Model DI Industrial Tractor

Operators Manual

Reprinted

5298

CASE

TO PURCHASERS OF NEW CASE TRACTORS

Congratulations on your purchase of a CASE tractor. Welcome to the ever-increasing number of satisfied CASE owners.

The dependability and economical performance of your new CASE tractor will prove that you were wise in making this choice.

The organization back of your machine has been building quality farm equipment for more than a century. Your CASE tractor was built in one of the largest and best equipped plants in the world. In this factory quality materials, the finest precision machinery, high grade workmanship, thorough inspection, and complete testing equipment are combined to give you the best in performance and economical operation.

The care which you give your machine will have a great deal to do with the service and satisfaction you get from it. By observing the precautions and suggestions in this manual, your CASE tractor will serve you well for many years. Make this manual your guide. Should you need information not covered here, or should your tractor require special servicing, contact your Case dealer. He has trained men who are kept informed on the best methods of servicing CASE machines in the field or in his shop.

When it becomes necessary, after long use, to replace certain parts on your tractor, be sure to use only genuine CASE parts, which insure proper fit and continued good service. These may be obtained from your CASE dealer. It is always helpful to provide him with the MODEL of your machine in addition to a description (and part number if available) of the parts required.

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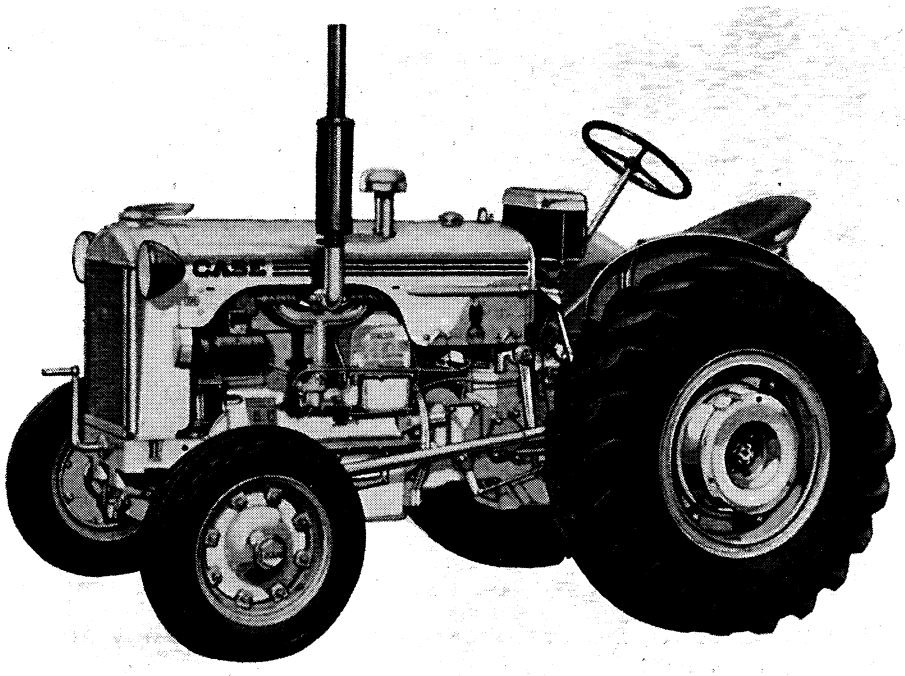

Figure 1

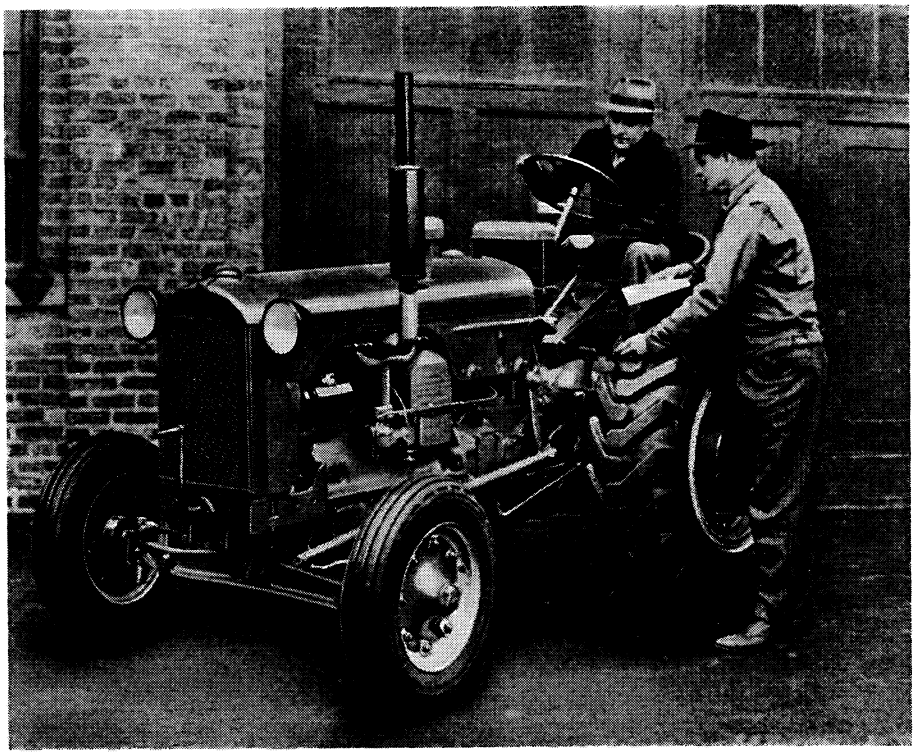

Figure 2

Your new Case Tractor has been put in operating condition by the dealer from whom it was purchased. Nevertheless, it is a good policy to check the tractor thoroughly before placing it in operation. Report any shortages or damaged parts immediately to your Case dealer.

SPECIFICATIONS

CASE MODEL DI TRACTOR

Engine

Valve-in Head Type	
Cylinders	4
Bore	3 7/8 inches
Stroke	5 1/2 inches
Cylinder Sleeves	Removable Wet Type
No Load Speed	1367 RPM
Full Load Speed	1200 RPM
Firing Order	1-3-4-2
Fuel System	Gravity Flow Type
Valve Clearance	.018 inches when cold
Spark Plug	AC Type No. 85 or equivalent Thread 18MM—Gap .030 Shank Length 1/2 inch
Carburetor	1 1/4 inch SAE Flange
Magneto	CASE Type 4JMA
Air Cleaner	CASE Oil Bath Type
Oil Filter	Replaceable Cartridge
Governor	CASE Fly Ball Type

Belt Pulley (Extra Equipment)

Diameter	12 1/4 inches	Face	7 1/4 inches
No Load Speed			930 RPM
Full Load Speed			818 RPM
Belt Speed			2620 ft. per min.
Ratio of Engine Speed to Belt Pulley Speed			1.466 to 1

Power Take-off (Extra Equipment)

Normal Speed	540 RPM
Spline	1 3/8 inches ASAE Standard
Guard	FEI Standard

Approximate Capacities

	U. S.	Imperial
Engine Crankcase	1.75	1.5 Gals.
Cooling System	6.25	5.2 Gals.
Single Compartment Fuel Tank	19	15.9 Gals.
Double Compartment Fuel Tank (Large Compartment)	17	14.11 Gals.
(Small Compartment)	2	1.67 Gals.
Transmission and Differential	10.5	8.5 Gals.

Approximate Travel Speed

This travel speed is calculated with engine speed of 1200 RPM and standard size 13.00-24 rear, and 6.00-16 front tires on the tractor.

First	Second	Third	Fourth	Reverse	
1.88	3.62	4.98	10.1	2.84	MPH

Note: Speed will vary with weight of wheel, traction, size of tire and load.

Tire Pressures

Rear—13.00-24 ..... 12 Lbs.

Front—6.00-16 ..... 28 Lbs.

Shipping Weight

With 13.00-24 Rear Single Tires, 6.00-16 Front Tires ..... 5150 Lbs.

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INDUSTRIAL TRACTOR

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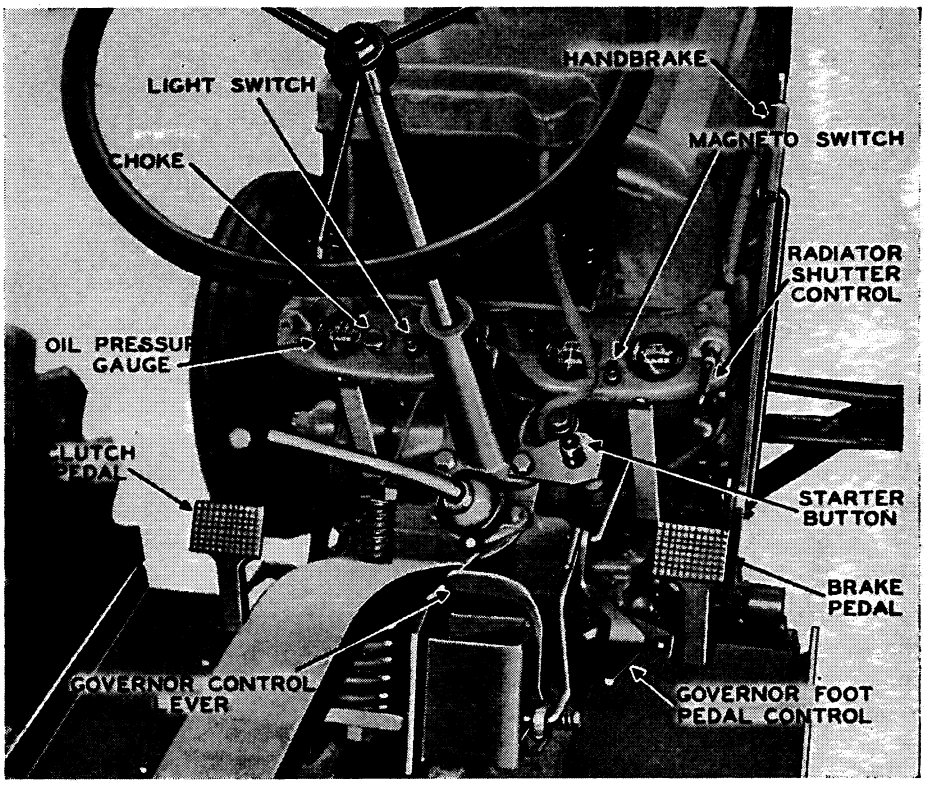

Figure 3. Operating Controls

STARTING THE ENGINE

Before starting the engine, make sure the crankcase and air cleaner are filled with oil to the proper level. Fill the radiator with clean water or with anti-freeze during cold weather. Make sure the transmission is filled to the proper level with specified transmission oil.

Fill the fuel tank with 19 U. S. gallons. When the tractor is new, ½ pint of light oil may be added to each 10 gallons of fuel.

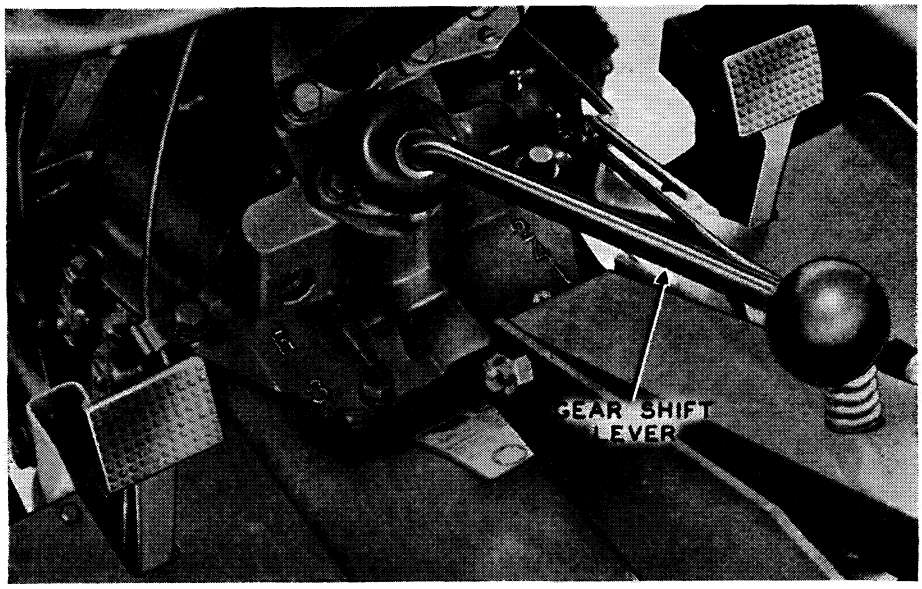

Figure 4. Gear Shift

Place the gear shift lever in the neutral position and work the clutch pedal to see that clutch does not stick. At the same time, check the clutch break shoe on the right hand side of the tractor and see that it does not bind on the clutch break sleeve when the clutch pedal is released, Figure 37.

Close the radiator shutter by turning the shutter control crank on the instrument panel to the right. Set the governor control lever at about mid position. To decrease the governed engine speed, push forward on the lever and to increase the speed, pull the lever rearward.

Use the choke button only when the engine fails to start immediately.

To start the engine, push the magneto switch in and press down on the starter button until the engine fires.

When hand cranking, pull the crank upward with one-quarter turns so the operator's hand will be in a position to avoid being struck by the crank should the engine backfire.

Immediately after starting the engine, check the oil pressure gauge to see that it is registering pressure. With the engine warm and running, the gauge should register 30 to 35 pounds pressure.

Set the governor control lever so the engine runs at normal speed and adjust the carburetor load adjusting needle until the engine runs freely.

To operate the foot accelerator pedal, the governor control lever must be in the full forward position.

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