

**430/530 Tractor**  
**Operators Manual**

9-1914

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.

## CASE TECHNICAL MANUALS

Manuals are available from your Dealer for the operation, service and repair of your machine. For prompt convenient service, contact your Dealer for assistance in obtaining the manuals for your machine.

Your Dealer can expedite your order for operators manuals, parts catalogs, service manuals and maintenance records.

Always give the Machine Name, Model and P.I.N. (product identification number) or S.N. (serial number) or your machine so your Dealer can provide the correct manuals for your machine.

### CALIFORNIA

#### Proposition 65 Warning

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.

**NOTE:** Case Corporation reserves the right to make improvements in design or changes in specifications at any time without incurring any obligation to install them on units previously sold.

## AFTER DELIVERY CHECKUP

(Owner's Name)	(Date Checkup Performed)
(Owner's Address)	
(Dealership)	(Town)
Tractor has been operated _____ hours	(Tractor Model and Serial Number)

- |  |  |
|--|--|
| <input type="checkbox"/> Crankcase Oil (Change oil and filter).<br><input type="checkbox"/> Cooling System.<br><input type="checkbox"/> Tighten Cylinder Head Bolts and Adjust Tappets.<br><input type="checkbox"/> Fuel Injection Pump Timing.<br><input type="checkbox"/> Fuel Filtering System.<br><input type="checkbox"/> Distributor Timing.<br><input type="checkbox"/> Spark Plugs and Distributor Point Gap.<br><input type="checkbox"/> Electrical System.<br><input type="checkbox"/> Air Cleaner and Breathers.<br><input type="checkbox"/> Lubricate all Pressure Fittings.<br><input type="checkbox"/> Tire Pressure.<br><input type="checkbox"/> Tighten all Bolts. | <input type="checkbox"/> Steering Axle Toe In and Wheel Bearing Adjustments.<br><input type="checkbox"/> Full Governed No Load Engine Speed and Low Idle Speed.<br><input type="checkbox"/> Brakes.<br><input type="checkbox"/> Operate all Controls.<br><input type="checkbox"/> Operation of Instruments.<br><input type="checkbox"/> Traction Clutch Adjustment.<br><input type="checkbox"/> PTO Clutch Adjustment (If so equipped).<br><input type="checkbox"/> Oil Level in Transmission, Torque Tube and Hydraulic Systems.<br><input type="checkbox"/> Hydraulic System and Pressure.<br><input type="checkbox"/> Belt Adjustments. |
|--|--|

**DEALER:** Question purchaser carefully concerning his experience with tractor and answer any questions concerning maintenance or operation that are not clear to him.

Checkup \_\_\_\_\_  
Performed by

Signed \_\_\_\_\_  
Dealer

Signed \_\_\_\_\_  
Customer

**Original — Dealer**  
**Duplicate — Leave in Operators Manual for Purchaser**

## AFTER DELIVERY CHECKUP

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(Owner's Address)	
(Dealership)	(Town)
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Signed \_\_\_\_\_  
Dealer

Signed \_\_\_\_\_  
Customer

Original — Dealer  
 Duplicate — Leave in Operators Manual  
 for Purchaser

## 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*



**HI FOLKS!-I'm Sammy Safety.  
Look for me to point out  
important Safety Precautions**

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

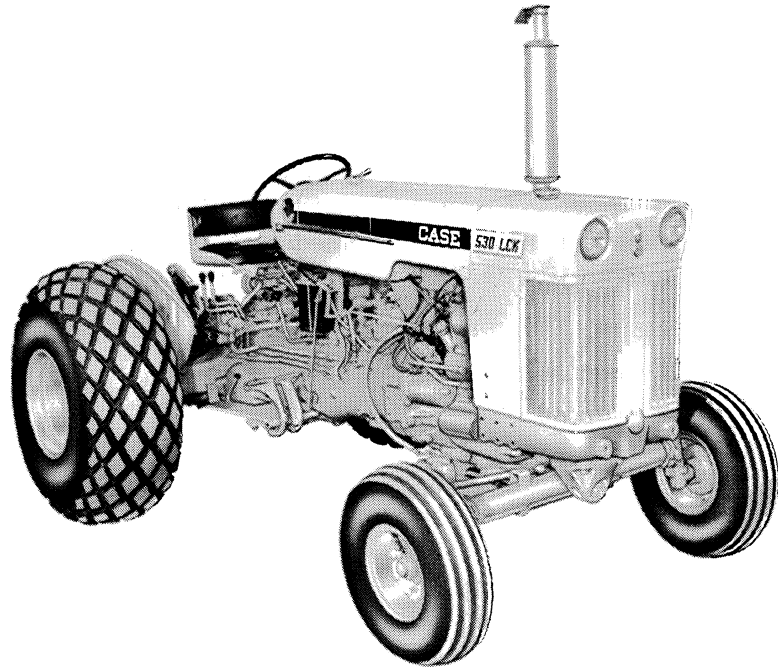


Figure 1. Low Center King Tractor

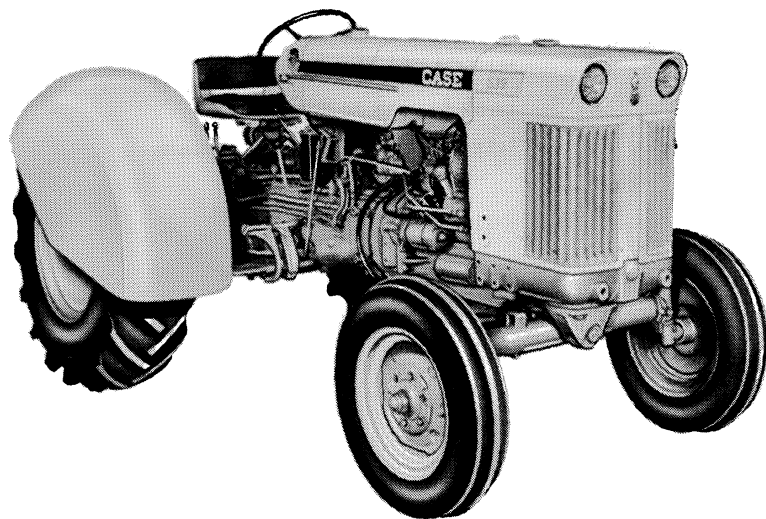


Figure 2. Standard Tractor w/Grove Fenders

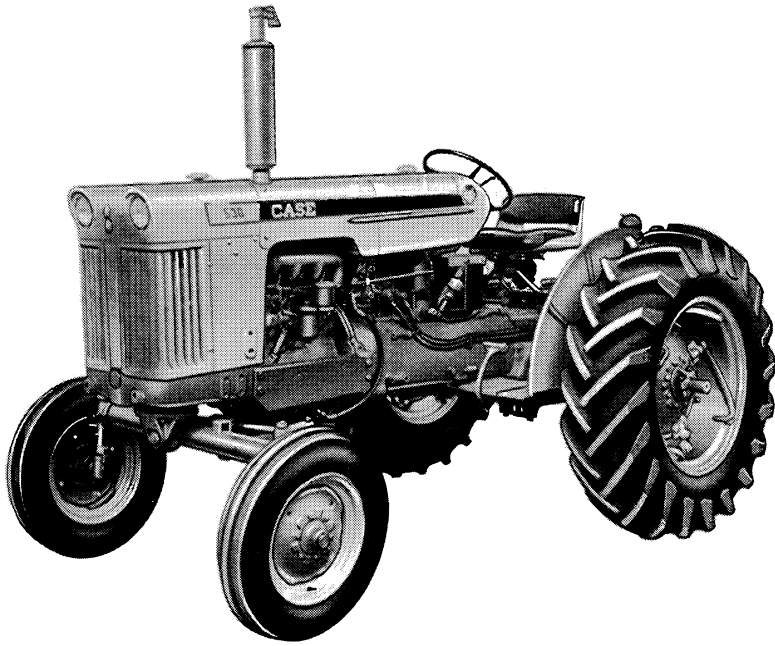


Figure 3. General Purpose Tractor w/adj.Front Axle

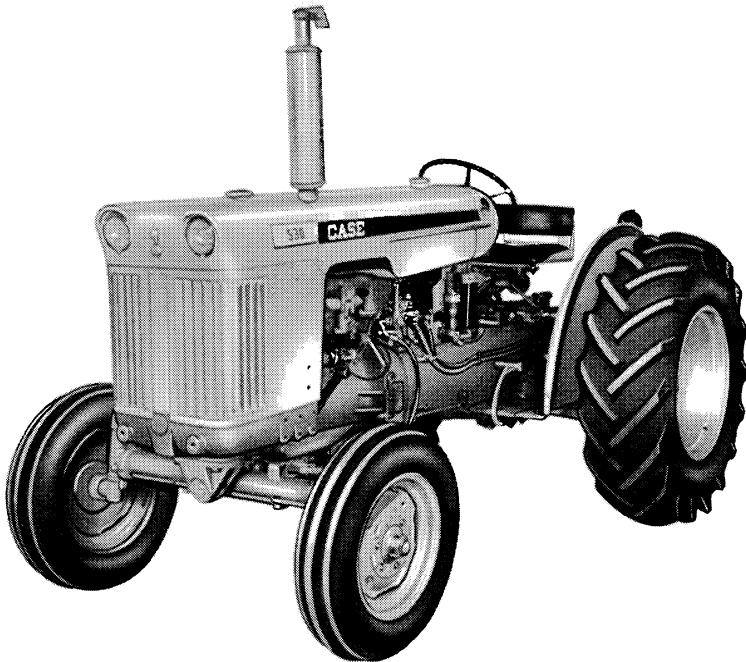


Figure 4. Standard Tractor



## 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

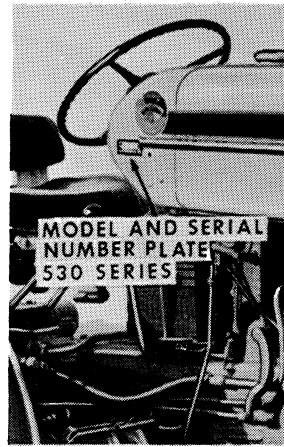


Figure 6

**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  
Fuel Injectors Opening Pressures.

(Before Engine Serial Number 2627377) ----- 2250 PSI

(Engine Serial Number 2627377 and after) ----- 2800 PSI

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 Capacity (430 Series) ----- 13 U. S. Gallons  
(530 Series) ----- 22 U. S. Gallons

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