

PARTS & SERVICE NEWS

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SUBJECT: INSTALLING CUSHION RINGS IN HOIST CYLINDERS

PURPOSE: To inform the field of a new component designed for preventing damage to hoist cylinder stage tubes.

APPLICATION: Komatsu Electric Drive Dump Trucks:
 930E-2: A30012, A30098, A30100, A30121 & Up;
 930E: 32604-32816, A30019, A30026-A30120;
 830E: 31320-32825, A30544 & Up;
 730E: 32530-32845, A30079 & Up

FAILURE CODE: H1J0EB

DESCRIPTION:

Some hoist cylinder stage tubes are being distorted as a result of repeated hammering against the shoulder of the hoist cylinder pivot rod during normal operation of the dump body. Tube distortion, the primary failure caused by this occurrence, results in difficult disassembly of the hoist cylinder. A cushion ring (Figure 1) has been developed to prevent these failures from occurring, and should be installed during hoist cylinder rebuilds as described below. Refer to Table 1 for cushion ring part numbers for each truck model.

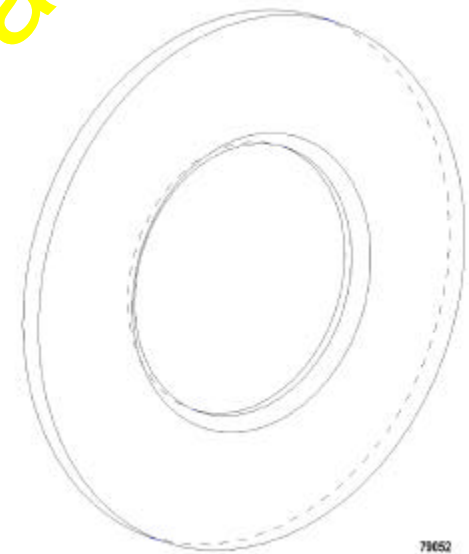


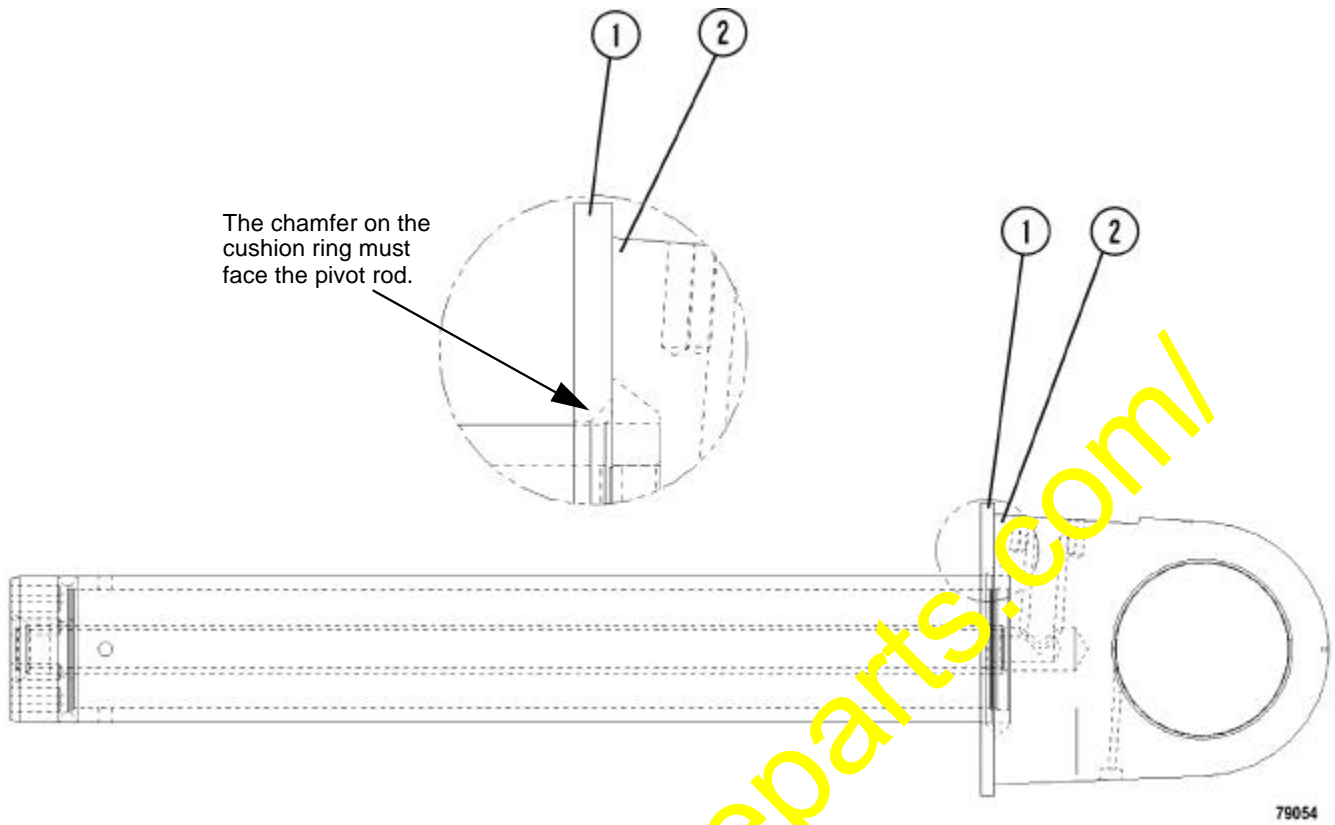
FIGURE 1. CUSHION RING

Truck Model	Part Number
730E	EK7089
830E	EK7088
930E, 930E-2	EK7088

Installation

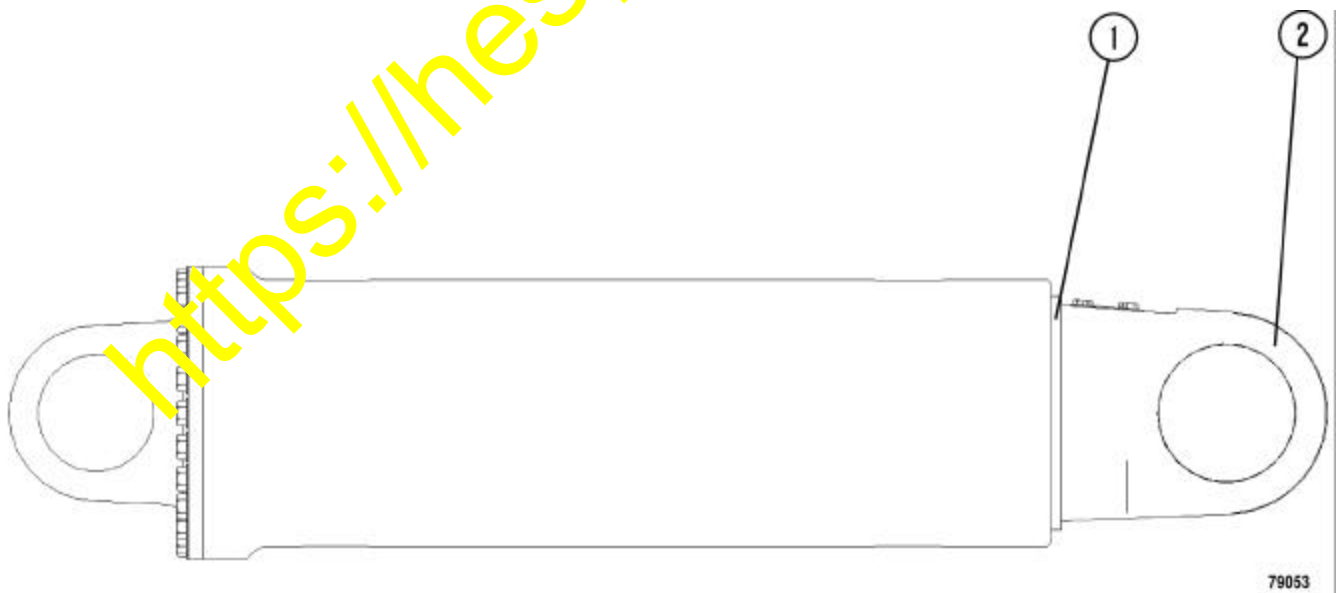
When assembling a hoist cylinder during cylinder rebuild, install cushion ring (1, Figure 2) on pivot rod (2). The chamfer on the cushion ring must face the pivot rod shoulder as shown in Figure 2. Slide the cushion ring down the rod until the ring is flush with the shoulder of the pivot rod. Continue assembling the cylinder as outlined in the appropriate service manual.

Refer to Parts & Service News, New Hoist Cylinder Snap Rings, AA01103, and Replacement Hoist Cylinder Piston Rods, AA00015, for more information concerning hoist cylinder assembly.



- 1. Cushion Ring
- 2. Pivot Rod

FIGURE 2. CUSHION RING ORIENTATION



- 1. Cushion Ring
- 2. Pivot Rod

FIGURE 3. INSTALLED CUSHION RING