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MANUAL PREVIEW

Versatile

Operator's Manual

850

Series 2

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VE-O-850 SII

Charles Paulson

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SERIES 2 TRACTOR

MANUAL PREVIEW

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SERIAL NUMBER LOCATIONS

IMPORTANT:

When ordering parts, state the serial number of the tractor and/or engine whichever applies. The tractor serial number is stamped on the rear of the front frame section and also appears as a metal tag on the left-hand side of the instrument panel. The engine (Cummins) serial is on a metal tag located on the left side of the engine near the injector pump.

Write your model and serial number information here:

TRACTOR
MODEL 850

SERIAL _____

Frame Stamp

FRAME

ENGINE

SERIAL _____

MAKE CUMMINS

MODEL NT-855

SERIAL _____

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Engine Plate



Cab Plate

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SPECIFICATIONS

DIMENSIONS:

- Wheel Base - 130 in. (3,30 m)
- Length Overall - 253 in. (6,43 m)
- Height Overall - 141 in. (3,58 m)
- 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:

- Approximate weight with various tire sizes: (Weights are measured with 30 gallons fuel, no three-point hitch or rear fenders.)
 - 18.4 x 38 Duals - 20,110 lbs. (9,120 kg)
 - 20.8 x 38 Duals - 20,950 lbs. (9,500 kg)
 - 24.5 x 32 Duals - 22,130 lbs. (10,040 kg)
 - 20.8 x 38 Singles - 18,380 lbs. (8,340 kg)
 - 24.5 x 32 Singles - 19,000 lbs. (8,620 kg)
 - 30.5 x 32 Singles - 19,520 lbs. (8,850 kg)
 - 24.5 x 32 Rice & Cane Singles - 19,695 lbs. (8,705 kg)
 - 30.5 x 32 Rice & Cane Singles - 20,170 lbs. (9,150 kg)
- Recommended Operating Weights Range (most applications) - 26,000 to 27,500 lbs. (11,790 - 12,470 kg)

TURNING RADIUS: (Measured To Outside Of Outer Tire)

- 236 in. (5,99 m) with 18.4 x 38 Duals
- 239 in. (6,06 m) with 20.8 x 38 Duals

- 216 in. (5,48 m) with 24.5 x 32 Singles; 222 in. (5,64 m) with 30.5 x 32 Singles

ENGINE: (Turbocharged)

- Cummins NT-855 In-Line Six Diesel
- Engine maximum brake horsepower @ 2100 rpm (per SAE Standard J-816a) -- 280 (209 kW)
- Maximum torque - 805 ft.lb. @ 1500 rpm (1090 N-m)
- Compression Ratio - 14.1:1
- Bore, 5.50 in. (140 mm) x Stroke, 6.00 in. (152 mm)
- Displacement - 855 cu.in. (14,0 l)
- Idle Speed - 1000 rpm
- Full Load Governed Speed - 2100 rpm
- Full Throttle No-Load Speed - 2250 to 2300 rpm
- Lubrication System - 41 U.S. Qts., 34.1 Imp. Qts. (38,8 l). Full flow oil filter with by-pass oil conditioner and oil to water cooler
- 30° Angularity capability to oil pan
- Mounts - Versatile design, fully rubber mounted

TRANSMISSION:

- Completely rubber-mounted
- Tapered roller bearings 12-speed, fully constant mesh with sliding collars
- Four shafts, 3 in. (76,2 mm) diameter. Pressure lubricated (4 to 15 psi, 28 to 105 kPa)
- Range and Shift Levers
- Helical forward gears, spur reverse gears

CLICK ANYWHERE FOR MORE DETAILS

CONTROLS AND INSTRUMENTS

For safety and ease of operation become familiar with the controls and instruments before operating the tractor. International symbols have been used to ease identification of controls and instruments.



Cab Instrument Panel

if the engine-oil pressure drops to 20 psi (1.4 kg/cm² or 138 kPa). This shut-down feature is overridden by the Manual Override Button.

KEY SWITCH

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

STARTER BUTTON AND MANUAL OVERRIDE

The Starter Button is located on the left-hand side of the steering wheel. Located below the instrument panel is the Manual Override Button. Hold The Manual Override Button in while Starter Button is depressed in order to start the engine, and hold until oil pressure reaches normal.

ENGINE OIL PRESSURE GAUGE

The Oil Pressure Gauge includes automatic shut-down contacts which shut engine down



1. Starter Button
2. Manual Override

Starter Button and Manual Override

AIR CLEANER RESTRICTION GAUGE (WATER COLUMN VACUUM)

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