



CLICK ANYWHERE FOR MORE DETAILS

MANUAL PREVIEW

International Harvester Operator's Manual TD-25C

purchase full manual at

Operator's Manual

JENSALES.COM
or Call 800-443-0625



CLICK ANYWHERE FOR MORE DETAILS

THIS IS A MANUAL PRODUCED BY JENSALES INC. WITHOUT THE AUTHORIZATION OF
INTERNATIONAL HARVESTER OR IT'S SUCCESSORS. INTERNATIONAL HARVESTER AND IT'S SUCCESSORS
ARE NOT RESPONSIBLE FOR THE QUALITY OR ACCURACY OF THIS MANUAL.

TRADE MARKS AND TRADE NAMES CONTAINED AND USED HEREIN ARE THOSE OF OTHERS,
AND ARE USED HERE IN A DESCRIPTIVE SENSE TO REFER TO THE PRODUCTS OF OTHERS.

IH-O-TD25C

SECTION INDEX

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. Refer to Table of Contents on next page for a complete list of the subjects covered within each section.

This manual has been prepared to help you operate and maintain your machine with utmost efficiency and safety. Read this manual thoroughly and learn your machine before you attempt to operate it.

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 work day free of "down-time."

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

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.

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.

TABLE OF CONTENTS

PAGE I

	Page
SECTION 1. INTRODUCTION	1
GENERAL	1
SERIAL NUMBERS	1
MACHINE TRANSPORT	2
SHIPPING INSTRUCTIONS	2
MOVING A DISABLED MACHINE	3
MACHINE STORAGE	3
PREPARING FOR STORAGE	3
SERVICING THE ENGINE DURING STORAGE	3
PREPARING FOR OPERATION	4
SECTION 2. BEFORE STARTING THE NEW MACHINE	1
INITIAL SERVICE PROCEDURE	1
LUBRICATION WHEN SHIPPED	2
SECTION 3. INSTRUMENTS AND CONTROLS	1
SECTION 4. PREPARING FOR EACH DAY'S WORK	1
SECTION 5. OPERATING THE BASIC MACHINE	1
CAUTIONS	1
MACHINE PRECAUTIONS	2
STARTING THE ENGINE	3
DRIVING THE POWER SHIFT MACHINE	5
SHIFTING GEARS	6
CONVERTER OVERHEATING	6
DRIVING THE GEAR DRIVE MACHINE	6
SHIFTING GEARS	6
STEERING THE MACHINE	7
LOCKING BOTH TRACKS	7
DOWNGRADE OPERATION	7
OPERATING OVER AN OBSTRUCTION	7
STOPPING THE MACHINE	8
PARKING	8
STOPPING THE ENGINE	10
SECTION 6. OPERATING THE TRACTOR EQUIPMENT	1
GENERAL	1
CONTROL LEVER OPERATION	1
BLADE LIFT CONTROL LEVER	1
LIFT-TILT CONTROL LEVER	1
REAR CABLE CONTROL UNIT LEVER	2
BULLDOZER BLADE POSITIONS	3
TILTING THE BLADE (MECHANICAL TILT)	3
TILTING THE BLADE (HYDRAULIC TILT)	3
PITCHING THE BLADE	3
LEVELING THE BLADE (MECHANICAL TILT)	4
LEVELING THE BLADE (HYDRAULIC TILT)	4
DIAGONAL STRUT ADJUSTMENT	4
ANGLING THE BLADE	5
TILTING THE BLADE	5
LEVELING THE BLADE	6
SECTION 7. OPERATING TECHNIQUES	1
GENERAL	1
DIGGING AND CLEARING	1
TRANSPORTING, PILING OR LOADING	4
BREAKING PILES AND SPREADING	5

TABLE OF CONTENTS

SECTION 8. SCHEDULED MAINTENANCE	1
SCHEDULED MAINTENANCE GUIDE	1
LUBRICATION	4
SELECTION OF LUBRICANTS	4
LUBRICANT SPECIFICATIONS AND CAPACITIES	5
BASIC TRACTOR SERVICE GUIDE (POWER SHIFT)	6
BASIC TRACTOR SERVICE GUIDE (GEAR DRIVE)	8
BASIC TRACTOR SERVICE POINTS	10
TRACTOR EQUIPMENT SERVICE GUIDE (Dozer or Grader Hydraulic Units)	14
TRACTOR EQUIPMENT SERVICE GUIDE (Cushion Dozer)	15
CABLE CONTROL UNIT SERVICE GUIDE	16
CABLE CONTROL UNIT SERVICE GUIDE (Model 260 Cable Control Unit)	17
SECTION 9. MAINTENANCE	1
SEASONAL PREPARATION	1
FUEL SYSTEM	1
LUBRICATION	1
COOLING SYSTEM	1
ELECTRICAL SYSTEM	1
AIR CLEANING SYSTEM	1
PRECAUTIONS	1
PRIMARY FILTER ELEMENT SERVICE	1
SAFETY FILTER ELEMENT SERVICE	3
AIR CLEANER SERVICE INDICATOR	4
SERVICE INDICATOR SAFETY FILTER	4
AIR INTAKE CAP	4
CRANKCASE BREATHER	5
REAR MAIN FRAME BREATHER	5
BELT	5
BELT TENSION	5
ADJUSTMENT	6
REMOVAL AND REPLACEMENT	6
BRAKES	7
ADJUSTMENT	7
CAB WITH AIR CONDITIONING	9
INITIAL COOLING	9
STALE AIR AND SMOKE	10
AIR CONDITIONER	10
AIR CONDITIONER FILTERS	10
COMPRESSOR DRIVE BELTS	11
WINDSHIELD WIPER	11
COOLING SYSTEM	12
CARE OF THE SYSTEM	12
DRAINING THE SYSTEM	12
FILLING THE SYSTEM	13
CLEANING THE SYSTEM	13
ANTI-FREEZE	13
CLEANING THE RADIATOR	14
RADIATOR CAP	14
THERMOSTATS	14
ENGINE OIL COOLER	16
WATER PUMP	16
REVERSIBLE FAN (If Equipped)	16

TABLE OF CONTENTS

PAGE III

DECELERATION ADJUSTMENT	17
CHECKING OPERATION	17
ADJUSTMENT	17
ELECTRICAL SYSTEM	17
PRECAUTIONS	17
ALTERNATOR W/INTEGRAL REGULATOR	17
CRANKING MOTOR	18
INSTRUMENT PANEL LIGHTS	18
CIRCUIT BREAKER	18
STORAGE BATTERIES	18
ENGINE CLUTCH (GEAR DRIVE)	19
CLUTCH ADJUSTMENT	19
CLUTCH PRESSURE FILTER (GEAR DRIVE)	20
CLUTCH SUCTION FILTER (GEAR DRIVE)	21
ENGINE LUBRICATING OIL FILTERS	22
CHANGING THE ELEMENTS	22
ENGINE CYLINDER HEAD	22
ENGINE VALVE CLEARANCE ADJUSTMENTS	22
ETHER INJECTOR (If Equipped)	24
INSPECTION AND CLEANING	24
CHANGING THE ETHER FLUID CONTAINER	24
FUEL SYSTEM	24
GENERAL	24
PRIMING AND VENTING THE FUEL SYSTEM	24
FUEL INJECTION PUMP	25
DRAINING THE FUEL TANK	25
FUEL STRAINER	25
FUEL FILTERS	25
HAND CRANKING	26
HYDRAULIC SYSTEM	28
CHECKING OIL LEVEL	28
DRAINING THE SYSTEM	28
FILLING THE SYSTEM	28
VENTING THE SYSTEM	28
SERVICING THE RETURN FILTERS	30
SERVICING THE SUCTION STRAINER	30
SERVICING THE FILTER STRAINER	31
SERVICING THE STEERING PUMP SUCTION FILTER	31
SERVICING THE RESERVOIR FILTER BREATHER	32
HYDRAULIC LIFT OR TILT CYLINDER PACKINGS	32
SEAT BELT (If Equipped)	32
ADJUSTING THE BELT	32
SPROCKET DRIVE LUBRICATION SYSTEM	32
GENERAL	32
DRAINING THE SYSTEM	32
SPROCKET DRIVE OIL FILTERS	32
REPLACEMENT	33
FILLING THE SYSTEM	33
TRACK	33
TRACK SHOE BOLTS	34
PROPER TRACK ADJUSTMENT	34
CHECKING TRACK TENSION	34
ADJUSTING TRACK TENSION	34
TRACTOR EQUIPMENT	35
COMPLETE BLADE REMOVAL	35
CUTTING EDGE AND END BITS	36

TABLE OF CONTENTS

CLICK ANYWHERE FOR MORE DETAILS

STEEL CABLE	36
CABLE CONTROL UNIT	37
TRANSMISSION OIL FILTER (GEAR DRIVE)	40
TRANSMISSION AND TORQUE CONVERTER OIL FILTERS (POWER SHIFT)	41
PRESSURE FILTERS (POWER SHIFT)	41
SUCTION FILTER	42
TURBOCHARGER	42
PRECAUTIONS	42
PRIMING THE TURBOCHARGER	42
SECTION 10. SPECIFICATIONS AND CAPACITIES	1
TORQUE VALUES FOR STANDARD FASTENERS	6
TORQUE VALUES FOR HOSE CLAMPS	6
TORQUE VALUES FOR SPLIT FLANGE CONNECTIONS	7

MANUAL PREVIEW

JENSALES®

purchase full manual at

JENSALES.COM
or Call 800-443-0625

CLICK ANYWHERE FOR MORE DETAILS

PREPARING FOR EACH DAY'S WORK

SECTION 4
Page 1

1. Fuel Tank Drain Valve (Fig. 1). Open the drain valve and drain water and sediment from the tank until clean diesel fuel appears; close the valve.

2. Fuel Shut-Off Valve (Fig. 1). Open the shut-off valve. To prevent leakage from valve when open, screw the needle stem out until the seat of the stem is tight against the stop.

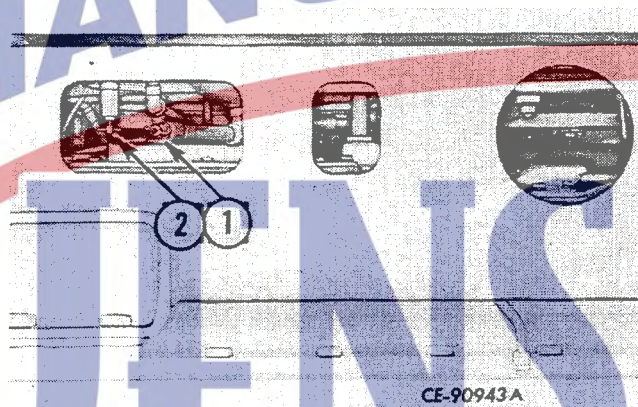


Fig. 1

4. Air Intake Cap (Fig. 3). Loosen the screw on the clamp and remove the cap (twist and pull upward). Clean the screen with compressed air or wash in clean hot water preferably containing a small amount of nonsudsing detergent.



Fig. 3

3. Coolant Level (Fig. 2). Correct level should be one inch above the baffle; if low, add coolant.

NOTE: Do not operate the engine before checking the coolant level.



Fig. 2

5. Air Cleaner Dust Unloader (Fig. 4). Squeeze or remove the dust unloader to be sure it is open and contains no obstructions.



Fig. 4

SCHEDULED MAINTENANCE

Item 8 — Hydraulic System Drain Plug

Drain the hydraulic system oil and refill with clean lubricant. Refer to "HYDRAULIC SYSTEM" in Section 9.

Item 9 — Hydraulic Reservoir Oil Level Checking

1. Park the machine on level ground, lower the blade to the ground, release the control lever and stop the engine.



CAUTION: Always loosen the filler cap slowly in case there still is some pressure in the system.

2. Check oil level at sight gauge on side of reservoir. Add oil if level is below center line of sight gauge. Refer to "HYDRAULIC SYSTEM" in Section 9.

Item 9A — Hydraulic Reservoir Filler Strainer

Clean the strainer. Refer to "HYDRAULIC SYSTEM" in Section 9.

Item 9B — Hydraulic Reservoir Return Filter

Replace the element with new. Refer to "HYDRAULIC SYSTEM" in Section 9.

Item 9C — Hydraulic Reservoir Filter Breather

Replace or clean. Refer to "HYDRAULIC SYSTEM" in Section 9.

Item 10 — Track Frame Pivot Ball

(One on each side). Apply the lubricator to the fittings until clean lubricant appears.

Item 11 — Sprocket Drive Spin On Oil Filters (Fig. 4)

Change. Refer to "SPROCKET DRIVE LUBRICATION SYSTEM" in Section 9.

Item 12 — Sprocket Drive Oil

The lubricant in each sprocket drive housing must be changed at least once a season, or as required by temperature change, even if the 1000 hour operation period has not been reached. (One on each side.)

1. While the lubricant is at operating temperature, park the machine on level ground.

2. Remove the drain plugs and allow the lubricant to drain. Install the drain plugs.

3. Remove the filler and level plug. Fill the housing with fuel oil up to the filler and level plug opening. Install the plugs.

4. Operate the tractor in low gear (with no load) for a few minutes.

5. Remove the drain plugs and thoroughly drain the fuel oil. Reinstall the drain plugs.

6. Remove the filler and level plug. Fill the housing with fresh lubricant up to the bottom of the filler and level plug opening. Refer to the "LUBRICANT SPECIFICATIONS AND CAPACITIES CHART" in this section for the quantity and grade oil specified.

7. Reinstall the filler and level plug.

Item 13 — Sprocket Drive Oil Level

(One on each side.) Position the tractor on level ground. Remove the filler and level plug, check the lubricant. If the lubricant is low, fill to the plug opening. Install the plug.

Item 14 — Track Frame Diagonal Brace Bearings

(Two fittings.) Apply the lubricator to the fittings until clean lubricant appears.

Item 15 — Rear Main Frame Breather (Fig. 4)

Remove the bottom seat cushion. Remove the breather and replace it. Reinstall the bottom seat cushion.



Fig. 4

1. Rear Main Frame Breather 3. Sprocket Drive Oil Filters
2. Primary Filter

Item 16 — Fuel Tank Water Drain

Drain water. Refer to "FUEL SYSTEM" in Section 9.

Item 17 — Rear Main Frame Oil

NOTE: Gear Drive: The rear frame is the common reservoir for the transmission and planetary steering drive. Power Shift: The rear frame is the common reservoir for the transmission, torque converter and planetary steering drive. The lubricant in the rear frame must be changed at least once a year, or as required by temperature change, even if the 1000 hour operational period has not been reached.