John Deere 2320, 2420

John Deere 2320, 2420 Windrower Service Manual

Detailed Repair, Maintenance, and Technical Information

Introduction

This service manual provides comprehensive instructions for the maintenance, repair, and overhaul of John Deere 2320 and 2420 Windrower models. It is designed for qualified service technicians and mechanics, offering detailed procedures, specifications, and diagnostic information necessary to ensure the proper functioning and longevity of your equipment. Adherence to the procedures outlined herein is crucial for safe and effective service operations.

Safety Information

Always prioritize safety when performing any service or repair. Read and understand all safety warnings and precautions before beginning work. Use appropriate personal protective equipment (PPE) and ensure the machine is properly secured and de-energized to prevent accidental startup. Refer to the machine's operational safety manual for additional guidelines.

- Disconnect battery before working on electrical systems.
- Relieve hydraulic pressure before disconnecting hydraulic lines.
- Support raised equipment with stands or blocks.
- Use only genuine John Deere replacement parts.

General Information and Specifications

This section covers general technical data, torque specifications, and fluid capacities for the John Deere 2320 and 2420 Windrowers. It includes details on engine type, transmission, hydraulic system, and overall dimensions. Consult specific subsections for detailed component specifications.

Engine Specifications

- **Model 2320:** Refer to detailed engine section for specific type, horsepower, displacement, and fuel type.
- **Model 2420:** Refer to detailed engine section for specific type, horsepower, displacement, and fuel type.

Fluid Capacities

System	Capacity (approx.)	Fluid Type
Engine Oil	Refer to specifications	SAE 15W-40
Hydraulic System	Refer to specifications	John Deere Hy-Gard
Fuel Tank	Refer to specifications	Diesel Fuel

Maintenance Procedures

Regular maintenance is essential for the optimal performance and longevity of your John Deere Windrower. This section details routine service intervals and procedures, including fluid checks, filter replacements, lubrication points, and adjustments.

Daily Checks

1. Check engine oil level.
2. Inspect coolant level.
3. Verify hydraulic fluid level.
4. Check tire pressure.
5. Inspect cutting components for damage.

Scheduled Maintenance (e.g., 50/100/250/500 hours)

Refer to the detailed maintenance schedule within the manual for specific tasks at each interval. Examples include:

- Engine oil and filter replacement.
- Fuel filter replacement.
- Air filter inspection/replacement.
- Lubrication of all grease points.
- Hydraulic system filter replacement.
- Belt tension adjustments.

Troubleshooting Guide

This section provides a systematic approach to diagnosing and resolving common operational issues. Follow the diagnostic charts and procedures to identify the root cause of problems and implement appropriate corrective actions.

Engine Not Starting

1. Check fuel level and quality.
2. Inspect battery charge and connections.
3. Verify starter motor operation.
4. Check for fuel system blockages or air in lines.

Poor Cutting Performance

1. Inspect cutting blades for wear or damage.
2. Check cutting height adjustment.
3. Verify proper belt tension for cutter drive.

4. Examine for foreign objects obstructing the cutting mechanism.

Repair Procedures

Detailed instructions for disassembling, inspecting, repairing, and reassembling various components and systems of the windrower. This includes engine, transmission, hydraulic system, electrical system, and cutting platform. Always refer to the specific chapter for the component being serviced.

Engine Overhaul

Step-by-step guide for engine removal, disassembly, inspection of components (crankshaft, pistons, cylinder liners), reassembly with new parts, and installation. Includes torque specifications for all fasteners.

Hydraulic Pump Replacement

Procedure for safely draining the hydraulic system, removing the old pump, installing a new pump, refilling the system, and bleeding air from the lines. Emphasizes cleanliness to prevent contamination.

Wiring Diagrams and Schematics

This section contains comprehensive electrical wiring diagrams and hydraulic schematics to assist in diagnosing electrical faults and hydraulic system issues. Each diagram is clearly labeled with component names and wire colors.

Warranty and Support

This service manual is a reproduction of the original factory manual. For information regarding warranty coverage for John Deere equipment, please consult your authorized John Deere dealer or the original equipment purchase documentation. Technical support for the windrower itself is provided by authorized John Deere service centers. This manual is intended as a reference for service and repair.
For further assistance or to locate an authorized service dealer, please visit the official John Deere website: www.deere.com

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