

1200 Tractor

Operators Manual

Starting with SN 9806321

Rac 9-1982

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   and  if used, are RED.



WARNING

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.

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 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

To insure efficient and prompt service, please furnish us with the Model, Serial, Engine, Transmission, PTO and Axle Numbers of your Tractor in all correspondence or contacts.

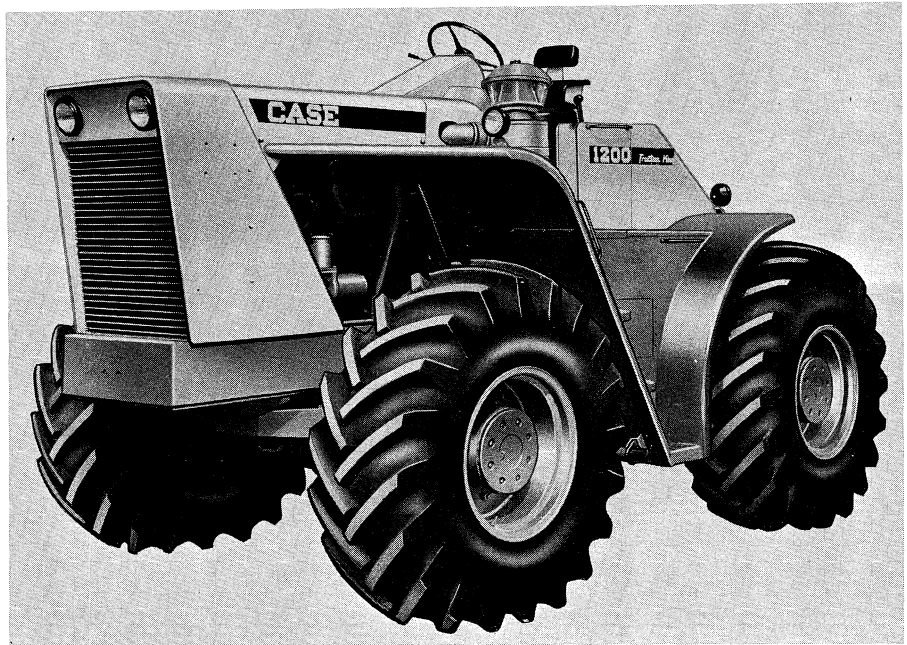


Figure 1. Left Side View of Tractor

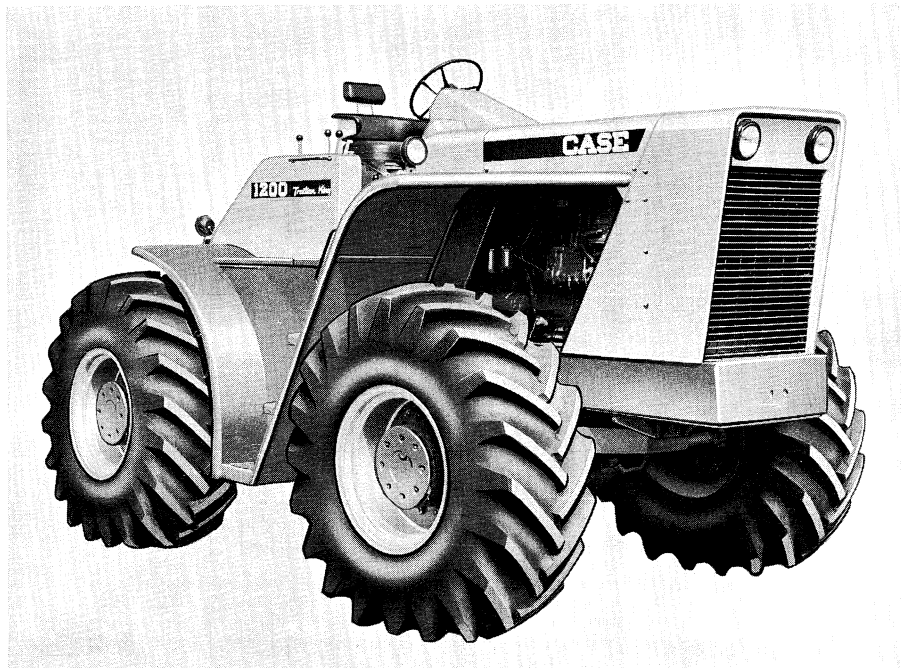


Figure 2. Right Side View of Tractor

SERIAL NUMBER

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

The Model and Serial Numbers are stamped on the plate located on the instrument panel, Figure 3. The Engine Number is stamped on a plate located on the right side of the engine block, Figure 4. The Transmission Number is located on the rear of the transmission. The Axle Model Numbers are located on the axle housings. The PTO Serial Number Plate is located on the rear of the PTO housing.

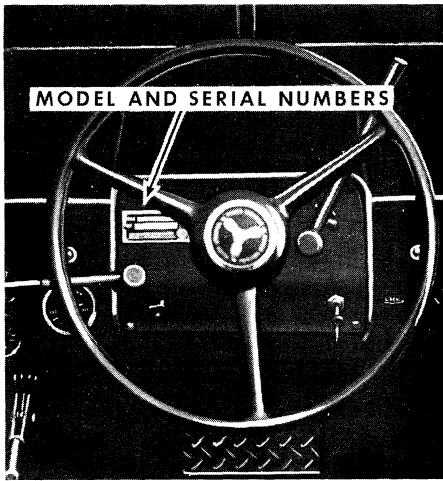


Figure 3

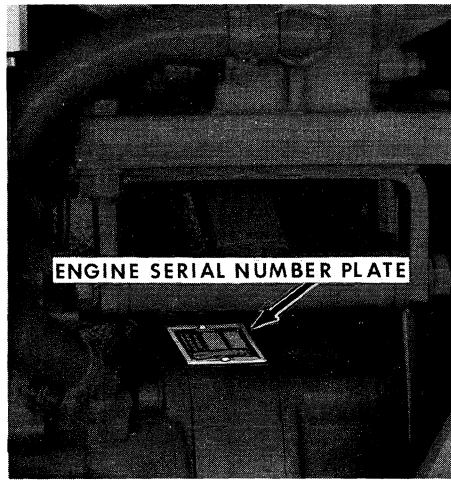


Figure 4

NOTE The terms "Right Hand" and "Left Hand", whenever used in this manual, refer to the machine as viewed when seated in the operator's seat.

For convenient reference fill in the following Model and Serial Numbers:

Model Number _____

Engine Number _____

Tractor Serial Number _____

Transmission Serial Number _____

Front Axle Serial Number _____

Rear Axle Serial Number _____

PTO Serial Number _____

451 Diesel Engine

SPECIFICATIONS

General

Type ----- 6 Cylinder, 4 Cycle, Valve-
In-Head Turbocharged Diesel
Engine.
Firing Order ----- 1-5-3-6-2-4
Bore ----- 4-3/8 Inches
Stroke ----- 5 Inches
Piston Displacement ----- 451 Cubic Inches
Compression Ratio ----- 15 to 1
Cylinder Sleeves ----- Removable Wet Type
No Load Governed Engine Speed ----- 2160 RPM
Rated Engine Speed ----- 2000 RPM
Engine Idling Speed ----- 750 RPM
*Valve Tappet Clearance (Intake and Exhaust) ---- .020 Inch Hot
Cold Weather Starting Aid ----- Electric Manifold Heater.
Diesel Fuel Recommendation ----- Number 2 Diesel Fuel
Air Cleaner ----- Oil Bath Type

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

Piston and Connecting Rods

Number of Compression Rings ----- 3
Number of Oil Rings ----- 1
Piston Pins ----- Full Floating Type
Connecting Rod Bearings ----- Replaceable Precision Steel
Back, Copper - Lead Alloy
Liners.

Main Bearings

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

Engine Lubricating System

Oil Pressure ----- 40 to 50 Pounds with Engine
Warm and Operating at Rated
Engine Speed.

Engine Lubricating System (Continued)

Type System ----- Forced Circulation
Oil Pump ----- Gear Type, with
Screen.
Oil Filter ----- Full Flow With Replaceable
Element.

Fuel Injection System

Fuel Injection Pump ----- Robert Bosch, Type PES
(Multiple Plunger).
Pump Timing ----- 31 Degrees Before Top Dead
Center (Port Closing).
Fuel Injectors ----- Robert Bosch, Throttling
Pintle Type (Opening Pressure
2350 PSI.)
Fuel Transfer Pump ----- Plunger Type, Integral Part
of Injection Pump.
Governor ----- Variable Speed, Fly Weight
Centrifugal Type; Integral Part
of Injection Pump.

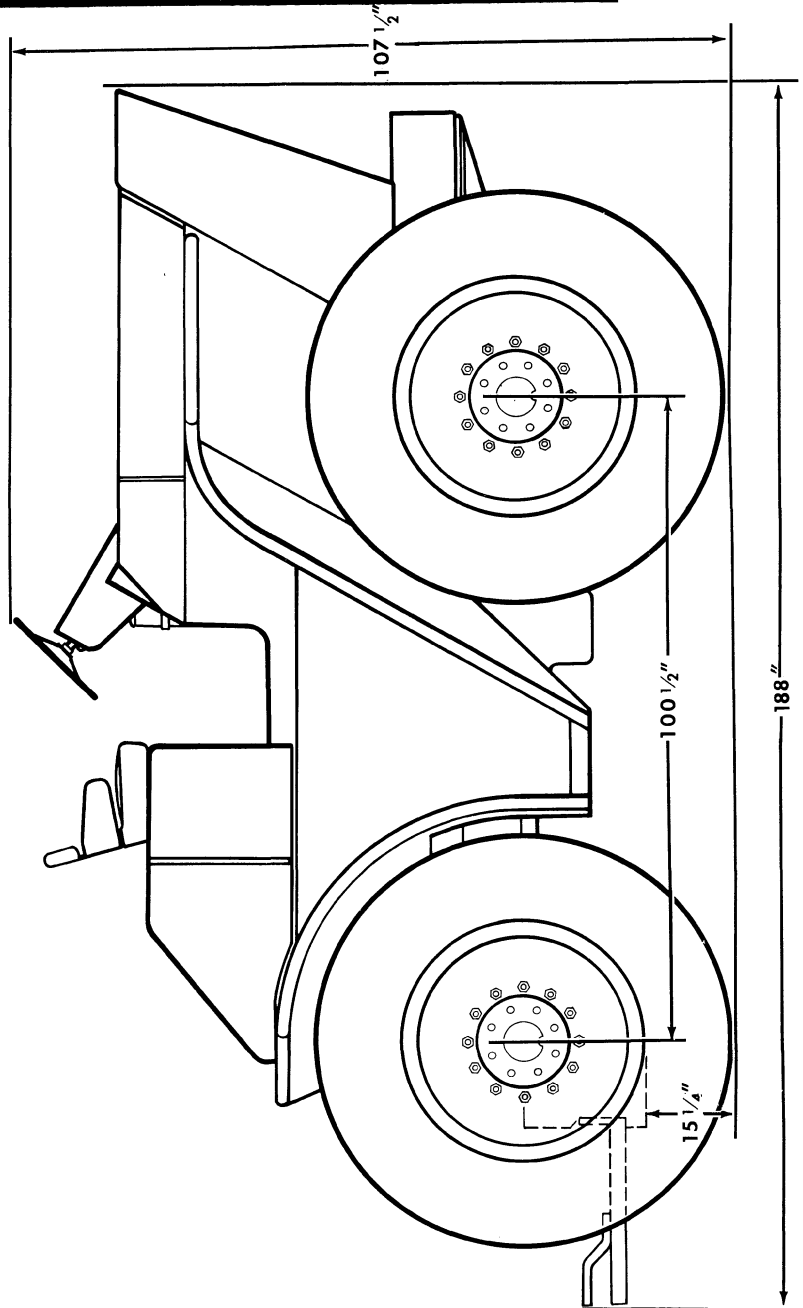
Fuel Filters

1st Stage Fuel Filter ----- Replaceable Element Type
2nd Stage Fuel Filter ----- Replaceable Element Type
Final (3rd Stage) Fuel Filter -- Replaceable "Sealed Type" Filter
Fuel Tank Water Trap and Drain -- Located in Base of Fuel Tank

Fuel Gauge and Fuel Tank

Fuel Tank Level Gauge ----- Located on Top of Fuel Tank
Fuel Tank Capacity ----- 90 U. S. Gallons

general specifications



Overall Measurements

Height over Steering Wheel ----- 107-1/2"
Width over Tires (18.4 x 34) ----- 96"
Overall Length ----- 188"
Wheel Base ----- 100-1/2"
Ground Clearance ----- 15-1/4"
Approximate Weight ----- 15,000 lbs.
Tread - Front & Rear ----- 77"

Turning Radius

Minimum Turning Radius ----- 16' 6"

Wheels, Tires and Pressures

Both Front & Rear 6 ply ----- 18.4 x 27 -- 18 PSI
Both Front & Rear 6 ply ----- 18.4 x 34 -- 18 PSI
Both Front & Rear 8 ply ----- 23.1 x 26 -- 18 PSI
Both Front & Rear 10 ply ----- 18.00 x 26 -- 20 PSI
Wheel Lug Nut Torque ----- 250 ft. lbs.

Power Train

Transmission ----- Constant Mesh
8 Speeds in Forward
4 Speeds in Reverse

Axles & Planetary ----- Spiral Bevel with Planetary
Reduction in Hub.

Approximate Travel Speeds

FORWARD

First ----- 2.46
Second ----- 3.14
Third ----- 4.10
Fourth ----- 5.22
Fifth ----- 6.54
Sixth ----- 8.36
Seventh ----- 10.88
Eighth ----- 13.93

REVERSE

First ----- 3.82
Second ----- 4.87
Third ----- 10.16
Fourth ----- 12.95

NOTE MPH RATINGS ARE TAKEN WITH 18.4 x 34 TIRE AND AT
RATED ENGINE SPEED. NORMAL TRANSPORT SPEEDS
ARE 10% HIGHER.

Cooling System

Type of System ----- Pressurized Thermostat Controlled By-Pass Type; Forced Circulation (Impeller Type Pump).
Capacity ----- 11 U. S. Gallons
Radiator ----- Heavy Duty Fin and Tube Type
Thermostat ----- Starts to Open at Approximately 180°F.; Fully Open at 200°F.
Radiator Shutter ----- Available as Extra Equipment
Pressure Cap ----- 7 PSI
When using a proper operating 7 PSI pressure cap, the engine temperature can rise to 230°F.

Electrical System

Type of System ----- 24 Volt, Negative Ground
Batteries ----- Two 12 Volt Type 14H-90, 90 Ampere Hrs. at 20 Hour Rate.
Alternator ----- 24 Volt 45 AMP
Voltage Regulator ----- Transistor
Cranking Motor ----- 24 Volt
Circuit Breaker ----- Protects the Electrical System from Overloads

Power Take-Off

Rotation ----- Clockwise
PTO Shaft Speed at 2000 Engine RPM ----- 1000 RPM
Spline Size (21 Spline) ----- 1-3/8 Inch Dia.

Hydraulic System

Pump ----- Gear Type Driven from Transmission
Reservoir ----- Electric Welded Steel Tank; Oil Level Dip Stick & Dual Full Flow Filters
Control Valve ----- Two Spool, Three Position Extend, Neutral and Retract
Relief Valve Pressure ----- 1500 PSI

3 Point Hitch System

Type of Control ----- Control Lever
Type of Valve ----- 3 Position - Raise, Hold, Lower With Speed Control.
Type Hitch Arms ----- Swinging with Manual Float Adjustment.
Type Hitch ----- Three Point Category II

fuel specifications

DIESEL

Case Diesel engines are designed to operate most efficiently when using a number 2 Diesel Fuel. Most well known refiners and distributors market a good grade of Diesel Fuel and there should be no difficulty in obtaining it.

Do not confuse number 2 Diesel Fuel with number 2 Furnace Oil, as this does not always meet the fuel specifications for diesel engines.

Specifications

For Sutable Number 2 Diesel Fuel

A.P.I. Gravity (Minimum) ----- 30
Pour Point (Maximum) ----- 10° Fahrenheit below
ambient operating temperature

DISTILLATION:

90% Point ----- 540° - 625° Fahrenheit
End Point ----- 675° Fahrenheit
FLASH POINT (Minimum) ----- 125° Fahrenheit or legal
Kinematic Viscosity,
centistokes @ 100° Fahrenheit ----- 2.0-4.3 Seconds*
Cetane No. (Minimum) ----- 40 (45-55 For winter or high
altitude use)

Water and Sediment Vol. (Maximum) ----- .05%
Ash, wt. (Maximum) ----- .01%
Sulphur wt. (Maximum) ----- .5%
Carbon Residue on 10% (Maximum) ----- .2%
Corrosion, Copper Strip,
3 hrs. @ 212° Fahrenheit ----- No. 3

(*32-40 Saybolt Universal Seconds)

NOTE The use of number 1 Diesel Fuel, which is a lighter fuel, may result in a loss of engine power and also increased fuel consumption because it has less heat content and a lower viscosity than number 2 Diesel Fuel.

The life of the injection pump may also be affected because of the lack of lubricant in the lighter number 1 Diesel Fuel.

FUEL CONDITIONER

The following "Fuel Conditioner" recommendations are made for areas troubled with gum and varnish in the fuel:

1. Obtain a "Case Fuel Conditioner" and use it as follows:

A. Add it to the fuel in the main storage tank.

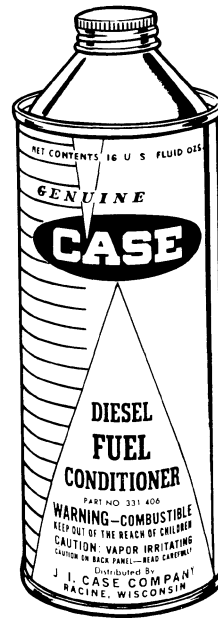
OR

B. Add a small quantity to the Tractor fuel tank daily.

OR

C. Use the "Conditioner" periodically, or when any symptoms develop in the engine that indicate gum and varnish deposits in the Fuel System.

NOTE Refer to the instructions furnished with the "Conditioner" as to the amount that should be used.

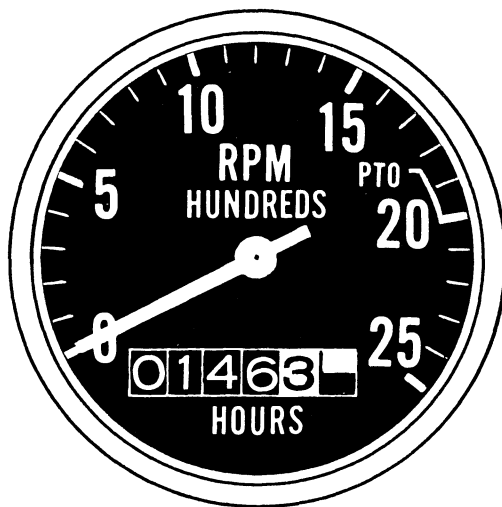


IMPORTANT

1. Buy Fuel in quantities that will be used up in 90 days or less.
2. Protect main storage tank with a shelter so the fuel can be kept as cool as possible.

Lubrication

Lubricating your Case Diesel Tractor will require only a few minutes of regular daily attention. Wherever possible, automatic lubrication or prepacked bearings, have been provided to reduce the demand made on the operator's time.



Engine Hour Meter

To assure maximum engine service and complete satisfaction, two factors must be observed.

1. Have a regular schedule of inspection and lubrication. All time intervals in the Lubrication Section and the Preventive Maintenance Section of this manual are based on Hour Meter readings. Reading the Hour Meter provided on your Tractor will tell you when to service it.
2. Use only high quality oil and grease of unvarying specifications. Always buy from a reliable dealer who handles reputable, well-known brand lubricants. Use only oil and grease of the specifications recommended in this manual.

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