John Deere 318, 332, 420

John Deere 318, 332, 420 Lawn Garden Tractor Technical Repair Service Manual

Technical Repair Service Manual (TM-1277) for John Deere 318, 332, and 420 Lawn Garden Tractors.

Introduction

This document serves as a technical repair service manual for John Deere 318, 332, and 420 series lawn garden tractors. It provides comprehensive information necessary for the diagnosis, repair, and maintenance of these tractor models. The manual, identified as TM-1277, contains 572 pages of detailed instructions and illustrations.

General Information

This manual is a TechMedia reprint, originally published on January 1, 1986. It is presented in English and covers various systems and components of the specified John Deere tractor models. The content is structured into sections for easy navigation, addressing areas such as general information, fuel/air system, electrical, power train, steering/brakes, hydraulic, and operational procedures.



Figure 1: An open view of the John Deere Technical Repair Service Manual, displaying its internal structure with tabbed sections and a detailed table of contents page. This image highlights the organization of the manual, making it easy to locate specific repair information.

Manual Structure and Navigation

The manual is organized into distinct sections, each focusing on a specific system or component of the tractor. These sections are clearly marked with tabs for quick access. Each section may contain groups that further break down the information into specific topics such as repair, operation, or tests.

- **Section 10:** General Information
- **Section 20:** Engine Repair
- **Section 30:** Fuel/Air System Repair
- **Section 40:** Electrical Repair
- **Section 50:** Power Train Repair
- **Section 60:** Steering and Brake Repair
- **Section 70:** Hydraulic Repair
- **Section 80:** Miscellaneous Repair
- **Section 210:** Operational Checkout Procedures
- **Section 220:** Engine Operation and Tests
- **Section 230:** Fuel/Air Operation and Tests
- **Section 240:** Electrical Operation
- **Section 250:** Power Train Operation
- **Section 260:** Steering/Brakes Operation
- **Section 270:** Hydraulic Operation

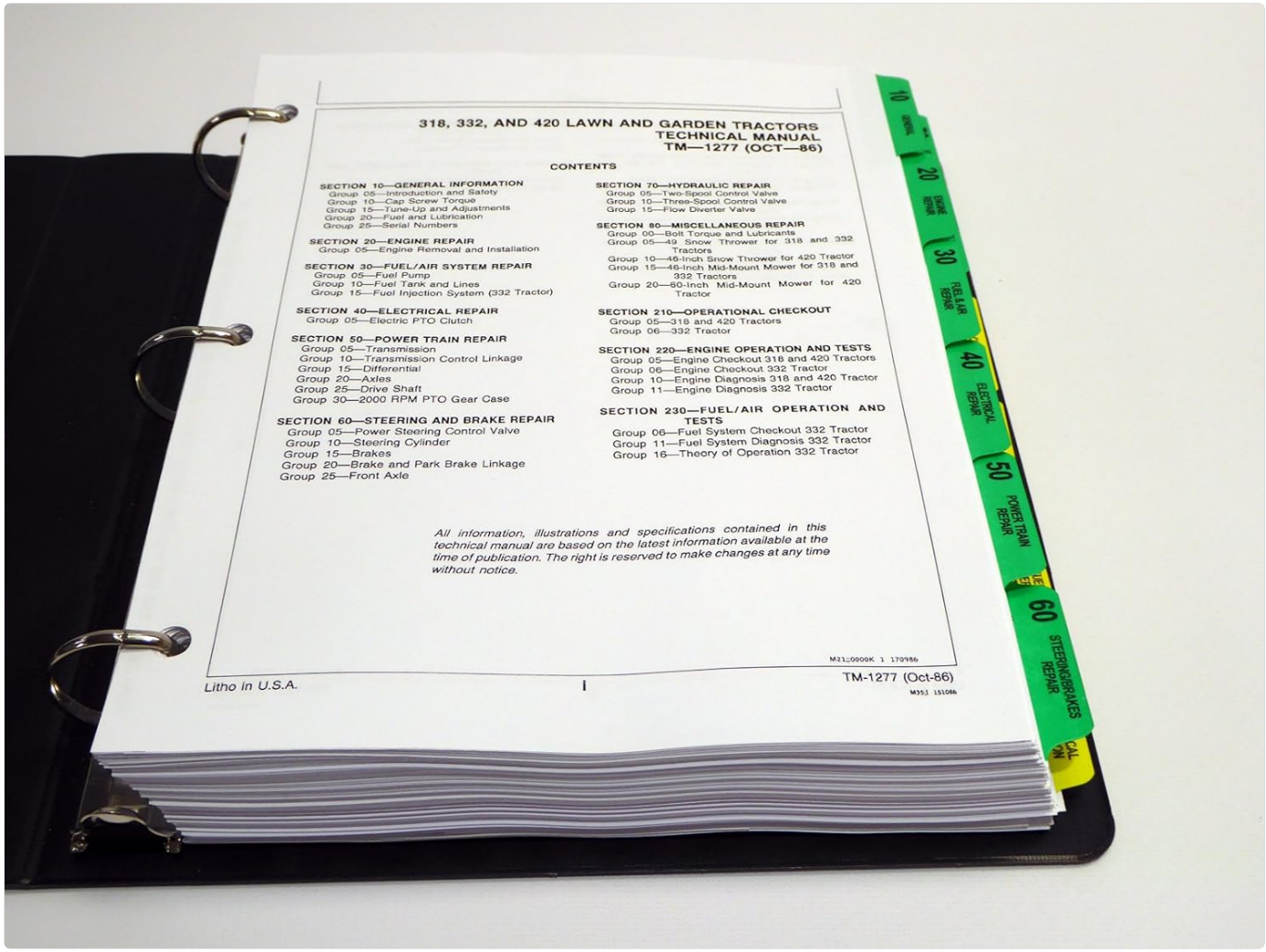


Figure 2: A close-up of the manual's contents page, showing the detailed breakdown of sections and groups. This page is crucial for understanding the manual's layout and quickly locating relevant repair or operational information for the John Deere 318, 332, and 420 tractors.

Using the Manual for Repair Procedures

To perform a repair, locate the relevant section and group using the table of contents or the section tabs. Each procedure is typically accompanied by step-by-step instructions and illustrations. Pay close attention to safety warnings and specific torque specifications.

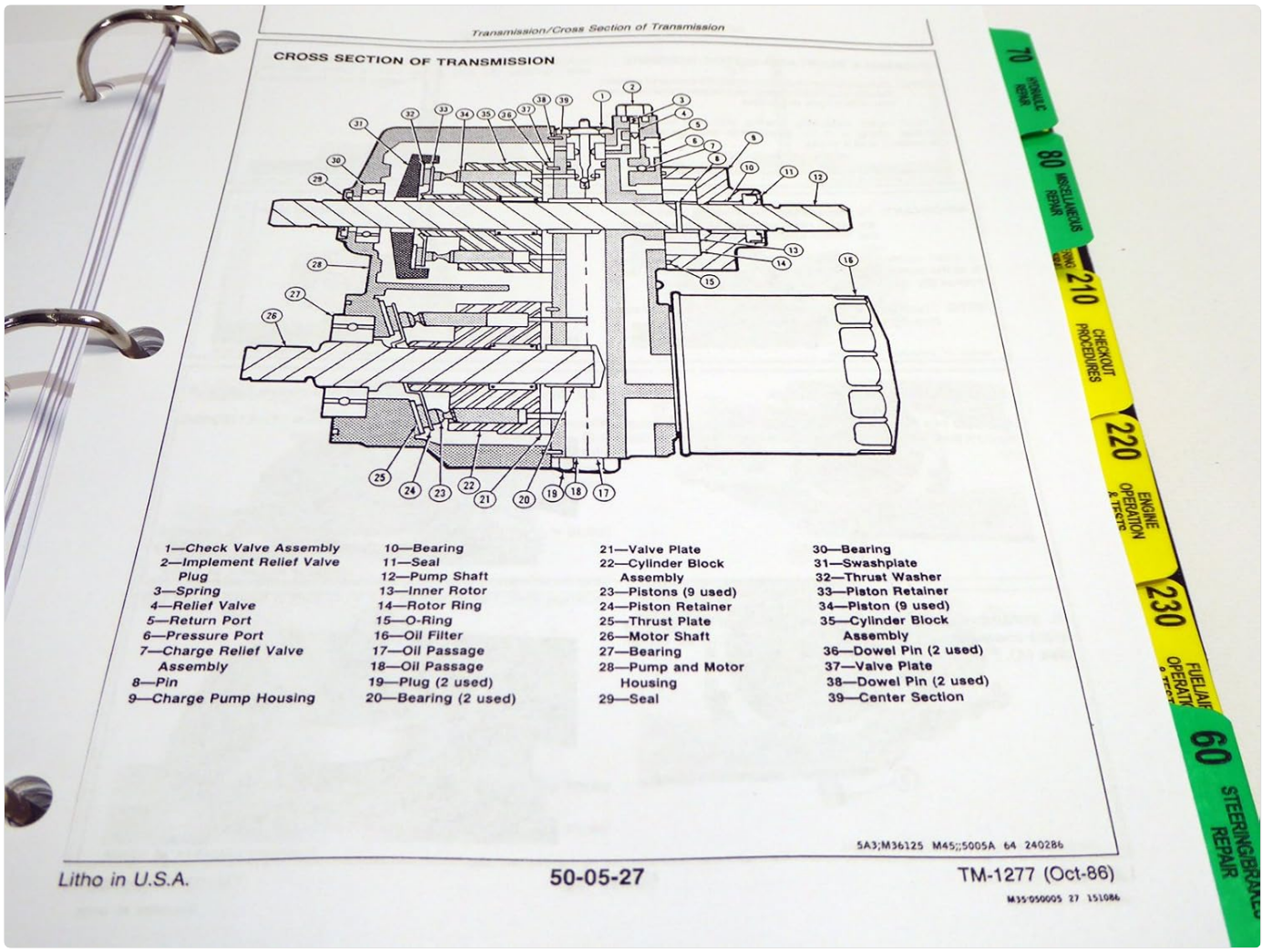


Figure 3: An example page from the manual illustrating a cross-section of a transmission. This diagram includes numbered components and a corresponding legend, providing a visual guide for understanding the internal workings and assembly of the transmission system.

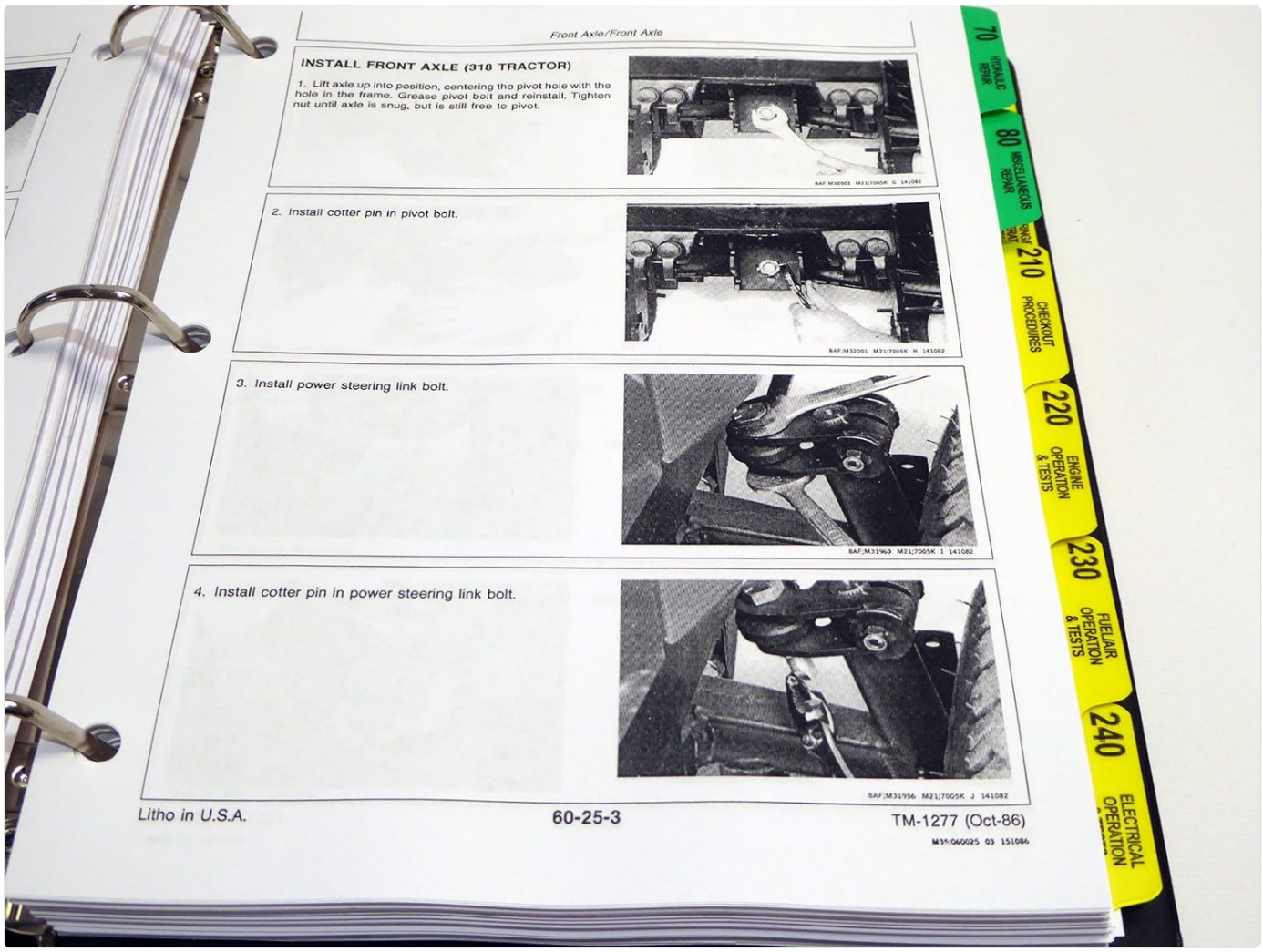
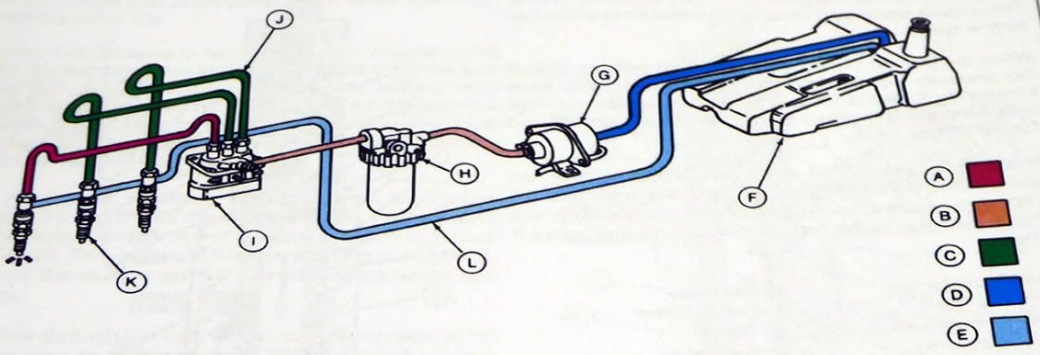


Figure 4: A page detailing the installation of a front axle for the 318 tractor. It features sequential steps with accompanying black and white photographs, demonstrating practical repair procedures. This visual aid is essential for accurate component installation.

Using the Manual for Maintenance

The manual includes sections dedicated to routine maintenance, such as fluid checks, filter replacements, and lubrication points. Refer to the "General Information" and specific system sections for recommended service intervals and procedures to ensure the longevity and optimal performance of your tractor.

FUEL SYSTEM OPERATION



A—High Pressure Fuel
B—Low Pressure Fuel
C—Trapped Fuel
D—Suction Fuel
E—Return Fuel
F—Fuel Tank
G—Fuel Transfer Pump
H—Fuel Filter
I—Fuel Injection Pump
J—Fuel Injection Lines
K—Fuel Injection Nozzle
L—Fuel Return Line

Suction fuel (D) flows through a suction screen in the fuel tank (F) to the fuel transfer pump (G). The fuel transfer pump is a solenoid operated, piston-type pump.

Low pressure fuel (B) flows from the fuel transfer pump to the fuel filter (L). The fuel filter removes contaminants and water from the fuel.

Low pressure fuel flows from the fuel filter to the inlet gallery of the fuel injection pump (I). The fuel injection pump is a variable displacement piston-type pump.

High pressure fuel (A) from the fuel injection pump flows to the fuel injection nozzles (K) through the fuel injection lines (J). When one fuel injection line is pressurized, the other two lines contain trapped fuel (C).

A small amount of fuel leaks past the nozzle valve to lubricate the fuel injection nozzle. The leakage and excess fuel from the fuel injection nozzle flows back to the fuel tank through the fuel return line (L).

Figure 5: An illustration depicting the fuel system operation for the 332 tractor. This diagram uses color coding to differentiate fuel flow paths and components, aiding in the understanding of how the system functions and where maintenance might be required.

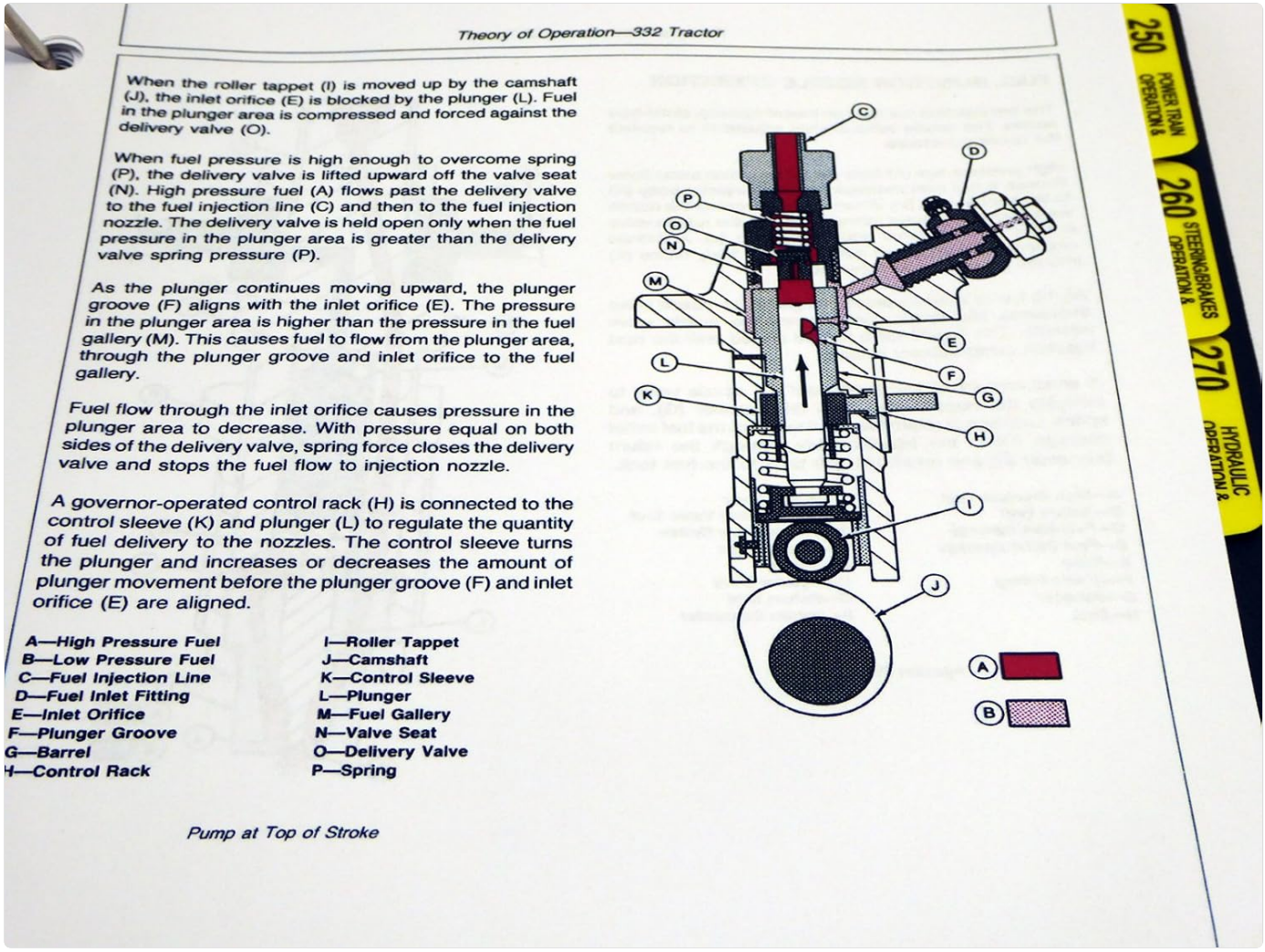


Figure 6: A detailed cross-sectional view of a fuel injection pump, complete with labeled parts and a description of its theory of operation. This level of detail is crucial for diagnosing and repairing fuel system components.

Troubleshooting and Diagnostics

For diagnosing issues, consult the "Operational Checkout Procedures" and specific system operation sections. These sections often include flowcharts, diagnostic tables, and test procedures to help identify the root cause of a problem. Electrical schematics are also provided for electrical system diagnostics.

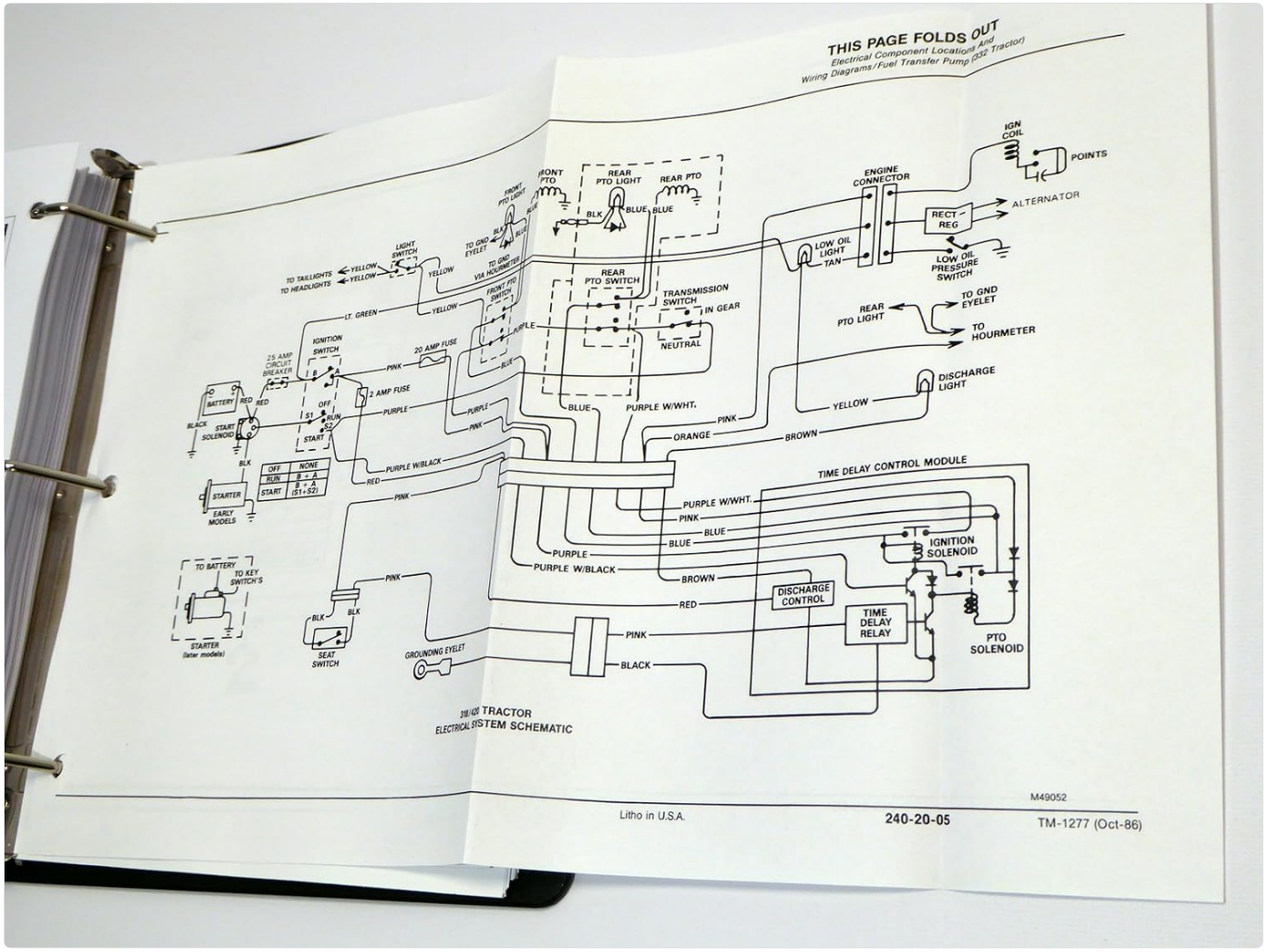


Figure 7: A fold-out electrical schematic for the John Deere 318 tractor. This comprehensive diagram shows the wiring layout and component connections, which is indispensable for electrical troubleshooting and repair.

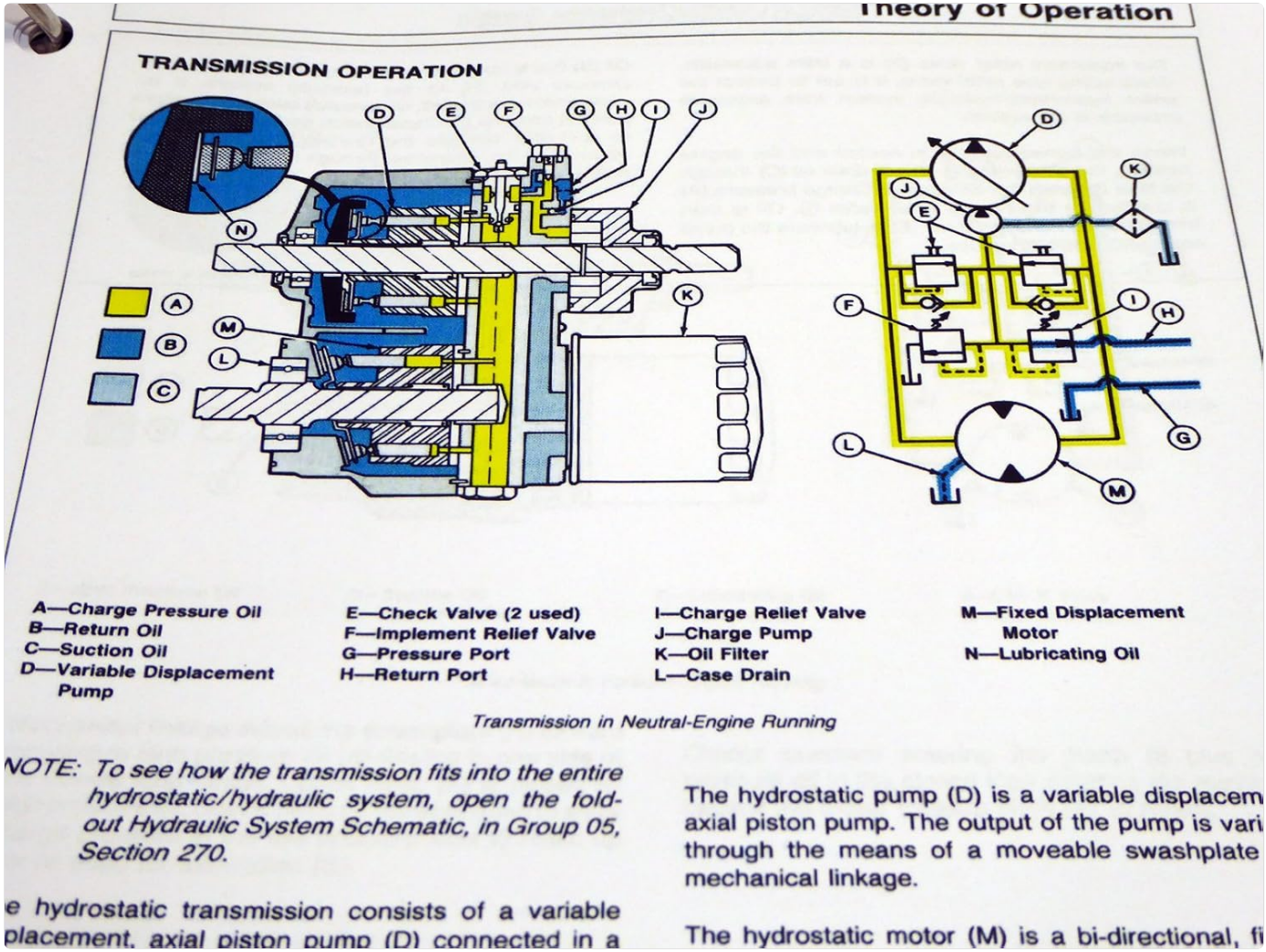


Figure 8: A diagram illustrating the transmission operation, including hydraulic flow paths and component interactions. Understanding these diagrams is key to diagnosing issues within the power train and hydraulic systems.

Specifications

Attribute	Detail
ASIN	B076ZXN3JN
Publisher	TechMedia
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Warranty Information

This technical repair manual is a reprint. For information regarding the quality or condition of the physical manual, please refer to the seller's return policy or contact the seller directly. This manual does not come with a product warranty for the John Deere tractors themselves.

Customer Support

For questions regarding the content or specific repair procedures outlined in this manual, it is recommended to consult with a certified John Deere technician or refer to official John Deere service resources. For inquiries related to the purchase or delivery of this manual, please contact the vendor from whom it was acquired.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question