

John Deere 50 60 70

John Deere Shop Manual: Models 50, 60 & 70

Comprehensive Maintenance and Repair Instructions

INTRODUCTION

This manual provides detailed instructions for the maintenance and repair of John Deere Tractor Models 50, 60, and 70. It is designed to assist owners and technicians in performing various tasks, from routine servicing to more complex system repairs. Following the procedures outlined in this manual will help ensure the proper operation and longevity of your tractor.

The information contained herein is based on a thorough examination and disassembly of the vehicles, providing practical, step-by-step guidance supported by illustrations.

GENERAL SAFETY INFORMATION

Always prioritize safety when performing any maintenance or repair work. Read and understand all safety warnings and instructions in this manual and on your equipment. Use appropriate personal protective equipment (PPE) such as safety glasses, gloves, and hearing protection. Ensure the tractor is stable and secured before working underneath it. Disconnect the battery before working on electrical systems.

ROUTINE MAINTENANCE

Regular routine maintenance is crucial for the reliable operation and extended lifespan of your John Deere tractor. This section covers essential checks and service procedures.

- **Engine Oil and Filter:** Check oil level regularly. Change engine oil and filter according to the manufacturer's recommended intervals, typically every 50-100 operating hours or annually.
- **Air Filter:** Inspect and clean or replace the air filter element as needed, especially in dusty conditions.
- **Fuel Filter:** Replace the fuel filter at recommended intervals to prevent fuel system contamination.
- **Cooling System:** Check coolant level and condition. Inspect hoses and radiator for leaks or damage. Clean radiator fins as necessary.
- **Lubrication:** Grease all specified points on the chassis, steering, and linkage components using the correct type of grease.
- **Tire Pressure:** Maintain correct tire pressure for optimal performance and safety.

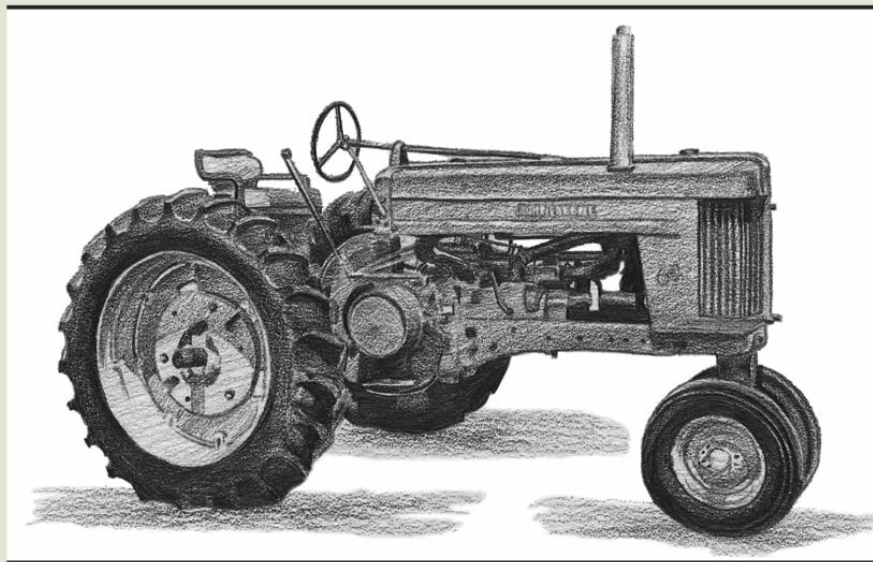
- **Battery:** Inspect battery terminals for corrosion and ensure connections are secure. Check electrolyte level in serviceable batteries.



JD-10

JOHN DEERE

SHOP MANUAL



- The trusted source for tractor shop manuals since 1948
- Written for professionals and experienced mechanics
- Easy-to-use format for quick and handy reference
- Includes illustrations, exploded views and photos

Figure 1: Cover of the John Deere Shop Manual for Models 50, 60, and 70. This image illustrates the manual itself, which contains detailed instructions for tractor maintenance and repair.

TUNE-UP PROCEDURES

Proper tune-up procedures ensure the engine operates efficiently and reliably. This includes adjustments and replacements of key components.

- **Spark Plugs:** Inspect, clean, and gap spark plugs. Replace if worn or fouled.

- **Ignition System:** Check ignition timing and adjust as specified. Inspect distributor cap, rotor, and ignition wires for wear.
- **Carburetor Adjustment:** Perform idle speed and mixture adjustments according to factory specifications.
- **Valve Clearance:** Check and adjust valve clearances as part of a comprehensive engine tune-up.

ENGINE REPAIR, COOLING, AND HEATING

This section provides guidance on diagnosing and repairing engine issues, as well as maintaining the cooling and heating systems.

- **Engine Diagnostics:** Procedures for identifying common engine problems such as misfires, loss of power, or unusual noises.
- **Component Overhaul:** Instructions for disassembling, inspecting, and reassembling engine components like cylinder heads, pistons, and crankshafts.
- **Cooling System Service:** Flushing the cooling system, replacing thermostats, water pumps, and radiator hoses.
- **Heating System:** Troubleshooting and repair of the tractor's heating components, if equipped.

FUEL AND EXHAUST SYSTEMS

Proper functioning of the fuel and exhaust systems is vital for engine performance and emissions control.

- **Fuel Delivery:** Inspection and service of fuel lines, fuel pump, and fuel tank.
- **Carburetor Service:** Cleaning, rebuilding, and adjusting the carburetor.
- **Exhaust System:** Inspection for leaks, damage, and replacement of exhaust components.
- **Emissions Control:** Basic checks and maintenance related to the tractor's emissions system, if applicable.

IGNITION, BRAKES, SUSPENSION, AND STEERING

These systems are critical for the safe operation and control of the tractor.

- **Ignition System:** Detailed troubleshooting and repair of ignition components beyond basic tune-up.
- **Brake System:** Inspection, adjustment, and repair of mechanical or hydraulic brake systems. This includes brake shoe replacement and fluid checks.
- **Suspension:** Maintenance and repair of front axle components, wheel bearings, and other suspension elements.
- **Steering System:** Adjustment and repair of steering linkages, gearboxes, and related components to ensure precise control.

ELECTRICAL SYSTEMS AND WIRING DIAGRAMS

Understanding and maintaining the electrical system is essential for starting, lighting, and accessory operation.

- **Battery and Charging System:** Testing the battery, alternator, and voltage regulator.
- **Starting System:** Troubleshooting and repair of the starter motor and solenoid.

- **Lighting and Accessories:** Repair of lights, gauges, and other electrical accessories.
- **Wiring Diagrams:** This manual includes comprehensive wiring diagrams to assist in diagnosing electrical faults and tracing circuits. *(Note: While the product description mentions wiring diagrams, some user reviews indicate potential discrepancies. Please verify content upon receipt.)*

TROUBLESHOOTING COMMON ISSUES

This section provides a guide to diagnosing and resolving common operational problems with your John Deere tractor.

Symptom	Possible Cause	Action
Engine Fails to Start	Dead battery, faulty starter, no fuel, ignition problem.	Check battery charge, inspect starter connections, verify fuel supply, check spark plugs and ignition.
Engine Overheating	Low coolant, clogged radiator, faulty thermostat, worn fan belt.	Check coolant level, clean radiator, test thermostat, inspect fan belt tension.
Loss of Power	Clogged fuel filter, dirty air filter, incorrect ignition timing, carburetor issues.	Replace fuel/air filters, check ignition timing, inspect carburetor.

SPECIFICATIONS

This section provides key technical specifications for John Deere Models 50, 60, and 70. Refer to specific chapters for detailed component specifications.

- **Manual Publication Date:** June 1, 1956
- **Manual Print Length:** 72 pages
- **Manual Dimensions:** 8 x 0.25 x 11 inches
- **Manual ISBN-10:** 0872880699
- **Manual ISBN-13:** 978-0872880696
- *For specific tractor model specifications (e.g., engine displacement, horsepower, fluid capacities), refer to the relevant sections within the manual.*

WARRANTY INFORMATION

This shop manual provides repair instructions and is not a product with a direct manufacturer's warranty for its operation. For warranty information pertaining to your John Deere tractor, please refer to the original documentation provided with your equipment at the time of purchase or contact an authorized John Deere dealer. This manual is intended as a reference guide for maintenance and repair procedures.

SUPPORT AND FURTHER ASSISTANCE

Should you require further assistance beyond the scope of this manual, or if you encounter issues that you are unable to resolve, it is recommended to consult with a certified John Deere service technician or an experienced mechanic. Additional resources may be available through official John Deere service channels or reputable agricultural equipment forums.

For parts inquiries, you may find detailed parts lists on the official John Deere website, which can be helpful

when performing repairs.