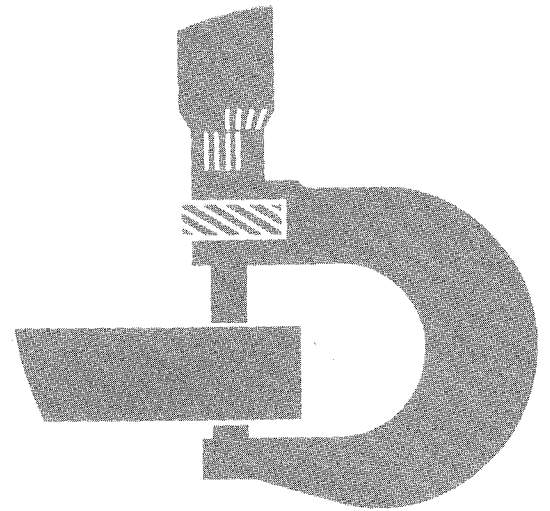


John Deere 540D Skidder 548D Grapple Skidder Operation and Tests



TM-1439 (Apr-88)

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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 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-1439, 540D Skidder and 548D Grapple Skidder.

Binder and tabs from old manual may be saved and used with this bound manual.

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

This manual was revised:

1. Inspection procedure group added in Section I.
2. Repair story for seals in oscillating support.
3. Cross section drawing of planetary pack added.
4. Engine repair story is removed. For complete repair information, see the component technical manual.
5. Repair story for new park brake seals and installation of seals with brake on unit.
6. Main pump repair story is removed. For complete repair information see the component technical manual.
7. Artwork for blade and grapple control valve revised to include external seal design for the spools.
8. Pressure control valve (priority valve) setting change to 8600 ± 345 kPa (85 ± 3.4 bar) (1250 ± 50 psi).
9. General updating.

540D SKIDDER 548D GRAPPLE SKIDDER TECHNICAL MANUAL TM-1439 (APR-88)

SECTION AND GROUP CONTENTS

NOTE: This manual covers machine operation and tests. For repair, see TM-1439, Repair.

SECTION I—GENERAL INFORMATION

- Group I—Safety Information
- Group II—General Specifications
- Group III—Torque Values
- Group IV—Fuels and Lubricants
- Group V—Inspection Procedure (not included)

SECTION 9005—OPERATIONAL CHECK- OUT PROCEDURE

- Group 10—Operational Checkout
Procedure

SECTION 9010—ENGINE OPERATION AND TESTS

- Group 05—Theory of Operation
- Group 15—Diagnostic Information
- Group 20—Adjustments
- Group 25—Tests

SECTION 9015—ELECTRICAL SYSTEM OPERATION AND TEST

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

SECTION 9020—POWER TRAIN OPERATION AND TEST

- Group 05—Theory of Operation
- Group 15—Diagnostic Information
- Group 20—Adjustments
- Group 25—Tests

SECTION 9025—HYDRAULIC SYSTEM OPERATION AND TEST

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

SECTION 9030—MISCELLANEOUS COMPONENTS (WINCH) OPERATION AND TEST

- Group 05—Theory of Operation
- Group 15—Diagnostic Information
- Group 20—Adjustments
- Group 25—Tests

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