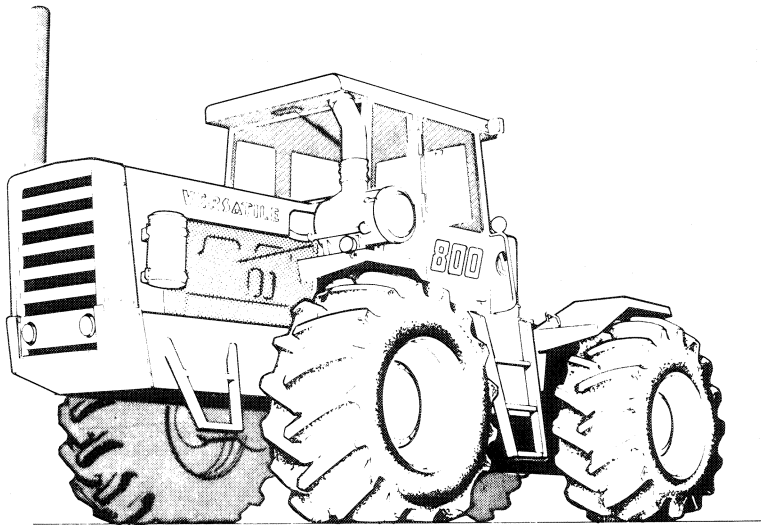


750
SERIES 2

800
SERIES 2

OPERATOR'S MANUAL



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1977

VERSATILE WARRANTY

VERSATILE MANUFACTURING LTD. (VERSATILE) warrants each item of new Versatile equipment sold by it to be free from defects in material and workmanship under normal use and service. The sole obligation of Versatile to the Dealer under this warranty is limited to repairing or replacing, as Versatile may elect, any part or parts that prove in Versatile's judgment to be defective in material or workmanship within one year after delivery to the original purchaser, under normal farm use. Such a defective part or parts will be replaced or repaired ONLY TO THE ORIGINAL PURCHASER, such repair or replacement will be done at the location of the selling Versatile Dealer. Purchaser must give written notice to the Authorized Dealer from whom equipment was purchased of any claimed defect and the Dealer will have a reasonable time under the circumstances then existing to repair or replace said part or parts found to be defective. It is understood that if there is any delay in giving such written notice wherein it is possible that the alleged defective part may have caused damage or defects to other parts of the equipment, then this warranty shall not cover the repairs necessitated therein.

NOTE: THE SOLE REMEDY OF THE PURCHASER FOR BREACH OF THIS WARRANTY IS THE REPAIR OR REPLACEMENT OF DEFECTIVE PARTS.

This warranty does not extend to the engine or tires on Versatile tractors which are manufactured by others, and which carry separate warranties from said manufacturers. There are no representations, warranties, or conditions express or implied, statutory or otherwise, except those herein contained and no agreement collateral otherwise, except those herein contained and no agreement collateral hereto shall be binding upon either party unless in writing hereon or attached hereto, signed by purchaser and accepted by Versatile at its head office.

Versatile's liability under this warranty is limited to the repairing or replacing of parts, and Versatile shall in no event be liable to the Purchaser for consequential damages or loss of profits on crops sustained by it as a result of any defect in material or workmanship on any of the equipment covered by this warranty.

Versatile equipment is warranted for agricultural use only. This Warranty does not cover industrial application. ALTERING, MODIFYING OR ADDING ADDITIONAL EQUIPMENT WHICH IS NOT APPROVED FOR INSTALLATION ON VERSATILE EQUIPMENT BY THE COMPANY WILL VOID THE WARRANTY.

All Warranties are subject to the legislation of the state or province in which the machine is sold.

***THERE WILL BE NO DEVIATION FROM THE PROCEDURE AS OUTLINED*.**

NOTE: THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE BY VERSATILE OR ITS AUTHORIZED DEALER, REGARDING VERSATILE EQUIPMENT EXCEPT THE WARRANTY AGAINST DEFECTS IN MATERIAL OR WORKMANSHIP EXPRESSED HEREIN. NO PERSON IS AUTHORIZED TO BIND VERSATILE FOR ANY OTHER WARRANTY WHATSOEVER.

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INTRODUCTION

We at VERSATILE Manufacturing Ltd. are pleased that you have chosen a VERSATILE Four-Wheel drive Tractor for your farming operation. The founders of VERSATILE have pioneered the development of the four-wheel drive tractor for agricultural use. It has evolved through the ideas and suggestions which have been submitted to us by customers such as yourself.

We ask that you study this manual and adopt the preventative maintenance program outlines in it. Preventative maintenance will provide you with trouble free service for years to come. The suggested schedule has been designed to meet most operating conditions. It may be necessary to adjust your maintenance program to suit your specific operating conditions and to perform the maintenance more often than outlined.

As the purchaser of VERSATILE Four-Wheel Drive Tractor you have also received a Cummins' Operation and Maintenance Manual. We would ask that for maintenance on the engine which is not covered by our tractor manual, you follow the instructions outlined in the Cummins manual. Before placing the tractor in service become familiar with all the procedures described in both the engine manual and the tractor manual.

Review with all operators on a regular basis during the year, the proper and safe way in operating and maintaining the tractor. Any new operators should know the tractor completely before beginning daily operation.

Your dealer is factory-trained to provide you with genuine parts and professional repair service. Consult him regarding your service needs. He is working for you.

SERIAL NUMBER LOCATION

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 console side in the cab. 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 _____

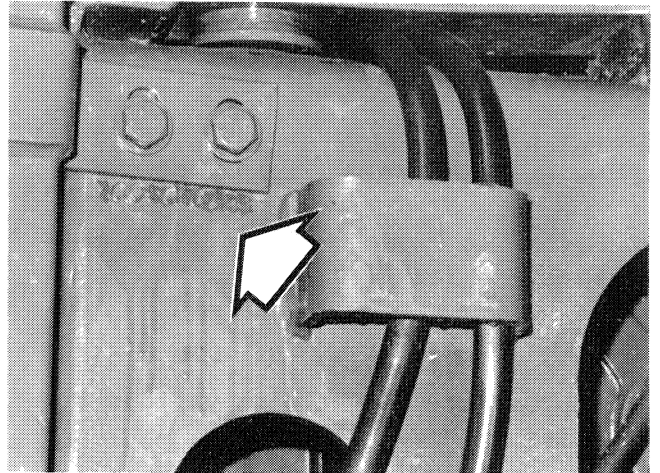
SERIAL _____

ENGINE

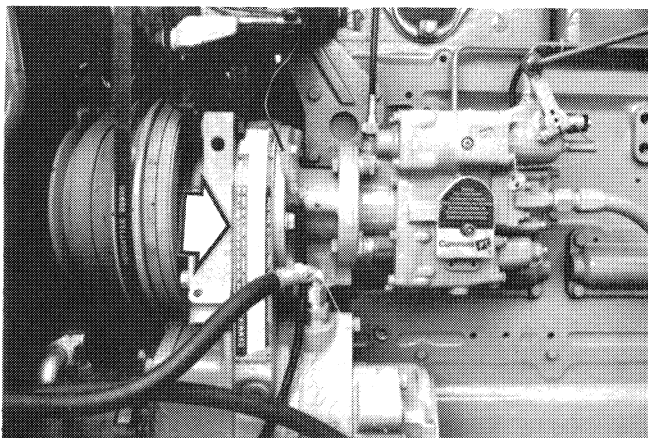
MAKE **CUMMINS**

MODEL _____

SERIAL _____



Frame Stamp



Engine Plate



Cab Plate

SPECIFICATIONS

DIMENSIONS:

- Wheel Base -- 130 in. (3,30 m)
- Length Overall -- 253 in. (6,43m)
- 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 -- Model 750:

18.4 x 38 Duals -- 19,750 lbs. (8,960kg)
20.8 x 38 Duals -- 20,580 lbs. (9,330kg)
20.8 x 38 Singles -- 18,020 lbs. (8,170kg)
24.5 x 32 Singles -- 18,640 lbs. (8,450kg)
30.5 x 32 Singles -- 19,160 lbs. (8,690kg)
24.5 x 32 Rice & Cane Singles -- 18,840 lbs. (8,540kg)
30.5 x 32 Rice & Cane Singles -- 19,810 lbs. (8,980kg)

- Recommended Operating Weights Range For Model 750 (most applications)

-- 23,000 to 25,000 lbs (10,400 - 11,300 kg)

- Approximate weight with various tire sizes -- Model 800:

18.4 x 38 Duals -- 19,830 lbs. (8990kg)
20.8 x 38 Duals -- 20,660 lbs. (9370kg)
20.8 x 38 Singles -- 18,100 lbs. (8210kg)
24.5 x 32 Singles -- 18,720 lbs. (8490kg)
30.5 x 32 Singles -- 19,240 lbs. (8730kg)

24.5 x 32 Rice & Cane Singles -- 18,920 lbs. (8580kg)
30.5 x 32 Rice & Cane Singles -- 19,890 lbs. (9030kg)

- Recommended Operating Weights Range For Model 800 (most applications) -- 24,000 to 26,000 lbs. (10,890 - 11,790 kg)

TURNING RADIUS: (Measured To Outside Of 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 single.

750 ENGINE: (Naturally Aspirated)

- Cummins N-855 -C- 220
- Engine Maximum Brake Horsepower @ 2100 - 220
- Maximum Torque -- 644 ft.lb. @ 1500 rpm (873 N-m)

800 ENGINE: (Naturally Aspirated)

- Cummins N-855 -C- 235
- Engine Maximum Brake Horsepower @ 2100 rpm - 235
- Maximum Torque -- 660 ft.lbs. @ 1500 rpm (895 N-m)

750 AND 800 ENGINE COMMON SPECIFICATIONS:

- Displacement -- 855 cu. in. (14.0 l)
- Bore, 5.50 Stroke, 6.00 in. (140 x 152 mm)
- Idle Speed -- 1000 rpm

- Full-load governed speed -- 2100 rpm
- Full-throttle no-load speed -- 2250 - 2300 rpm
- Lubrication System -- 49 U.S. qt; 41 Imp. qt. (38,8 l). Full flow oil filter with bypass oil conditioner and oil to water cooler, 30 degrees angularity capability 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 94 to 15 psi, (28 to 105 kPa).
- Range and Shift Levers.
- Helical forward gears, spur reverse gears.
- Independent lubrication system with pump, 10 micron filter, cooler steel lines and wire braid hose, dash mounted indicator light.
- Oil capacity - 21 U.S. qts. (18 Imp. qts.) (20.3 l)
- Speeds at 2100 rpm with 24.5 tires, 31.5 in. (800 mm) load radius tires.

750 AND 800 TRACTOR

RANGE	1	2	3	4
1st gear	2.6 mph	3.0 mph	3.5 mph	4.0 mph
2nd	4.7	5.5	6.3	7.3
3rd	9.2	10.7	12.3	14.3
Reverse	3.4	4.1	4.5	5.2

(km/h = mph x 1.6)

CLUTCH:

- Dana Spicer, 14 in. (356 mm), SELF-ADJUSTING two-plate dry type with ceramic button lining, spring-loaded cushion hub discs. Mechanically actuated by foot pedal.

BRAKES:

- Road Brake -- drive-line mounted 15 in. (381 mm). SELF-ADJUSTING disc type. Independent of tractor hydraulic system.
- Parking Brake -- mechanically actuated caliper.

AXLES:

- Spiral-bevel single reduction Eaton differentials with outboard planetary floating ring gear final drives.
- Ratios -- 27.45 axle, 4.88 differential 5.625 planetary.
- Differential mounted in Ductile Casting differential housing.
- Oil capacity - axle 38 U.S. qts. 31.6 Imp. qts. (36 l)

COOLING SYSTEM:

- Capacity -- 49 U.S. qts. 40.81 Imp. qts. (46,4 l)
- Radiator (4 row core) rubber mounted - 930 sq. in. (6,000 cm.sq.)
- Independent surge tank
- Quick removable perforated metal grill screen.
- Fan (6 blade sucker type) 26 in. (660 mm) diameter.

EXHAUST SYSTEM:

- One 8.25 x 11.5 in. (292 m) diameter x 40 in. (10.6 mm) muffler with 5-in. inlet
- Muffler is rubber mounted
- Built in vacuum aspirator for air cleaner can

AIR CLEANER:

- Triphase dry type dual safety element, exhaust aspirated, restriction indicator gauge on instrument panel.

STEERING:

- Articulated frame, 42° left or right. Fully hydrostatic actuation via two, 3 in. cylinders.
- Control Valve -- Ross 5 port design

DRAWBAR:

- Swinging clevis type with wear block. One and one-half in. (38.1 mm) pin with locking lever. Replaceable bushings. Height -- 18 in. (457 mm) to top of main member.

FUEL TANK:

- Capacity, 185 U.S. Gal., 155 Imp. Gal. (700 l)
- Two saddle type low mounted tanks
- Mechanical fuel gauge near filler neck, duplicate electrical fuel gauge in cab.
- Remote breather 24 in. (610 mm) above tank.

FRAME:

- Articulated via two ball bushings between front and sub-frame
- Articulation capability -- 42°
- Oscillation capability -- 15°

ELECTRICAL:

- Two, 8D - 900 Amp batteries. Negative ground. 12-Volt, 75-Amp brushless alternator with built-in voltage regulator. Automatic reset circuit breakers and replaceable fuses, 60-Watt working lamps, two red tail lamps and two warning flashers.

HYDRAULICS:

- Open center. Nominal 23.5 U.S., Imp gpm; (1,48 l/s) for steering. Nominal 8.0 to 23.5 U.S., 6.7 to 19.1 Imp gpm, (0,50 to 1,48 l/s) ± 10% for implements (flow is adjustable from inside the cab).

- Filters -- reusable suction filter on suction line, one replaceable 33 micron filter on return oil line.
- Cooler -- mounted in front of radiator. Swings down for cleaning.
- Implement Control -- built-in flow control. Relief valve (tank mounted) set up 2300 + 50 psi (15.86 MPa + 340 kPa). Two four-way self-cancelling spools set at 2100 + 50 (14,48 MPa + 50 kPa). One four-way spool with float position.
- Couplers -- Pioneer 8200 Series push-to-connect-under-pressure type. 7010-4 male gold colored tipped.
- Capacity -- vented reservoir 74.5 U.S. qts. 62 Imp. qts. (70,5 l) dipstick oil level check and low level sight glass on reservoir.

CAB:

- Fully isolated module rubber mounts. Roll Over Protective Structure (ROPS). Noise isolated. Pressurized and Air Conditioned. Tinted Glass. Bostrom® Seat. Lap type seat belts.

INSTRUMENTS:

- Tachometer, hour meter, voltmeter, air restriction, fuel gauge, engine temperature gauge, oil pressure gauge, transmission oil light, key ignition, starter button, manual safety-switch override button, hazard warning flasher with turn signals, light switch, wiper switch, air conditioner, and warning lights.

AIR CONDITIONER:

- Front-mounted Condensor. Engine-mounted Compressor. Ceiling mounted Evaporator. Temperature and Fan Speed controls. Self-cleaning OUTSIDE cab air filter ejects just when cab door is closed firmly and by gravity.

CAB PRESSURIZER:

- Roof-mounted pressurizer, three speed ceiling-mounted fan. Adjustable ceiling-mounted louvers.
- Adjustable interior air selector.

HEATER:

- Ceiling-mounted core. Variable flow rate. Windshield defrosting louver.

RADIO:

- AM/FM Solid State. Five push buttons with volume and tone controls. Spring mounted telescoping antenna.

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 -- (outside 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 -- (outside of tires)
Inner Tires -- 92.75 in. (2,36 m)
Outer Tires -- 143 in. (3,63 m)

20.9 x 38 SINGLES

- Between Tread Centers -- 72 in. (1,83m)
- Tractor Width (outside of tires) --
92.75 in. (2,36 m)

24.5 x 32 SINGLES

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

30.5 x 32 SINGLES

- Between Tread Centers -- 79.12 in.
(2,01 m)
- Tractor Width (outside of tires) --
109.72 in. (2,79 m)

OPTIONS:

- Three-Point Hitch (category III)
- Tire Sizes: 18.4 x 38 and 20.8 x 38
Duals; 20.8 x 38, 24.5 x 32 and 30.5
x 32 Singles
- Rear Fenders
- No-Spin Differential front only
- No-Spin Differential front and rear
- Engine Coolant Heater
- Spark Arresting Exhaust

TRACTOR SAFETY

Safety is an important part of the farming operation. In practise, safety helps avoid and prevent hurtful and costly accidents. It is the owner's responsibility to ensure all who operate the tractor read the owner's/operator's manual before working on machine. All operators should know the proper procedure to start and stop the tractor; be familiar with all instruments and controls; should know proper procedure to make adjustments; and know proper procedures for everyday use and maintenance. Review with all operators, on a regular basis during the year, the proper and safe way to operate and maintain the tractor. Any new operators should know the tractor completely before beginning daily operation.

The owners/ operators should know their limitations and capabilities. Physical, physiological and psychological factors are important in preventing human error which can cause accidents and injury.

Safety is everybody's business. By using safe working practises accidents can be prevented. Co-operation by all members of the family and/or employees contributes to their own and other's safety. It is important to show concern for others by avoiding riders on tractors, keeping young children away from machines, staying clear of machines being operated by someone else, using hand signals to inform operator to stop or start the tractor, disengaging and shutting off all power-driven machinery, and wearing seat belts in tractor cab at all times.

Safety is doing things right - - not talking about it. Make safety a habit throughout the farming operation.

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