

Ford 555A, 555B, 655A

Ford 555A, 555B, 655A Tractor Loader Backhoe Service Repair Manual

Comprehensive Guide for Troubleshooting, Overhauling, and Maintenance

1. INTRODUCTION TO YOUR SERVICE REPAIR MANUAL

This manual provides detailed service and repair instructions for the Ford 555A, 555B, and 655A Tractor Loader Backhoe models. It is designed to assist technicians and owners in performing accurate troubleshooting, maintenance, and overhauling procedures to ensure the optimal performance and longevity of your equipment. Refer to this manual for comprehensive information on various systems, including engine, fuel, electrical, transmission, hydraulic, and more. Following the guidelines within this manual will help in correctly diagnosing issues and executing repairs.



Image 1.1: Front cover of the Ford 555A, 555B, 655A Tractor Loader Backhoe Service Repair Manual. The cover features the Ford logo, model numbers, and an illustration of a backhoe, indicating its purpose as a repair guide.

2. NAVIGATING THE MANUAL: STRUCTURE AND CONTENT

This manual is organized into distinct sections, each dedicated to a specific system or component of the Ford 555A, 555B, and 655A Tractor Loader Backhoe. Each section typically includes detailed descriptions, troubleshooting steps, repair procedures, and specifications.

2.1 Key Sections Covered:

- **Engine Systems:** Covers components, operation, and repair of the engine.
- **Fuel Systems:** Details on fuel delivery, injection, and related components.
- **Electrical System:** Wiring, controls, battery, and starting motor information.
- **Clutch:** Overhaul, servicing, and component details.
- **Transmission Systems:** Manual and torque converter transmissions, troubleshooting, and specifications.
- **Cab, Heating, Air Conditioning:** Removal, installation, and servicing of environmental controls.
- **Rear Axle and Brakes:** Overhaul procedures and specifications.
- **Hydraulic System:** Description, operation, component removal, installation, and troubleshooting.
- **Steering System:** Hydrostatic steering, power steering pump, and reservoir details.
- **Front Axle:** Two-wheel drive and four-wheel drive configurations, transfer gear assembly.
- **Wheels and Tires:** Information on maintenance and separation procedures.
- **Separating the Unit:** Instructions for component removal and installation, including engine, transmission, and rear axle.

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Image 2.1: A page from the manual displaying a partial table of contents. Sections listed include Engine Systems, Fuel Systems, Electrical System, Clutch, Transmission Systems, Cab, Heating, Air Conditioning, Rear Axle and Brakes, Hydraulic System, and Steering System, with corresponding page numbers.

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Image 2.2: Another page from the manual's table of contents, detailing sections on Front Axle (Two Wheel Drive, Four Wheel Drive, Transfer Gear Assembly), Wheels and Tires, and procedures for Separating the Unit (Engine Removal, Transmission Removal, Rear Axle Removal).

3. DETAILED REPAIR AND OVERHAULING PROCEDURES

Each repair section within this manual provides step-by-step instructions, often accompanied by diagrams and illustrations, to guide you through complex procedures. It is crucial to follow these steps precisely to ensure proper assembly and function.

3.1 Transmission System Overhaul Example:

The manual includes detailed instructions for overhauling the transmission system. This involves disassembling components, inspecting for wear, replacing parts as needed, and reassembling according to specifications. Diagrams clearly label parts and show their correct orientation.

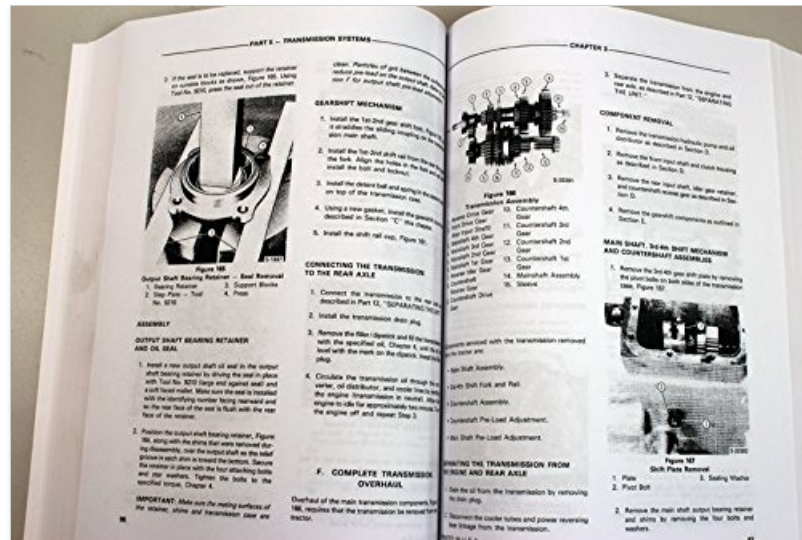


Image 3.1: An open page from the manual illustrating detailed repair procedures for the transmission system. The page features exploded diagrams of components, such as output shaft bearing retainers and gearshift mechanisms, alongside numbered instructions for removal and installation.

3.2 Hydraulic System Component Details:

Understanding the hydraulic system is critical for many functions of the backhoe. The manual provides diagrams and explanations for components like the oil distributor and pressure regulating valve, detailing their function and how to service them.

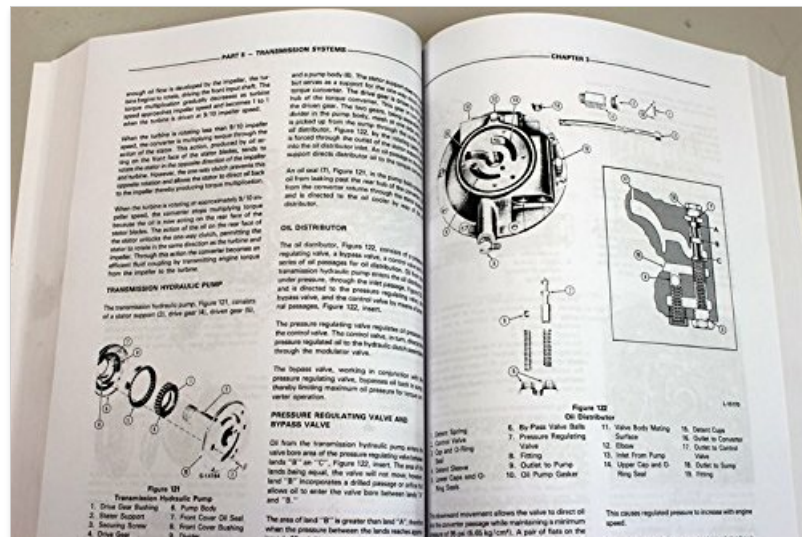


Image 3.2: An open page from the manual focusing on hydraulic system components. It displays detailed diagrams of the oil distributor and pressure regulating valve, with numbered parts and accompanying text explaining their operation and service procedures.

4. TROUBLESHOOTING COMMON ISSUES

Each system section within this manual includes dedicated troubleshooting guides. These guides help identify the root cause of operational problems by providing symptom-based diagnostics and recommended corrective actions.

Always consult the relevant section for specific troubleshooting charts and procedures.

For example, issues with the electrical system might involve checking battery voltage, wiring continuity, or starter motor function, all detailed within the manual's electrical section.

5. TECHNICAL SPECIFICATIONS

This manual contains detailed technical specifications for the Ford 555A, 555B, and 655A Tractor Loader Backhoe. These specifications include critical measurements, torque values, fluid capacities, and operational parameters necessary for correct maintenance and repair.

Refer to the specific sections for detailed specifications pertaining to the engine, transmission, hydraulic system, and other components.

5.1 Manual Details:

- **Publisher:** Ford 555A/555B/655A Technical Shop Manuals
- **Publication Date:** January 1, 1980
- **Language:** English
- **Item Weight:** 3.44 pounds

6. WARRANTY AND SUPPORT INFORMATION

Information regarding product warranty or direct manufacturer support for the Ford 555A, 555B, and 655A Tractor Loader Backhoe is not provided within this service repair manual. For such details, please consult your equipment dealer or the official Ford agricultural machinery documentation.