

**Model "CI"**  
**Industrial Tractor**  
**Operator Manual**

**5234**








*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 THIS BOOK FOR FUTURE REFERENCE

# CASE MANUAL

Instructions for  
Operation and Care of the

## CASE Model "CI" INDUSTRIAL 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 Machine, and satisfactory service will follow.

Racine - Wisconsin - U. S. A.

Form 5934 4000 2-37

PRICE—FIFTY CENTS

Second Edition

## **::: SPECIAL SAFETY INSTRUCTIONS :::**

### **Do Not Operate New Tractor On Full Load.**

1. 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. Modern tractors travel fast, therefore, care should be exercised in getting on or off the tractor, especially when pulling a load to avoid accident or injury to the operator.
3. When the power take-off shaft is used, be absolutely sure that large guard furnished is in place. If an attempt is made to operate power take-off without guard, operator may be injured by his clothing being caught by the universal joint or the revolving shaft.
4. When cranking an engine the handle of the crank should be pulled upward with the left 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.
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 operated with reasonable care.
7. When going up a steel hill or climbing out of a ditch or gully, any tractor is liable to raise its front wheels off 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 or mud hole or ditch.
8. **Read Instruction Book Carefully.**  
The paragraphs of the following printed instructions are numbered in the order that the different operations should be done. Numbers on the illustrations correspond with the paragraph numbers and in many cases the parts referred to in the instructions are shaded or emphasized on the illustration so that the directions can be easily followed.
9. **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.

It is the desire of this company 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.

### Inspection.

1. 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.
2. Fig. 1. Make sure that air vent holes in carburetor and caps of fuel tanks are open. Vent hole in carburetor is on side of carburetor toward engine block but can be cleaned by using a small wire.

### Lubrication of New Tractor.

3. Check over the lubrication of the entire tractor following Fig. 5 and according to instructions given on pages 12 to 17 before starting a new tractor.

Tractors are shipped from the factory without oil in the crankcase. Before new engines are started, seven quarts of a good grade of oil having a body of SAE No. 10 should be put in the crankcase. Use this lighter oil in the crankcase, and add three pints of light oil to each tank of fuel for approximately the first one-hundred hours. Light oil, as well as oil in the fuel is necessary until the engine parts are run in. After this, follow lubrication recommendations on page 12.

The practice of starting up an engine for the purpose of unloading or to run only a short distance before any oil is put in crankcase, or when less than the correct amount of fresh oil of the right body has been added, results in damage to the engine. We will not be responsible for damage occurring when instructions in Case Tractor Manuals are not compiled with.

In any new engine, during shipment, or when allowed to stand without being started for considerable length of time, the oil drains from the interior parts of engine, and the parts sweat and rust, and these parts may seize when tractor is started up before all these parts get sufficient lubrication. This applies particularly in cold weather.

We recommend that before starting up new tractors, that the rear 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 spiral gear on camshaft driving the oil pump. These parts should be flooded with oil.

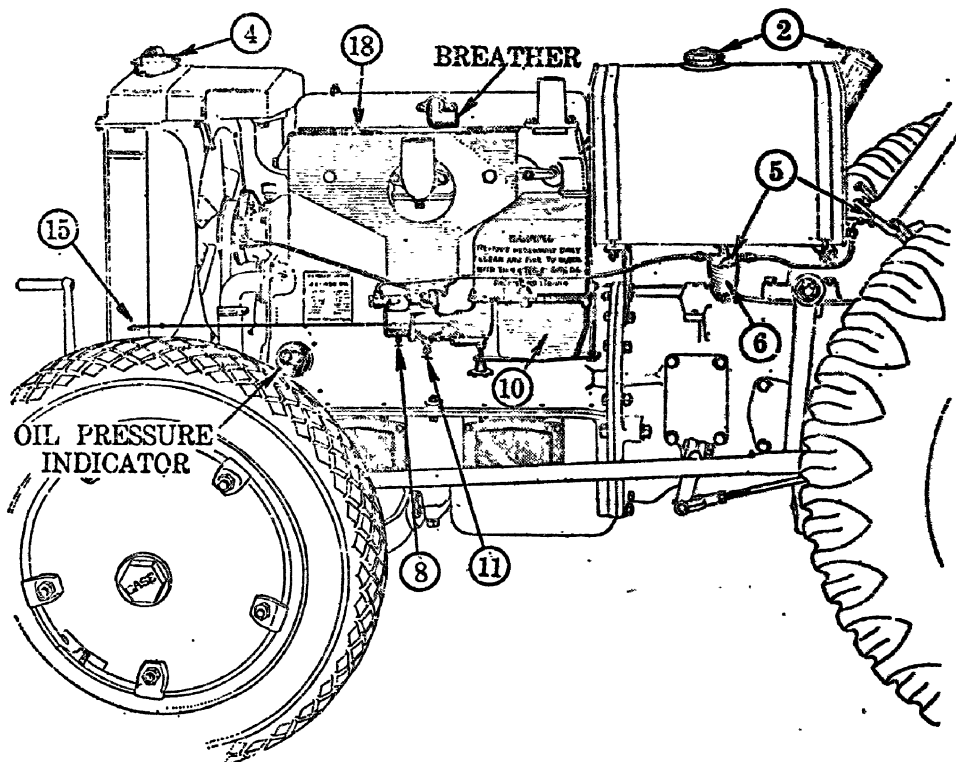


Fig. 1. L. H. Side of Case Model CI Tractor

#### Water.

4. Fig. 1. Fill radiator with clean, soft water (capacity 5 U. S. gallons).

**Do not run the engine for even one minute when unloading or at any time without putting the full quantity of water into the cooling system.**

### WINTER OPERATION

#### Care of Radiator for Winter Operation.

To prevent your radiator from freezing up during winter operation we recommend using the required amount of glycerine or Prestone (Ethyl Glycol). Either are preferred to common alcohol which boils too easily.

If no anti-freeze is to be used be sure to drain your engine each time the engine is stopped for any length of time, otherwise, serious damage will be done to your engine.

#### Water in Crankcase.

When operating tractor in cold weather condensation may form in the crankcase, and if left there it would freeze in the bottom of the crankcase and on screen of oil pump which in turn would rob the bearing of oil and might result in being burned out.

To avoid any danger along this line it is advisable to loosen the oil pan drain plug daily after the tractor has been standing a couple of hours and see if it contains any water. It is not necessary to remove the drain plug, simply back it up until but one or two threads are holding and if crankcase contains water it will drain out.



Our support email:

[ebooklibonline@outlook.com](mailto:ebooklibonline@outlook.com)