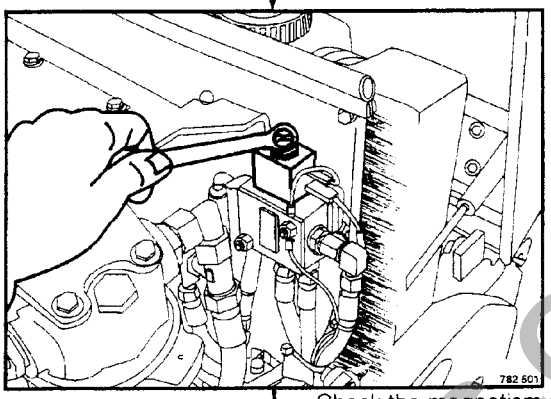




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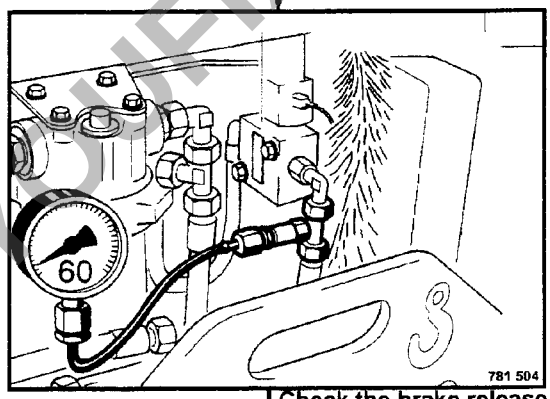


- Check the magnetism of the coil

Coil OK?

no → Replace the coil

yes



Check the brake release pressure

- Install a pressure test port to port B2
- Connect a 60 bar pressure gauge
- Start the engine and move the travel lever out of „Neutral"
- Read the pressure gauge

Pressure OK?

no → Replace the brake valve

yes → Mechanical fault. drum, travel motor

Charge pressure OK?

no

yes

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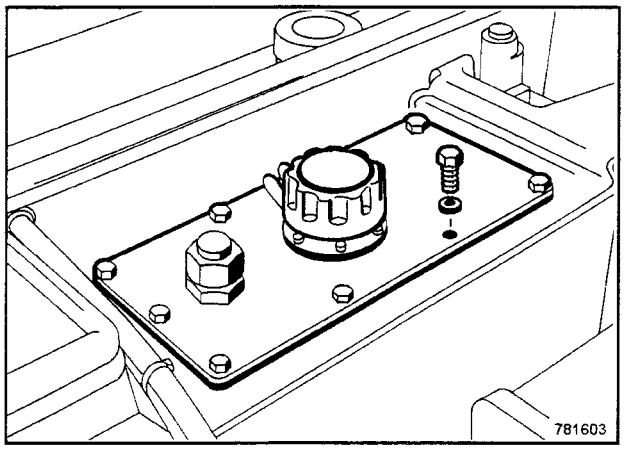


Fig. 1

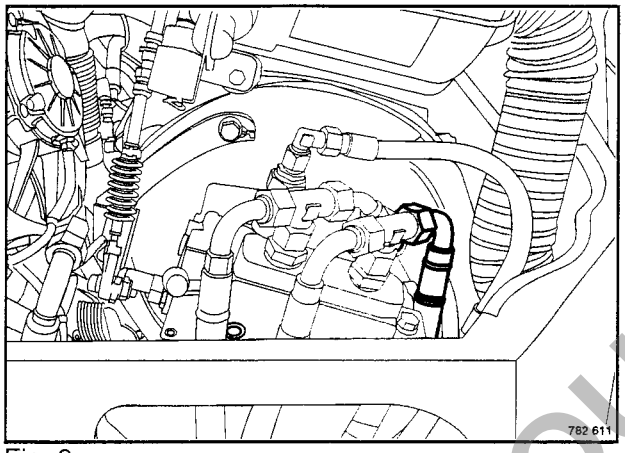


Fig. 2

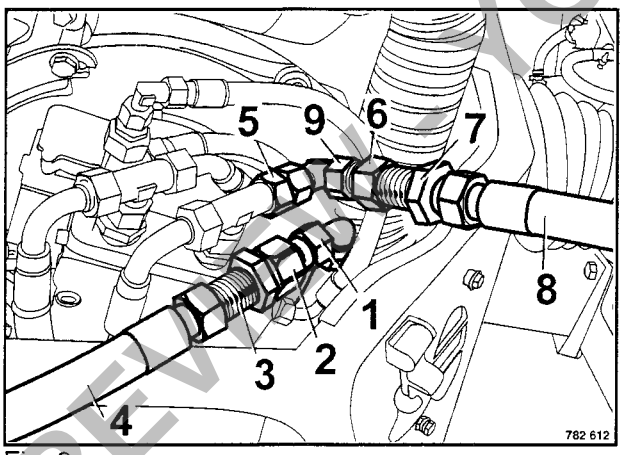


Fig. 3

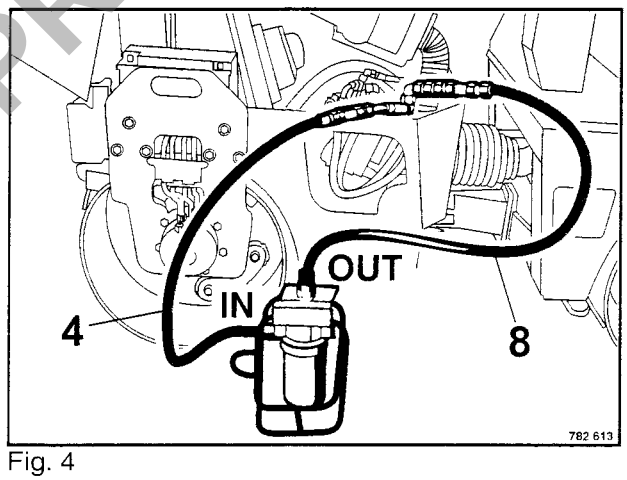


Fig. 4

3.04 Flushing the travel circuit

Caution

Before installing the flushing filter check hoses and connections for cleanliness, clean if necessary.

Cleaning the hydraulic oil tank

1. Unscrew the fastening screws (Fig. 1), remove the cover from the hydraulic oil tank and pump the oil from the tank into a clean vessel or oil bag using the filling and filtering unit.

Caution

Catch the hydraulic oil and dispose of environmentally!

2. Thoroughly clean the inside of the hydraulic oil tank.

Filter installation to flush the front drum drive

1. Disconnect the high pressure hose 1 (Fig. 2) from the travel pump.
2. Connect the flushing hose 8 (Fig. 3) to the travel pump using double end union (7), reducing fitting (6), angular fitting (9) and tube connector (5).
3. Connect the flushing hose (4) to the disconnected high pressure hose (1) using the double end union (3) and the reducing fitting (2).
4. Connect the flushing hose 4 (Fig. 4) to the flushing filter inlet "IN".
5. Connect the flushing hose (8) to the flushing filter port "OUT".

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Torques for bolts with metric unified threads

Dimension of bolt	Torques Nm* (ft-lb)		
	8.8	10.9	12.9

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3.02 Flushing schematic, front travel circuit



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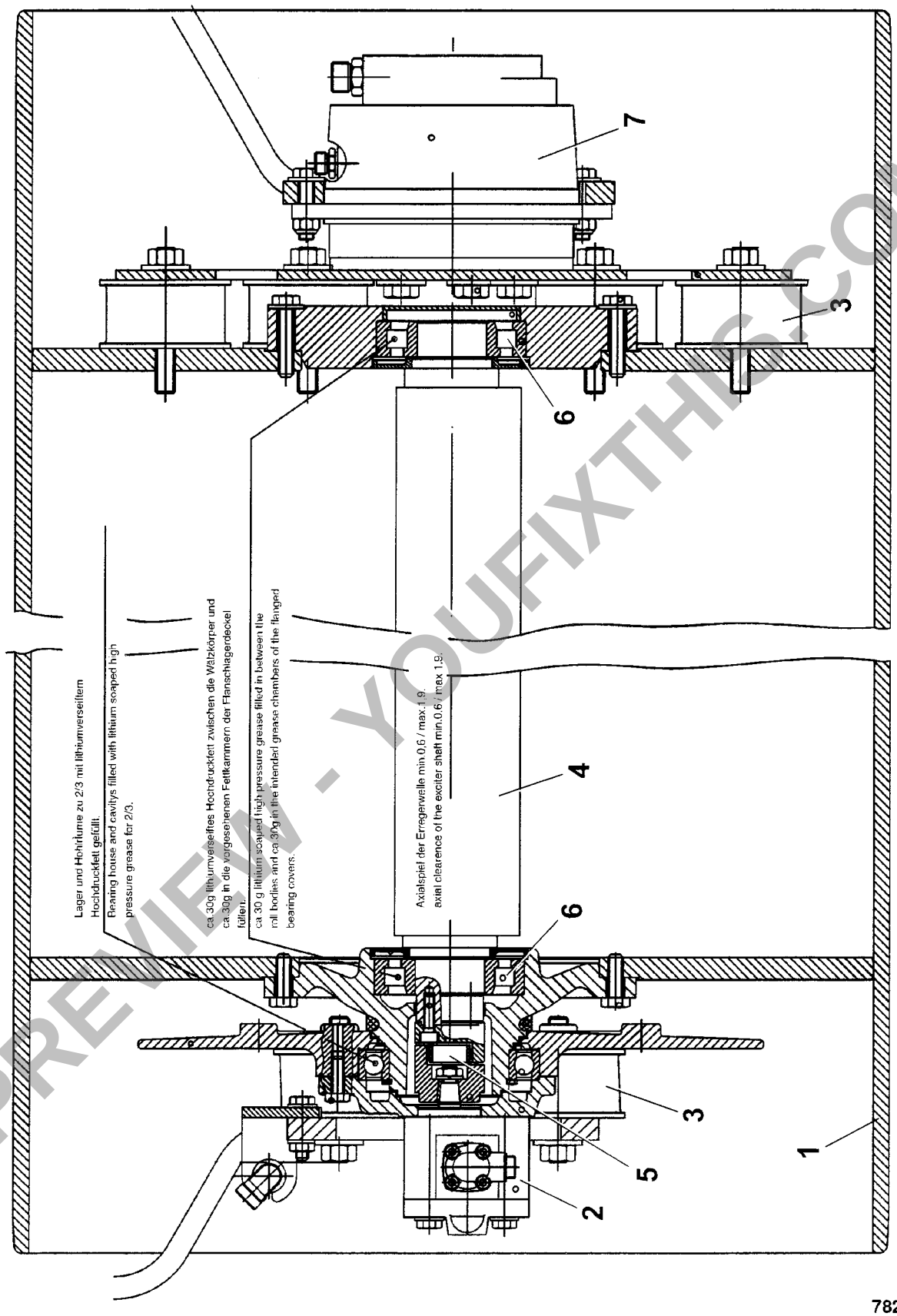


Fig. 1

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1.01 Foreword

1.02 Safety regulations

1.03 General notes on reair

1.04 Tightening torques

1.05 Connection overview

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These safety regulations must be read and applied by every person involved in the repair of this machine. The applicable accident prevention instructions and the safety regulations in the operating and maintenance instructions must be additionally observed.

Repair work shall only performed by appropriately trained personnel or by the after sales service of BOMAG.

Note

In this repair manual you will find headers like 'Note', 'Attention', 'Danger' for safety reasons, these must be strictly followed.

Note

This 'Note' for repair work must be strictly applied and observed.

Caution

The header 'Attention' refers to repair methods which must be strictly applied in order to avoid damage to and destruction of the machine and other property.

Danger

This header 'Danger' refers to repair methods which must be strictly applied, in order to rule out dangers for the health and life of persons.

General

- Before starting repair work stand the machine on level and solid ground.
- Secure the machine against unintended rolling.
- Secure the engine reliably against unintentional starting.
- Mark a machine that is defective or being repaired by attaching a clearly visible warning tag to the steering wheel.
- During work lock the articulated joint with the articulation lock.
- Wear your protective outfit, such as hard hat and safety boots.
- Keep unauthorized persons away from the machine while performing repair work.
- Tools, lifting gear, lifting tackle, supports and other auxiliary equipment must be fully functional and in safe condition.
- Use only proper lifting gear of sufficient load bearing capacity for the removal and installation of machine components.
- Be careful when using cleansing agents. Gasoline or other easily inflammable substances must not be used for cleaning.
- Cleaning or repair work on the fuel tank is very dangerous. Do not smoke or allow any ignitable sparks or open fire in the vicinity when cleaning or repairing a tank. .
- Strictly observe the welding instructions when performing welding work.

Special notes on safety

- You should only use genuine BOMAG spare parts.
- Original parts and accessories have been specially designed for this machine.
- We wish to make explicitly clear that we have not tested or approved any parts or accessories not supplied by us. The installation and/or use of such products may therefore have an adverse effect on the specific characteristics of the machine and thereby impair the active and/or passive driving safety. The manufacturer explicitly excludes any liability for damage caused by the use of non-original parts or accessories.
- Unauthorized changes to the machine are prohibited for safety reasons.
- If tests in the steering system need to be performed with the engine running, do not stand in the articulation area of the machine, danger of injury!
- Do not clean the machine while the engine is running.
- Do not touch rotating parts of the engine, danger of injury!
- Exhaust gases are highly dangerous. Always ensure an adequate supply of fresh air when starting in closed rooms!
- Refuel only with the engine shut down! Ensure strict cleanliness! Do not spill any fuel!
- Keep used filters in a separate waste container and dispose of environmentally.
- When performing maintenance work catch all oils and fuel and dispose of environmentally.
- Do not refuel in closed rooms.
- There is a danger of scalding when working with hot oil.
- Do not heat up oil higher than 160°C, as otherwise oil or oil vapours may ignite.
- Wipe up spilled fuel or oils.

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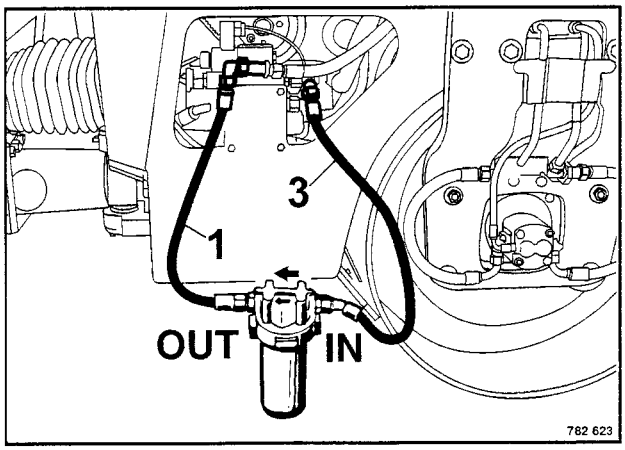


Fig. 5

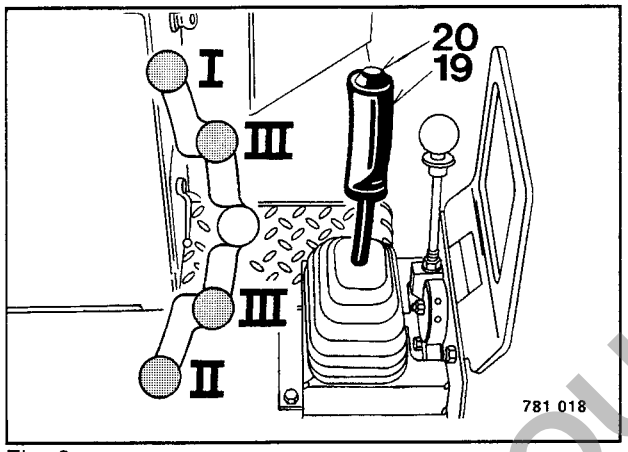


Fig. 6

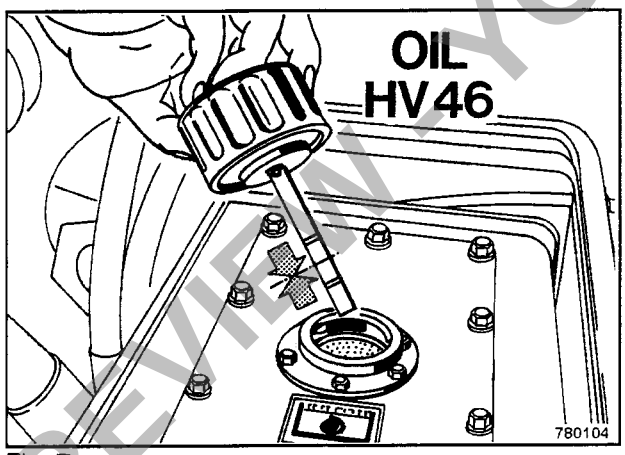


Fig. 7

5. Connect the flushing hose 1 (Fig. 5) to the flushing filter outlet "OUT".
6. Connect the flushing hose (3) to the flushing filter port "IN".
7. Fill the hydraulic oil tank using the filling and filtering unit.
8. Start the engine and run it with maximum speed.
9. Switch the vibration 20 (Fig. 6) on and run the flushing process for about 10 minutes. Switch the vibration on and off at intervals of approx. 30 seconds.
10. Shut the engine down.
11. Remove the flushing filter and reconnect the hose to the vibration valve.

Function test

1. Check the hydraulic oil level (Fig. 7) in the tank, top up if necessary.
2. Perform a test drive.
3. Check all connections for leaks.

Maintenance of the flushing filter kit

1. Change the flushing filter element, if the red control pin of the contamination indicator is pressed out.

Note

This is also possible with very cold oil.

2. Clean hoses and connections and store the flushing kit in a clean and protected environment.
3. Change the flushing filter element of the filling and filtering unit when the red control pin of the contamination indicator is pressed out.

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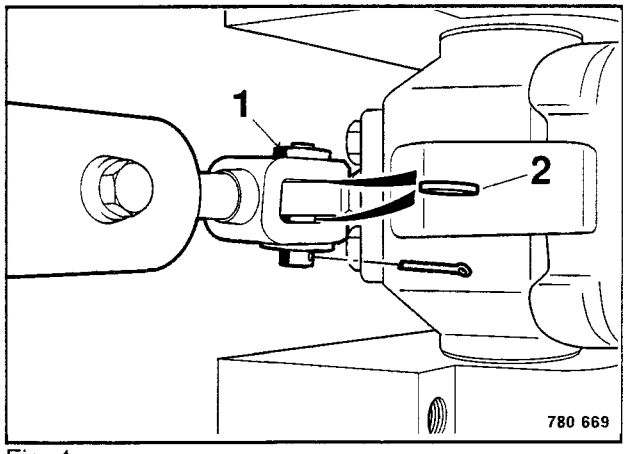


Fig. 4

9. Pull the cotter pin out of the pin 1 (Fig. 4) for the steering cylinder and knock the pin out.

10. Take the spacer rings (2) out.

Note for Installation:
Install the spacer rings with grease.

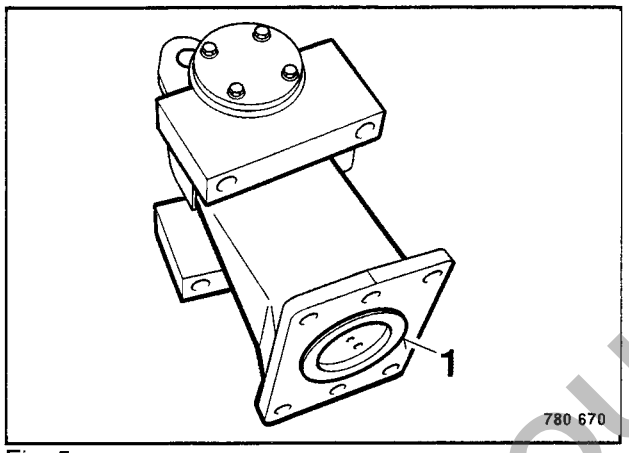
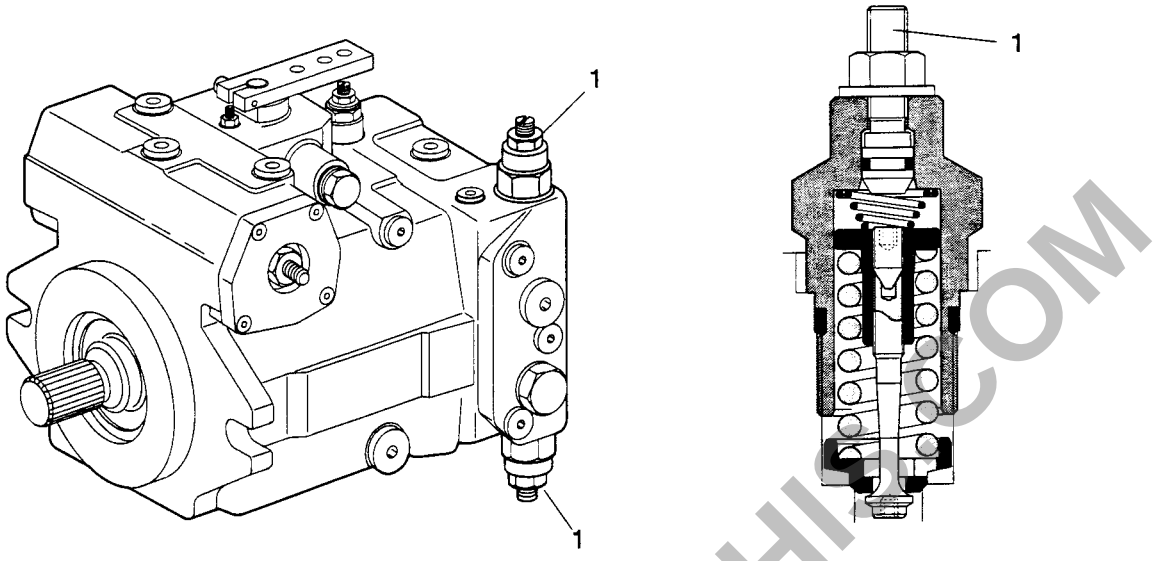


Fig. 5

Note for Installation:
Stick the new seal with grease to the bearing housing.

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Fahrzeuge mit rein-hydrostatischem Fahrantrieb bzw. mit hydrostatischem Fahrantrieb und Schaltgetriebe ohne Leerlaufstellung (Freilauf).

Hydrostatischer Antrieb / Bypaß-Schaltung

In diesem Fall wird der Fahrantrieb auf freien Umlauf geschaltet. Zu diesem Zweck haben die in der Verstellpumpe integrierten Hochdruckbegrenzungsventile eine sogenannte Bypaß-Funktion. D.h. durch Drehen der entsprechenden Schraube (Pos.1) wird der Ventil-Einsatz so entspannt, daß ein freier Öl-Umlauf möglich ist.

⚠ Bypass: Pos.1 einschrauben bis eben mit Mutter. Mutter wieder anziehen.

Schleppgeschwindigkeit
Die maximale Schleppgeschwindigkeit sollte 2 km/h nicht überschreiten.

- Höhere zulässige Schleppgeschwindigkeiten sind abhängig von der Hydromotordrehzahl bzw. dem eingelegten Gang.

Abschleppdistanz
Die Schleppentfernung sollte 1 km nicht überschreiten.

- Bei fehlender Einspeisung entleert sich der Hydraulik-Kreislauf.
  Zu beachten ist die Wärmeentwicklung im Hydromotor-Triebwerk.

Abschleppvorgang beendet
Nach beendetem Abschleppvorgang Pos.1 zurückdrehen. Der ursprüngliche Einstellwert der Hochdruckventile liegt somit wieder vor.

⚠ Ventilfunktion: Pos.1 zurückschrauben bis Anschlag. Mutter anziehen.

Vehicle with a pure hydrostatic transmission or with a hydrostatic drive with gear box without free wheel position.

Hydrostatic transmission / Bypass condition

In this case the travel drive is switched on to the free wheel position. For this purpose the high pressure valves of the variable displacement pump have a so-called bypass function.
By turning the relevant screw (item 1) the valve is so released that free oil circulation is made possible.

⚠ Bypass: Screw in item1 until it is level with the nut.

Towing speed
The max. towing speed of 2 km/h should not be exceeded.

- Higher permissible speeds are depended on the hydraulic motor speed or the selected gear.

Towing distance
The towing distance should not exceed 1 km.

- With no boost avaiable the hydraulic circuit drains.
  The heat generation in the hydraulic motor rotary group has to be taken into account.

Termination of the towing operation
After termination of the towing operation turn back item 1. The original set pressure value is thereby avaiable.

⚠ Valve function: Screw back item 1 up to stop. Screw up the nut.

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