



# PARTS & SERVICE NEWS

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**SUBJECT: MODIFICATION OF TRANSMISSIONS.**

**PURPOSE:** To modify the transmissions on the HA250 and HA270.

**RELATED PARTS / SERVICE INFORMATION NO.:** -

**APPLICATION:**

6225 B from serial no.: N60961 to N61066, included s/no: N61091.  
6227 B from serial no.: N65450 to N65575.

**DESCRIPTION:**

**1. Introduction.**

The modification:

To reduce the *lock-up* pressure with constant clutch pressure: 15 bar + 2 bar.

**2. Repair/installation procedure.**

See procedure on page 2 and 3.

**3. Assemblies and parts required per truck.**

Q'ty.	Part name	ZF part no.	Komatsu part no.
1	Complete kit	0899 198 091	BW152971

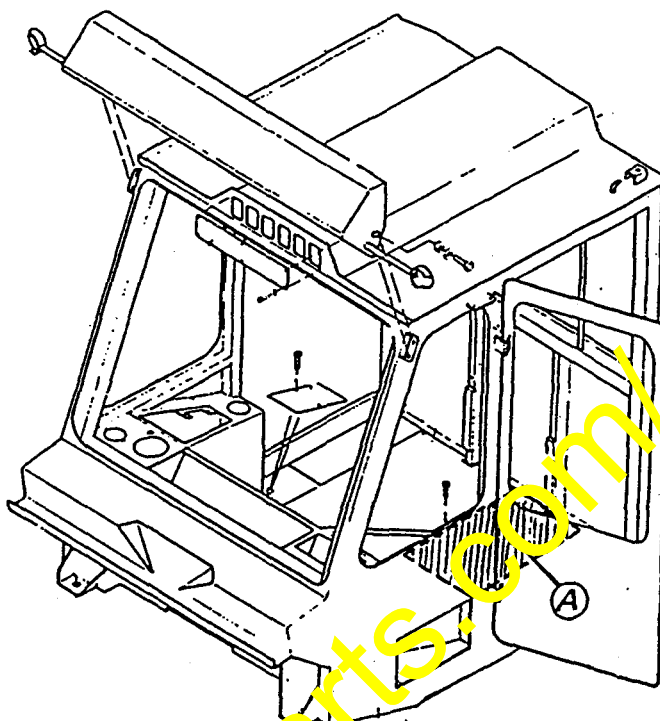
*Following parts are included in this kit:*

1	Kit (lock-up valve)	0899 198 038	BW152970
1	Piston 59.040	46 44 306 322	BW152961
1	Bush 59.080	46 44 306 324	BW152963
1	Gasket 59.872	46 44 306 345	BW152163

**2. Repair/installation procedure.**

1. Remove L. H. floor plate, pos. A from cabine. See fig. 1. Clean the area around the control valve ass'y, see fig 6.

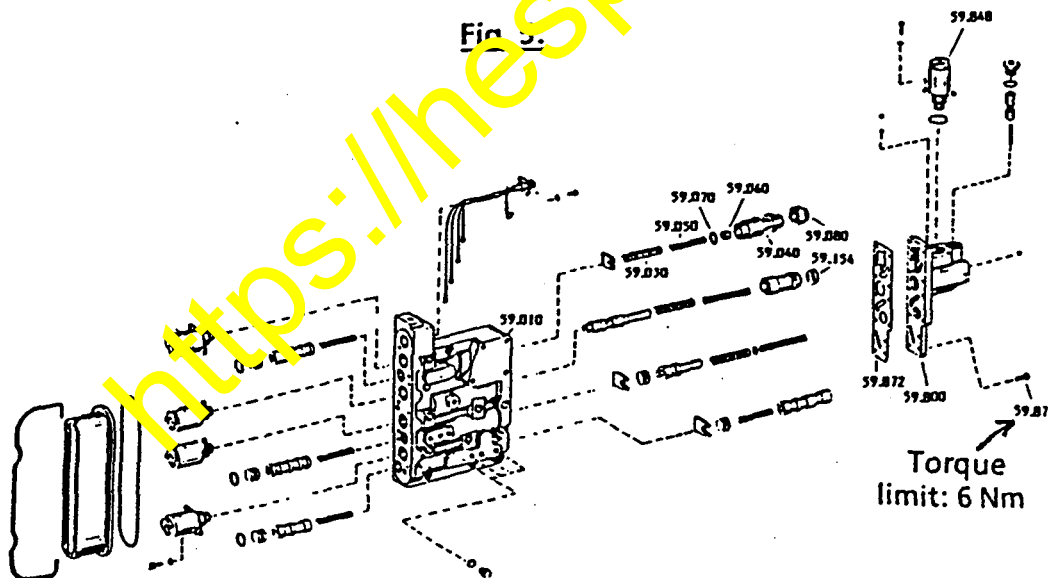
Fig. 1:



2. See fig. 5.

- a) Remove lock-up valve (59.800) from valve block (59.010). Pay attention to the spring effect!
- b) Remove valve (59.040) and bushing (59.080) and replace with new parts from modification kit. Use old parts 59.030, 59.050 (59.070) and 59.060.
- c) Fit new lock-up valve (59.800) and new gasket (59.872) from kit. Solenoid valve (59.848) are to be re-used.

Fig. 5:



### 3. Test values.

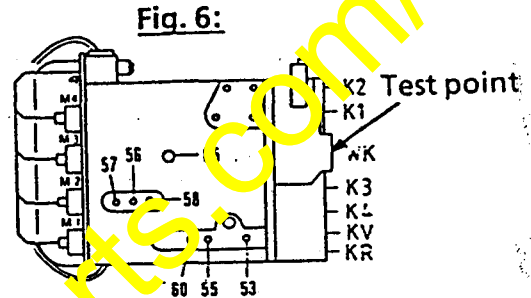
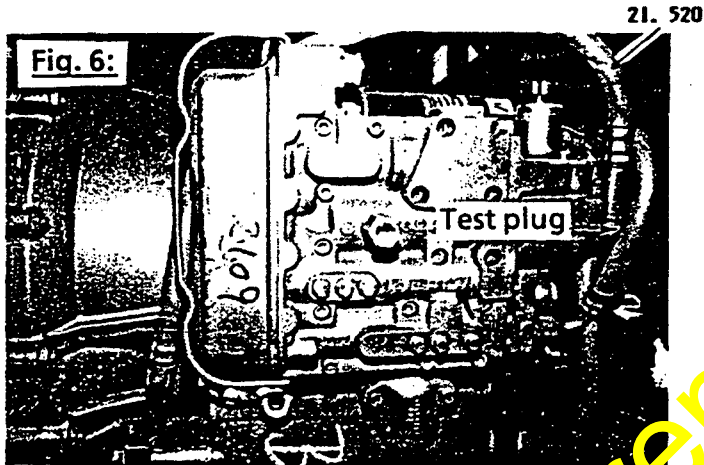
Control pressure = 15 bar (+2 bar).

Lock-up clutch pressure: = 11 bar ( $\pm 1$  bar).

Test procedure: See fig. 6.

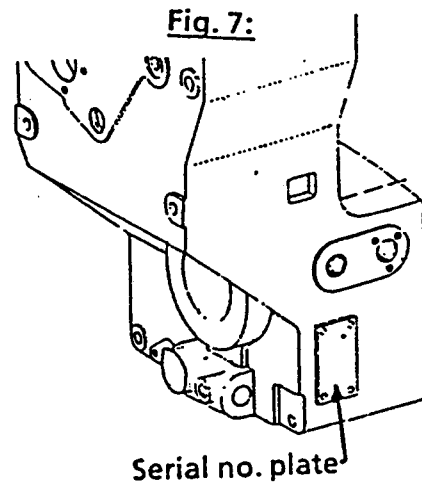
Attach pressure gauge (25 bar) to the lock-up pipe (21.520) by removing test plug M10 $\times$ 1 from banjo connector at rear of the lock-up valve and install pressure gauge. Stall engine in 6th gear against brake until transmission oil temperature reaches 70°C (max. 1500 rpm). Select neutral and increase engine speed to 1500 rpm. Apply a 24 V feed to the lock-up solenoid (orange wire to solenoid). Check lock-up pressure (11  $\pm$  1 bar). Check converter pressure on dash board (15 bar +2 bar).

Stop engine, remove pressure gauge, wire to solenoid and fit the plug. Start engine and check for oil leaks.



### 9. See fig. 7.

Add an "M" for modified bearing  
the serial no. on the serial no. plate.



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