970 Tractor

Operators Manual

9-2812

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.



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.

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TO THE PURCHASER OF A CASE TRACTOR

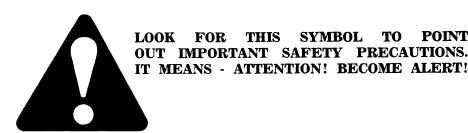
The care you give your Case Tractor will greatly determine the satisfaction and service life you will obtain from it. Use this manual as your guide. By observing the instructions and suggestions in this manual, your Case Tractor will serve you well for many years.

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

POINT



TO INSURE EFFICIENT AND PROMPT SERVICE, PLEASE FURNISH US WITH THE MODEL SERIAL, ENGINE, ENGINE TRANS-MISSION AND CAB SERIAL NUMBERS OF YOUR TRACTOR IN ALL CORRESPONDENCE OR CONTACTS.

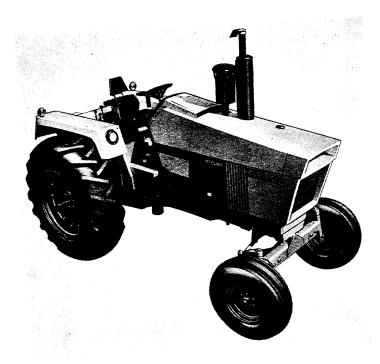


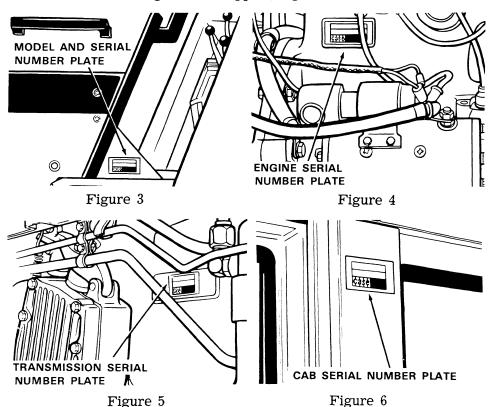
Figure 1



Figure 2

SERIAL NUMBER

The Model and Serial Numbers are stamped on the number plate located on the outside and lower left hand side of the wire wall asembly, Figure 3. The Engine Serial Number is stamped on a plate fastened to the rear right hand side of the engine block, Figure 4. The transmission Serial Number is stamped on a plate and fastened to the right hand side and to the front of the axle on the transmission housing, Figure 5. The Cab Serial Number is stamped on a plate fastened to the inside right hand support, Figure 6.



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.

For 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
Cah Sarial Number

Diesel Engine

SPECIFICATIONS

General

	6 Cylinder, 4 Stroke Cycle, Valve-in-Head.
Firing Order	varve-in-fleau. 1-5-3-6-2-4
	4-1/8 Inches (104.7mm)
	5 Inches (127mm)
	401 Cubic Inches (6 571.2cm ³)
	16.5 to 1
	Removable Wet Type
	eed 2160 RPM
	2000 RPM
Engine Idling Speed	725 RPM
*Valve Tappet Clearan	ce (Exhaust) (Hot) .020 Inch (0.508mm)
	(Cold) .025 Inch (0.635mm)
	(Intake) - (Hot and Cold) .015 Inch (0.381mm)
	ade After The Engine Has Operated At Ther- Temperature For At Least Fifteen Minutes.
Piston and Cor	necting Rods
Rings per piston	
Number of Compression	on Rings
Number of Oil Rings	1
	Full Floating Type
Type Bearing	Replaceable Precision, Steel
	Back, Copper-Lead or Aluminum Alloy Liners
Main Bearings	•
Number of Bearings -	······································
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 kg/cm²) with Engine Warm and Operating at Rated Engine Speed
Type 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 2800 PSI (196.9 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
∠nd 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.
Fuel Tank Filter Located in Fuel Shut-off Valve in Base of Fuel Tank.

spark ignition engines

SPECIFICATIONS

G	е	r	ì	е	r	а	ı

	6 Cylinder, 4 Stroke Cycle, Valve-in-Head. 1-5-3-6-2-4
Poro	4 Inches (101.6mm)
	5 Inches (127mm)
	7.5 to 1
Distan Displacement	377 Cubic Inches (6178cm ³)
	311 Cubic filenes (01/8Cm²)
Governed Speed	2004 9100 DDM
No Load Governed	Speed 2180 RPM
Rated Engine Speed	2000 RPM
Engine Idling Speed	
*Valve Tappet Clearan	ce (Intake) (Hot and Cold) .015 Inches (0.381mm)
(Ex	haust) (Hot) .020 Inches (0.508mm)
	rs Positive Type
Exhaust Valve Rotato	rs Positive Type
	ade After The Engine Has Operated At Ther- emperature For At Least Fifteen Minutes.
Piston and Co	nnecting Rods
Rings per Piston	4
Rings per Piston Number of Compressi	on Rings 3
Rings per Piston Number of Compressi Number of Oil Rings	on Rings 3
Rings per Piston Number of Compressi Number of Oil Rings Type Pin	on Rings 3 Full Floating Type
Rings per Piston Number of Compressi Number of Oil Rings Type Pin	on Rings
Rings per Piston Number of Compressi Number of Oil Rings Type Pin	on Rings 3 Full Floating Type
Rings per Piston Number of Compressi Number of Oil Rings Type Pin	on Rings
Rings per Piston Number of Compressi Number of Oil Rings Type Pin Type Bearings Main Bearings	on Rings 3 Full Floating Type Replaceable, Precision Steel Back, Copper-Lead or Aluminum Alloy Liners.
Rings per Piston Number of Compressi Number of Oil Rings Type Pin Type Bearings Main Bearings Number of Bearings	on Rings
Rings per Piston Number of Compressi Number of Oil Rings Type Pin Type Bearings Main Bearings Number of Bearings	on Rings 3 Full Floating Type Replaceable, Precision Steel Back, Copper-Lead or Aluminum Alloy Liners.

Engine Lubricating System

Oil Pressure 45 to 55 PSI (3.2 to 3.9 kg/cm²) Engine Warm and Operating at Full Governed RPM.
Type System Pressure Spray Circulation
Oil Pump Gear Type
Oil Filter Full Flow, Spin on Type
Fuel System
Fuel Tank Capacity 50 U.S. Gallons (189.3 liters)
Carburetor (Zenith) (w/solenoid) 1-1/2 Inch SAE Flange (38mm).
Fuel Pump and Screen A.C. Vacuum Type, Camshaft Actuated.
Distributor Ignition
Contact Point Gap020 Inches (0.508mm)
Dwell Angle 390
Spark Plugs Prestolite 18 8
Plug Gap 025 Inches (0.635mm)
Thread 18 MM
Shank Length 1/2 Inch (12.7mm)
Engine Timing
Static Timing TDC
Running Timing Engine Running at Rated Engine Speed: 270 BTDC

general specifications

Cooling System

Capacity 38 U.S. Quarts (36 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 195°F. (91°C) Full Open at 202°F. (94°C.)
Pressure Cap Required
Type of System 12 Volt Negative Ground Batteries (2) 12 Volt Batteries Connected in parallel.
(Spark Ignition) - Group Size 27H, Rated at 1.255 to 1.265 Specific Gravity, Discharge Rate 300 Amps at 0° F., Voltage drops to 8.7 after 10 seconds, Voltage drops to 1.0 volts per cell after 3-1/2 minutes.
(Diesel) - 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 Volts per cell after 4 min.
Alternator 12 Volt 55 Amp Output
Alternator 12 Volt 55 Amp Output Voltage Regulator 12 Volt, Solid State, Mounted on Alternator.
Starter Motor 12 Volt with Solenoid Switch
Starter Motor 12 Volt with Solenoid Switch Head Lights (2) 12 Volt, 35 Watt, Sealed Beam
Flood Lights 12 Volt, 35 Watt, Sealed Beam
Amber Warning Light 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 30 Amp., Located on Light Switch Parking Brake Warning Light 12 Volt, Red Flasher Type

Parking Brake

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

Hydraulic Brakes

Type ----- Hydraulic Actuated, Self-Adjusting Disc Type Differential Brakes.

Hydraulic Power Assist Brakes

Type ------ Hydraulic, Power Assisted, Self-Adjusting Disc Type Differential Brakes.

Mechanical Transmission

Power Shift Transmission

Power Take-Off

Type Clutch]	Hydraulically Operated
Rotation		Clockwise
		s 1-3/8 in. (34.9mm) s 1-3/8 in. (34.9mm)
Engine Speed 1900 R	PM 540 c	r1000 RPM Shaft Speed
Belt Pulley		
Method of Engageme	nt	PTO Control Lever
Pulley Diameter		10.5 in. (266.7mm)
Pulley Face Width -		7.25 in. (184.2mm)
Ratio Engine RPM:		
(540 PTO)		1.716 to 1
(1000 PTO)		1.722 to 1
1 RPM of Belt Pu	lley 2.75	feet (8.4m) Per Minute Belt Travel.
Drawbars		
Standard or Yoke T	ype Full Swinging Accommodate a 1-1/4	g Roller Mounted. Will Inch (31.8mm) Dia. Pir.

Draft-O-Matic System

Type of Sensing Lower Link
Type Control Hand Lever
Type Valve 3 Positions - Raise - Hold - Lower
Type Draft Arms Swinging, with Manual Float Adjustment
Type Hitch 3 Point Category II

Hydrostatic Power Steering

Pump Type ----- Large Volume, Spur Gear, Continuous Running.

Pump Capacity at 1900 Engine RPM ----- 7 GPM (26.5 l/mn)

Hand Pump Type ----- Gerotor Bi-Directional, Driven By the Steering Wheel.

Actuating Cylinders ----- 2 Way Cylinders Are Integral Part of Steering Gear Mechanism.

Remote Hydraulic System



Our support email: ebooklibonline@outlook.com