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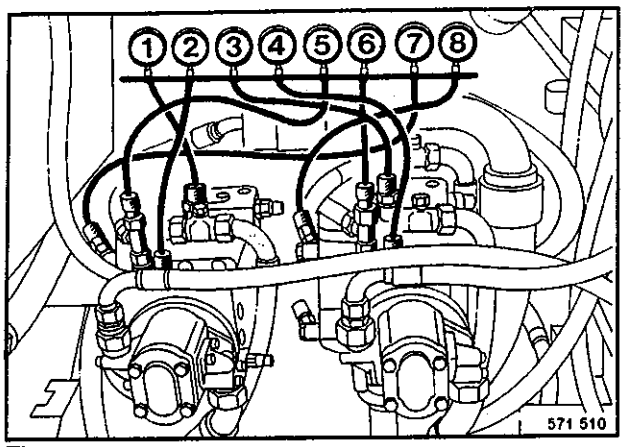


Fig. 1

2.03 Pressure test in the travel circuit

Danger

During each pressure test make sure that you have sight contact with the operator.

1. Drive the machine until the operating temperature (approx. 40 °C hydraulic oil temperature) is reached.

2. Connect the following pressure gauges (Fig. 1):
   - High pressure, travel pump rear left hand side (1), 600 bar
   - High pressure, travel pump front left hand side (2), 600 bar
   - High pressure, travel pump front right hand side (3), 600 bar
   - High pressure, travel pump rear right hand side (4), 600 bar
   - Charge pressure, left hand tandem pump (5), 60 bar
   - Charge pressure, right hand tandem pump (6), 60 bar
   - Pilot pressure, left hand tandem pump (7), 60 bar
   - Pilot pressure, right hand tandem pump (8), 60 bar

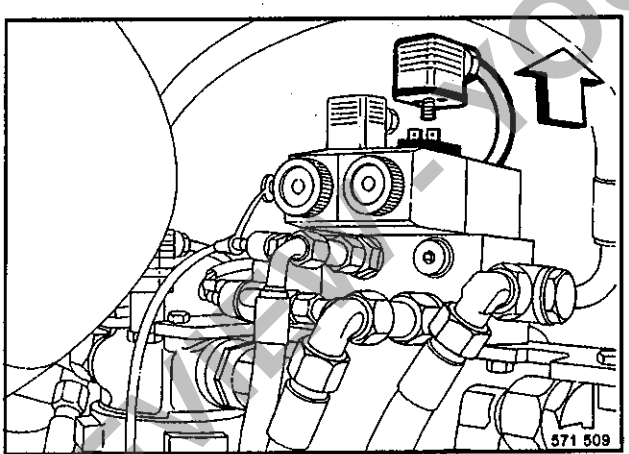


Fig. 2

Danger

Make sure that there are no persons in front of or behind the machine.

3. Pull the plug (Fig. 2) off the brake solenoid valve to keep the brakes closed.

4. Start the engine, select the 2nd speed range and travel direction backwards.

Note

Do not operate the foot brake and the emergency stop during the pressure test.

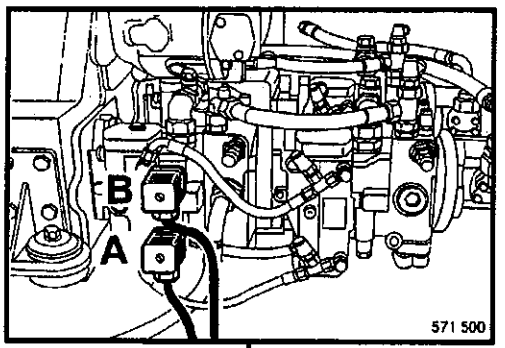
5. Accelerate the diesel engine to max. speed and watch the pressure gauges.

Nominal values:
The high pressure values must raise evenly to 430 + 10/-20 bar. The charge pressures must not drop (< 28 bar).
At least 28 bar at idle speed, increasing to 30 bar.
The pilot pressures must raise evenly to approx. 14 bar.

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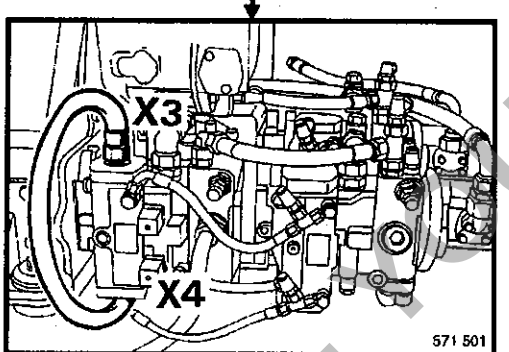
Machine drives with travel lever in "NEUTRAL"



Check the current supply for the solenoids
- Pull the plugs off the solenoids on the servo control one after the other

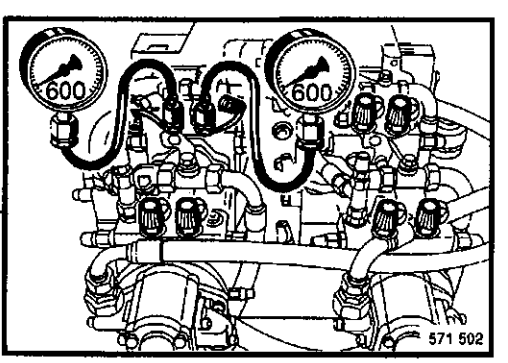
Maschine stops? — yes → Perform trouble shooting in the electric system

no



Check the neutral position of the pump
- Connect the control chamber ports X3 and X4 with a hose
- Start the engine
- Repeat this test on all other pumps

Machine stops? — no →



yes

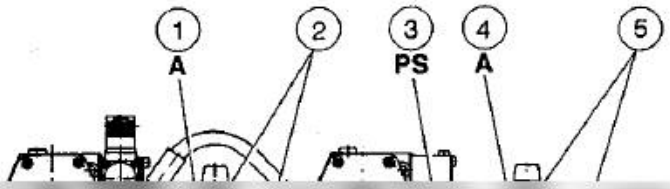
Check, adjust the mechanical "0"-position
- Connect the control chambers X3 and X4 with a hose
- Install 600 bar pressure gauges to MA und MB
- Check which pump pumps
- Adjust the "0"-position on this pump to a pressure below 60 bar
- Repeat tests and adjustment with 60 bar pressure gauges, until the lowest pressure is reached
- Remove the connecting hose, repeat the pressure test

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1.05 Connection overview



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Torques for bolts with metric unified threads

Dimension of bolt	Torques Nm* (ft-lb)		
	8.8	10.9	12.9
M4	3 (2)	5 (3)	5 (4)
M5	6 (4)	9 (7)	10 (7)

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1.01 Foreword

1.02 Safety regulations

1.03 General notes on repair

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 the machine. The applicable accident prevention regulations and the safety regulations in the operating and maintenance instructions must also be observed.

Repair work must only be performed by trained personnel or by the after sales service of BOMAG.

Note:

The repair instructions contain safety related headers such as 'Note', 'Attention', 'Danger', which must be strictly observed.

Note

This 'Note' on repair must be strictly followed and applied.

Caution

This note 'Attention' refers to repair procedures which must be strictly applied in order to avoid damage to the machine and other property.

Danger

This note 'Danger' refers to repair procedures, which must be strictly applied to rule out dangers to the life of persons.

General

- For repair work stand the machine on level and firm ground.
- Secure the machine against unintentional rolling.
- Secure the engine reliably against unintentional starting.
- Always mark a defective machine by attaching a respective note to the steering wheel.
- During work secure the articulated joint with the articulation lock.
- Use your protective outfit, such as hard hat and protective boots.
- Keep unauthorized persons away from the machine while the repair work is going on.
- Tools, lifting gear, lifting tackle, trestles and other aids must be in an operative and safe condition.
- For the removal and installation of parts use safe lifting gear of sufficient load bearing capacity.
- Be careful with cleansing agents. Gasoline or other easily inflammable substances must not be used for cleaning purposes.
- Cleaning and repair work on the fuel tank is dangerous. When repairing or cleaning the fuel tank do not smoke in the immediate vicinity, avoid ignition sparks and do not use open fire.
- Always observe the welding instructions when performing welding work.

Special safety notes

- Use only genuine BOMAG spare parts.
- Genuine parts and accessories are specially designed for the machine.
- We would like to make absolutely clear that we have not tested and approved genuine parts and accessories not supplied by us. The installation and/or use of such products may therefore have a negative effect on properties of the machine, which are specified by their design, and impair the active and/or passive driving safety. The manufacturer does not assume liability fro damage resulting from the use of non-genuine parts and accessories.
- Unauthorized conversions and alterations to the machine are not permitted for safety reasons.
- If it is necessary to perform tests in the steering system while the engine is running, you must not step or stand in the articulation area, danger of crushing!
- Do not perform cleaning work while the engine is running.
- Do not touch rotating parts of the engine, risk of injury!
- Exhaust fumes are highly dangerous. Always ensure an adequate supply of fresh air when starting the engine indoors.
- Fill the fuel tank only with the engine shut down! Ensure strict cleanliness! Do not spill any fuel!
- Store used filters in a special container and dispose of environmentally.
- During maintenance work catch all oils and fuels and dispose of environmentally.
- Do not refuel in closed rooms.
- There is a risk of scalding when handling hot oil.
- Do not heat up oil higher than 160°C, as otherwise the oil or the oil vapours may ignite.
- Wipe off spilled fuel and oils.
- Do not smoke during refueling or when checking the acid level in the battery.

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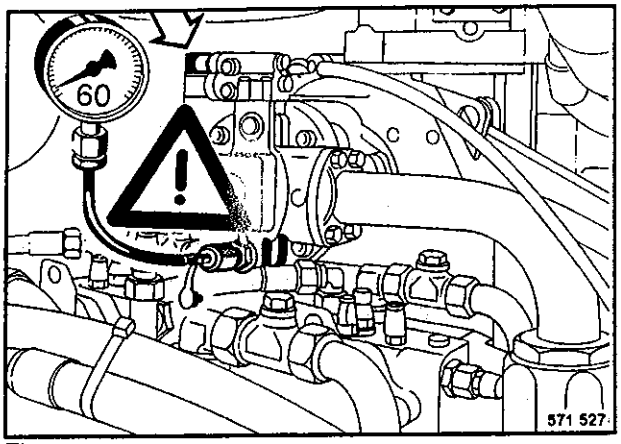


Fig. 1

2.11 Checking the stand-by pressure of the steering/dozer blade pump

1. Connect a 60 bar pressure gauge to the high pressure test port (Fig. 1).

Caution

Do not operate steering and dozer blade, since this would damage the pressure gauge.

2. Start the engine and run it at idle speed.
3. Read the pressure gauge.

   Nominal value:
   34 bar

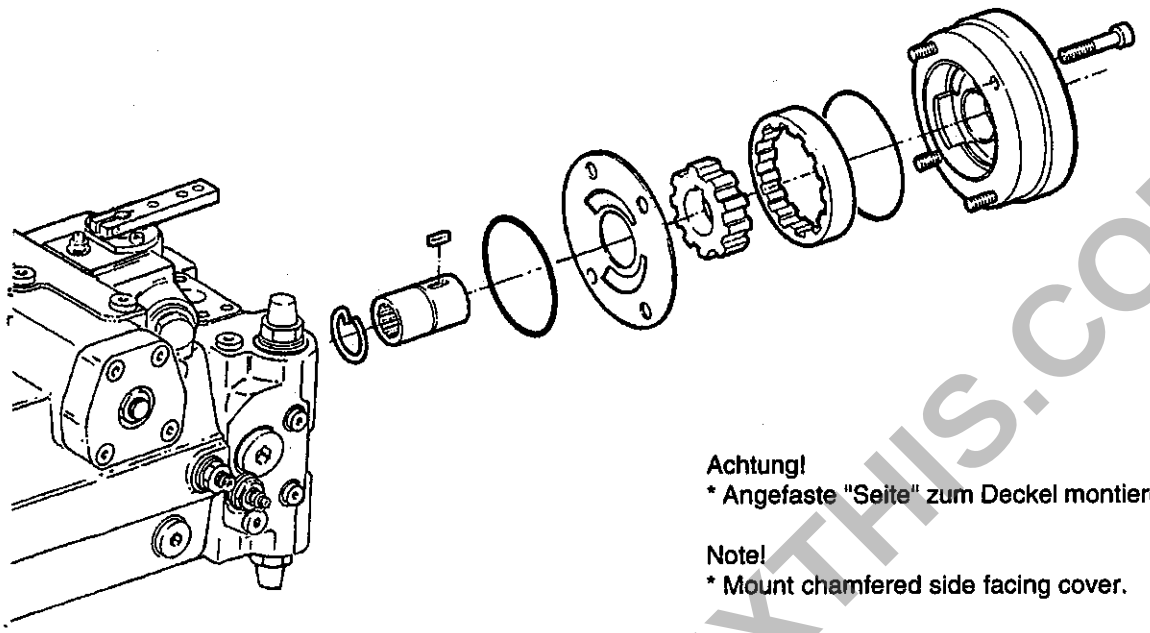
4. If necessary correct the pressure on the flow control valve.

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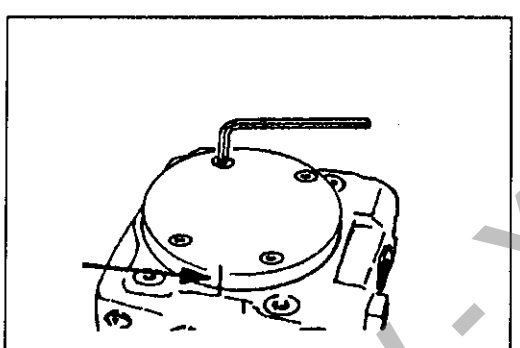
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Achtung!
* Angefaste "Seite" zum Deckel montieren.

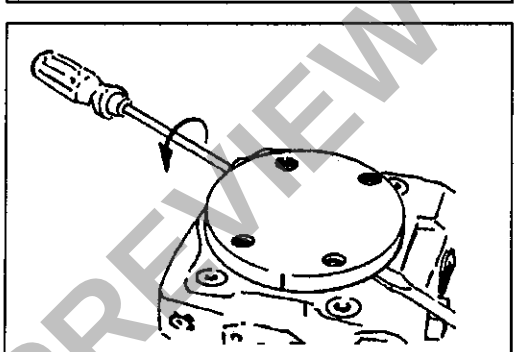
Note!
* Mount chamfered side facing cover.

17



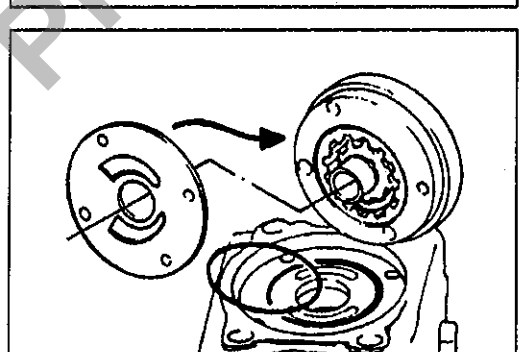
18 Lage kennzeichnen,
Befestigungsschrauben ausbauen.

Mark position,
remove fixing screws.



19 Deckel abdrücken.

Pry-off cover.

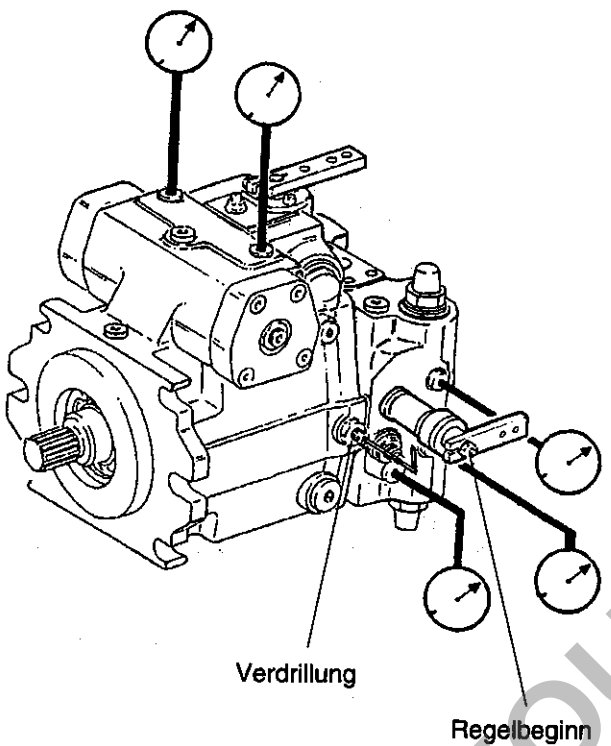


20 Kontrolle:
O-Ring, Nut,
Lauffläche, Anschlußplatte.

Check:
O-ring, groove,
gliding surface, connection plate.

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Achtung!
Sicherheitsbestimmungen beachten!

Überprüfung der Einstelldaten
Betriebstemperatur soll während des Überprüfungsvorgangs weitgehend konstant gehalten werden.
Antriebsmotor starten, Leerlaufdrehzahl

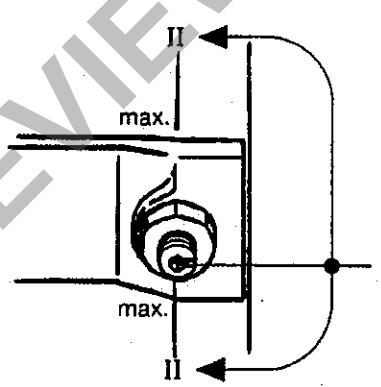
Blockzustand
Fahrtrichtungsschalter "0"
Motordrehzahl langsam steigern bis zur max. Motordrehzahl, dabei Meßgeräte beobachten.
Speisedruck:
Leerlaufdrehzahl
Psp = ca. 15-20 bar
max. Motordrehzahl
Psp = ... bar*

Blockzustand
Fahrtrichtungsschalter - vorwärts
(Straßengang und Festgebremst)

Einstelldaten Pumpe A4V/DA überprüfen
Regelbeginn
HD 40 - 50 bar
Motordrehzahl . min.^{1} * Psp . . . . . bar*
HD . . . . . bar
Nachjustierung - Regelbeginnschraube

Regelende
HD . . . . . bar*
Motordrehzahl . . . . . min.^{1} * Psp . . . . . bar*
Nachjustierung - Verdrillschraube

Hinweis:
Excenterjustierung - Drehrichtung beachten



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Hinweis: Einstelldaten nach Werksauftrag!

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