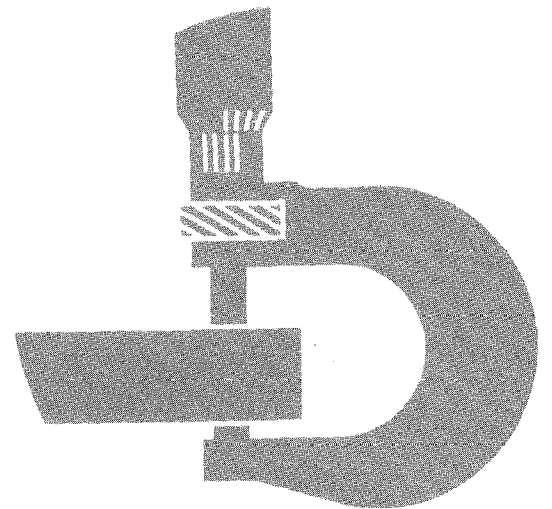


70 Excavator Repair Operation and Tests



TM1376 (20MAR90)

Litho in U.S.A.

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 type 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.

JOHN DEERE DEALERS

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

This is a complete revision for TM1376, 70 Excavator
Repair, and Operation and Tests.

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

This manual was revised:

1. To include additional information on disassembly
and assembly of track recoil spring using ST4920
Track Recoil Spring Disassembly and Assembly Tool
and DFT1087 Track Recoil Spring Disassembly and
Assembly Guard Tool.
2. To include miscellaneous changes and updates.

SECTION AND GROUP CONTENTS

SECTION I—GENERAL INFORMATION

- Group I—Introduction and Safety Information
- Group II—General Specifications
- Group III—Torque Values
- Group IV—Lubrication
- Group V—Inspection Procedures

SECTION 01—TRACKS

- Group 0130—Track Systems
 - Upper Roller, Lower Roller, Front Idler, Metal Face Seals, Track Adjuster, Track Shoe, Sprocket, Track Link, Bushing and Pin, Track Chain

SECTION 02—AXLES AND SUSPENSION (PROPEL)

- Group 0250—Axle Shafts, Bearings and Reduction Gears
 - Travel Gearbox and Park Brake, Metal Face Seals
- Group 0260—Hydraulic System
 - Counterbalance Valve, Travel Motor, Rotary Manifold

SECTION 04—ENGINE

- Group 0400—Removal and Installation

NOTE: For engine repair, see CTM-4. For removal and installation of components with engine in unit, see the following groups.

SECTION 04—ENGINE—Continued

- Group 0402—Camshaft and Valve Actuating Means
- Group 0409—Cylinder Head and Valves
- Group 0410—Exhaust Manifold
- Group 0413—Fuel Injection System
- Group 0414—Intake Manifold
- Group 0417—Water Pump
- Group 0418—Thermostats, Housings and Water Piping
- Group 0419—Oil Cooler
- Group 0420—Fuel Filter
- Group 0421—Fuel Transfer Pump
- Group 0422—Starting Motor and Fastenings

SECTION 05—ENGINE AUXILIARY SYSTEM

- Group 0505—Cold Weather Starting Aids
- Group 0510—Cooling Systems

SECTION 16—ELECTRICAL SYSTEMS

- Group 1671—Batteries, Support and Cables
- Group 1672—Alternator, Regulator and Charging System Wiring
- Group 1676—Instruments and Indicators

SECTION 32—BULLDOZER

- Group 3260—Hydraulic System
 - Control Valve, Switch Valve, Hydraulic Pump, Pilot Pump, Pilot Pump Relief Valve, Pump Regulator, Shuttle, Cylinders

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