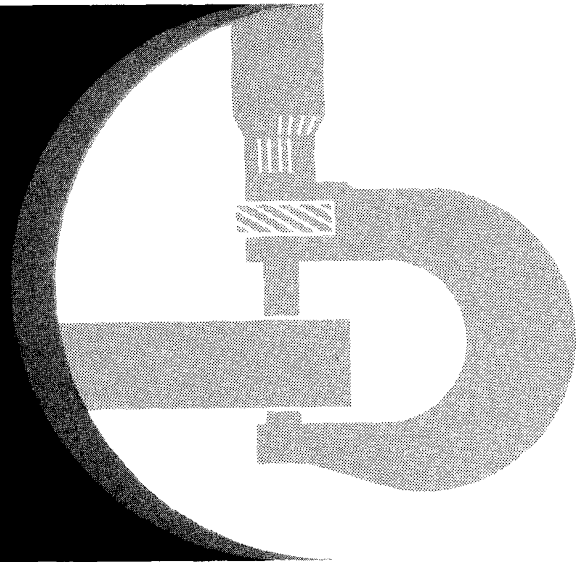


# John Deere JD350 Crawler Tractors and Crawler Loaders



## Service Manual

John Deere Dubuque Works  
SM-2063 (Jan-74)



SERVICE MANUAL

# JOHN DEERE JD 350 CRAWLER TRACTORS AND CRAWLER LOADERS

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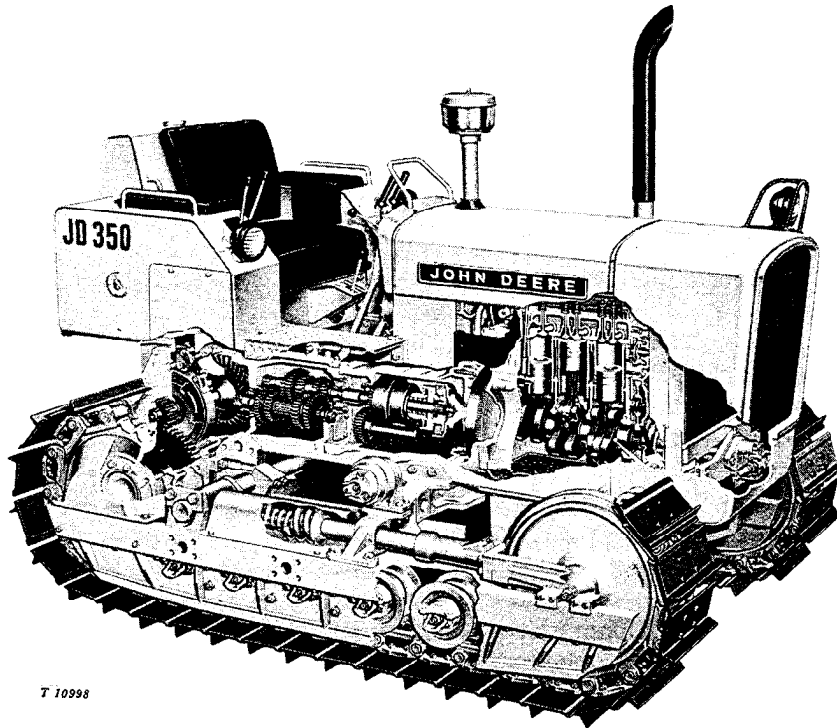
## TO THE JOHN DEERE SERVICEMAN

This service manual contains maintenance instructions for John Deere JD350 Crawler Tractors and Loaders. Included are complete instructions for removal, disassembly, inspection, repair, assembly and installation of the major parts and assemblies of the tractor.

In addition, the manual contains brief descriptions of the more complicated systems of the tractor, and tells how they operate. Dimensions of many new wearing parts are given as an aid in determining when parts replacement is necessary. Tests and adjustments, required to keep the tractor operating efficiently, are explained in detail.

This manual was planned and written for the Service Department; its place is in the shop. Use the manual whenever in doubt about correct maintenance procedures. Use it as a text book for training new Service Department personnel who are unfamiliar with John Deere Tractors.

Daily use of the Service Manual as a guide for any and all service problems will reduce error and costly delay to a minimum and assure you the best in finished service work. In many instances your customer's confidence in your work will be improved when he sees you using the Service Manual. He knows you are following approved maintenance procedures and making proper adjustments. There is no guesswork when you use the manual.



T 10998

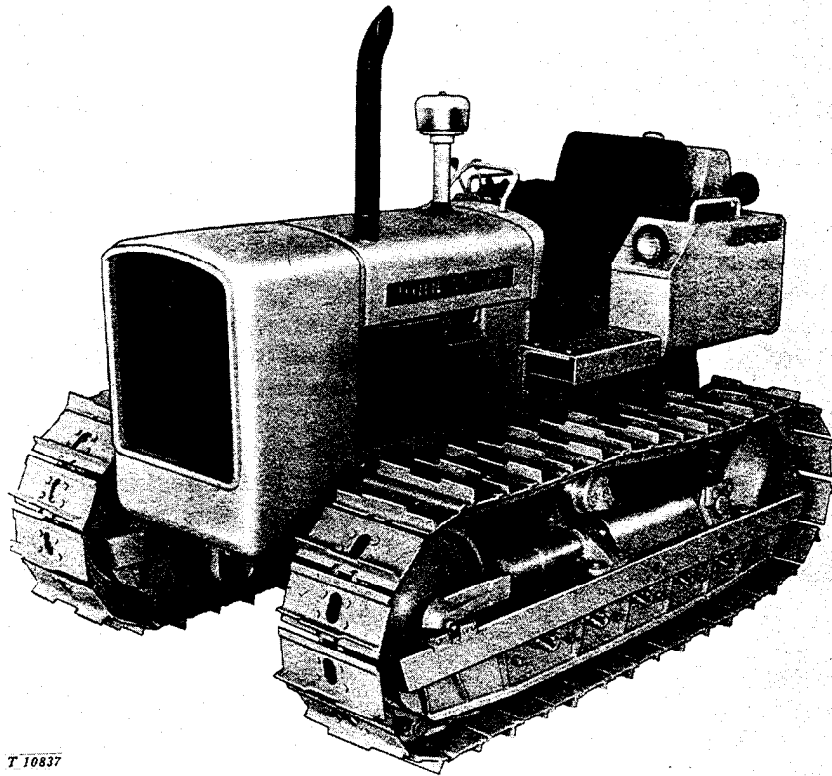
*Right-Hand View of John Deere JD350 Crawler Tractor*



## Section 10

# DESCRIPTION AND SPECIFICATIONS

## Group 5 DESCRIPTION



T 10837

Fig. 10-5-1—Left-Hand View of JD350 Crawler Tractor

The John Deere JD350 is a heavy duty crawler tractor designed to operate with industrial equipment such as loaders and dozers and to perform various pulling and hauling jobs on construction and logging sites.

The JD350 Crawler Tractor is available with gasoline or diesel engine, and with a sliding gear transmission. A direction reverser option is also available.

The main features of the tractor are described in the paragraphs which follow. Full descriptions of major components are given in various sections throughout this manual.

### SERIAL NUMBERS

The engine serial number is stamped on a plate at the lower right side of the engine cylinder block.

The tractor serial number is located on a plate on the front panel of the operator's seat. *NOTE: When ordering tractor parts, record ALL digits on the serial number plate.*

The location of the engine and tractor serial numbers is shown on the next page. A detailed explanation of each serial number is also given.

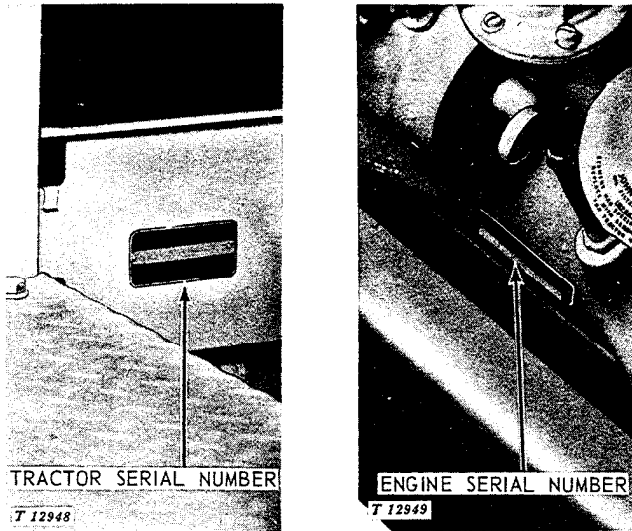
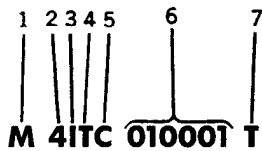


Fig. 10-5-2—Serial Number Locations

*NOTE: Early model tractor and engine serial number plates have an "SN" prefix before the digits listed below.*

**BASIC ENGINE SERIAL NUMBER EXPLANATION**



T 12950

1. The first letter designates the application. . . . . M - Engine
2. This number designates the series. . . . 4 - 3-Cylinder
3. This number designates the fuel type of the engine. . . . . 1 - Gasoline  
3 - Diesel
4. Using factory . . . . . T - Dubuque
5. Application. . . . . C - Crawler  
E - Crawler-Loader  
F - Crawler-Dozer
6. Sequence serial number of six digits. . . . Differs for each engine
7. This letter designates the manufacturer. . . . T - John Deere  
Dubuque Tractor Works

**BASIC TRACTOR SERIAL NUMBER EXPLANATION**



T 13523

1. The first letter designates the application. . . . . T - Tractor
2. This number designates the series . . . . 4 - JD350
3. This letter designates the tractor style . . . . C - Crawler  
E - Crawler-Loader  
F - Crawler-Dozer
4. This number designates the fuel type of engine. . . . . 1 - Gasoline  
3 - Diesel
5. This letter designates the type of transmission . . . . . C - Sliding Gear  
D - Sliding Gear with reverser
6. Sequence serial number of six digits . . . . Differs for each tractor
7. This letter designates the manufacturer. . . . T - John Deere  
Dubuque Tractor Works

**LOADER SERIAL NUMBER**

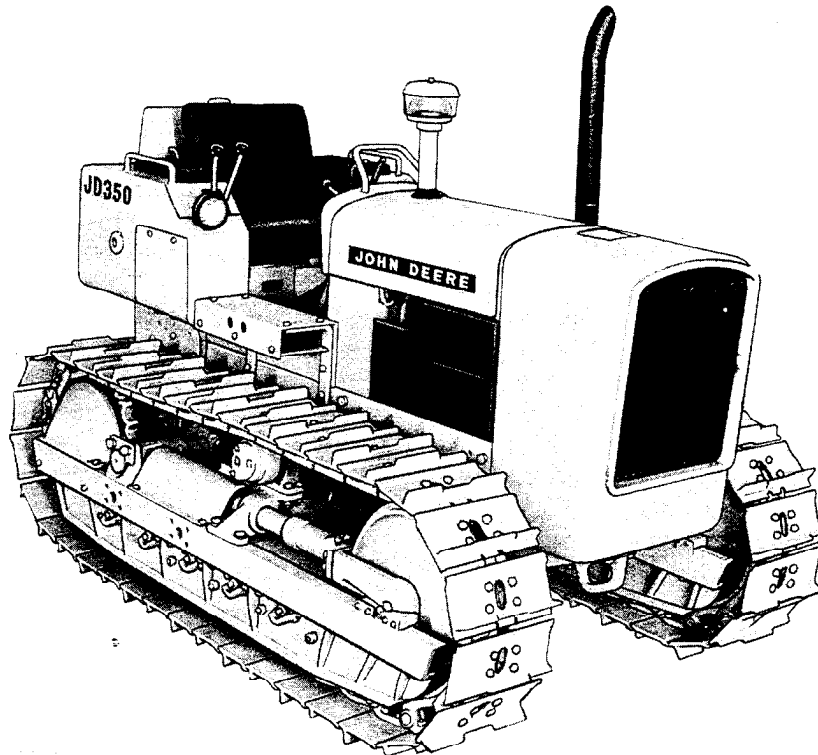
The serial number plate for the loader is located on the loader frame beside the tractor instrument panel.

**WINCH SERIAL NUMBER (Early Models)**

The serial number plate for the winch is located on the top left side of the winch housing.

**MODEL NUMBERS**

The distributor and the carburetor (gasoline), the fuel injection pump (diesel), the alternator, and the main hydraulic pump have identifying model numbers.



T 10024

Fig. 10-5-3—Right-Hand View of JD350 Crawler Tractor

## ENGINES

The vertical, 3-cylinder, valve-in-head, four-stroke cycle engine is available in either gasoline or diesel models. The engines have three in-line cylinders which use individual wet-sleeve liners of the replaceable type.

## LUBRICATION SYSTEM

The engine lubrication system is a force-feed and splash type. The system has a positive displacement, gear-type oil pump, with an externally adjustable pressure regulating valve, and a full-flow oil filter.

## GOVERNOR SYSTEM

Gasoline engine speeds are controlled by a flyweight type governor, driven from the engine crankshaft. Diesel engine speeds are governed by flyweights in the fuel injection pump.

## COOLING SYSTEM

All engines are liquid cooled and are equipped with pressure cooling systems having a centrifugal water pump and a bypass-type thermostat.

## FUEL SYSTEMS

The large-capacity fuel tank on all tractors is located behind the operator's seat.

### GASOLINE

Gasoline fuel systems are fed by a fuel transfer pump driven by the engine camshaft.

A replaceable fuel line filter cleans fuel before it enters the single-throat, updraft carburetor.

### DIESEL

Diesel fuel systems are fed by a fuel transfer pump driven by the engine camshaft.

Diesel fuel is filtered by two stages of replaceable micronic filter elements. Fuel sediment bowls are located under each filter.

Fuel is delivered to 9.5 MM injector nozzles by means of a distributor type fuel injection pump.

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