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MANUAL PREVIEW

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Operator's Manual

TD-7C

Diesel

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IH-O-TD7C

CONTENTS

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This manual covers the instructions for operation, lubrication, adjustments and maintenance for normal daily care. These instructions are divided into ten sections to simplify your reference to the information most important to you. This manual must be read completely prior to operating this equipment, to gain a full knowledge of the machine and its correct normal maintenance and operation.

Refer to each specific section for a complete list of the subjects covered within the section.

SECTION 1 - INTRODUCTION

This section discusses generally the use of this manual, serial numbers and how to ship or store this machine.

SECTION 2 - BEFORE STARTING THE NEW MACHINE

This section outlines the special procedures necessary to insure proper "break-in" and care of a new machine.

SECTION 3 - INSTRUMENTS AND CONTROLS

The text and illustrations on instruments and controls in this section are designed to tell you "where it is," "what it does" and "how to use it." Read this section carefully.

SECTION 4 - PREPARING FOR EACH DAY'S WORK

This illustrates the few simple preparations before each day's work to assure a "lost-time" free work day.

SECTION 5 - OPERATING THE BASIC MACHINE

This section outlines and illustrates the step-by-step procedures for starting, operating and stopping the basic machine.

SECTION 6 - OPERATING THE TRACTOR EQUIPMENT

This section describes the methods for operating and adjusting the various equipment available with this machine.

SECTION 7 - OPERATING TECHNIQUES

A few operating suggestions and techniques are discussed with simple ideas to help ease the work and lengthen the useful life of your machine.

SECTION 8 - SCHEDULED MAINTENANCE

This section saves money! A complete scheduled maintenance procedure is outlined here - one that assures less down-time and expense, and more profit and work from your machine. Read and use this section - INCREASE YOUR PROFIT through increased machine reliability and availability.

SECTION 9 - MAINTENANCE

Much of the maintenance and adjustment procedures outlined in Section 8 need clear explanation. This section is devoted to explaining the "how to do" in an easy style to help you "do it yourself" and get it right.

SECTION 10 - SPECIFICATIONS AND CAPACITIES

This section covers the capacities, general dimensions and weights, speeds and torques.

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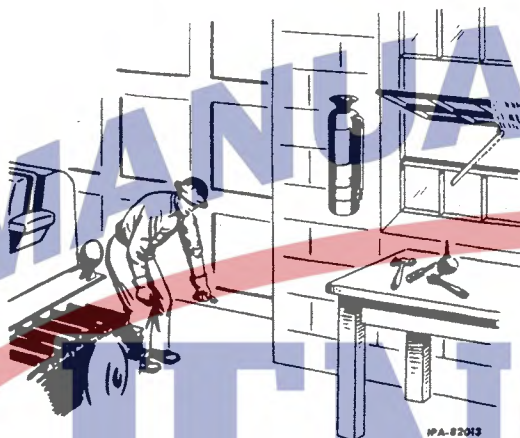
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OPERATING THE BASIC MACHINE

PRECAUTION

CAUTION: FOR PERSONAL PROTECTION, OBSERVE THE FOLLOWING SAFETY PRECAUTIONS.

GEAR DRIVE: Put the transmission gear-shift lever in the neutral position and apply the safety lock latch. Lock the transmission forward and reverse lever in the "NEUTRAL" position.
APPLY AND LOCK THE BRAKE PEDAL



PROVIDE PROPER VENTILATION WHEN OPERATING A TRACTOR IN A CLOSED BUILDING.



CLEAR IMMEDIATE AREA OF PERSONNEL OR OBSTRUCTIONS BEFORE STARTING ENGINE.

When leaving the tractor unattended, always place the transmission in neutral as follows:

POWER SHIFT: Lock the transmission gear selector lever in the "NEUTRAL" position.

GEAR DRIVE: Put the transmission gear-shift lever in the neutral position and apply the safety lock latch. Lock the transmission forward and reverse lever in the "NEUTRAL" position.

APPLY AND LOCK THE BRAKE PEDAL

Never leave the tractor unattended while the engine is running. When parking the tractor, be sure all tractor equipment is positioned or supported to prevent damage or injury possibilities. DO NOT ALLOW A HYDRAULIC SYSTEM TO SUPPORT TRACTOR EQUIPMENT WHEN LEAVING THE TRACTOR UNATTENDED.

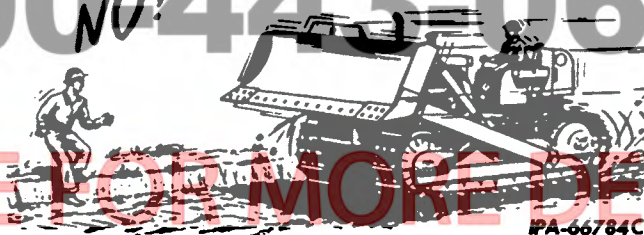
ONLY ONE PERSON, THE OPERATOR, SHOULD BE PERMITTED TO RIDE ON THE TRACTOR WHEN IT IS IN OPERATION.

Use a commercial solvent or kerosene unless otherwise specified for cleaning parts.

Never operate the tractor engine when cleaning or lubricating the tractor.

When it is required to make any check with the engine running, always use two men; one man must be in the operator's seat while the other does the checking. As an added precaution, when making checks with the engine running, place the transmission in neutral as follows:

POWER SHIFT: Lock the transmission gear selector lever in the "NEUTRAL" position.



CARRY BLADE LOW FOR MAXIMUM VISIBILITY.

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TRACTOR EQUIPMENT

MODEL 19 GEARMATIC WINCH

Adjusting the Clutch

The winch is designed for trouble free operation. It will require very little attention. Make it a daily habit to check the winch, line connections, and control valve for signs of oil leakage.

Bleeding the Hydraulic System

Before the initial use of the winch or after repair or replacement of the master control unit, cylinders, or lines, it may be necessary to bleed the hydraulic system.

To bleed the hydraulic system, remove the filler plug from the top of the control valve. Start the engine and run it at idle. Move the master control handle through its entire stroke several times.

NOTE: Do not allow the fluid in control valve to drop too low. Continually check and add fluid as needed during bleeding.

Loosen the brake line at the winch so that air may escape. Move the control handle as far as it will go in the brake release position and then back to the brake applied position. Continue to pump the air out of the system until fluid starts to flow from the fitting. Then hold the lever in the brake release position and tighten the fitting.

Repeat the above procedure for the clutch end of the master control unit until all air has been expelled from the clutch line.

When all air has been expelled from the system, move the control handle to the end of its travel in the brake release position. The drum should now spool freely. To check the clutch engagement, move the control handle to engage the clutch. After a short distance of travel, the control handle should feel solid when 40 to 50 lbs. force is applied at the handle.

If the drum does not free spool when the control handle is in the brake release position or if the control feels "spongy" in the clutch engaged position, repeat the preceding instructions for bleeding the system.

Check the level of brake fluid in the master control unit. If necessary, fill to within one to two inches of the top. Refer to the "LUBRICANT SPECIFICATIONS AND CAPACITIES CHART" in Section 8 for grade oil specified. Replace the filler plug in the control valve.

NOTE: Do not use any fluid other than automotive hydraulic brake fluid.

Adjustment of clutch bands is by cam type adjusters which require only infrequent adjustment as friction material wears. The clutch is adjusted as described below.

Remove the end cap from the right hand side of the winch, refer to Illust. 25. Remove the hydraulic tube (1, Illust. 25) from the end of the drum shaft. Place the tube, still connected to the hydraulic line, at a point above the master control unit so the brake fluid does not leak out of the line.



Illust. 25
End Cap Removed.

1. Hydraulic tube. 2. Clutch cover.

Remove the clutch cover (2, Illust. 25). Be careful not to disturb the setting of the adjusting nut.

Release the adjusting cams (3, Illust. 26) on the primary clutch band (5, Illust. 26) by loosening the screws and rotating the cams until the flat side of each cam is toward the band. Depress the clutch piston rod (1, Illust. 26) and release it from the primary clutch band. The primary clutch band can now be removed.

With the primary clutch band removed, adjust the secondary clutch band (4, Illust. 26) by turning the adjusting cams (2, Illust. 26) with a screw driver inserted in one of the slots in each cam. Set all the cams to give a clearance of .006 to .010 inch between the lining and the inside of the drum. Install the primary clutch