

# John Deere

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MODEL:

70 Series Tractor

MANUAL PREVIEW

OPERATOR'S  
MANUAL



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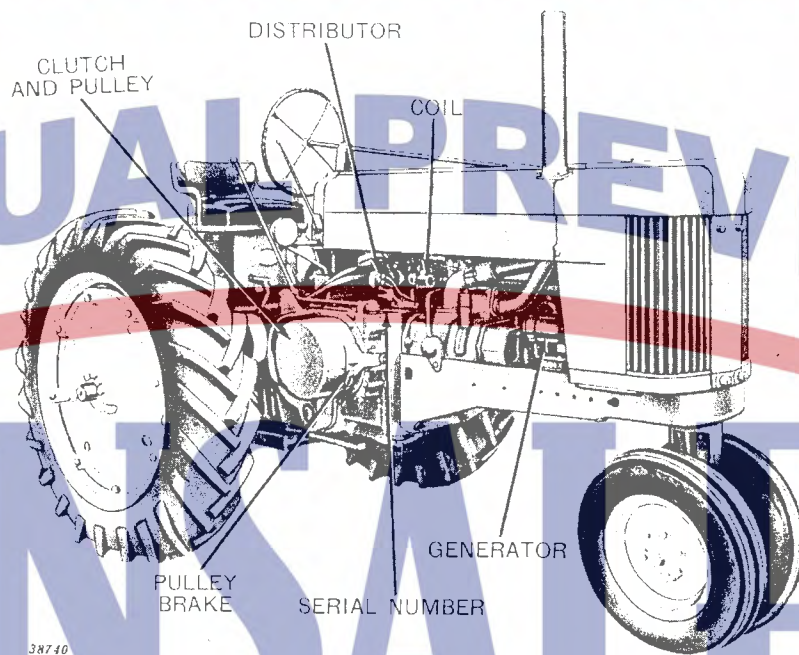
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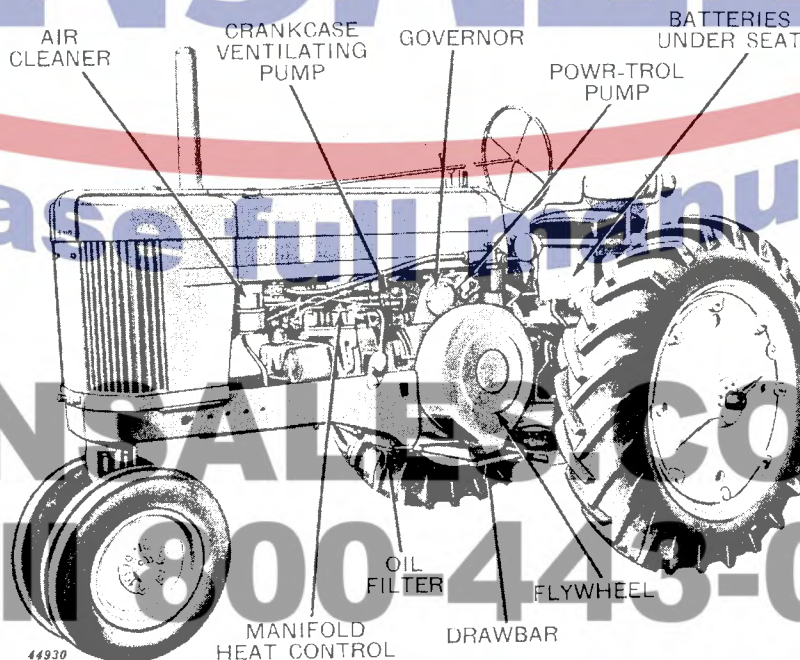


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*John Deere Model "70" Tractor—Pulley Side*



*John Deere Model "70" Tractor—Flywheel Side*

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**REAR AXLES:**

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

**REAR WHEELS AND TIRES:**

Regular and Long Rear Axle.  
 12-38, 6-ply tires on cast disk wheels (recommended for average field conditions). 13-38, 6-ply tires also available.

**REAR WHEEL BRAKES:**

Type.....Two automotive-type internal-expanding rear wheel brakes.

**FRONT WHEEL AND TIRES:****Double and Adjustable Type:**

Reversible for added clearance.

Bearings.....Four tapered roller bearings.

Tires.....6.00 x 16", 6-ply  
 6.00 x 16", 4-ply  
 also available.

**Single Type:**

Bearings.....Two tapered roller bearings.

Tires.....7.50 x 16"

**POWER TAKE-OFF:**

|                              | Double Front Wheel | Single Front Wheel | Adjustable Tread Front Axle |
|------------------------------|--------------------|--------------------|-----------------------------|
| Shaft diameter.....          | 1-3/8"             | 1-3/8"             | 1-3/8"                      |
| Shaft rpm.....               | 532                | 532                | 532                         |
| Splined End Ahead of Hitch.. | 14"                | 14"                | 14"                         |
| Splined Shaft Above Ground:  |                    |                    |                             |
| Transmission Driven.....     | 22-7/8"            | 22-7/8"            | 22-7/8"                     |
| Direct Engine Driven.....    | 25-3/4"            | 25-3/4"            | 25-3/4"                     |

**DIMENSIONS:**

|                             |           |           |                                 |
|-----------------------------|-----------|-----------|---------------------------------|
| Wheel-Base.....             | 91"       | 91-1/4"   | 97-3/8"                         |
| Over-All Height.....        | 88-1/16"  | 89-3/16"  | 89-5/16"                        |
| Over-All Length.....        | 136-1/4"  | 137-1/2"  | 142-5/8"                        |
| Height to Radiator Cap..... | 65-9/16"  | 66-13/16" | 66"                             |
| Width Over Axles.....       | 86-5/8"   | 86-5/8"   | 86-5/8"                         |
| Tread Adjustments*.....     | 60-88"    | 60-88"    | 60-88"                          |
| Clearance.....              | 25-5/16"  | 27-5/16"  | Front 24-3/16"<br>Rear 26-1/16" |
| Turning Radius.....         | 9' 6"     | 9' 2"     | 16' 9"                          |
| Shipping Weight**.....      | 5945 lbs. | 5855 lbs. | 6285 lbs.                       |

\*Also available with long axles providing a tread adjustment of 66-1/2 to 97-1/4 inches.  
 or with offset wheels and long axles providing a tread adjustment of 60 to 104 inches.

\*\*Weights are for tractors dry and with wheel equipment as shown under "Front Wheels" and "Rear Wheels."

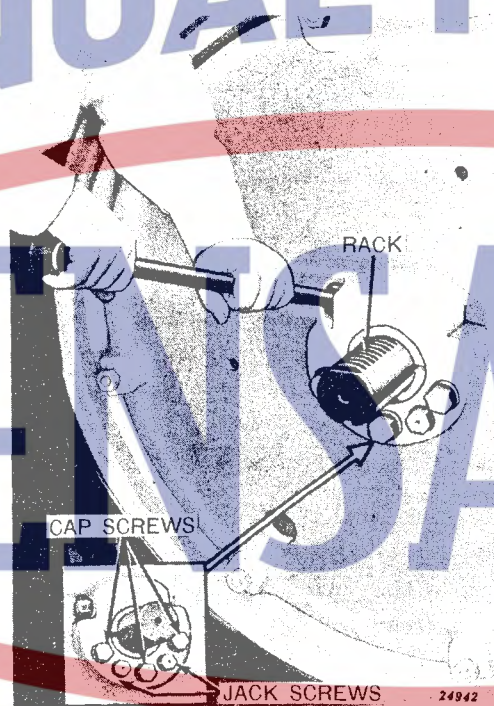
(In the interest of progress, we reserve the right to change design without notice.)

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### Pinion and Rack Adjustment.

Rotate the wheel until the rack on the axle is up as illustrated. This position is important to provide proper action between the pinion gear and rack.



*Adjusting Rear Wheel Tread*



*Measuring Distance From Center of Tractor to Tire*

Loosen the three cap screws shown in the illustration and screw them out 1/4 to 3/8-inch.

Turn the two jack screws clockwise with a wrench until the outer groove in each jack screw is flush with the outer surface of the wheel hub.

Jack up the rear end of the tractor and move the wheel in or out on the axle by turning the pinion shaft with the flywheel wrench furnished with the tractor, or any other suitable wrench.

It is important that both wheels be set the same distance from the center of the tractor.

A slotted hole on the back of the battery compartment (see illustration), is on the exact center line of the tractor. When setting rear wheel tread, use the mark to get the wheels spaced just right.

When desired wheel setting has been obtained, back out the jack screws until inner groove of each jack screw is flush with face of hub. Tighten cap screws securely. Avoid adjusting wheel too close to

the rear axle housing. It is possible to damage the adjusting pinion when the hub is tightened.

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(3) Adjust speed control rod at ball joint for 600 rpm slow idle. Governor spring must clear governor arm stop during this adjustment. (See illustration to the right.)

(4) With engine stopped and speed control lever in closed position, adjust governor arm stop screw so that the carburetor throttle stop screw clears stop pin by 1/8-inch.

#### Adjusting Duplex Carburetor.

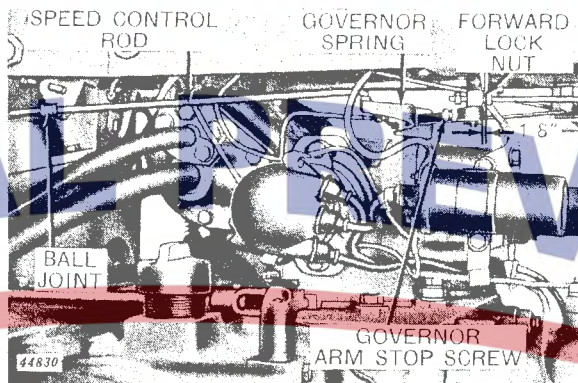
##### *Slow Idle Adjustment.*

(1) Set speed control lever to slow idle position.

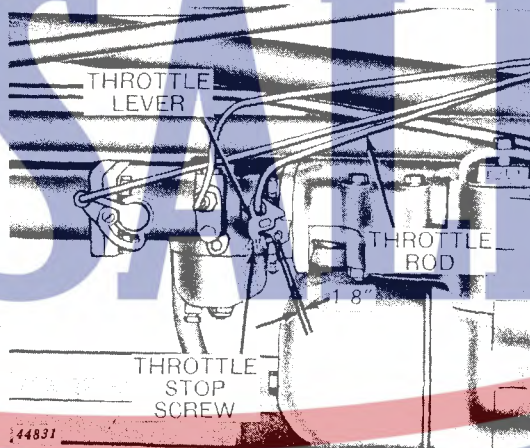
(2) Hook a spring or heavy rubber band over carburetor throttle lever to hold throttle closed on stop screw.

(3) Reset stop screw from 300 rpm to 600 rpm.

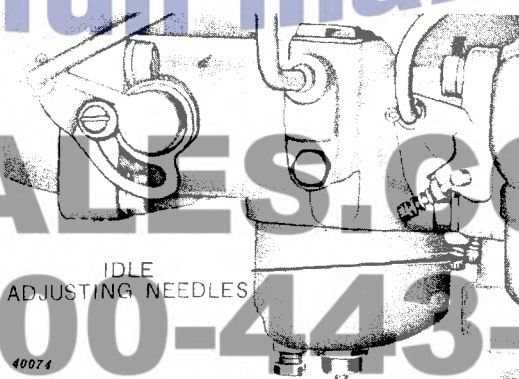
(4) Two idle-adjustment needles are provided, one for each carburetor venturi. Short out the spark plug in No. 1 (left-hand) cylinder and adjust right-hand idle-adjustment needle on carburetor to give maximum rpm with engine operating on No. 2 (right-hand) cylinder only. Then short out spark plug in No. 2 (right-hand) cylinder and adjust left-hand idle-adjustment needle to give maximum rpm with engine operating on No. 1 (left-hand) cylinder only.



*Throttle Control Linkage*



*Throttle Lever, Rod, and Stop Screw*



*Idle-Adjusting Needles*

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