

# John Deere Service Manual for Model 50, 520, 530 Series Tractors (sm2010)



## Model 50 Series Tractors



JOHN DEERE

### SERVICE MANUAL

Model 50 Series Tractors

SM2010 01NOV52 English



SM2010 01NOV52

LITHO IN U.S.A.  
ENGLISH



**Covers:** 50,520,530

**Type:** Service Manual

**Language:** English

**Pages:** 228

**Format:** PDF

**Features:** Bookmarked, searchable, printable

**Compatibility:** Windows/Mac/Tablet/Mobile

This service manual contains important information for the maintenance, troubleshooting and servicing of the **John Deere Service Manual for Model 50, 520, 530 Series Tractors (sm2010)**

In this manual you will find detailed specifications, illustrations, schematics, diagrams and step-by-step procedures to properly service and diagnose the machine to the manufacturer's standards.

**Contents:**

- General Information
- Specifications
- Serial Number Location
- Engine Specifications
- Engine Diagnostics
- Engine Tests and Adjustments
- Engine Repair
- Power Train
- Transmission
- Axles
- Differential
- PTO
- Hydraulic System
- Electrical System
- Electrical Tests and Diagnostics
- Wiring Diagram / Schematic
- Ignition and Charging
- Steering
- Brakes
- Wheels
- Operator's Platform
- Body Panels
- Disassembly and Assembly
- Diagnostics, Tests and Adjustments
- Troubleshooting
- and much more...

Please note this manual is in **downloadable PDF format only**. If you have any questions about this product or would like to request sample pages, please contact us and reference the product name or SKU.

## Section 10

# Description and Specifications

### Group 5

## DESCRIPTION

The John Deere Model "50" Tractor is a general purpose tractor with sufficient power to pull two 14-inch plow bottoms or the equivalent under normal conditions. The tractor has six forward speeds and one reverse speed.

The features of the tractor are described briefly in the paragraphs which follow. Full descriptions of each of the components or assemblies are contained in the various Sections throughout this manual.

#### Serial Numbers.

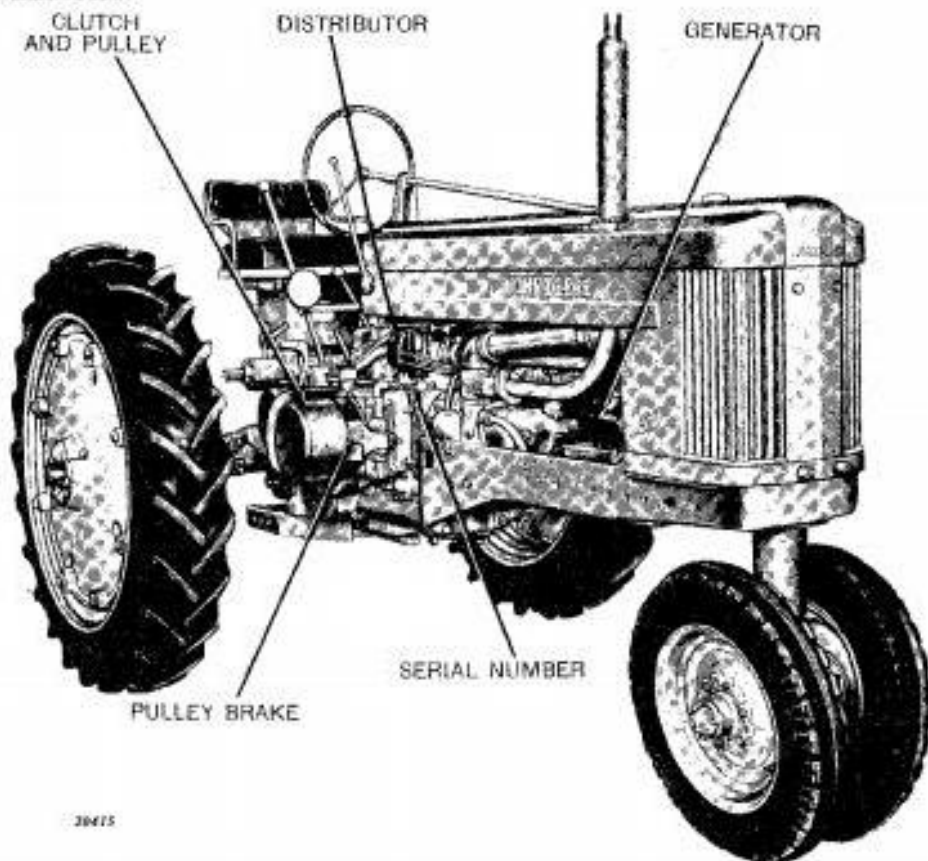
Each tractor bears a serial number located on top of the main case just under the distributor (Figure 10-5-1).

The distributor and the Powr-Trol valve housing also bear serial numbers.

#### Engine.

The tractor is powered by a two-cylinder, cast-in-block, valve-in-head engine with a displacement of 190.4 cubic inches. Rotation is counterclockwise when viewed from the fly-wheel side.

The engine has aluminum alloy, sleeve-type main bearings and replaceable, precision-type connecting rod bearings. All bearings and other parts of the engine are pressure lubricated by a full force feed pressure system with a full flow oil filter. The system includes a replaceable Purolator filter element. The crankcase is ventilated by a pump located on the rear end of the fan shaft. Engine speeds are controlled by a fly-ball type governor driven by the camshaft.



30475

*Figure 10-5-1—John Deere Model "50" Tractor—Pulley Side*



Thank you very much  
for your reading.  
Please click here  
to get more information.