| | COMPO | NENT CODE 77 |
|--------------|---------|-------------------|
| INSTALLATION | REF NO. | BA03001A |
| MANUAL | DATE | December 08, 2003 |
| | (C) | Page 1 of 4 |

This Parts & Service News supersedes the previous issuance, BA03001, dated January 06, 2003. BA03001 should be discarded.

SUBJECT: INTRODUCTION OF BRASS BUSHING KITS FOR WORK EQUIPMENT **PURPOSE:** To introduce high strength brass bushing service kits for the work equipment

pinned joints.

APPLICATION: Komatsu Wheel Loaders: WA800-2: 10001 & Up WA800-2L: A20001 - A20020; WA800-2LC: A20021 & Up; WA800-3: 50001 & Up; WA800-3LC: A50001 & Up; WA900-1: 10001 & Up; WA900-1L: A20001 - A20007; WA900-1LC: A20008 & Up; WA900-3: 50001 & Up; WA900-3LC: A50001 & Up

FAILURE CODE: 771BFC

DESCRIPTION: Bushing Kit (XK0291), Bushing Kit (XK0293), Bushing Kit (XK0295)

Three kits have been developed that contain brass Fushings for work equipment pinned joints on the specified wheel loaders. The new bushings are more resistant against scuffing and seizure occurring from an unanticipated shortage of grease due to me of manual greasing, or malfunctions of the automatic lubrication system. However, the degree of wear during normal use (and lubrication) will be higher than those of the steel bushings. If the residue no problem at present with regular lubrication of the joints as specified in the Operation and Maintenance Manual, it is not advantageous to use the new brass bushings. Refer to Figure 1 for a look at the wear trend during normal lubrication. Tables 1 - 3 contain listings of the contents of each kit. Refer to installation of Bushings And Seals, in this bulletin, for important guidelines to observe when installing the kits.

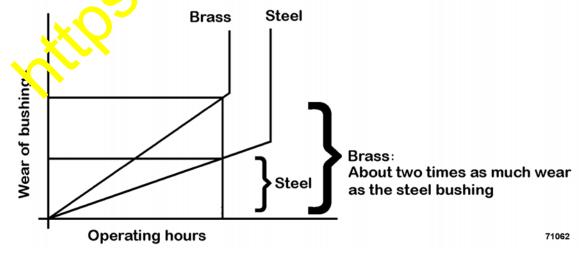


FIGURE 1. WEAR TREND WITH JOINTS PROPERLY LUBRICATED



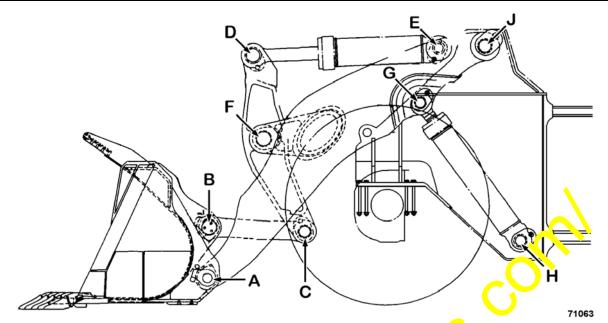


FIGURE 2. WORK EQUIPMENT BUSHING LOCATONS

| TABLE 1. BUSHIN | IG KIT (XK0291): WA800-2 WA800-2L | WA80 (-2L) WA906 1 (2)00 | 01 - 10007) | |
|-----------------|--------------------------------------|-----------------------------|-------------|------------------------|
| Part Number | Description | nar lity | Location | Bushing Inner Diameter |
| 426-09-11110 | Dust Seal | 8 | A, B, C | Ø160 mm |
| 427-70-14360 | Brass Bushing | 3 | A, B | Ø160 mm |
| 427-70-14370 | Brass Bushing | 1 | С | Ø160 mm |
| | | · · | • | |

| TABLE 2. BUSHING KIT | C (XK0293); ₩48-9-2 WA290-3LC √4900-1 (10008 & Up WA900-1L | WA900-1LC WA900-3) WA900-3LC Hi-Lift Boom 4 | Applications | |
|----------------------|---|---|--------------|-------------------------------|
| Part Number | Description | Quantity | Location | Bushing Inner Diameter |
| 427-09-11120 | Est Seal | 8 | A, B, C | Ø180 mm |
| 427-70-14350 | Brass Bushing | 4 | A, B, C | Ø180 mm |

| TABLE 3. LUSHING KIT (XK0295): All Models | | | | |
|---|---------------|----------|------------|-------------------------------|
| Part Number | Description | Quantity | Location | Bushing Inner Diameter |
| 427-09-11110 | Dust Seal | 6 | F, J | Ø200 mm |
| 427-09-11120 | Dust Seal | 12 | D, E, G, H | Ø180 mm |
| 427-70-14310 | Brass Bushing | 1 | F | Ø200 mm |
| 427-70-14320 | Brass Bushing | 2 | J | Ø200 mm |
| 427-70-14330 | Brass Bushing | 4 | G, H | Ø180 mm |
| 427-70-14340 | Brass Bushing | 2 | D, E | Ø180 mm |

Installation Of Bushings And Seals

- •Always refer to the appropriate service manual for proper removal/installation procedures when performing maintenance on the work equipment.
- •Always use LM-P: molybdenum disulfide paste (moly-disulfide content of 50% or more) when installing bushings and pins to the work equipment. Refer to Parts & Service News, AT96202, Precaution Attachment Assembly At Site on WA700, WA800, WA900, for more information.
- •Always replace the corresponding dust seals when replacing bushings.
- •Use care when installing bucket link bushings. The lube holes in the bushings and the link must be aligned. Refer to Figure 3. Failure to align the holes may result in seizure of the juint.
- •Position the sealing lip outward when installing dust seals. Refer to Figures 2 and 5 for dust seal orientation and installation dimensions.

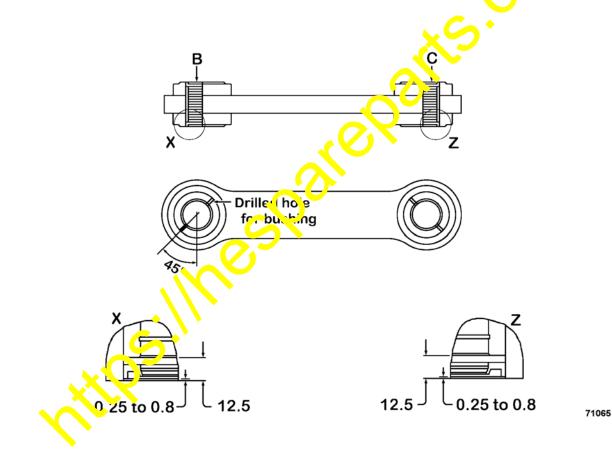
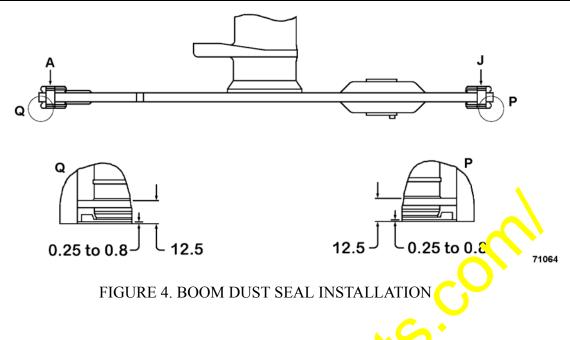


FIGURE 3. BUCKET LINK BUSHING AND DUST SEAL INSTALLATION



Recommended Greasing Intervals

No changes in greasing intervals and/or grease quantities are necessary with the installation of the brass bushings. Manual greasing intervals remain at every 100 hours for normal operating conditions and every 10 hours for severe operating conditions.

Automatic lubrication systems may vary depending 65 model. For wheel loaders equipped with an automatic lubrication system, refer to the Operation and Maintenance Manual or the appropriate shop manual for specific instructions for the particular arrangement.

Table 4 lists grease delivery rates and is included as a guide to aid in adjusting non-factory installed systems.

| 1. BLE 4. GREASE DELIVERY RATES | | | | |
|------------------------------------|-------------------------|-----------------------------|----------------|-----------------|
| | Steps | 1st Step | 2nd Step | 3rd Step |
| Operational Hour Timer Internal | | 30 Hours | 150 Hours | After 150 Hours |
| | | Timer Inter 10 - 12 minutes | | 10 - 12 minutes |
| | | Grease = cc/Hr | Grease = cc/Hr | Grease = cc/Hr |
| А | Bucket hil ge | 49.2 | 49.2 | 49.2 |
| В | Buc. et link, front | 31.2 | 15.6 | 3.9 |
| С | Bucket link, rear | 31.2 | 23.4 | 15.6 |
| D | Bucket cylinder, rod | 7.8 | 3.9 | 1.95 |
| Е | Bucket cylinder, barrel | 7.8 | 3.9 | 1.95 |
| F | Bellcrank, center | 15.6 | 7.8 | 3.9 |
| G | Boom cylinder, rod | 7.8 | 3.9 | 3.9 |
| Н | Boom cylinder, barrel | 7.8 | 3.9 | 3.9 |
| J | Boom pivot | 23.4 | 23.4 | 23.4 |