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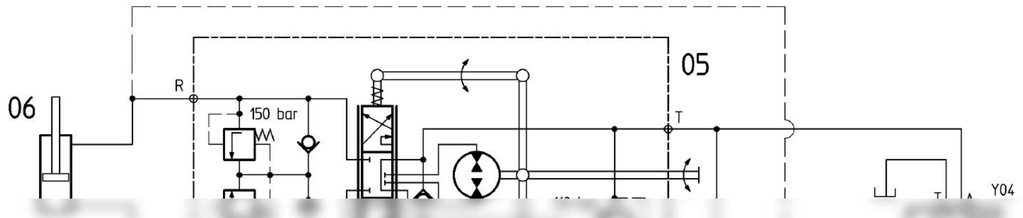
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...n of a utility model or design.

Bez.	Druck (max)
M1	20 bar
MP	220 bar
MP	130 bar
MA	300 bar
MB	300 bar
M3	110 bar

Pos.	Benennung	Designation
01	Tank	Tank
02	Fahrpumpe	Travel pump
03	Fahrmotor vorne	Travel motor front
04	Fahrmotor hinten	Travel motor rear
05	Lenkeinheit	Steering unit
06	Lenkzylinder	Steering cylinder
07	Vibrationsventil	Vibration Valve
08	Filter	Filter
09	Vibrationsmotor hinten	Vibration motor rear
10	Verbrennungsmotor	Engine



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Trouble shooting

Fault	Possible cause	Remedy
The engine does not start	• No fuel	Fill in fuel
	• Air in fuel system	Bleed
	• Water in fuel system	Replace the fuel and repair or renew the fuel system
	• Fuel line clogged	Clean
	• Fuel filter clogged	Replace
	• Too high fuel viscosity or use of incorrect engine oil for the ambient temperature	Use the specified fuel
	• Fuel with too low Cetan-number	Use specified fuel
	• Loss of fuel because of loosened locking nut on the injection line	Tighten the nut
	• Incorrect setting of injection	Adjust
	• Fuel camshaft worn	Replace
	• Injection nozzle clogged	Clean
	• Faulty function of the fuel lift pump	Repair or replace
	• Crankshaft, camshaft, piston or bearings seized	Repair or replace
	• Loss of compression on cylinder	Replace the cylinder head gasket. Tighten cylinder head screws, glow plug and nozzle holder
	• Incorrect valve seat alignment, valve spring broken, valve jammed	Repair or replace
	• Insufficient valve control	Adjust
	• Piston ring worn	Replace
	• Excessive valve clearance	Adjust
	• Battery discharged	Recharge
Starter does not work	•Faulty function of starter	Repair or replace
	• Faulty function of ignition switch	Repair or replace
	• Wiring loose	Connect

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Name	Bl.	Pf.	Benennung	title	TYP
	006	4			30A
A01	004	11	Intervallschalter Berieselungssystem	Interval switch, sprinkler system	
A02	005	10	Blinkrelais	Indicator relay	
A68	006	16	Modul Sitzkontakt	Modul seat contact	
B06	002	18	Druckschalter Motoroel	Pressure switch, engine oil	
B08	003	2	Naeherungsinitiator Fahrhebel '0'−Stell.	Proximity switch, travel lever '0' pos.	max 300mA
B11	004	7	Signalhorn	Warning horn	50W
B32	003	17	Naeherungsinitiator Rueckfahrwarneinrichtung	Proximity switch, back up alarm	max 300mA
B38	004	6	Naeherungsinitiator Vibrationssperre	Proximity switch, vibration lock	max 300mA
B53	002	19	Temperaturgeber Kuehlmittel	Temperature switch, collant	
E08	005	13	Blinkleuchte vorne links	Indicator, front, lh.	21W
E09	005	14	Blinkleuchte hinten links	Indicator, rear, lh.	21W
E10	005	15	Blinkleuchte vorne rechts	Indicator, front, rh.	21W
E11	005	16	Blinkleuchte hinten rechts	Indicator, rear, rh.	21W
E12	005	18	Parkleuchte links	Parking light, lh.	10W
E13	005	2	Schlussleuchte links	Tail light, lh.	21W
E13	005	17	Schlussleuchte links	Tail light, lh.	10W
E14	005	4	Parkleuchte rechts	Parking light, rh.	21W
E14	005	19	Parkleuchte rechts	Parking light, rh.	10W
E15	005	20	Schlussleuchte rechts	Tail light, rh.	10W
E23	005	2	Arbeitsscheinwerfer vorne links	Working head light, front, lh.	55W
E23	005	7	Arbeitsscheinwerfer vorne links	Working head light, front, lh.	55W
E25	005	3	Arbeitsscheinwerfer vorne rechts	Working head light, front, rh.	55W
E25	005	8	Arbeitsscheinwerfer vorne rechts	Working head light, front, rh.	55W
E32	004	8	Kennleuchte	Warning light	55W
F00	002	3	Hauptsicherung Batterie	Fuse, main, battery	30A
F00	002	3	Hauptsicherung Batterie	Fuse, main, battery	30A
F03	004	4	Sicherung Vibration	Fuse, vibration	20A
F08	005	7	Sicherung Blinker u. Arbeitsscheinw.	Fuse, indicators a. work. head light	15A
F11	005	2	Sicherung Scheinwerfer links	Fuse, head light, lh.	15A
F11	005	17	Sicherung Scheinwerfer links	Fuse, head light, lh.	15A
F12	005	3	Sicherung Scheinwerfer rechts	Fuse, head light, rh.	15A
F12	005	20	Sicherung Scheinwerfer rechts	Fuse, head light, rh.	15A
F14	002	13	Sicherung Hubmagnet Motor	Fuse, shut off solenoid, engine	15A
F25	003	7	Sicherung Magnetv. Fahren u. Bremse	Fuse, sol. valve, travel and brake	15A
F68	002	1	Sicherung Potential 30	Fuse, potential 30	30A
F139	006	3	Sicherung Hubmagnet Motor	Fuse, shut off solenoid, engine	30A
G01	002	2	Batterie	Battery	55AH
G02	002	3	Generator	Generator	40A
H01	003	9	Meldeleuchte Bremse	Indicator light, brake	0,16A
H05	005	10	Meldeleuchte Blinker	Indicator light, indicators	2 Watt
H06	005	11	Meldeleuchte Warnblinker	Indicator light, hazard light	2 Watt
H07	003	19	Warnsummer Betriebsstoerung	Warning buzzer, breakdown	
H08	002	3	Meldeleuchte Ladekontrolle	Indicator light, charge control	0,16A
H09	002	18	Meldeleuchte Oeldruck Motor	Indicator light, engine oil pressure	2 Watt
H20	003	8	Meldeleuchte Sitzkontaktschalter	Indicator light, drivers seat contact	0,16A
H28	002	19	Meldeleuchte Kuehlmitteltemperatur	Indicator light, engine coolant temp.	2 Watt
H34	002	7	Meldeleuchte Vorgluehen	Indicator light, glowing	2 Watt
H82	006	6	Warnsummer Sitzkontakt	Warning buzzer, seat contact	
H82	006	7	Warnsummer Sitzkontakt	Warning buzzer, seat contact	
K04	004	4	Schrittrelais Vibration	Toggle relay, vibration	
K05	003	2	Relais Startstrom	Relay, starting current	BOSCHW
K22	006	14	Relais Hubmagnet Motor	Relay, shut off solenoid, engine	BOSCHW
K23	004	11	Relais Berieselungssystem	Relay, sprinkler system	BOSCHW
K29	004	6	Relais Vibrationsschalter	Relay, switch, vibration	BOSCHW
K33	003	6	Relais Warnsummer Betriebsstoerung	Relay, warning buzzer, failure indication	BOSCHW
K34	003	7	Relais Sitzkontaktschalter	Relay, switch, drivers seat	BOSCHW
K37	002	6	Zeitrelais	Timing relay	13sec.
K48	003	3	Relais Fahrhebel 0−Stellung	Relay, travel lever 0−position	BOSCHW
K96	002	14	Relais Motoroeldruck	Relay, engine oil	BOSCHW
K113	003	13	Zeitrelais	Timing relay	
K137	006	10	Relais Sitzkontaktschalter	Relay, switch, drivers seat	BOSCHW
M01	002	9	Starter	Starter	0,8 kw
M02	004	10	Berieselungspumpe	Sprinkler pump	7,2A
M03	004	15	Emulsionsberieselungspumpe	Emulsion sprinkler pump	7,2A
P00	002	15	Betriebsstundenzaehler	Operating hour meter	
R02	002	4	Gluehkerze	Glow plug	8A
R02	002	5	Gluehkerze	Glow plug	8A
R02	002	6	Gluehkerze	Glow plug	8A
S00	002	7	Startschalter	Starter switch	
S01	003	11	Schalter NOT AUS	Switch, emergency off	
S01	003	11	Schalter NOT AUS	Switch, emergency off	
S03	004	7	Taster Signalhorn	Push button, warning horn	
S05	004	11	Berieselungsschalter	Switch, sprinkler system	
S05	004	13	Berieselungsschalter	Switch, sprinkler system	
S06	003	7	Sitzkontaktschalter links	Switch, seat contact, lh.	
S06	006	11	Sitzkontaktschalter links	Switch, seat contact, lh.	
S12	004	3	Vibrationsschalter Fahrhebel links	Switch, vibration, travel lever, lh.	
S13	004	4	Vibrationsschalter Fahrhebel rechts	Switch, vibration, travel lever, rh.	
S14	005	10	Warnblinkschalter	Switch, hazard light	
S15	005	7	Beleuchtungsschalter StVZO	Switch, lighting StVZO	
S16	005	2	Schalter Arbeitsbeleuchtung vorne	Switch, working head lights, front	
S19	004	15	Emulsionsberieselungsschalter	Switch, emulsion sprinkler system	
S30	002	2	Batterietrennschalter	Switch, battery disconnect	
S34	004	18	Schalter Kantenschneidgeraet	Switch, edge cutter	
S37	005	13	Schalter Blinker	Switch, indicator	
S38	004	8	Schalter Kennleuchte	Switch, warning light	
S55	003	4	Schalter Fahrhebel	Switch, travel control lever	max 6 Amp

Gez.: 25.3.3
Name: Kneip
Gepr.: 25.3.03
Name: nallin

Bauteilliste
component listing

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Inspections and adjustments

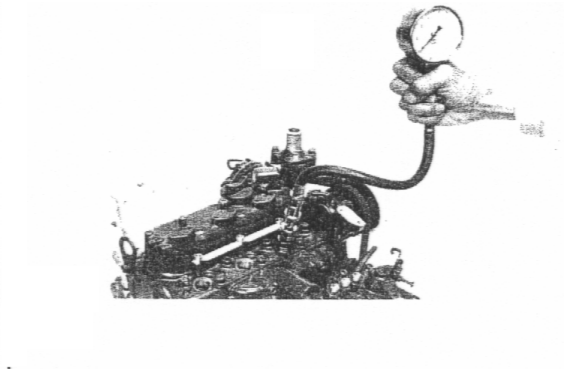


Fig 11:

Compression pressure:

1. Run the engine warm and shut it down. Remove the nozzle holders.
2. Attach a compression measuring instrument to the nozzle holder opening on the engine.
3. Make sure that the throttle lever is in top position (no injection) and crank the engine with the starter.
4. Read the maximum pressure. Repeat this measurement at least two times.
5. If the measurement is below the permissible limit, check cylinder, piston, valve and cylinder head.

Adjustment values:

Compression pressure	Factory data	28,4-32,4 bar
	Permissible limit value	22,6 bar

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Foreword

In early 1998 tandem vibratory rollers of series BW 80 AD-2, BW90 AD/AC-2 and BW100 ADM-2 were initially launched in the market. These machines are further developments of the old machine generation BW 80/90 AD, which were already very successful in the construction equipment market.
Despite this success BOMAG made the decision to develop this product range further to bring it up to the latest technical standard. The designation of the new machine types BW 80/90 AD/AC-2 is intended as a clear differentiation from the old product range. For the Service Department of BOMAG the revision of these machines was reason enough to modify the training documents accordingly and to adapt them to the latest requirements. The contents of this training should help the service engineer to apply the correct measures for adjustments and trouble shooting and to perform repair work in a professional manner. The customer should recognize that the service engineer is fully acquainted with the machine. He should see that the engineer applies the correct measures to find a possible fault on the machine and that he applies the appropriate measures in an expert way.
After this training course the participant should have the necessary confidence when working on and with the machine.

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If the max. travel speed is not reached, adjust the end stops on the travel lever.

- Adjust the front and rear stops for the travel lever.
- Check the travel cable for wear.

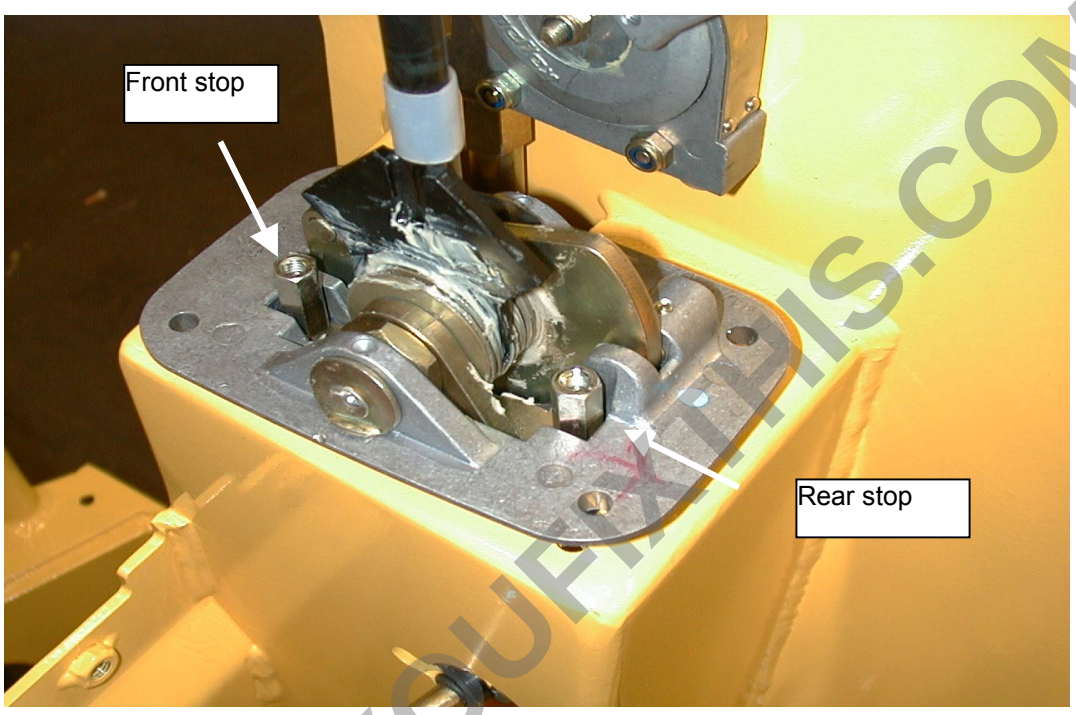


Fig. 31

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