

630
GENERAL PURPOSE
AND STANDARD
TRACTORS GASOLINE
AND ALL-FUEL



JOHN DEERE

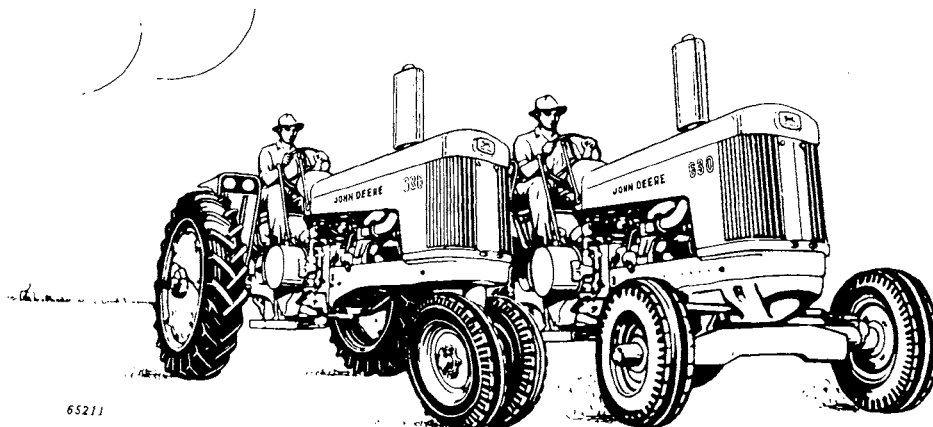
OPERATORS MANUAL
630 GENERAL PURPOSE AND
STANDARD TRACTORS GASOLINE
AND ALL-FUEL

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ENGLISH





To the Purchaser

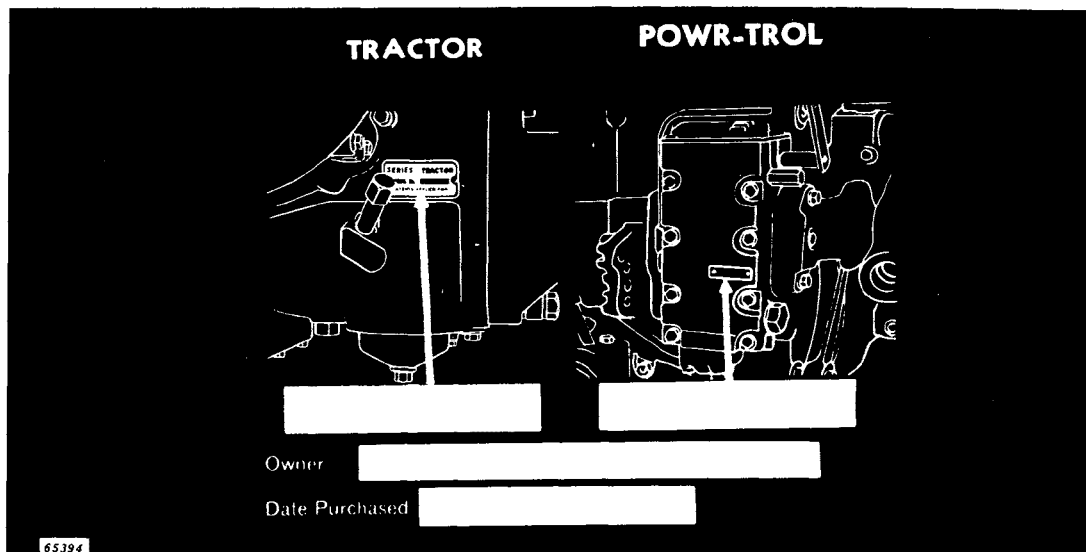
We welcome you to our ever-growing family of John Deere tractor owners. We are confident that the dependable and economical performance of your John Deere tractor will prove that you made a wise choice.

The purpose of this manual is to acquaint you with your new tractor. The manual explains how to operate and service your tractor, and how to maintain its high operating efficiency. Instructions are given clearly with the intention of making these operations as easy as possible.

Keep this manual in a convenient place for quick and easy reference. Use it as a guide whenever questions arise. You have purchased a dependable, sturdy tractor, but only by operating and caring for it properly can you expect to receive the service and long life for which it was designed.

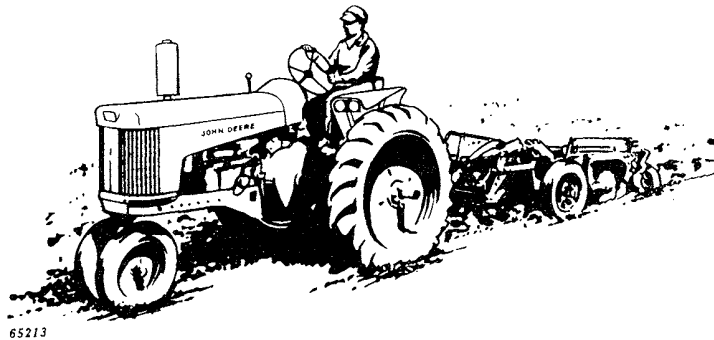
If in the future you need new parts to replace those that may be worn, insist on genuine John Deere parts. They are exact duplicates of the originals, made from the same patterns and of the same high-quality materials.

When in need of parts, give your John Deere dealer the serial number of your tractor or hydraulic (Powr-Trol) system, depending on the parts you need. The illustration below shows you where to find these serial numbers. Obtain them from your tractor—NOW—and insert them in the spaces provided in the illustrations below.

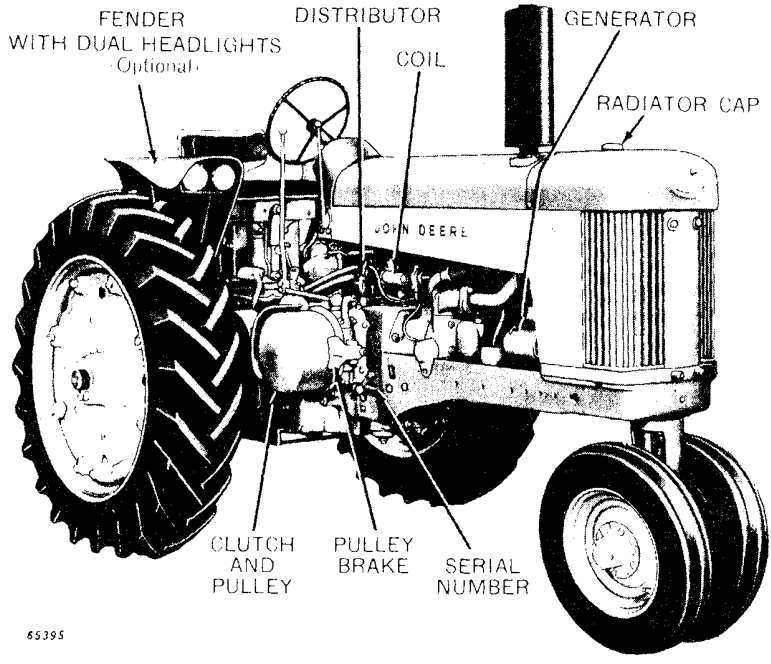


• TABLE OF CONTENTS •

| | <i>Page</i> |
|--|-------------|
| SPECIFICATIONS AND DATA..... | 4 |
| CONTROLS AND INSTRUMENTS..... | 6 |
| OPERATING INSTRUCTIONS..... | 16 |
| SAFETY SUGGESTIONS..... | 54 |
| LUBRICATION AND PERIODIC SERVICES..... | 56 |
| SERVICE THAT WILL KEEP YOUR TRACTOR IN TIP-TOP SHAPE..... | 75 |
| SERVICE REMINDERS..... | 100 |
| TRACTOR DIFFICULTIES..... | 101 |
| STORING THE TRACTOR..... | 109 |
| ATTACHMENTS..... | 110 |
| INDEX..... | 118 |



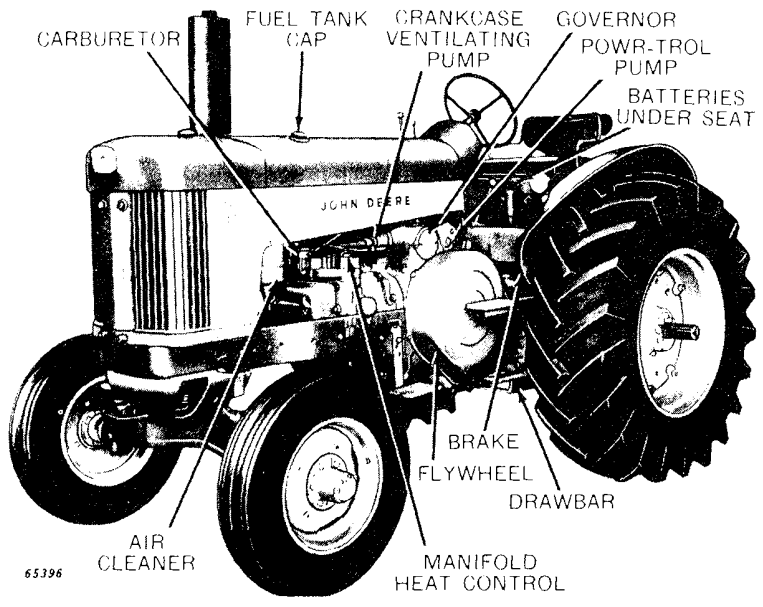
This is Your New John Deere Tractor³



FENDER WITH DUAL HEADLIGHTS (Optional)
 DISTRIBUTOR
 GENERATOR
 COIL
 RADIATOR CAP
 CLUTCH AND PULLEY
 PULLEY BRAKE
 SERIAL NUMBER

65395

John Deere "630" Series General-Purpose Tractor—Pulley Side
 (Serial No. 630000-)



CARBURETOR
 FUEL TANK CAP
 CRANKCASE VENTILATING PUMP
 GOVERNOR
 POWER-TROL PUMP
 BATTERIES UNDER SEAT
 AIR CLEANER
 BRAKE
 FLYWHEEL
 DRAWBAR
 MANIFOLD HEAT CONTROL

65396

John Deere "630" Series Standard Tractor—Flywheel Side
 (Serial No. 630000-)

SPECIFICATIONS

PERFORMANCE:

Capacity for Work:

Four 14-inch plow bottoms or a four bottom bedder under most conditions.

Maximum Belt Horsepower:

*Gasoline..... 48.68
*All-Fuel..... 35.68

Maximum Drawbar Horsepower:

*Gasoline..... 44.16
*All-Fuel..... 32.66

CAPACITIES (U. S. MEASUREMENTS):

| | |
|---------------------------------|--------------|
| Gasoline Tank: | |
| Gasoline Tractor..... | 22-1/4 Gals. |
| All-Fuel Tractor..... | 1 Gal. |
| Fuel Tank (All-Fuel)..... | 20-1/2 Gals. |
| Crankcase..... | 8 Qts. |
| Transmission..... | 6 Gals. |
| Hydraulic Powr-Trol System..... | 11 Qts. |
| Remote Cylinder..... | 1 Qt. |
| Power Shaft Clutch..... | 1 Gal. |
| Cooling System..... | 6-1/2 Gals. |
| First Reduction Gear Cover | 1-1/2 Qts. |
| Power Steering..... | 5 Qts. |

SPEEDS:

| Gear | 13.6-38 Tires | 14-30 Tires |
|---------|---------------|-------------|
| 1 | 1-1/2 mph | 1-1/3 mph |
| 2 | 2-1/2 mph | 2-1/2 mph |
| 3 | 3-1/2 mph | 3-1/3 mph |
| 4 | 4-1/2 mph | 4-1/4 mph |
| 5 | 6-1/2 mph | 6 mph |
| 6 | 11-1/2 mph | 10-1/2 mph |
| Reverse | 3 mph | 2-3/4 mph |

ENGINE:

Type..... Two-cylinder, cast-in-block, valves-in-head.

Engine Speeds:

Load..... 1125 rpm
Fast Idle..... 1260 rpm
Slow Idle..... 600 rpm
Bore and Stroke.... 5-1/2" x 6-3/8"
Displacement..... 302.9 cubic inches

Compression Ratio:

Gasoline..... 6.5 to 1
All-Fuel..... 4.78 to 1

LUBRICATION SYSTEM:

Type..... Force-feed pressure system with full flow oil filter.

*Maximum h.p. corrected to 60° F. and 29.92 in. Hg. (Nebraska Tests Nos. 598 and 604)

FUEL SYSTEM:

Type..... Gravity feed
Carburetor..... Natural-draft duplex type
Air Cleaner..... Oil-wash type

COOLING SYSTEM:

Type.... Pressure system—centrifugal pump with engine temperature controlled by heavy-duty thermostat.

IGNITION SYSTEM:

Type..... Battery-Distributor
Distributor Point Gap..... .022"
Spark Plugs:
Size..... 18 mm.
Spark Plug Gap..... .030"

ELECTRICAL SYSTEM:

Battery Voltage..... 12 Volts
Generator Regulation... Voltage Regulator
Battery..... Group I

CLUTCH:

Type..... Hand-operated, four 10-inch dry disks.

BELT PULLEY:

Diameter..... 12-13/16"
Width..... 7-3/8"
Rpm (Load)..... 1125
Belt Speed (fpm)..... 3775

TRANSMISSION:

Type..... Six speeds forward and one in reverse.
Gears..... Selective-type, straight spur-cut gears, forged and heat-treated.
Bearings... Shafts operate on three roller bearings, four tapered roller bearings, and five ball bearings.

REAR AXLES:

Diameter..... 3-1/8"
Bearings..... Four tapered roller bearings.
Types Available... Regular and long.

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