

PARTS & SERVICE NEWS

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SUBJECT: PRECAUTION ATTACHMENT ASSEMBLY AT SITE ON WA700, WA800, WA900

PURPOSE: To introduce precautions when locally installing the work equipment to a large-sized wheel loader, Model WA700, WA800 or WA900.

APPLICATION: WA700 Wheel Loaders } All the wheel loaders to which the work
 WA800 Wheel Loaders } equipment is installed locally.
 WA900 Wheel Loaders }

DESCRIPTION:

1. Introduction

With the large sized wheel loaders namely, Models WA700, WA800 and WA900, the work equipment is shipped separately for transportation reasons and such work equipment is to be installed to the vehicle locally.

When installing the work equipment to the vehicle locally, it is necessary to apply "LM-P: molybdenum disulfide paste (with the molybdenum disulfide content of 50% or more)" (the brand name of the molybdenum disulfide paste being used in our factories: Dow-Corning's Molycoat G) on the bore surface of the bushings before inserting pins. Otherwise, galling occurs between the pin and bushing in an earlier stage. This Service News will therefore introduce precautions when installing the work equipment locally.

Note: Since application of the "LM-G: molybdenum disulfide grease (with the molybdenum disulfide content of 3% or more)" is insufficient to prevent galling between the pin and bushing, always use "LM-P: molybdenum disulfide paste".

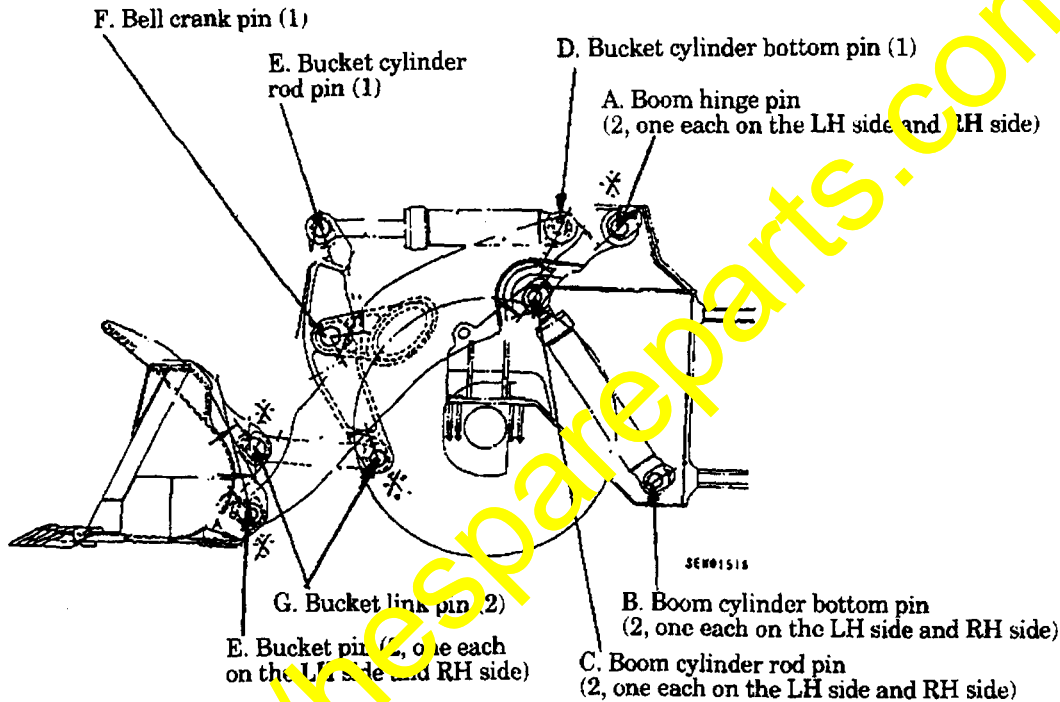
2. Local installation procedures

With the WA700, WA800 and WA900 wheel loaders, when inserting any pin of the work equipment, it is necessary to apply "LM-P" (molybdenum disulfide paste) to the relevant bushing and seal.

Meanwhile, as for the pinned sections assembled in our factory before shipment, the "LM-P" (molybdenum disulfide paste) has already been applied and it is not necessary to apply the paste when making this local installation work.

However, as for pinned sections assembled locally, be sure to apply the "LM-P" (molybdenum disulfide paste) before inserting respective pins.

Galling more tends to occur between the pin and bushing combinations marked "※" in the schematic diagram below and pay extra attention to these sections.



Precautions when inserting pins

- ① Thoroughly clean the bore surface of the bushings and the peripheral surface of the pins.
- ② Apply "LM-P" (molybdenum disulfide paste) to the bore surface of a bushing and rub to spread it evenly over the bore surface.
- ③ When inserting a pin, apply grease to the seal to protect it from damage before inserting the pin very carefully.
- ④ After finishing insertion of a pin, grease the mating surfaces using "LM-G" (molybdenum disulfide grease).
- ⑤ When the installation work is finished, move the work equipment carefully at an intermediate speed to run-in.

After finishing running-in and after making sure everything is normal, apply the "LM-G" (molybdenum disulfide grease) once again.

Reference: Each vehicle being shipped from our factory is being provided with a can (500g) of "LM-P" (molybdenum disulfide paste) and 10 liters of "LM-G" (molybdenum disulfide grease), in a separate package.

3. **Precautions when making repair work of the work equipment**
When pins and bushings have been replaced for repair, follow the same procedures outlined above. (Refer to the "Precautions when inserting pins")
4. **Difference between the LM-P and LM-G (Extract from the KES)**
- LM-P: a molybdenum disulfide paste
(With a molybdenum disulfide content of 50% or more. It works to avoid galling which may occur during assembly work or while running-in, and to prevent seizure which may occur afterwards.)
 - LM-G: a molybdenum disulfide grease
(With a molybdenum disulfide content of 3% or more. It works to suppress wear occurring on the sliding surfaces.)
5. **Reference brands of the "LM-P" (molybdenum disulfide paste) (Extract from the KES)**

	Dow-Corning	Nihon Molybdenum	Sumiko Lubricant	Daito Shoji
LM-P	MOLYCOAT G (The brand used in our factories)	Nichimoly Paste P	Moly Paste K	LM-49 HD Compound F

6. Consult the Local Assembly Procedures Manual and Shop Manual regarding work equipment installation procedures not referred to in this Service News.