

PARTS & SERVICE NEWS

REF NO.	AA01248
DATE	December 5, 2001

SUBJECT:	INTRODUCTION OF HYDRAULIC / STEERING SYSTEM UNLOADER VALVE KITS
PURPOSE:	To inform the field of the availability of more reliable unloader valves for trucks in the field.
APPLICATION:	Komatsu 730E Dump Trucks AFE47-A thru AM, A30079 thru A30123
FAILURE CODE:	R200Z9
DESCRIPTION:	Unloader valve description and kit details.

The unloader valve is an autonomous pressure control and diverting type valve. The purpose of the unloader valve in this application is to divert oil flow between the steering circuit and the hoist circuit. Priority goes to the steering circuit at all times. When the steering circuit reaches 2950 psi (20.3 MPa), the unloader valve directs oil to the hoist valve to combine with oil flow from the hoist pump. The valve also supplies oil to the brake circuit through the bleed down manifold.

Due to reliability concerns, the previous unloader valve (PB9977) has been replaced by PC0243. The previous valve has a tendency to stick and cause overheating in the hydraulic circuit. The new valve is being installed on trucks at the factory.

Two kits are now available for upgrading trucks in the field to the new unloader valve. Kit (MK4085) is applicable for trucks with the unloader valve mounted to the frame. Refer to Table 1 for a list of kit components. Kit (MK4087) is applicable for trucks with the unloader valve mounted on the side of the fuel tank. Refer to Table 2. All of the necessary components needed for installation are included within the kits. Each kit also contains a drawing with instructions for installation of the unloader valves.

▲ IMPORTANT ▲

After installation of the new unloader valve, follow the checkout procedure in the manual and adjust the hydraulic steering pressure at the unloader valve. The proper adjustment setting for unloader valve (PC0243) is 2950 psi (20.3 MPa) unload pressure. The previous valve (PB9977) was set at 2750 psi (18.9 MPa), and therefore, older shop manual specifications reflect this adjustment. Disregard the 2750 psi (18.9 MPa) specification and substitute 2950 psi (20.3 MPa). New shop manuals will reflect this change.

Part Number	Description	Quantity
EH8336	Unloader Valve Kit Drawing	-
EH8338	Tube Str.	1
TF8090	Split Flange Clamp	2
VG9095	O-ring	1
C1614	Capscrew	4
C1540	Lockwasher	4
WB0603	Fitting	3
WB0638	Fitting	2
PC0243	Unloader Valve	1
VN6422	Capscrew	2
TR4436	Flatwasher	2
EH8334	Tapped Pad	1
WB0580	Fitting	1
HA7717	Hose	1
HA7718	Hose	1
HA6093	Hose	1

Part Number	Description	Quantity
EH8337	Unloader Valve Kit Drawing	-
EH8338	Tube Str.	1
PC0243	Unloader Valve	1
HA7723	Hose	1
HA7695	Hose	1
WB0603	Fitting	3
WB0580	Fitting	1
HA5194	Hose	1
VN6422	Capscrew	2
TR4436	Flatwasher	2
TF8090	Split Flange Clamp	2
VG9095	O-ring	1
C1614	Capscrew	4
C1540	Lockwasher	4
EH8334	Tapped Pad	1