Essential tools required in performing certain service work are identified in this manual and are recommended for use.

Live with safety: Read the safety messages in the introduction of this manual and the cautions presented throughout the text of the manual.



This is the safety-alert symbol. When you see this symbol on the machine or in this manual, be alert to the potential for personal injury.

Use this component technical manual in conjunction with the machine technical manual. An application listing identifies product-model/component type-model relationship. See the machine technical manual for information on component removal and installation, and gaining access to the components.

This manual is divided in two parts: repair and diagnostics. Repair sections contain necessary instructions to repair the component. Diagnostic sections help you identify the majority of routine failures quickly.

Information is organized in groups for the various components requiring service instruction. At the beginning of each group are summary listings of all applicable essential tools, service equipment and tools, other materials needed to do the job, service parts kits, specifications, wear tolerances, and torques.

Binders, binder labels, and tab sets can be ordered by John Deere dealers direct from the John Deere Distribution Service Center.

This manual is part of a total product support program.

FOS MANUALS—REFERENCE

TECHNICAL MANUALS—MACHINE SERVICE

COMPONENT MANUALS—COMPONENT SERVICE

Fundamentals of Service (FOS) Manuals cover basic theory of operation, fundamentals of troubleshooting, general maintenance, and basic type of failures and their causes. FOS Manuals are for training new personnel and for reference by experienced technicians.

Technical Manuals are concise guides for specific machines. Technical manuals are on-the-job guides containing only the vital information needed for diagnosis, analysis, testing, and repair.

Component Technical Manuals are concise service guides for specific components. Component technical manuals are written as stand-alone manuals covering multiple machine applications.

MANUAL ORGANIZATION

Group 00—Introduction and Safety Information
Group 01—General Information
Group 02—Fuels, Lubricants and Coolant
Group 03—Engine Mounting
Group 04—Engine Rebuild Guide
Group 05—Cylinder Head and Valves
Group 10—Cylinder Block, Liners, Pistons and Rods
Group 15—Crankshaft, Main Bearings, and Flywheel
Group 16—Camshaft and Timing Gear Train

Group 20—Lubrication System
Group 25—Cooling System
Group 30—Air Intake and Exhaust System
Group 35—Fuel System
Group 100—Tune-Up
Group 105—Engine System Operation and Test
Group 110—Air Intake System Operation and Test
Group 115—Fuel System Operation and Tests
Group 199—Dealer Fabricated Tools

Dealer Presentation Sheet

JOHN DEERE DEALERS

IMPORTANT: The important changes listed below make your current CTM obsolete. Discard CTM6, dated 15 Sep 89. Please remove this page and route through your service department.

Engine application charts have been updated to include new product models. See ENGINE APPLICATION CHART in Group 01.

Revised the engine oil module. See DIESEL ENGINE OIL in Group 02.

Revised the engine coolant module. See ENGINE COOLANT RECOMMENDATIONS in Group 02.

Revised valve lift specifications in Groups 05 and 105.

Included torque-turn procedure for tightening flanged-head cylinder head cap screws. See TORQUE-TURN FLANGED-HEAD CAP SCREWS in Group 05.

Added information on the manufacturing date codes stamped on cylinder liners. See INSTALL CYLINDER LINERS in Group 10.

Revised removal and installation procedures for the auxiliary drive in Groups 15 and 16.

Provided crankcase oil fill quantities for all 6076 engine applications. See ENGINE CRANKCASE OIL FILL QUANTITIES in Group 20.

Dealer Presentation Sheet

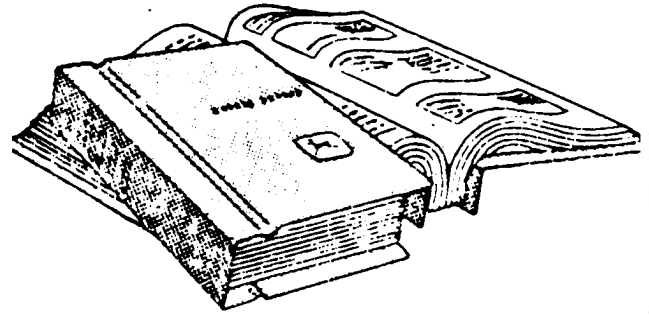
ABOUT THIS MANUAL

This Component Technical Manual (CTM6) covers the recommended repair procedure for all 6076, 7.6 L (466 cu. in.) diesel engines, serial no. (—499999), and produced in Waterloo, Iowa. For repair information on 6076 engines produced after serial no. (499999—) refer to CTM42.

Before beginning repair of an engine, clean engine and mount on a repair stand. (See ENGINE MOUNTING in Group 03.)

Some components of this engine may be serviced without removing the engine from the machine. Refer to the specific machine technical manuals for information or components that can be serviced without removing the engine from the machine and for engine removal and installation procedures.

Follow only the procedures that apply to the engine model number you are working on. If only one procedure is given, that procedure applies to all 6076 diesel engines in this manual.



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HANDLE FLUIDS SAFELY—AVOID FIRES

When you work around fuel, do not smoke or work near heaters or other fire hazards.

Store flammable fluids away from fire hazards. Do not incinerate or puncture pressurized containers.

Make sure machine is clean of trash, grease, and debris.

Do not store oily rags; they can ignite and burn spontaneously.



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