

PARTS & SERVICE NEWS

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SUBJECT: NEW REAR SUSPENSION REWORK KITS

PURPOSE: Inform the Field of the New Rear Suspension Rework Kits

APPLICATION: Komatsu 930E Dump Trucks A30002 - A30097, A30099, A30101-A30120

FAILURE CODE: 5A43Z9

DESCRIPTION: 930E Rear Suspension Rework Kits

Three kits have been developed in order to correct seal leakage, anti-rotation, and spherical bearing issues in the 930E rear suspension.

AK4536 Kit has been designed in order to correct issues of oscillation of the rear suspension cylinder and issues with the spherical bearings and includes MK4103 kit.

MK4049 Kit has been designed in order to correct issues with the oscillation of the rear suspension cylinder.

MK4103 Kit has been designed in order to correct issues with oil leakage between bronze bearings and the housing.

Contents of the 930E-1 Rear Suspension				
930E-1 Rear Suspension Assemblies			Description	Qty.
EG0609	EF4613	EG3061	Suspension Assemblies	
EF5479	EL3631	EF8363	Suspension, Rear	1
PB8931	PE8931	PB8931	Bearing, Spherical	2
VN9353	VN9353	VN9353	Ring, Retainer (Internal) #875	4

AK4536 Kit includes instructions for machining and installing sleeves for piston (EH7948) and housing (EH7950). This will allow larger spherical bearings (PC0824) to be installed. Piston rework drawing (EH7947) and housing rework drawing (EH7949) provide the details of all required machining. The following parts are included in the kit:

Contents of AK4536 Kit		
Component	Description	Quantity
EH6883	Flat	4
EH6884	Flat	4
EH7349	Dwg Susp., with Bearings	1
EH7681	Dwg Rear Susp, Oscil., Rework	1
EH7944	Dwg Piston Str., Rework	1
EH7946	Dwg Housing Str., Rework	1
EH7947	Dwg Piston Str., Mach., Rework	1
EH7948	Sleeve	2
EH7949	Dwg Housing Str., Mach., Rework	1
EH7950	Sleeve	1
EH8305	Dwg Bearing, Bronze, Rework	1
EH8311	Dwg Suspension, Rear, Rework	1
PC0652	Seal, Rod Double Lip, 12.00 In. Dia.	1
PC0654	Seal, Wiper, 12.00 In. Dia.	1
PC0673	Ring, Backup	1
PC0824	Bearing, Spherical	2
SV5921	Ring, Retainer (Internal) #875	4
WA0180	O-Ring Size #458, 70 Durometers	1
PC0653	Seal, Rod Buffer, 12.00 In. Dia.	1

MK4049 Kit has been designed in order to correct anti-rotation issues with the 930E rear suspensions. This modification will require Anti-Rotation Plates (EH8306) be welded onto both sides of each eye of the suspension cylinder. The Anti-Rotation Stop Kit drawing (EH8301) details all required welding. The following parts are included in the kit:

Contents of MK4049 Kit		
Component	Description	Quantity
EH8301	Dwg Anti-Rotation Stop Kit	1
EH8306	Anti-Rotation Plate	4

MK4103 Kit has been designed in order to correct oil leaking issues in 930E rear suspensions by installing a new seal arrangement. This modification will require that the bronze bearing be removed from the suspension and be machined. Bronze bearing rework drawing (EH8305) details all of the required machining. Bronze bearings (EG1221) or (ED8014) will be reworked into part number (EH8305). When recommending this modification for a rear suspension update, be certain to select a machine shop that is experienced in close tolerance work. If part number (EH8305) is ordered, part number (EH7347), its equivalent, will be supplied. The following parts are included in the (MK4103) kit:

Contents of MK4103 Kit		
Component	Description	Quantity
EH8305	Dwg Bearing Bronze, Rework	1
WA0180	O-Ring Size #458, 70 Durometers	1
PC0673	Ring, Back-up	1

During assembly, all parts must be completely cleaned and free of any foreign material. Refer to the appropriate 930E Komatsu shop manual, "Section H: Suspensions", for rebuild, oiling, and nitrogen charging procedures. After the suspension has been installed, inspect the piston extension with the truck empty and with the truck loaded.