Series 400
6076AFD
Dual Fuel Engines

JOHN DEERE

COMPONENT TECHNICAL MANUAL

Series 400 6076AFD
Dual Fuel Engines

CTM93 (26SEP94) English

Deere Power Systems Group
CTM93 (26SEP94)

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 in the introduction 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 operation and tests. Repair sections contain necessary instructions to repair the component. Operation and tests 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 torque values.

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

Fundamental service information is available from other sources covering basic theory of operation, fundamentals of troubleshooting, general maintenance, and basic type of failures and their causes.

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ABOUT THIS MANUAL

This component technical manual covers the recommended repair procedure for 6076, 7.6 L (466 cu. in.) dual fuel engines produced in Waterloo, Iowa.

This manual contains the necessary instructions to diagnose the electrical and natural gas/diesel fuel portions of the Dual Fuel System.

Use this information in conjunction with the following CTMs:

- CTM6 — For general engine repair
- CTM68 — For electronic fuel injection diagnostics and repair
- CTM77 — For charging and starter systems diagnostics and repair

Before beginning repair of an engine, clean the engine and mount on a repair stand. (See Group 03 - Engine Mounting in CTM6.)

Direction of engine crankshaft rotation in this manual is referenced from the flywheel end looking toward the front. Front of engine is fan drive end.

Read each module completely before performing any service.

RG,CTM93,G0,1 -19-13SEP94

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All information, illustrations and specifications in this manual are based on the latest information available at the time of publication. The right is reserved to make changes at any time without notice.

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