3940, 3950, 3960 and 3970 Forage Harvesters



John Deere Ottumwa Works TM1203 (08APR02) LITHO IN U.S.A. ENGLISH

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 operation and tests. Repair sections tell how to repair the components. Operation and tests 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.

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

Fundamental service information is available from other sources covering basic theory of operation, fundamentals of troubleshooting, general maintenance, and basic type of failures and their causes.

DX,TMIFC -19-29SEP98

JOHN DEERE DEALERS

IMPORTANT: Please remove this page and route through your service department. Your current TM is obsolete, discard TM1203 dated 15MAR96.

Listed below is a brief explanation of "WHAT" was changed or added:

- New control console information added
- New transport lighting information added

EX,1203,DLR -19-16NOV98

Contents

SECTION 10—GENERAL INFORMATION

Group 05—Safety

Group 10—Specifications Group 15—General Information Group 20—Lubricants

SECTION 20—DRIVE TRAIN

- Group 10—Diagnosing Malfunctions Group 15—PTO Hookup—Recirculating Ball Slip Group 16—PTO Hookup—Non-Metallic Bushing Type Group 17—PTO Hookup—Grobe Spline Type Group 20—Powershaft Group 25—Bevel Gear Case Group 30—Feed Roll Gear Case
- Group 35—Feed Roll Drives

SECTION 30—HYDRAULIC SYSTEM

- Group 05—General Information
- Group 10—Diagnosing Malfunctions
- Group 15-Electrohydraulic Valve
- Group 20-Tongue Position Cylinder
- Group 25—Hydraulic Shift Cylinders
- Group 30—Cutterhead Lift System
- Group 35—Hydraulic Downstop (3940/3960)
- Group 40—Spout Cap Cylinder
- Group 45—Spout Control Motor
- Group 50—Flow Divider Valve

SECTION 40—ELECTRICAL SYSTEM

- Group 05-Component Location
- Group 10—System Functional Checks and Diagnosing Malfunctions
- Group 15—Tests and Adjustments
- Group 20—Harness Repair
- Group 25—IRON-GARD™ Metal Detector (3950/3970)
- Group 30—SPOUT-TRAK™ (3950/3970)
- Group 35—Downstop and Float Systems (3950/3970)
- Group 40—ROW-TRAK™ (3950/3970)
- Group 45—Electrical Diagrams

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.

TM1203-19-08APR02

COPYRIGHT© 1998 DEERE & COMPANY Moline, Illinois All rights reserved A John Deere ILLUSTRUCTION™ Manual Previous Editions Copyright 1996, 1991, 1984, 1979 Deere & Company 10

20

30

40

50

60

- Group 05—Diagnosing Malfunctions
- Group 10-Feed Rolls-3940/3960

SECTION 50—CUTTERHEAD ASSEMBLY

- Group 11—Feed Rolls—3950/3970 Group 15 Smooth Boll Scraper Stationary Kn
- Group 15—Smooth Roll Scraper—Stationary Knife and Adjuster
- Group 20-Radius and Feed Roll Arms
- Group 25—Knife Sharpener
- Group 30-Cutterhead and Bearings

SECTION 60—MISCELLANEOUS

- Group 05—Auger Group 10—Wheels Group 15—Fan and Spout
- SECTION 99—DEALER FABRICATED TOOLS
 - Group 05—Dealer Fabricated Tools

Index

99

TM1203 (08APR02)



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