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- › [Ford](#) /
- › [Ford 3400, 3500, 4000, 4400, 4500, 5000, 5500, 7000 Tractor Service Manual](#)

Ford 3400, 3500, 4000, 4400, 4500, 5000, 5500, 7000

Ford Tractor Service Manual

Models: 3400, 3500, 4000, 4400, 4500, 5000, 5500, 7000

INTRODUCTION

This service manual provides comprehensive instructions and diagrams for the maintenance, repair, and overhaul of Ford 3400, 3500, 4000, 4400, 4500, 5000, 5500, and 7000 series tractors. It covers both SE 9205 and SE 9205 II volumes, encompassing a wide range of models including 2000, 3000, 3400, 3500, 4000, 4400, 4500, 5000, 5500, and 7000 tractors. With 1,636 pages, including color and foldout diagrams, this manual is an essential resource for technicians and owners.

Refer to this manual for detailed procedures to ensure proper operation and longevity of your Ford tractor.



Image: Front cover of the Ford Tractor Repair Manual, presented in two ring-bound volumes.

SAFETY INFORMATION

Always prioritize safety when performing any maintenance or repair work on your tractor. Failure to follow safety precautions can result in serious injury or death. Read and understand all safety warnings and instructions before

proceeding.

- Ensure the tractor is on a level surface and the engine is off before beginning work.
- Engage the parking brake and block the wheels to prevent accidental movement.
- Disconnect the battery to prevent accidental starting or electrical shorts.
- Wear appropriate personal protective equipment (PPE), including safety glasses, gloves, and sturdy footwear.
- Use proper tools for each task and ensure they are in good condition.
- Never work under a raised tractor without adequate support stands.
- Be aware of hot surfaces and pressurized systems.

GENERAL INFORMATION

Production Codes and Serial Numbers

Identifying the correct production codes and serial numbers is crucial for ordering parts and ensuring you are following the correct service procedures for your specific tractor model. These numbers are typically located on the tractor's frame or engine block.

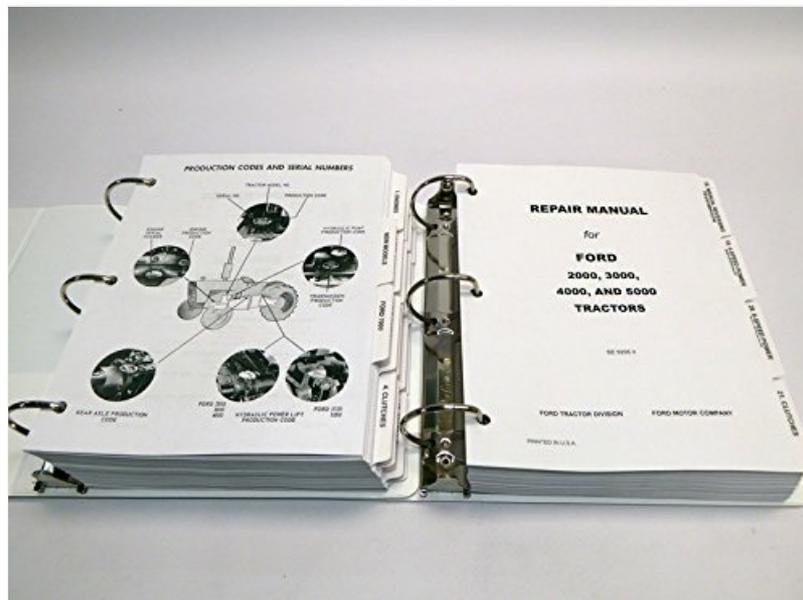


Image: An open page from the manual illustrating the locations of production codes and serial numbers on various tractor components, including the rear axle, hydraulic pump, and engine.

Consult the diagram above and the relevant section in the manual to accurately locate and interpret your tractor's identification numbers.

ENGINE SYSTEMS

Fuel Systems

This section details the components and operation of the tractor's fuel system, including the carburetor, fuel lines, and filters. Proper maintenance of the fuel system is essential for optimal engine performance and fuel efficiency.

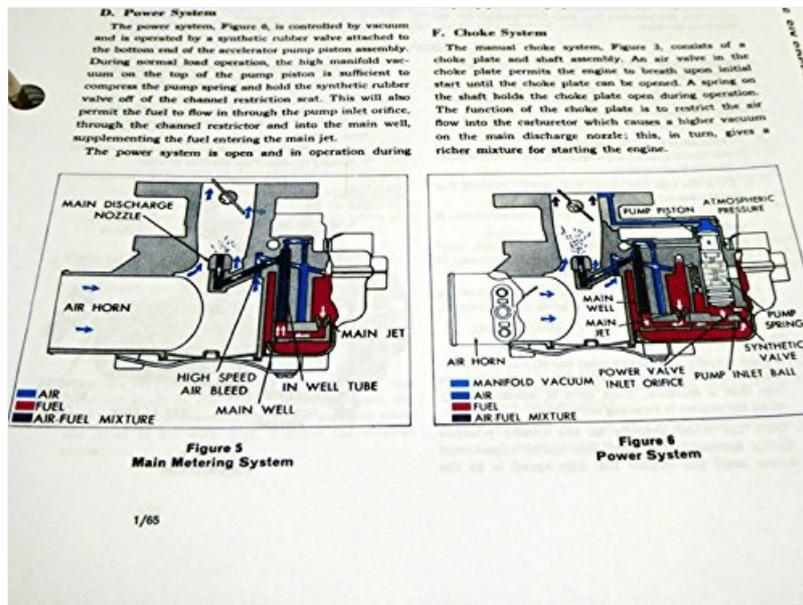


Image: Detailed diagrams illustrating the Main Metering System and Power System within a carburetor, showing air and fuel flow paths.

Camshaft Drive Gear and Adapter

Instructions for the inspection, cleaning, and installation of the camshaft drive gear and adapter are provided here. Accurate installation is critical for correct engine timing.



Image: Manual page showing figures and text for removing the camshaft drive gear adapter and details of the camshaft drive gear and bushing.

Follow the step-by-step instructions for removing and installing these components, paying close attention to torque specifications and timing marks.

ELECTRICAL SYSTEMS

This section contains detailed wiring diagrams and troubleshooting guides for the tractor's electrical system. Understanding these diagrams is essential for diagnosing and repairing electrical issues.

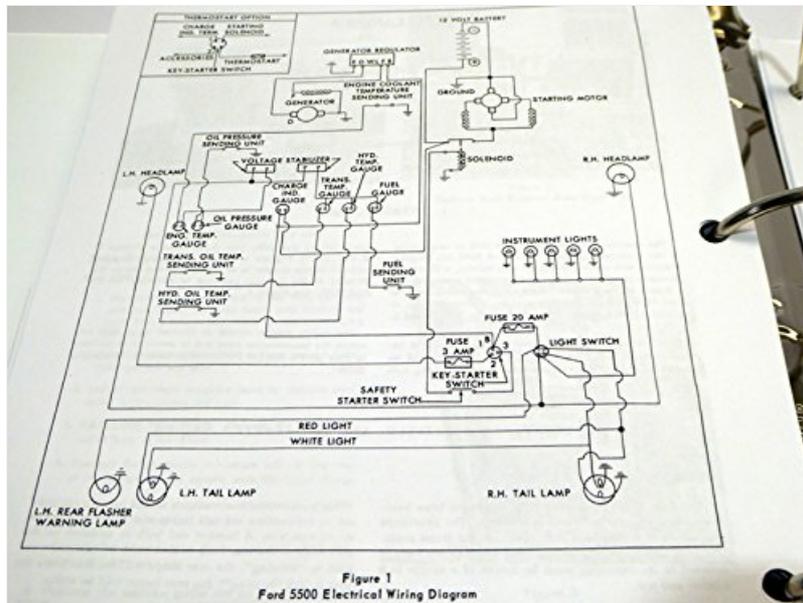


Image: A comprehensive electrical wiring diagram for the Ford 5500 tractor, showing connections for the battery, generator, starter, lights, and various sensors.

Always disconnect the battery before working on any electrical components to prevent short circuits or electrical shock.

TRANSMISSION AND DRIVETRAIN

Clutches and Rear Axle

This part of the manual covers the inspection, adjustment, and repair of the tractor's clutch system and rear axle components. Proper clutch operation is vital for smooth power transfer.

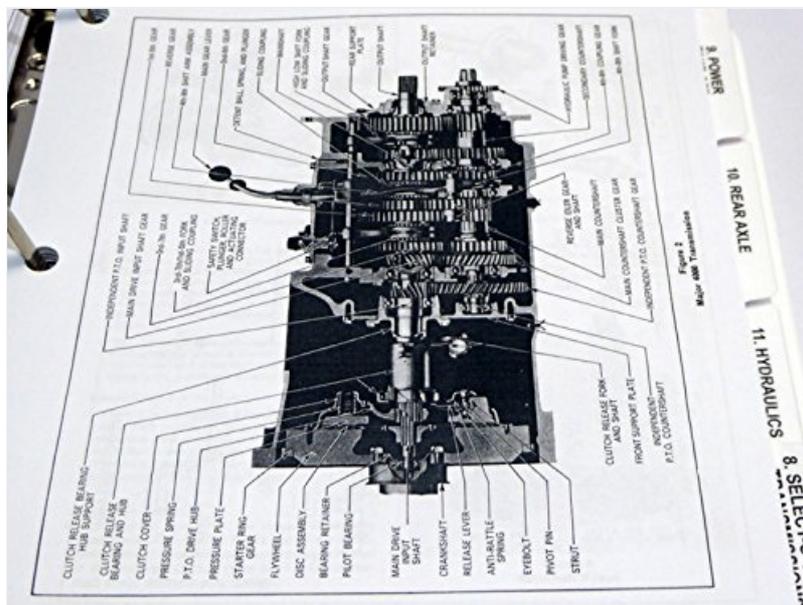


Image: A detailed cutaway diagram illustrating the internal components of a major 4x4 transmission, including gears, shafts, and bearings.

Hydraulics and Select-O-Speed

Detailed procedures for servicing the hydraulic system and Select-O-Speed transmission are included. This involves understanding the various pumps, valves, and control mechanisms.



Image: Manual page displaying figures and instructions for removing the rotor retaining ring and the cam ring and rotor assembly, likely from a hydraulic pump or transmission component.

MAINTENANCE SCHEDULES

Regular maintenance is crucial for the longevity and reliable operation of your Ford tractor. This section outlines recommended service intervals and procedures for various components.

Typical Maintenance Schedule Overview

Interval	Task
Every 50 Hours	Check engine oil level, check coolant level, inspect tire pressure.
Every 250 Hours	Change engine oil and filter, lubricate chassis points, inspect air filter.
Every 500 Hours	Replace fuel filter, inspect battery, check hydraulic fluid level.
Annually / 1000 Hours	Change hydraulic fluid, inspect brake system, check steering linkage.

Refer to the detailed maintenance charts within the manual for specific procedures and fluid types for your tractor model.

TROUBLESHOOTING

This section provides guidance for diagnosing common operational issues. By systematically following the troubleshooting steps, you can identify the root cause of problems and implement appropriate solutions.

Engine Not Starting

- **Check Battery:** Ensure battery terminals are clean and tight, and the battery is fully charged.
- **Fuel Supply:** Verify there is sufficient fuel in the tank and the fuel filter is not clogged.
- **Ignition System:** Inspect spark plugs (gasoline engines) or glow plugs (diesel engines) and associated wiring.
- **Safety Switches:** Confirm all safety switches (e.g., neutral safety switch, PTO disengagement) are correctly engaged.

Hydraulic System Malfunctions

- **Fluid Level:** Check the hydraulic fluid level and add fluid if necessary.
- **Filter:** Inspect and replace the hydraulic filter if it is clogged.
- **Pump:** Listen for unusual noises from the hydraulic pump, which may indicate wear or damage.
- **Valves:** Check for proper operation of control valves and relief valves.

SPECIFICATIONS

This section provides technical specifications for the Ford 3400, 3500, 4000, 4400, 4500, 5000, 5500, and 7000 series tractors. These specifications are crucial for proper maintenance, repair, and part replacement.

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For detailed engine, transmission, hydraulic, and other component-specific specifications, refer to the respective chapters within the manual.

WARRANTY AND SUPPORT

This service manual is a third-party publication designed to assist with the maintenance and repair of Ford tractors. For information regarding original manufacturer warranties for your tractor, please consult your tractor's original owner's manual or contact an authorized Ford dealer.

For support related to the content of this specific service manual, please contact the publisher, TechMedia, or the vendor from whom the manual was purchased.