

**430-530
Tractors
SN 8262800 to 8297801
Operators Manual**

9-1682

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 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 and Engine Numbers of your Tractor in all correspondence or contacts.

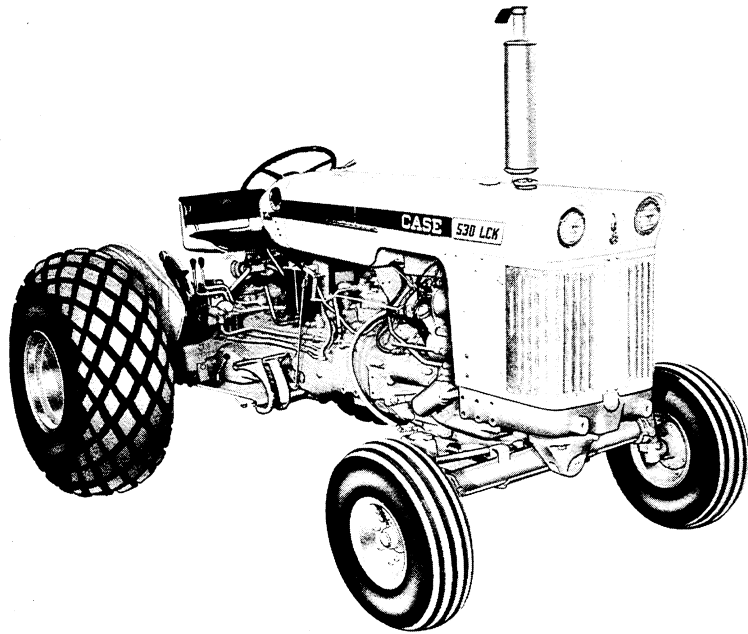


Figure 1. Low Center King Tractor

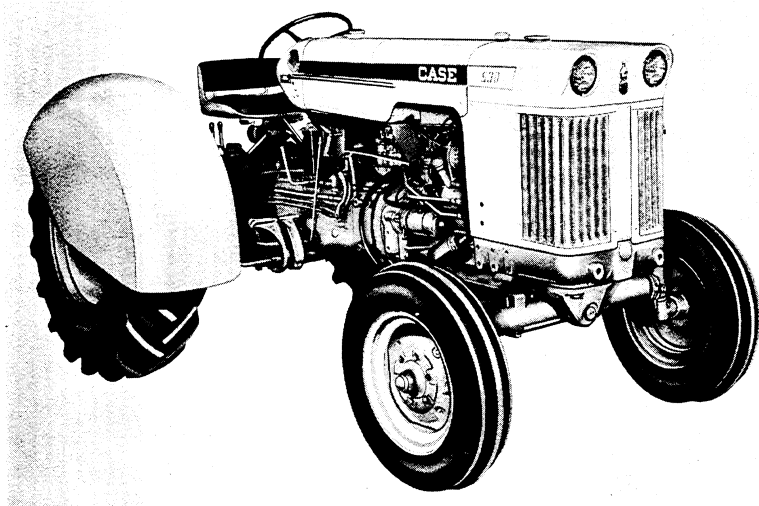


Figure 2. Standard Tractor w/Grove Fenders

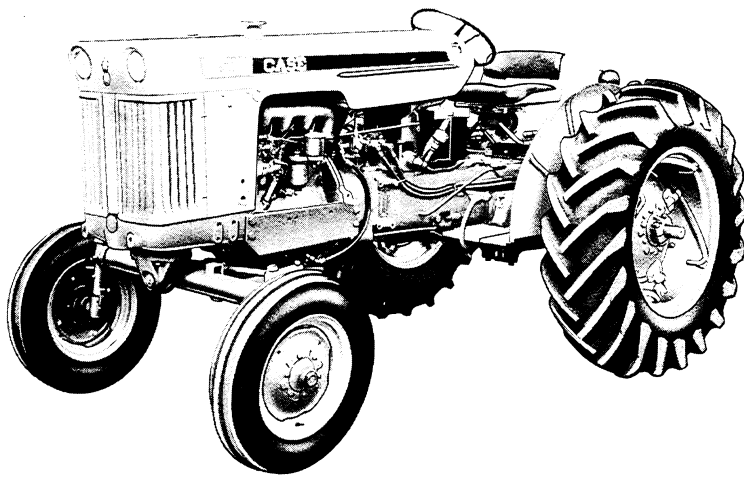


Figure 3. General Purpose Tractor w/adj.Front Axle

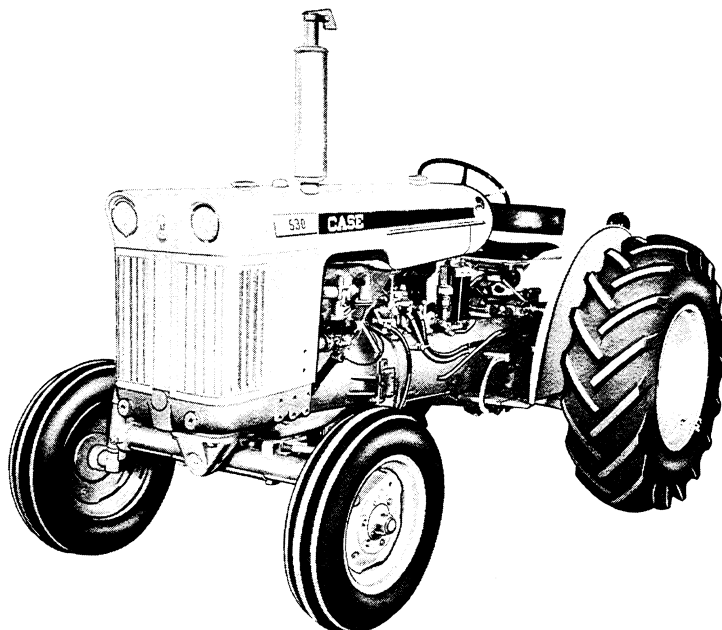


Figure 4. Standard Tractor

SERIAL NUMBER

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

The Model and Serial Numbers are stamped on the number plate located on the instrument panel. See Figure 5. The Engine Number is stamped on a plate fastened to the right hand side of the engine below the starting motor, Figure 6.



Figure 5

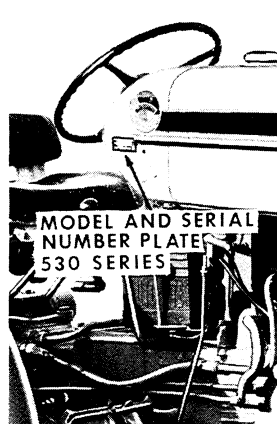


Figure 6

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 Number, Model Number and Engine Number of your Tractor in the spaces provided below.

Model Number

Engine Number

Serial Number

Model Designations

Abbreviations

430, 440, 530 and 540 -- Standard ----- Std.
431, 441, 531 and 541 -- General Purpose ----- GP
435, 445, 535 and 545 -- Low Center King ----- LCK

188 diesel engine

SPECIFICATIONS

General

Type ----- "Case" Open Chamber Combustion-
4 Cyl. - Valve in Head.
Firing Order ----- 1-3-4-2
Cylinder Bore ----- 3-13/16"
Stroke ----- 4-1/8"
Piston Displacement ----- 188 Cu. In.
Compression Ratio ----- 17.5 to 1
*Valve Clearance (Intake and Exhaust) ----- .014 (Hot)
Cylinder Sleeves ----- Wet Type Replaceable
Engine Idle Speed ----- 600 RPM
Full Load Speed (430 Series) ----- 1750 RPM
Full Load Speed (530 Series) Standard Clutch ----- 1900 RPM
Full Load Speed (530 Series) Case-O-Matic ----- 2100 RPM
No Load Speed (430 Series) ----- 1900 RPM
No Load Speed (530 Series) Standard Clutch ----- 2060 RPM
No Load Speed (530 Series) Case-O-Matic ----- 2250 RPM
Air Cleaner ----- Oil Bath Type
Cold Weather Starting Aid ---- Electric Heater - Manifold Type
Fuel Recommendation ----- No. 2 Diesel Fuel

Piston and Connecting Rods

Compression Rings ----- 2
Oil Rings ----- 1
Piston Pins ----- Full Floating Type
Connecting Rod Bearings ----- Replaceable Precision
Steel Back Aluminum
Liners.

Main Bearings

Number of Main Bearings ----- 5
Type Bearings ----- Replaceable Precision
Steel Back Aluminum
Liners.

*Hot Settings Are Made At Low Idle After the Engine has Operated
At Thermostat Control Temperature For at Least Fifteen Minutes.

Engine Lubricating System

Oil Pressure ----- 50 to 70 Lbs. with Engine Warm and
Operating at Full Governed RPM.

Type System ----- Gear Type Pump
With Floating Intake
Screen.

Fuel System

Fuel Injection Pump ----- Roosa - Master
Fuel Injectors ----- (Long Stem Multi-
Hole) C.A.V.

Fuel Injectors Opening Pressure ----- 2225 to 2275
Fuel Transfer Pump ----- Vane Type (Integral
Part of Injection Pump).

Governor ----- Mechanical, Flyweight,
(Integral Part of Injection
Pump).

Primary Fuel Filter ----- Replaceable Element Type

Final Filter ----- Replaceable Filter Type

Fuel Gauge (530 Series) --- Electrical, Located on Instrument Panel

Fuel Tank Water Trap and Drain ----- Bottom of Fuel Tank

Fuel Tank Capacity (430 Series) ----- 13 Gallons
(530 Series) ----- 22 Gallons

148 gasoline engine

SPECIFICATIONS

General

Type ----- 4 Cylinder, 4 Cycle
Valve in Head.
Firing Order ----- 1-3-4-2
Cylinder Bore ----- 3-3/8 Inches
Stroke ----- 4-1/8 Inches
Piston Displacement ----- 148 Cubic Inches
Compression Ratio ----- 7 to 1
Exhaust Valve Rotators ----- Positive Type
*Valve Clearance (Intake and Exhaust) ----- .014" (Hot)
Cylinder Sleeves ----- Wet Replaceable Type
Engine Idle Speed ----- 600 RPM
Full Load Speed (430 Series) ----- 1750 RPM
No Load Speed (430 Series) ----- 1960 RPM
Air Cleaner ----- Oil Bath Type

Piston and Connecting Rods

Compression Rings ----- 3
Oil Rings ----- 1
Piston Pins ----- Full Floating Type
Connecting Rod Bearings ----- Replaceable Precision
Steel Back, Aluminum
Liners.

Main Bearings

Number of Bearings ----- 3
Type of Bearings ----- Replaceable Precision
Steel Back, Intermediate
Copper-Lead Liners.

Engine Lubricating System

Oil Pressure ----- 24 to 32 Lbs. With Engine
Warm and Operating at Full Governed
RPM.

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

Engine Lubricating System (Continued)

Oil Pump ----- Gear Type With Floating Intake Screen.

Fuel System

Carburetor ----- 1" SAE Flange
Fuel Strainer ----- In Sediment Bowl Under Fuel Tank.

Fuel Tank Capacity ----- 13 Gallons

Distributor Ignition

Contact Point Gap ----- .020"
Angle ----- 42°

Ignition Timing at 1750 RPM (Checked with timing light) ----- 25°

Spark Plugs ----- Prestolite 18 8 or Equivalent.
Thread ----- 18 MM

Gap ----- .025"

Shank Length ----- 1/2"

159 gasoline engine

SPECIFICATIONS

General

Type ----- 4 Cylinder, 4 Cycle,
Valve in Head.
Firing Order ----- 1-3-4-2
Cylinder Bore ----- 3-1/2 Inches
Stroke ----- 4-1/8 Inches
Piston Displacement ----- 159 Cubic Inches
Compression Ratio ----- 7.42 to 1
Exhaust Valve Rotators ----- Positive Type
*Valve Clearance (Intake and Exhaust) ----- .014" (Hot)
Cylinder Sleeves ----- Wet Replaceable Type
Engine Idle Speed ----- 600 RPM
Full Load Speed (530 Series) Standard Clutch ----- 1900 RPM
Full Load Speed (530 Series) Case-O-Matic ----- 2100 RPM
No Load Speed (530 Series) Standard Clutch ----- 2060 RPM
No Load Speed (530 Series) Case-O-Matic ----- 2250 RPM

Piston and Connecting Rods

Compression Rings ----- 3
Oil Rings ----- 1
Piston Pins ----- Full Floating Type
Connecting Rod Bearings ----- Replaceable Precision
Steel Back, Aluminum
Liners.

Main Bearings

Number of Bearings ----- 3
Type of Bearings ----- Replaceable Precision
Steel Back, Intermediate
Copper-Lead Liners.

Engine Lubricating System

Oil Pressure ----- 24 - 32 Lbs. (With Engine Warm
and Operating at Full Governed RPM).

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

Engine Lubricating System (Continued)

Oil Pump ----- Gear Type With Floating Intake Screen.

FUEL SYSTEM

Carburetor ----- 1-1/4" SAE Flange
Fuel Strainer ----- In Sediment Bowl Under Fuel Tank.

Fuel Gauge ----- Electrical, Located on Instrument Panel.

Fuel Tank Capacity ----- 22 Gallons

Distributor Ignition

Contact Point Gap ----- .020"

Dwell Angle ----- 42°

Ignition Timing (Checked with Timing Light)

1900 RPM (Standard Clutch) ----- 30°

2100 RPM (Case-O-Matic) ----- 30°

Spark Plugs ----- Prestolite 18 8 or Equivalent

Thread ----- 18 MM

Gap ----- .025"

Shank Length ----- 1/2"

general specifications

Cooling System

Type of System ----- Pressurized, Thermostat Controlled;
Forced Circulation (Impeller Type
Pump.
Radiator ----- Heavy Duty Fin and Tube Type
Thermostat ----- Starts To Open At Approximately 177° F.
Fully Open at 202° F.
Pressure Cap Required ----- 4 PSI

Electrical System

Type of System ----- 12 Volt Negative Ground
Batteries - Diesel ----- (2) 6 Volt-Type IM-105R, 45 Plates,
Connected in Series.
Spark Ignition ----- (1) 12 Volt, Type 11MS, 54 Plates
Generator ----- 12 Volt
Voltage Regulator ----- Automatic Type
Starting Motor ----- 12 Volt
Head Lights ----- 12 Volt Sealed Beam
Rear Warning Light ----- 12 Volt Sealed Beam Combination
Tail and Flood Lamp
Rear Stop and Tail Lights ----- 12 Volt
Electrical Socket ----- 12 Volt for Auxiliary Light
Fuse ----- 20 AMP - Light Circuit - in Panel

Brakes

Type ----- Heavy Duty, Band and Double Disc,
Differential Brakes.
Brake Pedals ----- Can Be Locked Together for Road Travel or
use Individually for Steering Assistance.

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 Act-
uated Engages Engine Directly with
Main Powr Clutch and Transmission,
By-Passing Torque Converter.
Type Torque Converter ----- 11 Inch, Single Stage



Our support email:

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