



Hough Service Manual H-80A

Front End Loader Chassis Only

Service Manual

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HO-S-H-80A

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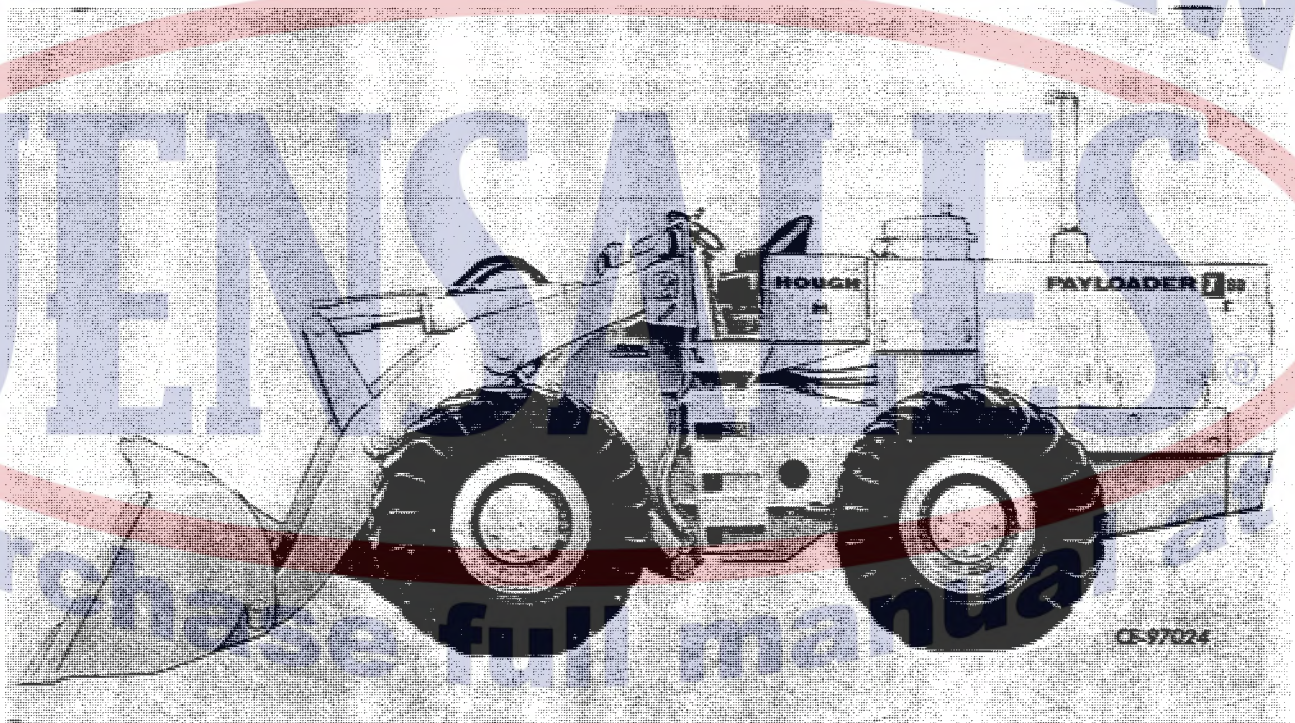
GENERAL

The instructions contained in this service manual are for the information and guidance of servicemen responsible for the overhaul and repair of the Model H-80A PAY loader.

This manual provides the serviceman with fast, convenient reference to information on operation, maintenance and repairs, as well as descriptions of the major units and their func-

tions in relation to other components of the PAY loader.

Each section of the manual is provided with a contents page, and where applicable, a paragraph showing special torques and specifications necessary for inspection and/or assembly. A general specification table and a standard torque chart are provided in this section.



Model H-80A

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INTRODUCTION

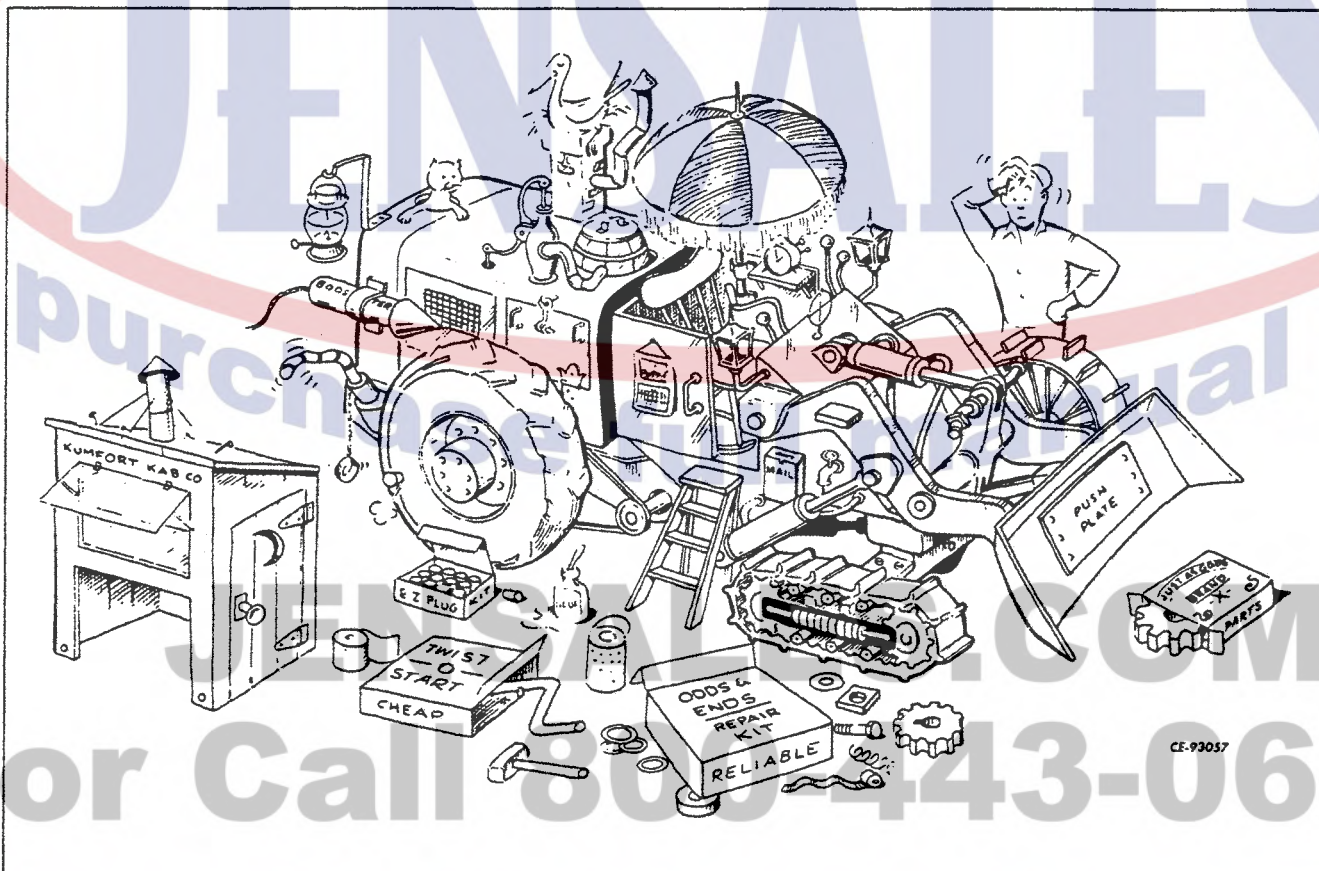
LUBRICATION

Instructions on the lubrication of each assembly are given in the Lubrication Chart in the Operator's Manual. When assembling any parts, always coat all wearing surfaces with the lubricant specified in the chart. Except for such installations as taper pins, etc. whose surfaces should be clean and dry, use sufficient quantities of lubricant to prevent any danger of seizing, scoring or excessive wear when the assembly is first operated. Failure to provide "starting lubrication" may result in serious damage.

SERVICE PARTS

IH and Hough Construction Equipment deserves genuine service parts. The best material obtainable and experience gathered through many years of manufacturing power equipment, enable International and Hough to produce quality that will not be found in imitation or "just as good" repair parts. No serviceman can afford to guarantee a repair job that is not serviced with genuine IH and Hough parts. No owner should be satisfied with other than genuine parts.

For the correct service parts to be used on a machine, always refer to the parts catalog for that particular machine. The loose-leaf parts catalogs are accurate and are continually being brought up-to-date by the issuance of new pages covering any changes in part numbers.



Don't be Confused - Use Genuine IH and Hough Service Parts.

SERIAL NUMBERS

The tractor serial number plate is stamped on a plate and located on the left front side of the operator's compartment.

The IH diesel engine serial number is stamped on the left side of the block above the front push-rod cover.

The Cummins diesel engine serial number is stamped on a plate located on the bottom, right hand side of the engine.

ENGINE

The Model H-80A PAY loader may be equipped with a IH DT-429 diesel engine or a Cummins CS-464C diesel engine. Instructions for removal and installation of the engines are covered in this manual. For detailed information on overhauling and adjusting the IH DT-429 diesel engine, refer to Service Manual ISS-1503D.

ENGINE WARRANTY

International and Hough make no warranty in respect to the Cummins diesel engine in the Model H-80A PAY loader. The Cummins engine is warranted by the Cummins Engine Company, Inc., Columbus, Indiana. Servicing of the Cummins engine during the warranty period is to be handled by the Cummins distributor or dealer in your locality.

DIESEL FUEL SYSTEM

If detailed information on the fuel system of the IH DT-429 diesel engine is desired, refer to the Injection Pump Manual, ISS-1042.

If detailed information on the fuel system of the Cummins CS-464C diesel engine is desired, refer to the distributor or dealer in your area.

SERVICE TOOLS

The design of IH and Hough Construction Equipment machines requires a minimum of service tools other than those in the mechanic's tool kit. Whenever the application of inexpensive special service equipment will facilitate work, it is shown. Otherwise, it is assumed that servicemen will select from their tool kits as required. Information regarding special tool equipment is given in the "Service Tool Manual" ISS-1002. The IH and Hough Construction Equipment distributors have most of this equipment and are in an excellent position to service these PAY loaders.

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INTRODUCTION

GASKETS AND SEALS

Always use new gaskets and seals. When installing a leather seal, be careful to install it as specified in the instructions. Be extremely careful not to damage the seal in any way during installation.

Do not "roll" an "O" ring seal during installation. To correctly install the "O" ring, position the ring at one point and using a blunt, narrow tool, stretch the "O" ring into position (refer to Fig. I-1).



Figure I-1
Correct "O" Ring Installation.

RECOMMENDED BEARING PROCEDURES

NEW BEARINGS

Keep bearings in original cartons or wrappings until ready for use. If package is opened and bearing is not used immediately, protect it by re-wrapping.

Before wrapping and packing, bearings are carefully cleaned by the manufacturer and are thoroughly coated with a protective lubricant.

Keep bearings clean and away from moisture.

Handle bearings with clean hands and use clean tools. Handle bearings as little as possible. Finger marks are hard to wash off and perspiration starts corrosion.

Don't wash the oil or grease out of a new bearing.

Don't take new bearings apart. They were assembled correctly in the first place.

BEARING REMOVAL

Wash off bearing housing; take care to prevent loose dirt from entering the housing.

Take a few moments to study the assembly. Determine the best way to undertake bearing removal.

Be careful and avoid damage. The bearings may be good enough to use again.

The best tool for removing a bearing is usually an arbor press. Most field work however, is done with some type of bearing puller. Where required, this manual will refer to the correct tool to employ. Use it for speed and safety.

To remove a bearing, press or pull only on the race that is tight.

Press or pull straight and square to keep the race from cocking and scoring the shaft or damaging the bearing.

Never press or pull against bearing shields or separators.

Keep the press table and support blocks clean and square. Provide some means to keep the shaft from falling on the floor. Protect the end of the shaft with a pad of lead, copper or other soft metal or a hardwood block.

Use pullers properly. Set them up so that they will push or pull straight and square. Take care not to damage shaft threads, keyways or shoulders in the process.