

**CASE**  
**Model "D" Tractor**  
**Operator's Manual**

5280

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.

KEEP THESE INSTRUCTIONS FOR REFERENCE

# CASE MANUAL

Instructions for  
Operation and Care of the

## CASE MODEL "D" TRACTOR



**TO CASE OWNERS —**

The more thorough knowledge the owner has of his Tractor, the better will be the results, and the greater the profit from its use. It is the desire of the J. I. Case Co., that every Tractor should give the highest degree of service and every effort is made toward insuring this service in the design and manufacture of the Tractor. When it passes into the hands of the owner it passes largely beyond the control of the Company. This manual has been prepared with the purpose of giving the owner as much knowledge of the Tractor as possible. The owner and particularly the operator is urged to read and study this manual and to use good judgment in the use and care of his Tractor, and satisfactory service will follow.

**J. I. CASE COMPANY**  
Racine, Wisconsin, U. S. A.

Form 5280 SM 6-40

SECOND EDITION

PRICE TWENTY-FIVE CENTS

## SPECIAL SAFETY INSTRUCTIONS

### 1. Do Not Operate New Tractor on Full Load.

No fine piece of machinery should ever be loaded to full capacity until it has been run light for a reasonable length of time. FOR FIRST 50 HOURS THIS TRACTOR SHOULD BE RUN AT HALF LOAD OR LESS BEFORE IT IS PUT ON FULL LOAD.

2. Never get off or on tractor while it is in motion.

3. When the power take-off is used, be absolutely sure the standard adapter guard furnished with the tractor, is in place. It should be understood this guard in itself is not sufficient to prevent clothing being caught by universal joint or revolving shaft. It is a standardized guard and will fit to a telescoping shield which should be furnished with all power take-off driven machine.

NOTE: IT IS EQUALLY IMPORTANT THAT THE TELESCOPING SHIELDS ON THE POWER TAKE-OFF MACHINE, WHICH ATTACH TO THE STANDARD GUARD, ARE IN PLACE. IF POWER TAKE-OFF DRIVEN MACHINES ARE RECEIVED WITHOUT THESE SHIELDS, SEE THE NEAREST CASE DEALER OR BRANCH, PROVIDING IT IS A CASE POWER TAKE-OFF DRIVEN MACHINE. IF OTHER THAN A CASE, SEE THE DEALER HANDLING SAID MACHINE OR THE NEAREST BRANCH REPRESENTING SAME.

NOTE: IF A POWER TAKE-OFF EQUIPPED TRACTOR IS DELIVERED WITHOUT THE STANDARD ADAPTER GUARD (WHICH IS NOT ILLUSTRATED IN THIS MANUAL) APPLY TO THE NEAREST CASE DEALER OR BRANCH HOUSE FOR SAID GUARD.

4. When cranking an engine the handle of the crank should be pulled upward with the right hand so the operator's hand will be in a position to avoid being struck by the starting crank if there is a reversal of the direction of the engine from any cause whatsoever.

5. When starting any tractor do not engage the clutch quickly. Always engage clutch gradually so the engine will pick up the load slowly. This is particularly necessary when the tractor is going up a steep hill, climbing out of ditches or when hitched to some heavy or difficult load. Never hitch a tractor to a stump or other object by means of a long chain or rope with slack so that when the tractor moves forward it will jerk into the load.

6. When working on steep side hills, any tractor may tip over sideways, especially when the wheel on the lower side strikes a hollow, hole or ditch. The center of gravity on Case tractors is low and they are especially stable but when operating under unusual conditions they must be used with reasonable care.

7. It is always advisable to reduce the speed of the tractor when turning.

8. When going up a steep hill or climbing out of a ditch or gully, any tractor is likely to raise its front wheels off of the ground if the full power is suddenly applied or by quickly engaging the clutch. Under such conditions the momentum of the flywheel adds to the power of the engine, and to avoid possibility of danger under these conditions the operator should keep his hand on the clutch lever or foot on the clutch pedal if foot clutch is used engaging the power of the engine slowly and be prepared at all times to disengage the clutch promptly should the front wheels raise off the ground. The same precautions must be taken if the tractor becomes mired down by being driven into a soft bog, a mud hole or ditch.

9. Any vehicle is likely to tip over when making a short turn at high speed. Tractors are designed to make short turns because it is necessary in doing their work, especially for row crop cultivation; such short turns should only be made at slow traveling speed with reduced throttle. Special precautions should be exercised when using differential or the rear wheel brakes for turning.

The above precautions are particularly true of General Purpose tractors, and especially with rear wheels set in the narrow position. It is obvious also that tractors can be tipped over more readily on hillsides or rough slanting ground.

10. Read Instruction Book Carefully.

11. Ordering Parts.

When ordering parts be sure to give Serial Number and Model of tractor and name and number of Part Ordered.

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## PREPARING A NEW TRACTOR FOR USE

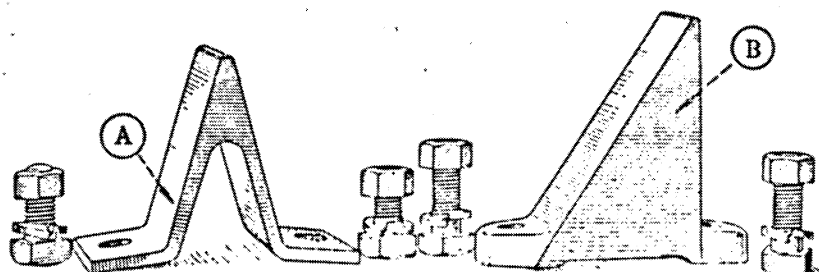
**NOTE:** The paragraphs of the following instructions are numbered and in many cases the paragraph numbers correspond with numbers on the illustrations and also the parts referred to in the instructions are shaded or emphasized on the illustrations so that the directions can be easily followed. The terms "right hand" and "left hand" apply when the operator is seated in the driver's seat and looking forward.

It is the desire of the J. I. Case Co. that every tractor should be delivered not only mechanically perfect but as clean in appearance as the day it was shipped from the factory. When possible, box-cars will be used in making shipments and at times this requires the removal of some parts from the tractor to save space in loading. Put these parts on fastening securely, using lock washers on all bolts.

### Lugs.

**Fig. 1.** Forty-eight steel spade lugs 4" high as shown at A, Fig. 1 are regularly furnished. These lugs meet all usual conditions.

**NOTE:** In some soil conditions better traction may be gained with a combination of 20 lugs per wheel.



**Fig. 1. Spade Lug Equipment**

If the soil is of a light sandy character and the tractor is loaded near capacity, it is desirable to use special equipment consisting of cast sand lugs 5 3/4" high which are illustrated at B, Fig. 1. These lugs are also good when a tractor is pulling disk harrows or seeding machines on plowed ground. Note that the slanting face of lugs is toward the rear when lugs are in contact with ground.

Use lock washers on bolts attaching lugs to the wheels and tighten all lug bolts again after a few hours use. See page 69 for other lug equipment.

Slippage of drive wheels may occur even when the correct lugs are used. Soil that is wet or soggy should not be worked until it dries out on top. Slippage in starting a load can often be prevented by care in operating clutch and throttle. The use of wheel scrapers will eliminate slippage under some conditions.

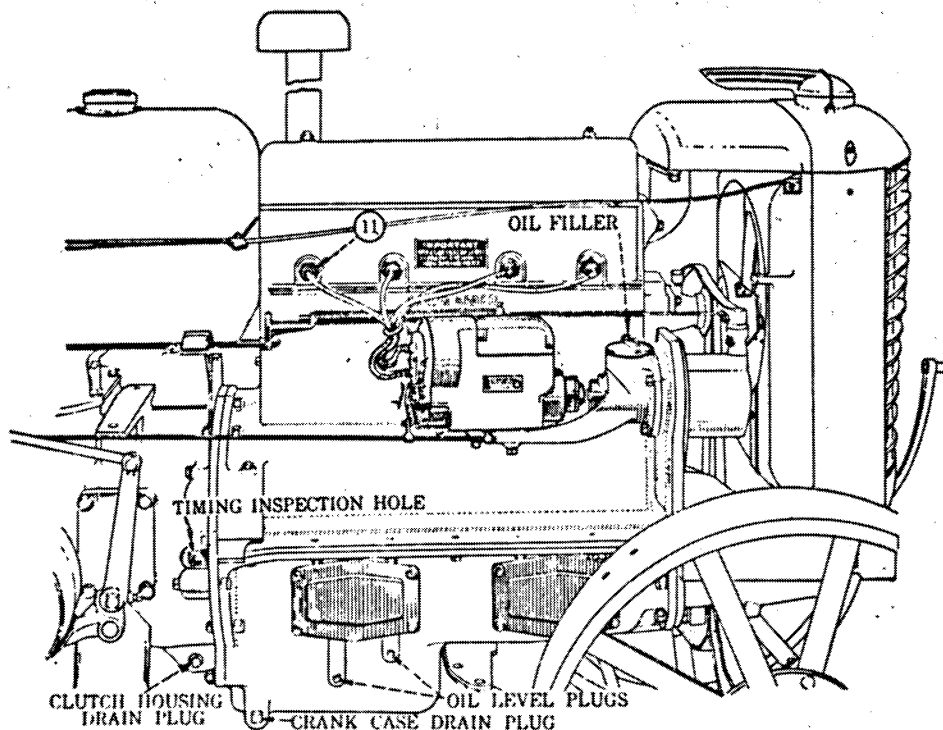


Fig. 2. R. H. Side of Case Model "D" Tractor

These tractors are so powerful that slippage may occur because of overload and sometimes can be eliminated by running at a higher speed with less load.

#### Extension Rims.

The regular spade lugs will do splendid work on plowed ground for discing or seeding when extension rims are used. Best results are obtained by using a lug in every other space on the outer row on the wheel and on the extension rim. The full number of lugs are used on the inner row on the wheel. This arrangement allows greater space between the lugs and prevents clogging.

Refer to page 69 for a list of special lugs and rim equipment.

#### Skid Rings.

1. It is important that the skid rings for the front wheels be put on with the vertical flange of skid ring toward the inside of the wheel.

#### Inspection.

2. Inspect tractor carefully to make sure that nothing has become loose, or has been broken or damaged in shipment. Remove cinders, dirt or paint from moving parts where it might cause parts to bind.
3. Fig. 3. Make sure that air vent holes in caps of fuel tanks are open.
4. Work the clutch lever to see that clutch does not stick and that pulley brake shoe does not bind on belt pulley and that both engage properly when operated. For detailed instructions, see Figs. 14, 24 and 25.

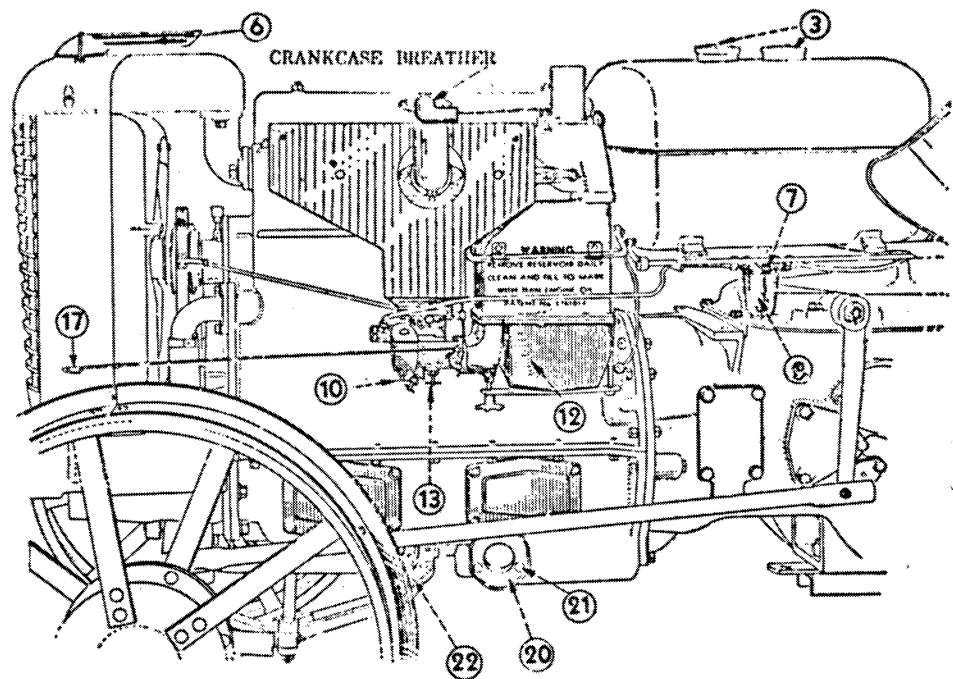


Fig. 3. L. H. Side of Case Model "D" Tractor

### Lubrication of New Tractor.

5. Check over the lubrication of the entire tractor following Fig. 6 and according to instructions given on pages 14 to 18 before starting a new tractor.

Tractors are shipped from the factory without oil in the crankcase. Before a new engine is started in warm weather, seven quarts of a good grade of oil having a body of SAE No. 10 should be put in the crankcase. Before a new engine is started in cool weather, seven quarts of a good grade of oil having a body of 10W should be put in the crankcase. In addition to this, for the running-in period add one pint of light oil to each five gallons of fuel for the first fifty hours. After engine has been properly run in, discontinue the use of light oil in the fuel, but continue to use the light oil in the crankcase in cold weather. For further information on lubrication see the instructions on Page 14.

The practice of starting up an engine for the purpose of unloading, or to run only a short distance before the crankcase is filled to the correct level with a good grade of S. A. E. No. 10 engine oil and the correct amount of water in the radiator, will result in damage to the engine.

In any new engine, during shipment, or when allowed to stand, without being started for considerable length of time, it permits the oil to drain from the interior parts of engine. These parts are liable to sweat or rust, and may seize when the tractor is started up before the parts obtain sufficient lubrication. This applies particularly in cold weather.



We recommend that before starting up new tractors that the inspection plate on the side of crankcase be removed and the interior of the engine well oiled by means of a squirt can or a brush.

Particular attention should be given to the upper bearing of oil pump and the helical gear on camshaft driving the oil pump. These parts should be flooded with oil.

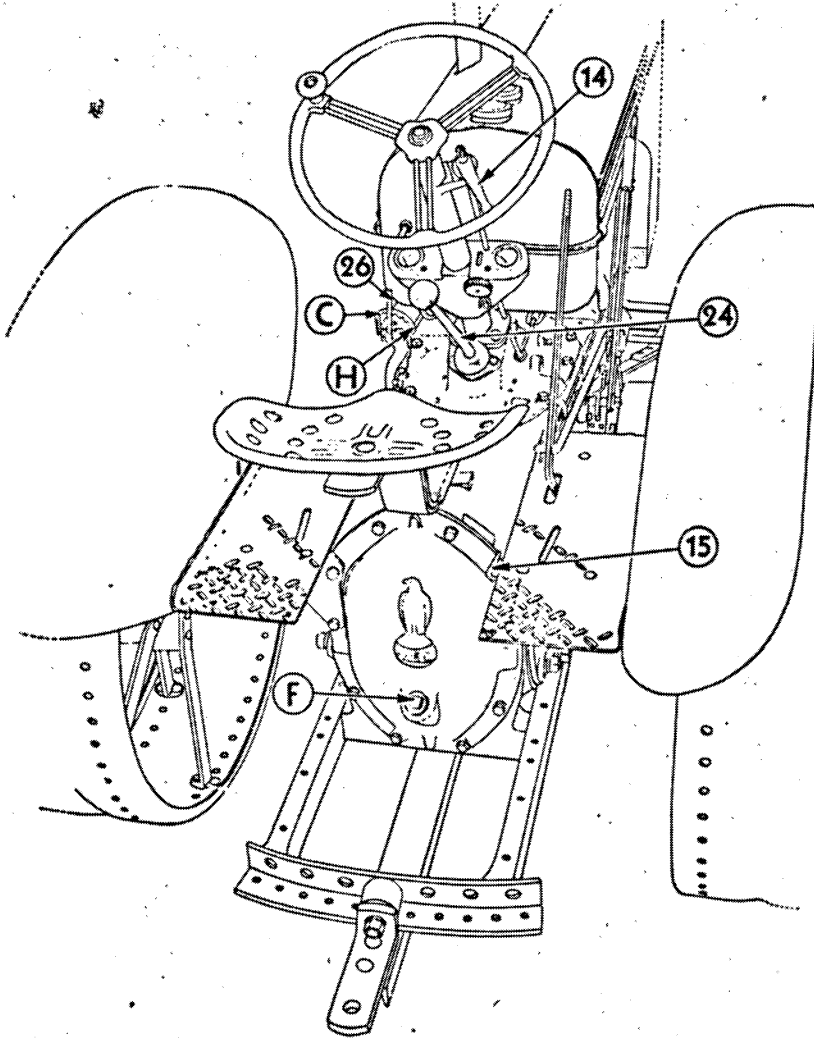


Fig. 4. Operating Controls

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