

310SE and 315SE Backhoe Loaders Operation and Test

TECHNICAL MANUAL
TM1608 20SEP06 (ENGLISH)

For complete service information also see:

310SE and 315SE Backhoe Loader Repair (Complete)	TM1609
310E and 315SE Backhoe Loader Operation and Test (Complete)	TM1608
310SE Backhoe Loader and 315SE Sideshift Backhoe Loader	OMT184377
POWERTECH® 4.5L (4045) and 6.8L (6068) Engine	CTM104
POWERTECH® 4.5L & 6.8L Diesel Engines Mechanical Fuel Systems	CTM207
Alternators and Starting Motors	CTM77
Front Wheel Drive Axles APL-2025	CTM4509

**Worldwide Construction
And Forestry Division**
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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.

Technical manuals are divided in two parts: repair and operation and tests. Repair sections tell how to repair the components. 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.

Technical Manuals are concise guides for specific machines. They are on-the-job guides containing only the vital information needed for diagnosis, analysis, testing, and repair.

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.

See DB1990 Service Publications Catalog to order a complete Technical Manual (TM) or a Technical Manual Section (TMS). A complete Operation and Test manual includes the following sections:

- Section 9000 General Information
- Section 9005 Operational Checkout Procedure
- Section 9010 Engine
- Section 9015 Electrical System
- Section 9020 Power Train
- Section 9025 Hydraulics
- Section 9031 Air Conditioning

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IMPORTANT: Please remove this page and route through your service department.

Listed below is a brief explanation of "WHAT" was change and "WHY" it was changed.

These sectionalize manuals were revised to include the following changes

1. Section 9000:
To include any specifications, oil capacity and safety updates.
2. Section 9005:
To include miscellaneous updates.
3. Section 9010:
To include miscellaneous updates.
4. Section 9015:
To include serial number for tachometer, updates for selective flow control valve harness, timer relay updates, and miscellaneous updates.
5. Section 9020:
To add keys and legend to foldout pages and control valves in theory of operation section. To add miscellaneous updates.
6. Section 9025:
To update cycle times, change ride control accumulator specifications and miscellaneous updates.
7. Section 9031:
To update miscellaneous nomenclature.

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