

John Deere

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MODEL:

**1010 Diesel
Row-Crop**

**OPERATOR'S
MANUAL**



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OPERATOR'S MANUAL
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JOHN DEERE

1010

SINGLE
ROW-CROP

DIESEL TRACTOR



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specifications

PERFORMANCE

Drawbar horsepower Not tested at Nebraska
PTO horsepower Not tested at Nebraska

CAPACITIES (U.S. Standard Measures)

Fuel tank, gals. 12
Cooling system, gals. 3
Air cleaner cup To mark
Engine lubrication, qts. (including filter) 5
Transmission, qts. (dual speed PTO) 9
(540 rpm PTO) 10
Final drive cases (each), pts. 3-1/2
Belt pulley, pts. 1/2
Hydraulic system:
Single, qts. 4-1/2
Dual, qts. 5-1/2

ENGINE

Number of cylinders 4
Bore and stroke, inches 3-5/8 x 3-1/2
Displacement, cubic inches 144.48
Maximum torque, ft.-lbs. at 1300 rpm 85
N.A.C.C. or A.M.A. horsepower rated for tax
purposes 21.03
Tappet clearance (engine cold)
Intake valves012
Exhaust valves018
Compression ratio 19 to 1

ENGINE SPEEDS

Full load SAE standard PTO engine speed . . . 1900 rpm
Fast-idle 2100 rpm
Slow-idle 750 rpm
Fast-idle in overtravel 2650 rpm
Rated load in overtravel 2500 rpm

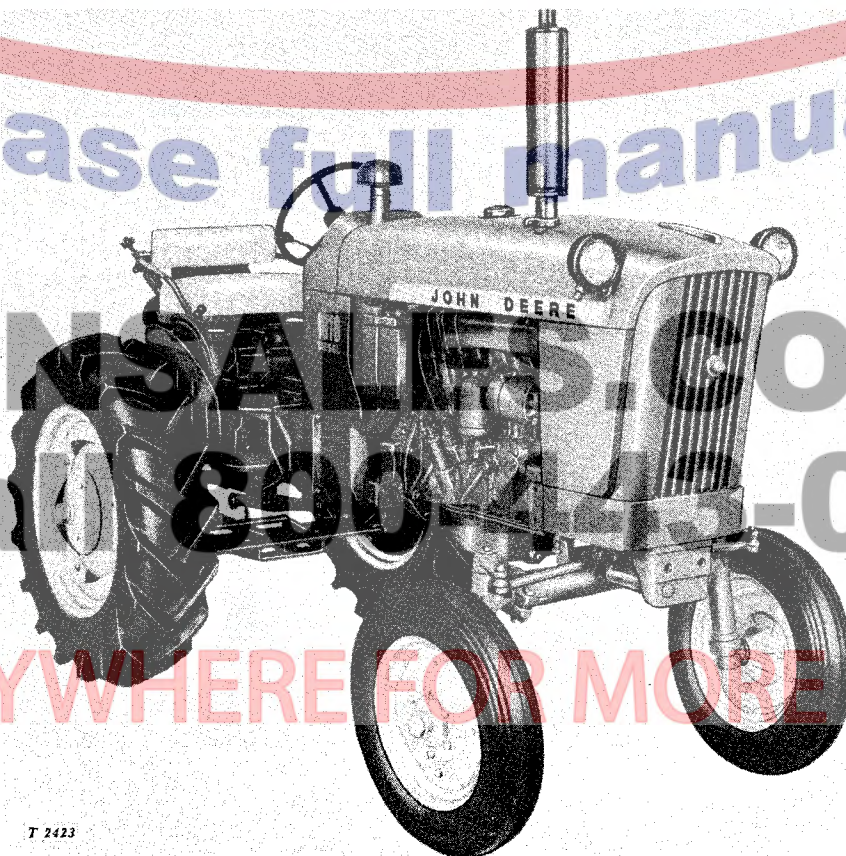
TRANSMISSION SPEEDS

MPH based on 10-24-inch tire rolling radius and zero slip

Gear	1500 rpm	1900 rpm	2500 rpm
1st	1.37	1.74	2.29
2nd	2.70	3.42	4.50
3rd	3.60	4.56	6.00
4th	4.68	5.93	7.80
5th	8.84	11.20	14.73
R	2.00	2.54	3.34

FINAL DRIVE

Induction hardened spur-gear type. Gears mounted on
anti-friction type bearings.
Gear reduction ratio in first gear (Engine to
axle) 129 to 1
Gear reduction ratio in high gear (Engine to
axle) 20 to 1



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Right side view of John Deere 1010 Single
Row-Crop Diesel Tractor

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controls

and instruments

Before attempting to operate your new tractor, become familiar with the location and purpose of its controls and instruments. Study the next few pages carefully, regardless of your previous tractor experience.

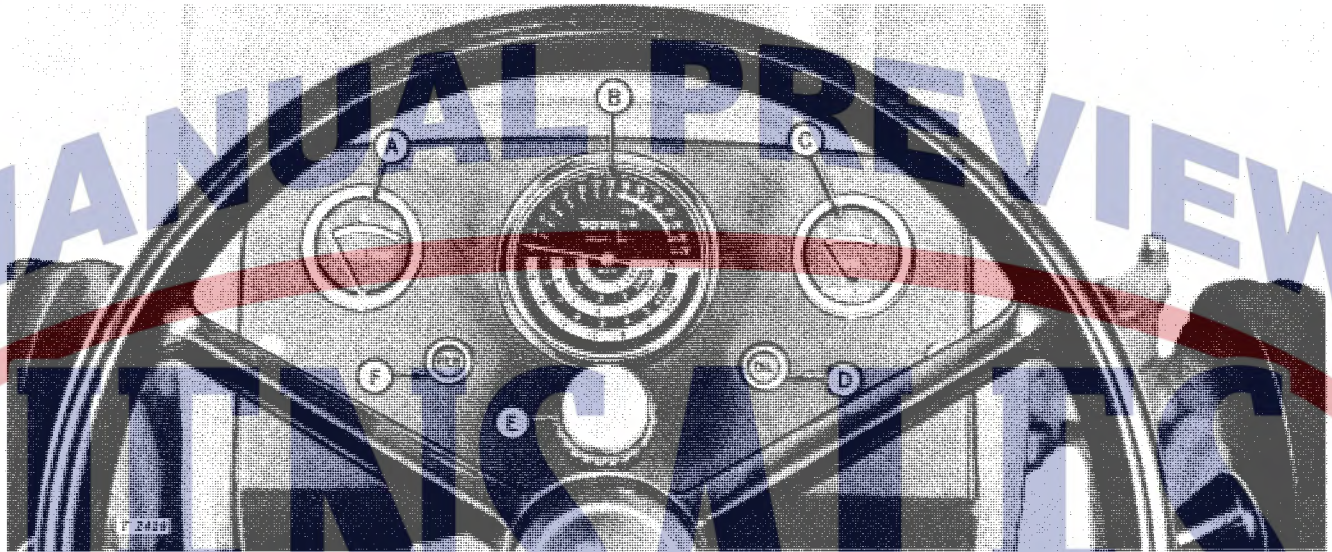
Controls



- A - Hand throttle knob
- B - Hand throttle
- C - Shift lever
- D - Hydraulic system control levers
- E - Brake pedals
- F - Powershaft control lever
- G - Clutch pedal
- H - Steering wheel
- I - Brake locks
- J - Fuel shut-off control
- K - Key starter switch
- L - Fuse
- M - Light switch
- N - Cigarette lighter

Instrument panel

All instruments are conveniently grouped on the instrument panel where they may be easily observed by the operator.



A - Water temperature gauge
B - Speed-hour meter
C - Fuel gauge

D - Oil pressure tel-light
E - Dash lamp
F - Generator tel-light

A. Water temperature gauge

The water temperature gauge indicates temperature of coolant in the cooling system. After the engine has had time to warm up, the indicator should remain in the "N" (normal) range.

B. Speed-hour meter

The speed-hour meter indicates the following:

- (1) Ground travel speed in all gears-bottom half of dial.
- (2) Engine speed (rpm) - top half of dial.
- (3) Accumulated hours of service - center portion of upper dial.

C. Fuel gauge

The fuel gauge, located in the upper right-hand corner of the instrument panel, registers the quantity of gasoline in the tank. It will

operate only when the key switch is turned on. Turn switch off when filling tank.

D. Oil pressure tel-light

A bright red glow indicates the engine oil pressure is not satisfactory. The oil indicator does not show quantity of oil in crankcase.

E. Dash lamp

Your tractor may be equipped with a dash lamp to provide illumination of the instrument panel at night. It is turned on by light switch when main lights are on.

F. Generator tel-light

This lamp glows red if the generator is failing to charge battery properly. It goes out when the generator is in satisfactory condition and is rotating fast enough to charge the battery.

Seat



Seat adjusting lever



Seat back attaching screws

Seat adjustment

Your tractor is equipped with a coil-spring cushioned adjustable seat.

To move the seat to the side pull the seat latch forward and move to the desired position.

There are two positions for moving the seat rearward or forward. To move to one of the two

positions, remove the hex. nuts and lock washers attaching seat slide to base. Lift seat up and attach at new location.

The seat back can be adjusted to either a high or low position. To adjust the seat back, remove the four screws and replace them in the other set of holes.

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operation

Operating the engine

Starting the engine

(1) Perform the following checks and services before starting the engine for the first time each day:

(a) Check the engine crankcase oil level—see page 42.

(b) Check the radiator coolant level—see page 54.

(c) Change the air cleaner oil when the dirt level exceeds 3/8-inch—see page 42.

(d) Check the fuel strainer sediment bowl—see page 53.

(2) Make sure the fuel shut-off valve on the fuel tank is open—see page 53. Make sure the fuel shut-off control knob is pushed in.

(3) Place the shift lever in neutral. Apply brake locks.

(4) Turn key starter switch one-eighth turn counter-clockwise to actuate glow plugs. Starter switch is spring loaded, and so must be held in counter-clockwise position throughout desired preheating period.

Preheat the glow plugs a minimum amount of time as listed:

Temperature	Preheat Time
Above 20° F	15 seconds
20° F to 5° F	15-45 seconds
5° F to -5° F	45-60 seconds
-5° F to -20° F	1 to 3 minutes



(5) To insure delivery of fuel to the injectors, move the hand throttle to the full open position counter-clockwise and then move back to approximately one-half to three-quarters open.

(6) Depress clutch pedal to decrease drag on engine.

(7) Turn key starter switch one-quarter turn clockwise to crank engine.

(8) If engine does not begin firing after 15 to 30 seconds of cranking, preheat glow plugs an additional 15 to 30 seconds before cranking engine again.

CAUTION: If engine fails to start, do not re-use starting switch until starter stops rotating to avoid serious damage to the starter.

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Using hand throttle

Use the hand throttle to select slow idle or any of the variable governed speeds. Moving the lever counter-clockwise increases engine speed; moving the lever clockwise decreases engine speed.

Move the throttle clockwise as far as it will go to obtain slow idle. To obtain the 1900 rpm engine speed, pull throttle counter-clockwise to the first stop. Placing the throttle halfway between slow idle and 1900 rpm gives the 1500 rpm speed. Engine speeds between 1500 and 1900 rpm may be selected by moving the lever between these two positions.

To obtain working speeds above 1900 rpm, pull out on the throttle knob and move throttle counter-clockwise as far as it will go. This is the 2500 rpm position. Engine speeds between 1900 and 2500 rpm may be selected by moving the throttle between these two positions.

Stopping the engine

Stop the engine by performing the following sequence of operations.

1. Apply brake locks and put shift lever in neutral position.
2. Allow engine to run at 1000 rpm until temperature drops down below "N." When temperature is below "N," proceed with Step 3.



3. Turn key starter switch to "OFF" position and pull out fuel shut-off control to cut off fuel. Pulling out the fuel shut-off

control will place the injection pump in "No-Fuel" position. When engine stops, push fuel shut-off control in.

4. Close shut-off valve.

CAUTION: Do not attempt to stop engine by turning off fuel supply at fuel tank shut-off valve. Doing so will cause injection pump to run dry and damage internal parts.

"Breaking in" the engine

Before your new tractor was shipped from the factory, all bearings and friction surfaces were correctly fitted, and crankcase was filled with a "breaking-in" oil.

To be sure that all bearing surfaces will be properly lubricated operate tractor on partload for the first 20 hours of operation. Check periodically to be sure that an adequate supply of oil is maintained in the crankcase. If it becomes necessary to add oil during "breaking-in" period, either SAE 10 or SAE 5W-20 can be used. At the end of this 20 hour period, "breaking-in" oil should be drained, the filter element replaced and the crankcase filled with new oil in accordance with recommendations on page 45.

Shifting gears

Your John Deere 1010 Tractor is equipped with a transmission having five forward speeds and one reverse. Shift gears as follows:

1. With engine running, release foot brakes.
2. Depress clutch pedal and move shift lever into gear desired. If gears do not shift freely or refuse to engage, release clutch pedal slightly, permitting gears in transmission to turn slowly. Shift gears carefully. Clashing gears causes unnecessary wear and possible breakage. Be sure shift lever is moved far enough to place gears in full mesh.
3. When gears have been shifted, release the clutch pedal with slow easy action, allowing tractor to pick up speed slowly. Releasing clutch with a jerk will result in excessive wear on clutch and transmission as well as causing an uncomfortably sudden start.
4. Stop tractor by moving hand throttle clockwise to decrease engine speed. When engine has slowed down the tractor, depress clutch pedal and shift transmission into neutral. Release clutch pedal. Apply brakes and brake locks.