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Bez.	Druck (max)
MA	405 bar
MB	405 bar
M1	30 bar
M1*	170 bar
M2	220 bar
M3	120 bar

* Lenkung gegen Anschlag

Pos.	Benennung	Discription
01	Verstellpumpe	Variable displacem. pump
02	Fahrmotor vorne	Travel motor front
03	Fahrmotor hinten	Travel motor rear
04	Zahnradpumpe (Vibr.)	Gear pump (Vibr.)
05	Zahnradpumpe (Einsp.)	Gear pump (Charging)
06	Vibrationsventil	Vibration valve
07	Vibrationsmotor vorne	Vibration motor front
08	Vibrationsmotor hinten	Vibration motor rear
09	Lenkeinheit	Steering unit
10	Lenkzylinder	Steering cylinder
11	Ölkühler	Oil cooler

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BOMAG GMBH BOPPARD

Gez.: 30.04.1999
Name: Knelp
Gepr.:
Name:

Bauteilliste
component listing

Ers.f.:
Replaces:

Seite: 1 von: 4
page: from:

Blatt Nr.: 990 107 50
sheet no.: 101

Name	Bl.	Pf.	Benennung	title	TYP
A01	004	4	Intervallschalter Berieselungssystem	Interval switch, sprinkler system	
A02	006	6	Blinkrelais	Indicator relay	
A10	003	13	Schaltkreis Bremssteuerung	Switching network, brake control	
B06	002	16	Druckschalter Motoroel	Pressure switch, engine oil	
B08	003	2	Naeherungsinitiator Fahrhebel '0'−Stell.	Proximity switch, travel lever '0' pos.	MAX. 0,3A
B11	004	2	Signalhorn	Warning horn	50W
B20	002	13	Temperaturschalter Hydraulikoel	Temperature switch, hydraulic oil	87−92C
B20	002	17	Temperaturschalter Hydraulikoel	Temperature switch, hydraulic oil	50−55C
B30	002	15	Temperaturschalter Motoroel	Temperature switch, engine oil	
B32	004	14	Naeherungsinitiator Rueckfahrwarneinrichtung	Proximity switch, back up alarm	
B35	003	7	Naeherungsinitiator Vibrationsautomatik	Proximity switch, vibration autom.	MAX. 0,3A
B38	003	4	Naeherungsinitiator Vibrationssperre	Proximity switch, vibration lock	MAX. 0,3A
B38	003	6	Naeherungsinitiator Vibrationssperre	Proximity switch, vibration lock	MAX. 0,3A
E08	006	9	Blinkleuchte vorne links	Indicator, front, lh.	21W
E09	006	10	Blinkleuchte hinten links	Indicator, rear, lh.	21W
E10	006	11	Blinkleuchte vorne rechts	Indicator, front, rh.	21W
E11	006	12	Blinkleuchte hinten rechts	Indicator, rear, rh.	21W
E12	006	14	Parkleuchte links	Parking light, lh.	10W
E13	006	13	Schlussleuchte links	Tail light, lh.	10W
E14	006	15	Parkleuchte rechts	Parking light, rh.	10W
E15	006	16	Schlussleuchte rechts	Tail light, rh.	10W
E23	006	1	Arbeitsscheinwerfer vorne links	Working head light, front, lh.	55W
E23	006	16	Arbeitsscheinwerfer vorne links	Working head light, front, lh.	55W
E25	006	2	Arbeitsscheinwerfer vorne rechts	Working head light, front, rh.	55W
E25	006	17	Arbeitsscheinwerfer vorne rechts	Working head light, front, rh.	55W
E27	006	3	Arbeitsscheinwerfer hinten links	Working head light, rear, lh.	55W
E27	006	19	Arbeitsscheinwerfer hinten links	Working head light, rear, lh.	55W
E28	006	4	Arbeitsscheinwerfer hinten rechts	Working head light, rear, rh.	55W
E28	006	20	Arbeitsscheinwerfer hinten rechts	Working head light, rear, rh.	55W
E32	004	13	Kennleuchte	Warning light	5,5A
F01	002	3	Hauptsicherung	Fuse, main	40A
F06	004	6	Sicherung Berieselung	Fuse, sprinkler system	15A
F07	006	6	Sicherung Warnblinker	Fuse, hazard light	15A
F08	006	7	Sicherung Blinker u. Arbeitsscheinw.	Fuse, indicators a. work. head light	15A
F09	006	14	Sicherung Park− u. Schlussl. links	Fuse, parking and tail light, lh.	15A
F10	006	16	Sicherung Park− u. Schlussl. rechts	Fuse, parking and tail light, rh.	15A
F11	006	2	Sicherung Scheinwerfer links	Fuse, head light, lh.	15A
F11	006	16	Sicherung Scheinwerfer links	Fuse, head light, lh.	15A
F12	006	3	Sicherung Scheinwerfer rechts	Fuse, head light, rh.	15A
F12	006	19	Sicherung Scheinwerfer rechts	Fuse, head light, rh.	15A
F27	005	3	Sicherung Wischer u. Wascher vorne	Fuse, windscr. wiper and washer, fr.	15A
F41	004	13	Sicherung Rundumkennleuchte	Fuse, rotary beacon	10A
F45	004	18	Sicherung Kantenschneidgeraet	Fuse, edgecutter	10A
F46	002	5	Sicherung Leiterbahn mit LED	Fuse, printed circuit board with LED	4X3A
F46	002	7	Sicherung Leiterbahn mit LED	Fuse, printed circuit board with LED	1X3A
F46	002	7	Sicherung Leiterbahn mit LED	Fuse, printed circuit board with LED	1X3A
F46	002	7	Sicherung Leiterbahn mit LED	Fuse, printed circuit board with LED	1X3A
F46	002	10	Sicherung Leiterbahn mit LED	Fuse, printed circuit board with LED	1X3A
F46	002	11	Sicherung Leiterbahn mit LED	Fuse, printed circuit board with LED	2X3A
F46	002	12	Sicherung Leiterbahn mit LED	Fuse, printed circuit board with LED	2X3A
F46	002	12	Sicherung Leiterbahn mit LED	Fuse, printed circuit board with LED	3X3A
F46	002	13	Sicherung Leiterbahn mit LED	Fuse, printed circuit board with LED	2X3A
F46	002	16	Sicherung Leiterbahn mit LED	Fuse, printed circuit board with LED	1X3A
F46	002	18	Sicherung Leiterbahn mit LED	Fuse, printed circuit board with LED	5X4A
F46	003	2	Sicherung Leiterbahn mit LED	Fuse, printed circuit board with LED	1X3A
F46	003	6	Sicherung Leiterbahn mit LED	Fuse, printed circuit board with LED	1X3A
F46	003	9	Sicherung Leiterbahn mit LED	Fuse, printed circuit board with LED	1X3A
F46	003	10	Sicherung Leiterbahn mit LED	Fuse, printed circuit board with LED	2X3A
F46	003	12	Sicherung Leiterbahn mit LED	Fuse, printed circuit board with LED	3X3A
F46	003	14	Sicherung Leiterbahn mit LED	Fuse, printed circuit board with LED	1X3A
F46	003	14	Sicherung Leiterbahn mit LED	Fuse, printed circuit board with LED	2X3A
F46	003	17	Sicherung Leiterbahn mit LED	Fuse, printed circuit board with LED	1X3A
F46	003	18	Sicherung Leiterbahn mit LED	Fuse, printed circuit board with LED	1X3A
F46	003	19	Sicherung Leiterbahn mit LED	Fuse, printed circuit board with LED	1X3A
F46	004	2	Sicherung Leiterbahn mit LED	Fuse, printed circuit board with LED	2X3A
F46	004	2	Sicherung Leiterbahn mit LED	Fuse, printed circuit board with LED	3X3A
F46	004	3	Sicherung Leiterbahn mit LED	Fuse, printed circuit board with LED	3X4A
F46	004	5	Sicherung Leiterbahn mit LED	Fuse, printed circuit board with LED	1X3A
F47	002	4	Sicherung Leiterbahn ohne LED	Fuse, printed circuit board without LED	1X3A
F47	002	8	Sicherung Leiterbahn ohne LED	Fuse, printed circuit board without LED	1X3A
F47	002	10	Sicherung Leiterbahn ohne LED	Fuse, printed circuit board without LED	1X3A
F47	002	10	Sicherung Leiterbahn ohne LED	Fuse, printed circuit board without LED	1X3A
F47	002	13	Sicherung Leiterbahn ohne LED	Fuse, printed circuit board without LED	1X3A
F47	002	15	Sicherung Leiterbahn ohne LED	Fuse, printed circuit board without LED	1X3A
F47	003	5	Sicherung Leiterbahn ohne LED	Fuse, printed circuit board without LED	1X3A
F47	006	5	Sicherung Leiterbahn ohne LED	Fuse, printed circuit board without LED	1X3A
F47	006	8	Sicherung Leiterbahn ohne LED	Fuse, printed circuit board without LED	1X3A
F48	002	2	Sicherung Gluehanlage	Fuse, glow plug system	80A
G01	002	4	Batterie	Battery	88AH
G02	002	5	Generator	Generator	65A
H01	003	18	Meldeleuchte Bremse	Indicator light, brake	2 WATT
H05	006	7	Meldeleuchte Blinker	Indicator light, indicators	2 WATT
H06	006	7	Meldeleuchte Warnblinker	Indicator light, hazard light	2 WATT
H07	002	10	Warnsummer Betriebsstoerung	Warning buzzer, breakdown	
H08	002	7	Meldeleuchte Ladekontrolle	Indicator light, charge control	2 WATT
H09	002	16	Meldeleuchte Oeldruck Motor	Indicator light, engine oil pressure	2 WATT
H14	004	16	Warnsummer Rueckwaertsfahrt	Back−up alarm buzzer	
H20	003	17	Meldeleuchte Sitzkontaktschalter	Indicator light, drivers seat contact	2 WATT
H21	002	13	Meldeleuchte Oeltemperatur	Indicator light, oil temperature	2 WATT
H25	002	15	Meldeleuchte Motoroeltemperatur	Indicator light, engine oil temperature	2 WATT
H34	002	1	Meldeleuchte Vorgluehen	Indicator light, glowing	2 Watt
K04	003	12	Schrittrelais Vibration	Toggle relay, vibration	
K05	003	3	Relais Startstrom	Relay, starting current	BOSCHW

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Adjusting the valve clearance

The valve clearance must only be checked and adjusted when the engine is cold.

Valve clearance: Intake valve 0.3 mm

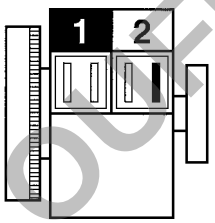
Exhaust valve 0.5 mm

Note: Immediately after changing the cylinder head gasket the specified values for intake and exhaust valves must be increased by 0.1 mm.

> Remove the cylinder head covers

> Turn the crankshaft until the valves on cylinder 1 overlap (exhaust valve is not yet closed, intake valve starts to open)

> Perform inspection and adjustment of valve clearance according to the adjustment diagram (black marks).



Note: The valve marked black in Fig. 6 is adjustable.

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Trouble shooting travel system

Machine does not drive

Checking the function of the brake valve

> Switch the ignition on

> Release the parking brake by shifting the travel lever out of neutral position

> Measure the voltage supply on the solenoid valve

Nominal value: 12 V

If the voltage supply is not correct perform trouble shooting in the electric system.

If the voltage supply is correct

the **current** consumption of the brake valve must be checked next:

> For this purpose the meter must be connected **in line** with the solenoid of the brake valve

> Switch the ignition on

Nominal value: max. 1.2 A

If no current consumption can be detected, change the solenoid coil

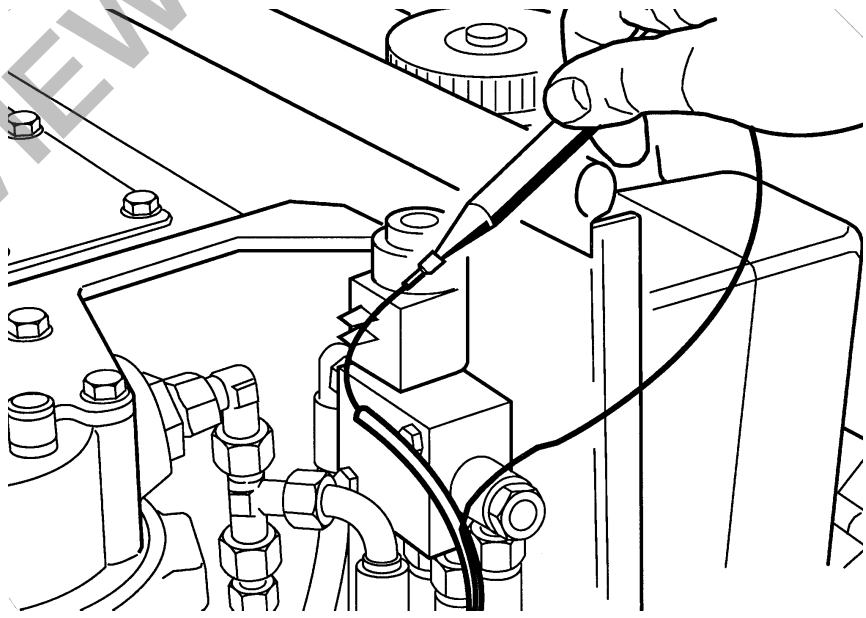


Fig. 19

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List of additional documentation

Operating and maintenance instructions

Machine	Part-No.:	S/N
BW 100 AD-3	008 127 20	101 150 51 3347
BW 100 AC-3	008 127 20	101 150 61 1051
BW 120 AD-3	008 127 20	101 170 51 4967
BW 120 AC-3	008 127 20	101 170 61 1032

Spare parts catalogue

Machine	Part-No.:	S/N
BW 100 AD-3	008 101 85	101 150 51 3347
BW 100 AC-3	008 101 86	101 150 61 1051
BW 120 AD-3	008 101 85	101 170 51 4967
BW 120 AC-3	008 101 86	101 170 61 1032

Repair instructions

Machine	Part-No.:	S/N
BW 100 AD-3	008 193 40	101 150 51 3347
BW 100 AC-3	008 193 40	101 150 61 1051
BW 120 AD-3	008 193 40	101 170 51 4967
BW 120 AC-3	008 193 40	101 170 61 1032

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The machine moves with the travel lever in „Neutral“

With this fault the neutral position of the pump must be checked first.

> Shift the travel lever to “Neutral” position

> Disconnect the travel cable from the pump

Check, whether bores in ball socket and pump control lever are in line.

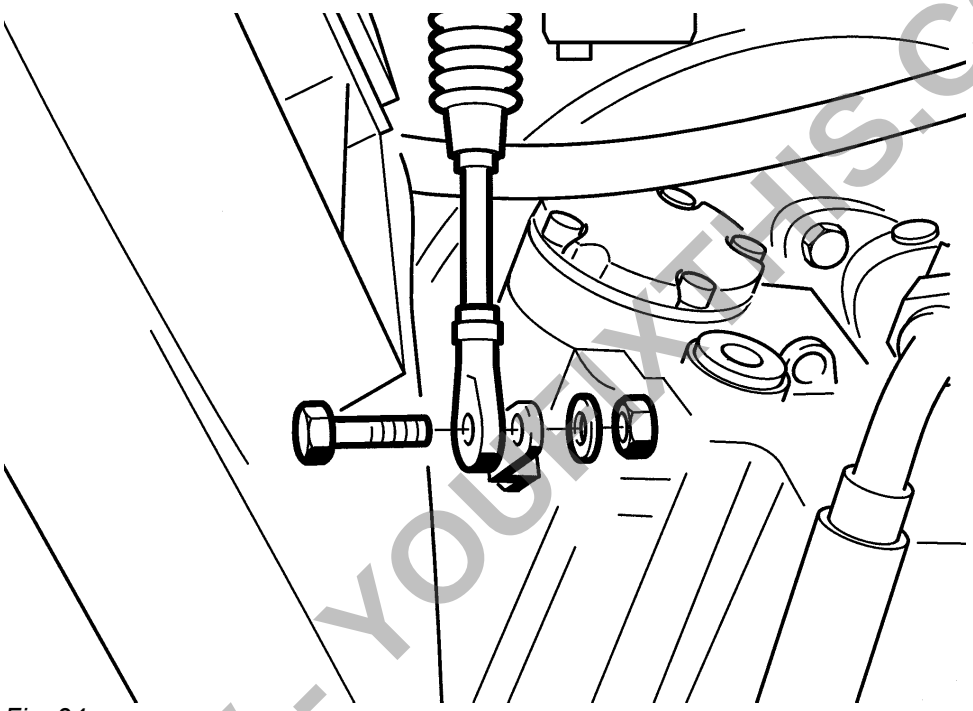


Fig. 34

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