



JOHN DEERE

TECHNICAL MANUAL



POWERTECH
ENGINES

***POWERTECH*® 4.5 L & 6.8 L**

Diesel

Engines



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**Electronic
Fuel System with Denso HPCR**

CTM220 21JAN04 (ENGLISH)

Workshop manual

John Deere Diesel engines Powertech 4.5L and 6.8L Level 11 Fuel systems with Denso HPCR

***POWERTECH*[®] 4.5L & 6.8L
Diesel Engines**

**Level 11 Electronic
Fuel System With
Denso HPCR**

**TECHNICAL MANUAL
POWERTECH[®] 4.5 L & 6.8 L Diesel
Engines—Level 11 Electronic Fuel
System with Denso HPCR**

CTM220 21JAN04 (ENGLISH)

For complete service information also see:

POWERTECH[®] 4.5 L and 6.8 L Diesel
Engines—Base Engine CTM104
Alternators and Starter Motors..... CTM77
OEM Engine Accessories CTM67 (English Only)

John Deere Power Systems

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Introduction

Forward

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.


This manual (CTM220) covers only Level 11 Electronic Fuel System with the Denso High Pressure Common Rail (HPCR). It is one of six volumes on 4.5 L and 6.8 L engines. The following five companion manuals cover the base engine, mechanical fuel system, and other electronic control systems. Each manual covers repair, operation, and diagnostics.

- CTM104—Base Engine
- CTM170—Level 4 Electronic Fuel System with Bosch VP44 Pump
- CTM207—Mechanical Fuel Systems
- CTM284—Level 1 Electronic Fuel System with Delphi (Lucas) DP201 Pump
- CTM331—Level 12 Electronic Fuel System with Stanadyne DE 10 Pump

Other manuals will be added in the future to provide additional information on electronic fuel systems as needed.

A complete set of all these manuals covering 4.5 L and 6.8 L engines is available in a binder by ordering CTM 350 Binder Set.

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 Section 01, Group 001 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.

Information is organized in sections and groups for the various components requiring service instruction. At the beginning of each group are summaries of the up coming group.

Before beginning repair on an engine, clean the engine.

This manual contains SI Metric units of measure followed immediately by the U.S. customary units of measure. Most hardware on these engines are metric sized.

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

Read each block of material completely before performing service to check for differences in procedures or specifications. 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 the engines in the manual.

CALIFORNIA PROPOSITION 65 WARNING: Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.



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for your reading.
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to get more information.