

1770 12RW-36, 12RW-38, 16RN-30, and 24RN-30 Plus Planters Diagnostic



JOHN HARE



COLLECTION

DIAGNOSIS AND TESTS MANUAL

1770 12RW-36, 12RW-38, 16RN-30, and 24RN-30 MaxEmerge Plus Planter

TM1709 06 SEP 14 (ENGLISH)

For complete service information also see:

SeedStar Monitoring System and Variable Rate Drive

TM1601

Planter Monitoring Systems

TM1270



John Deere Agriculture
Printed by Belgreen



Table of contents

FOREWORD

Section 10 - GENERAL INFORMATION

- Group 05 - Safety
- Group 10 - Lubricants
- Group 15 - General Information/Dimensions

Section 20 - WELDING

- Group 05 - Repair and Welding

Section 30 - PLANTING UNITS

- Group 05 - Vacuum Seed Metering Mechanisms
- Group 10 - Plateless Seed Metering Mechanisms
- Group 15 - Seed Openers
- Group 20 - Closing Wheels
- Group 30 - Insecticide/Herbicide Meter
- Group 35 - Coulter
- Group 40 - Pneumatic Down Force
- Group 45 - Troubleshooting

Section 40 - ELECTRICAL

- Group 05 - Specifications
- Group 10 - Harness Repair
- Group 15 - Control Console Repair
- Group 20 - Switch Repair
- Group 25 - Lighting Repair

Section 50 - DRIVES

- Group 05 - Specifications
- Group 10 - Drive Wheels
- Group 15 - Countershaft Drive System
- Group 20 - Seed Drive Transmission
- Group 25 - Fertilizer Drive
- Group 30 - Variable Rate Drive

Section 60 - WHEEL MODULES AND TIRES

- Group 05 - Wheel Module Repair

Section 70 - HYDRAULICS

- Group 05 - Vacuum Meter
- Group 10 - Cylinders
- Group 15 - Manifold Repair
- Group 20 - Solenoid Valves

Section 240 - ELECTRICAL OPERATION AND TESTS

- Group 05 - General Information
- Group 10 - System Schematics
- Group 15 - Planter Operational Checks
- Group 20 - Diagnosing and Testing

Section 270 - HYDRAULIC SYSTEM OPERATION AND TESTS

- Group 05 - General Information
- Group 10 - Planter Operational Checks
- Group 15 - Unlevel Frame for Machines Equipped WITHOUT Auto Rephase
- Group 15A - Unlevel Frame for Machines Equipped WITH Auto Rephase
- Group 20 - General Operations
- Group 25 - Non-SEEDSTARSEEDSTAR is a trademark of Deere & Company Operations
- Group 30 - SEEDSTARSEEDSTAR is a trademark of Deere & Company Operations
- Group 35 - Theory of Operations

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.

**CAUTION:**

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.



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