



Versatile
Operator's Manual
900 Series II

Operator's Manual

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VE-O-900 SII



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SPECIFICATIONS

Horsepower:

- Engine maximum Brake Horsepower at 2400 rpm -- 300 (223,5 kW)

Dimensions:

- Wheel Base -- 130 in. (3,30 m)
- Length Overall -- 253 in. (6,43 m)
- Height Overall -- 130 in. (3,30 m) to top of stack*
- Height to Drawbar -- 18 in. (457 mm)
- Height to Differential -- 23 in. (584 mm)
- Height to Frame -- 22 in. (559 mm)
- Width -- (See Tire Size)

Weight:

- Maximum Operating Weight--28,000 lb. (12,700 kg)
- Recommended Operating Weights Range (most applications)
 - 26,000 - 27,500 lbs.
 - (11,790 - 12,470 kg)

Tire Size and Tractor Width:

18.4 x 38 DUALS

- Between Tread Centers
 - Inner Tires -- 72 in. (1,83 m)
 - Outer Tires -- 118 in. (3,00 m)
- Tractor Width (outsides of tires)
 - Inner Tires -- 90.5 in. (2,30 m)
 - Outer Tires -- 137 in. (3,48 m)

20.8 x 38 DUALS

- Between Tread Centers
 - Inner Tires -- 72 in. (1,83 m)
 - Outer Tires -- 122 in. (3,10 m)
- Tractor Width (outsides of tires)
 - Inner Tires -- 92.75 in. (2,36 m)
 - Outer Tires -- 143 in. (3,63 m)

24.5 x 32 SINGLES

- Between Tread Centers -- 72 in. (1,83 m)
- Tractor Width (outsides of tires) -- 97.25 in. (2,47 m)

30.5 x 32 SINGLES

- Between Tread Centers -- 79.12 in. (2,10 m)
- Tractor Width (outsides of tires) -- 109.72 in. (2,79 m)

Engine Specifications: (naturally aspirated)

- Cummins V-903 V8 Diesel
- Maximum torque -- 706 ft-lb at 1800 rpm (957 Nm)
- Compression ratio -- 16.5:1
- Fan -- 28 in. (711 mm), six-blade sucker type.
- Bore, 5.50 x Stroke, 4.75 in. (139,7 x 120,7).
- Displacement -- 903 cu. in. (14,8 l).
- Idle Speed - 1000 rpm.
- Full - load governed speed - 2400 rpm.
- Full - throttle no-load speed -- 2550 - 2640 rpm.
- Oil cooler and full-flow oil filter with bypass oil conditioner. Oil pan angularity capability - 30° incline.
- Radiator -- 930 sq. in. (6000 cm²), 7 fins per in. (2.8 fins per cm), four-row core, independent surge tank.
- Exhaust -- dual exhaust, rubber-mounted.

CLICK ANYWHERE FOR MORE DETAILS

CONTROLS AND INSTRUMENTS

Before operating your tractor, become familiar with its controls and gauges. The following explanations will help you become completely at home with your machine.



Cab Instrument Panel

FUEL GAUGES (2)

Fuel gauges are located on the instrument panel and on the tank top near the filler neck. Use of the tank-top gauge is recommended when filling.



Fuel Gauges



VOLTMETER (BATT CHGE)

The Voltmeter gives a continuous reading of the tractor electrical system voltage. It monitors the condition of the battery and charging circuits.



Voltmeter

LIGHT SWITCH

The rotary Light Switch has an OFF position and three operating positions. For daylight road travel, turning the knob to the first detent operates the flashing amber cab-roof lights. Turning the knob to the second detent for road travel at night operates the front road lights, the red tail lights, and the flashing amber roof lights. For field work, turning the knob to the last detent lights all of the front and rear working lights.



Light Switch

AIR CLEANER RESTRICTION GAUGE (WATER COLUMN VACUUM)

This gauge indicates whether the filter elements are in satisfactory condition. When the needle indicates greater than a 20-inch (51 cm) reading, the outer filter should be cleaned at the end of the day.



*Air Cleaner
Restriction Gauge*

Controls and Instruments

TRANSMISSION OIL PRESSURE LIGHT

The tractor's transmission is equipped with a pump to pressure-lubricate the transmission bearings and gears. The Transmission Oil Pressure Light indicates that the transmission is not being lubricated and that the pump is not pumping oil to the bearings and gears. The only time the tractor may be operated with the Transmission Oil Pressure Light ON is when the Clutch Pedal is depressed.

KEY SWITCH

The two-position Key Switch opens and closes the engine electric circuits. The ON position energizes the engine shut down system, the fuel injection pump solenoid, and the cab pressurizer fan.

Key Switch



WATER TEMPERATURE GAUGE

The Water Temperature Gauge includes automatic shut-down contacts which shut the engine down if the coolant temperature exceeds 205F (96C). This shut-down feature may be overridden by the Manual Override Button. The normal engine-operating temperature range is 170 - 190F (77 C - 88 C).

Water Temperature Gauge



ENGINE OIL PRESSURE GAUGE

The Oil Pressure Gauge includes automatic shut-down contacts which shut the engine down if the engine-oil pressure drops to 20 psi (1.4 kg/cm² or 138 kPa). This shut-down feature may be overridden by the Manual Override Button.

Oil Pressure Gauge



COLD START (ETHER START)

The Cold Start Knob is a cold weather starting aid (below +50F or 10C). It discharges Ether into the engine intake manifold when pulled. A discharge of 3 seconds is adequate.

Cold Start Knob



PARKING BRAKE LEVER

The Parking Brake Lever is located on the left hand side of the instrument panel. To engage the brake, pull the lever. Adjustment may be made for normal wear by turning the handle clockwise.



Parking Brake Lever