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MANUAL PREVIEW

J.I. Case
Operator's Manual

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CA-O-L

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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 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

The steel spade lugs 5 inches high as shown on illustration on page 4 are regularly furnished. These lugs meet all usual conditions.

Fig. 1. 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 6" high which are illustrated in Fig. 1. These lugs are also good when a tractor is pulling disc 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.

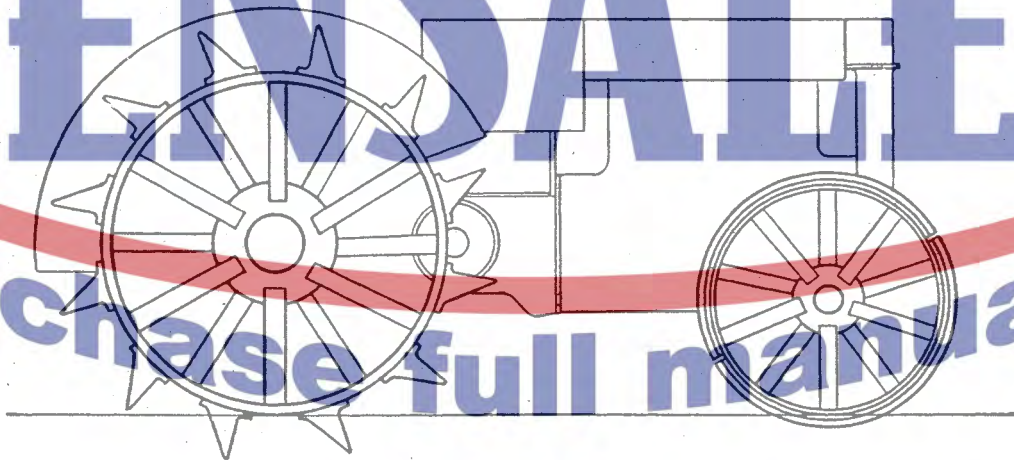


Fig. 1. Spade Lug Equipment

Steel spade lugs of the same shape as the regular lugs but 6 inches high can also be furnished as special equipment.

Use lock washers on bolts attaching lugs to the wheels and tighten all lug bolts again after a few hours use.

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 if soil builds up between lugs.

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

Caution—To remove the oil pan for cleaning it is necessary to drop the radius rod and remove the screen from around the oil pump before hand. Refer to Fig. 7 and instructions as follows:—

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.

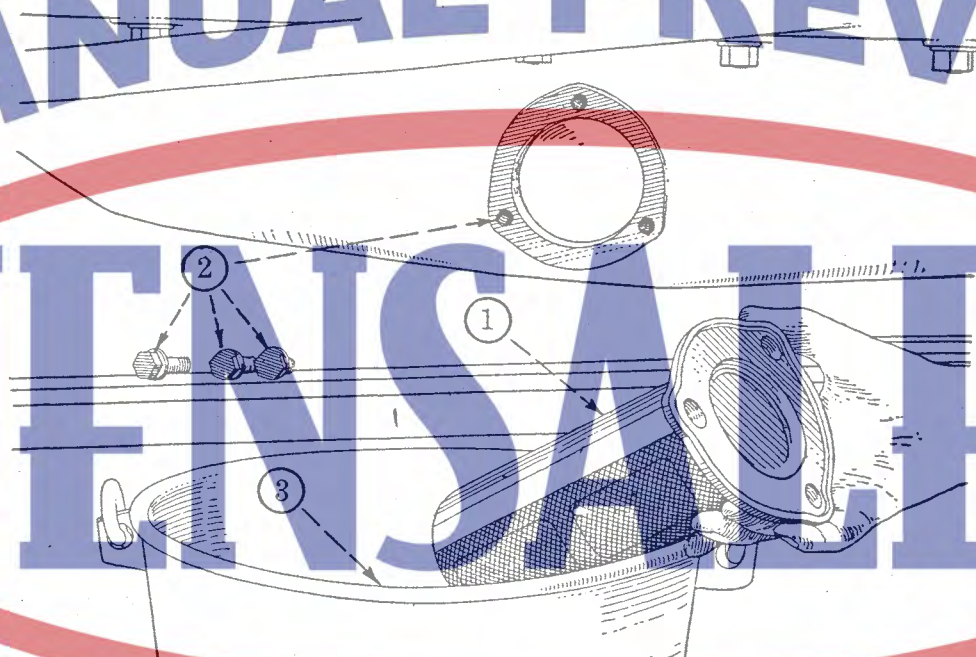


Fig. 7 Cleaning Oil Pump Screen

Oil Pump and Screen—Refer to B Fig. 6, also to Fig. 7.

1. Fig. 7. About every thirty days of operation it is advisable to remove the oil pump screen and clean thoroughly.
2. Fig. 7. To take out screen remove the three cap screws and this will allow withdrawal of the screen and cap as a unit. Be careful to avoid damage to gasket under the cap or to the screen.
3. Fig. 7. Rinse the screen in a pail of gasoline to remove all dirt, water or other foreign matter. A dirty screen will not allow oil to flow to the pump intake and the oil gauge will not show pressure and burnt out bearings will surely result.
4. To remove oil pump (after screen and oil pan are taken off) disconnect oil line connection and remove one cap screw holding pump flange to crank case. The pump can then be taken out as a unit. To inspect pump gears remove the bottom plate from pump.

If it is necessary to replace any part of the oil pump, remove cover and oil pump gear without key way 01183-AB. Then remove oil pump gear with key way 01184-AB by driving shaft upward through the gear. Remove key and the oil pump drive shaft will then slide upward out of bearings. The oil pump shaft gear 01178-AB is keyed and pinned on with a straight pin. Do not remove this gear from shaft unless it is to be replaced.

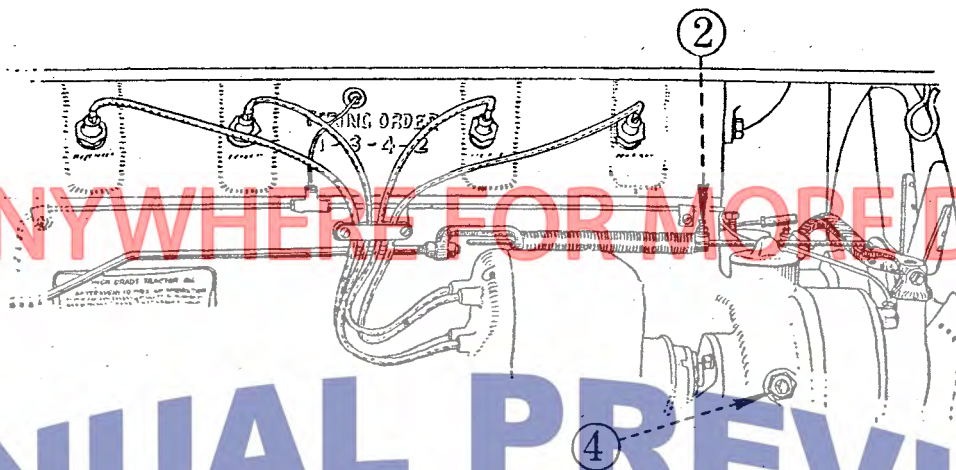


Fig. 14. Governor Adjustment.

GOVERNOR

1. The normal engine speed under load is 1100 R. P. M. This gives a belt pulley speed of 780 R. P. M. The no load speed of the engine is approximately 1200 R. P. M., which gives a no load pulley speed of 860 R. P. M. Check the speed at belt pulley occasionally with an accurate speed indicator, as correct speed should be maintained if tractor is to do its best work.

The throttle can be closed to hold engine speed as low as 600 R. P. M., and the governor will respond as load comes on.

After a few days use, check the speed of belt pulley shaft with a reliable speed indicator and adjust governor if necessary.

2. Fig. 14. The speed is controlled by adjusting tension on governor control spring. If speed is too low, loosen set screw in collar on end of governor spring and put more tension on springs by stretching or moving collar forward. If speed is too high, adjust spring for less tension.

3. Fig. 11. Adjust stop screw at throttle valve on carburetor to secure desired idling speed with throttle closed. See idling adjustment instructions.

4. Fig. 14. The governor holding screw 4, Fig. 14 should be inspected occasionally to make sure that it is tight. Set the locknut up tight after screw is tightened. The screw must be taken out in order to remove governor assembly.

5. If at any time the governor is to be removed, it will be necessary to remove radiator. The removal of any of these parts is very simple and can be accomplished as follows:

Disconnect magneto lever and wires.

Remove magneto from its bracket.

Remove three cap screws fastening magneto base in place.

Remove radiator.

Disconnect oil line, governor control rod and governor rod.

Remove two cap screws and one stud fastening governor housing in place.

Remove governor holding screw shown at 4, Fig. 14. Governor assembly can now be lifted out. In the event it sticks in any way, then tap lightly with a babbitt hammer or some other soft metal. When reassembling be sure that all parts are fastened securely in place, and that magneto is correctly retimed.

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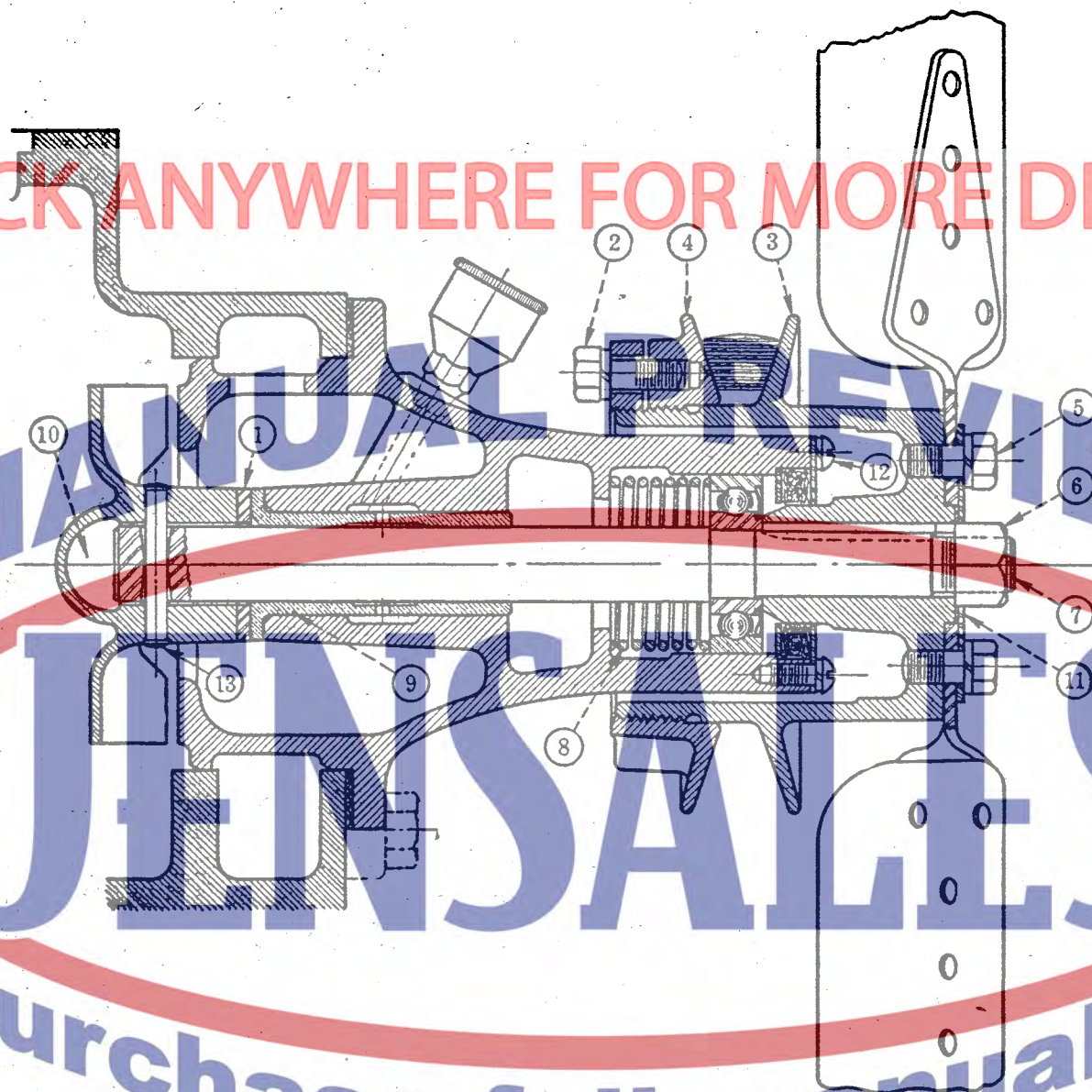


Fig. 15. Fan and Water Pump.

FAN AND WATER PUMP.

This pump is of the packingless type. Leakage is prevented by metal surfaces shown at (1). It requires no attention except proper lubrication and adjustment of the belt.

The pump may leak slightly when new. This will disappear as soon as the metal surfaces become a running fit.

LUBRICATION

To properly lubricate the pump, it is essential to use a special water pump grease, one that will not become fluid at high water temperature. Most reliable lubricating firms supply a grease suitable for water pumps.

The grease cup should be turned down one turn every half day when stopped at noon, and at the end of the days run, or when tractor is to remain idle. Never replace grease cup with pressure oiling fitting.

TIGHTEN DRIVE BELT

NOTE: Remove all spark plug wires to avoid any possibility of the engine starting while working on the fan and water pump assembly.

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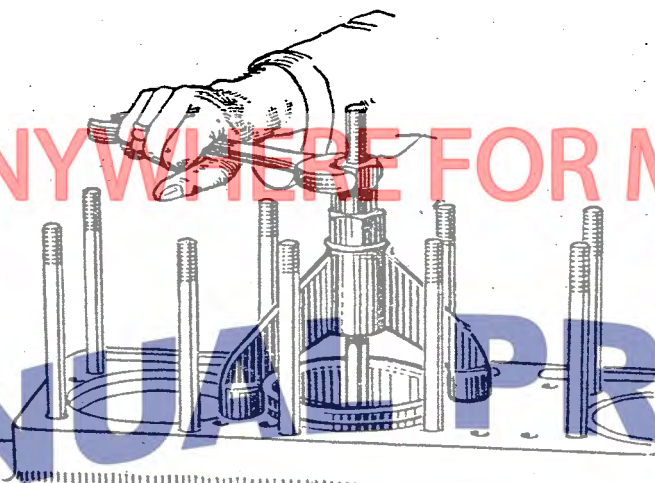


Fig. 19. Removable Cylinder Barrels.

6. Remove the push rods.
7. Remove the cap screws in front end of cylinder head that hold the water elbow flange. Loosen the two nuts that hold the bottom of the radiator at lower outside corners. Remove the nuts from the cylinder head studs.
8. Cylinder head can now be lifted off.
9. Remove the four hand hole covers. Drain oil.
10. Remove connecting rod bolts. Piston and rod assembly can then be removed upward through barrel. The connecting rods are numbered. Note side of engine the numbers appear on.
11. The cylinder barrel puller shown can be ordered from your Case dealer as No. 394-AA for the "L" series and 395-AA for the "C" series. Its use simplifies the operation of removing the barrel as shown.
12. Remove the rubber gasket 6, Fig. 19 and thoroughly clean the lower groove in the cylinder block where the gasket fits. See that the shoulders on barrel and in cylinder block are clean.
13. Put new rubber gasket (6) Fig. 19 down in lower groove of cylinder block. Be sure that gasket is in the groove. Never use the old rubber gasket.
14. Put grease around rubber gasket when it is in place, and put grease around lower edge and outside of lower end of barrel, before putting it in block. Do not fill groove with grease.