

**930 Diesel
Comfort King
Wheel Tractor**

Operator's Manual

9-963

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.

NOTICE!

At the time your Case Dealer delivers your new tractor, he will acquaint you with its operation and maintenance as outlined in the "Dealer's Delivery Service Report". When your Dealer has completed these instructions, he will ask you to sign the report and will then hand you the yellow copy for your records.

NOTE: The "Dealer's Delivery Service Report" also contains a record of the Pre-Delivery Checkup which your Dealer made on your tractor.

AFTER DELIVERY CHECKUP

The Authorized Case Dealer from whom you purchased your new tractor will perform the "After Delivery Checkup" outlined on the following page, if you will arrange to bring your tractor to his Service Shop within - - -

60 days after date of delivery or 200 hours of operation (whichever occurs first).

NOTE: The only charge your dealer will make for this inspection will be for oil, filters or other accessories.

AFTER DELIVERY CHECKUP (Diesel)

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

Dealer's Copy-Tear Here

- | | |
|---|--|
| <input type="checkbox"/> Check traction clutch. | <input type="checkbox"/> Cooling system. |
| <input type="checkbox"/> Check PTO clutch. | <input type="checkbox"/> Crankcase oil (Change oil and filter if necessary). |
| <input type="checkbox"/> Check brakes. | <input type="checkbox"/> Oil Level in transmission, hydraulic system, and steering gear. |
| <input type="checkbox"/> Operate hydraulic system. | <input type="checkbox"/> Lubricate all pressure fittings and oil cups. |
| <input type="checkbox"/> Check tire pressure. | <input type="checkbox"/> Check air cleaner. |
| <input type="checkbox"/> Tighten cylinder heads and adjust tappets. | <input type="checkbox"/> Check steering, bearing adjustment and front wheel toe-in. |
| <input type="checkbox"/> Check fuel injection pump timing. | <input type="checkbox"/> Batteries, starter, generator and lights. |
| <input type="checkbox"/> Fuel filtering system. | <input type="checkbox"/> Check operation of all instruments. |
| <input type="checkbox"/> Check no load full governed engine speed. | |
| <input type="checkbox"/> Tighten all bolts. | |

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

Original—Dealer
Duplicate—Leave in Operators Manual
for Purchaser

Signed
Customer

AFTER DELIVERY CHECKUP (Diesel)

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

- | | |
|--|--|
| <input type="checkbox"/> Check traction clutch.
<input type="checkbox"/> Check PTO clutch.
<input type="checkbox"/> Check brakes.
<input type="checkbox"/> Operate hydraulic system.
<input type="checkbox"/> Check tire pressure.
<input type="checkbox"/> Tighten cylinder heads and adjust tappets.
<input type="checkbox"/> Check fuel injection pump timing.
<input type="checkbox"/> Fuel filtering system.
<input type="checkbox"/> Check no load full governed engine speed.
<input type="checkbox"/> Tighten all bolts | <input type="checkbox"/> Cooling system.
<input type="checkbox"/> Crankcase oil (Change oil and filter if necessary).
<input type="checkbox"/> Oil Level in transmission, hydraulic system, and steering gear.
<input type="checkbox"/> Lubricate all pressure fittings and oil cups.
<input type="checkbox"/> Check air cleaner.
<input type="checkbox"/> Check steering, bearing adjustment and front wheel toe-in.
<input type="checkbox"/> Batteries, starter, generator and lights.
<input type="checkbox"/> Check operation of all instruments. |
|--|--|

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

Original—Dealer
Duplicate—Leave in Operators Manual
 for Purchaser

Signed _____
Customer

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.

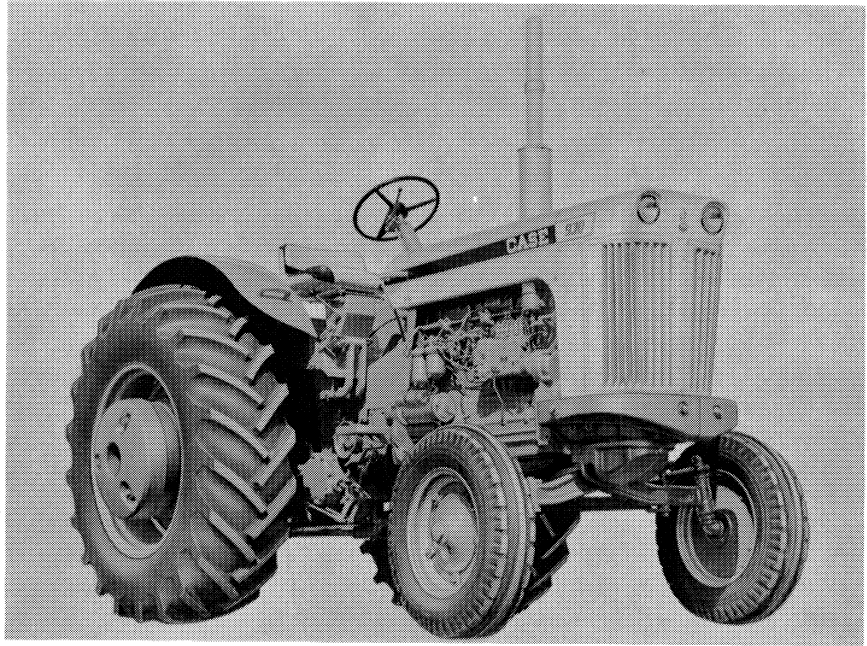


Figure 1. Right Side View of Case 930 Diesel Tractor

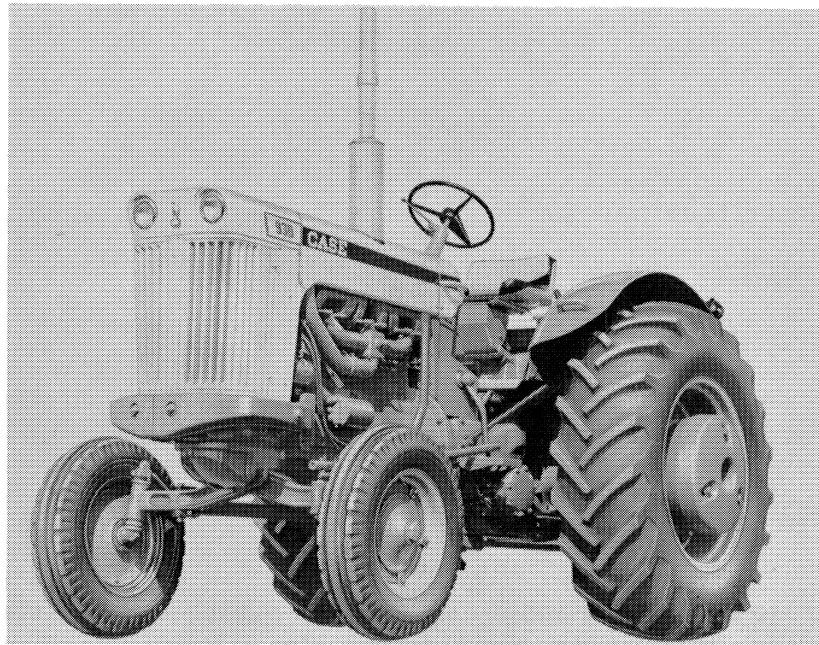


Figure 2. Left Side View of Case 930 Diesel Tractor

INTRODUCTION

The Case Model 930 Diesel Tractor is powered by a rugged six cylinder full diesel engine that is noted for its quiet operating characteristics and economy of operation.

The transmission, 6 speeds forward and 1 reverse, provides a full range of working speeds to handle all implements and tools in any type or condition of soil. The high speed (6th) road gear brings your fields closer to the farm yard in terms of non productive time on the road.

Advanced engineering includes the CASE POWRCEL combustion system which produces all of the available power out of each charge of injected fuel. To protect the closely fitted precision parts, the finest filters available have been provided to clean the fuel, the intake air and the crankcase oil.

The four basic rules of Diesel Engine operation, which are the deciding factors in determining the service life and economy of operation that you will receive from your tractor, are as follows:

1. Clean Fuel

- (a) Use only Number 2 Diesel Fuel that meets the specifications listed in this manual.
- (b) Follow the instructions regarding the recommended precautions when handling and storing fuel.

2. Air Cleaner

Service the air cleaner regularly.

3. Crankcase Oil

Diesel Engines require the use of a heavy duty engine oil. Select oil that meets the proper service designations recommended in the lubrication section of this manual.

4. Periodic Checkups

Your Authorized Case Dealer has the service knowledge necessary to keep your tractor in top running condition. Arrange to have him check your tractor at regular intervals.

SERIAL NUMBER

When ordering parts from your Authorized Case Dealer and 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 right hand side of the instrument panel. See Figure 3. The Engine Number is stamped on a plate fastened to the right hand side of the engine on the fuel pump mounting flange, Figure 4.

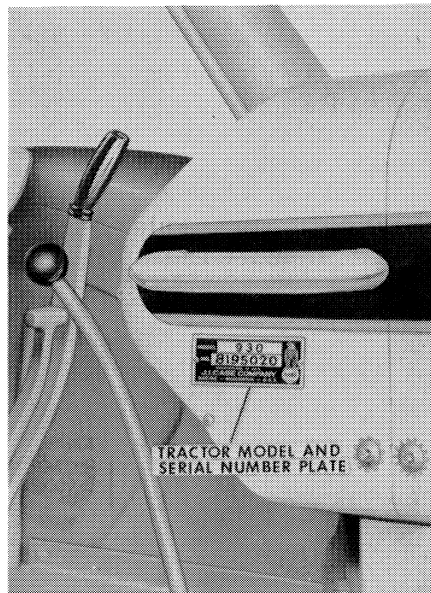


Figure 3

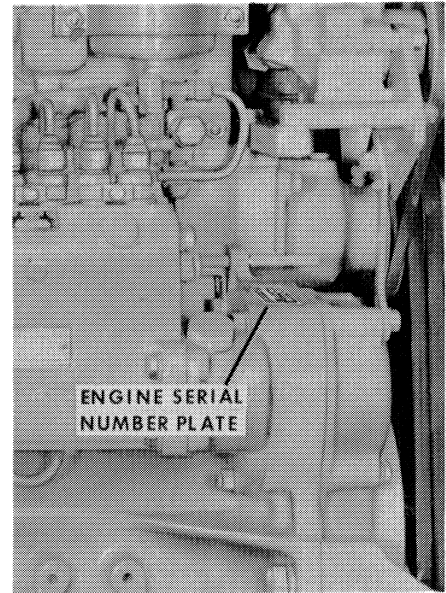


Figure 4

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 930 Series Diesel Tractor in the spaces provided below.

Model Number _____

Engine Number _____

Serial Number _____



general specifications

ENGINE

General

Type ----- 6 Cylinder, 4 Stroke Cycle
 Valve-In- Head Diesel Engine.
 Firing Order ----- 1-5-3-6-2-4
 Bore ----- 4-1/8 Inches
 Stroke ----- 5 Inches
 Piston Displacement ----- 401 Cubic Inches
 Compression Ratio ----- 15 to 1
 Cylinder Sleeves ----- Removable, Wet Type
 No Load Governed Engine Speed ----- 1750 RPM
 Full Load Governed Engine Speed ----- 1600 RPM
 Engine Idling Speed ----- 600 RPM
 Valve Tappet Clearance (Intake) ----- .012 Inch (Cold)
 (Exhaust) ----- .020 Inch (Cold)
 Cold Weather Starting Aid ----- Electric Manifold
 Heater.
 Diesel Fuel Recommendation ----- Number 2 Diesel Fuel

Piston Rings

Rings Per Piston ----- 4
 Number of Compression Rings ----- 3
 Number of Oil Rings ----- 1

Piston Pins

Type Pins ----- Full Floating Type

Connecting Rods

Type 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.

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