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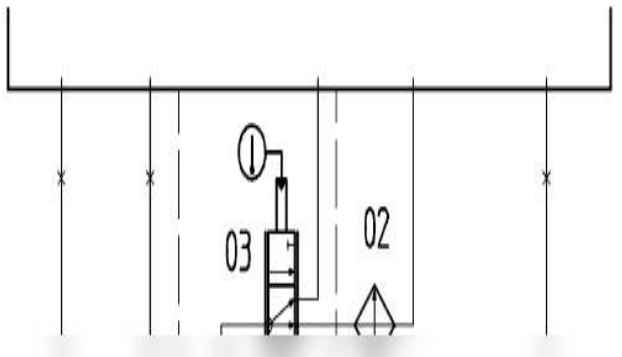
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Pos.	Benennung	Description
01	Verbrennungsmotor n=2200 1/min	Engine
02	Ölkühler	Oil cooler
03	Öltemperaturregler	Oiltemperature regulator
04	Anschlußblock	Connecting block
05	Lenkzylinder	Steering cylinder
06	Lenkeinheit	Steering unit
07	Filter	Filter
08	Bremsventil	Brake valve
09	Lenk-Speisepumpe Vg = 16 ccm	Steering-Charge pump
10	Fahrpumpe Vg = 71 ccm	Travel pump
11	Vibrationspumpe Vg = 45 ccm	Vibration pump

alle Drücke gemessen bei einer Öltemperatur von ca.50°C
Verbrennungsmotor im hohen Leerlauf n=2300 1/min
all pressures measured by an oiltemperature of ca.50°C
Engine at high idling speed n=2300 1/min

Pos.	Beschreibung	Description
MA	Speisepumpe 25±1 bar	Charge pump 25±1 bar
MB	Lenkdruck bei Volleinschlag 225±15 bar	Steering pressure at max. steering angle225±15 bar
MC	Fahrdruck auf Block rückwärts 425±15 bar	Travel pressure blocked backward 425±15 bar
MD	Fahrdruck auf Block vorwärts 425±15 bar	Travel pressure blocked forward 425±15 bar
ME	Vibrationsanlaufdruck hohe Amplitude 365±35 bar	Vibration pressure high amplitude 365±35 bar
MF	Vibrationsanlaufdruck niedrige Amplitude 365±35 bar	Vibration pressure low amplitude 365±35 bar



○ Prüfzeichen
Test mark

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2. Remove the engine solenoid

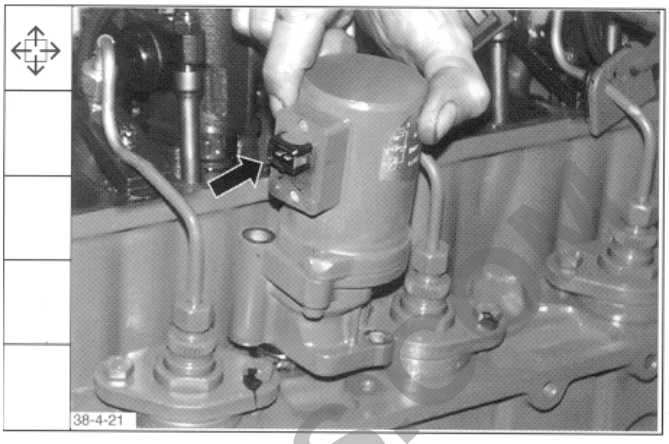


Fig. 11:

3. Insert the pressing device WILBÄR No. 100 830 carefully into the groove of the governor rod and fasten it.

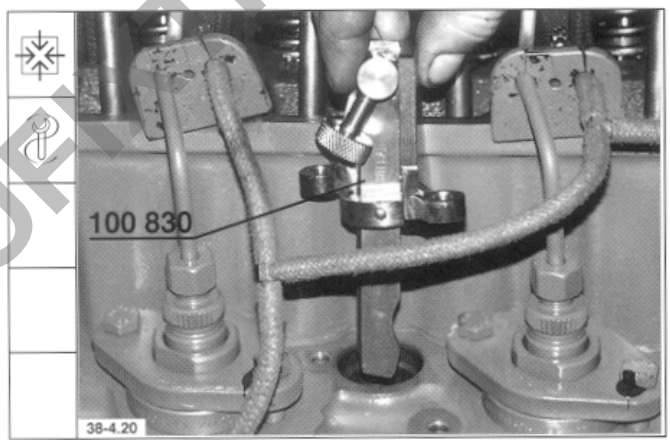


Fig. 12:

4. Turn the knurled fastening screw to press the governor rod to stop position.

Note:

Tighten the knurled fastening screw by hand.

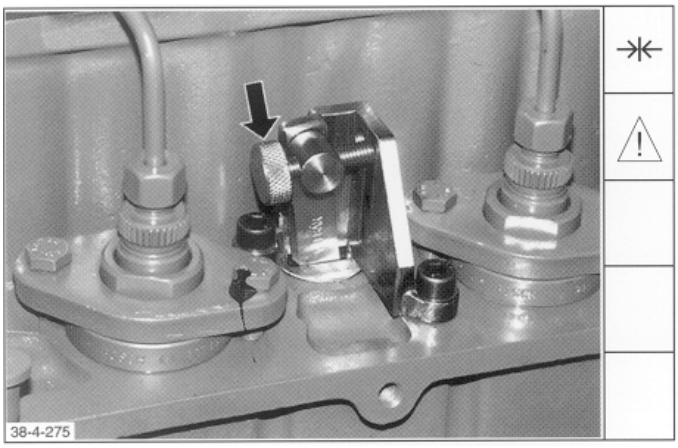
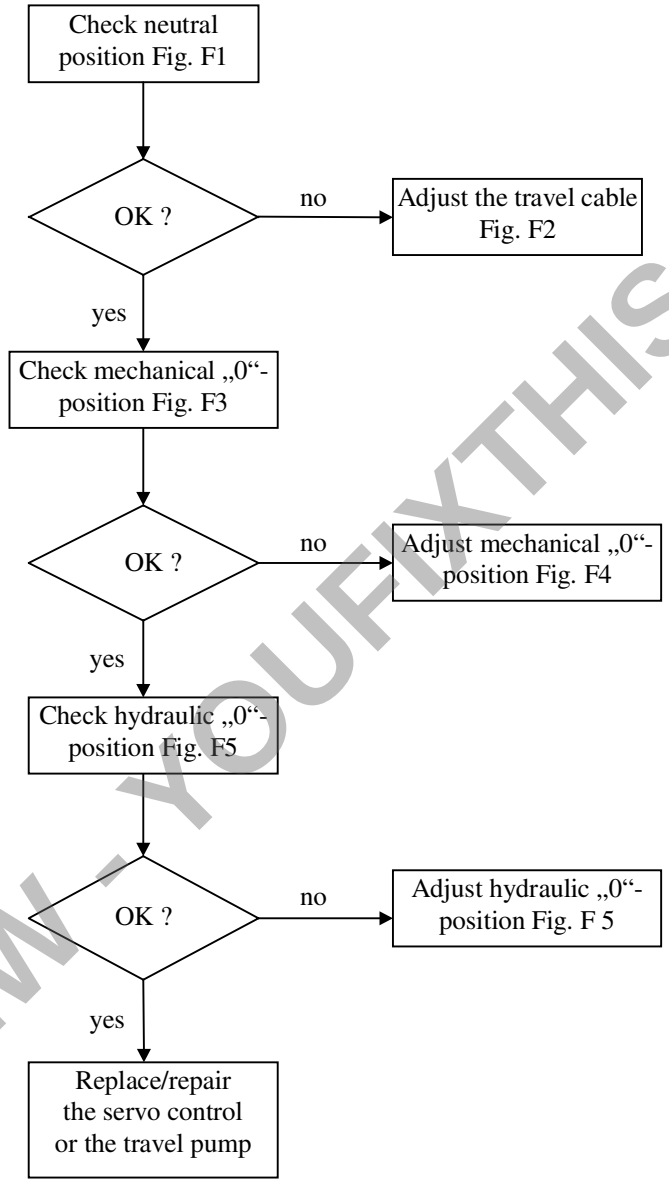


Fig. 13:

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The machine moves with the travel lever in "NEUTRAL"



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BOMAG Central Service - Technical data and adjustment values

Status: 2003-01-20

Product type:	**BW 211 D-3**
Type No.:	580 85

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Maintenance table

Maintenance work	Remark	Running-in inspect. (50 op. hours)	10 oper. hours	50 oper. hours	250 oper. hours	500 oper. hours	1000 oper. hours	2000 oper. hours	as required
Change the engine oil filter		X							
Change the engine oil		X							
Check, adjust the valve clearance		X							
Tighten all bolted connections on air intake, exhaust, oil sump and engine mounts		X							
Tighten all bolted connections on the machine		X							
Tighten the wheel studs		X							
Change the oil in the axle		X							
Change the oil in the planetary drives		X							
Change the oil in the vibrator housings drives	see note	X				X	X		
Check the engine oil level	Dipstick mark		X	X	X	X	X	X	
Check the water separator			X	X	X	X	X	X	
Check the fuel level	approx. 250 l		X	X	X	X	X	X	
Check the hydraulic oil level	Inspection glass		X	X	X	X	X	X	
Check the coolant level			X	X	X	X	X	X	
Check the dust separator on the oil bath air filter			X	X	X	X	X	X	X
Check the tire pressure	1.1 bar			X	X	X	X	X	
Adjust the scrapers				X	X	X	X	X	

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Name	Bl.	Pf.	Benennung	title	TYP
	003	5			FE5B/KABEL
	003	5			WAGO−DIODE
A02	007	12	Blinkrelais	Indicator relay	
A06	005	2	Elektronik Frequenzanzeige vorne	Electronic system, frequency meter, fr.	
A08	008	18	Elektronik Omegameter	Electronic system, Omegameter	
A12	010	18	Radio	Radio	
A13	003	14	Steuergeraet Heizung	Control unit, heating	
A16	005	13	Elektronik Tachograph	Electronic system, tachograph	
A33	008	7	Zentralplatine Kopplung Verdichtungskomponenten	Connection dircuit board, compac. components	
A35	008	14	Versorgungsplatine	Suppling circuit board	
A44	008	5	Zusatzelektronik	Additional control unit	
A51	005	15	Platine Frequenzanzeige	Circuit board,frequenzy meter	
A68	003	3	Modul Sitzkontakt	Modul seat contact	
B06	002	8	Druckschalter Motoroel	Pressure switch, engine oil	
B11	002	13	Signalhorn	Warning horn	MAX. 5A
B11	002	14	Signalhorn	Warning horn	MAX.5A
B13	004	2	Naeherungsinitiator Fahrhebel links	Proximity switch, travel lever, lh.	
B14	004	4	Naeherungsinitiator Fahrhebel rechts	Proximity switch, travel lever, rh.	
B16	005	2	Aufnehmer Vibrationsfrequenz vorne	Transducer, vibration frequency, front	
B29	006	14	Raumthermostat	Room thermostat	
B51	010	18	Lautsprecher Radio	Speaker radio	
B51	010	19	Lautsprecher Radio	Speaker radio	
B53	002	8	Temperaturgeber Kuehlmittel	Temperature switch, collant	
B60	008	2	Aufnehmer Achsgeschwindigkeit	Sensor, axle speed	
B62	008	9	Beschleunigungsaufnehmer	Acceleration sensor	
B62	008	9	Beschleunigungsaufnehmer	Acceleration sensor	
B62	008	18	Beschleunigungsaufnehmer	Acceleration sensor	
B75	006	14	Kuehlmitteldruck	coolant pressure	
B113	003	14	EMR Temperaturgeber Kuehlmittel	EMR Temperature switch, collant	
E04	009	13	Beleuchtung Geschwindigkeitsanzeige	Illumination, speedometer	
E05	009	12	Beleuchtung Frequenzanzeige vorne	Illumination, frequency gauge, front	
E07	008	17	Beleuchtung Omegameter	Illumination, Omegameter	
E07	009	12	Beleuchtung Omegameter	Illumination, Omegameter	
E08	007	17	Blinkleuchte vorne links	Indicator, front, lh.	MAX. 1,75A
E09	007	18	Blinkleuchte hinten links	Indicator, rear, lh.	MAX. 1,75A
E10	007	18	Blinkleuchte vorne rechts	Indicator, front, rh.	MAX. 1,75A
E11	007	19	Blinkleuchte hinten rechts	Indicator, rear, rh.	MAX. 1,75A
E12	007	4	Parkleuchte links	Parking light, lh.	MAX. 0,42A
E13	007	4	Schlussleuchte links	Tail light, lh.	MAX. 0,42A
E14	007	5	Parkleuchte rechts	Parking light, rh.	MAX. 0,42A
E15	007	5	Schlussleuchte rechts	Tail light, rh.	MAX. 0,42A
E16	007	9	Scheinwerfer links	Head light, lh.	MAX. 4,6A
E17	007	9	Scheinwerfer rechts	Head light, rh.	MAX. 4,6A
E23	006	6	Arbeitsscheinwerfer vorne links	Working head light, front, lh.	4,6A
E23	010	17	Arbeitsscheinwerfer vorne links	Working head light, front, lh.	4,6A
E25	006	8	Arbeitsscheinwerfer vorne rechts	Working head light, front, rh.	4,6A
E25	010	18	Arbeitsscheinwerfer vorne rechts	Working head light, front, rh.	4,6A
E27	006	4	Arbeitsscheinwerfer hinten links	Working head light, rear, lh.	4,6A
E27	010	16	Arbeitsscheinwerfer hinten links	Working head light, rear, lh.	4,6A
E28	006	5	Arbeitsscheinwerfer hinten rechts	Working head light, rear, rh.	4,6A
E28	010	16	Arbeitsscheinwerfer hinten rechts	Working head light, rear, rh.	4,6A
E29	010	7	Innenleuchte Kabine	Inside light, cabin	1,3A
E30	010	2	Heizgeraet	Heating unit	
E32	010	20	Kennleuchte	Warning light	5A
E41	007	2	Umrissleuchte vorne links	Contour illumination front, lh.	MAX. 0,42A
E42	007	3	Umrissleuchte hinten links	Contour illumination rear, lh.	MAX. 0,42A
E43	007	6	Umrissleuchte vorne rechts	Contour illumination front, rh.	MAX. 0,42A
E44	007	6	Umrissleuchte hinten rechts	Contour illumination rear, rh.	MAX. 0,42A
F00	002	2	Hauptsicherung Batterie	Fuse, main, battery	125A
F02	010	19	Ersatzsicherung	Fuse, spare	10A
F03	004	15	Sicherung Vibration	Fuse, vibration	30A
F05	002	1	Sicherung Steckdose	Fuse, socket	30A
F07	007	12	Sicherung Warnblinker	Fuse, hazard light	15A
F08	007	12	Sicherung Blinker u. Arbeitsscheinw.	Fuse, indicators a. work. head light	15A
F09	007	4	Sicherung Park− u. Schlussl. links	Fuse, parking and tail light, lh.	15A
F10	007	5	Sicherung Park− u. Schlussl. rechts	Fuse, parking and tail light, rh.	15A
F11	007	9	Sicherung Scheinwerfer links	Fuse, head light, lh.	15A
F13	002	16	Sicherung Startschalter	Fuse, starter switch	30A
F17	010	18	Sicherung Radio	Fuse, radio	10A
F19	006	6	Sicherung Arbeitsscheinw. vorne li.	Fuse, working head light, front, lh.	30A
F22	006	4	Sicherung Arbeitsscheinwerfer hinten	Fuse, working head lights, rear	30A
F24	002	5	Sicherung Ueberwachungsmodul	Fuse, monitoring module	30A
F25	004	2	Sicherung Magnetv. Fahren u. Bremse	Fuse, sol. valve, travel and brake	30A
F31	010	14	Sicherung Kabinenluefter	Fuse, cabin ventilator	15A
F38	008	2	Sicherung Terrameter	Fuse, terrameter	20A
F40	010	3	Sicherung Kabinenheizung	Fuse, heating unit cab	20A
F42	010	7	Sicherung Kabineninnenleuchte	Fuse, inside light cab	10A
F43	010	9	Sicherung Wischermotor hinten	Fuse, wipermotor rear	10A
F44	010	11	Sicherung Wischermotor vorn	Fuse, wipermotor front	10A
F48	002	3	Sicherung Gluehanlage	Fuse, glow plug system	125A
G01	002	2	Batterie	Battery	
G02	002	4	Generator	Generator	
G03	002	3	Batterie	Battery	
H05	007	13	Meldeleuchte Blinker	Indicator light, indicators	
H06	007	13	Meldeleuchte Warnblinker	Indicator light, hazard light	
H07	003	5	Warnsummer Betriebsstoerung	Warning buzzer, breakdown	
H07	006	18	Warnsummer Betriebsstoerung	Warning buzzer, breakdown	
H08	002	5	Meldeleuchte Ladekontrolle	Indicator light, charge control	
H09	002	8	Meldeleuchte Oeldruck Motor	Indicator light, engine oil pressure	
H14	004	5	Warnsummer Rueckwaertsfahrt	Back−up alarm buzzer	MAX. 0,12A
H28	002	8	Meldeleuchte Kuehlmitteltemperatur	Indicator light, engine coolant temp.	
H34	003	14	Meldeleuchte Vorgluehen	Indicator light, glowing	
H56	009	10	Meldeleuchte "Weiter"	Indicator light, "continue"	

Gez.: 15.11.02
Name: Sels
Gepr.: 15.11.02
Name: Werner

Bauteilliste
component listing

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Replaces:

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Standardverkabelung: dicke Linien standard wireing: thick lines	Platinenverdrahtung: dünne Linien connection on printed circuit board: thin lines

Inhaltsverzeichnis: BW 211-3 / C840C

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General

Single drum rollers of product range BW 211 D-3 are self-propelled soil compaction machines, which are particularly suitable for medium to heavy compaction duties in earth construction.

Single drum rollers of product range BW 211 D-3 are from 2003 powered by a water cooled Deutz diesel engine of series BF4M 2012C.

Diesel engine driven pumps transfer the output power of the engine via hydrostatic circuits to drum, wheels and steering cylinder. These hydrostatic drives guarantee lowest possible power losses and high efficiency.

Front and rear frame are connected by an oscillating articulated joint. The amply dimensioned oscillation angle makes sure that drum and wheels are always in contact with the ground.

The rear axle is fitted with multi disc brakes in the planetary drives. The brakes have the function of parking brakes. When starting the diesel engine the brakes are automatically released by the increasing charge pressure. They close again automatically when shutting the engine down. The brakes can also be applied when the engine is running, by simply actuating a special brake valve. However, this possibility should only be used to park the machine for a short while with the engine running. This parking brake must not be used as service brake, because the deceleration effect is very high and the brake discs would be damaged.

All machines of this type work with hydraulic travel systems for rear wheels and drum.

The actual compaction tool, the drum, is equipped with a vibration shaft, which is running in cylinder roller bearings. The vibration shaft is driven by a hydraulic motor via an elastic Bowex coupling.

Vibration of the drum is accomplished by the centrifugal forces generated by the rotating eccentric weights.

Since the machine is designed to work with two different frequencies and amplitudes, the sense of rotation of the vibration shaft can be reversed. Changing the sense of rotation effects also the position of the change-over weights inside the eccentric weights on the shaft. This changes also the centrifugal force and the amplitude. The rotary speed of the vibrator shaft is also different to both directions. This means that the vibration frequency will also change.

The change-over weights inside the eccentric weights are arranged in combination with the hydraulic system in such a way, that the high amplitude works with low frequency and vice versa.

The combination of high amplitude and low frequency is particularly suitable for compaction duties in heavy earth work and for pre-compaction work. Low amplitude in combination with high frequency should be used for final compaction during the last passes.

The individual machine functions such as travel system, vibration and steering are described in detail in the respective chapters.

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Tools

The following tools can be ordered from the respective supplier (in brackets) under the stated part-number.

For tools from Hazet and Bosch you should consult your nearest representative, orders to Wilbär should be addressed to:

Co. Wilbär
P.O. box 140580
D - 42826 Remscheid

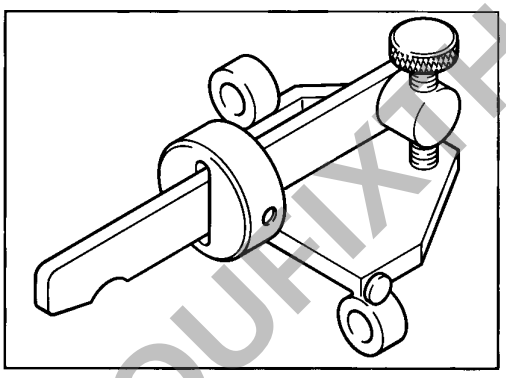


Fig. 31

- Pressing device for governor rod 100 830 (Wilbär)

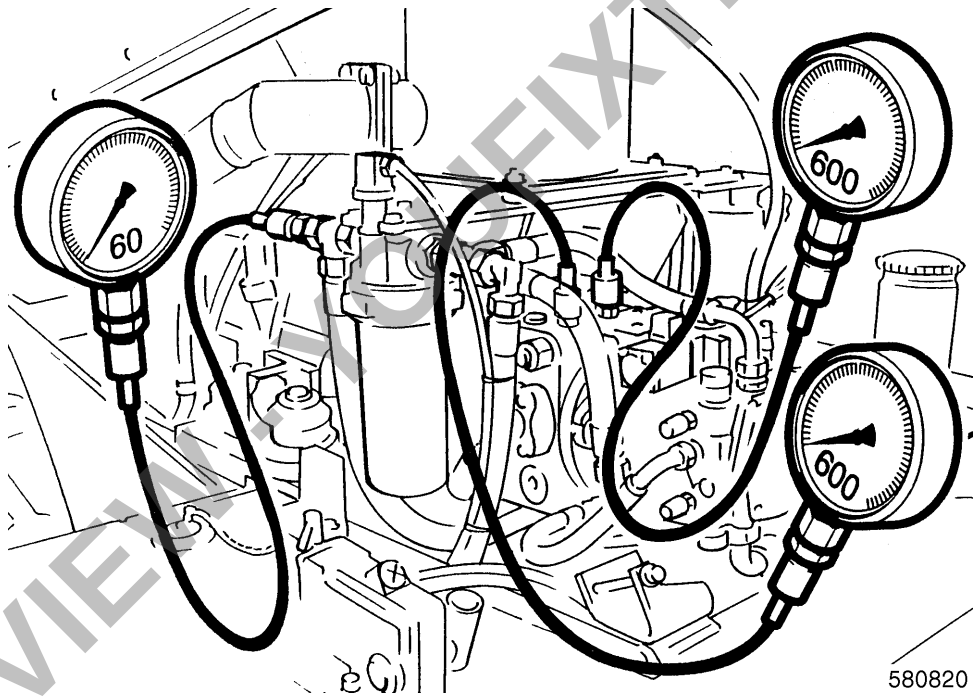
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Fig. F9:
Checking high pressure

- Connect 600 bar pressure gauges to the high pressure test ports
- Connect a 60 bar pressure gauge to the charge pressure test port
- Pull the plug off the brake solenoid valve and block the drum
- Start the engine and run it with max. speed
- Drive the machine against the closed brake, for this purpose actuate the travel lever for a moment and read the pressure gauges

Nominal values: High pressure 425 +/-15 bar, charge pressure 25 +/- 1 bar



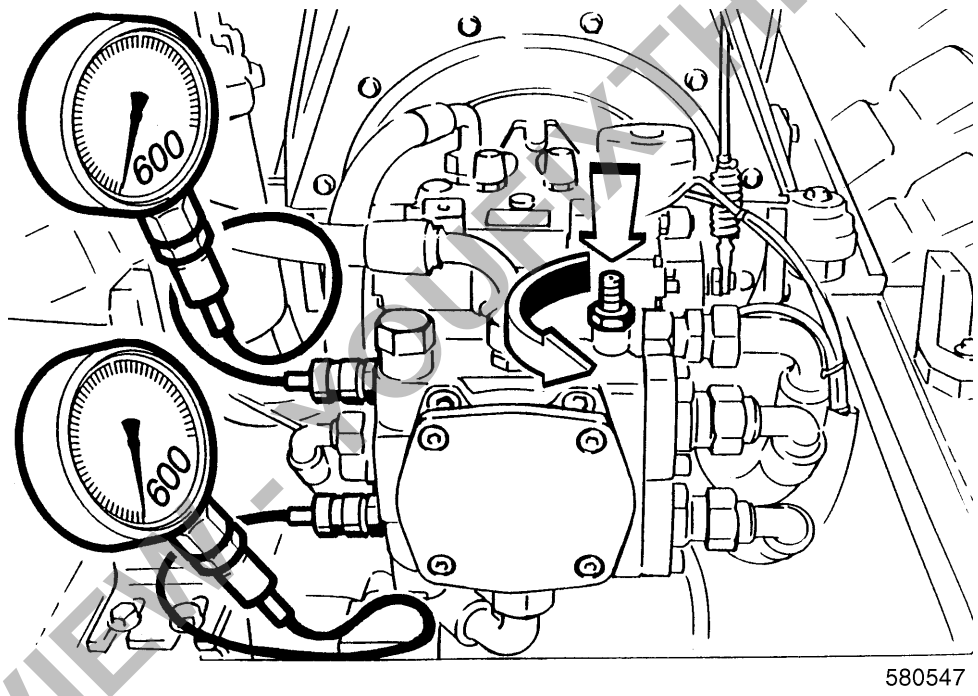
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Fig. V10
Adjusting the pressure override

- Slacken the counter nut on the pressure override adjustment screw
- Check the vibration pressures (Fig. V1)
- Adjust the pressure override adjustment screw until the specified value is reached (turn out = pressure increase); if necessary replace the pressure override valve.
- Retighten the counter nut, take care not to change the setting of the adjustment screw

Nominal value: approx. 365 bar



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