

PARTS & SERVICE NEWS

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SUBJECT: INTRODUCTION OF IMPROVED PISTON ROD AND NUT FOR S/T CYL. ON WA300-3 BLADE SPEC.

PURPOSE: To introduce improved piston, piston rod and nut which work to enhance the reliability of the steering cylinder on WA300-3 wheel loaders equipped with the snow plowing blade

APPLICATION: WA300-3 Wheel Loaders, Serial Nos. 50001 thru 55114

FAILURE CODE: H1XC01

DESCRIPTION:

1. Introduction

This Service News will introduce improved piston, piston rod and nut which work to enhance the reliability of the steering cylinder against abnormally large internal pressure occurring when the snow plowing blade installed on the WA300-3 wheel loaders hits a solid mass while the machine is in snow removal.

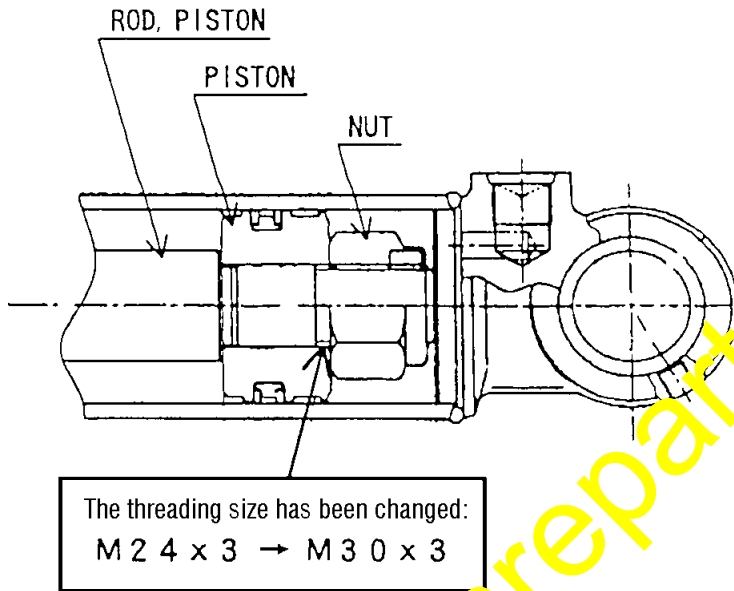
2. List of parts

Part No.	Part Name	Qty	Remarks
707-59-40091 (707-59-40090)	Rod, piston (Rod, piston)	2 (2)	These parts can be supplied in a set of Item Nos. 1, 2 and 3.
707-36-70270 (707-36-70160)	Piston (Piston)	2 (2)	
07165-13033 (07165-12426)	Nut (Nut)	2 (2)	
707-44-70180 (707-44-70180)	Ring piston (Ring piston)	2 (2)	New part and current part are identical. (no change)

3. Contents of the modification

We increased the strength of the piston rod against the tensile strength occurring from the internal pressure by enlarging the threading size on the piston rod of the cylinder.

Threading sizes on the piston rod	
Before the modification	After the modification
M24 × 3	M30 × 3



No.	Part names	Part numbers	
		After the modification	Before the modification
1	Rod, piston	707-59-40091	707-59-40090
2	Piston	707-36-70270	707-36-70160
3	Nut	07165-13033	07165-12426

Note: The current parts and new parts are interchangeable in a set of Item Nos. 1, 2 and 3.

4. Replacement procedures

Replace the steering cylinder parts referring to the Section "Removal and Installation of Steering Cylinder Assembly" and Section "Disassembly and Assembly of Steering Cylinder Assembly" in the Shop Manual.

Nonetheless, tighten the new nuts 07165-13033 (width across flats: 46 mm) at a tightening torque within the range of 785 ± 78.5 Nm (80 ± 8 kgm).

Meanwhile, replace the piston rings 707-44-70180 with new parts.

Also, when permanent fatigue setting or damages are found with seals and packings, replace them with new parts.

[Reference] Part numbers of the steering cylinder servicing kits (2 kits/machine)

#50001 thru 53139: 707-99-14610

#53140 and up: 707-99-14750