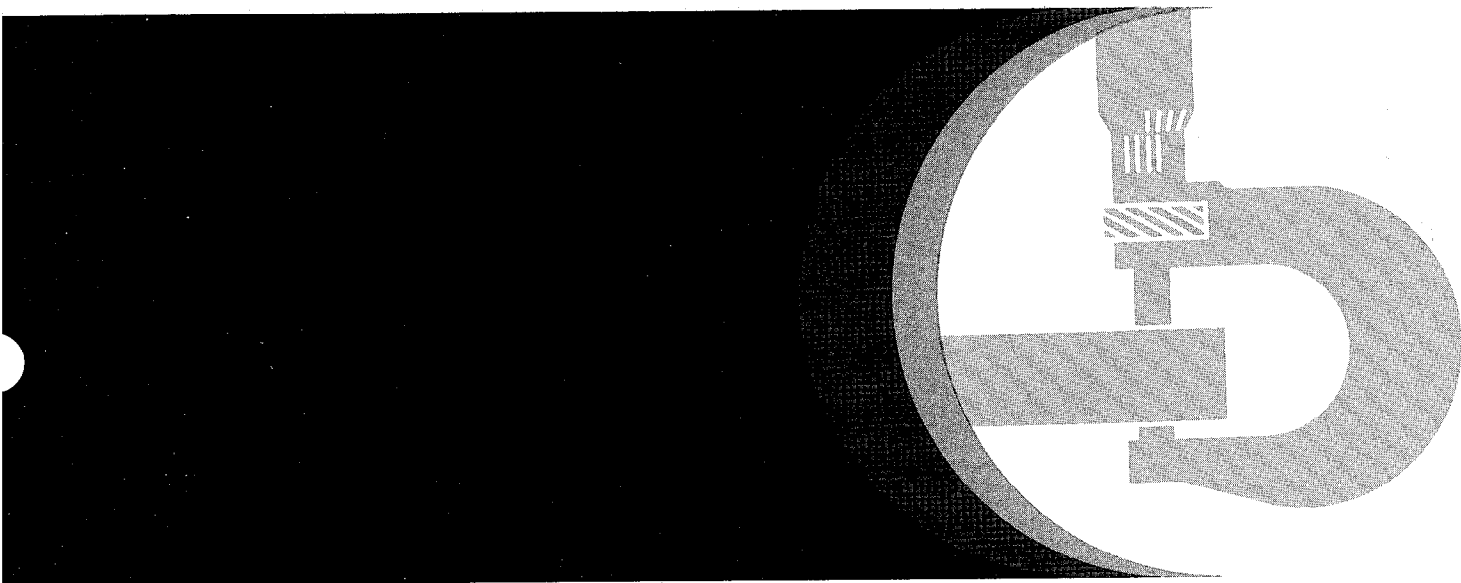


# John Deere 210C, 310C, 315C Backhoe Loaders Repair



**TECHNICAL MANUAL**

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**TM-1420 (Jun-88)**

# 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 diagnostics. Repair sections tell how to repair the components. Diagnostic 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.

Binders, binder labels, and tab sets can be ordered by John Deere dealers direct from the John Deere Distribution Service Center.

This manual is part of a total product support program.

## FOS Manuals-reference

### Technical Manuals-machine service

### Component Manuals-component service

*Fundamentals of Service (FOS) Manuals* cover basic theory of operation, fundamentals of troubleshooting, general maintenance, and basic types of failures and their causes. FOS Manuals are for training new personnel and for reference by experienced technicians.

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

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

## **JOHN DEERE DEALERS**

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

This is a complete revision for TM-1328, 210C, 310C and 315C Backhoe Loaders.

TM-1419 (Operation and Test) and TM-1420 (Repair) replace TM-1328.

The new pages are dated (Jun-88). Listed below is a brief explanation of "WHAT" was changed and "WHY" it was changed.

This manual was revised:

1. To update brake specifications and adjustment procedures.



# 210C, 310C, 315C BACKHOE LOADERS TECHNICAL MANUAL TM-1420 (JUN-88) REPAIR

## SECTION AND GROUP CONTENTS

*NOTE: This manual covers machine repair. For operation and test information, see TM-1419 Operation and Test.*

### SECTION I—GENERAL INFORMATION

- Group I—Introduction and Safety Information
- Group II—General Specifications
- Group III—Torque Values
- Group IV—Fuels and Lubricants
- Group V—Inspection Procedure

### SECTION 01—WHEELS

- Group 0110—Powered Wheels and Fastenings
- Group 0120—Non-Powered Wheels and Fastenings

### SECTION 02—AXLES AND SUSPENSION SYSTEMS

- Group 0230—Non-Powered Wheel Axles
- Group 0240—Powered Wheel Axles
- Group 0250—Axle Shafts, Bearings and Reduction Gears
- Group 0260—Hydraulic System

### SECTION 03—TRANSMISSION

- Group 0300—Removal and Installation
- Group 0315—Controls
- Group 0325—Input Drive Shafts and U-Joints
- Group 0350—Gears, Shafts, Housings, Bearings Differential Lock, Brake, and Park Brake
- Group 0360—Hydraulic System Suction Screen, Oil Pump, and Control Valve

### SECTION 04—ENGINE

- Group 0400—Removal and Installation

### SECTION 05—ENGINE AUXILIARY SYSTEMS

- Group 0505—Cold Weather Starting Aids
- Group 0510—Cooling Systems
- Group 0515—Speed Controls
- Group 0520—Intake System
- Group 0560—External Fuel Supply Systems

### SECTION 06—TORQUE CONVERTER

- Group 0651—Turbine, Gears, and Shafts

### SECTION 09—STEERING SYSTEM

- Group 0960—Hydraulic System Steering Valve and Cylinder and Inlet Check Valve

### SECTION 10—SERVICE BRAKES

- Group 1011—Active Elements Brake Disks and Control Linkage
- Group 1060—Hydraulic System Brake Valve

### SECTION 11—PARK BRAKE

- Group 1111—Active Elements
- Group 1115—Controls (Linkage)

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