



International
Harvester
Operator's Manual

E-200
Elevating Scraper

JENSALES.COM

or Call 800-443-0625



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IH-O-E200SCPR

Operator's Manual

Operation & Maintenance

Manual

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MANUAL PREVIEW

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E-200

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ELEVATING SCRAPER

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SERIAL NUMBERS **E-200 - 2100** and below

or Call 800-443-0625

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MODEL E-200

**ELEVATING
PAY® SCRAPER**

**SERIAL NUMBER
5380001U002100 and below**

**FORM
OM-E200-1 (Rev.1)**

(Supersedes FORM OM-E200)

TECHNICAL PUBLICATIONS

An Operator's Manual and a Parts Catalog are packed and shipped with this machine for customer use. Additional technical publications are available for this machine, at a nominal cost, through your authorized International Construction Equipment distributor or dealer. This material includes Service Manuals and Technical Training Courses.

These additional publications are strongly recommended for the customer who performs his own maintenance and service on this equipment.

It is the policy of International Harvester Company to improve its products whenever it is possible and practical to do so. We reserve the right to make changes or add improvements at any time without incurring any obligation to make such changes on products sold previously.

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CONTENTS

This manual covers the instructions for operation, lubrication, adjustments and maintenance for normal daily care. These instructions are divided into nine sections to simplify your reference to the information most important to you. This manual must be read completely prior to operating this machine, 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.

1

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.

2

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.

3

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.

4

SECTION 5 - OPERATING THE MACHINE

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

5

SECTION 6 - 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.

6

SECTION 7 - 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.

7

SECTION 8 - MAINTENANCE

Much of the maintenance and adjustment procedures outlined in Section 7 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.

8

SECTION 9 - SPECIFICATIONS AND CAPACITIES

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

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INTRODUCTION

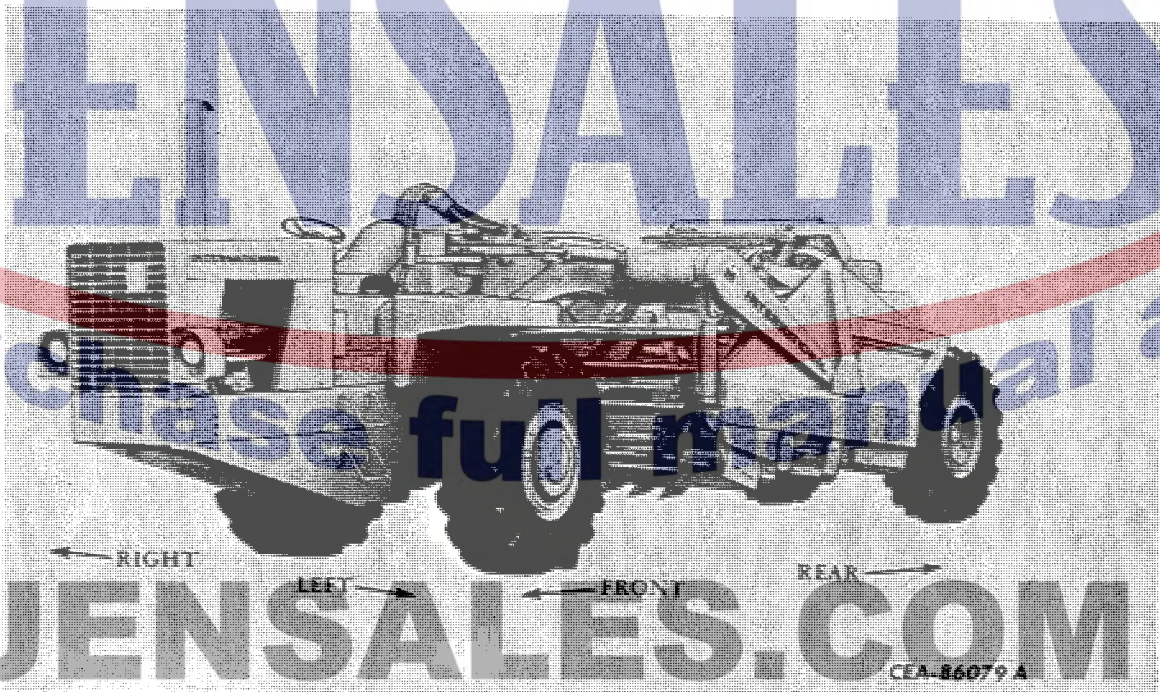
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GENERAL



Illust. 1
MODEL E-200 Elevating PAY scraper.

or Call 800-443-0625

INTRODUCTION

Section 1

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GENERAL

Any cross references in this manual are to a specific section of the manual. Refer to first page of that section for a list of the section contents.

Some illustrations are of general application of this model and may not show your machine accurately in all details.

Throughout this manual the use of the terms "left", "right", "front" and "rear" must be understood to avoid confusion when following instructions. "Left" and "right" indicate the left and right sides of the machine, when facing forward in the operator's seat. See Illust. 1.

SERIAL NUMBERS

A number plate (Illust. 2) is mounted on the LH side of the instrument panel housing.

For convenience, this plate lists the serial numbers of the PAY scraper, engine, transmission, differential and torque converter or clutch.

The engine serial number is also stamped on a pad on the LH side of the crankcase below the cylinder head air intake elbow.

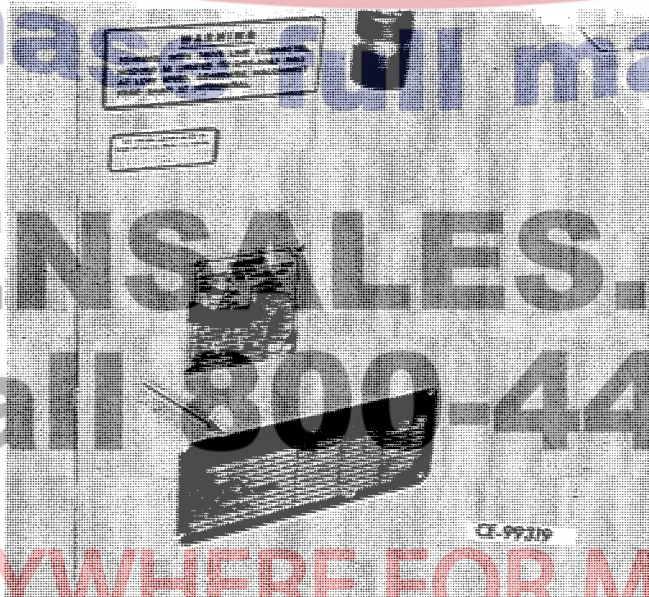
The PAY scraper serial number is also stamped on the upper left hand corner of the rear side of the Fifth Wheel Main Frame rear mounting plate.

Use serial numbers when requesting information or ordering parts.

For ready reference, write these serial numbers in the spaces provided.

Engine Serial Number _____

PAY scraper Serial Number _____



Illust. 2
Number Plate.

INTRODUCTION

Section 1

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MACHINE STORAGE

When the machine is not to be used for a period of time, it must be stored in a dry and protected place. Leaving equipment outdoors exposed to the elements will materially shorten its life.

Follow the procedure below when the machine is placed in storage for 30 days or more. The machine must be lubricated every six months. Use caution when starting an engine that has been in storage. Refer to the instructions under "PREPARING STORED MACHINE FOR SERVICE" in this section.

1. Thoroughly wash or clean the machine.
2. Completely lubricate all points of the machine as outlined in the "LUBRICATION GUIDES" in Section 7.

3. Drain off the water from the fuel tank. Close the drain valves.

NOTE: Be sure fuel tank contains minimum of five to ten gallons of approved diesel fuel.

4. Service the transmission as follows:

- a. Operate the machine until the transmission oil temperature reaches $+150^{\circ}\text{F}$ (converter oil temperature gauge pointer is one-third of the way into the "WHITE" area); then drain the transmission oil.

- b. Apply the brakes on the machine, start the engine and stall the torque converter at 1000 rpm for 20 seconds to purge the remaining transmission oil from the converter. Stop the engine and install the transmission drain plug.

- c. Fill the transmission to the operating level with a commercial preservative oil which meets government specifications MIL-L-21260, Grade-1.

- d. Operate the machine for at least five minutes at a minimum of 1000 engine rpm. Energize the clutches; then stall the converter to raise the oil temperature to $+225^{\circ}\text{F}$ (converter oil temperature gauge pointer is three-fourths of the way into the "WHITE" area).

- e. As soon as the transmission is cool enough to touch, remove the transmission breather and seal the transmission breather opening.

5. Continue to run the engine for another five minutes. During this time, the machine must be moved to the storage location.

6. Completely lower the bowl and fully return the ejector gate.

7. If the cooling system will be exposed to freezing temperatures during storage and water only was used during operation, the cooling system must be drained and refilled with an anti-freeze solution while at operating temperature. Refer to "COOLING SYSTEM" in Section 8, to select a solution suitable for the lowest temperature that the cooling system will be exposed to during storage.

NOTE: If anti-freeze solution is not used, the residual water retained by capillary attraction inside the cooler passages must be blown out with dry compressed air through the drain cock on the cooler. **DO NOT RELY ONLY ON DRAINING THE WATER.**

8. Clean and remove the valve housing cover; then flush the valves, rocker arms and push rods with Grade-30 lubricating oil. (If any evidence of rust is found, remove it before lubricating.) Use a paint brush to coat the inside of the valve housing cover with Grade-30 lubricating oil.

9. Remove the injection nozzles. Spray about one ounce of Grade-30 lubricating oil into each cylinder. Crank the engine two or three revolutions. Clean the nozzles seats and reinstall the injection nozzles. Reinstall the valve housing covers.

10. Completely service the air cleaner. Refer to "AIR CLEANING SYSTEM" in Section 8.

11. Remove and service the hydraulic reservoir breather. Refer to "HYDRAULIC SYSTEM" in Section 8. Store the breather in a carton. Seal the breather opening.

12. To prevent dirt or moisture from entering the engine, plug up the end of the breather pipe. Remove the air cleaner weather cap; cover the air intake pipe. Seal the exhaust pipe rain cap.

13. Remove the batteries and store them in a cool dry place above freezing ($+32^{\circ}\text{F}$). The batteries must be fully charged at the time of storage. Check the batteries at least once a month for water level and specific gravity. Batteries must never be allowed to run down below 3/4 full charge while in storage.

14. Open the air tank drain valve.

15. Coat the exposed portions all cylinder rods and control valve spools with chassis grease.

16. If it is desirable to leave the tires on the machine, jack the machine up and place it on blocks with the tires in suspension. Deflate, then cover the tires.