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.

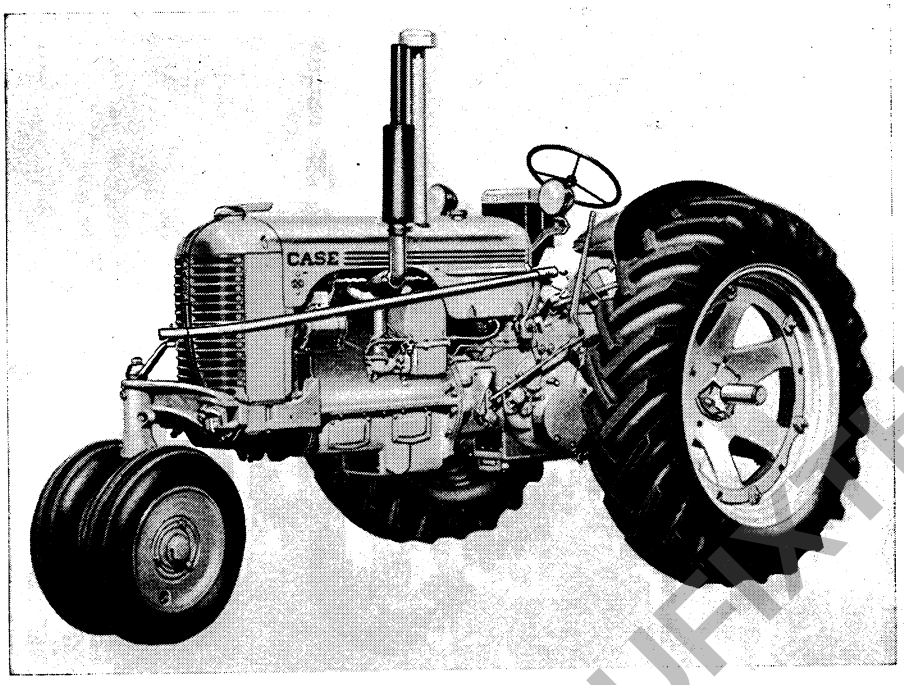
See your Authorized Case dealer for additional operator's manuals, parts catalogs, and service manuals.

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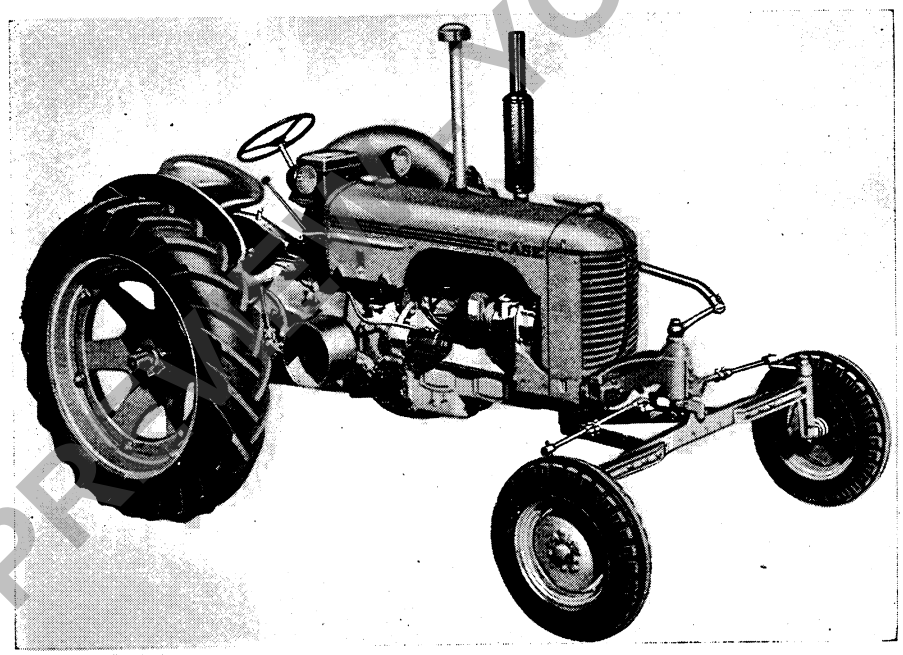
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Model DC-3 General Purpose Tractor



Model DC-3 General Purpose Tractor
(With Adjustable Front Axle)

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GENERAL SPECIFICATIONS OF CASE MODEL D SERIES TRACTORS

Engine

Type	Valve-in-head
Number of Cylinders	4
Firing Order	1-3-4-2
Engine Speed at No Load	1390 RPM
Engine Speed at Full Load	1200 RPM
Engine Idling Speed	500 RPM
Cylinder Bore	3 7/8 Inches
Cylinder Stroke	5 1/2 Inches
Cylinder Sleeve	Removable Wet Type
Connecting Rods	
Type Connecting Rod Bearings	Spun Babbitt
Adjustable	Yes
Main Bearings	
Type Bearings	Bronze Backed Spun Babbitt
Adjustable	Yes
Valves	
Valve Tappet Clearance	.018 Inch—Valve Closed Engine Cold
Spark Plug	Champion 15A—AC85S Commercial or Equivalent Thread 18 mm—Gap .025 Inch Shank Length—1/2 Inch
Fuel System	Gravity Flow Type
Carburetor	1 1/4 Inch SAE Flange
Carburetor Float Level From Top of Bowl	29/32 Inch
Carburetor Load Jet	Adjustable
Magneto	Case Model 41
Magneto Point Gap	.008 to .012 Inch
Air Cleaner	Case Oil Bath Type With Replaceable Filter Pads
Governor	Case Flyweight Type Variable Speed
Oil Pump	Gear Type Floating Oil Screen Inlet Non-adjustable Relief Valve

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Cooling System

Temperature Control for Gasoline and LP Gas ..... Thermostat
Starts to Open Between 175°—180° F.
Fully Open 200° F.
Radiator Shutters Available as Extra Equipment

Temperature Control for Low Cost Fuel ..... Thermostat
Starts to Open Between 175°—180° F.
Fully Open 200° F.
Radiator Shutters Standard Equipment

Type of System ..... Forced Circulation (Pump)

Type of Water Pump ..... Impeller

Radiator ..... Heavy Duty Tube and Fin Type with Cast Iron Top and Bottom Tanks

Hose Specifications
Upper Radiator Inlet Elbow ..... Cast Elbow

Lower Radiator Hose ..... 3 Ply—1½ Inch Inside Diameter
5½ Inches Long

Rate of Coolant Flow at Full Load
Governed Engine Speed of 1200 RPM ..... 25 Gallons Per Minute

Number of Fan Blades 6

Effective Width of Blades ..... 2 Inches

Diameter of Fan ..... 16⅞ Inches

Electrical System

Type of System ..... Negative Ground From Battery

Voltage ..... 6 Volt

Battery ..... 17 Plate, 115 Ampere Hours at 20 Hour Rate

Generator ..... 6 Volts

Voltage Regulator ..... Automatic Type

Starting Motor ..... Drive Assembly Automatically Lubricated in Clutch Housing (Sealed from Dust)

Headlight Bulb Size ..... 32 C.P. Single Contact, 6-8 Volt Flange Base Type

Rear Light Bulb Size ..... Large—32 C. P. Single Contact, 6-8 Volt Plain Base Type
Small—1 C. P. Single Contact, 6-8 Volt Plain Base Type

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LOW COST FUEL EQUIPPED TRACTORS

The instructions presented in this manual for the regular straight gasoline burning Model D Series Tractors, apply to the low cost fuel equipped tractor, with the exception of the cooling system and the fuel system.

Low cost fuel equipped D Series Tractors are provided with a double compartment fuel tank. The large low cost fuel compartment holds 17 U. S. gallons and the small gasoline compartment holds 2 U. S. gallons. Shut off both fuel valves before filling compartments.

Note: Be sure the air vents in the fuel tank caps are kept open to assure proper flow of fuel.

Low cost fuels are heavier than gasoline and therefore require greater manifold and engine heat. To obtain this necessary operating heat, the tractor is equipped with a manifold heat regulator valve, a manifold shield and a radiator shutter in addition to the standard thermostat. The manifold heat regulator valve and the radiator shutter are controlled by the two hand cranks on the instrument panel, Figure 47.

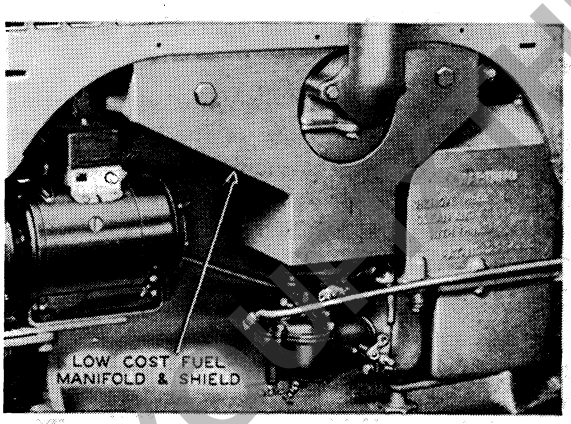


Figure 46.

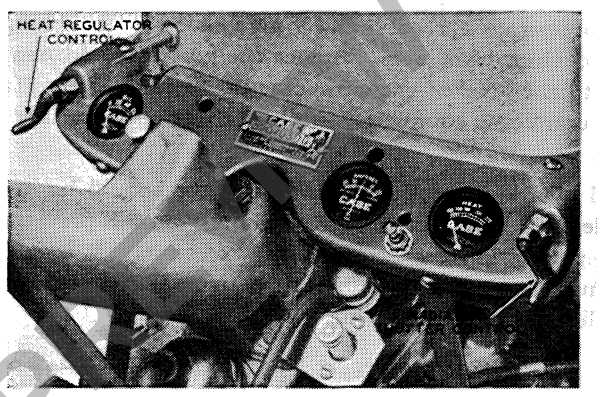


Figure 47.

Always close the radiator shutters completely when starting a low cost fuel equipped tractor. Turn the radiator shutter crank clockwise, to the right, to close the shutters. **Set the manifold heat regulator valve in the HOT position** by turning the control crank clockwise—to the right—as far as possible.

Before operating a low cost fuel equipped tractor continuously on gasoline, consult your Authorized Case Dealer regarding changes that should be made.

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VI

SERVICE SUGGESTIONS

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To remove the oil pump floating screen, drain the crankcase and take off both of the rear hand hole covers on the oil pan.

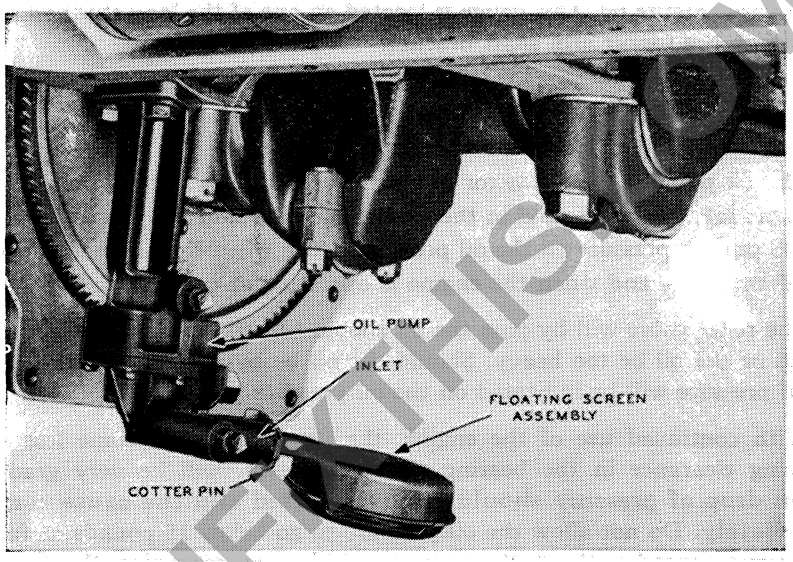


Figure 61.

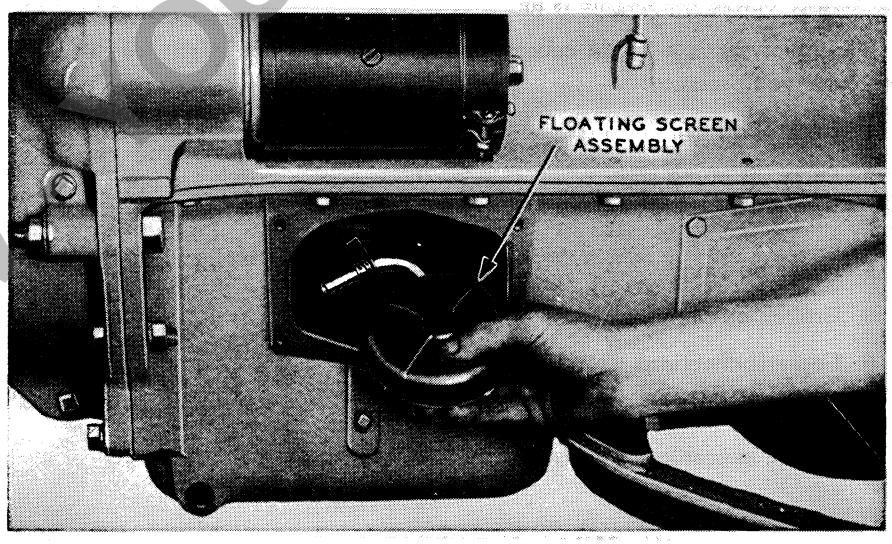


Figure 62.

Working through the right hand opening, straighten the cotter pin that holds the floating screen assembly to the oil pump inlet, Figure 61. Remove the cotter pin and slide the assembly away from the inlet; then remove it through the hand hole opening, as shown in Figure 62.

When replacing the floating screen assembly, use a new cotter pin.

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PREVENT ACCIDENTS

When operating tractors or self-propelled farm machines, or when trailing a farm machine or implement over a public thoroughfare after dark — —

1. **Be sure the unit is equipped with headlights and that they are adjusted for highway use.**
2. **Place suitable red lights and reflectors on the rear and sides of the unit so that its outline is well defined.**
3. **COMPLY WITH YOUR STATE AND LOCAL LAWS GOVERNING LIGHTING REGULATIONS AND MAXIMUM WIDTH REGULATIONS.**

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III

OPERATING INSTRUCTIONS

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IMPORTANT PRE-STARTING INFORMATION

PREPARING THE TRACTOR FOR OPERATION

Although your new Case Tractor has been checked and serviced according to the Dealer's Delivery Service Report, it is advisable for you to check the following things before starting the engine the first time. Performing these checks will familiarize you further with your tractor and it will also help form the very profitable habit of following this procedure before each day's operation.

Check the following:

Be sure all lubrication fittings have been serviced according to the information given on Pages 18 through 21.

Be certain the crankcase and transmission case are filled to the correct level as indicated on Pages 22 and 25 respectively.

Check the air cleaner oil reservoir. It must be filled with a clean, free-flowing oil to the level indicated on the inside of the reservoir. Refer to Page 71 for detailed information on the air cleaner.

Be sure the radiator is filled with a clean coolant suitable for the prevailing temperatures. Refer to Page 65 for detailed information on radiator care and operating temperatures.

Be sure the hydraulic sump housing is filled to the correct level. Refer to Page 17 for capacities and oil viscosity recommendations.

Fill the tank with a reputable brand of gasoline that is free of dirt and water. The gasoline should have a minimum rating of 65 octane. Please refer to Pages 57 and 58 for additional information on fuels. Make sure the air vent in the fuel tank cap is open to assure the proper flow of fuel. The capacity of the tank is approximately 19 gallons.

Check the pressure in the tires with an accurate gauge. The recommended pressure for the rear tires is 12 pounds; for the front tires 28 pounds. See Pages 36 through 37 for additional information on tires.

CAUTION: The rear wheel spacing on Model DC Row Crop Tractors is adjustable. Always adjust the rear wheels well out on the axle to reduce the hazard of tipping over when traveling at increased speeds.

Check the fan and generator belts. The belts should be sufficiently tight to eliminate any slippage. Refer to Pages 69 and 87 for fan and generator belt adjustment.

Make sure either the Eagle Hitch power take-off guard or the Standard adapter guard is in place over the power take-off stub shaft on tractors so equipped.

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