

1470 Tractor

Operators Manual

9-2073

Reprinted





This symbol means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED. The message that follows the symbol contains important information about your safety. Carefully read the message. Make sure you fully understand the causes of possible injury or death.

SB001

IF THIS MACHINE IS USED BY AN EMPLOYEE, IS LOANED, OR IS RENTED, MAKE SURE THAT THE OPERATOR UNDERSTANDS THE TWO INSTRUCTIONS BELOW.

BEFORE THE OPERATOR STARTS THE ENGINE:

1. GIVE INSTRUCTIONS TO THE OPERATOR ON SAFE AND CORRECT USE OF THE MACHINE.
2. MAKE SURE THE OPERATOR READS AND UNDERSTANDS THE OPERATOR'S MANUAL FOR THIS MACHINE.



WARNING

IMPROPER OPERATION OF THIS MACHINE CAN CAUSE INJURY OR DEATH.

BEFORE STARTING THE ENGINE, DO THE FOLLOWING:

1. READ THE OPERATOR'S MANUAL.
2. READ ALL SAFETY DECALS ON THE MACHINE.
3. CLEAR THE AREA OF OTHER PERSONS.

LEARN AND PRACTICE SAFE USE OF MACHINE CONTROLS IN A SAFE, CLEAR AREA BEFORE YOU OPERATE THIS MACHINE ON A JOB SITE.

It is your responsibility to observe pertinent laws and regulations and to follow manufacturer's instructions on machine operation and maintenance.

See your Authorized Case dealer for additional operator's manuals, parts catalogs, and service manuals.

TO THE PURCHASER OF A CASE TRACTOR

The care you give your Case Tractor will greatly determine the satisfaction and service you will obtain from it. Use this manual as your guide. By observing the instructions and suggestions in 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.

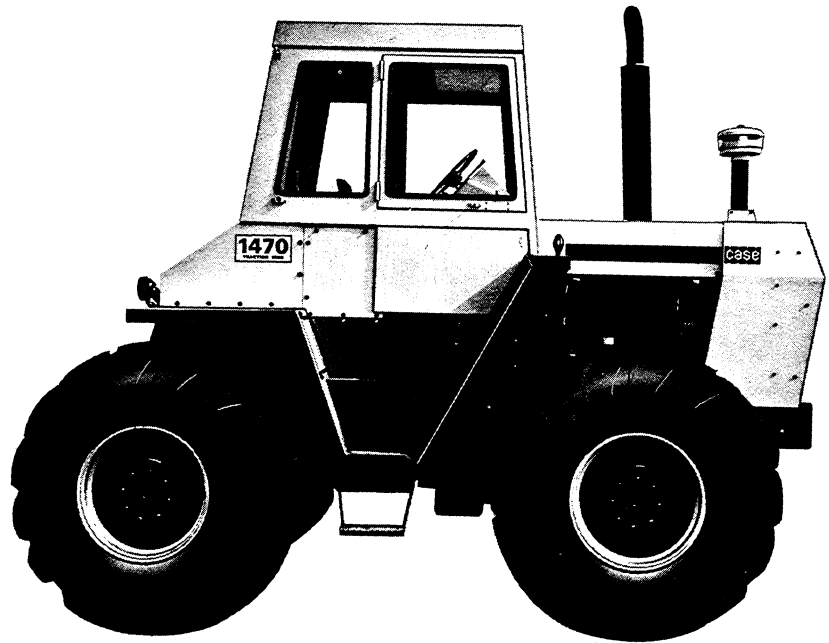
Should you require additional aid or information, contact us.

Your Authorized Case Dealer



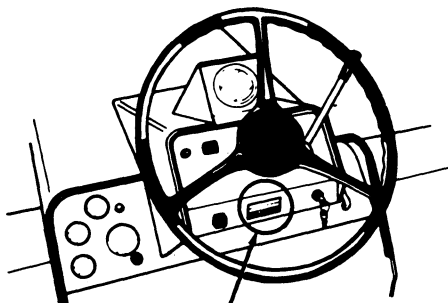
**LOOK FOR THIS SYMBOL TO POINT
OUT IMPORTANT SAFETY PRECAUTIONS.
IT MEANS - ATTENTION! BECOME ALERT!
YOUR SAFETY IS INVOLVED.**

**TO INSURE EFFICIENT AND PROMPT SERVICE, PLEASE
FURNISH US WITH THE MODEL, SERIAL, ENGINE, AXLES
AND TRANSMISSION SERIAL NUMBERS OF YOUR TRACTOR
IN ALL CORRESPONDENCE OR CONTACTS.**

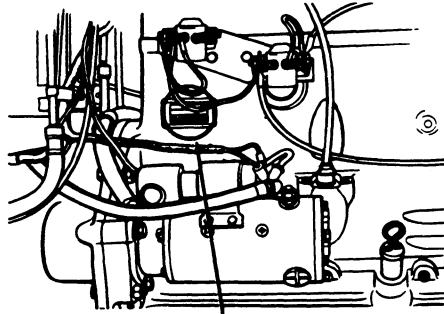


SERIAL NUMBERS

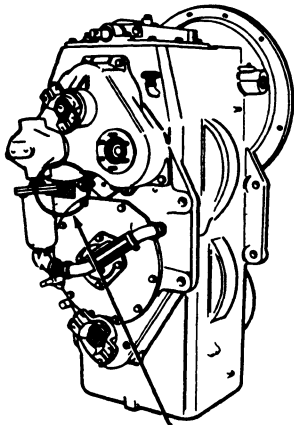
When ordering parts from your Authorized Case Dealer and in all contacts or correspondence with your dealer, relative to your Case Tractor, always specify the Model, Tractor Serial Number, Engine, Transmission and Axle Serial Numbers.



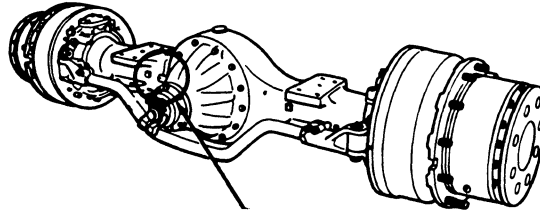
TRACTOR SERIAL NUMBER



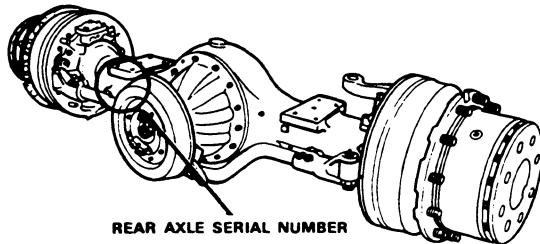
ENGINE SERIAL NUMBER



TRANSMISSION SERIAL NUMBER



FRONT AXLE SERIAL NUMBER



REAR AXLE SERIAL NUMBER

For convenient reference, fill in the Serial Numbers of your tractor in the spaces provided below.

MODEL DESIGNATION _____
TRACTOR SERIAL NUMBER _____
ENGINE SERIAL NUMBER _____
TRANSMISSION SERIAL NUMBER _____
FRONT AXLE SERIAL NUMBER _____
REAR AXLE SERIAL NUMBER _____

NOTE: The terms "Right Hand" and "Left Hand" whenever used in this manual, apply to the tractor as viewed when seated in the operator's seat facing the forward direction of travel.

Diesel Engine

SPECIFICATIONS

General

| | |
|---|--|
| Type | 6 Cylinder, 4 Stroke Cycle, Valve-in-Head Turbocharged Diesel Engine |
| Firing Order | 1-5-3-6-2-4 |
| Bore | 4-5/8 Inches (117.5mm) |
| Stroke | 5 Inches (127mm) |
| Piston Displacement | 504 Cubic Inches (8 257cm ³) |
| Compression Ratio | 16.5 to 1 |
| Cylinder Sleeves | Removable Wet Type |
| No Load Governed Speed | 2160 RPM |
| Rated Engine Speed | 2000 RPM |
| Engine Idling Speed | 750 RPM |
| *Valve Tappet Clearance (Exhaust) | (Hot) .020 Inch (0.508mm) |
| | (Cold) .025 Inch (0.635mm) |
| | (Intake) (Hot and Cold) .015 Inch (0.381mm) |

***Hot Settings Are Made After The Engine Has Operated At Thermostat Controlled Temperature For At Least Fifteen Minutes.**

Piston and Connecting Rod

| | |
|-----------------------------------|---|
| Rings per Piston | 3 |
| Number of Compression Rings | 2 |
| Number of Oil Rings | 1 |
| Type Pins | Full Floating Type |
| Type Bearings | Replaceable Precision, Steel Back with Aluminum or Copper-Lead Alloy Liners. |

Main Bearings

Number of Bearings 7
Type Bearings Replaceable Precision, Steel Back
with Aluminum or Copper-Lead Alloy Liners.

Engine Lubricating System

| | |
|--------------------|---|
| Oil Pressure | 45 to 55 PSI (3.2 to 3.9 kg/cm ²) Operating at Rated Engine Speed. |
| Type System | Pressure and Spray Circulation |
| Oil Pump | Gear Type |
| Oil Filter | Full Flow Spin on Type |
| Oil Capacity | Prior to Engine S.N. 2503651 With Filter, 13 U.S. Quarts (12.3 liters) W/O Filter, 12 U.S. Quarts (11.4 liters) |
| Oil Capacity | Beginning With Engine S.N. 2503651 With Filter, 17 U.S. Quarts (16.1 liters) W/O Filter, 15 U.S. Quarts (14.2 liters) |

Fuel System

| | |
|--------------------------------------|--|
| Fuel Injection Pump | Robert Bosch, Type PES (Multiple Plunger). |
| Pump Timing | 29 Degrees Before Top Dead Center (Port Closing). |
| Fuel Injectors | Pencil Type Opening Pressure 3200 PSI (225 kg/cm ²) |
| Fuel Transfer Pump | Plunger Type, Integral Part of Injection Pump. |
| Governor | Variable Speed, Fly-Weight Centrifugal Type; Integral Part of Injection Pump. |
| 1st Stage Fuel Filter | Full Flow Spin on Type |
| 2nd Stage Fuel Filter | Full Flow Spin on Type |
| Hand Primer Pump | Located on Fuel Filter Head |
| Fuel Tank Water Trap and Drain | Located in Base of Fuel Tank. |
| Fuel Tank Capacity | 100 U.S. Gallons (378.5 liters) |
| Fuel Level Gauge | Float, Located on Top of Fuel Tank |

general specifications

Cooling System

Capacity 40 U.S. Quarts (37.9 liters)
Type of System Pressurized, Thermostat Controlled
By-Pass Type; Forced Circulation
(Impeller Type Pump).
Radiator Heavy Duty Fin and Tube Type
Thermostat Starts to Open At Approximately 179°F. (82°C.)
Fully Open at 202°F. (94°C.).
Pressure Cap 7 PSI (0.492 kg/cm²)

Electrical System

Type of System 24 Volt Negative Ground
Batteries (12 Volt Batteries Connected in Series Group Size
30H, Rated at 1.255 to 1.265 Specific Gravity.
Discharge Rate 300 Amps at 0°F. Voltage drops
to 9.2 after 10 seconds. Voltage drops 1.0 Volt
per cell after 5 minutes.
Alternator 24 Volt 35 Amp Output
Voltage Regulator 24 Volt, Transistor
Starter Motor 24 Volt with Solenoid Switch
Lights (4) Front Driving and Flood ... 24 Volt 50 Watt, Sealed Beam
Lights (2) Rear Flood 24 Volt 50 Watt, Sealed Beam
Amber Warning Lights (2) 24 Volt, Double Face, Flasher Type
Rear Warning Lights (2) .. 24 Volt, Combination Stop and Tail Light

Parking Brake

Type Cable Actuated by Orscheln Type Handle-
Adjustable from Operator's Seat.

Hydraulic Brakes

Type Hydraulic, Self Adjusting
Caliper Disc Type.

Transmission

Type Constant Mesh, Mechanical
Gear Selection 8 Speed Forward - 4 Speeds Reverse
Shifting Mechanical With Shifter Forks
and Shifter Hubs.

Power Steering

Front Steering Hydrostatic
Rear Steering Single Double Acting Cylinder,
With Dual Cylinders Available.
Pump Capacity at 2000 Engine RPM 12.5 GPM (47.3 l/mn)
Relief Valve Pressure 1350 to 1450 PSI (94.9 to 101.9 kg/cm²)
Flow Divider Valve at 2000 RPM
Front Steering 6 GPM (22.7 l/mn) at 1700 PSI (119.5 kg/cm²)
Rear Steering 6.5 GPM (24.6 l/mn) at 1000 PSI (70.3 kg/cm²)

Remote Hydraulic System

Pump Positive Gear Type, Continuous Running
Type Valve Dual Valve-Individual Hand Lever Control
Portable Cylinder Coupling Case Quick Detachable
Break-away Type
Pump Capacity at 2000 Engine RPM 15.5 GPM (58.7 l/mn)
Relief Valve Pressure 1900 to 2050 PSI (133.6 to 144.1 kg/cm²)
Portable Cylinders Available

Power Take-Off

Type Clutch Mechanically Operated
Rotation Clockwise
Spline Size 21 Splines 1-3/8 Inch (34.9mm) Dia.
Engine Speed 2000 RPM 1000 RPM Shaft Speed

3 Point Hitch System

Type Control Hand Lever with Adjustable Stops
Type Valve 3 Positions - Raise - Hold - Lower
with Speed Control
Type Draft Arms Swinging with Manual Float Adjustment
Type Hitch 3 Point Category III

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