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› Farmall 450 Tractor Service Manual (1956-1958)

## Jensales 450

# Farmall 450 Tractor Service Manual (1956-1958)

Detailed service and repair instructions for the Farmall 450 Tractor.

## INTRODUCTION

This service manual provides comprehensive instructions for the maintenance, repair, and overhaul of the Farmall 450 Tractor models produced between 1956 and 1958. It is intended for qualified service personnel and individuals with a thorough understanding of tractor mechanics. Adherence to these procedures will ensure proper operation and longevity of your Farmall 450 Tractor.

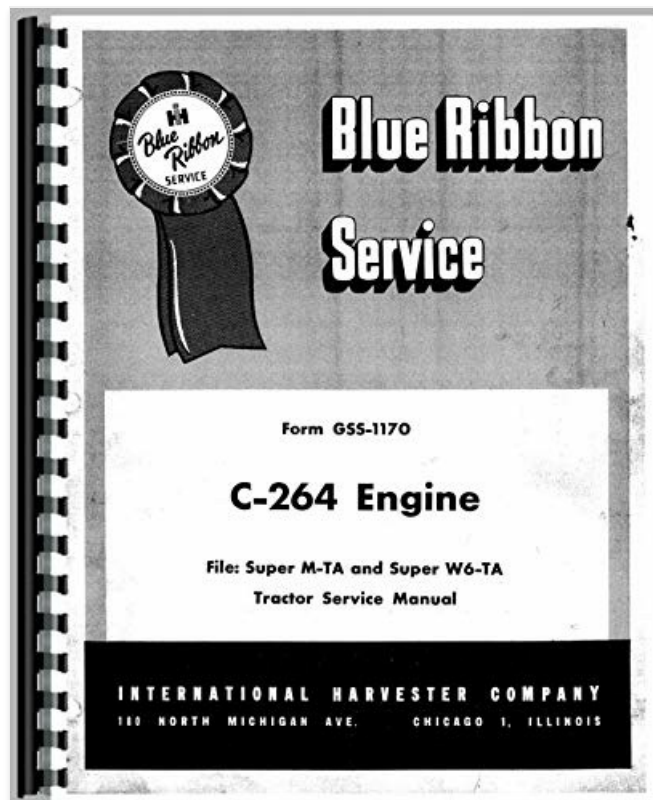
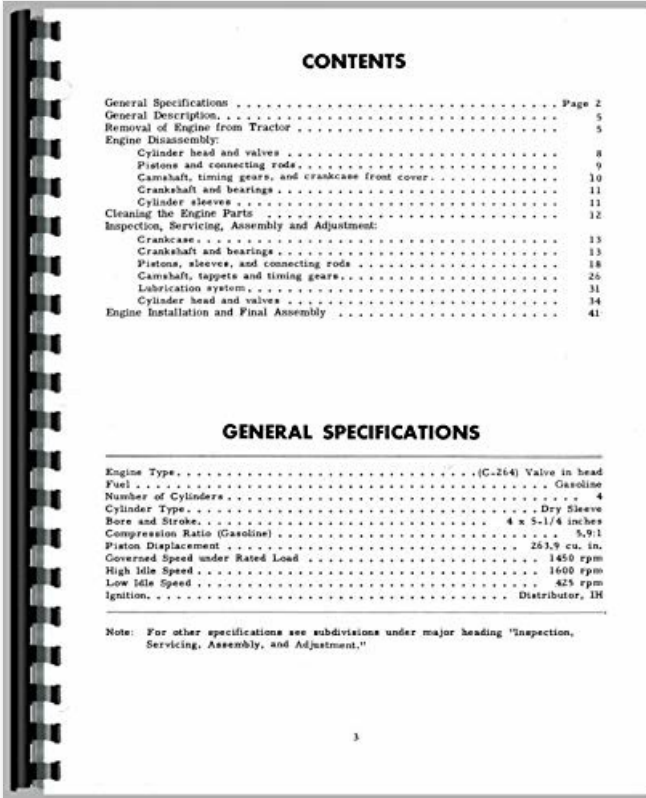


Image: Front cover of the Farmall 450 Tractor Service Manual, featuring "Blue Ribbon Service" and "C-264 Engine" details, indicating it is a service manual for the C-264 engine used in these tractors.

## GENERAL SPECIFICATIONS

This section outlines the key technical specifications for the Farmall 450 Tractor's C-264 engine. These specifications are crucial for proper service and adjustment.



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GENERAL SPECIFICATIONS	
Engine Type . . . . .	(C-264) Valve in head
Fuel . . . . .	Gasoline
Number of Cylinders . . . . .	4
Cylinder Type . . . . .	Dry Sleeve
Bore and Stroke . . . . .	4 x 5-1/4 inches
Compression Ratio (Gasoline) . . . . .	5.9:1
Piston Displacement . . . . .	263.9 cu. in.
Governed Speed under Rated Load . . . . .	1450 rpm
High Idle Speed . . . . .	1600 rpm
Low Idle Speed . . . . .	425 rpm
Ignition . . . . .	Distributor, IH

Note: For other specifications see subdivisions under major heading "Inspection, Servicing, Assembly, and Adjustment."

Image: A page from the service manual showing the table of contents and detailed general specifications for the C-264 engine, including engine type, bore, stroke, and compression ratio.

### C-264 Engine Specifications:

- **Engine Type:** C-264 Valve in head, Gasoline
- **Number of Cylinders:** 4
- **Cylinder Type:** Dry Sleeve
- **Bore and Stroke:** 4 x 5-1/4 inches
- **Compression Ratio (Gasoline):** 5.9:1
- **Piston Displacement:** 263.9 cu. in.
- **Governed Speed under Rated Load:** 1450 rpm
- **High Idle Speed:** 1600 rpm
- **Low Idle Speed:** 425 rpm
- **Ignition:** Distributor, IH

Note: For other specifications, refer to subdivisions under major heading "Inspection, Servicing, Assembly, and Adjustment."

## ENGINE OVERVIEW AND DISASSEMBLY

This section provides a general description of the engine components and detailed procedures for engine disassembly. Proper disassembly is critical for inspection, repair, and replacement of internal parts.

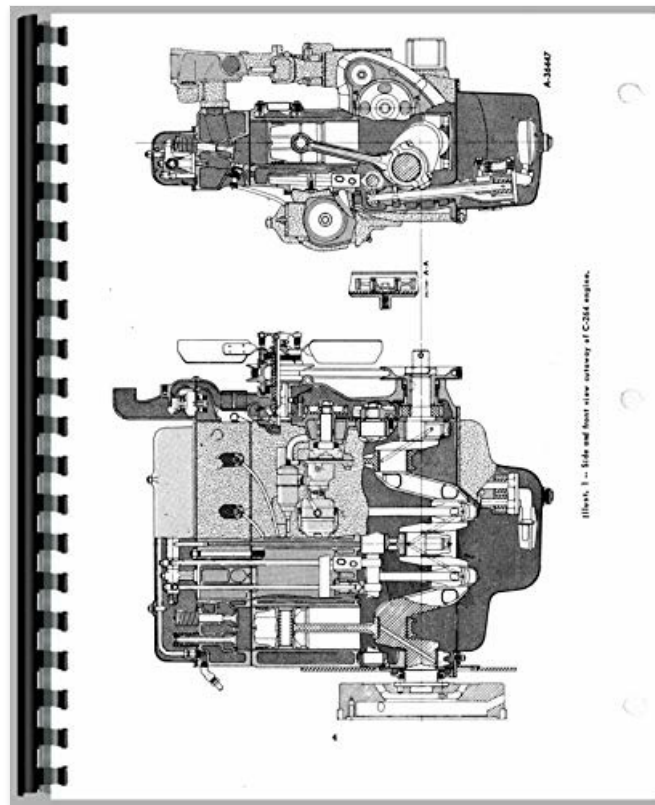


Image: Illustration 1, showing a side and front cutaway view of the C-264 engine, detailing internal components and their arrangement.

## Key Disassembly Steps:

1. **Removal of Engine from Tractor:** Detailed steps for safely detaching the engine from the tractor chassis.
2. **Engine Disassembly:**
  - Cylinder head and valves
  - Pistons and connecting rods
  - Camshaft, timing gears, and crankcase front cover
  - Crankshaft and bearings
  - Cylinder sleeves
3. **Cleaning of Engine Parts:** Instructions for proper cleaning and inspection of all disassembled components.

## INSPECTION, SERVICING, ASSEMBLY, AND ADJUSTMENT

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This section covers the critical procedures for inspecting components for wear, performing necessary servicing, and correctly assembling and adjusting the engine for optimal performance.

### Detailed Procedures Include:

- **Crankcase:** Inspection and servicing of the crankcase and its components.
- **Crankcase bearings:** Procedures for inspection, replacement, and proper installation.
- **Pistons, sleeves, and connecting rods:** Detailed instructions for checking tolerances, replacing parts, and correct assembly.
- **Camshaft, tappets and timing gears:** Adjustment and synchronization procedures.
- **Lubrication system:** Maintenance and inspection of oil pump, lines, and filters.
- **Cylinder head and valves:** Servicing, grinding, and adjustment of valves and cylinder head components.

- **Engine installation and Final Assembly:** Steps for re-installing the engine into the tractor and performing final checks and adjustments.

## MAINTENANCE SCHEDULE

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Regular maintenance is essential for the reliable operation and longevity of your Farmall 450 Tractor. Refer to the detailed sections within this manual for specific procedures.

### Recommended Maintenance Intervals

Service Item	Interval	Reference Section
Engine Oil Check/Change	Daily/Every 100 hours	Lubrication System
Air Filter Cleaning	Every 50 hours	Cleaning of Engine Parts
Valve Clearance Adjustment	Every 500 hours	Cylinder Head and Valves
Ignition System Check	Annually	General Specifications (Ignition)

*Always consult the specific sections for detailed instructions and safety precautions.*

## TROUBLESHOOTING

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This section provides guidance for diagnosing common issues that may arise with your Farmall 450 Tractor. For complex problems, it is recommended to consult a qualified mechanic or refer to the specific repair sections within this manual.

### Common Issues and Solutions:

- **Engine Fails to Start:** Check fuel supply, ignition system, and battery charge. Refer to "Ignition" in General Specifications.
- **Loss of Power:** Inspect fuel filters, air filter, and valve clearances. Refer to "Lubrication System" and "Cylinder Head and Valves".
- **Unusual Engine Noises:** Investigate piston, connecting rod, or crankshaft bearing issues. Refer to "Pistons and connecting rods" and "Crankshaft and bearings".
- **Overheating:** Check coolant levels, radiator, and thermostat. *(Note: Specific cooling system details may be found in other related manuals or general engine sections.)*

## WARRANTY AND SUPPORT

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This manual is a reproduction of the original service document. Information regarding product warranty or direct manufacturer support for the Farmall 450 Tractor (1956-1958 models) is not provided within this publication due to its historical nature. For parts and specialized service, please consult vintage tractor specialists or authorized dealers for International Harvester legacy products.

