800B Diesel Tractor

Operators Manual

9-423



Reprinted



THIS SAFETY ALERT SYMBOL INDICATES IMPORTANT SAFETY MESSAGES IN THIS MANUAL. WHEN YOU SEE THIS SYMBOL, CAREFULLY READ THE MESSAGE THAT FOLLOWS AND BE ALERT TO THE POSSIBILITY OF PERSONAL INJURY OR DEATH.

M171B

If Safety Decals on this machine use the words **Danger**, **Warning or Caution**, which are defined as follows:

- DANGER: Indicates an immediate hazardous situation which if not avoided, will result in death or serious injury. The color associated with Danger is RED.
- WARNING: Indicates an potentially hazardous situation which if not avoided, will result in serious injury. The color associated with Warning is ORANGE.
- CAUTION: Indicates an potentially hazardous situation which if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices. The color associated with Caution is YELLOW.

If Safety Decals on this machine are ISO two panel Pictorial, decals are defined as follows:

- The first panel indicates the nature of the hazard.
- The second panel indicates the appropriate avoidance of the hazard.
- Background color is YELLOW.
- Prohibition symbols such as





if used, are RED.



IMPROPER OPERATION OF THIS MACHINE CAN CAUSE INJURY OR DEATH. BEFORE USING THIS MACHINE, MAKE CERTAIN THAT EVERY OPERATOR:

- Is instructed in safe and proper use of the machine.
- Reads and understands the Manual(s) pertaining to the machine.
- Reads and understands ALL Safety Decals on the machine.
- Clears the area of other persons.
- Learns and practices safe use of machine controls in a safe, clear area before operating this machine on a job site.

It is your responsibility to observe pertinent laws and regulations and follow Case Corporation instructions on machine operation and maintenance.

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March, 1995 (Revised October, 1997)

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To the Purchaser of a Case Tractor,

The care you give your new Case tractor will greatly determine the satisfaction and service life you will obtain from it. Use this nanual as your guide. By observing the instructions and suggestions n this manual, your Case tractor will serve you well for many years.

As an Authorized Case Dealer, we stock Genuine Case Parts, which are manufactured with the same precision and skill as the original equipment. Our factory trained staff is kept well informed on the best methods of servicing Case equipment and is ready and able to help you.

Should you require additional aid or information, contact us.

Your Authorized Case Dealer

To insure efficient and prompt service, please furnish is with the Model and Serial Number of your tractor in all correspondence or contacts.

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PERIODIC CHECKUPS

Your authorized Case Dealer has the service knowledge necessary to keep your tractor in top running condition.

Arrange to have him check your tractor at regular intervals.

NOTE: The terms "Right Hand" and "Left Hand" whenever used in this manual apply to the tractor when facing in the direction the tractor will move in forward operation.

SERIAL NUMBER

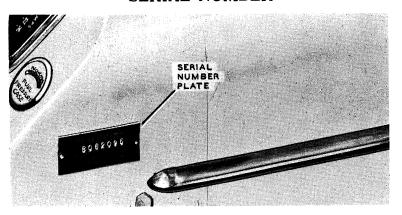


Figure 1. Number Plate on Instrument Panel

When ordering parts from your Authorized Case Dealer and in all contacts or correspondence with your dealer relative to the tractor, always specify the Serial Number and Model of your tractor.

The model and serial number is stamped on the number plate located on the instrument panel Figure 1. The serial number is also stamped on the left rear side of the engine block near the air cleaner, Figure 2.

For reference, fill in the Serial number of your 800 Series Diesel Tractor in the space provided below.

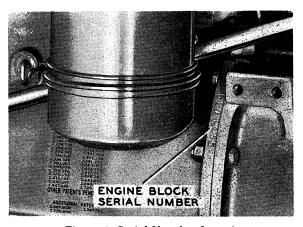
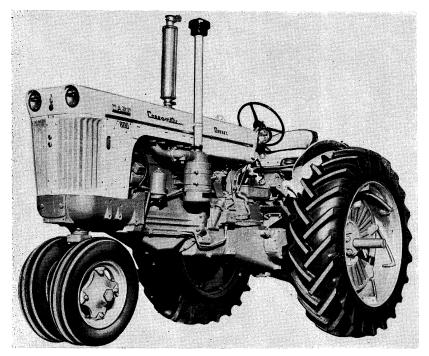


Figure 2. Serial Number Location on Engine Block

Model	Serial No.

INTRODUCTION



800 Series Diesel Tractor

Case:o:matic

Easy handling...comfort...automatic control... an entirely new experience in tractor operation.

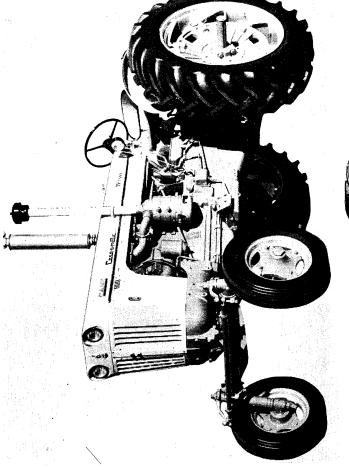
Case-o-matic Drive with its 8 "working ranges" in both Direct and Torque Converter drive give the exact speed for every job on the farm.

Heavy Tillage - Case-o-matic drive allows you to use a higher working range—can be operated in direct drive for maximum speed—simply flip into torque converter drive for additional power necessary to pull up a hill or for heavy draft demands.

Cultivating or Planting - Torque converter drive and tiptoe acceleration give you complete control of travel speed for turning at the head lands or when approaching small plants.

Harvesting - Direct drive may be desirable for most harvesting operations. When heavy crops tend to overload your harvester, flip into torque converter drive and slow down forward speed while engine and PTO RPM stay high to clear the machine.

Hauling and Chore Work - Torque converter drive gives you that smooth easy start when transporting loads in 8th working range—after the load is moving, switch to direct drive for maximum speed.



Sin Sin From Why Why Why

Single
Front
Wheel
Attachment

Dual Front Wheel Attachment

Attachment

Adjustable

GENERAL PURPOSE TRACTOR Front Axle

GENERAL SPECIFICATIONS FOR CASE 800 SERIES DIESEL TRACTORS

ENGINE

General
Type 4 Cylinder, 4 Stroke Cycle,
Valve-in-Head, Diesel Engine
Firing Order
Bore4½ Inches
Stroke
Piston Displacement
Compression Ratio
Cylinder Sleeves
Full Governed Engine Speed at No Load (Approximate)1950 RPM
Full Governed Engine Speed at Full Load
Engine Idling Speed
Valve Tappet Clearance (Both Intake and Exhaust)012 Inch (cold)
Cold Weather Starting Aid Ether Capsule Type Starting Aid
Standard Equipment (Use only 7 CC Capsules)
Diesel Fuel
(Refer to Fuel Specification Section)
Piston Rings
Rings Per Piston4
Number of Compression Rings
Number of Oil Rings
Piston Pins
Type PinsFull Floating Type
Connecting Rods
Type Bearings Replaceable Precision, Steel Back,
Copper-Lead Alloy Liners
Main Bearings
Number of Bearings5
Type Bearings
Copper-Lead Alloy Liners

Engine Lubricating System
Oil Pressure
Type SystemForced Circulation
Oil Pump Gear Type, Floating Oil Screen Inlet
Oil Filter
Fuel Injection System
Fuel Injection Pump
Pump Timing
(Port Closing)
Fuel Injectors Robert Bosch, Throttling Pintle Type;
(Opening Pressure 1850 to 2000 Pounds
Per Square Inch)
Fuel Transfer Pump Plunger Type, Integral Part of Injection Pump
Governor
Type; Integral Part of Injection Pump
Fuel Filters
Fuel StrainerFine Mesh Screen Type; Located in Fuel
Tank Filler Opening; Removable for Cleaning
1st Stage Fuel Filter Replaceable Element Type
2nd Stage Fuel Filter Replaceable Element Type
Final (3rd Stage) Fuel FilterReplaceable "Sealed Type" Filter
Fuel Tank BreatherLocated in Filler Cap;
Element Removable for Cleaning
Fuel Tank Water Trap and DrainLocated in Base of Fuel Tank
Fuel Gauges
Fuel Tank Level GaugeLocated on Instrument Panel
Pressure Gauge Located on Instrument Panel. Indicates Condition of
Fuel Filters (Standard Equipment)

COOLING SYSTEM

Type of SystemPressurized, Thermostat Controlled By-Pass Type; Forced Circulation (Impeller Type Pump)
Radiator
Radiator Shutters
ELECTRICAL SYSTEM
Type of System
Batteries
(Group 4, 19 Plates, 150 Ampere Hours at 20 Hour Rate) Generator
Voltage Regulator
Starting Motor
Sealed from Dust in Clutch Housing
Headlights
Rear Light Combination Red Tail Light for Safe Night Road Travel and White Flood Light for Night Work
Rear Light Bulb SizesLarge — 32 C.P. Single Contact 12 Volt
Small — 1 C.P. Single Contact 12 Volt
Instrument Panel Light Bulb Size 4 Bulbs, 1.5 C.P. Single Contact, 12 Volt
Fuse
Electrical Outlet Socket 12 Volt; For Auxiliary Tail Light on Implements
or Trailers and for Plugging in a
12 Volt Battery Charger, etc.
12 Volt Red Warning LampFor Use with Electrical Outlet Socket
(Extra Equipment) and Pull Behind Equipment
CASE-O-MATIC DRIVE
Main Powr-Clutch Multiple Disc, Hydraulically Actuated,
Engages Engine and Torque Converter with Transmission
Direct Drive Powr-Clutch Single Disc, Hydraulically Actuated, Engages Engine Directly with Main
Powr Clutch and Transmission, By-
Passing Torque Converter
Type Torque Converter
Transmission Case
Containing All Gears, Shafts, Bearings, Differential and Final Drive
Transmission 8 Forward Work Ranges and 2 Reverse
Final Drive

DRAWBAR

Type
Mounted, Self-Locking
Drawbar Pin Hole Size
Height Adjustment
BRAKES
Type Heavy Duty, Double Disc
Self Energizing Differential Brakes
Brake Pedals
Can Be Used Individually for Steering Assistance
BELT PULLEY (Extra Equipment)
Method of EngagingPTO Clutch Hand Lever
Pulley Diameter
Pulley Face Width
Pulley Speed at No Load
Governed Engine Speed at 1950 RPM
Pulley Speed at Full Load
Governed Engine Speed of 1800 RPM
Pulley Speed at 600 RPM Engine
Idling Speed
Belt Speed
Ratio Engine Speed to Belt Pulley Speed 1.596 to 1
INDEPENDENT POWER TAKE-OFF
(Extra Equipment
Rotation
PTO Shaft Speed at 1450 Engine RPM540 RPM
PTO Shaft Speed at 600 RPM Idle Speed
Spline SizeStandard 13/8 Inch Diameter
Location on Tractor
Distance from Center of PTO Shaft to
top of Drawbar
Method of EngagingPTO Clutch Hand Lever
Type PTO Clutch Oil Bath, Multiple Disc, Over
Center Adjustable Type
With Cone Brake
Fluid Recommendation Automatic Transmission Fluid - Type A

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