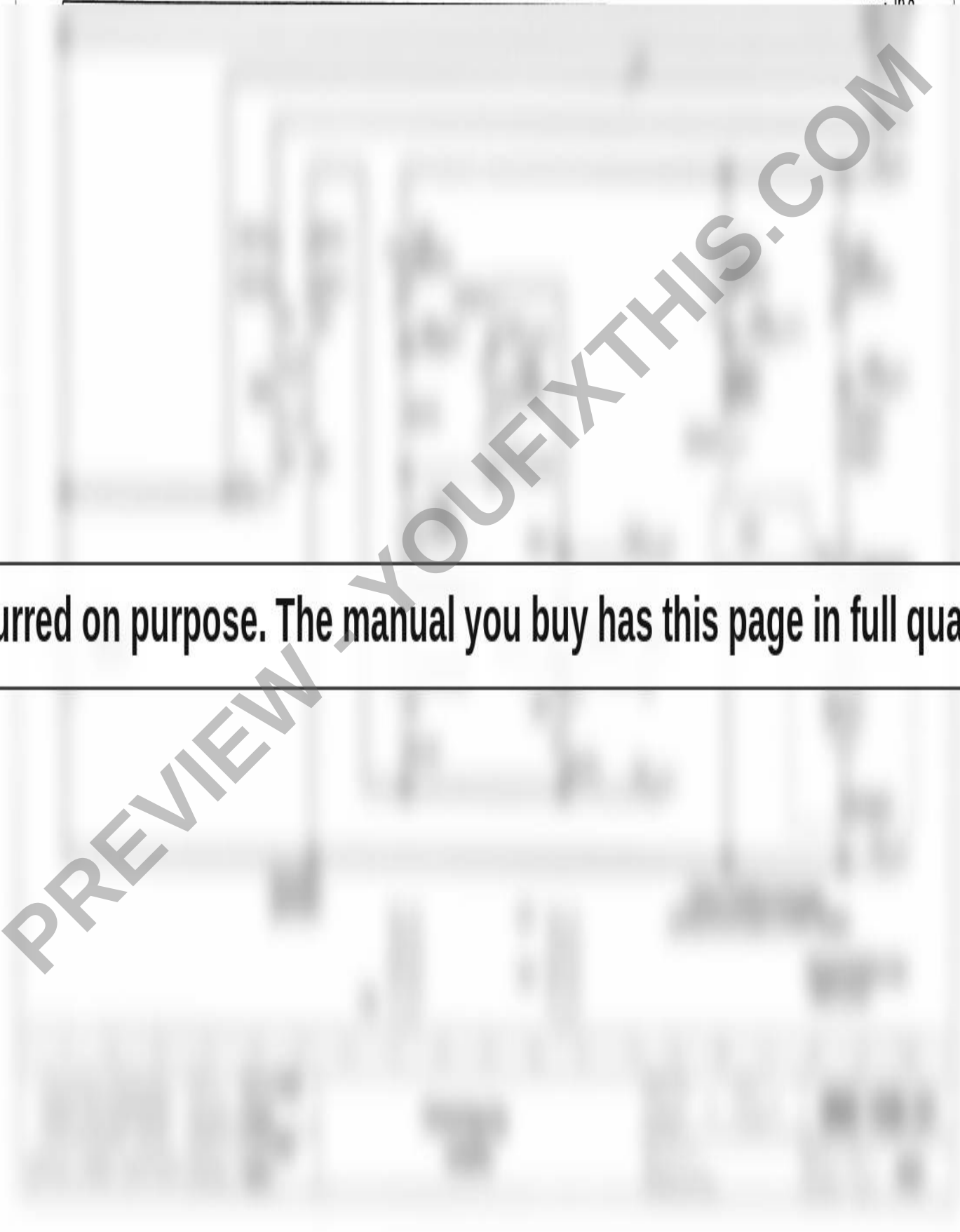
Standardverkabelung: dicke Linien standard wireing: thick lines	Platinenverdrahtung: dünne Linien connection on printed circuit board: thin lines

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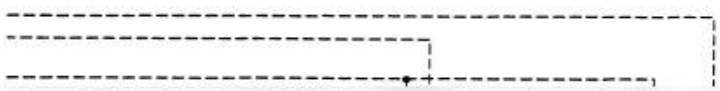


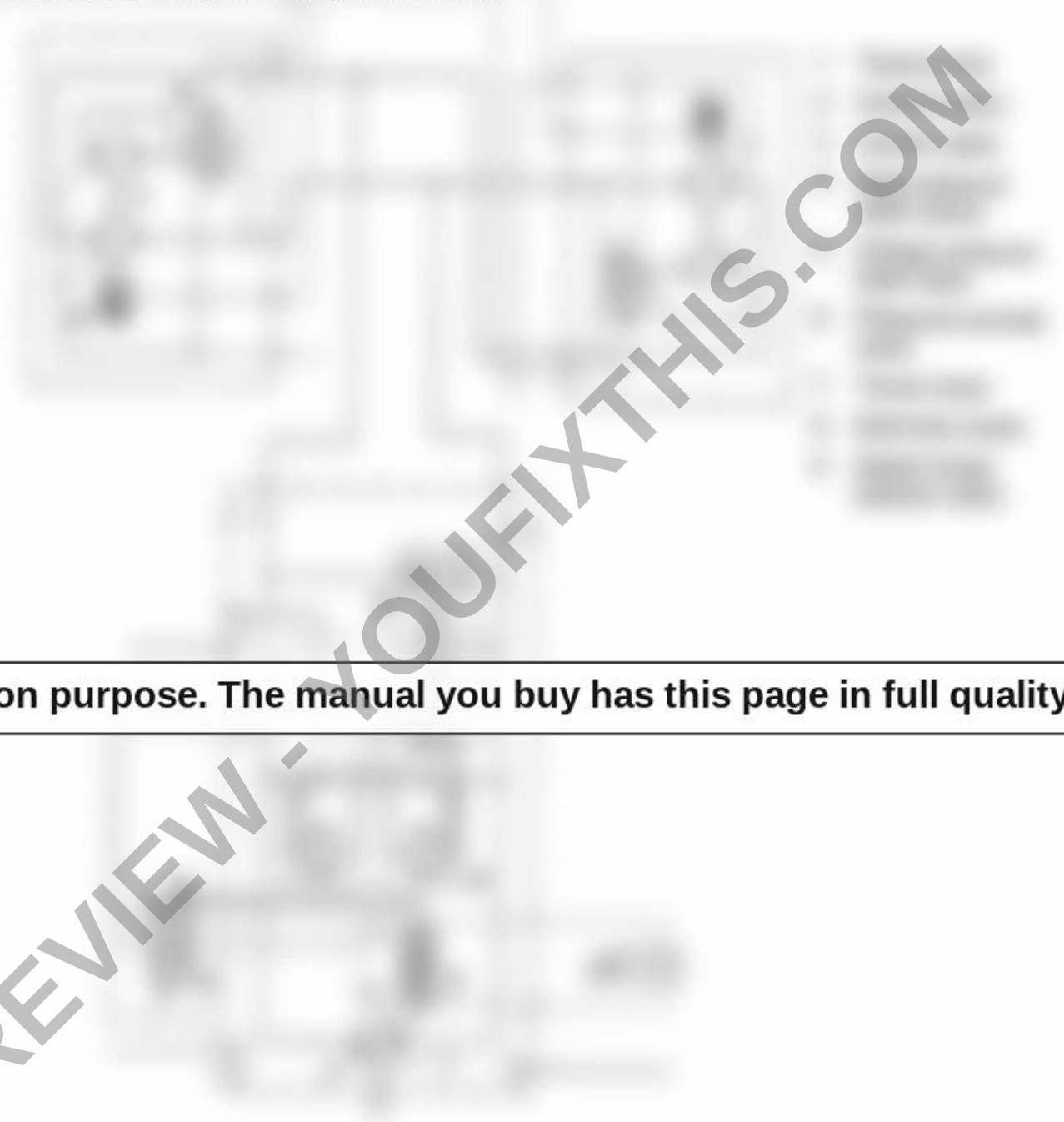
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Travel system





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Trouble shooting travel system

The machine moves with the travel lever in neutral

When the travel lever is in neutral position the machine must not move, because the closed hydraulic circuit has the function of a service brake.

If the machine moves you should first of all check the neutral position.

- Set the travel lever to neutral position.
- Disconnect the travel cable from the pump control lever .
- Check whether bores in fork head and control lever are in line.

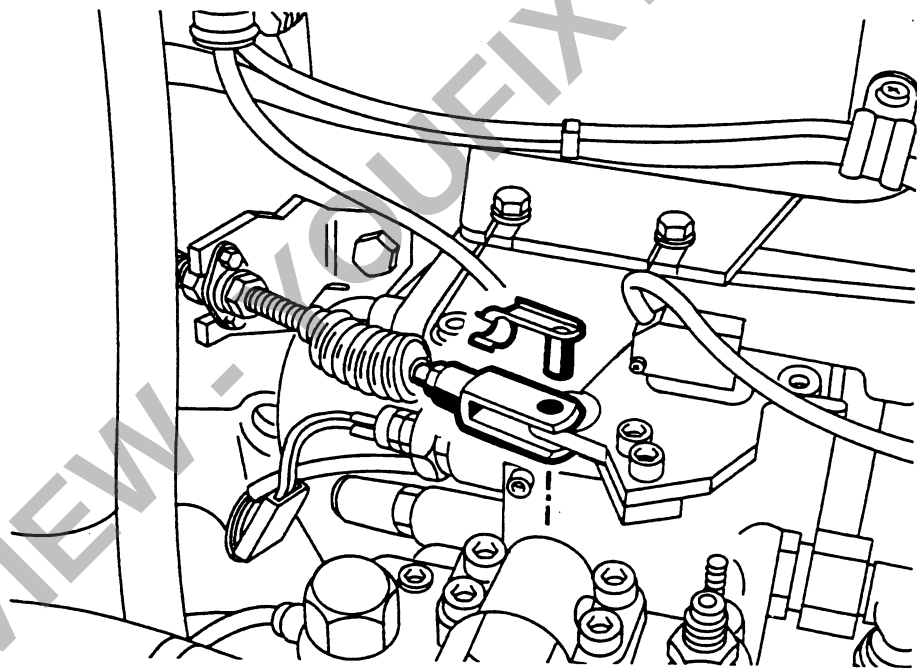


Fig. 1

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Maintenance table

Maintenance work	Comment	10 oper. hours	50 oper. hours	250 op. hours	500 op. hours	1000 op. hours	2000 op. hours	as required
Check the engine oil level	Dipstick mark	X	X	X	X	X	X	
Check the fuel level		X	X	X	X	X	X	
Check the hydraulic oil level		X	X	X	X	X	X	
Check the water level	Summer: water Winter: anti-freeze	X	X	X	X	X	X	
Check the emulsion level (BW 161 AC)		X	X	X	X	X	X	
Lunbricate the articulated joint			X	X	X	X	X	
Check the condition of the battery, grease the poles			X	X	X	X	X	
Grease hinges on doors, windows and flaps	High pressure grease			X	X	X	X	
Check the generator V-belt for condition and tension, replace if necessary				X	X	X	X	
Clean the cooling fins, engine oil and hydraulic oil cooler				X	X	X	X	
Check the condition of the cooling fan V-belt, replace if necessary. Check the function of the V-belt warning system.				X	X	X	X	
Check the oil level in the vibrator shaft tube				X	X	X	X	
Check / adjust the valve clearance	When engine is cold				X	X	X	
Change the engine oil (at least 1 x year)	Dipstick mark				X	X	X	
Change the engine oil filter cartridge					X	X	X	
Drain the fuel tank sludge					X	X	X	
Clean the fuel pump strainer						X	X	
Change the fuel filter cartridge, bleed the fuel system						X	X	
Check the fastening elements on the engine						X	X	
Check the cylinder head monitoring system						X	X	
Change the hydraulic oil	min. every 2 years						X	

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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
A01	010	2	Intervallschalter Berieselungssystem	Interval switch, sprinkler system	
A02	014	2	Blinkrelais	Indicator relay	
A05	045	2	Elektronik Geschwindigkeitsanzeige	Electronic system, speedometer	
A05	203	9	Elektronik Geschwindigkeitsanzeige	Electronic system, speedometer	
A06	045	5	Elektronik Frequenzanzeige vorne	Electronic system, frequency meter, fr.	
A07	045	8	Elektronik Frequenzanzeige hinten	Electronic system, frequency meter, rear	
A08	011	2	Elektronik Omegameter	Electronic system, Omegameter	
A09	010	9	Intervallsch. Emulsionsberieselungssys.	Interval switch, emulsion sprinkler sys.	
A09	203	2	Intervallsch. Emulsionsberieselungssys.	Interval switch, emulsion sprinkler sys.	
A12	015	9	Radio	Radio	
A15	201	5	Platine Ueberwachungsmodul	Printed circuit board, monitoring module	
A15	208	6	Platine Ueberwachungsmodul	Printed circuit board, monitoring module	
A16	011	5	Elektronik Tachograph	Electronic system, tachograph	
A16	204	3	Elektronik Tachograph	Electronic system, tachograph	
A19	002	8	Platine Oeldifferenzanzeige	Printed circuit, oil difference gauge	
A19	003	8	Platine Oeldifferenzanzeige	Printed circuit, oil difference gauge	
A19	005	8	Platine Oeldifferenzanzeige	Printed circuit, oil difference gauge	
A19	007	6	Platine Oeldifferenzanzeige	Printed circuit, oil difference gauge	
A19	202	8	Platine Oeldifferenzanzeige	Printed circuit, oil difference gauge	
A19	206	7	Platine Oeldifferenzanzeige	Printed circuit, oil difference gauge	
A20	010	6	Platine Wasserstandskontrolle	Printed circuit, water level controll	
A20	203	4	Platine Wasserstandskontrolle	Printed circuit, water level controll	
A38	025	2	Platine Zeitverzoegerung	Circuit board, time delay	
A40	025	5	Verstaerkerplatine	Printed circuit, amplifier	
A50	025	5	Platine Speed-Control	Printed circuit board,speed-control	
A51	011	5	Platine Frequenzanzeige	Circuit board,frequenzy meter	
A51	204	8	Platine Frequenzanzeige	Circuit board,frequenzy meter	
A15/K01	005	4	Relais K01 auf Ueberwachungsmodul	Relay K01, Circuit board, monitoring m.	SDS
A15/K01	208	8	Relais K01 auf Ueberwachungsmodul	Relay K01, Circuit board, monitoring m.	SDS
A15/K02	002	6	Relais K02 auf Ueberwachungsmodul	Relay K02, Circuit board, monitoring m.	SDS
A15/K02	208	10	Relais K02 auf Ueberwachungsmodul	Relay K02, Circuit board, monitoring m.	SDS
A15/K03	003	8	Relais K03 auf Ueberwachungsmodul	Relay K03, Circuit board, monitoring m.	SDS
A15/K03	208	2	Relais K03 auf Ueberwachungsmodul	Relay K03, Circuit board, monitoring m.	SDS
A19/F1	206	6	Sicherung Leiterbahn	Fuse, printed circuit board	1 Amp
A19/F2	206	7	Sicherung Leiterbahn	Fuse, printed circuit board	0,2 Amp

1	2	3	4	5	6	7	8	9	10

BOMAG
BOMAG GMBH BOPPARD

Gez.: 7.12. 0
Name: Kneip

Gepr.: -----
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Bauteilliste
component listing

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

Inhaltsverzeichnis: table of contents: BW 161 AD/AC-2, BW 164 AD/AC-2, BW 202 AD/ADH-2

Blatt Nr.: sheet no.:	Zeichnungsnummer drawing - no.	Funktionsgruppe	function unit
001	641 112 21	Stromlaufplan	circuit diagram
002	990 109 31	Versorgung	supply
003	990 109 32	Starten	starting unit
004	990 106 28	Überwachung	monitoring unit
005	990 109 33	Störmeldeplatine	printed circuit board, failure indication
006	990 109 34	Bremse	brake
007	990 109 35	Vibration	vibration
008	990 109 36	Warneinrichtungen	warning equipment
010	990 109 37	Berieselung	sprinkler system
011	990 109 38	Verdichtungskontrolle	monitoring of compaction
013	990 109 39	Arbeitsbeleuchtung StVZO	working head lights (road traffic)
014	990 109 40	Blinkbegrenzung	illumination
015	990 109 41	Kabine	cab
016	990 109 42	Heizung, Klimaanlage	heating, air conditioning
017	990 109 43	Kantenschneidgerät	edge cutter
024	990 109 44	Hundegang	crab walk
025	990 106 69	Speed Control	speed control
031	990 106 70	Splittstreuer	chip spreader
035	990 107 26	Fahrantrieb	travel system
045	990 109 45	Frequenz-/Geschwindigkeitsanzeige	frequency-and speedometer
101	990 109 46	Bauteilliste	component listing
201	990 109 47	Kontrollmodul	monitoring unit

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BOMAG BOMAG GMBH BOPPARD	Gez.: 03.12.1999 Name: Kneip Gepr.: 03.12.1999 Name: Nallin	Stromlaufplan circuit diagram	Seite: 001 von: 001 page: 001 from: 001 Ers.f.: 641 112 20 Replaces: 641 112 20	641 112 21 Blatt Nr.: 001 sheet no.: 001

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General

BW 161 AD and BW 202 AD are tandem vibratory rollers for compaction tasks in road construction. The machine is suitable for both the compaction of bituminous material (road surface layers) and for light compaction work in earthn construction (road bases). Compaction is achieved by the vibration of the drums.

W 161 AC is a combination of rubber tires (front) and vibrating drum (rear). The compaction work is accomplished by the static pressure of the rubber tires and the vibration of the rear drum.

To avoid dirt and bitumen sticking to the drums, the machines are equipped with a pressure sprinkler system. For emergency situations this system is backed up by a gravity feed sprinkler system.

Front and rear frames of the machine are joined together by an oscillating articulated joint.

With the crabwalk cylinder the frames with the drums can be offset to each other for 170 mm to either side. This is of particular advantage when working with the machine in tight curves along the kerb stones.

The machines BW 161 AC are fitted with an emergency brake release system. After operating the emergency brake release valve the brakes can be released by turning the steering wheel in clockwise direction.On the AD-machines this feature is not required. On these machines the brakes in tha travel motors are accessibel from the outside and can be released with a simple brake releasing jig. The emergency brake releasing function is of importance, because it allows to open the brakes in case of a major fault (engine failure, too low charge pressure) and to tow the machine.

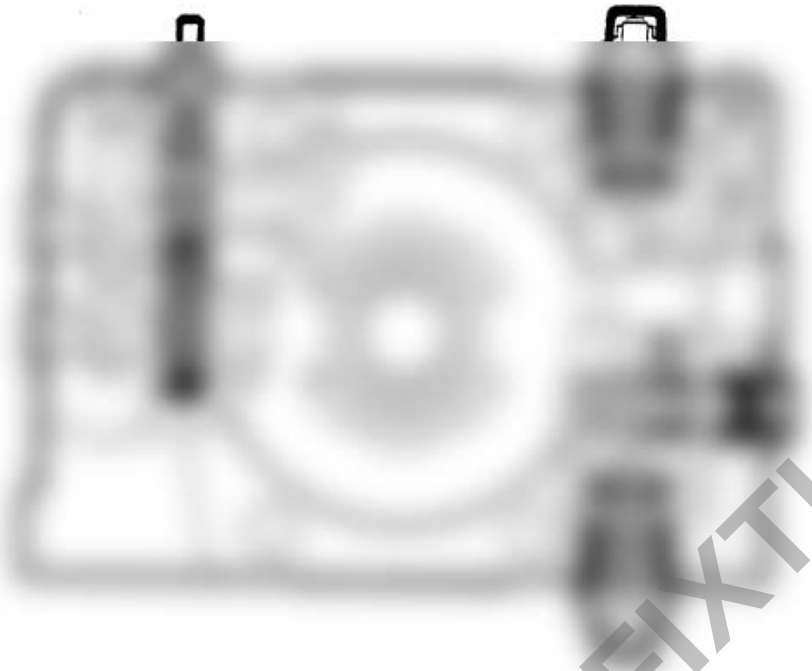
The BW 161 AC is equipped with an pressurized emulsion sprinkler system for the front rubber tires. The front water tank is used for the emulsion.

Both travel control lever (left and right) are mechanically linked and perform identical movements. Actuation of the travel lever is only possible on the side occupied by the driver. Changing the seat position while driving is possible.

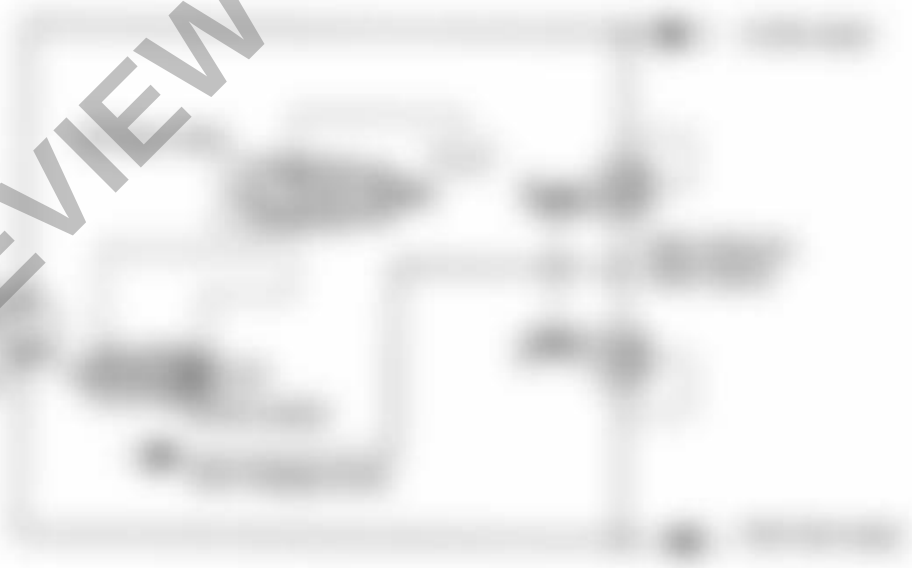
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High pressure relief valves



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If the steering pressure is correct check the charge pressure relief valve.

- Unscrew the plug.
- Take the valve element out.
- Check the valve for signs of damage.

Change the charge pressure relief valve if it is damaged.

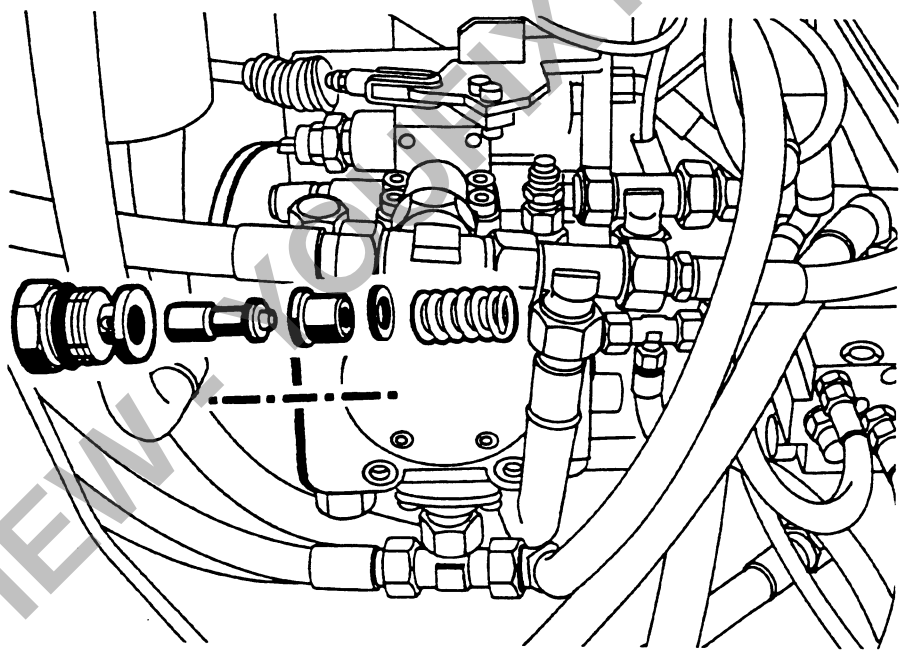


Fig. 19

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If the pilot pressure is not correct, check the swash time nozzles.

- Unscrew the nozzles from X1 and X2.
- Check and clean the nozzles

If the nozzles are o.k. replace the vibration pump and have it repaired.

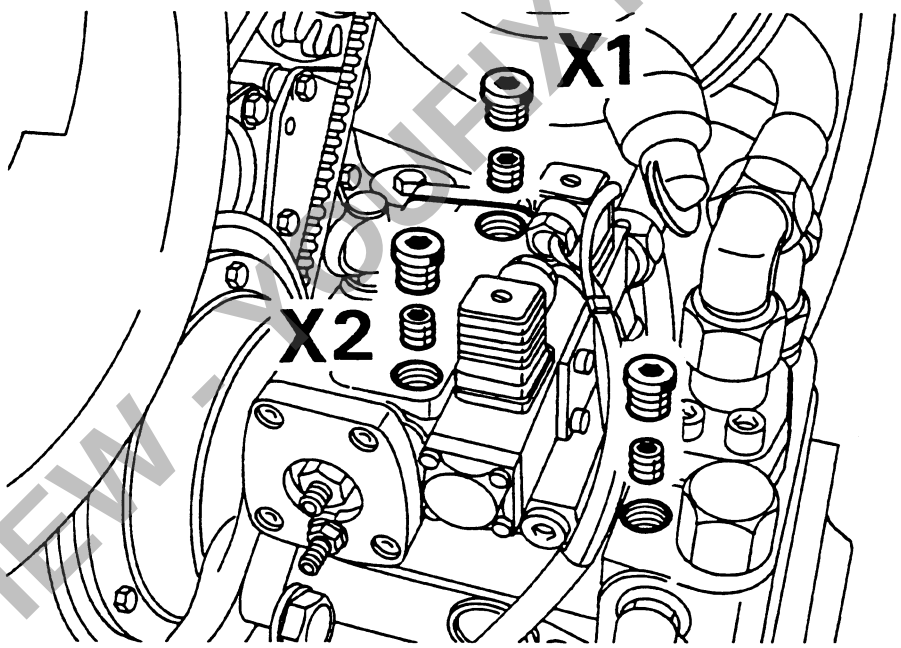


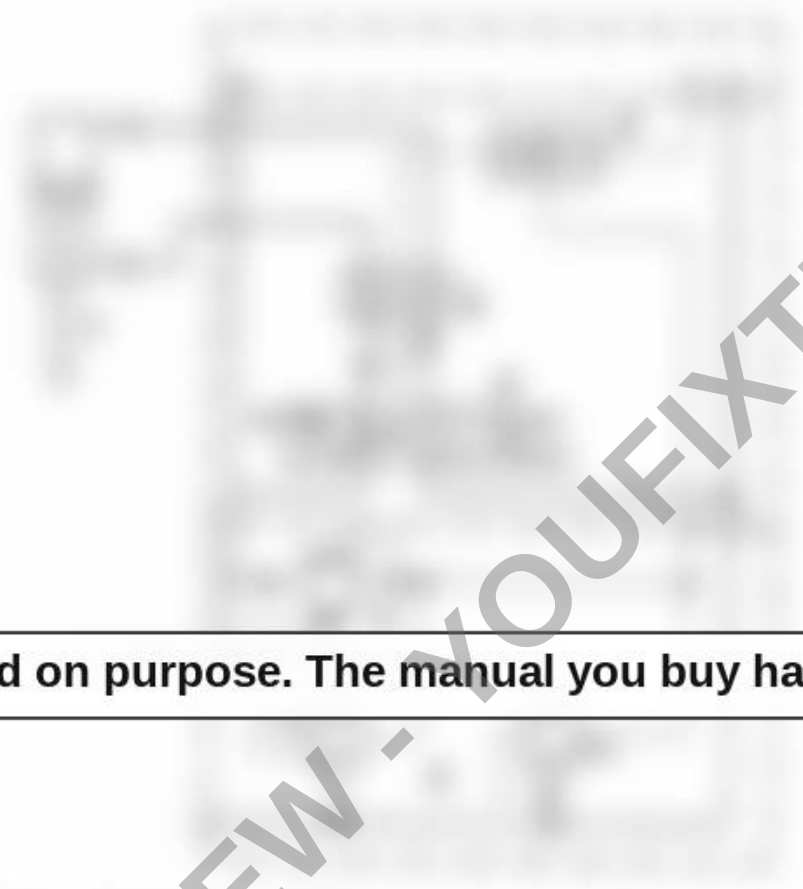
Fig. 3

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Crabwalk

With the crabwalk facility the front frame can be offset to the rear frame by 170 mm to either side. This is of particular advantage when driving with the machine in tight bends close to the kerb stone.



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Name	Bl.	Pf.	Benennung	title	TYP
B03	005	10	Unterdruckschalter Luftfilter	Vacuum switch, air cleaner	
B04	005	5	Druckschalter Speisedruck	Pressure switch, charge pressure	
B06	005	4	Druckschalter Motoroel	Pressure switch, engine oil	
B07	005	3	Temperaturschalter Zylinderkopf	Temperature switch, cylinder head	
B08	003	9	Naeherungsinitiator Fahrhebel '0'-Stell.	Proximity switch, travel lever '0' pos.	
B09	010	7	Druckschalter Berieselungssystem	Pressure switch, sprinkler system	
B10	024	2	Naeherungsinitiator Knickgelenk	Proximity switch, articulated joint	
B11	008	5	Signalhorn	Warning horn	50W
B15	045	2	Aufnehmer Geschwindigkeit	Transducer, speed	
B16	045	6	Aufnehmer Vibrationsfrequenz vorne	Transducer, vibration frequency, front	
B17	045	9	Aufnehmer Vibrationsfrequenz hinten	Transducer, vibration frequency, rear	
B18	011	3	Aufnehmer Omegameter	Transducer, Omegameter	
B21	005	8	Differenzdruckschalter Hydr.-Oelfilter	Pressure diff. switch, hydr. oil filter	
B33	010	7	Sensor Wassertankrestmenge	Sensor, water tank residual quantity	
B34	010	6	Sensor Wassertankrestmenge	Sensor, water tank residual quantity	
B35	007	6	Naeherungsinitiator Vibrationsautomatik	Proximity switch, vibration autom.	
B36	006	10	Druckschalter vorwaerts	Pressure switch, forward	
B51	015	9	Lautsprecher Radio	Speaker radio	
B51	015	10	Lautsprecher Radio	Speaker radio	
C02	206	3	Kondensator	Condenser	1_mF
D10	206	2	LED gruen	LED green	
D20	206	8	LED gruen	LED green	
D30	206	3	LED gruen	LED green	
D60	206	6	LED rot	LED red	
D61	207	6	LED rot	LED red	
D62	207	9	LED rot	LED red	
D63	207	2	LED rot	LED red	
D64	207	9	LED rot	LED red	
D65	206	7	LED rot	LED red	
D66	206	5	LED rot	LED red	
D67	206	5	LED rot	LED red	
E01	004	8	Beleuchtung Tankanzeige	Illumination, level gauge	2 Watt
E02	004	7	Beleuchtung Temperaturanzeige	Illumination, temperature gauge	2 Watt

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