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Ford 600, 700, 800, 900, 601, 701, 801, 901, 1801 Series Tractors (1954-1962)

Ford Tractors Service Manual

Models: 600, 700, 800, 900, 601, 701, 801, 901, 1801 Series (1954-1962)

Introduction

This document serves as a comprehensive service manual for Ford Tractors manufactured between 1954 and 1962, covering the 600, 700, 800, 900, 601, 701, 801, 901, and 1801 Series. It provides detailed information for the repair and rebuilding of all components, applicable to both gasoline and diesel models, including General Purpose, Row Crop, and Industrial Tractors. This manual is an essential resource for maintenance and repair procedures.



Image: Front cover of the Ford Tractors Service Manual, displaying the title "FORD 1954-1962 Tractors Service Manual" and listing the covered series.

Manual Structure and Content Overview

The manual is organized into several main parts, each detailing specific systems and components of the Ford Tractors. This structure allows for easy navigation to relevant repair and maintenance information.

Part One: Power Plant

This section covers the engine and related systems, including electrical, ignition, fuel, and cooling components.

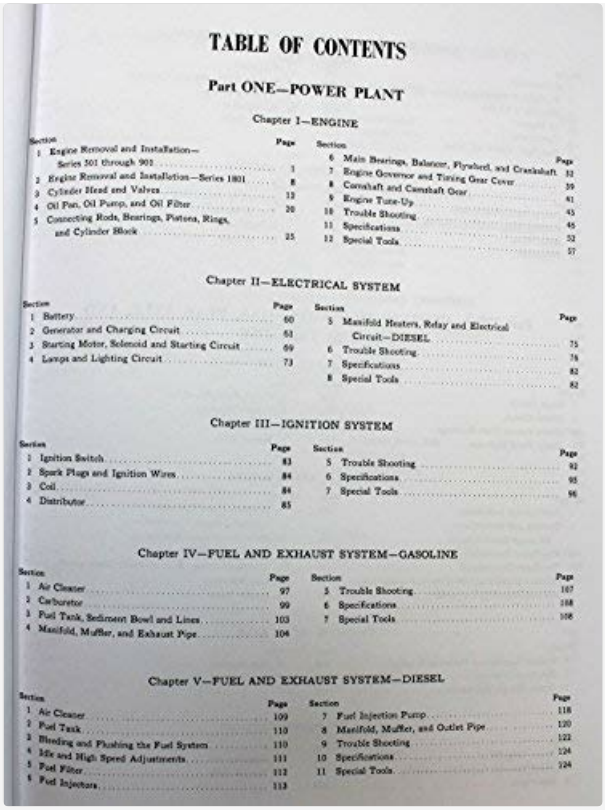


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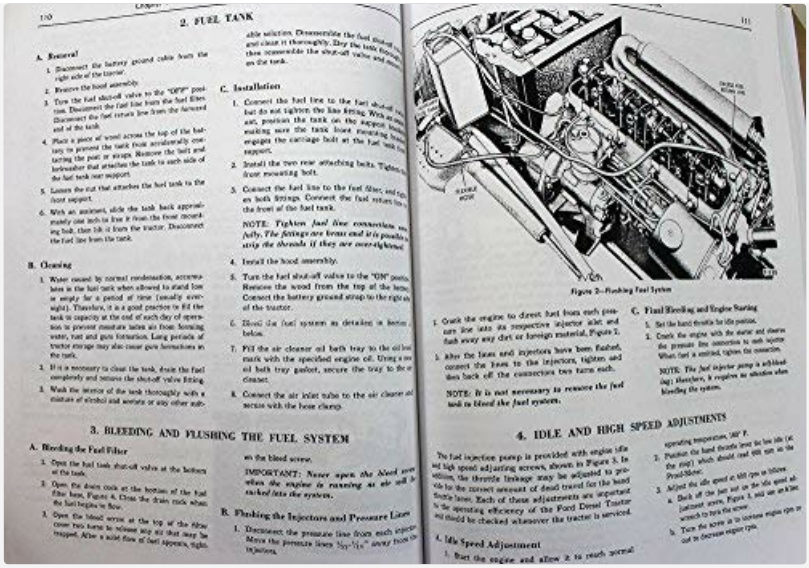
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Image: A page from the manual showing the Table of Contents for Part One, which includes chapters on Engine, Electrical System, Ignition System, Fuel and Exhaust System (Gasoline/Diesel), and Cooling System.

- **Chapter I: Engine** - Engine removal, installation, cylinder head, valves, oil pump, oil filter, connecting rods, bearings, pistons, rings, and cylinder block.
- **Chapter II: Electrical System** - Battery, generator, charging circuit, starting motor, solenoid, starting circuit, and lamps.
- **Chapter III: Ignition System** - Ignition switch, spark plugs, ignition wires, coil, and distributor.
- **Chapter IV: Fuel and Exhaust System—Gasoline** - Air cleaner, carburetor, fuel tank, sediment bowl, lines, manifold, muffler, and exhaust pipe.
- **Chapter V: Fuel and Exhaust System—Diesel** - Air cleaner, fuel tank, bleeding and flushing, fuel injectors, fuel injection pump, manifold, muffler, and outlet pipe.
- **Chapter VI: Fuel and Exhaust System—LP-Gas** - Construction, principles of operation, handling of LP-Gas, air cleaner, carburetors, fuel tank, valves, and lines.
- **Chapter VII: Cooling System** - Care of the cooling system, radiator, hose, pressure cap, water pump, and thermostat.



2. FUEL TANK

A. Removal

B. Cleaning

C. Installation

3. BLEEDING AND FLUSHING THE FUEL SYSTEM

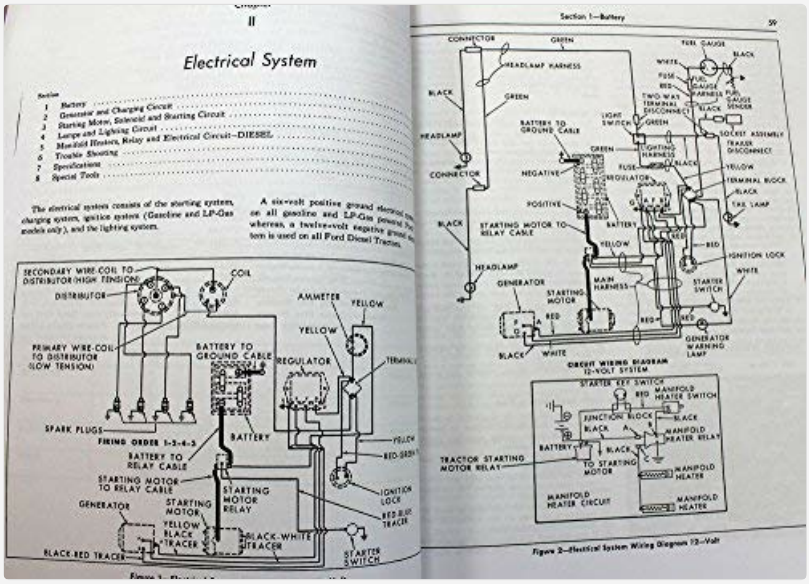
A. Bleeding the Fuel Filter

B. Flushing the Injectors and Pressure Lines

4. IDLE AND HIGH SPEED ADJUSTMENTS

Figure 2—Flushing Fuel System

Image: A detailed page from the manual illustrating procedures for fuel tank removal, cleaning, bleeding, flushing the fuel system, and idle/high speed adjustments. Includes diagrams of the fuel system.



II

Electrical System

Section 1—Battery

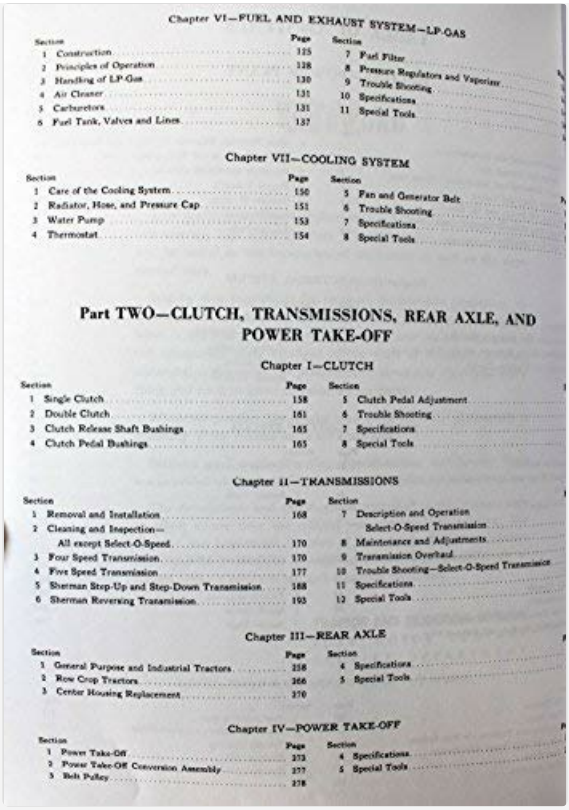
CIRCUIT WIRING DIAGRAM 12-VOLT SYSTEM

Figure 2—Electrical System Wiring Diagram 12-Volt

Image: A page from the manual displaying comprehensive electrical system diagrams, including wiring for battery, generator, starting motor, ignition, and headlamps for 6-volt and 12-volt systems.

Part Two: Clutch, Transmissions, Rear Axle, and Power Take-Off

This part focuses on the drivetrain components of the tractor.



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Image: A page from the manual showing the Table of Contents for Part Two, which includes chapters on Clutch, Transmissions, Rear Axle, and Power Take-Off.

- **Chapter I: Clutch** - Single clutch, double clutch, clutch release shaft bushings, clutch pedal bushings, and clutch pedal adjustment.
- **Chapter II: Transmissions** - Removal, installation, cleaning, inspection, four-speed transmission, five-speed transmission, Sherman step-up and step-down transmission, Sherman reversing transmission, description, operation, Select-O-Speed transmission, maintenance, adjustments, and transmission overhaul.
- **Chapter III: Rear Axle** - General purpose and industrial tractors, row crop tractors, and center housing replacement.
- **Chapter IV: Power Take-Off** - Power take-off, power take-off conversion assembly, and belt pulley.

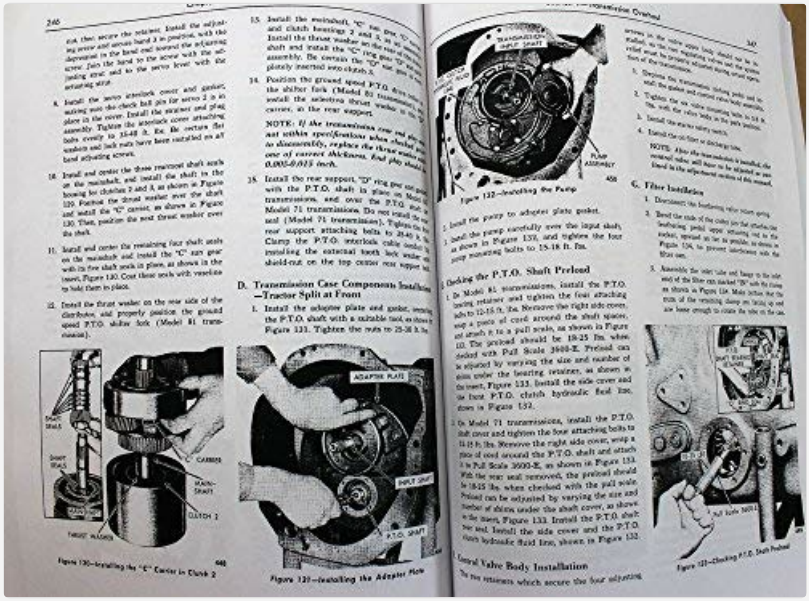
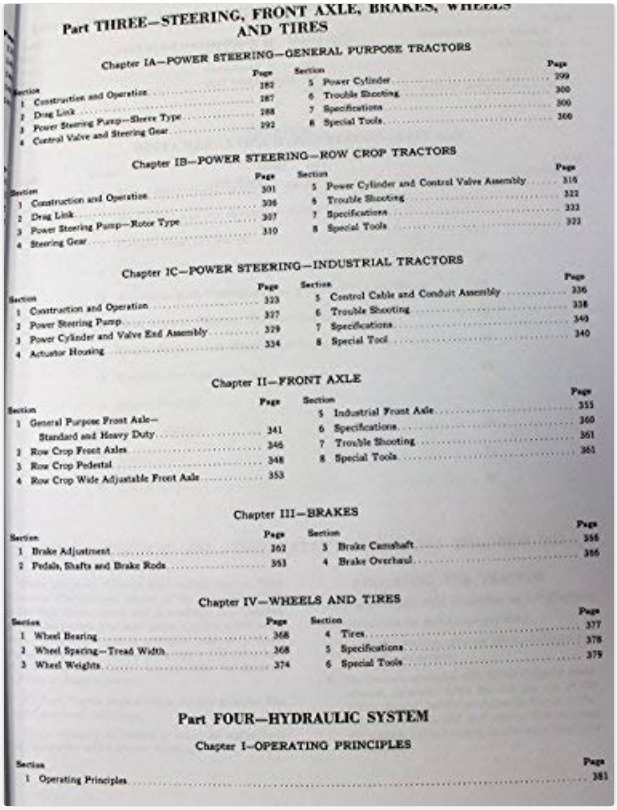


Image: A page from the manual illustrating the transmission and PTO (Power Take-Off) components, including diagrams and instructions for checking PTO shaft preload and installing the adapter plate.

Part Three: Steering, Front Axle, Brakes, Wheels and Tires

This section details the steering, axle, braking, and wheel systems.



Part THREE—STEERING, FRONT AXLE, BRAKES, WHEELS AND TIRES

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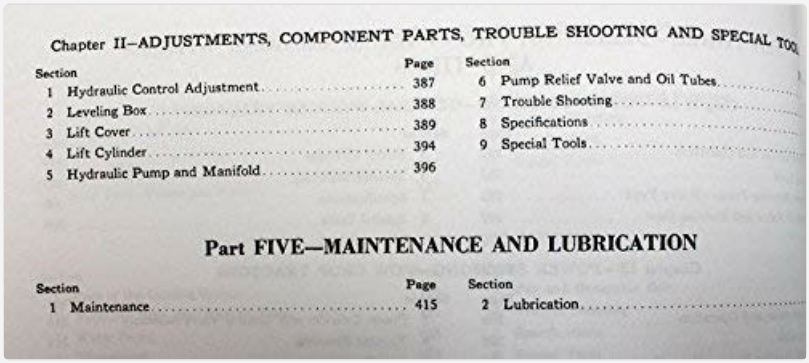
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Image: A page from the manual showing the Table of Contents for Part Three, which includes chapters on Power Steering (General Purpose, Row Crop, Industrial), Front Axle, Brakes, and Wheels and Tires.

- **Chapter I: Power Steering** - Covers general purpose, row crop, and industrial power steering systems, including construction, operation, drag link, power steering pump, control valve, and steering gear.
- **Chapter II: Front Axle** - Industrial front axle, standard and heavy duty, row crop front axles, row crop pedestal, and row crop wide adjustable front axle.
- **Chapter III: Brakes** - Brake adjustment, pedals, shafts, brake rods, brake camshaft, and brake overhaul.
- **Chapter IV: Wheels and Tires** - Wheel bearing, wheel spacing, tread width, wheel weights, tires, and specifications.

Part Four: Hydraulic System

This part provides in-depth information on the tractor's hydraulic system, including operating principles, adjustments, and troubleshooting.



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Image: A page from the manual showing the Table of Contents for Part Four (Hydraulic System) and Part Five (Maintenance and Lubrication).

- **Chapter I: Operating Principles** - Detailed explanation of how the hydraulic system functions.
- **Chapter II: Adjustments, Component Parts, Trouble Shooting and Special Tools**- Hydraulic control adjustment, leveling box, lift cover, lift cylinder, hydraulic pump, manifold, pump relief valve, oil tubes, and troubleshooting procedures.

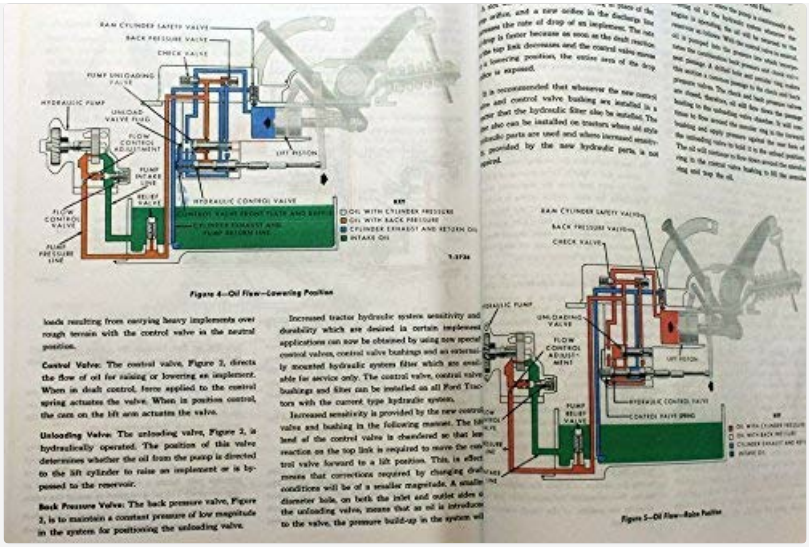


Image: A page from the manual featuring color hydraulic flow diagrams, illustrating the flow of fluid in the hydraulic system for both lowering and raising operations, with detailed explanations of control valve, unloading valve, and back pressure valve functions.

Part Five: Maintenance and Lubrication

This final part covers general maintenance and lubrication schedules and procedures to ensure the longevity and optimal performance of the tractor.

- **Section 1: Maintenance** - General maintenance procedures.
- **Section 2: Lubrication** - Detailed lubrication requirements and schedules.

Specifications

This manual, identified as Manual Number SE-8175, is a new print reproduction of the OEM Master Ford Factory Service Manual. It is a large manual, approximately 8.5x11 inches and 1 inch thick, containing over 420 pages of comprehensive information.

Attribute	Value
Publication Date	January 1, 1961
Language	English
Item Weight	2.3 pounds
Manual Number	SE-8175
Page Count	420+ pages
Dimensions	8.5 x 11 inches, 1 inch thick

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