



920 Tractor

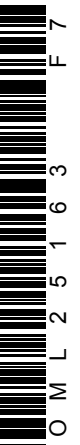


JOHN DEERE

OPERATORS MANUAL

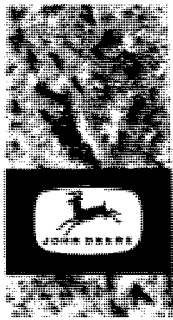
920
Tractor

OML25163 F7 English



OML25163 F7

LITHO IN U.S.A.
ENGLISH



TO THE PURCHASER

Your versatile new John Deere Tractor meets the exacting requirements of modern farming.

Operating ease and comfort, hydraulic power when and where you need it, the ability to match engine power and transmission speed to any job, outstanding economy and dependability, modern styling, and simplicity of lubrication and service are all special features of this great tractor.

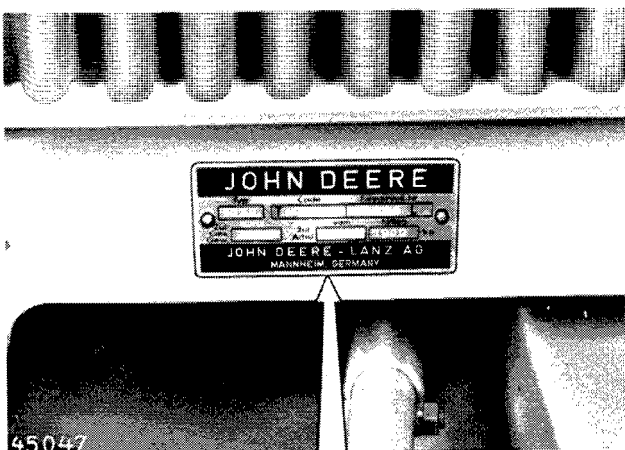
At the time the tractor was delivered, the John Deere dealer discussed with you its safe operation and proper care. However, before putting the tractor to work, read this manual. It contains complete instructions for operating the tractor, caring for it, and taking full advantage of its many time- and labor-saving features. After reading the manual, keep it in a convenient place for quick and easy reference if questions arise concerning operation, lubrication, or service.

The service policy which you received with your new tractor certifies that the tractor was properly inspected and prepared for delivery by your John Deere dealer. Keep this policy in a safe place and present it to the dealer whenever services which it authorizes are required.

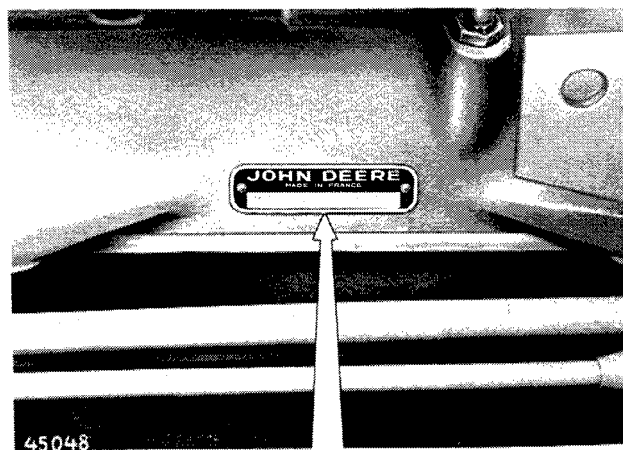
Your John Deere dealer wants to help you get the most value from your tractor. His skilled servicemen can handle every job efficiently. These men are trained in modern service methods; they have all necessary tools and equipment. If new parts are needed, only genuine John Deere parts will be installed. These parts are exact duplicates of the originals, made from the same patterns and of the same high-quality materials.

References to right and left sides of the tractor are made throughout this manual. The left and right sides are determined when facing forward in the operator's seat.

When in need of new parts, be prepared to furnish your dealer with the engine type and serial number, the tractor type and serial number, and the tractor series number. For ready reference, locate and record these numbers in the spaces provided in the following illustrations.



Tractor Serial Number

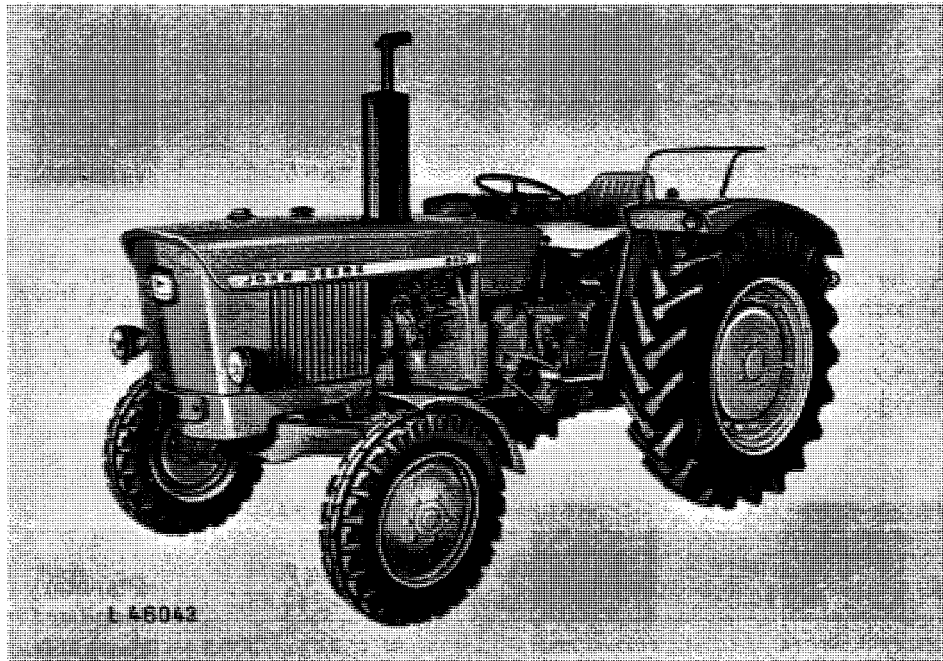


Engine Serial Number



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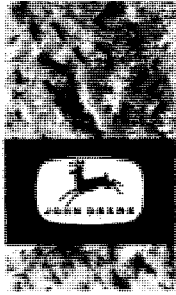
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SPECIFICATIONS

ENGINE

Maximum horsepower* measured at the flywheel	
a) incl. Accessories**	37 HP (37 PS)
b) without Accessories**	39 HP (40 PS)
PTO horsepower at 2300 rpm engine speed	33 HP (34 PS)
Maximum torque at 1300 rpm	100 ft. lbs (13.8 mkg)
Number of cylinders	3
Bore	3.86 ins (98 mm)
Stroke	4.33 ins (110 mm)
Displacement	152 cu. ins (2490 cm ³)
Compression ratio	16.7 : 1
Firing order	1 - 2 - 3
Intake valve clearance	0.014 ins (0.35 mm)
Exhaust valve clearance	0.018 ins (0.45 mm)
Slow idle	650 rpm
Fast idle	2440 rpm (2545***)
Full engine power at	2300 rpm
Working speed range	1300 to 2300 rpm

* 1 PS = 0.736 KW

** Waterpump, Fan, Generator, Air Cleaner and Muffler

*** By operating Foot Throttle

ELECTRICAL SYSTEM

Battery voltage	12 Volt
Battery specific gravity at full charge (at 80° F = +27° C)	1.26
Battery terminal grounded	negative

CAPACITIES

	Imp. Gals (US Gals)	(Litres)
Fuel tank	13.75 (16.50)	(62.50)
Cooling System	2.30 (2.75)	(10.40)
Crankcase (including filter)	1.50 (1.75)	(6.70)
Transmission — hydraulic system	8.40 (10.00)	(38.00)
Air Cleaner (oil bath type)	0.22 (0.26)	(1.00)
Belt pulley	0.25 (0.30)	(1.10)

CLUTCH	Dual stage
Transmission	Collar Shift

FINAL DRIVE	Planetary reduction drive
Differential Lock	Hand or foot operated mechanical lock, spring-loaded out of engagement

POWER TAKE-OFF (continous running)

Rear 540 rpm
 Front 1000 rpm

HYDRAULIC SYSTEM open center

BRAKES

Foot operated Hydraulically actuated, wet-disk type, one each per rear wheel
 Handbrake Band-type brake, acting on differential

TIRES

Rear Tires

Tire size	Ply
9.5 / 9-36	6
11.2 / 10-36	6
12.4 / 11-28	6
12.4 / 11-32	6

Front Tires

Tire size	Ply
5.50-16	4
6.00-16	6

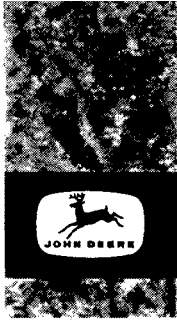
DIMENSIONS

	Tire sizes			
	9.5 / 9-36	11.2 / 10-36	12.4 / 11-28	12.4 / 11-32
Over-all height* (vertical exhaust)	2000 mm (78.74 ins)	2000 mm (78.74 ins)	2000 mm (78.74 ins)	2000 mm (78.74 ins)
Height up to back-rest for Co-Driver	1655 mm (65.16 ins)	1734 mm (68.27 ins)	1613 mm (63.50 ins)	1713 mm (67.44 ins)
Height up to fender	1455 mm (57.28 ins)	1534 mm (60.39 ins)	1413 mm (55.63 ins)	1513 mm (59.57 ins)
Over-all length (w. 3-point hitch)	3425 mm (134.84 ins)	3425 mm (134.84 ins)	3425 mm (134.84 ins)	3425 mm (134.84 ins)
Wheelbase	1890 mm (74.40 ins)	1890 mm (74.40 ins)	1890 mm (74.40 ins)	1890 mm (74.40 ins)
Over-all width with smallest track width	1500 mm (59.06 ins)	1680 mm (66.14 ins)	1680 mm (66.14 ins)	1680 mm (66.14 ins)
with largest track width	2160 mm (85.04 ins)	2140 mm (84.25 ins)	2160 mm (85.04 ins)	2160 mm (85.04 ins)

* This height is only valid for a front tire size of 5.5-16. The over-all-height increases by 0.4 in (10 mm) for a tire size of 6.0-16.

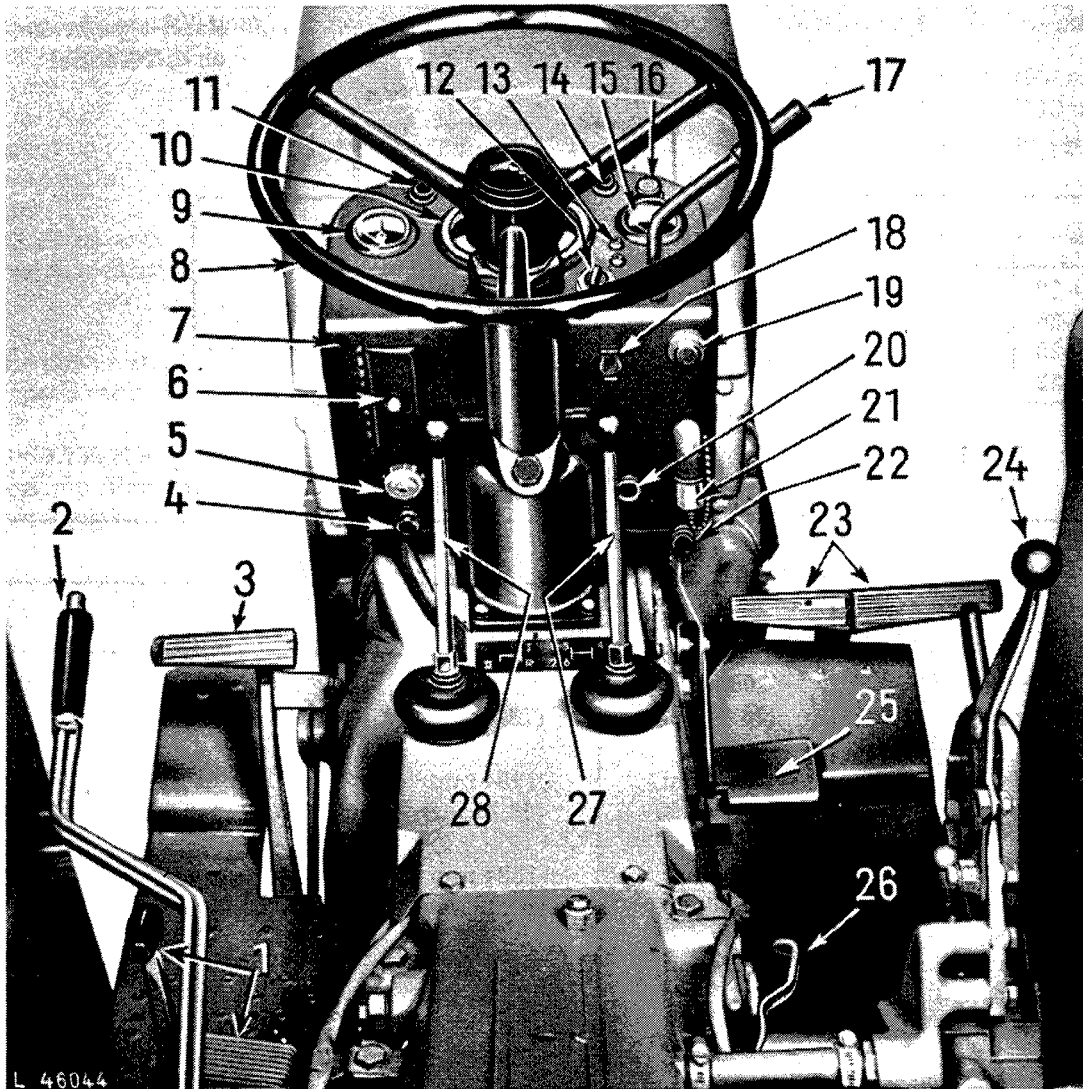
Turning radius 126 ins (3200 mm)

(Specifications and design subject to change without notice)



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 = Handbrake Lever
 3 = Clutch Pedal
 4 = Starter Button
 5 = Main Switch (Electrical System)
 6 = Fuse Box
 7 = Instrument Panel
 8 = Steering Wheel
 9 = Water Temperature Gauge
 10 = Tachometer

11 = Generator Indicator Light
 12 = Turn Signal Switch
 13 = Turn Signal Switch for trailer
 14 = Engine Oil Pressure Indicator Light
 15 = Fuel Gauge
 16 = Full Beam Indicator Light
 17 = Hand Throttle
 18 = Socket for Handlamp
 19 = Horn Button
 20 = Cigar Lighter

21 = Starting Fluid Adapter
 22 = Engine Shut-Off Knob (Bosch and Roto-Diesel Injection Pumps)
 23 = Brake Pedal
 24 = Selective Control Lever
 25 = Foot Throttle
 26 = Rockshaft System Lever
 27 = Gear Shift Lever
 28 = Range Shift Lever



OPERATION

Complete instructions for operating your tractor safely and efficiently are given on the following pages. By following these directions carefully, you can be sure that you are taking full advantage of the many features built into your tractor.

OPERATING THE ENGINE

PRE-STARTING INSPECTION

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

Check the engine crankcase oil level—see page 47.

Check the radiator coolant level — see page 48.

Inspect air cleaner — see page 46 or 47.
(If equipped with a pre-cleaner, drain it — see page 48).

Check the fuel sediment bowls at the fuel pump and fuel filter — see page 55.

Make sure the fuel shut-off valve at the fuel tank is open.

STARTING THE ENGINE

1. The tractor is equipped with a starter safety switch. When starting the engine, the range shift lever must be in neutral position. If the tractor has no 2nd brake (handbrake) this lever can be put in park (P) position. Depress clutch pedal to decrease drag on engine.

2. With Bosch or Roosa-Master injection pumps, place hand throttle in halfway open position; with Roto-Diesel injection pump in fully open position.

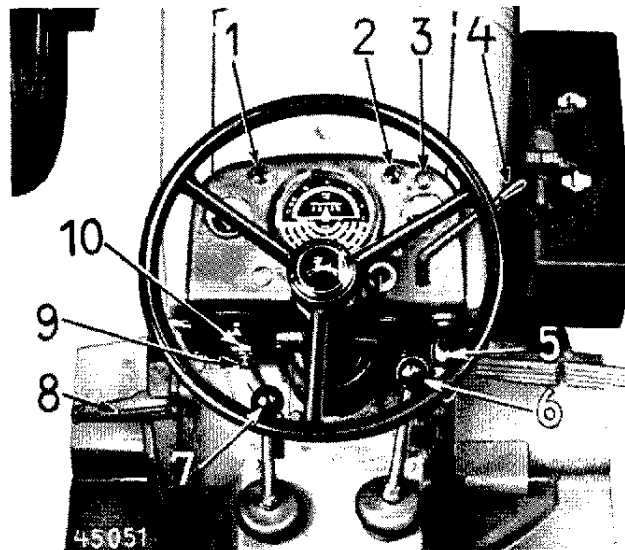
3. At temperatures below 0° C (+ 32° F), use cold weather starting aids (see "Cold Weather Starting Aids" on next page).

4. Insert switch key into main switch.

5. Depress Starter Button. As soon as engine starts, release this button at once. Do not crank engine for more than 30 seconds at a time otherwise the Starter gets overheated. Wait a minute or two before trying again.

6. As soon as the engine (equipped with Roto-Diesel injection pump) starts, put hand throttle in halfway open position.

As soon as the main switch is operated, the engine oil pressure indicator light and the generator indicator light should light up. If the lights do not go out after the engine has been running for 10 seconds, the engine should be shut off at once and the cause of difficulty be determined and eliminated.



- | | |
|---|-----------------------|
| 1 = Generator Indicator Light | 6 = Gear Shift Lever |
| 2 = Engine Oil Pressure Indicator Light | 7 = Range Shift Lever |
| 3 = Full Beam Indicator Light | 8 = Clutch Pedal |
| 4 = Hand Throttle | 9 = Starter Button |
| 5 = Starting Fluid Adapter | 10 = Main Switch |

7. Release clutch pedal. In cold weather, warm engine and transmission for five minutes by operating engine at half throttle. Do not allow engine to operate at slow idle speed during engine warm-up. Observe gauges.

NOTE: If engine fails to start, refer to trouble shooting charts on page 66.

CAUTION: If you must tow the tractor for starting, do not tow it at a speed greater than normal for the gear in which the tractor is being towed. Tow the tractor for starting only in 6th, 7th, or 8th gear.

COLD WEATHER STARTING AIDS

To assist in cold weather starting, several aids are available. These optional aids are explained below. Auxiliary batteries can be used. For diesel tractors, a starting fluid adapter can be used. See your John Deere dealer for auxiliary batteries and other starting aids.

These aids are effective at low temperatures only when the engine is otherwise operating satisfactorily. They will not correct such deficiencies as low battery charge, crankcase oil of too heavy viscosity, or high electrical resistance, any of which may prevent the engine from starting.

AUXILIARY BATTERIES

Starting the engine in cold weather can be made easier by connecting an additional 12-volt battery in parallel with the 12-volt battery or batteries on the tractor.

Use jumper cables to connect the positive (+) terminal of the booster battery to the positive (+) terminal of the tractor battery and the negative (—) terminal of the booster battery to negative (—) terminal of the tractor battery. See your John Deere dealer for booster batteries.

CAUTION: The batteries on your tractor are **NEGATIVE grounded only**. Reversed polarity in battery or generator connections will result in damage to electrical system.

DIESEL STARTING FLUID ADAPTER

Your diesel tractor may be equipped with a John Deere Starting Fluid Adapter. This attachment is used to inject atomized starting fluid into the engine air intake system when starting the engine at temperatures below 32° F.



T 11738

CAUTION: Before starting the tractor engine, be sure there is plenty of ventilation. Never operate the tractor in a shed or garage. Danger of poisoning!

CAUTION: Starting fluid is highly flammable.



Injecting Diesel Starting Fluid

To use starting fluid, remove the safety cap and plastic spray button from the can. Remove the cap from the adapter and position the can under the adapter as shown with the tube in the adapter hole. To inject fluid, push up on can; then release it, while cranking engine.

CAUTION: To avoid damage, turn engine with starter one or two revolutions before injecting starting fluid. Inject starting fluid only while engine is turning. Inject starting fluid intermittently, not continuously.

8 Operation

Relax pressure on the can between "shots" of fluid. Stop injecting fluid as soon as the engine starts. If engine begins to die during the first few minutes of operation, inject another "shot" of fluid. When the engine is running smoothly, remove the can from the adapter and replace the safety cap on the can.

Be sure to put the cap back on the adapter when not in use. This prevents dust from being drawn into the engine.

Store starting fluid cans where they will not be subject to extreme cold or heat. For best results, store fluid at room temperature.

CAUTION: Before throwing away used up starting fluid containers, remove the remaining fluid at a place that is well aired and free of fire hazards.

TRACTOR WARM-UP PERIOD

Before putting your tractor under full load or into high gear, be sure it is warmed up sufficiently. Oil will then circulate freely, preventing excessive wear on piston rings, cylinders and bearings. Do not race engine or idle it during warm-up period.

CAUTION: Before starting the tractor engine, be sure there is plenty of ventilation. Never operate the tractor in a shed or garage. Danger of poisoning!

ENGINE IDLING

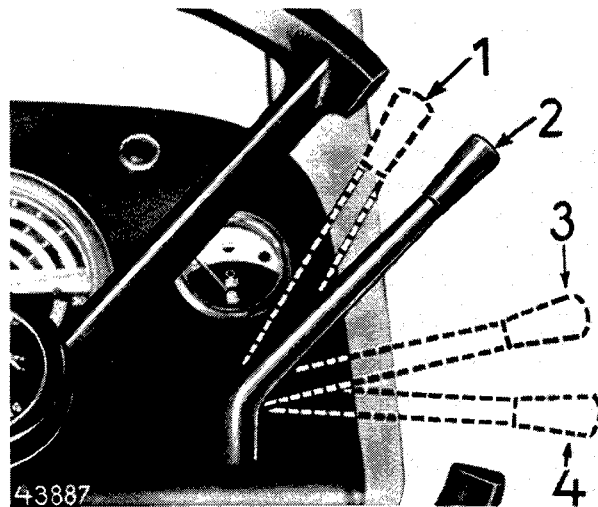
Avoid unnecessary engine idling. Prolonged engine idling may cause the engine coolant temperature to fall below its normal range. This in turn causes crankcase oil dilution, due to incomplete fuel combustion, and permits formation of lacquer or gummy deposits on valves, pistons, and piston rings. It also promotes rapid accumulation of engine sludge.

ENGINE SPEEDS

The engine is designed to operate under load at speeds ranging from 1300 to 2300 rpm. These are variable governed speeds, and the engine can be operated at any speed between the two extremes to meet various working conditions. Maximum continuous power at full load is obtained at 2300 rpm.

Operate the engine at 2100 rpm to obtain SAE standard PTO speeds. Use this speed when operating the power take-off.

USING HAND THROTTLE

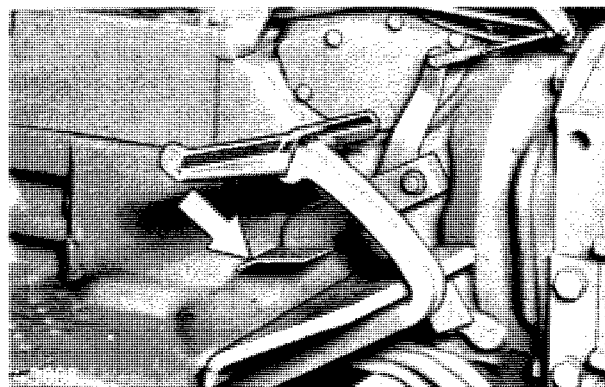


Range of Hand Throttle Positions

- | | |
|---|---------------|
| 1 = Engine Shut-Off (on tractors equipped with ROOSA-MASTER injection pump) | 2 = Slow Idle |
| | 3 = PTO Speed |
| | 4 = Fast Idle |

Use hand throttle to select any of the variable engine speeds between slow idle and fast idle. Move lever counterclockwise to slow down engine; move lever clockwise to speed up engine.

USING FOOT THROTTLE



Use the foot throttle to speed up the engine quickly, as during transport. The foot throttle is also a handy control during loader operation when the hands are busy with levers. When the pedal is released, the engine speed returns to the hand throttle setting.

When driving on the road, move hand throttle to "Slow Idle" position and use foot throttle as required.

STOPPING THE ENGINE

If the tractor has a 2nd brake (handbrake), move the gear shift lever into neutral position and pull the hand brake. If it is not equipped with a 2nd brake, move the gear shift lever into any gear position. Then place the range shift lever in park (P) position. This will lock the gears and hold the tractor in place.

Run the engine at 1300 rpm for a short time before stopping it. Sudden stopping of a hot engine may allow some parts to overheat momentarily and possibly cause damage.

With ROOSA-MASTER injection pumps, the hand throttle has to be moved counterclockwise lifted and moved on up to its stop.

The Bosch and Roto-Diesel injection pumps can be shut-off by means of pulling the Engine Shut-Off Knob on the Instrument Panel. After engine stop, this knob has to be pushed back all the way.

CAUTION: Never attempt to stop the diesel engine by turning off the fuel supply. This will cause the fuel injection pump to run dry and damage internal parts.

IMPORTANT: Remove switch key to prevent accidents and battery discharge if the switch is accidentally left in the "on" position.

BREAK-IN PERIOD

Before your new tractor was shipped from the factory, all bearings and friction surfaces were correctly fitted, and the crankcase was filled with fresh oil.

To be sure that all bearing surfaces will be properly lubricated, operate the tractor at normal load for the first 20 hours of operation. Avoid light loads or excessive engine idling. Check periodically to be sure that an adequate supply of oil is maintained in the crankcase. If it becomes necessary to add oil during the first 20 hours, use new oil of the normal types recommended on page 41.

At the end of this 20-hour period, drain oil, replace filter element, and fill the crankcase with new oil as recommended on page 41. Thereafter, drain and refill crankcase at the end of each 250 hours of operation.

At the end of the first 4 hours and 8 hours of operation, retighten all wheel retainers and front axle set screws. Check tightness of the retainers and set screws frequently for the first 100 hours of operation (see pages 18 and 19).

At the end of the first 50 hours of operation, change the transmission-hydraulic system oil filter (see page 51).

After the first 100 hours, retighten the front axle tie rods and steering drag link end nuts to 105 ft-lbs.

DRIVING THE TRACTOR

SELECTING TRAVEL SPEEDS

The tractor has eight forward gears and four reverse gears. These gears, together with the engine speeds that may be selected, allow the operator to balance load and speed for maximum economy, and give him flexibility to meet varying work conditions. For example, for a given travel speed the operator may choose to work in a low gear at a high engine speed or in a higher gear at a lower en-

gine speed. Engine working speeds may be varied anywhere between 1300 and 2300 rpm. Tractor travel speeds in various gears are given in the charts on the following pages.

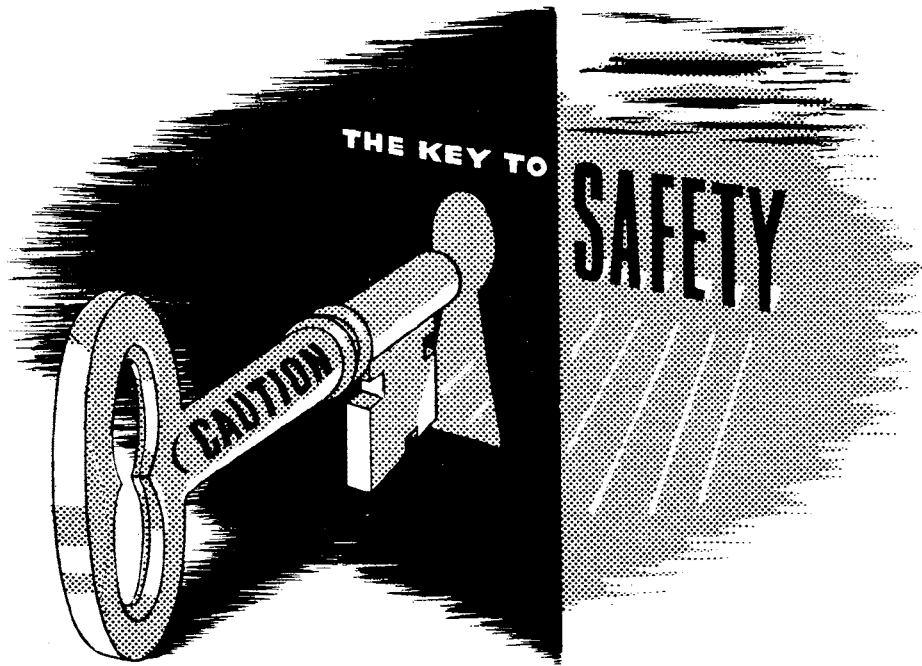
Decals near the range shift lever and gear shift lever show range positions and gear positions permitting selection of the proper speed for the work to be performed.

10 Operation

TRAVEL SPEEDS

Model		920						
Full Engine Power in rpm.		2400						
Tire Sizes		12,4 / 11 - 28		12,4 / 11 - 32		9,5 / 9 - 36		11,2/10 - 36
Speed Limit		20 km/h (12.4 mph)	25 km/h (15.5 mph)	20 km/h (12.4 mph)	25 km/h (15.5 mph)	20 km/h (12.4 mph)	25 km/h (15.5 mph)	25 km/h (15.5 mph)
Gear		km/h (mph)	km/h (mph)	km/h (mph)	km/h (mph)	km/h (mph)	km/h (mph)	km/h (mph)
1		2,2 (1.4)	2,0 (1.2)	2,4 (1.5)	2,0 (1.3)	2,4 (1.5)	2,0 (1.3)	2,1 (1.3)
2		3,1 (2.0)	2,9 (1.8)	3,4 (2.1)	2,9 (1.8)	3,4 (2.1)	2,9 (1.8)	3,0 (1.9)
3		4,7 (2.9)	4,3 (2.7)	5,1 (3.1)	4,3 (2.7)	5,1 (3.2)	4,3 (2.7)	4,4 (2.8)
4		6,5 (4.1)	6,0 (3.7)	7,1 (4.4)	6,0 (3.7)	7,1 (4.4)	6,1 (3.8)	6,2 (3.9)
5		8,6 (5.4)	7,9 (4.9)	9,4 (5.8)	8,0 (5.0)	9,4 (5.8)	8,0 (5.0)	8,2 (5.1)
6		12,3 (7.6)	11,3 (7.0)	13,3 (8.3)	11,4 (7.1)	13,4 (8.3)	11,5 (7.1)	11,7 (7.3)
7		18,3 (11.4)	16,7 (10.4)	19,8 (12.3)	16,9 (10.5)	19,9 (12.4)	17,0 (10.6)	17,4 (10.8)
8			23,4 (14.5)		23,6 (14.7)		23,8 (14.8)	24,4 (15.2)
R 1		2,6 (1.6)	2,3 (1.5)	2,8 (1.7)	2,4 (1.5)	2,8 (1.7)	2,4 (1.5)	2,4 (1.5)
R 2		3,7 (2.3)	3,3 (2.1)	4,0 (2.5)	3,4 (2.1)	4,0 (2.5)	3,4 (2.1)	3,5 (2.2)
R 3		5,4 (3.4)	5,0 (3.1)	5,9 (3.6)	5,0 (3.1)	5,9 (3.7)	5,0 (3.1)	5,2 (3.2)
R 4		7,6 (4.7)	6,9 (4.3)	8,2 (5.1)	7,0 (4.3)	8,3 (5.1)	7,0 (4.4)	7,2 (4.5)

TRAVEL SPEEDS							
Model	920						
Engine Speed	2100 (for PTO operation)						
Tire Sizes	12,4 / 11 - 28		12,4 / 11 - 32		9,5 / 9 - 36		11,2/10 - 36
Speed Limit	20 km/h (12.4 mph)	25 km/h (15.5 mph)	20 km/h (12.4 mph)	25 km/h (15.5 mph)	20 km/h (12.4 mph)	25 km/h (15.5 mph)	25 km/h (15.5 mph)
Gear	km/h (mph)	km/h (mph)	km/h (mph)	km/h (mph)	km/h (mph)	km/h (mph)	km/h (mph)
1	1,9 (1.2)	1,8 (1.1)	2,1 (1.3)	1,8 (1.1)	2,1 (1.3)	1,8 (1.1)	1,8 (1.1)
2	2,7 (1.7)	2,5 (1.6)	3,0 (1.9)	2,5 (1.6)	3,0 (1.9)	2,5 (1.6)	2,6 (1.6)
3	4,1 (2.5)	3,8 (2.4)	4,5 (2.8)	3,8 (2.4)	4,5 (2.8)	3,8 (2.4)	3,9 (2.4)
4	5,7 (3.5)	5,3 (3.3)	6,2 (3.9)	5,3 (3.3)	6,2 (3.9)	5,3 (3.3)	5,4 (3.4)
5	7,5 (4.7)	6,9 (4.3)	8,2 (5.1)	7,0 (4.3)	8,2 (5.1)	7,0 (4.3)	7,2 (4.5)
6	10,8 (6.7)	9,9 (6.2)	11,6 (7.2)	10,0 (6.2)	11,7 (7.3)	10,1 (6.3)	10,2 (6.3)
7	16,0 (9.9)	14,6 (9.1)	17,3 (10.7)	14,8 (9.2)	17,4 (10.8)	14,9 (9.3)	15,2 (9.4)
8		20,5 (12.7)		20,6 (12.8)		20,8 (12.9)	21,4 (13.3)
R 1	2,3 (1.4)	2,0 (1.2)	2,5 (1.6)	2,1 (1.3)	2,5 (1.6)	2,1 (1.3)	2,1 (1.3)
R 2	3,2 (2.0)	2,9 (1.8)	3,5 (2.2)	3,0 (1.9)	3,5 (2.2)	3,0 (1.9)	3,1 (1.9)
R 3	4,7 (2.9)	4,4 (2.7)	5,2 (3.2)	4,4 (2.7)	5,2 (3.2)	4,4 (2.7)	4,6 (2.9)
R 4	6,6 (4.1)	6,0 (3.7)	7,2 (4.5)	6,1 (3.8)	7,3 (4.5)	6,1 (3.8)	6,3 (3.9)

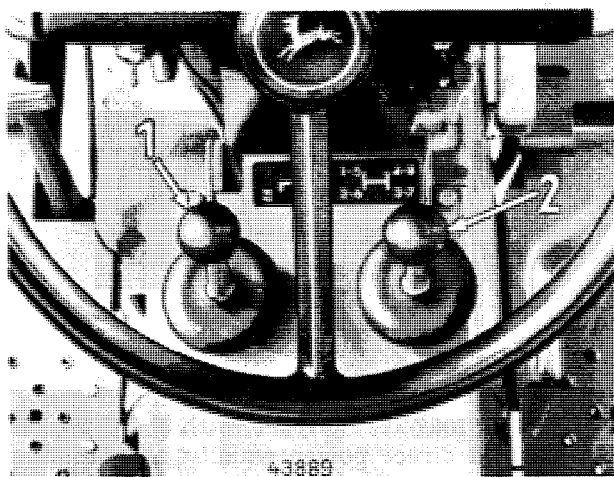


OVERLOADING

This tractor will handle economically and efficiently all jobs within its range of power. Using tractor on loads beyond its power range places excessive strain on all parts and will eventually result in unnecessary repair expense and impaired operating efficiency.

An overloaded tractor can usually be detected by gradual slowing down in travel speed and slowing down and laboring of engine. Using more than the recommended amounts of ballast will also result in overloading the tractor and cause transmission damage.

SHIFTING GEARS



1 = Range Shift Lever (left hand lever)
2 = Gear Shift Lever (right hand lever)

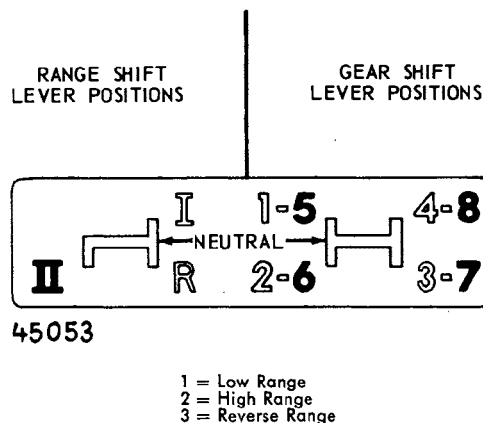
Gear shifting is controlled by a range shift lever (left-hand lever) and a gear shift lever (right-hand lever).

The range shift lever shifts between low, high and reverse ranges. A park (P) position is also provided.

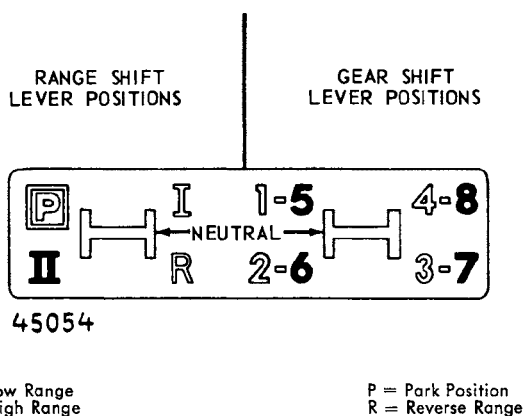
The gear shift lever can be used to select 1st, 2nd, 3rd, and 4th gears when the range shift lever is in low range position; it can be used to select 5th, 6th, 7th, and 8th gears when the range shift lever is in high range position. When the range shift lever is in reverse range, reverse gears comparable to 1st, 2nd, 3rd, and 4th can be obtained.

The shift patterns are marked by a decal on the transmission case shield (see next page).

The following decal applies to tractors equipped with a 2nd brake.



The following decal applies to tractors without a 2nd brake.



SHIFTING FROM NEUTRAL

1. Fully depress clutch pedal.
2. Move gear shift lever from neutral into gear desired. Then move range shift lever into high, low, or reverse range as desired. Slide levers fully into position when gears stop rotating.
3. Gradually release clutch pedal to take up load smoothly.

SHIFTING TO ANOTHER GEAR

To shift from a low to a high gear, the following sequence must be observed:

1. Run engine at high speed.
2. Depress clutch pedal.
3. Decrease engine speed.
4. Shift gear to higher position.
5. Slowly release clutch pedal.
6. Increase engine speed.

To smoothly shift from a high to a low gear, the following sequence of steps must be observed:

14 Operation

1. Decrease engine speed.
2. Depress clutch pedal.
3. Shift range shift lever into neutral position.
4. Release clutch pedal for a moment.
5. Increase engine speed.
6. Depress clutch pedal.
7. Shift gear to lower position.
8. Slowly release clutch pedal.

SHIFTING TO ANOTHER RANGE

To shift to another range, fully stop the tractor and disengage the clutch before attempting to change the range.

HIGH SPEED DRIVING

Use high speed (8th) gear to save time in transport over highways and other smooth roads. But-BE CAREFUL! Fast driving is the cause of many accidents. On rough ground, shift to a lower gear for safety.

PARKING THE TRACTOR

Completely stop the tractor. Move the gear shift lever into any gear position. Then move the range shift lever to park (P) position. This applies to tractors without a 2nd brake.

If the tractor has a 2nd brake (hand brake) this handbrake must be well applied when the tractor is parked or when it operates stationary.

TOWING THE TRACTOR

When towing the tractor, move both the range and gear shift levers to the neutral position. This will prevent undue wear on transmission parts during towing.

CAUTION: Never tow the tractor at a speed greater than 15 miles per hour.

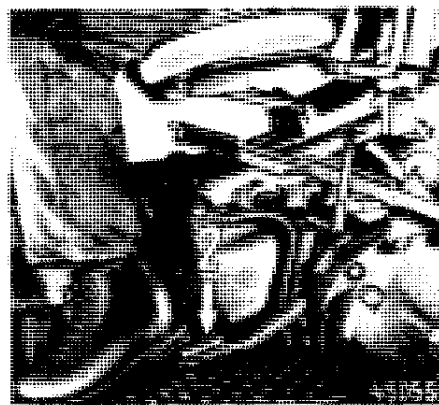


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CAUTION: Fast driving causes many accidents. Adjust your speed always to the terrain features and to the extent of traffic.

DIFFERENTIAL LOCK

Your tractor may be equipped with a differential lock, used to direct power equally to both rear wheels. This prevents the usual loss of traction when one wheel is slipping.



1 = Hand Lever for Differential Lock
2 = Foot Lever for Differential Lock



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The differential lock can be operated by hand or by foot.

A hand control lever is provided at the left side of the tractor on the RU and HU tractors. The LU tractor is provided with a foot lever in the same location.

When slippery conditions are anticipated or encountered, engage the differential lock. To engage the differential lock "on the go", push out on the lever (or down on the pedal). Unequal traction will keep the lock engaged. When traction is equalized, the pedal or lever will disengage itself by spring action.

You may have to hold the lever or pedal engaged if unequal traction is not continuous.

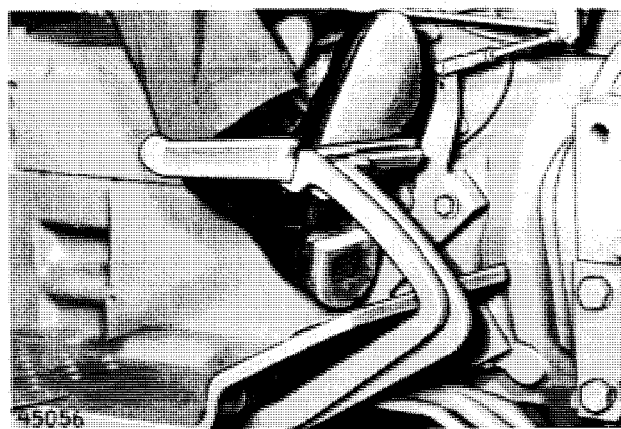
CAUTION: Do not attempt to turn the tractor with the differential lock engaged.

HYDRAULIC BRAKES

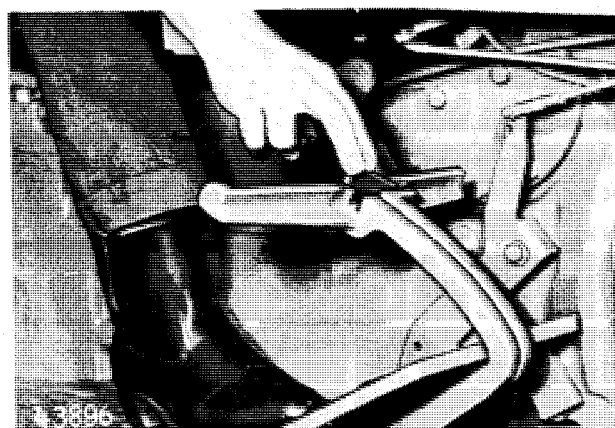
When turning the tractor, press down on a single brake pedal; use the left pedal to turn left, and the right pedal to turn right.

Use brake for steering purposes at low speed only!

When stopping the tractor, press down on both brake pedals. When travelling at high speeds on the road, couple the pedals together as shown and use a light pressure on the pedals.



Using Brake to Make a Sharp Left-Hand Turn

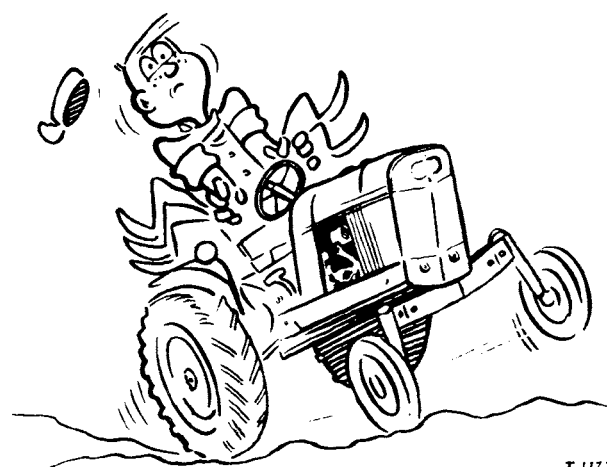


Coupling Brake Pedals Together

Couple the brake pedals together for road travel, and always drive at a safe speed.

To drive safely, keep the brakes always in good condition. If they become weak, fix them right away!

CAUTION: Do not allow tractor to coast with clutch disengaged with transmission in gear, especially in low range. This may result in overspeeding and damage to the clutch.



CAUTION: Fast driving causes many accidents. Adjust your speed always to the terrain features and to the extent of traffic.

HYDRAULIC OIL SUPPLY

The transmission oil pump supplies oil for the main hydraulic pump. Therefore, avoid prolonged disengagement of the engine or PTO clutch, which controls oil pump operation. Disengaging the clutch for long periods reduces supply of pressure oil for hydraulic functions.

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