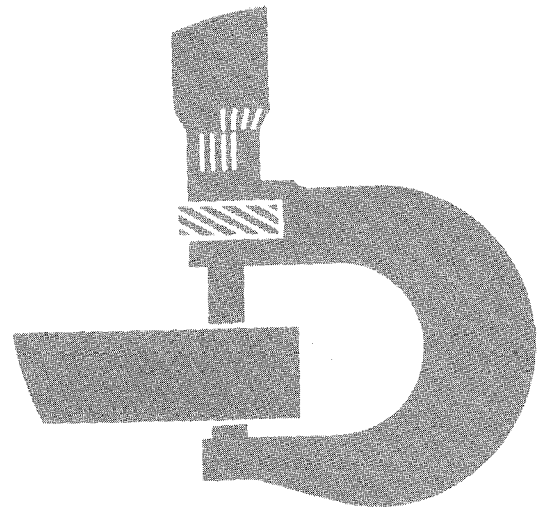


John Deere 595D Excavator Repair



TECHNICAL MANUAL

PDF



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TM-1445 (Feb-89)

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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 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 technical manuals are written as stand-alone manuals covering multiple machine applications.

595D EXCAVATOR TECHNICAL MANUAL TM-1445 (FEB-89)

SECTION AND GROUP CONTENTS

NOTE: This manual covers machine repair. For operation and tests information, see TM-1444.

SECTION I—GENERAL INFORMATION

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

SECTION 01—WHEELS

- Group 0110—Powered Wheels and Fastenings

SECTION 02—AXLES AND SUSPENSION SYSTEMS

- Group 0200—Removal and Installation
- Group 0210—Differential or Bevel Drive
- Group 0225—Input Drive Shafts and U-Joints
- Group 0250—Axle Shafts, Bearings and Reduction Gears
 - Tow Excavator, Hub Reduction,
 - Steering Knuckle, Front and Rear
 - Axle Housings

SECTION 03—TRANSMISSION

- Group 0300—Removal and Installation
- Group 0325—Input Drive Shafts and U-Joints
- Group 0350—Gears, Shafts, Bearings, and Power Shift Clutch
 - Transmission, 2WD-4WD
 - Shift Unit, Front Output Housing,
 - Bevel Gear Housing, and Pinion Shaft
- Group 0360—Hydraulic System
 - Travel (Transmission Drive)
 - Motor, Counterbalance Valve, and Rotary Manifold

SECTION 04—ENGINE

NOTE: For engine, 4.5L (276 cu in.), repair, see CTM-4.

- Group 0400—Removal and Installation
 - Engine, Fuel Injection Pump, Fuel Injection Nozzles, Bleed Fuel System, Turbocharger, Fuel Transfer Pump, Water Pump, Intake Manifold, Exhaust Manifold and Engine Oil Cooler

SECTION 05—ENGINE AUXILIARY SYSTEMS

- Group 0505—Cold Weather Starting Aids
 - Starting Aid Solenoid, Nozzle and Engine Coolant Heater
- Group 0510—Cooling System
 - Fan, Fan Belt and Radiator
- Group 0515—Speed Controls
 - Speed Control Assembly and Linkage
- Group 0520—Intake System
 - Air Cleaner and Air Intake System
 - Leakage Test
- Group 0560—External Fuel Supply System

SECTION 07—DAMPENER DRIVE (FLEX COUPLING)

- Group 0752—Elements

SECTION 09—STEERING SYSTEM

- Group 0960—Hydraulic System
 - Steering Valve, Pump, Flow Regulator, Switch Valve and Cylinder

Continued on next page

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