Service Manual

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Publication No.
9803/8610-18



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Issued by JCB Technical Publications, JCB Aftermarket Training, Woodseat, Rocester, Staffordshire, ST14 5BW, England. Tel +44 1889 591300 Fax +44 1889 591400

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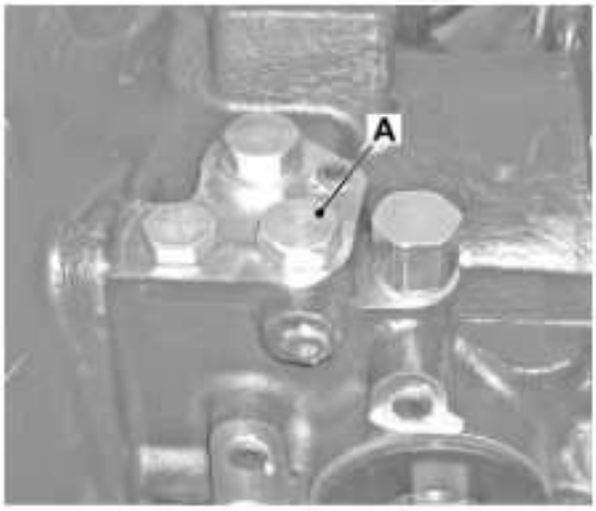
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Torque Converter Relief Valve - Removal and Replacement



Removal

1 Clean the area around the plug **A** and gearbox casing. Do not allow particles of grit to fall into the gearbox.

2 Undo the plug **A** and remove the sealing washer **B**, spring **C** and valve spool **D**.

Replacement

Replacement is the opposite of the removal procedure. During the replacement procedure do this work also:

- Renew the sealing washer **B**.
- Torque tighten plug **A** to 102 Nm (75 lbf ft).

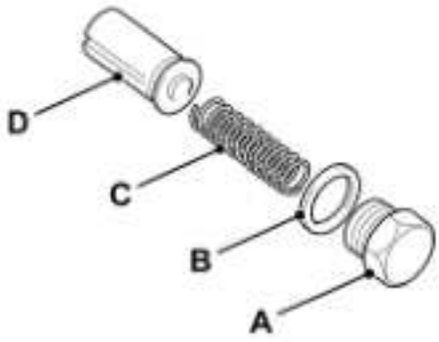


Fig 11.

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PS766 and PS764 Powershift (2004 on)

Technical Data

Technical data may differ between gearbox variants and installations. For full data relating to specific gearboxes refer to the applicable machine Service Manual.

Unit Identification

The gearbox serial number is stamped on the unit identification plate **79A** as shown.

When ordering replacement parts, always quote the details on the unit identification plate. In the case of gear replacements, always check the part number stamped on the gear, and the number of teeth.

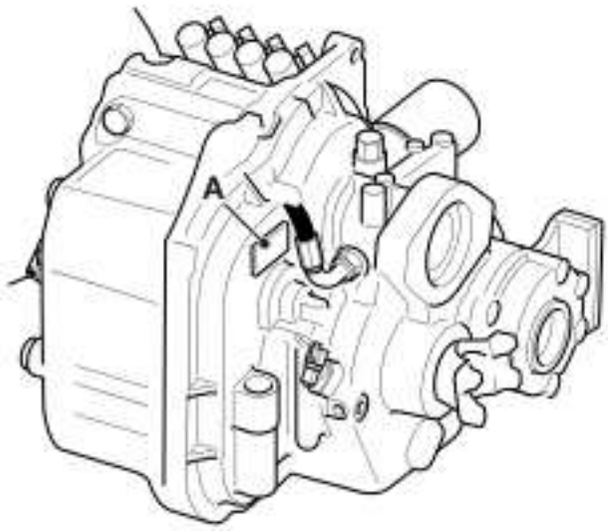


Fig 79.

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Dismantling and Assembly

Before following some of the procedures remove the gearbox from its machine installation. Refer to the correct machine service documentation.

The table lists all the service procedures for the gearbox. For some procedures it is necessary to do other procedures first, these are shown in the table.

Procedures		Do these procedures first
1	⇨ *Oil Filter - Removal and Replacement (E-186)*	
2	⇨ *Suction Strainer - Removal and Replacement (E-187)*	
3	⇨ *4 Wheel Drive Yoke and Oil Seal - Removal and Replacement (E-188)*	
4	⇨ *Output Shaft Drive Yoke and Oil Seal - Removal and Replacement (E-189)*	
5	⇨ *Cold Start Relief Valve - Removal and Replacement (E-191)*	
6	⇨ *Pressure Maintenance Valve - Removal and Replacement (E-192)*	
7	⇨ *Torque Converter Relief Valve - Removal and Replacement (E-193)*	
8	⇨ *Check Valve - Removal and Replacement (E-194)*	
9	⇨ *Oil Pressure Switch - Removal and Replacement (E-195)*	
10	⇨ *Oil Temperature Switch - Removal and Replacement (E-196)*	
11	⇨ *Solenoid Control Valves - Removal and Replacement (E-197)*	
12	⇨ *Gear Lever Turret - Removal and Replacement (E-198)*	
13	⇨ *Gear Lever Turret - Dismantle and Assemble (E-199)*	
14	⇨ *Oil Pump - Removal, Inspection and Replacement (E-200)*	
⇨ *Integral Park Brake (E-202)*		
15	⇨ *Multi Plate Pack - Removal (E-202)*	
16	⇨ *Multi Plate Pack - Inspection (E-203)*	
17	⇨ *Multi Plate Pack - Replacement (E-204)*	
18	⇨ *Brake Actuator - Dismantle (E-205)*	
19	⇨ *Brake Actuator - Inspection (E-206)*	
20	⇨ *Brake Actuator - Assembly (E-207)*	
21	⇨ *Pump Driveshaft - Removal and Replacement (E-208)*	
22	⇨ *Front and Rear Casings - Separation (E-209)*	1, 2, 3, 5(1), 6(1), 7(1) 8(1), 9(1),10(1), 11(1), 12, 14, 15, 21
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Dismantling and Assembly

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The table lists all the service procedures for the gearbox. For some procedures it is necessary to do other procedures first, these are shown in the table.

	Procedures	Do these procedures first
1	⇨ *Oil Filter - Removal and Replacement (F-172)*	
2	⇨ *Suction Strainer - Removal and Replacement (F-173)*	
3	⇨ *4 Wheel Drive Yoke and Oil Seal - Removal and Replacement (F-174)*	
4	⇨ *Brake Disc - Removal and Replacement (F-175)*	
5	⇨ *Solenoid Control Valves - Removal and Replacement (F-176)*	
6	⇨ *Torque Converter Relief Valve - Removal and Replacement (F-178)*	
7	⇨ *Pressure Maintenance Valve - Removal and Replacement (F-179)*	
8	⇨ *Speed Sensors - Removal and Replacement (F-180)*	
9	⇨ *Oil Pressure Switch - Removal and Replacement (F-181)*	
10	⇨ *Oil Pump - Removal, Inspection and Replacement (F-182)*	
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(1) Remove to prevent component damage during the procedures.

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