820
Tractor

JOHN DEERE

OPERATORS MANUAL

820
Tractor

OML29340 Issue J2 English

John Deere Tractor Works
OML29340 Issue J2

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ENGLISH

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OML29340 J2

To the Purchaser

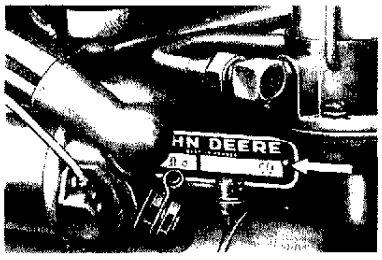
This new tractor was carefully designed and manufactured to give years of dependable service. To keep it running efficiently, read the instructions in this operator's manual. Each section is clearly identified so you can easily find the information you need—whether it is operation, lubrication and periodic service, or trouble shooting. Check the Contents to learn where each section is located. Use the alphabetical index for fast reference.

Record your tractor serial numbers in the spaces provided below. Your dealer needs this information to give you prompt, efficient service and parts. If your tractor requires replacement parts, go to your John Deere dealer where you can obtain genuine John Deere parts—accept no substitutes.

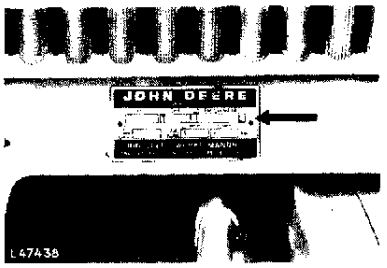
The warranty on this tractor appears on your copy of the purchase order which you should have received from your dealer when you purchased the tractor.

The references in this manual to the "right-hand" and the "left-hand" sides of the tractor are determined by facing in the direction of tractor forward travel.

⚠ This safety alert symbol indicates important safety messages in this manual. When you see this symbol, be alert to the possibility of personal injury and carefully read the message that follows.



Record Tractor Serial Number here



Record Engine Serial Number here

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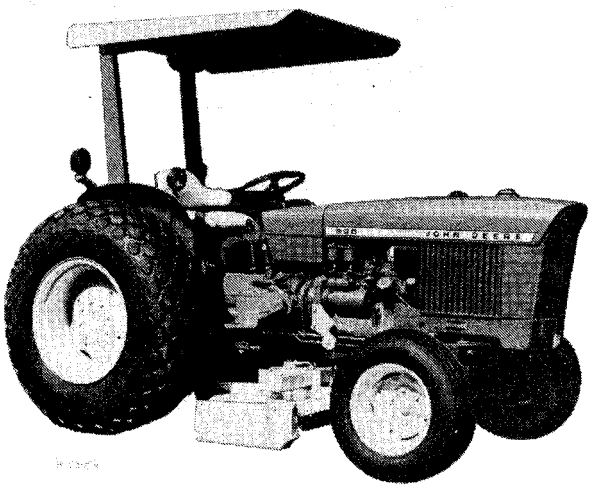

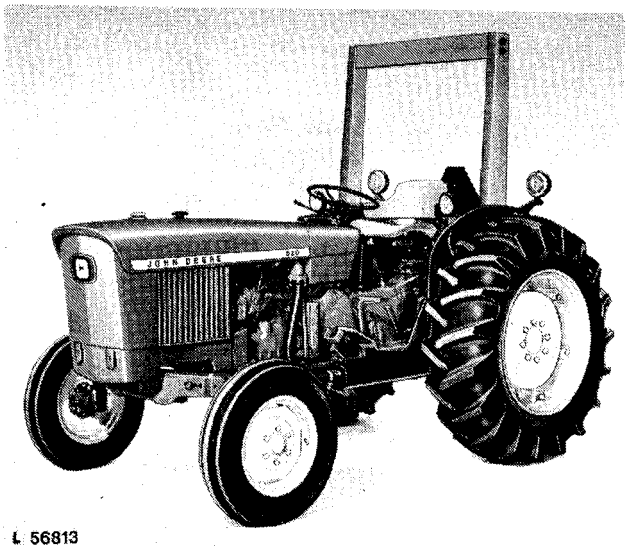

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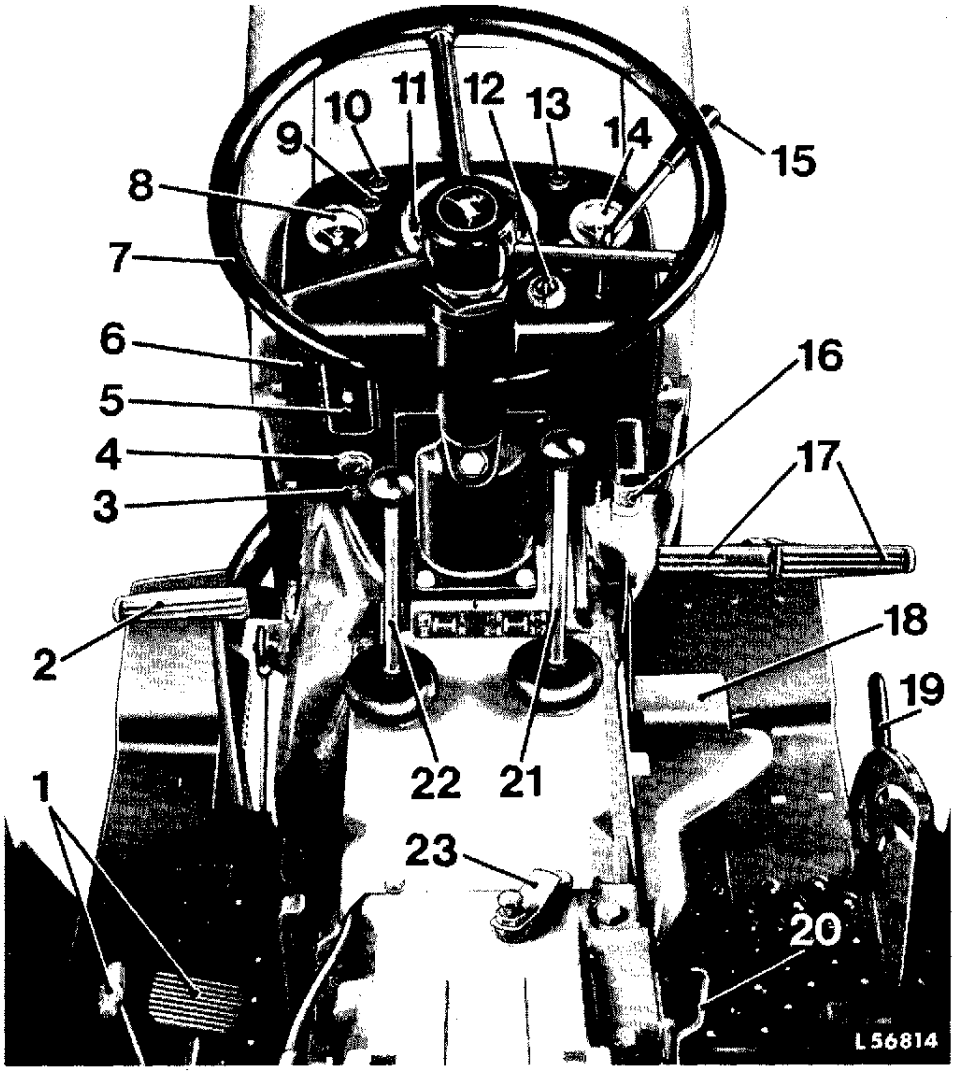
Controls and Instruments

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.



1—Differential Lock (Lever and Pedal)
2—Clutch Pedal
3—Starter Button
4—Main Switch (Electrical System)
5—Fuse Box
6—Instrument Panel
7—Steering Wheel
8—Water Temperature Gauge
9—Air Cleaner Indicator Light
10—Alternator Indicator Light
11—Speed-Hour Meter
12—Light Switch
13—Engine Oil Pressure Indicator Light
14—Fuel Gauge
15—Hand Throttle
16—Starting Fluid Adapter
17—Brake Pedals
18—Foot Throttle
19—Rockshaft Control Lever
20—Rockshaft Selector Lever
21—Gear Shift Lever
22—Range Shift Lever
23—Rate-of-Drop Lever

INSTRUMENTS

Control Lights

Alternator **Engine Oil Pressure**

The above control lights should light up as soon as main switch is moved to position "1". If this is not the case, a burnt-out bulb or blown fuse may be the cause. Replace defective bulb or fuse.

The control lights should go out as soon as the engine is running and the engine speed has been raised. If this is not the case or if a light goes on during operation, immediately shut off engine and correct the problem.

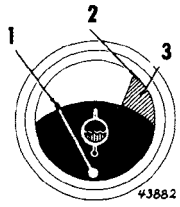
If alternator indicator light goes on during engine operation, the alternator is not charging. Check for loose alternator connections, slackness of V-belt or defective alternator.

If engine oil pressure indicator light goes on during engine operation, stop the engine, check oil level and condition of engine oil filter.

Air Cleaner Indicator Light

If air cleaner indicator light goes on, clean air filter element or replace element after it has been cleaned six times.

Coolant Temperature Gauge



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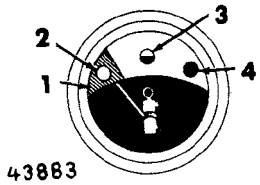
1—100°F (38°C)
2—219°F (104°C)
3—Red warning zone

If the gauge needle is in the red warning zone, the engine is overheating and must be stopped at once. Check coolant level in radiator and check cooling system for leaks.

Fuel Gauge



1—Red warning zone
2—Empty tank
3—Half-full tank
4—Full tank

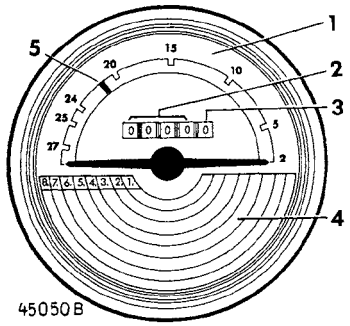
The fuel gauge shows the amount of fuel in tank, from "empty" to "half-full" and "full".

Refill tank as soon as needle points to red zone.

Never run fuel tank completely dry.

Speed-Hour Meter

The speed-hour meter facilitates the economical use of the tractor under all operating conditions. It also facilitates choosing the right gear.



The speed-hour meter shows the following:

1 — Engine speed on the upper half of the dial. The figure shown multiplied by 100 indicates the actual number of engine revolutions.

2 — Hours of operation in full hours.

3 — Hours of operation in tenths of hours.

The hour meter facilitates close observation of the proper service intervals.

4 — The tractor speed for the gear engaged.

5 — PTO operation. The green mark shows the engine speed required for powershaft operation,

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