

4045 PowerTech™ OEM Diesel Engines (Final Tier 4/Stage IV Platform)

COMPONENT TECHNICAL MANUAL

4.5 L OEM Diesel Engines — Final Tier 4/Stage IV Platform

CTM120119 14DEC16 (ENGLISH)

John Deere Power Systems

Worldwide Edition
PRINTED IN U.S.A.


Introduction

Foreword

This repair manual covers the 4045 PowerTech™ engines for Final Tier 4/Stage IV platform.

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

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.**

Information in this manual is organized in sections and sub divided into groups.

Section 01 covers the safety measures to follow while repairing the engine; engine identification features, engine emission and application details, and information about the fuels, lubricants, and coolants.

Section 02 covers the repair and adjustment procedures.

Section 03 explains the theory of operation of each system.

Section 04 is the diagnostics section that provides troubleshooting procedures to find problems.

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Section 05 covers other materials needed to do the job.

Section 06 covers specifications, generalized torque values, and contains the wiring diagrams.

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 sized.

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 component you are working on.

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

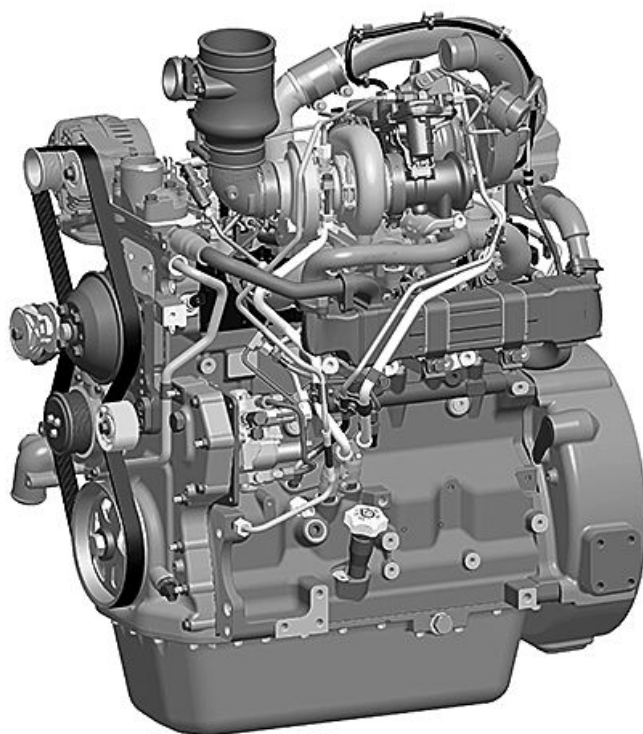
Fundamental service information is available from other sources covering basic theory of operation, fundamentals of troubleshooting, general maintenance, and basic type of failures and their causes.

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.

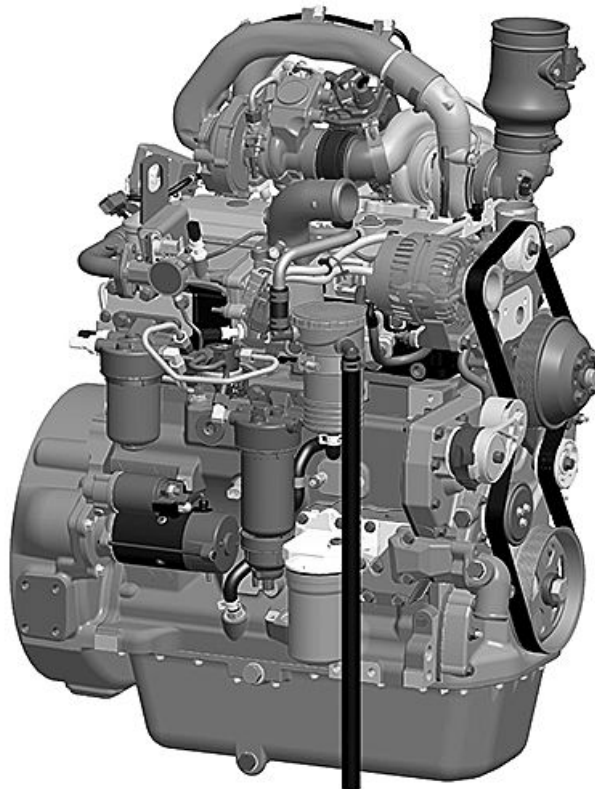
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Identification Views

4045 PSS Engine—Final Tier 4/Stage IV



4045HFC09 Left View



4045HFC09 Right View

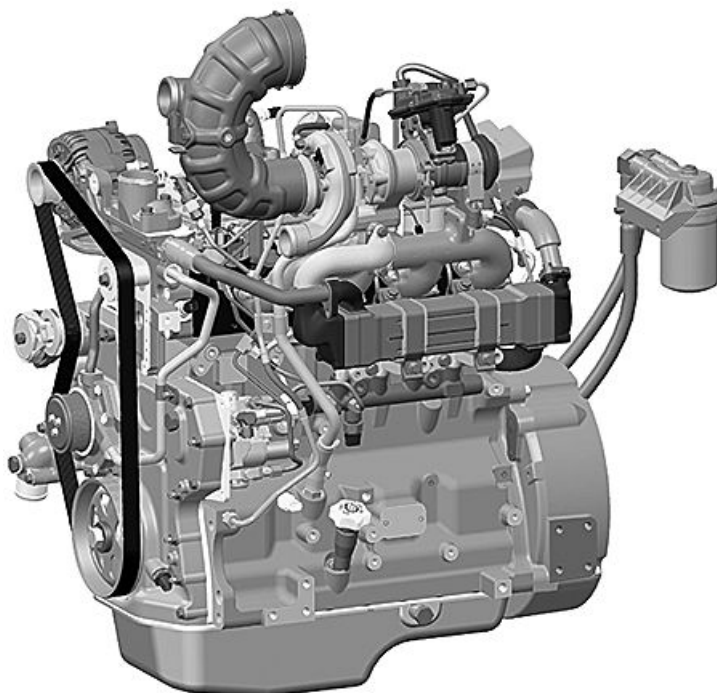
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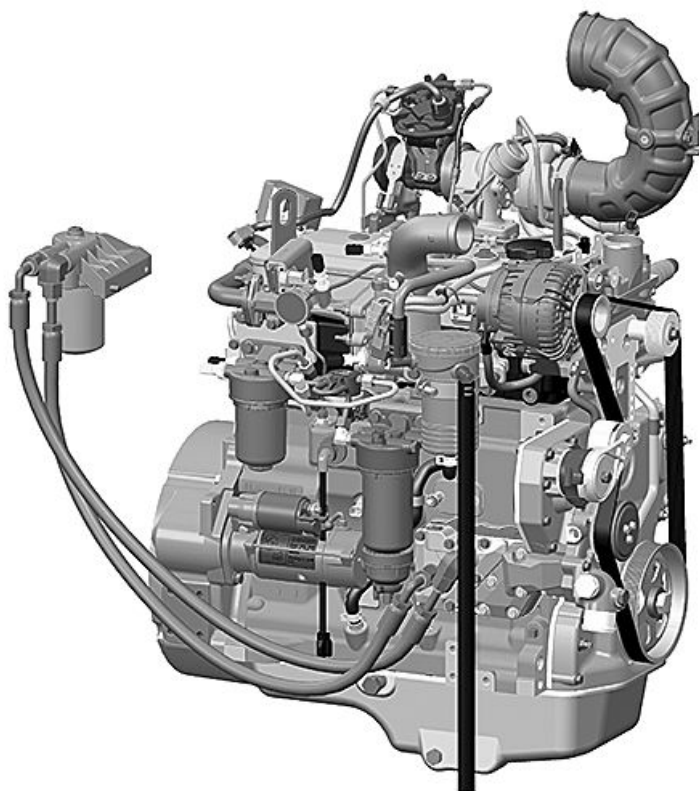
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4045 PWS Engine—Final Tier 4/Stage IV



4045HFC07 Left View



4045HFC07 Right View

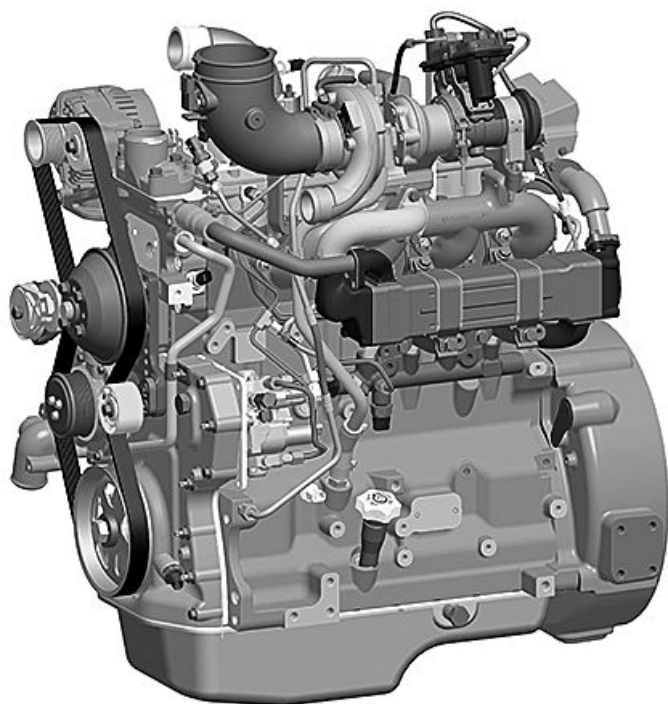
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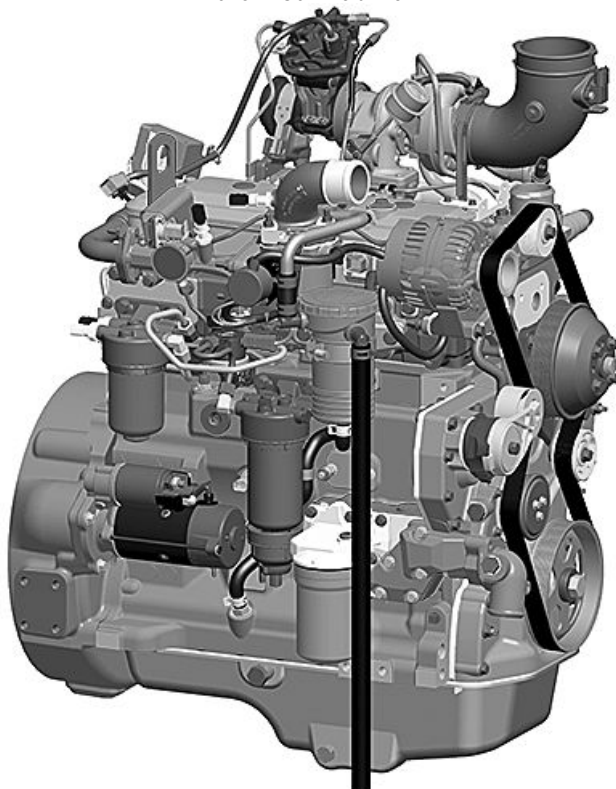
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4045 PWL Engine—Final Tier 4/Stage IV



4045HFC04 Left View



4045HFC04 Right View

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