

FOR GREATER EARNING POWER ON THE FARM



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John Deere

Catalog

1932

Full Line Catalog

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GREATER EARNING POWER

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1932

MANUAL PREVIEW

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JOHN DEERE
TRACTOR BINDER

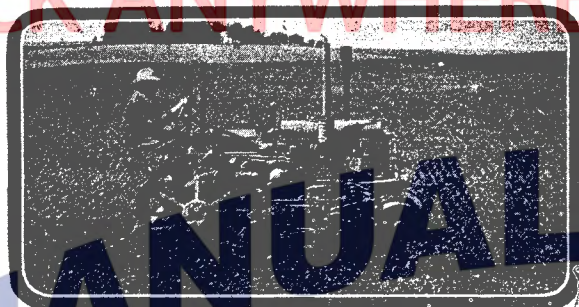
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JOHN DEERE QUALITY IMPLEMENTS

for ALL FARM JOBS



For Cotton, Corn and Potato Growers

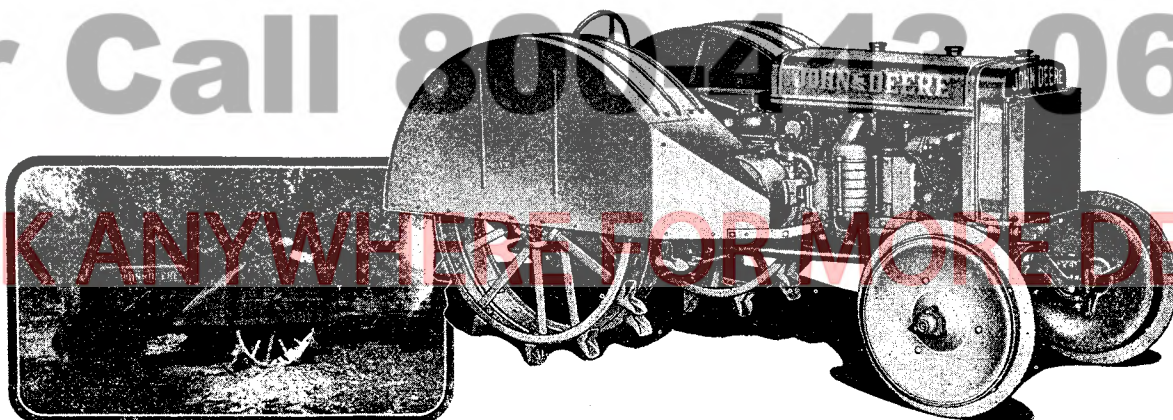
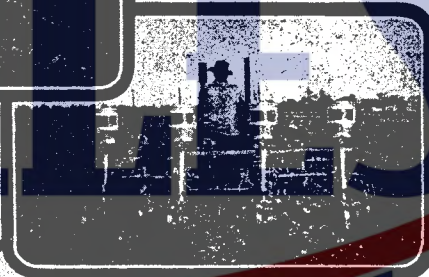
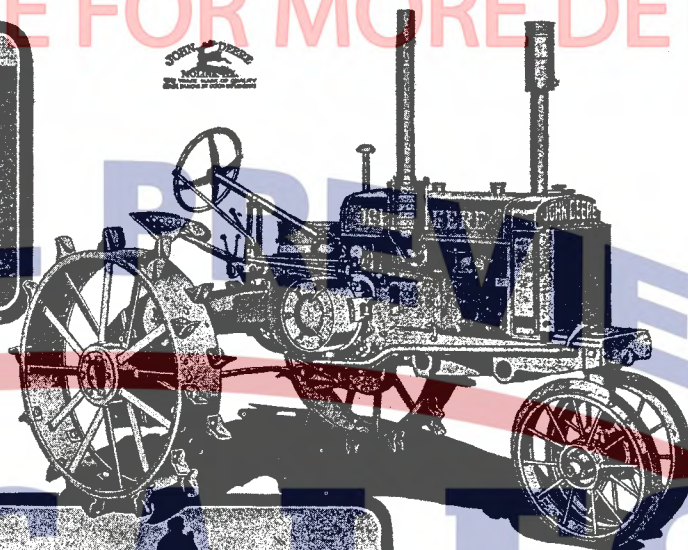
The John Deere General Purpose Wide-Tread with its special equipment is ideal for low-cost production of cotton, corn or potatoes. Cotton equipment includes two- and four-row planters and cultivators, bedders and listers. Special corn and potato equipment includes two-row cultivator.

This General Purpose Wide-Tread Tractor can be furnished with types of wheels which fit it for a great variety of row widths as shown in the illustrations at the right.

For Orchard and Field Work

The John Deere Orchard and Field Tractor, shown below, is built to work close to trees and under limbs without injury to the trees. It can be used as a field tractor where combination orchard and field farming is practiced.

These John Deere Two-Cylinder Tractors are more completely illustrated and described on the pages that follow.



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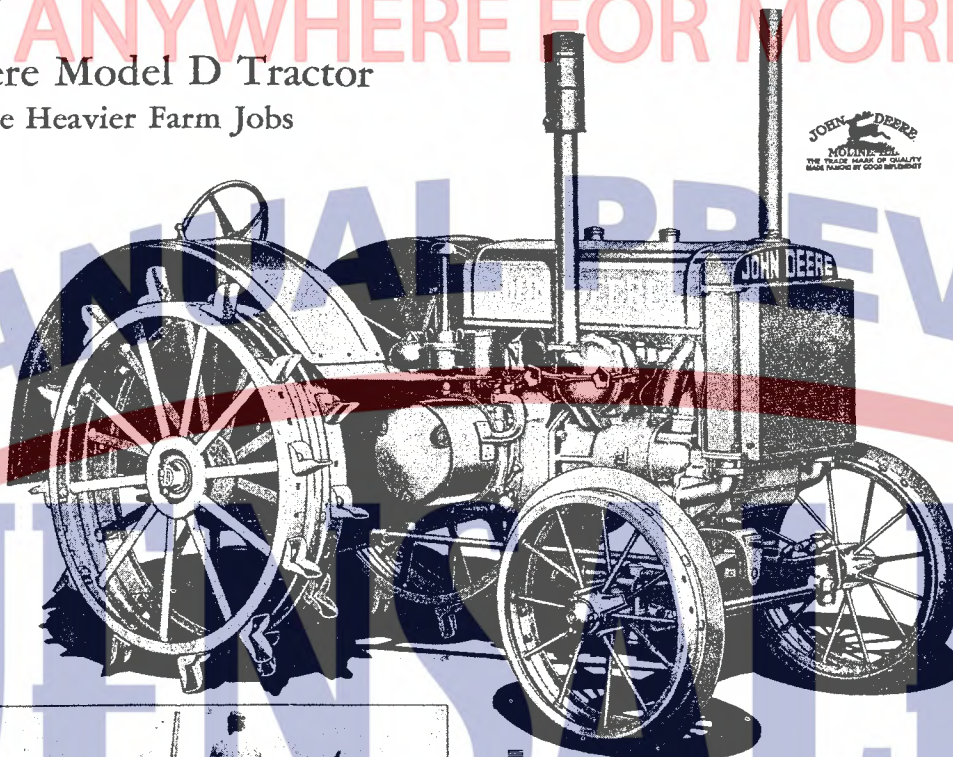
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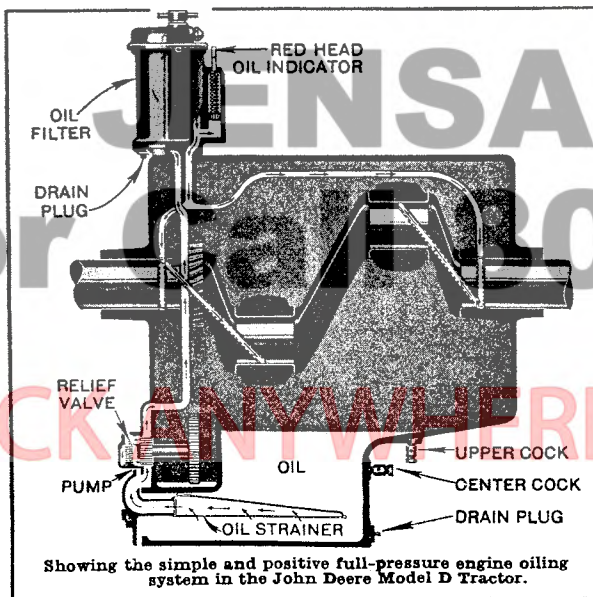
JOHN DEERE QUALITY FARM EQUIPMENT



John Deere Model D Tractor For the Heavier Farm Jobs



Doing a real job of disk tilling with a John Deere outfit.



Showing the simple and positive full-pressure engine oiling system in the John Deere Model D Tractor.

Great Power Combined with Light Weight

The ability to do much more than is normally expected of a tractor of its size is an outstanding feature of the John Deere Model D. Think of a tractor weighing no more than three good draft horses that will pull three 14-inch stubble bottoms under difficult conditions, and four bottoms under many conditions—a tractor that will operate a 28-inch separator with all attachments, and other drawbar and belt machinery in proportion.

And there's always ample reserve power to meet emergencies—to pull the hills—to get through bad spots in the field—to lessen the possibility of clogging an overloaded separator or ensilage cutter.

The greater power at the drawbar is due primarily to these five important features of design and construction:

- (1) Transmission of power from engine to drawbar in a straight line through straight spur gears carried on shaftings mounted on roller and ball bearings which are held in permanent alignment in a rigid one-piece case—the power is not carried around corners.
- (2) Final drive through two hardened-steel roller chains completely enclosed and operating in a bath of oil.
- (3) Fewer friction-making parts in the transmission line to rob the drawbar of power.
- (4) The elimination of surplus weight which makes a greater percentage of the engine's power available at the drawbar for pulling heavy loads.
- (5) All working parts protected from the dust and dirt and automatically oiled.

(Continued on next page)

FOR GREATER EARNING POWER ON THE FARM



(Continued from preceding page)

On the belt, the maximum power of the engine is transmitted to the pulley, because the pulley is mounted directly on the end of the crankshaft. There is no loss of power as a result of driving the pulley through gears.

Full-Pressure Force-Feed Engine Lubrication

The engine in the John Deere Model D has a full-pressure, force-feed lubrication system. By means of a positive gear-driven pump, oil is forced under pressure to the main bearings from where it is forced through the drilled crankshaft to the connecting rod bearings, and through the drilled connecting rods to the piston pin bearings, pistons and cylinder walls; thus preventing metal to metal contact, consequently, wear is reduced to the minimum. (See illustration on page 10.)

A direct oil line to the governor housing delivers oil to all governor parts.

Oil thrown from the connecting rod bearings effectively lubricates pistons, and all other internal parts of the engine.

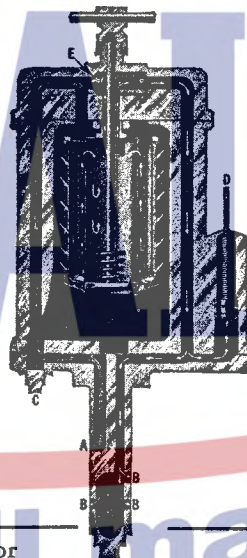
Working Parts Fully Enclosed

Here is another important feature that you will be sure to appreciate. Besides providing rigid support for all bearings, shafts and gears, the sturdy one-piece frame, with two covers, completely encloses the entire working mechanism. It fully protects all parts from dust, sand or other foreign matter. (See illustration below.)

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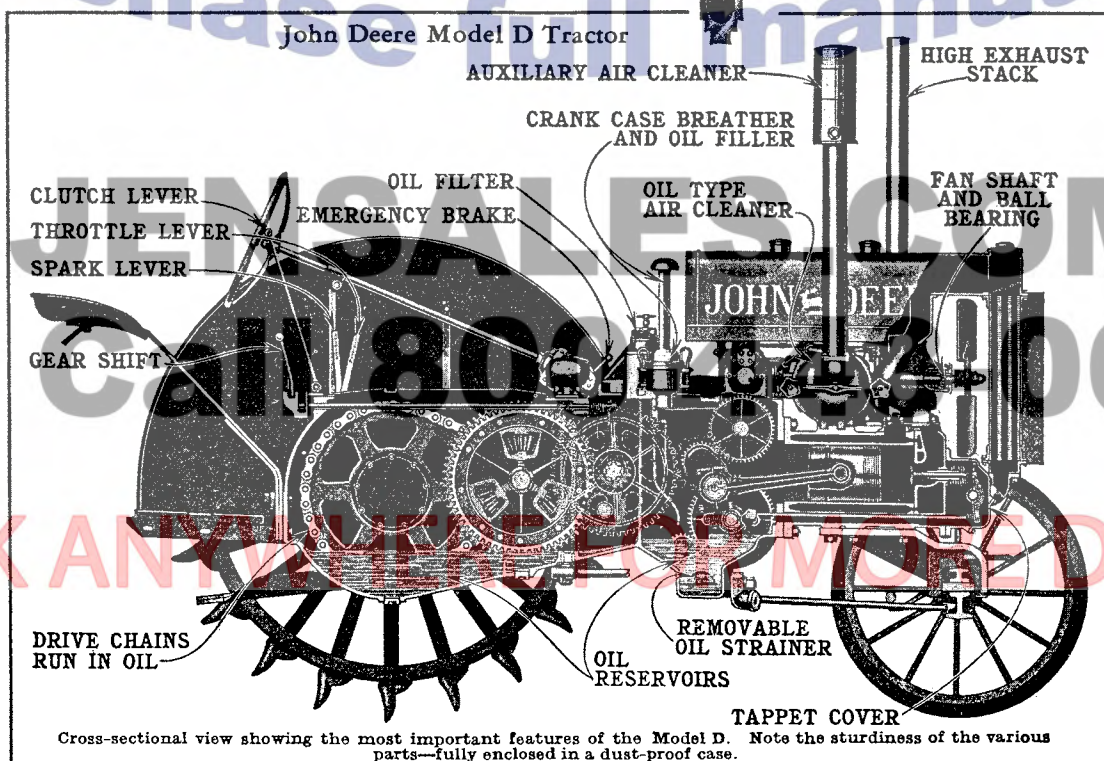
Pulling the Two-Row Picker on a large corn belt farm.



Cross-section of oil filter to show passage of oil through filter. Oil indicator is shown at left of illustration.

KEY—

- A—Intake of used oil
- B—Exits of clean oil
- C—Drain plug for impurities
- D—Oil pressure indicator
- E—By-pass





JOHN DEERE QUALITY FARM EQUIPMENT



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Engine Gives the Power You Want Plus Simplicity and Economy

In the John Deere Tractor, efficiency and simplicity begin with the big, strong, heavy-duty two-cylinder engine. This engine is the primary reason why the John Deere Tractor gives more economical power, more efficient power and still costs you less money.

This simple, heavy-duty engine, meets all of the requirements of balance, flexibility and smooth operation.

The illustration at the left shows the crankshaft, connecting rod and piston assembly. Note the sturdiness of every part—wide bearing surfaces and short distance between bearings.

The reliable fly-ball type of governor used in the John Deere responds instantly to any variation in the load, increasing or decreasing the volume of fuel used and power developed according to the load. An even flow of power is maintained under all conditions.

Thermo-Siphon Cooling System— Simple and Effective

The heavy-duty engine in the John Deere is water cooled by a thermo-siphon system of special design. This provides a most effective temperature control and is very simple. No pumps, belts and many other parts requiring adjustment are needed.

Because it is gear driven, the fan is positive in action, assuring that the water in the radiator will be properly cooled under all conditions. It avoids uncertainty—delays and expense—there are no belts.

Only Dust-Free Air Enters Cylinders— Air Double-Cleaned

The air-cleaning device on a tractor is of utmost importance.

To prevent grit or dust from entering the John Deere engine, even under most severe operating conditions, the air is double-cleaned. (See cross-sectional view of cleaner at the left.) Read about its features described in connection with illustration.

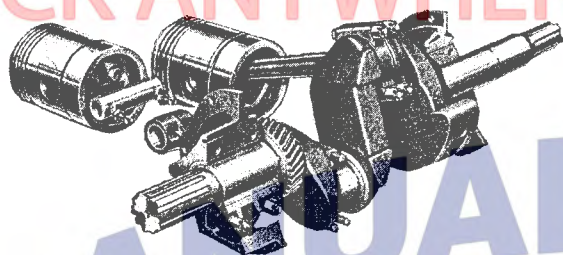
Roller and Ball Bearings

Good bearings reduce friction. The John Deere is fully equipped with roller and ball bearings, recognized means of saving power and reducing wear. For example, the rear axle and front wheels are mounted on tapered roller bearings. All of the shafts in the transmission case are mounted on either roller bearings or ball bearings. The belt pulley runs on a roller bearing. The governor shaft and fan shaft operate on ball bearings.

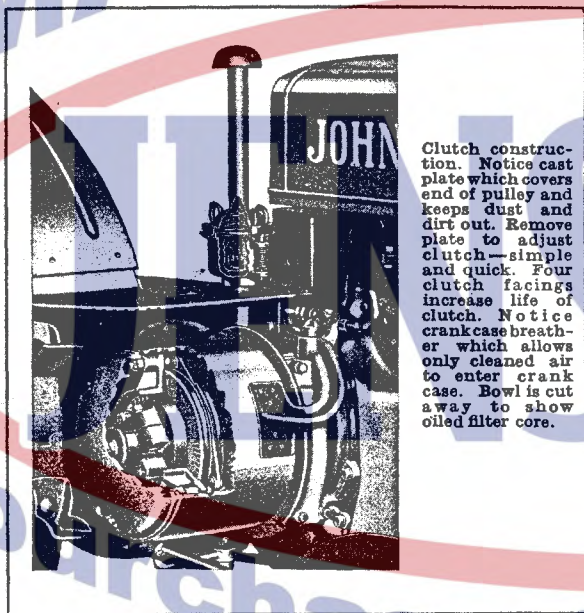
Simple Clutch—Easy to Adjust

It takes only a few minutes to adjust the positive dry plate clutch on the John Deere. On the outside of the adjusting disk are three nuts by

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Crankshaft, bearings, connecting rods and pistons. Note the compact arrangement of main bearings; short distance between bearings; crankshaft is compact and rugged.



Clutch construction. Notice cast plate which covers end of pulley and keeps dust and dirt out. Remove plate to adjust clutch—simple and quick. Four clutch facings increase life of clutch. Notice crankcase breather which allows only cleaned air to enter crank case. Bowl is cut away to show oiled filter core.



Left—Air-cleaning unit as it looks on tractor. Right—Cross-sectional view to show travel of air from auxiliary cleaner down through pipe into the oil filter core which completes the air cleaning job. Air coming from ventilated crank case enters at top of core bowl and is cleaned once by crank case breather and again by the main air cleaner. Below—The oil soaked core that does the final job of cleaning.

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FOR GREATER EARNING POWER ON THE FARM



(Continued from preceding page)

which clutch can be quickly and accurately adjusted—simple as can be.

Easy to Get at Working Parts

While all of the working parts of the John Deere Tractor are completely enclosed, you have quick, easy access for inspection and adjustment of every part.

The clutch, brake, drive chains, ball and roller bearings of the John Deere can all be adjusted from outside the tractor. The transmission, the crank and the tappet lever cases are each provided with a cover plate. By removing plates these parts are easily inspected or adjusted.

Burns Low-Cost Fuel

Ability to burn low-cost fuel successfully is perhaps the most valuable feature in the design of the John Deere Model D Tractor. The engineers in designing this tractor for burning low-grade fuel knew the day would come when fuel costs would be a most important factor in tractor operation. That day is here.

The John Deere burns fuel that costs about half that of gasoline and much less than kerosene. Owners say they can save practically enough in fuel costs, during the life of the John Deere Tractor, to buy another John Deere. Such a saving is surely worthy of most careful consideration.

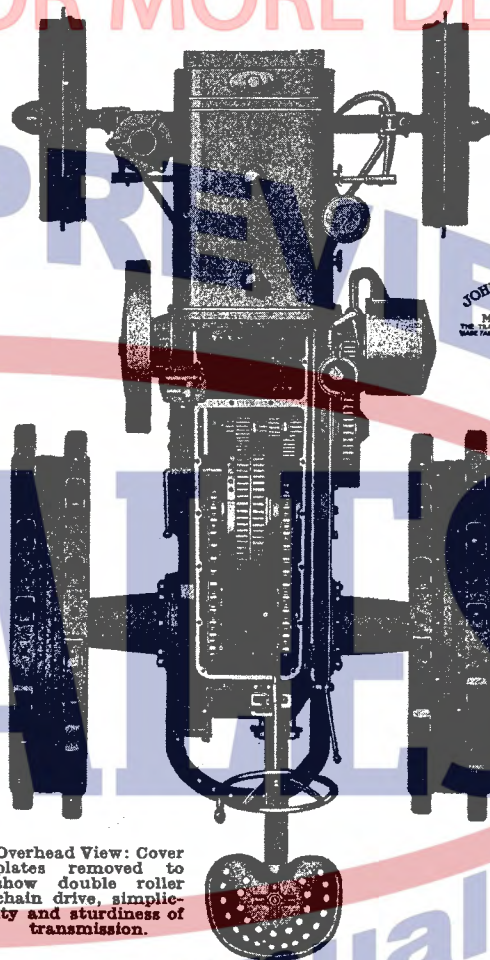
The John Deere has all the fundamental principles in its design to burn low-cost fuel successfully: large, low-speed engine; pre-heating of the fuel; crank case ventilation; efficient air cleaning system; means for maintaining proper engine heat.

Power Take-Off A Third Form of Power

The power take-off provides a third means of taking power from the tractor. This is particularly advantageous in operating machines where it is difficult for a traction wheel to secure traction. It provides the most efficient method of using the power of the tractor to operate machines ordinarily utilizing a traction wheel or separate engine for their operation, such as grain binders, corn pickers, etc.

Other Modern Features that Make This an Efficient, Economical and Practical Farm Tractor

To prolong its life, increase its efficiency, reduce operating costs and to promote ease of operation, the John Deere Tractor has the following modern features: ventilated crank case, crank case breather which keeps dust and dirt out of oil; radiator curtain and guard by which proper engine temperature can be maintained, and the radiator protected; muffler and spark arrester; automotive steering control; ideal seat location for clear vision ahead; high exhaust pipe and tightly fitted fenders.



Overhead View: Cover plates removed to show double roller chain drive, simplicity and sturdiness of transmission.

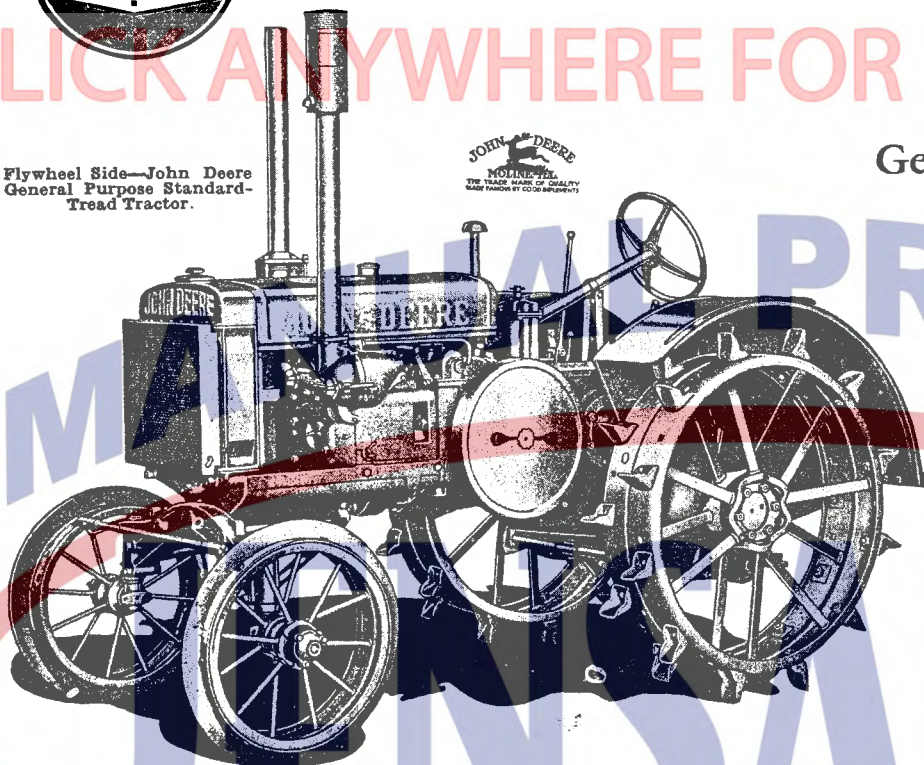
Specifications

Capacity—Three or four 14-inch Stubble Bottoms or a 28-inch Threshing Machine.
Speed—High, 3-1/4; Low, 2-1/2; Reverse, 2 M. P. H.
Engine—6-3/4-inch bore, 7-inch stroke, 900 R. P. M.
Crankshaft—3-inch diameter drop-forged long bearings.
Connecting Rod—Drop forged, four-bolt type, 3-1/2-inch crank pins.
Lubrication—Full-force-feed, geared pump.
Carburetor—1-1/2-inch, with air choker.
Air Cleaner—Oil-filter type with vertical auxiliary cleaner on high air stack.
Ignition—High tension magneto with enclosed impulse starter.
Cooling—Tubular radiator, thermo-siphon.
Air-Fan—Gear driven; no belts.
Governor—Enclosed fly-ball type.
Clutch—Four 10-inch dry disks, locking in and out.
Belt Pulley—13-1/4-inch diameter x 8-1/2-inch face, 900 R. P. M.
Belt Speed—Feet per minute, 3122.
Transmission—Spur gear, selective type.
Gears—Cut teeth, heat-treated and hardened.
Power Shaft Speed—540 R. P. M.
Final Drive—Two roller chains enclosed.
Drive Axle—3-inch diameter high-carbon steel, heat-treated.
Drive Wheels—46 x 12-inch, forged steel rims.
Front Wheels—28 x 6-inch, dust proof.
Bearings—
Main—Removable bronze back, babbitt-lined.
Connecting Rod—Removable bronze back, babbitt-lined.
Front and Rear Wheels—Taper Roller (8).
Transmission and Belt Pulley—Roller (3), Ball (2).
Fan and Governor Shaft—Ball (4).
Fuel—Distillate or Kerosene—Tank Capacity—23-1/2 Gallons.
Gasoline Tank Capacity—2-3/4 Gallons.
Water Capacity—10 Gallons.
Wheel Base—69-1/2 inches.
Turning Radius—13-1/2 feet.
Length, without Fenders and Platform—107 inches.
Length, with Fenders and Platform—117 inches.
Width—65 inches.
Height—57 inches.
Drawbar Height—Adjustable vertical, 8-1/4 inches; horizontal, 34 inches.
Shipping Weight—4822 pounds with 5" lugs and 2-1/2" guide bands, no fuel or water.



JOHN DEERE QUALITY FARM EQUIPMENT

Flywheel Side—John Deere General Purpose Standard-Tread Tractor.



John Deere General Purpose Tractor

In the John Deere General Purpose Tractor you get the qualities that combine to make farming with mechanical power not only a reality, but also a source of greater profit and real satisfaction.

Not only is the John Deere General Purpose Tractor designed for efficient, big-capacity operation when equipped with planting and cultivating attachments, but its standard design makes it ideally fitted for all the other farm jobs within its power. For example, in pulling two bottoms in plowing, it operates with two wheels in the furrow and a straight center hitch for both plow and tractor.

The John Deere General Purpose has four sources of power—drawbar, belt, power take-off and *power lift*.

The power lift does away with lifting levers on the planter, cultivator and sweep rake. Just a touch of the foot and this equipment is raised or lowered. Saves hard work, saves time, increases capacity.

Field-Proved Design

In the construction of the John Deere General Purpose Tractor are embodied the principles that have made the larger John Deere Model D Tractor famous for satisfactory performance on the bigger jobs—it has been thoroughly proved.

In order to meet the requirements of a general purpose tractor, clearance, weight and balance have been carefully worked out to insure satisfactory operation in every agricultural section where power farming is practical.

Simple Two-Cylinder Engine Supplies Smooth, Economical Power—Burns Low-Cost Fuel

A simple, sturdy, heavy-duty engine supplies the John Deere Tractor with its economical power.

Its two-cylinder engine design not only gives you simplicity—fewer bearings, fewer points of friction, fewer adjustments to make—but it burns low grade fuel with real economy.

The fuel is heated before it enters the cylinders. Because of the short distance the fuel mixture travels in reaching the cylinders, condensation is prevented, thus low grade fuel is burned efficiently.



Plants corn uniformly and accurately—30 to 40 acres a day. Planter forms unit with tractor. Power lift raises and lowers runners—no levers to operate.



Cultivates from 25 to 40 acres a day—no levers to operate—no stopping at ends—easy to guide—easy to adjust—does good work.



Power-driven mower will cut from 25 to 35 acres a day—durable, easy to operate.

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Full Force Feed Pressure Lubrication System

Oil is forced under pressure to the main bearings and connecting rod bearings, through the connecting rods to the piston pins and through an additional oil pipe to the governor housing for the lubrication of all governor parts, thus preventing metal-to-metal contact. Cross-section of the tractor below and cross-section of the crankshaft to the right show the efficient oiling system.

The engine is water-cooled by the simple thermo-siphon principle, using a tubular radiator. This provides heat control in the simplest, most effective way. This system does away with fan belt and water pump.

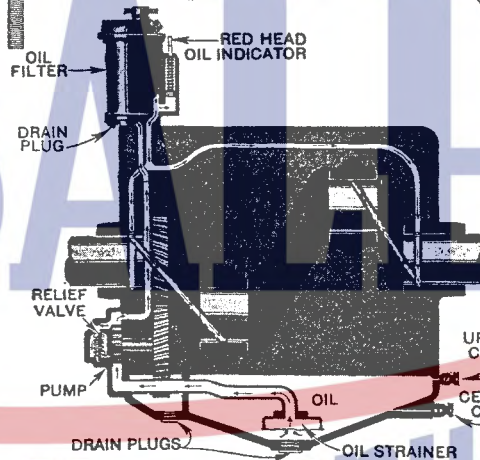
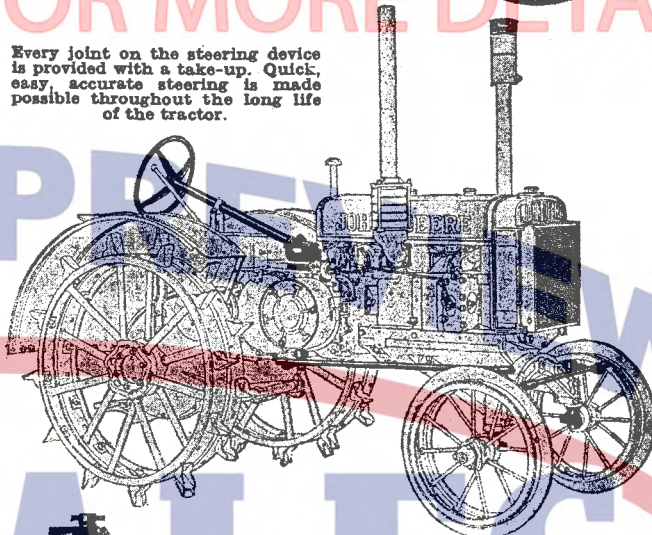
Air Double-Cleaned

The air-cleaner on the John Deere General Purpose is the same as that used on the Model D and illustrated on page 11. The air is double-cleaned before it reaches the engine.

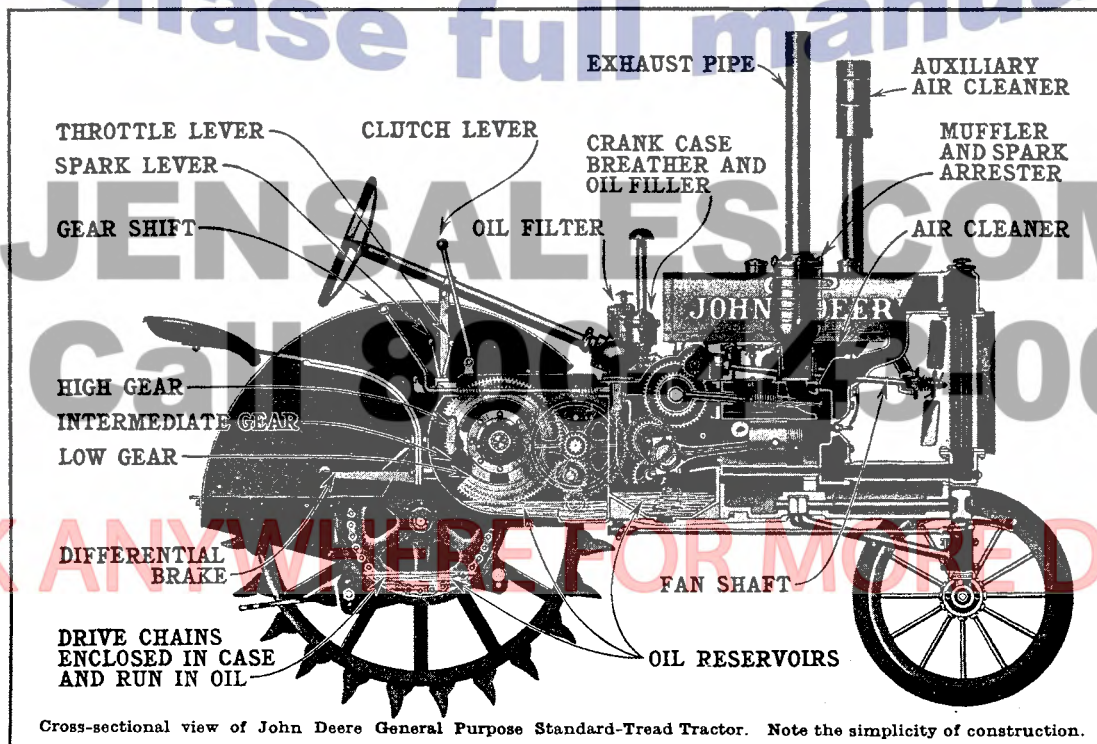
Three Forward Speeds, One Reverse

Three forward speeds, 2 $\frac{1}{2}$, 3 and 4 miles per hour are provided to meet every operating condition. The volume of work can be increased as conditions permit.

Every joint on the steering device is provided with a take-up. Quick, easy, accurate steering is made possible throughout the long life of the tractor.



The full-pressure oiling system which thoroughly lubricates all parts of the engine. The gear-type pump forces oil under pressure to main bearings from where it is forced through the drilled crankshaft to the connecting rod bearings and through the drilled connecting rods to the piston pin bearings. (Note arrows in illustration.) All other parts are effectively lubricated by oil thrown from the connecting rod bearings.



Cross-sectional view of John Deere General Purpose Standard-Tread Tractor. Note the simplicity of construction.

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FOR GREATER EARNING POWER ON THE FARM



Three-Row Planter for John Deere General Purpose Tractor

One man with a John Deere General Purpose Tractor equipped with this three-row planting attachment can plant from 30 to 40 acres a day and do it easier than ever before. This means not only a big saving in time, but it makes it possible to get the corn in the ground under the most favorable soil and weather conditions.

A One-Man Outfit

Driving the tractor and moving the wire—that's about all there is to the operation of this outfit. When you get to the end of the row the wire is automatically released by a special doffer button. Step on the power lift pedal and up comes the furrow openers and marker—there are no levers to operate, no heavy lifting. Step on the same pedal after turning and the runners are lowered to working position again.

The planter attaches to form a single unit with tractor. The outfit is readily backed up and turns in a short space. What's more, there can be no side whip to throw the planter out of check.

Flexibility Gives Even Depth of Planting

Each runner works independently of the others. Regardless of the ground conditions, all the rows will be planted at uniform depth. The pressure gauge wheel back of each runner is adjustable for the desired depth of planting.

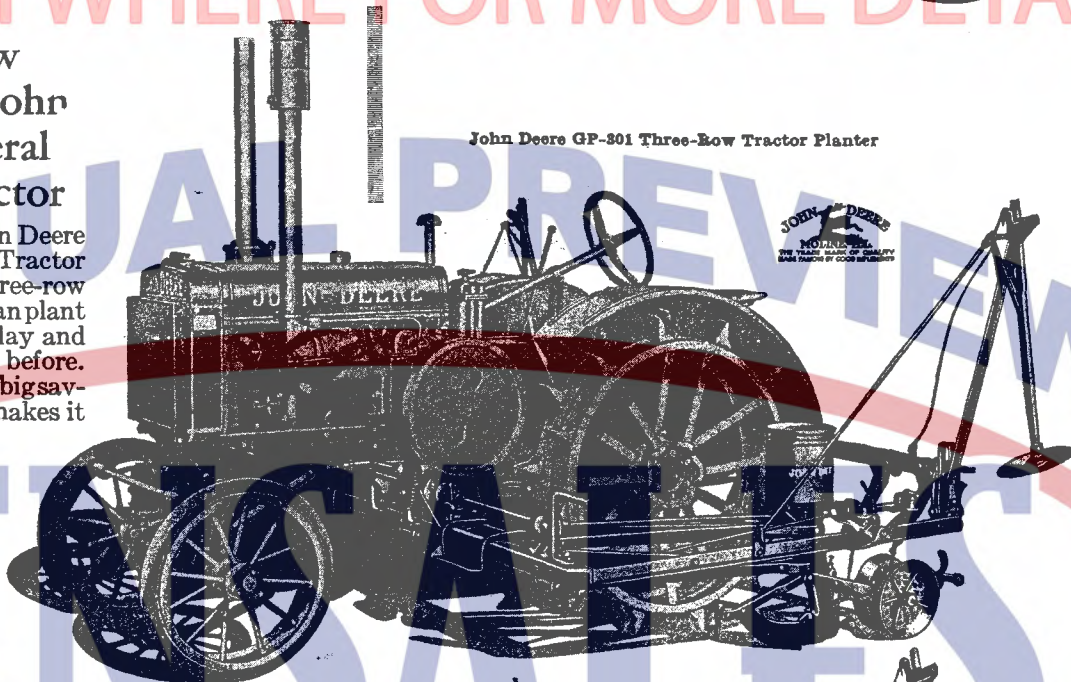
This three-row power planter has the same natural-drop type of seed plate used in the John Deere No. 999 Horse-Drawn Planter, which is famous the world over for its remarkable accuracy. The planter can be quickly changed for drilling, when desired.

Safety Fertilizer Attachment

The John Deere Safety Fertilizer Attachment makes it possible for you to use highly concentrated fertilizer without danger of injuring the seed.

Fertilizer is strung out on both sides of the hill in strips 12 to 18 inches long. It is deposited close enough to the seed to do the most good, yet there is always a layer of soil between to keep the fertilizer from injuring the seed.

John Deere GP-301 Three-Row Tractor Planter



John Deere GP-325 Tractor Corn Drill equipped with Fertilizer Attachment.



From 30 to 40 acres of corn and cowpeas or soy beans can be planted and fertilizer distributed in a day with this fast-working, efficient equipment.