

# 750B, 850B Crawler Dozer Operation and Test



## TECHNICAL MANUAL

For complete service information on:

750B, 850B Crawler Dozer Repair .....	
6414 Engine .....	
6068 Engine .....	
6466 Engine .....	CTM1
Engine Accessories .....	CTM11



DOWNLOAD



TM1332 (20MAY92)

LITHO IN U.S.A.  
ENGLISH

REFERENCE COPY

# 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 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.

# Contents

## SECTION I—GENERAL INFORMATION

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

## SECTION 9005—OPERATIONAL CHECKOUT PROCEDURE

- Group 10—Operational Checkout Procedure

## SECTION 9010—ENGINE

- Group 05—Theory of Operation
- Group 10—System Operational Checks
- Group 15—Diagnostic Information
- Group 20—Adjustments
- Group 25—Tests

## SECTION 9015—ELECTRICAL SYSTEM

- Group 05—Theory Of Operation
- Group 10—System Operational Checks
- Group 15—Diagnostic Information
- Group 20—Adjustments
- Group 25—Test

## SECTION 9020—POWER TRAIN

- Group 05—Theory of Operation
- Group 10—System Operational Checks
- Group 15—Diagnostic Information
- Group 20—Adjustments

## SECTION 9025—HYDRAULIC SYSTEM OPERATION AND TESTS

- Group 05—Theory of Operation
- Group 15—Diagnostic Information
- Group 25—Tests

## SECTION 9026—HYDROSTATIC SYSTEM

- Group 05—Theory of Operation
- Group 10—Operational Checkout Procedure
- Group 15—Diagnostic Information
- Group 25—Tests

## SECTION 9031—HEATING AND AIR CONDITIONING

- Group 05—Theory of Operation
- Group 10—System Operational Checks
- Group 15—Diagnostic Information
- Group 20—Adjustments
- Group 25—Tests

*All information, illustrations and specifications in this manual are based on the latest information available at the time of publication. The right is reserved to make changes at any time without notice.*

TM1332-19-20MAY92

COPYRIGHT® 1992  
DEERE & COMPANY  
Moline, Illinois  
All rights reserved  
A John Deere ILLUSTRATION™ Manual  
Previous Editions  
Copyright® 1987, 1986, 1985 Deere & Company

9005

9010

9015

9020

9025

9026

9031

*Contents*

1

9005

9010

9015

9020

9025

9026

9031

# Section I

# GENERAL INFORMATION

## Contents

	Page	Page
<b>Group I —Safety</b>		
Safety .....	I-I-1	
		Lubricants Storage .....
		I-IV-8
<b>Group II —General Specifications</b>		
750B General Specifications .....	I-II-1	
750B/6505 Hydraulic Dozer .....	I-II-2	
750B/6520 Angle Dozer .....	I-II-3	
750B/6525 Bulldozer .....	I-II-4	
750B Narrow Gauge Bulldozer .....	I-II-5	
750B Wide Track Bulldozer .....	I-II-6	
750B Long Track .....	I-II-7	
750B/6520 Long Track Angle Dozer .....	I-II-8	
750B/6525 Long Track bulldozer .....	I-II-9	
750B Long Track Low Ground Pressure .....	I-II-10	
850B General Specifications .....	I-II-11	
850B Drain and Refill Capacities .....	I-II-12	
850B/6540 Angle Dozer .....	I-II-13	
850B/6545 Bulldozer .....	I-II-14	
850B Low Ground Pressure Bulldozer .....	I-II-15	
850B/6540 Long Track Angle Dozer .....	I-II-16	
850B/6545 Long Track Bulldozer .....	I-II-17	
<b>Group III —Torque Values</b>		
Track Shoe Cap Screw .....	I-III-1	
Master Link Track Shoe .....	I-III-2	
Metric Bolt and Cap Screw Values .....	I-III-3	
Inch Bolt and Cap Screw Values .....	I-III-5	
37° Flare and 30° Cone Seat Connectors ...	I-III-7	
O-Ring Boss Fittings .....	I-III-8	
Flat Face O-Ring Seal Fittings .....	I-III-9	
Inch Four Bolt Flange Fittings .....	I-III-10	
Metric Four Bolt Flange Fittings .....	I-III-11	
<b>Group IV —Fuels and Lubricants</b>		
Fuel .....	I-IV-1	
Engine Oil .....	I-IV-3	
Hydraulic Oil .....	I-IV-4	
Splitter Gearbox Oil .....	I-IV-4	
Transmission Oil .....	I-IV-5	
Inner and Outer Final Drive Oil .....	I-IV-6	
Track Rollers and Front Idler .....	I-IV-6	
Grease .....	I-IV-7	
Engine Coolant .....	I-IV-8	
Synthetic Lubricants .....	I-IV-8	



Thank you very much  
for your reading.  
Please click here  
to get more information.