Maintenance table

Maintenance work	Comment	Running-in inspect. (25 operat. hours.)	every 10 oper. hours	every 250 oper. hours.	every 500 oper. hours.	every 1000 oper. hours.	every 2000 oper. hours.	as required
Change the engine oil		X						
Change the engine oil filter		X						
Check the valve clearance, correct if necessary	I/E 0,1mm	X						
Check the engine for leaks		X						
Check the air filter fastening and other attachments for tight fit		X						
Tighten the fastening screws for the engine		X						
Change the oil in thevibration bearings		X						
Check the engine oil level	up to 200 h 2x daily	X						
Check the screw connections on the machine, tighten if necessary	at 200 Bh	X						
Check for leakages	up to 200 h	X						
Check the engine oil level	Dipstick		X	X	X	X	X	
Drain the water separator			X	X	X	X	X	
Check the fuel level	ca. 19 l		X	X	X	X	X	
Check the hydraulic oil level	Inspection glass		X	X	X	X	X	
Check the air intsake hose				X	X	X	X	
Clean cooling fins/cooling air blower				X	X	X	X	
Change engine oil and oil filter	min. 1 x per year			X	X	X	X	
Check, adjust the valve clearance	II/E 0,1 mm			X	X	X	X	
Check the oil level in the vibration bearings	level bore			X	X	X	X	

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- Turn the engine in sense of rotation until both valves of the 2. cylinder are overlapping (i.e. the inlet valve is not yet completely closed, the outlet valve starts to open).
- Turn the crankshaft further for 180°.
- Check the valve clearance on the 1. cylinder with a feeler gauge.

The feeler gauge must fit through the gap between rocker arm and valve shaft with only little resistance.

- Turn the crankshaft further for 180° and check the valve clearance of the 2. cylinder.

If the valve clearance is not correct, it must be adjusted to the specified value.

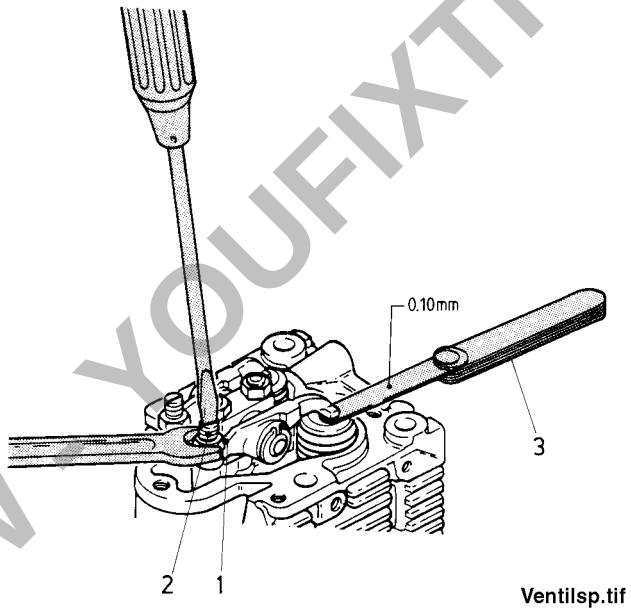


Fig. 3 Valve clearance

- Loosen the hexagon nut (1) with an open end spanner and turn the grub screw (2) with a screw driver, until the feeler gauge (3) fits through the gap between rocker arm and valve shaft with only little resistance after tightening the nut (1).
- Adjust all valves accordingly.

After the adjustment reinstall the valve covers with new gaskets.

Perform a test run and check the engine for leakages.

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

Name	Bl.	Pf.	Benennung	title	TYP
A03	007	1	Modul Vibration	modul, vibration	
B06	004	6	Druckschalter Motoroel	Pressure switch, engine oil	
B41	006	4	Naeherungsinitiator Sicherheitsbuegel	Proximity switch, security bow	max 0,3A
B56	004	8	Neigungsschalter	Slope sensor	
B86	009	1	Naeherungsschalter 2.Gang	Proximity switch, 2nd speed range	max 0,3A
F01	002	1	Hauptsicherung	Fuse, main	30A
F03	007	6	Sicherung Vibration	Fuse, vibration	10A
F04	004	4	Sicherung Instrumente	Fuse, gauges	10A
F14	002	6	Sicherung Hubmagnet Motor	Fuse, shut off solenoid, engine	25A
F26	009	1	Sicherung Magnetv. Fahrstufenumsch.	Fuse, sol. valve, speed range sel.	10A
F53	003	8	Sicherung Magnetventil Kraftstoff	Fuse, solenoid valve fuel	20A
F54	003	4	Sicherung Kabelsteuerung	Fuse, cable control	15A
F55	009	3	Sicherung Magnetventil vorwaerts fahren links	Fuse, solenoid valve travel vorwards, lh.	10A
F56	009	5	Sicherung Magnetventil rueckw. fahren, links	Fuse, solenoid valve, travel revers, lh	10A
F57	009	8	Sicherung Magnetv. vorwaerts fahren rechts	Fuse, solenoid valve travel vorwards, rh.	10A
F78	007	3	Sicherung Vibration	Fuse, vibration	10A
F79	009	9	Sicherung Magnetventil rueckw. fahren rechts	Fuse, solenoid valve travel revers, rh	10A
F81	007	4	Sicherung Vibration	Fuse, vibration	10A
G01	002	2	Batterie	Battery	
G02	002	3	Generator	Generator	
H07	004	9	Warnsummer Betriebsstoerung	Warning buzzer, breakdown	
H08	004	4	Meldeleuchte Ladekontrolle	Indicator light, charge control	
H09	004	6	Meldeleuchte Oeldruck Motor	Indicator light, engine oil pressure	
K11	003	5	Relais Klemme 30 auf 15	Relay, terminal 30 to 15	BOSCHW
K37	003	9	Zeitrelais	Timing relay	
K39	003	3	Relais Anlasser	Relay, starter	BOSCHW
K45	009	1	Relais 2.Gang	Relay, 2nd speed range	BOSCHW
K68	004	8	Relais Neigungsschalter	Relay, slope sensor	BOSCHW
K72	006	4	Relais Sicherheitsbuegel	Relay, security bow	BOSCHW
K88	006	5	Relais Sicherheitsbuegel	Relay, security bow	BOSCHW
K92	004	2	Relais Betriebsstundenzaehler	Relay, operating hour meter	BOSCHW

1	2	3	4	5	6	7	8	9	10

BOMAG BOMAG GMBH BOPPARD	Gez.: 14.10.99 Name: Nallin Gepr.: 14.10.1999 Name: Werner	Bauteilliste component listing	Seite: 1 von: 5 page: 1 from: 5 Ers.f.: Replaces:	990 108 96 Blatt Nr.: 101 sheet no.: 101

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Documentation

For the multi-purpose compactor BMP 851 the following documents are available:

1. Operating and maintenance instructions

Catalogue No.:	from serial-no.	to serial-no.
008 152 31	101 720 03 0101	

2. Spare parts catalogue

Catalogue No.:	from serial-no.	to serial-no.
008 152 00	101 720 03 0101	

3. Electric circuit diagram*

Drawing No.:	from serial-no.	to serial-no.
724 001 15	101 720 03 0101	101 720 03 0230
724 001 30	101 720 03 0231	101 720 03 1163
724 001 31	101 720 03 1164	

4. Hydraulic diagram*

Drawing No.:	from serial-no.	to serial-no.
724 201 03	101 720 03 0101	

5. Repair instruction

Catalogue No.:	from serial-no.	to serial-no.
008 193 24	101 720 03 0101	

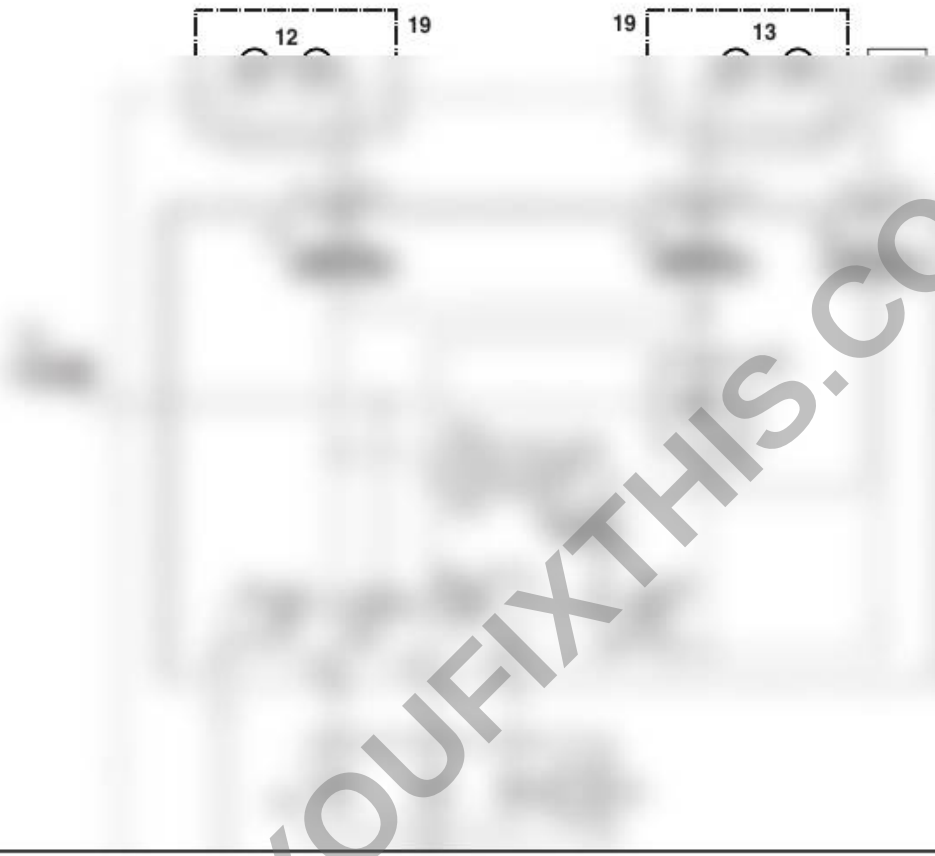
6. Service information

Remark:

* These documents are part of this training manual

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