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MANUAL PREVIEW

Ford

Service Manual

3400, 3500, 3550,

4400, 4500,

5500, & 5550

Volume 1 of 5

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Service Manual

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FORD



Service Manual



Tractor Series

3400, 3500, 3550, 4400, 4500,
5500, and 5550

Part 1 – Engine Systems
Part 2 – Fuel Systems
Part 3 – Electrical System

1965 – 1975

Vol. 1

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FOREWORD

This five-volume manual provides information for the proper servicing of the Ford 2000, 3000, 4000, 5000, and 7000 agricultural tractors and the Ford 3400, 3500, 3550, 4400, 4500, 5500, and 5550 industrial tractors. Keep this manual readily available for reference at all times.

The manual is grouped into 25 parts. Parts 1 through 17 pertain to the agricultural tractors. Parts 18 through 25 pertain to the industrial derivative tractors. Each part contains chapter divisions. The chapters contain such information as general operating principles, detailed inspection and repair procedures, and full specifics regarding troubleshooting, specifications, and special tools. Whenever possible, the special tools are illustrated performing their specific operations.

The page and figure numbers are consecutively numbered throughout each part of the manual and each page bears the date of issue. Specifications listed on some pages may differ from those in the text. In these cases, the specifications listed on the pages bearing the latest issue date should be used. Any reference made in the manual to right, left, front, rear, top, or bottom, is as viewed facing the direction of forward travel from the driver's seat.

The tractor and engine serial numbers, and the production code numbers for the transmission, hydraulic pump, rear axle and hydraulic power lift, are located on the individual components. An explanation covering the usage and location of these numbers is detailed on the following page. The serial numbers and production codes should be used on all correspondence relative to these Ford tractors.

The material contained in this manual was correct at the time the manual was approved for printing. Ford policy is one of continuous improvement and the Ford Motor Company reserves the right to discontinue models at any time or change specifications or design without notice and without incurring obligation.



SAFETY PRECAUTIONS

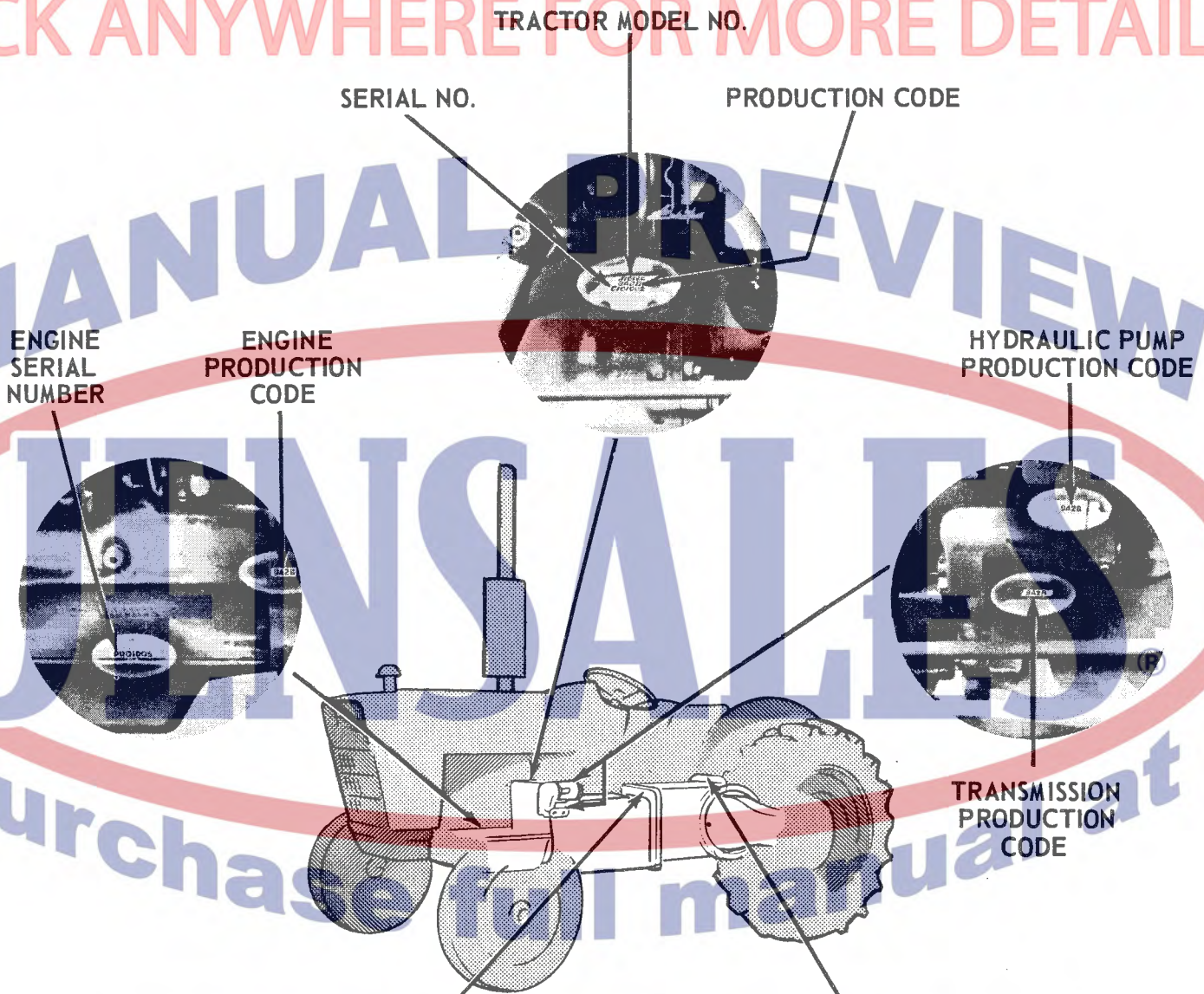
Appropriate service methods and proper repair procedures are essential for the safe, reliable operation of all tractors, as well as the personal safety of the individual doing the work. This manual provides general directions for accomplishing service and repair work with tested, effective techniques. Following them will help ensure reliability.

There are numerous variations in procedures, techniques, tools, and parts for servicing tractors, as well as in the skill of the individual doing the work. This manual cannot possibly anticipate all such variations and provide advice or cautions as to each. Accordingly, anyone who departs from the instructions provided in this manual must first establish that he compromises neither his personal safety nor the machine integrity by his choice of methods, tools, or parts.

PRODUCTION CODES AND SERIAL NUMBERS

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ENGINE SERIAL NUMBER

ENGINE PRODUCTION CODE

TRACTOR MODEL NO.

SERIAL NO.

PRODUCTION CODE

HYDRAULIC PUMP PRODUCTION CODE

TRANSMISSION PRODUCTION CODE

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REAR AXLE PRODUCTION CODE



HYDRAULIC POWER LIFT PRODUCTION CODE



FORD 2000
3000
4000

FORD 5100
5200

Part 3

ELECTRICAL SYSTEM

Chapter 7

ALTERNATOR AND REGULATOR — FORD 7000

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1. INTRODUCTION

ALTERNATOR

The alternator system consists of an alternator and solid state voltage regulator, Figure 1. Figure 2 shows

the terminal arrangement at the rear of the alternator. Figure 3 shows the side view.

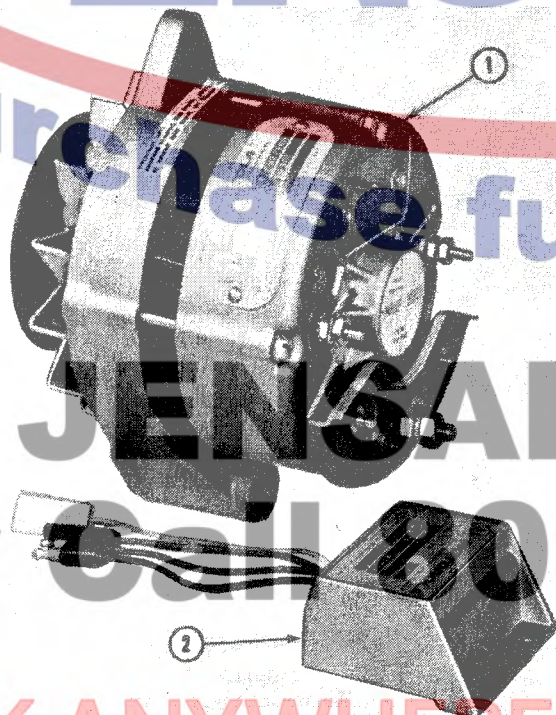


Figure 1

Alternator and Regulator

1. Alternator

2. Voltage Regulator



Figure 2

Alternator Terminal Identification

1. Brush (Field) Terminal

2. Dust Shield

3. Auxiliary Terminal

4. Isolation Diode Assembly

5. Output Terminal (Positive)

6. Ground Terminal (Negative)

Part 11

HYDRAULIC SYSTEMS

Chapter 6

HYDRAULIC SYSTEMS WITH LOAD MONITOR —
FORD 5000 AND 7000 TRACTORS

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4.	Overhaul Lift Cylinder Assembly	22
5.	Overhaul Lift Cover Assembly	23

1. DESCRIPTION AND OPERATION

Figure 1 illustrates a schematic of the valves, controls, and related linkage found in the lift cover of the Load

Monitor hydraulic system. A detailed description of each of these components and their function is provided in this

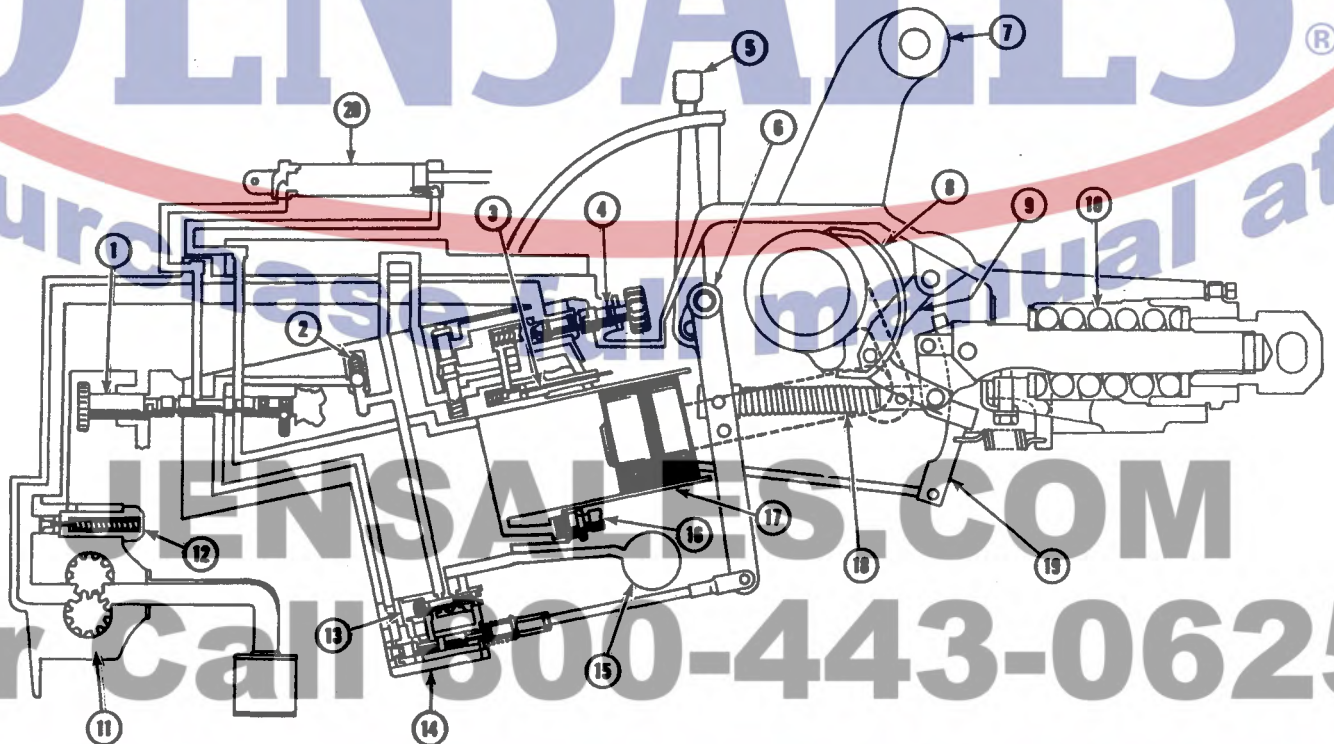


Figure 1
Load Monitor Hydraulic System

- | | | | |
|-----------------------|------------------------------|--------------------|--|
| 1. Selector Valve | 6. Actuating Lever | 11. Hydraulic Pump | 16. Relief Valve |
| 2. Check Valve | 7. Lift Arm | 12. Relief Valve | 17. Lift Piston |
| 3. Override Valve | 8. Cam | 13. Unload Valve | 18. Selector (Control) Rod and Roller Assembly |
| 4. Flow Control Valve | 9. Position Control Link | 14. Control Valve | 19. Selector Linkage Assembly |
| 5. Lift Control Lever | 10. Draft Control Mainspring | 15. Filter | 20. Special Load Monitor Remote Cylinder |

Part 1

ENGINE SYSTEMS

Chapter 1

ENGINES AND LUBRICATION SYSTEM

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Part 1
ENGINE SYSTEMS

Chapter 1

ENGINES AND LUBRICATION SYSTEM

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1. DESCRIPTION AND OPERATION

This part of the manual covers both the 3- and 4-cylinder engines. See Figures 1 through 4. Both the 3- and 4-cylinder engines are available with the diesel or gasoline fuel systems.

This part of the manual deals with the disassembly, inspection and repair, and assembly of engines and the lubrication

system, plus the cooling system. Service procedures for all engines are basically the same. The procedures described in the following pages apply equally to all engines. The engine identification chart will aid in identifying the engine options available.

THE ENGINE IDENTIFICATION CHART

MODEL

	FORD		FORD		FORD		FORD	
	2000		3000		4000		5000	
FUEL SYSTEM	GAS	DIESEL	GAS	DIESEL	GAS	DIESEL	GAS	DIESEL
NO. OF CYLINDERS	3	3	3	3	3	3	4	4
BORE	4.2 in. (106.68 mm.)	4.2 in.	4.2 in. (106.68 mm.)	4.2 in.	4.4 in. (111.76 mm.)	4.4 in.	4.2 in. (106.68 mm.)	4.2 in.
STROKE	3.8 in. (96.52 mm.)	3.8 in. (96.52 mm.)	3.8 in. (96.52 mm.)	4.2 in. (106.68 mm.)	4.2 in. (106.68 mm.)	4.4 in. (111.76 mm.)	4.2 in. (106.68 mm.)	4.2 in. (106.68 mm.)
DISPLACEMENT	158 cu. ins. (2590 c.c.)	158 cu. ins. (2590 c.c.)	158 cu. ins. (2590 c.c.)	175 cu. ins. (2868 c.c.)	192 cu. ins. (3147 c.c.)	201 cu. ins. (3300 c.c.)	233 cu. ins. (3819 c.c.)	233 cu. ins. (3819 c.c.)

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Chapter 4

TROUBLE SHOOTING, SPECIFICATIONS,
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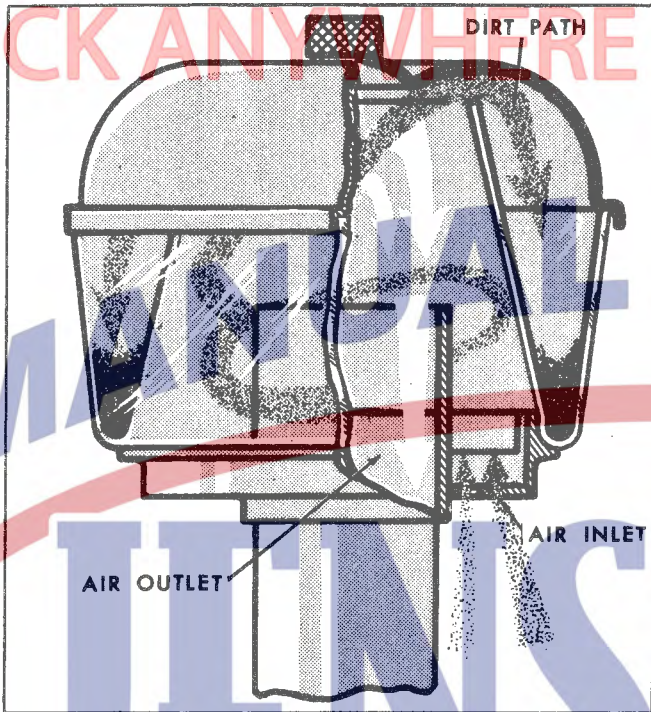


Figure 17
Pre-Cleaner

FUEL TANK, FILTERS, AND LINES

The fuel tank, Figure 18, is located to the rear and above the engine. The tank has a vented cap and the filler neck contains an injector leak-off line connector. The fuel tank outlet is located in the bottom right front corner of the tank. The fuel shut-off valve is an integral part of the outlet fitting. In the top of the fuel shut-off valve is a nylon screen filter.

The Dexta 2000 Tractor has one disposable element filter whereas the Super Dexta 3000 and Major 4000 Tractors utilize two disposable element filters. Fuel flows from the tank through the line into the filter adapter inlet. As the fuel passes through the elements in parallel, it flows around the middle retaining bolts and up through a cross drilling to the fuel line to the injection pump. The incoming fuel and the filtered fuel are kept separated at the top of the filters by hollow bosses containing O-rings which seal against the O.D. of the center posts. The fuel is drawn from the adapter housing into the injection pump inlet by the transfer pump vacuum. The transfer pump delivers fuel to the injection pump to supply fuel at high pressure to each injector, and provides extra fuel which lubricates and cools the injection pump. Such extra fuel is recirculated from a fitting on the pump housing to the return feed port of the filter.

The Super Major 5000 Tractors utilize the same dual filter arrangement except the fuel flows to the fuel lift

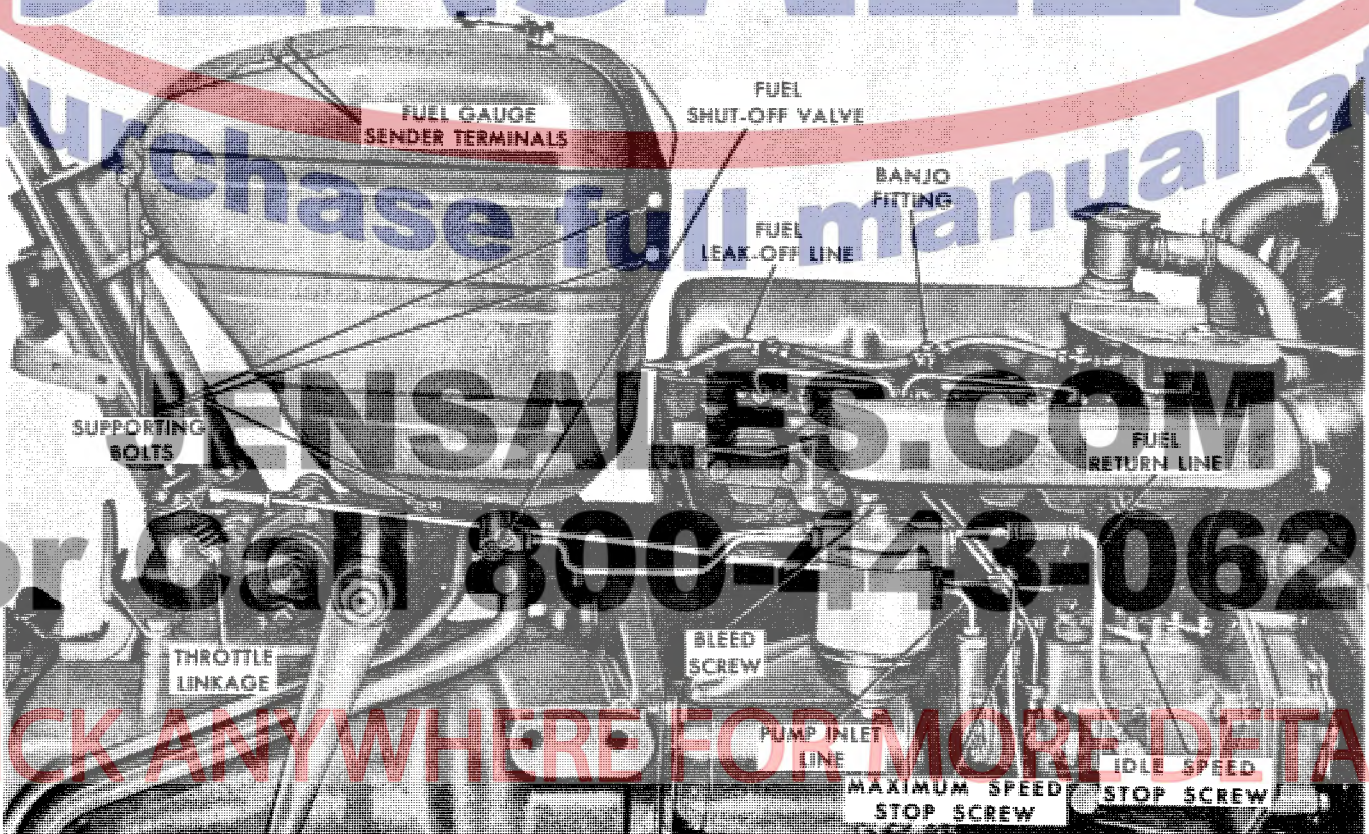


Figure 18
Distributor-Type Fuel System (Dexta 2000 Shown)

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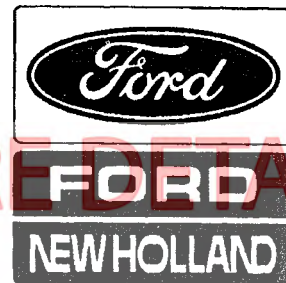
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