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OWATONNA MANUFACTURING COMPANY, INC.
Owatonna, Minnesota

OMC - 1095

INTRODUCTION

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This service manual is published as a guide and reference to assist the service department in

repair of the Hydrostatic transmission used on the Owatonna 440 Mustang Loader. It is

suggested that the service department read the service instructions as outlined in this manual

and handle any repair on the units accordingly. These instructions, if followed will insure

dependable repairs of any unit for peak performance and reliability.

Minor repairs are those that can be performed without removal of the end cap and can be accomplished without effecting the unit warranty.

Major repairs are those requiring the removal of the end cap. Major repairs may effect the unit warranty; therefore, the equipment manufacturer should be consulted prior to undertaking such repairs.

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SECTION VII: MINOR REPAIR PROCEDURES

Replacement of Shaft & Trunnion Seals

Lip type seals are used throughout these transmissions. These seals can be replaced without major disassembly of the transmission; however, replacement of either the input or output seal requires removal of the transmission from the machine.

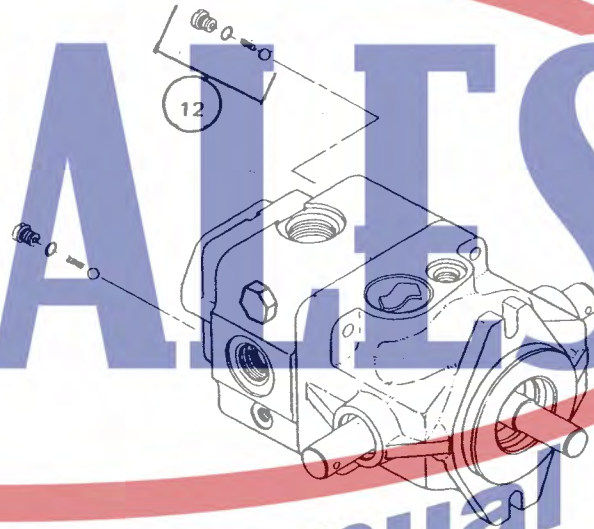
Pry the seal carefully out of the housing bore, using care not to distort the housing or damage the bore or shaft. Once removed the seal is not reusable.

Prior to installing the new seal, polish the shaft extension, wrap it in thin plastic and lubricate with clean hydraulic oil to insure the seal is not damaged during assembly. Slide the seal over the shaft and press into housing bore.



Charge Check Valves

Remove slotted head plug (12) then slide the spring and ball out of the end cap. Inspect the ball and the mating seat in the end cap for damage. Remove any foreign material in the valve area. Replace as a unit if damage is apparent and reinstall into end cap. In some instances the plugs may not clear the charge pump housing. If this happens, remove the four(4) screws holding the housing to the pump and rotate it out of the way. Be certain to keep proper orientation of charge pump housing to insure correct rotation.



Charge Relief Valve

Remove plug (11) then slide the spring and poppet out of the end cap. Do not alter the shims or interchange parts with another valve. Inspect the poppet and seat in end cap for damage and remove any foreign material in the valve area. Replace as a unit if damage is apparent and reinstall into end cap bore.

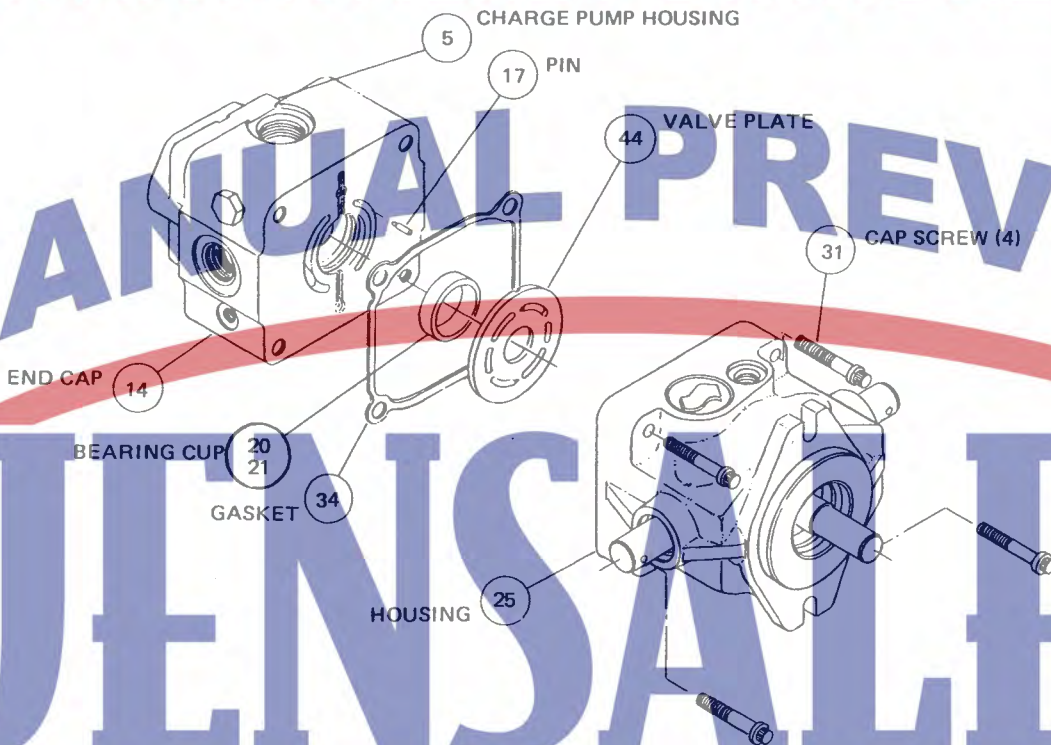


High Pressure Relief Valve

Unscrew the high pressure relief valve (10) from the pump end cap. Inspect valve and seat in end cap for damage and remove any foreign material in the valve area. Replace parts as required and reinstall into end cap bore.

SECTION VIII: MAJOR REPAIR PROCEDURES

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VARIABLE DISPLACEMENT PUMP ASSEMBLY

Insert locating pin(17) and bearing cup (20 & 21) into end cap (14). Lubricate the slotted side of the valve plate (44) and slip it over the locating pin and protruding bearing race.

Place the gasket (34) on housing, then install the end cap and valve plate. Hold the valve plate so it does not drop off during assembly.

Install four (4) cap screws (31), and tighten alternately until the end cap and housing are pulled completely together. Torque screws to 45-57 foot lbs. Check for proper internal assembly by rotating pump shaft while tightening these screws.

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