

1070 Tractor

Operators Manual

9-4422

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.



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.

Tractor accidents kill a number of people in the United States every year. Studies show that 6 in 10 tractor fatalities result from upsets.

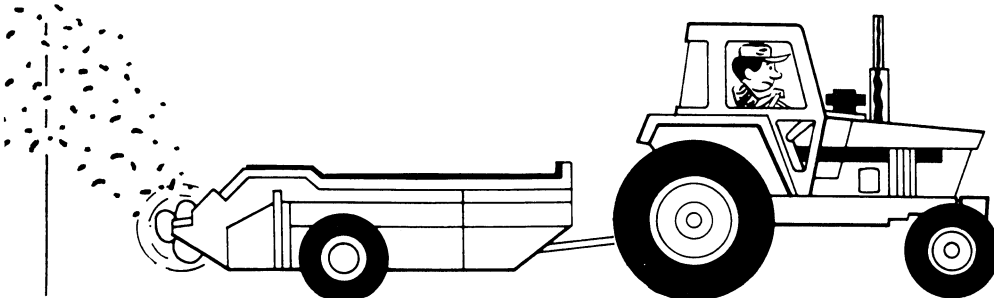
Stability is still a very important factor in safety. Let's face it - tractors must be built higher than automobiles to provide the ground clearance necessary in performing their intended function. The use of a tractor over irregularities in the fields calls for careful handling and using good common sense.

Speed is an important element in tractor stability. Speed brings us back to you, the operator. Only you can hold down your speed to match conditions. Think ahead - drive defensively. Equip your tractor with a Case ROPS system available as a factory or field installed option from your Case dealer.

We at Case are continuing to contribute to your safety in two ways: by building tractors with an extra measure of protection and comfort . . . and by passing on these suggestions for safer operation.



Before starting the engine, place all controls in neutral. This will ease starting loads on the starter and batteries and will eliminate the accidental start up of PTO driven equipment.

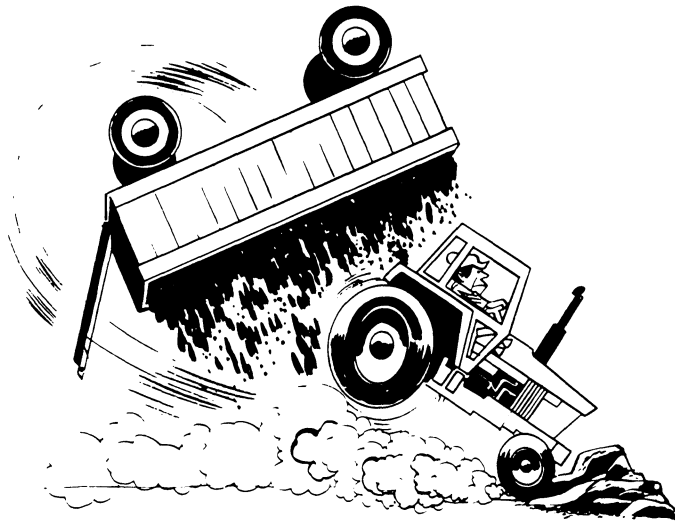


Before leaving the tractor, stop the engine, place all controls in neutral and set the parking brake.




⚠ Engine starting and control operation must be performed from the operators seat only.

⚠ Tractor travel speed should be such that complete control and tractor stability is maintained at all times. There is potential danger in maneuvering around ditches, gullies, slopes, uneven ground, holes and rocks.




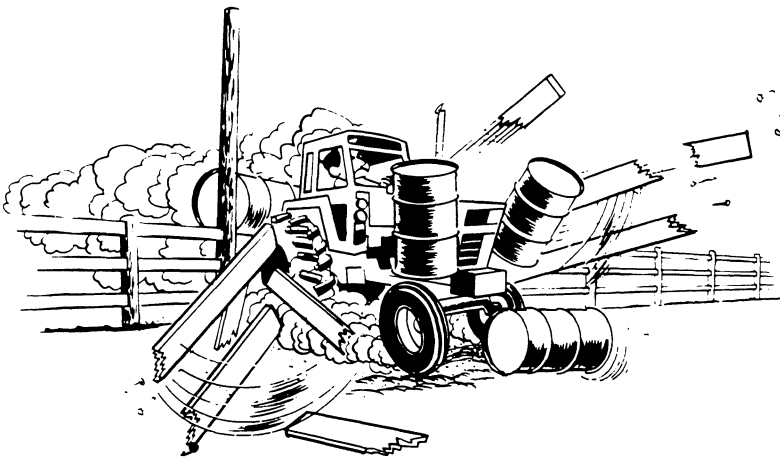
⚠ Brake pedals must be locked together for road travel. This will insure uniform brake application and maximum stopping ability.

⚠ Excess tractor speed is the big killer. Only experienced drivers should be permitted on highways. Use SMV safety emblem and lights for adequate warning to the operators of other vehicles. In this regard, check local government regulations.

 Stop, look and listen before entering a highway, stay on your side of the road and pull over to let faster traffic pass. Slow down and signal as you turn off. Shift down before you start up or down a hill with a heavy load. Avoid “free-wheeling”.



 Extra weight increases your braking distance. Remember that liquid in the tires, weights on the tractor or wheels, tanks filled with fertilizer, herbicides or insecticides - all these add weight and increase the distance you need in which to stop.



⚠ Keep shields over moving parts. Disengage the PTO before dismounting. Stop the tractor engine before working on a PTO-driven machine. Wear close fitted clothing. Any unguarded shaft, pulley, sprocket or moving part is potentially dangerous.



⚠ Hitch to the drawbar, or to other specified hitch points. If you hitch to the axle - or anywhere that's too high - the front end will come up FAST and you have only 7/10 of a second to de-clutch!, or prevent an upset.



Try to balance the load primarily on the implement wheels - as in loading a trailer or spreader. Avoid overloading the draw-bar. Add front end weights for improved stability. Engage the clutch smoothly, avoid jerking and use the brakes cautiously to avoid jack-knifing.



Only one person - the operator - should be permitted on a tractor when it is in operation.



Never operate the engine in a closed building. Proper ventilation is required under any circumstances.





Never service or make adjustments to the tractor with the engine running or with the tractor in motion.



Never refuel the tractor when the engine is hot or running.



Never smoke while refueling the tractor, servicing the fuel system, checking the batteries or using cold weather starting aids.



Add coolant to the radiator only when the engine is stopped or slowly idling. To avoid being scalded when the pressure - type filler cap is being removed, turn the cap slowly to the first stop position to relieve pressure before removing the cap.



It is good practice to carry a fire extinguisher on the tractor. Be sure that the extinguisher is properly maintained and be familiar with its proper use.



Provide a first-aid kit for use in case of accident.

TO THE PURCHASER OF A CASE TRACTOR

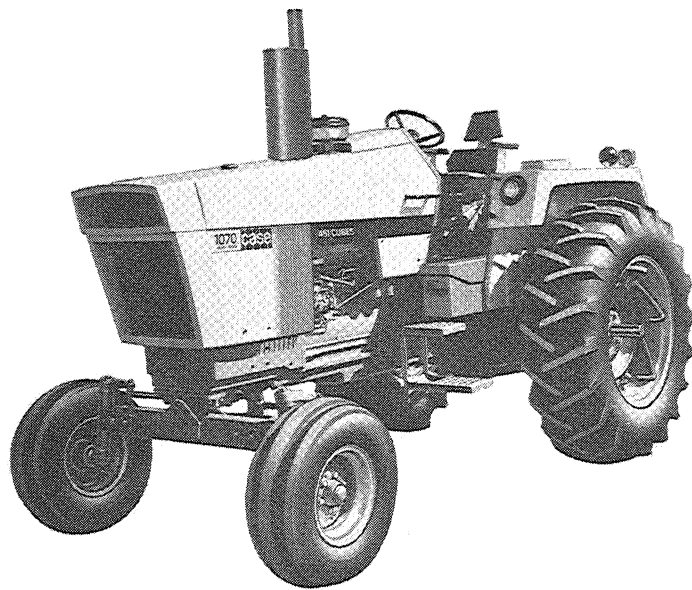
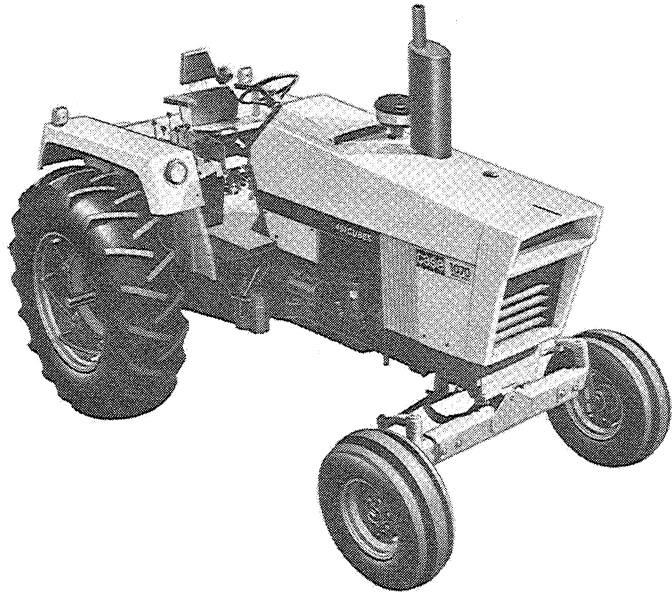
The care you give your Case Tractor will greatly determine the satisfaction and service life you will obtain from it. Use this manual as your guide. By observing the instructions and suggestions in this manual, your Case Tractor will serve you well for many years.

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.

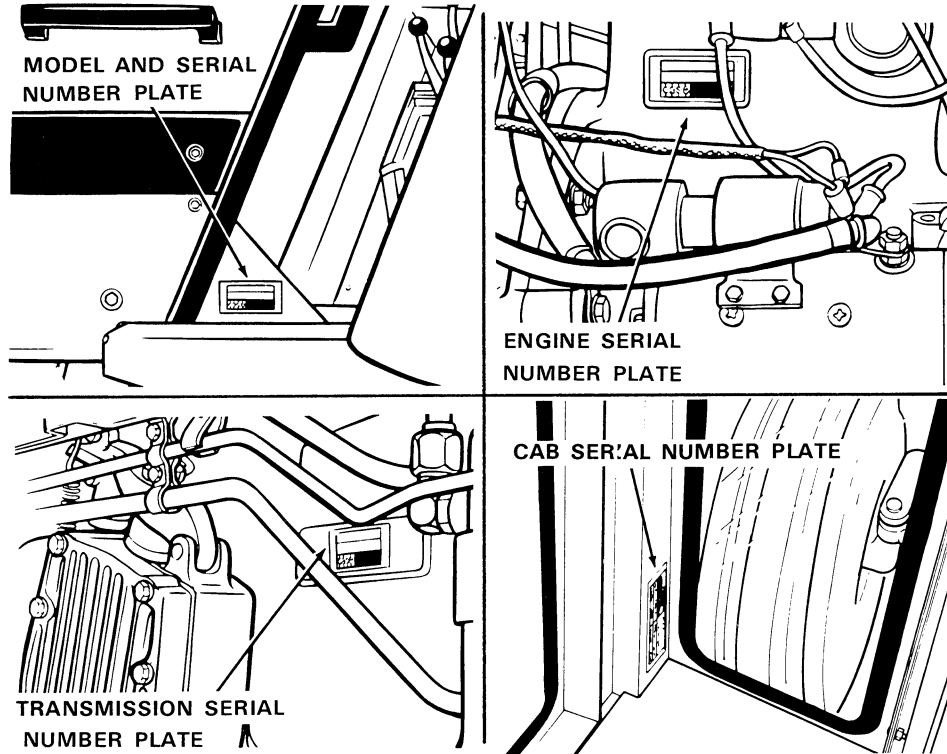
YOUR AUTHORIZED CASE DEALER

TO INSURE EFFICIENT AND PROMPT SERVICE, PLEASE FURNISH US WITH THE MODEL, SERIAL, ENGINE, TRANSMISSION AND CAB 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 Cab Serial Numbers.



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 _____
CAB 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.
Firing Order ----- 1-5-3-6-2-4
Bore ----- 4-3/8 Inches (111mm)
Stroke ----- 5 Inches (127mm)
Piston Displacement ----- 451 Cubic Inches (7390.6cm³)
Compression Ratio ----- 16.5 to 1
Cylinder Sleeve ----- Removable Wet Type
No Load Governed Speed ----- 2260 RPM
Rated Engine Speed ----- 2100 RPM
Engine Idling Speed ----- 725 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 Rods

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

Main Bearings

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

Engine Lubricating System

Oil Pressure ----- 45 to 55 PSI (3.2 to 3.9 kgs/cm²) with Engine Warm and Operating at Rated Engine Speed

Oil System ----- Pressure and Spray Circulation

Oil Pump ----- Gear Type

Oil Filter ----- Full Flow Spin on Type

Fuel System

Fuel Injection Pump ----- Robert Bosch, Type PES (Multiple Plunger).

Pump Timing ----- 30 Degrees Before Top Dead Center (Port Closing).

Fuel Injectors ----- Pencil Type
Opening Pressure 3200 PSI (225 kg/cm²)

Fuel Transfer Pump ----- Plunger Type, Integral Part of Injection Pump.

Governor ----- Variable Speed, Fly-Weight Centrifugal Type; Integral Parts of Injection pump.

1st Stage fuel filter ----- Full Flow Spin on Type

2nd Stage fuel filter ----- Full Flow Spin on Type

Fuel Tank Water Trap and Drain ---- Located in Base of Fuel Tank

Fuel Tank Capacity ----- 50 U.S. Gallons (189.3 liters)

Fuel Level Gauge ----- Electric, Located on Instrument Panel.

Hand Primer Pump ----- Located On Top of The Fuel Transfer Pump

Preliminary Fuel Filter ----- Located At The Bottom of the Fuel Transfer Pump

general specifications

Cooling System

Oil Cooler Transmission, Hydraulics, Steering
and Brakes (Located Front of Radiator).
Capacity 40 U.S. Quarts (37.9 liters)
Type of System Pressurized, Thermostat Controlled
By-Pass Type: Forced Circu-
lation. (Impeller Type Pump).
Radiator Heavy Duty Fin and Tube Type
Thermostat Starts to Open at Approximately 175°F. (79°C.)
Fully Open at 202°F. (94°C.)
Pressure Cap Required 14 PSI (0.984 kg/cm²)

Electrical System

Type of System 12 Volt Negative Ground
Batteries (2) 12 Volt Batteries Connected
in parallel.
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 4 min
Alternator 12 Volt 55 Amp Output
Voltage Regulator 12 Volt, Solid State,
Mounted on Alternator.
Starter Motor 12 Volt with Solenoid Switch
Head Lights (2) 12 Volt, 40/40 Watt Sealed High-Low Beam
Flood Lights (2) 12 Volt, 35 Watt, Sealed Beam
Amber Warning Lights (2) 12 Volt, Double Face, Flasher Type
Rear Tail Light 12 Volt, 60 Watt Sealed Beam
Combination Tail and Flood Lamp.
Circuit Breaker System over load check - 12 Volt Twin 40 AMP
Breakers connected in parallel, 80 AMP rating.
60 AMP. Min. Continuous capacity.
Lights Circuit Breaker 40 AMP., Located on Light Switch
Parking Brake Warning Light 12 Volt, Red Flasher Type



Our support email:

ebooklibonline@outlook.com