

Series 400 6076AFD Dual Fuel Engines



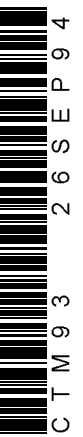
COMPONENT TECHNICAL MANUAL

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.

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.

Contents

	Page		Page
Group 00—Safety			
General	00-1	Function of System Components—Continued	
		Auxiliary Magnetic Speed Sensor	20-6
		Transient Voltage Protection (TVP) Module ..	20-7
Group 01—General Information			
Unified Inch Bolt and Cap Screw Torque		System Operation	
Values	01-1	Engine Start-up	20-8
Metric Bolt and Cap Screw Torque		Fuel Selection Modes	20-9
Values	01-2	Engine Shut Down	20-11
Engine Model Designation	01-3	Aftercooler System with External Heat	
Engine Serial Number Plate Information	01-4	Exchanger	20-12
		Diagnostic Features	
		Lamps and Connectors	20-14
Group 10—Dual Fuel System Introduction			
About the Dual Fuel System	10-1	Group 30—Dual Fuel System Diagnostics	
General Dual Fuel OEM Engine		Before You Start Diagnostics	30-1
Specifications	10-1	Dual Fuel System Schematic	
Natural Gas Recommendations	10-2	Wiring Diagram and Component	
System Power Requirements	10-2	Location Drawing Legend	30-2
ECU Environmental Restrictions	10-2	Functional Section Legend	30-3
Glossary of Terms	10-3	Functional Schematic	30-4
Component Serial Number Location		Dual Fuel System Wiring Diagram	
Electronic Control Unit	10-6	Control Panel Harness (WD1)	30-6
NG Governor	10-6	Link Controller Harness (WD2)	30-8
NG Rotary Actuator	10-6	Pump Harness (WD3)	30-9
Link Controller	10-7	Wiring Harness and Component	
		Location Drawing	30-10
		Diagnose Malfunctions of Dual Fuel	
		System	30-11
		NG Governor Speed Setpoint	
		Requirements	30-27
		ECU Torque Curve Chart	30-28
Group 20—Dual Fuel System Theory of Operation			
Function of System Components		Group 40—Dual Fuel System Repair	
Major Components Used	20-1	Service Equipment and Tools	40-1
Link Controller	20-1	Other Material	40-1
Engine Control Unit	20-2	Specifications	40-1
NG Governor	20-2	Disconnect and Connect Natural Gas	
NG Low Pressure Sensor	20-3	Supply	40-2
NG Pressure Regulator	20-4	Control Panel	
NG Metering Valve	20-4	Replace Lamps	40-3
NG Rotary Actuator	20-5	Remove and Install Switches	40-3
NG Shut-off Solenoid	20-5		
Intake Air Temperature Sensor	20-6		

Continued on next page

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.

CTM93-19-26SEP94

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Page

00

Engine Control Unit (ECU)
Remove and Install 40-4

01

Natural Gas Governor
Remove and Install 40-5

Link Controller
Remove and Install 40-6

10

Transient Voltage Protector (TVP) Module
Remove and Install 40-7

Natural Gas
Replace Filter 40-7

20

Remove and Install Low Pressure
Sensor 40-8

Remove and Install Shut-off Solenoid
Valve 40-9

30

Remove and Install Regulator 40-10

Remove and Install Metering Valve 40-12

40

Metering Valve
Remove and Install Linkage 40-13

Remove and Install Actuator 40-15

50

Flywheel Speed Sensor
Remove and Install 40-16

Remove and Install
Charge Air Temperature Switch 40-16

INDX

Link Wire Harness
Remove and Install 40-17

Operator's Panel Wire Harness
Remove and Install 40-19

Auxiliary Water Pump
Remove and Install 40-20

External Heat Exchanger Orifice Vent
Remove and Install 40-22

Group 50—Dual Fuel System Adjustments

Service Equipment and Tools 50-1

Adjust
NG Governor Gain 50-1

NG Regulator Outlet Pressure 50-2

NG Governor 50-5

Index

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