

**PowerTech,
PowerTech Plus &
PowerTech E 13.5L
OEM Diesel
Engines Base
Engine Repair**

COMPONENT TECHNICAL MANUALS

**6135, 13.5L engines models 6135HF485, 6135HF475, 6135HDW01,
6135HDW03**

CTM415 05 MAY 14 (ENGLISH)



John Deere Power Systems

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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.

This manual covers only the base engine. It is one of two volumes on 13.5 L engines. The following companion manual covers electronic fuel system repair, operation and diagnostics:

- PowerTech™ 13.5L Diesel Engines — Level 15 Electronic Fuel Systems With Delphi/Lucas EUIs Component Technical Manual (CTM)

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

This manual covers the base engine repair for all 13.5 L models:

- Tier II PowerTech™
- Tier III PowerTech™ E.
- Tier III PowerTech™ Plus

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



CAUTION:

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.

Information is organized in sections and groups for the various components requiring service instruction. At the end of this manual 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.

Before beginning repair on an engine, clean the engine and mount on a repair stand. (See Section 2, Group 010.)

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

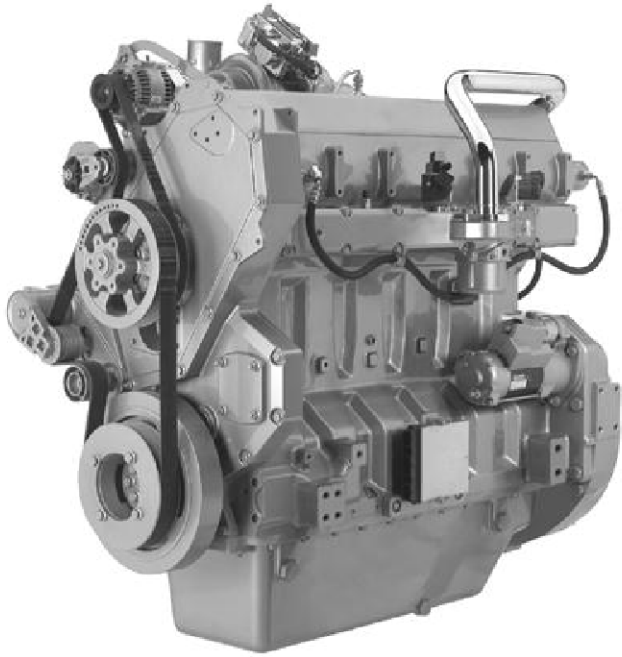
Some components of this engine may be serviced without removing the engine from the machine. Refer to the specific machine technical manual for information on this and for engine removal and installation procedures.

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.

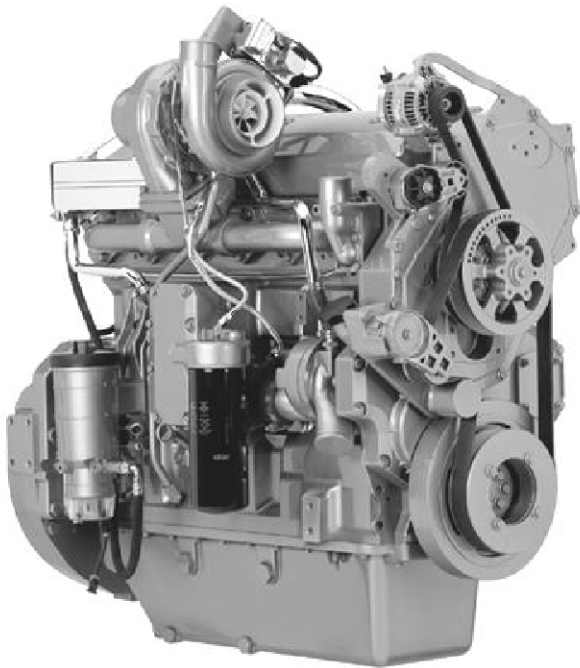
CALIFORNIA PROPOSITION 65 WARNING

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

PowerTech™ Plus 6135HF485 Engines



13.5L Engine - Left Front View



13.5L Engine - Right Front View



Thank you very much
for your reading.
Please click here
to get more information.