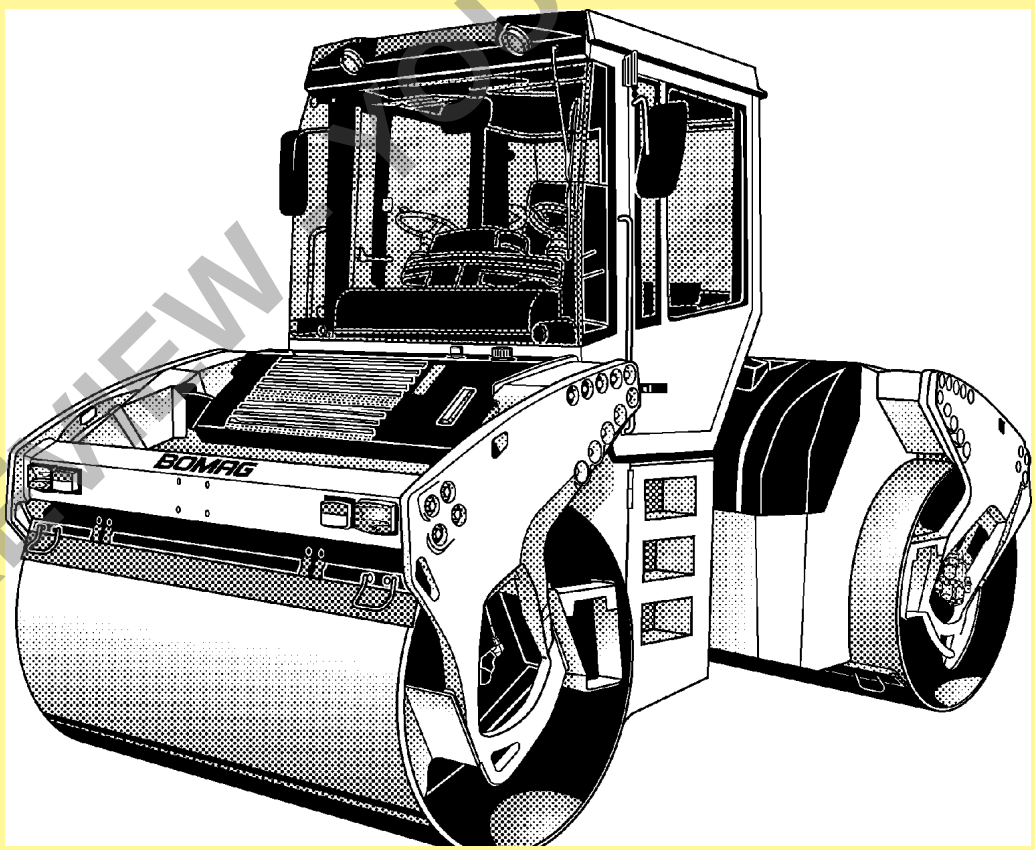
BOMAG

Service - Manual

BW 141 AD-4 / BW 151 AD-4

BW 151 AC-4 / BW 161 ADCV

S/N 101 920 00 ....
S/N 101 920 01 ....
S/N 101 920 10 ....



Tandem Vibratory Roller

Catalogue number.
008 910 92

01/2008

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2.1 General notes on maintenance

When servicing the machine pay careful attention to all applicable safety instructions.

Thorough maintenance of the machine ensures maximum reliability and prolongs the lifetime of important components. The necessary effort can by no means be compared with the faults which may occur when not observing these instructions.

The terms left/right are always related to travel direction forward.

- Clean machine and engine thoroughly before starting maintenance work.
- For maintenance work park the machine on level ground.
- Maintenance work must generally be carried out with the engine shut down.
- Depressurize hydraulic lines before working on them.
- Disconnect the battery and cover it with insulation material before starting to work on electrical components.
- Always attach the articulation lock (transport lock) before starting to work in the articulation area of the machine.

Environment

During maintenance work catch all oils and fuels and do not let them seep into the ground or into the sewage system. Dispose of oils and fuel environmentally.

Store used filters in a special waste container and dispose of environmentally.

Always catch biodegradable oil separately.

Notes on the fuel system

The lifetime of the diesel engine is decisively depending on the cleanliness of the fuel.

- Keep the engine free of dirt and water as this could damage the injection elements of the engine.
- When choosing the storage location for fuel make sure that spilled fuel will not harm the environment.
- Do not let the suction hose disturb the sludge on the bottom of the drum.
- Fuel left in the fuel drum is not suitable for the engine and should only be used for cleaning purposes.

Notes on the engine performance

Combustion air and fuel injection rates of the diesel engine have been carefully adjusted and determine the engine's performance and temperature level as well as the quality of the exhaust gas.

If your machine has to work permanently in "thin air" (at high altitudes) and with full load you should consult or service department or the service department of the engine manufacturer.

Notes on the hydraulic system

When servicing the hydraulic system cleanliness if of utmost importance. make sure that no dirt or other contaminating systems can enter the system. Small particles can flute valves, cause pumps to seize and block restrictors and pilot bores, thereby causing costly repairs.

- If during the daily oil level check the oil level is found to have dropped, check all lines, hoses and components for leakages.
- Seal leakages immediately. If necessary inform the responsible service department.
- Always use the filling and filtering unit (BOMAG part-no. 007 610 01) to fill the hydraulic system. This unit is equipped with a fine filter which cleans the hydraulic oil and prolongs the lifetime of the filter.
- Clean fittings, filler caps and their immediate surrounding area before removing them, so that no dirt can fall in.
- Do not leave the tank opening unnecessarily open, cover it so that no dirt can fall in.

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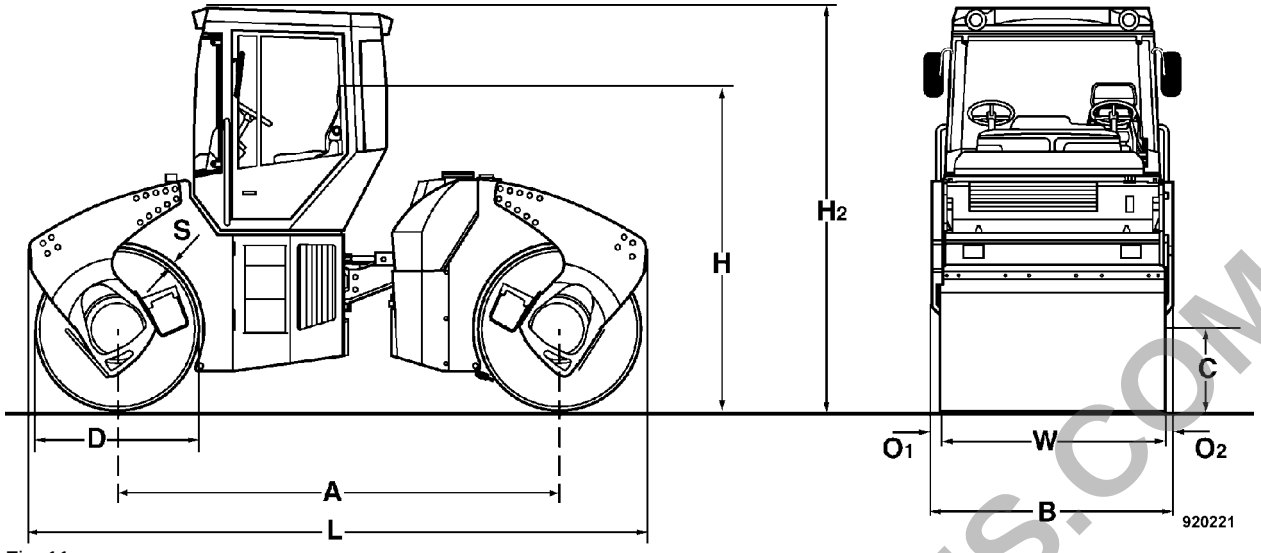


Fig. 11

Dimensions in mm	A	B	C	D	H	H2	K	L	O	W
BW 141 AD-4	3300	1660	710	1220	2320	3000	400	4520	80	1500
BW 151 AD-4	3300	1660	715	1220	2320	3000	400	4520	80	1680

1		**BW 141 AD-4**	**BW 151 AD-4**
Weights			
Operating weight (CECE)	kg	7500	7900
Operating weight (CECE) with ROPS-cabin	kg	8000	8300
Front axle load (CECE)	kg	3700	3900
Rear axle load (CECE)	kg	3800	4000
Static linear load front (CECE)	kg/cm	24,7	23
Static linear load rear (CECE)	kg/cm	25,3	24
Dimensions			
Oscillation angle	+/-°	6	6
Inner track radius	mm	4490	4400
Travel characteristics			
Travel speed (1)	km/h	0-10,5	0-10,5
Max. gradability without/with vibration (soil dependent)	%	40/35	40/35
Drive			
Engine manufacturer		Deutz	Deutz
Type		BF4M 2011	BF4M 2011
Cooling		Oil	Oil
Number of cylinders		4	4
Rated power ISO 9249	kW (PS)	60	60
Rated speed	rpm	2500	2500
Electrical equipment	V	12	12
Battery	V/AH	12/100	12/100
Drive system		hydrost.	hydrost.
Driven drum		front + rear	front + rear

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1 Port T1, leak oil to port T2 on vibration pump
2 Pressure test port M_B high pressure
3 Port T
4 High pressure port B, to the travel motors
5 not used
6 High pressure port A, to the travel motors
7 Adjustment screw, high frequency
8 not used
9 Port T1 to tank
10 High pressure port B, to vibration shut-off valve
11 High pressure port A, to vibration shut-off valve
12 Pressure test port M_B high pressure
13 Magnetic coil Y57, low frequency
14 High pressure relief valve, vibration
15 Magnetic coil Y56, high frequency
16 Pressure test port X2, travel pump
17 Pressure test port X1, travel pump
18 Pressure test port R, vibration pump case pressure
19 High pressure relief valve, travel drive
20 not used
21 Pressure test port X2, travel pump
22 Adjustment screw, hydraulic neutral position
23 Pressure test port R, travel pump case pressure
24 Pressure test port X1, travel pump
25 not used
26 Pressure test port X4, control chamber pressure, travel pump
27 Pressure override valve, vibration pump
28 Pressure cut-off valve, travel pump
29 Pressure test port M_A high pressure
30 Port T2, leak oil to tank
31 High pressure relief valve, travel drive
32 Adjustment screw for mechanical neutral position of travel pump
33 Pressure test port X3, control chamber pressure, travel pump
34 Charge pressure relief valve, travel pump
35 Port G, charge pressure
36 Adjustment screw for low frequency
37 Port T2, leak oil from port T1 on travel pump
38 High pressure relief valve, vibration
39 Charge pressure relief valve, blocked
40 Charge pressure test port, travel and vibration pump
41 High pressure test port, low frequency
42 Distributor block, travel system

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5.1 Special tools, tests and adjustments

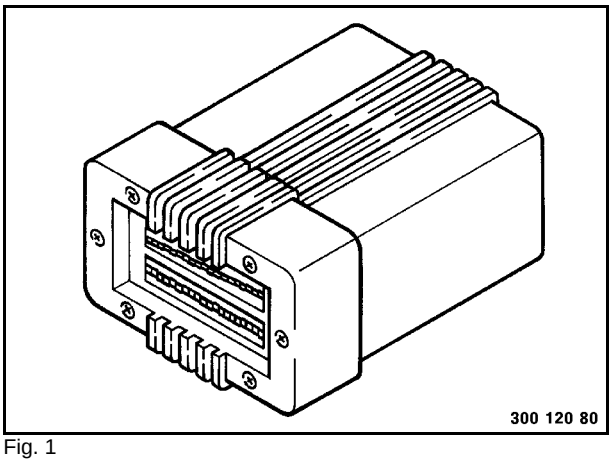


Fig. 1

1. Vibration reed frequency meter

   1000 - 4000 rpm

   17 - 67 Hz

   BOMAG part-no.: 300 120 80


Fig. 2

2. Sirometer (frequency meter)

   800 - 50.000 rpm

   14 - 750 Hz

   BOMAG part-no.: 059 710 02



Fig. 3

3. Anti-freeze tester, quick and accurate measuring, sturdy plastic housing, automatic temperature correction, no after-dripping, instructions for use on unit, reading down to -40 °C. Material: Plastic, Temperature range: down to -40 °C

   BOMAG part-no.: 050 100 75

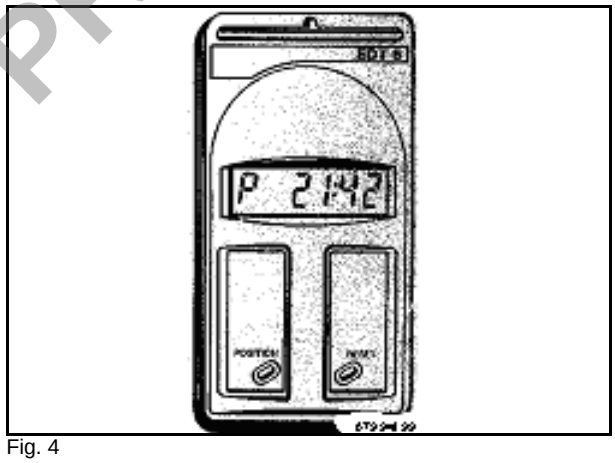


Fig. 4

4. Digital rpm-meter for petrol engines

   BOMAG part-no.: 079 948 99

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6.1 Special tools for flushing

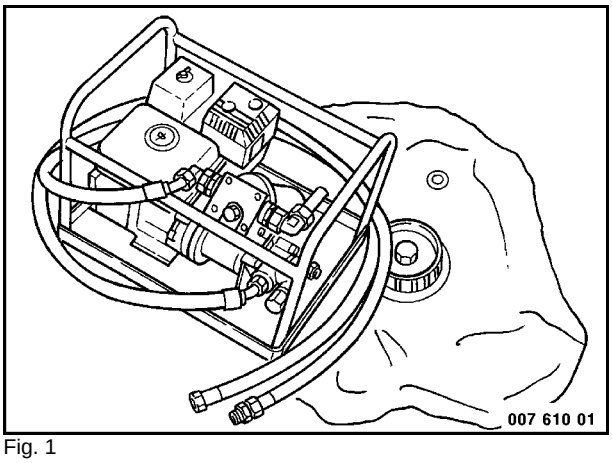


Fig. 1

1. Filling and filtering unit with oil bag

   BOMAG part-no.: 007 610 01
2. Filter element

   BOMAG part-no.: 079 930 35

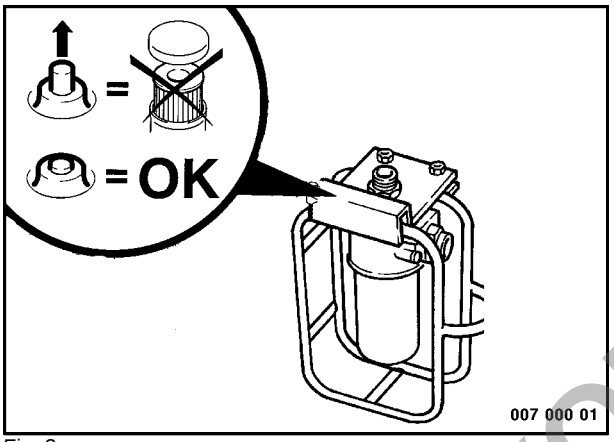


Fig. 2

3. Flushing filter (S connection)

   BOMAG part-no.: 007 000 01
4. Filter element 1µ

   BOMAG part-no.: 079 930 52
5. Flushing hose 20S - 25S (2 pieces)

   BOMAG part-no.: 055 509 19
6. Screw socket R1“ - 25S (2 pieces)

   BOMAG part-no.: 055 400 52

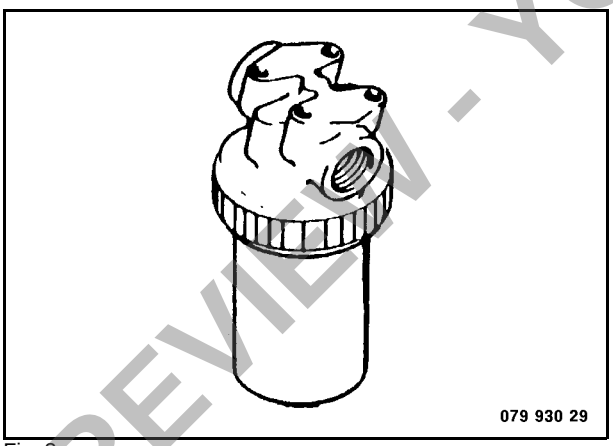


Fig. 3

7. Flushing filter (L connection)

   BOMAG part-no.: 079 390 29
8. Filter element

   BOMAG part-no.: 079 390 14
9. Flushing hose 15L (2 pieces)

   BOMAG part-no.: 055 510 09
10. Screw socket R3/4“ -- 15L (2 pieces)

    BOMAG part-no.: 055 400 89

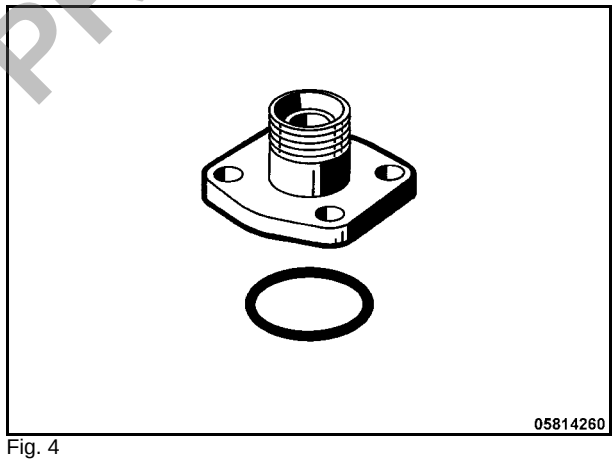


Fig. 4

11. SAE-flange 1“ - 20S

    BOMAG part-no.: 058 142 60
12. O-ring

    BOMAG part-no. 062 203 30

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Function groups

On the individual pages the electric circuits are combined to function groups.

Arrangement of current paths

The individual current paths must be read as follows:

- From top (plus potential) to bottom (minus potential).
- From left to right.
- From function group to function group.
- Via cross references for potentials and relays.

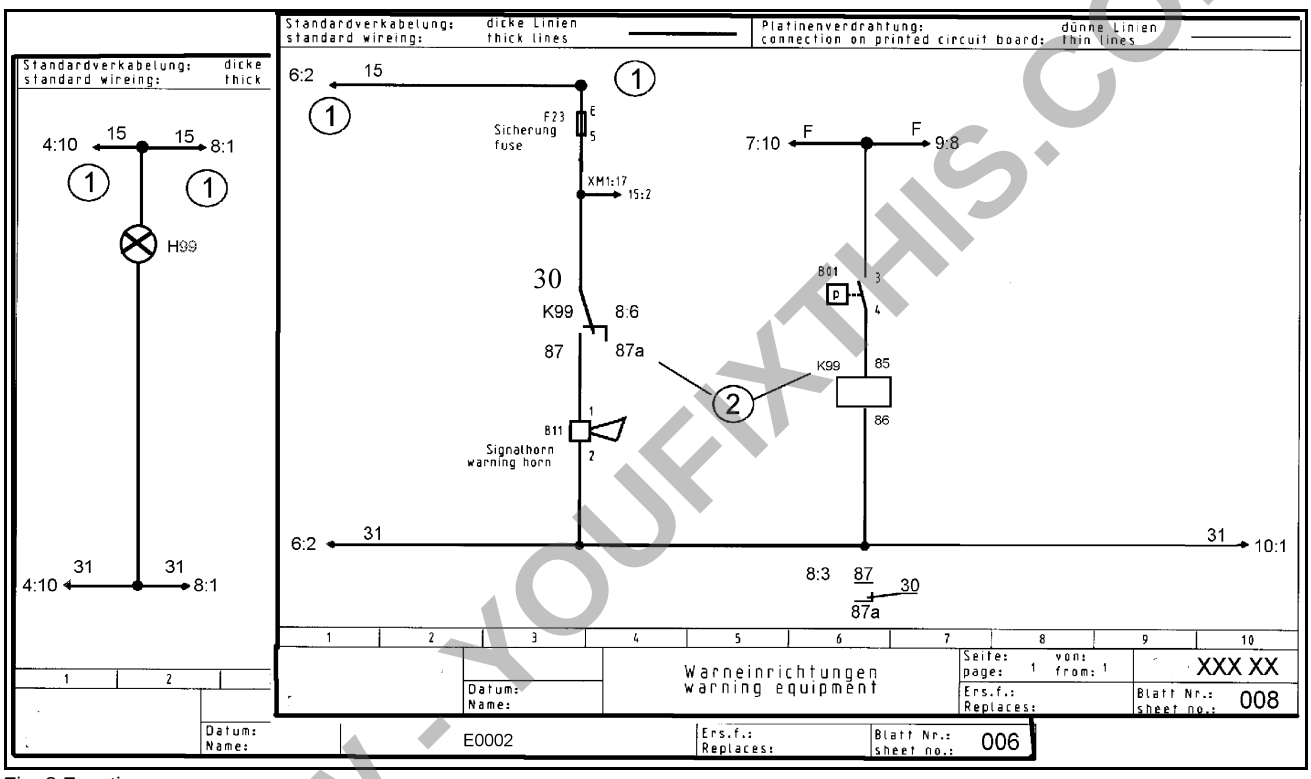


Fig. 8 Function groups

Potential cross references

Potential cross references serve the purpose of tracking signals, which are transmitted from one function group to another.

Example:

Potential "15" on page no. 6 is continued to the left on page no. 4 in current path "10" and to the right on page no. 8 in current path "1".

Relay cross reference

Relay cross references serve the tracking of signals, which need to be tracked for components with outgoing contacts.

A mimic diagram with information about the contact types of a relay and their positions in the wiring diagram is additionally attached to the bottom of each contactor coil.

Example:

The coil of relay (K99) is located on page no. 8 in current path "6".

The mimic diagram under the relay informs that a change-over switch with contact types 30, 87 and 87a is triggered.

The changeover contact can be found on page no. 8 in current path "3".

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8.1 Special tools, electrics

Measuring equipment

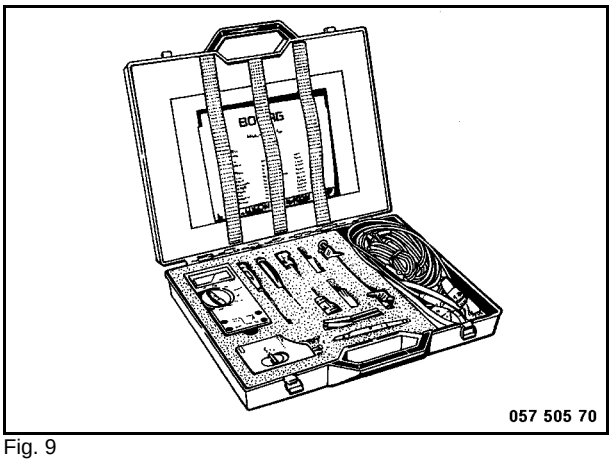


Fig. 9

15. Electric test case

    BOMAG part-no.: 057 505 70

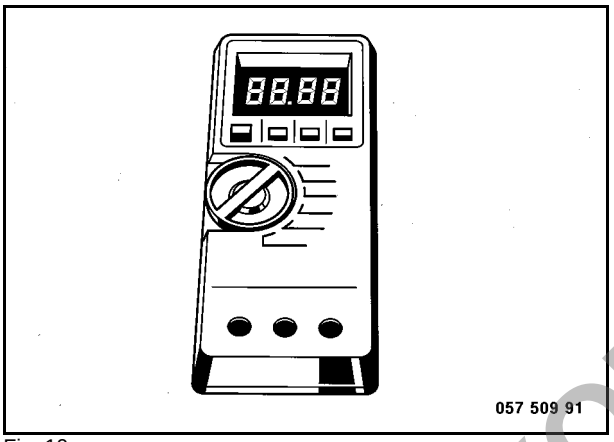
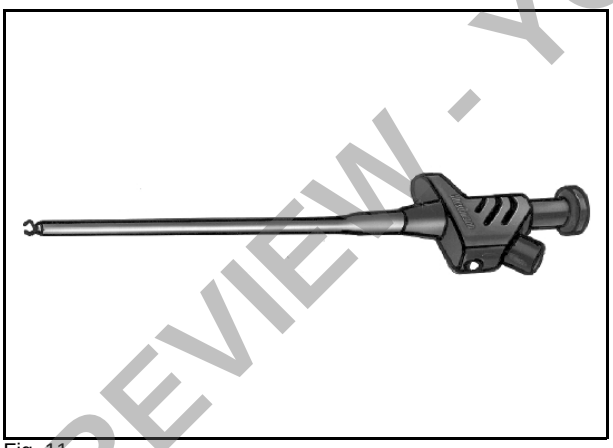


Fig. 10

16. Multimeter

    BOMAG part-no.: 057 509 91

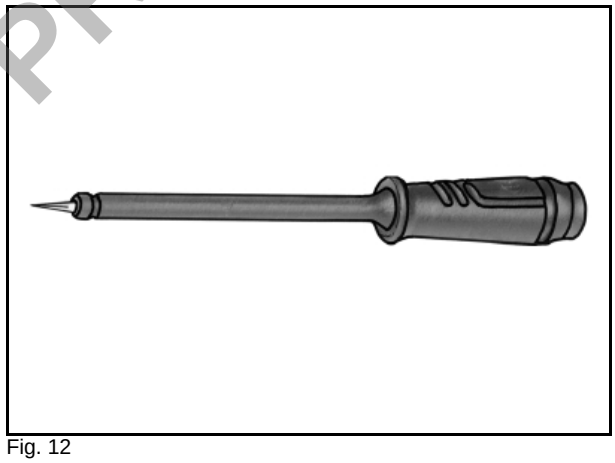

Fig. 11

17. Test prod black, with flexible insulated shaft and button operated gripper with 4 mm bushing, length 157 mm.

    BOMAG part-no.: 079 900 53

18. Test prod red, with flexible insulated shaft and button operated gripper with 4 mm bushing, length 157 mm.

    BOMAG part-no.: 079 900 54


Fig. 12

19. Test prod black, with elastic insulated shaft 4 mm bushing, length 97.5 mm.

    BOMAG part-no.: 079 900 51

20. Test prod red, with elastic insulated shaft 4 mm bushing, length 97.5 mm.

    BOMAG part-no.: 079 900 52

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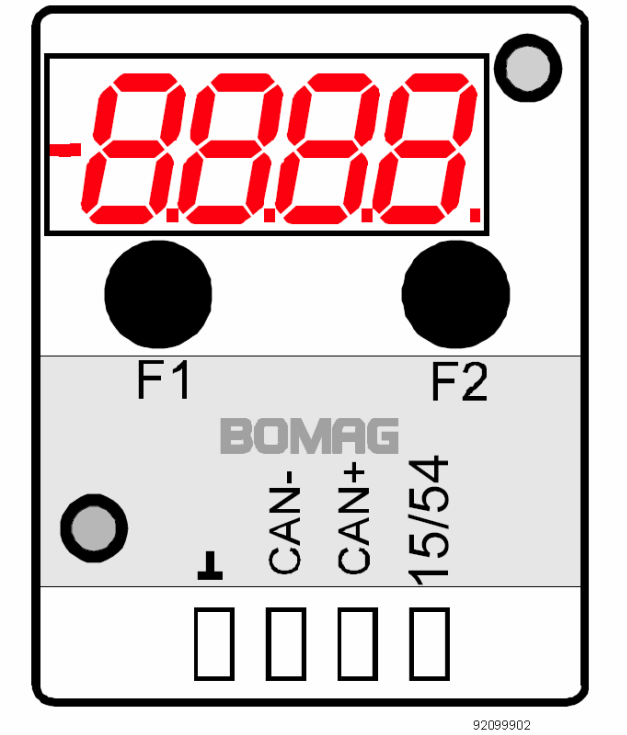


Bild 44

i Hinweis

The documentation "Service Training Electrics BAM (BOMAG Asphalt Manager)" contains also the documentation BEM (BOMAG Evib-meter).

The BOP (BOMAG Operation Panel) is only installed in connection with BAM machines, BEM-machines are equipped with display module. The display module is used for the output of fault codes and display values, as well as for the input of code numbers.

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10.1 Speedometer module

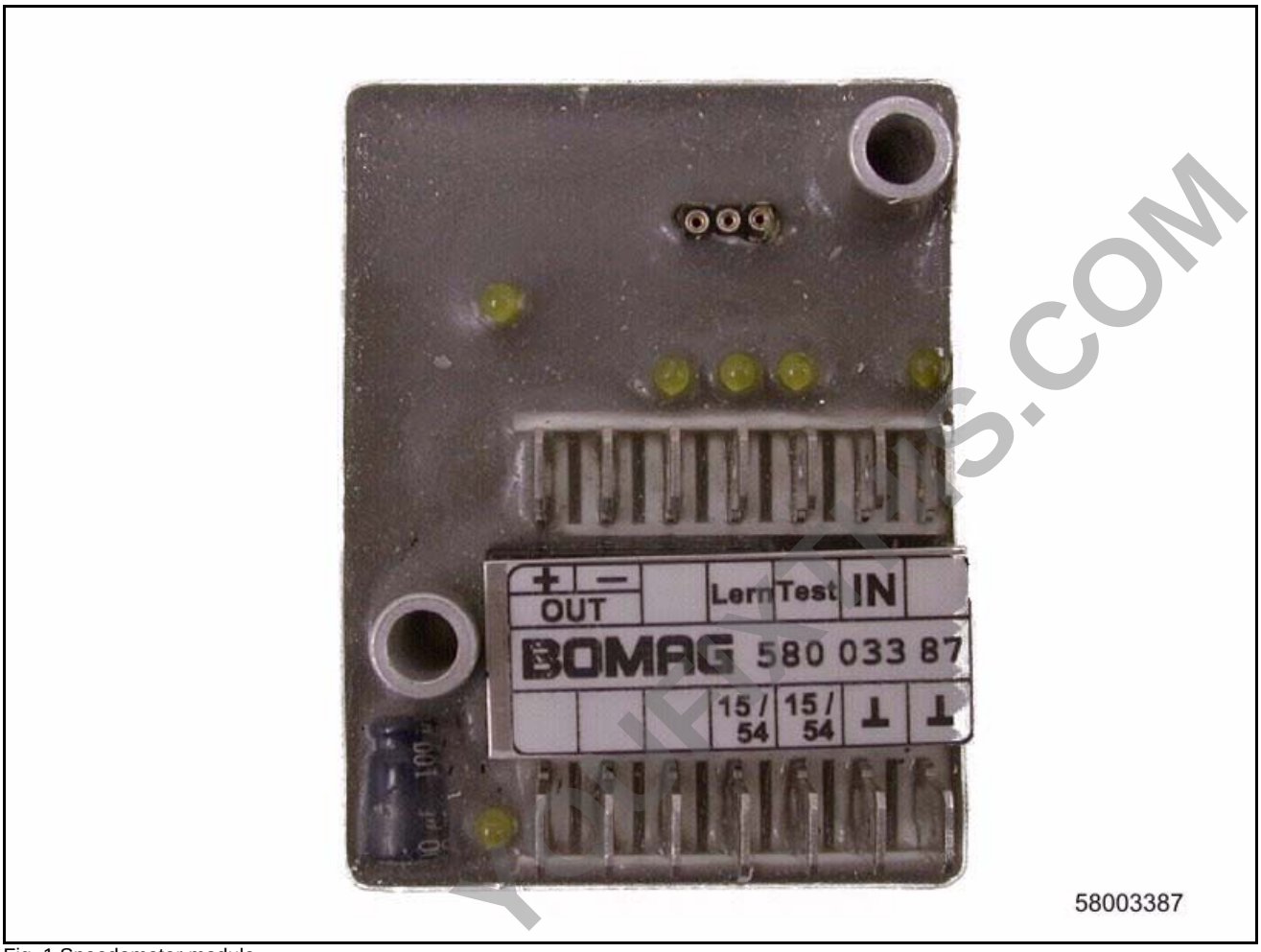


Fig. 1 Speedometer module

Description of function

With the programmable module BM UPM the software realizes a speedometer function. To ensure that the tachometer function is not only realized for one special roller, there is a possibility to adapt the module to any machine with the help of a self-teaching mode.

- Whenever the module is switched on the system runs a self-test by passing through the entire display range in both directions. The display self-test takes approx. 15 seconds.
- After this the module changes to measuring mode. The frequency of the travel pulses of the roller is detected and converted to a proportional output voltage that triggers the display.
- The output signal for the display is a PWM-signal.

Manual testing of the speedometer

When the module is in learning mode a manual display test can be performed via the input "Test". For this purpose the input "IN" must be energized with 12 Volt, whereupon the speedometer is constantly triggered with 3 Volt.

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Service Training



Tandem Rollers

BW 141 - 151 AD/AC-4

BW 154 AD/AC-4

Part-No. 008 097 16 06/2005

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12.1 General information on diesel engine

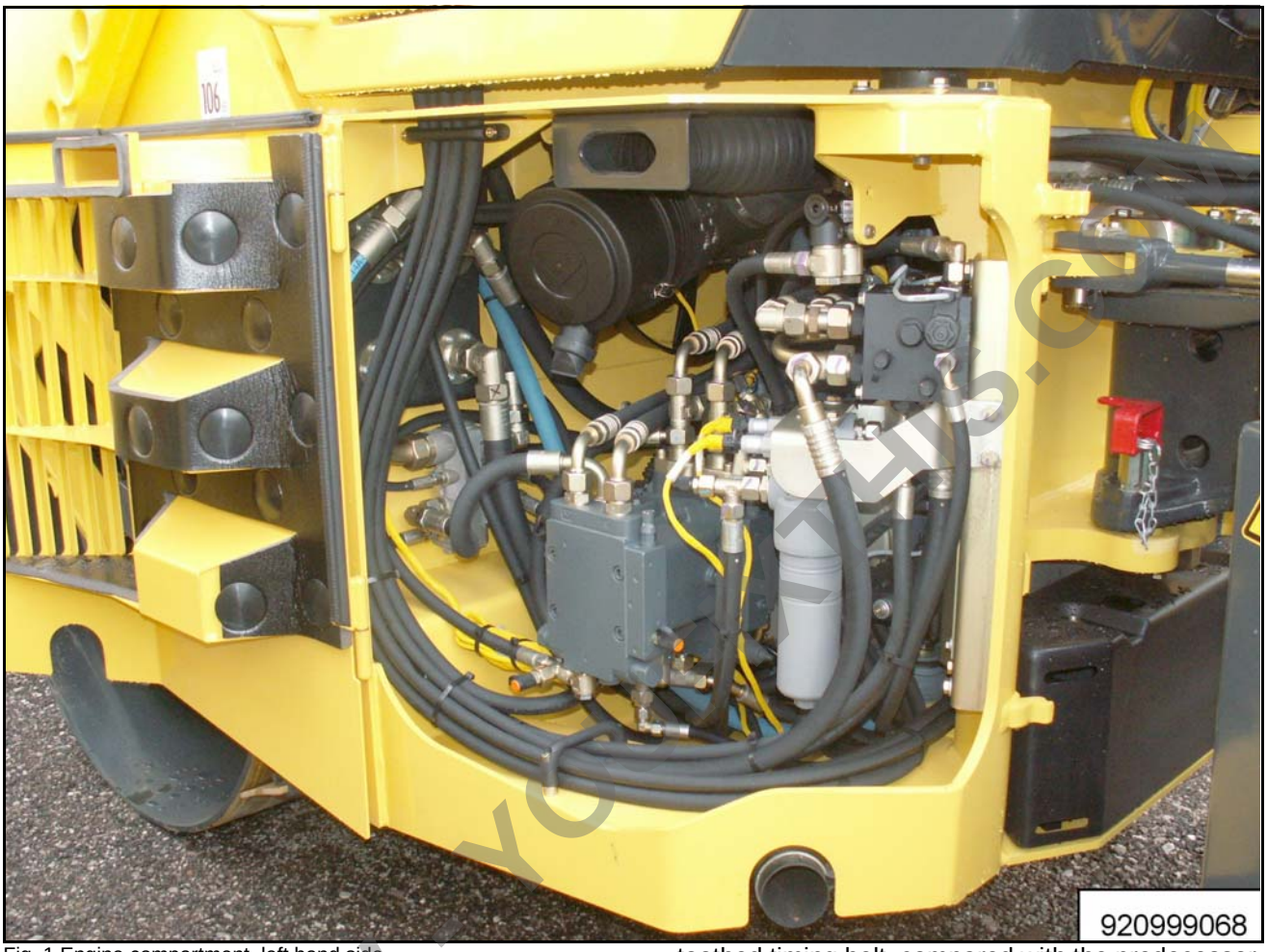


Fig. 1 Engine compartment, left hand side

Tandem rollers series BW141/154 AD/AC-4 are powered by a Deutz diesel engine series BF4M 2011.

The engines are characterized by the following positive features:

In contrast to the 1011/2011 engines already used by BOMAG this engine is fitted with an external oil cooling system, i.e. a separate oil cooler with hydraulically driven fan, instead of the established integrated oil cooler/fan system.

The engine is characterized by the following positive features:

- short and compact design
- low noise level
- low vibration operation
- low fuel consumption
- low exhaust emissions
- excellent access to all service locations.
- due to the automatic tensioning device and an improved enclosure for the belt drive, extended maintenance interval (5000 operating hours) for the toothed timing belt, compared with the predecessor 1011 F.

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13.1 Physical basics

In order to understand the working principle of an air conditioning system one must first become familiar with the physical basics of such a system.

The four well known physical conditions of water apply also for the refrigerant in the air conditioning system.

1. gaseous (invisible)

2. vaporous

3. liquid

4. solid

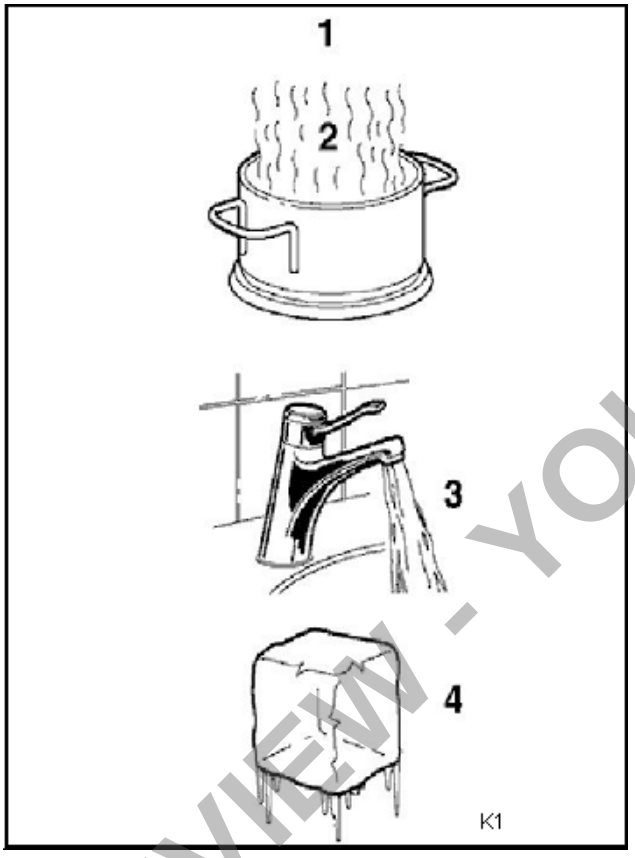


Fig. 1

If the water in a container is heated up (absorption of heat), the rising steam is visible. If the steam is heated up further, due to the absorption of heat, the visible steam will turn into invisible gas. This process is reversible. When withdrawing the heat contained in gaseous water, the gas will turn into steam, then into water and finally into ice.

A - heat absorption

B- Heat dissipation

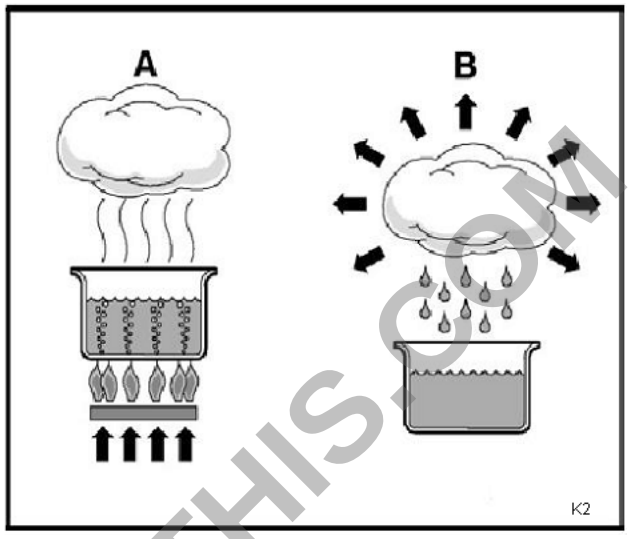


Fig. 2

Heat always flows from the warmer to the colder matter. Any matter consists of a mass of moving molecules. The rapidly moving molecules or a warmer matter dissipate part of their energy to the slower moving molecules with less heat. The movement of the molecules in the warmer matter becomes slower and the molecules in the cooler matter are accelerated. This process continued, until all molecules in the two matters move with identical speed. The matters have then reached an identical temperature and the transfer of heat stops.

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14.2 Special tools

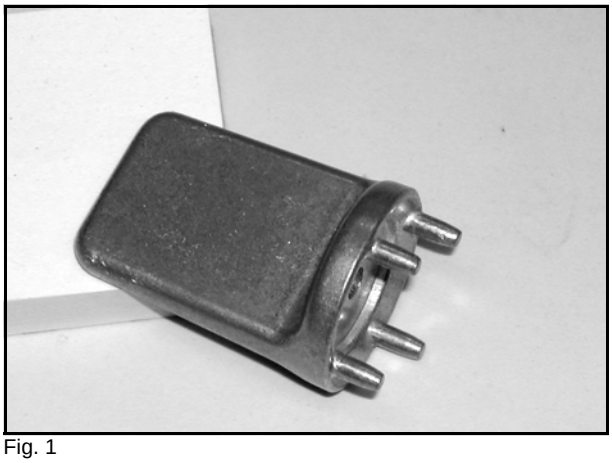


Fig. 1

1. Locking handle for fastening element

   BOMAG part-no.: 055 705 84

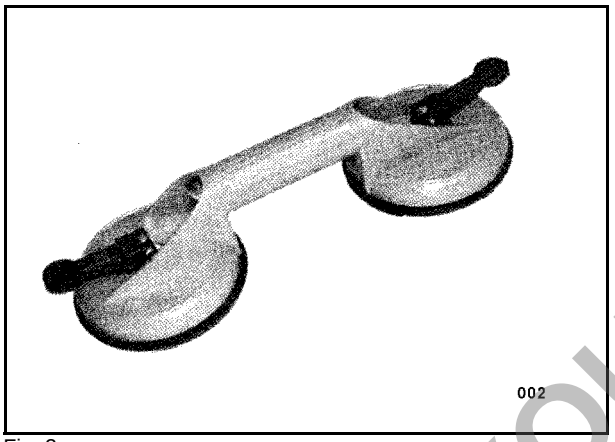


Fig. 2

2. Suction lifter

   commercial

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16.1 Replacing the travel control cable

Removing the driver's seat

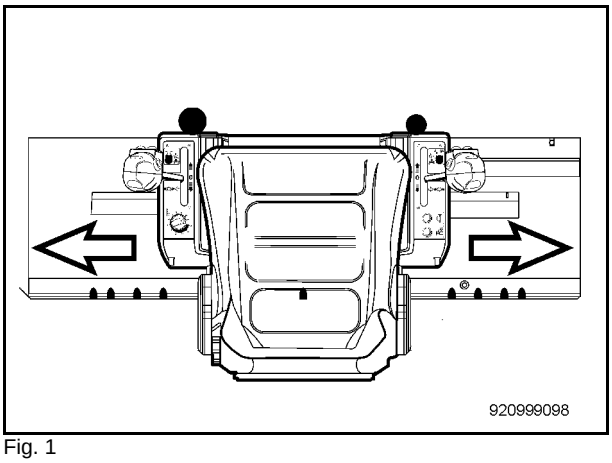


Fig. 1

1. Slide the driver's seat (Fig. 1) to middle position.

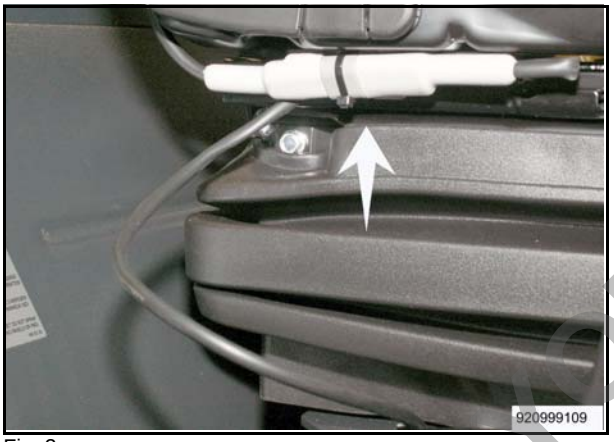


Fig. 2

2. Unplug the wiring loom (Fig. 2).



Fig. 3

3. Unscrew all fastening screws and lift off the driver's seat (Fig. 3).

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17.1 Special tools, drum (BW 141/151-4)

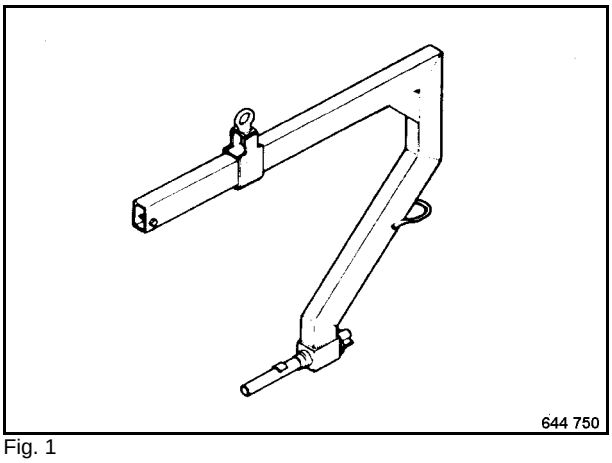


Fig. 1

1. Lifting device for vibrator unit

   BOMAG part-no. 007 215 08



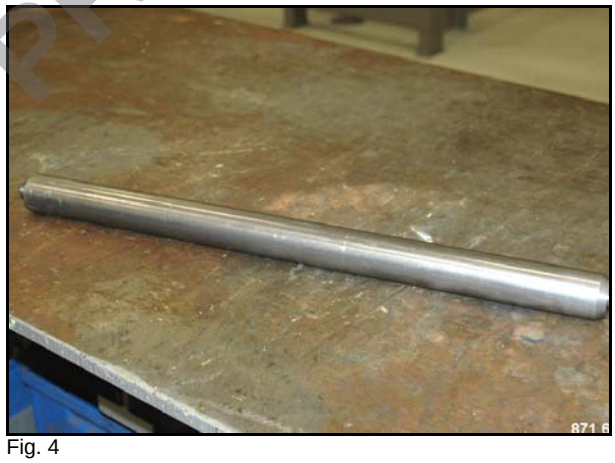
Fig. 2

2. Guide bolts M16 x 270



Fig. 3

3. Guide bolts M12 x 270


Fig. 4

4. Screw bolt for vibrator unit lifting device

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18.1 Repair overview oscillating articulated joint

1) Zur Montageerleichterung Fügeflächen
mit Gleitlack OKS 571 00970026
eingesetzt - ohne Fett

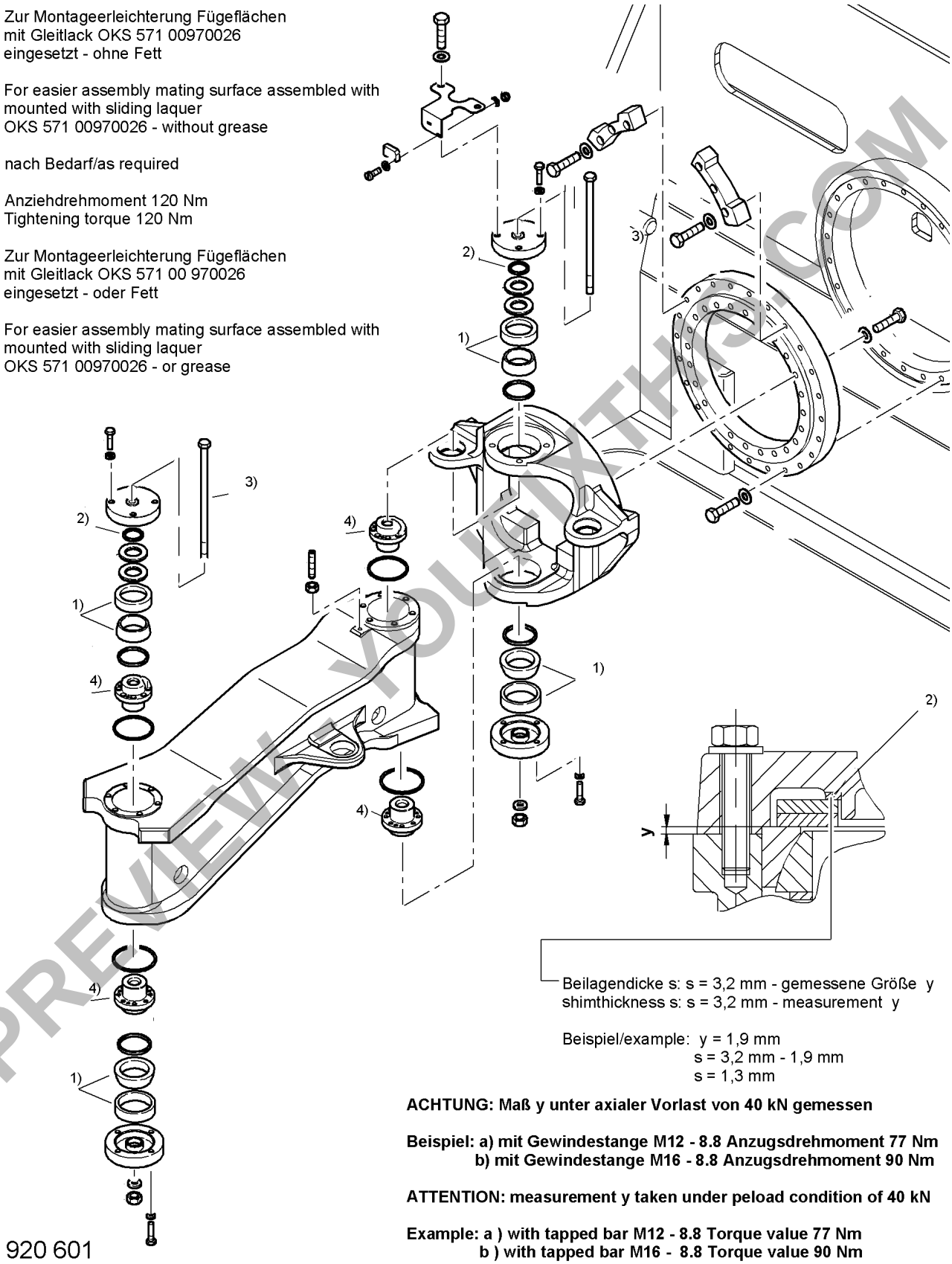
For easier assembly mating surface assembled with
mounted with sliding laquer
OKS 571 00970026 - without grease

2) nach Bedarf/as required

3) Anziehdrehmoment 120 Nm
Tightening torque 120 Nm

4) Zur Montageerleichterung Fügeflächen
mit Gleitlack OKS 571 00 970026
eingesetzt - oder Fett

For easier assembly mating surface assembled with
mounted with sliding laquer
OKS 571 00970026 - or grease



920 601

Beilagendicke s: s = 3,2 mm - gemessene Größe y
shimthickness s: s = 3,2 mm - measurement y

Beispiel/example: y = 1,9 mm
s = 3,2 mm - 1,9 mm
s = 1,3 mm

ACHTUNG: Maß y unter axialer Vorlast von 40 kN gemessen

Beispiel: a) mit Gewindestange M12 - 8.8 Anzugsdrehmoment 77 Nm
b) mit Gewindestange M16 - 8.8 Anzugsdrehmoment 90 Nm

ATTENTION: measurement y taken under peload condition of 40 kN

Example: a) with tapped bar M12 - 8.8 Torque value 77 Nm
b) with tapped bar M16 - 8.8 Torque value 90 Nm

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1) = mit Loctite 243 eingesetzt
mounted with Loctite 243

2) = Anzugdrehmoment M =49 Nm
Torque M = 49 Nm

3) = Anzugdrehmoment M = 65 - 70 Nm
Torque M = 65 - 70 Nm

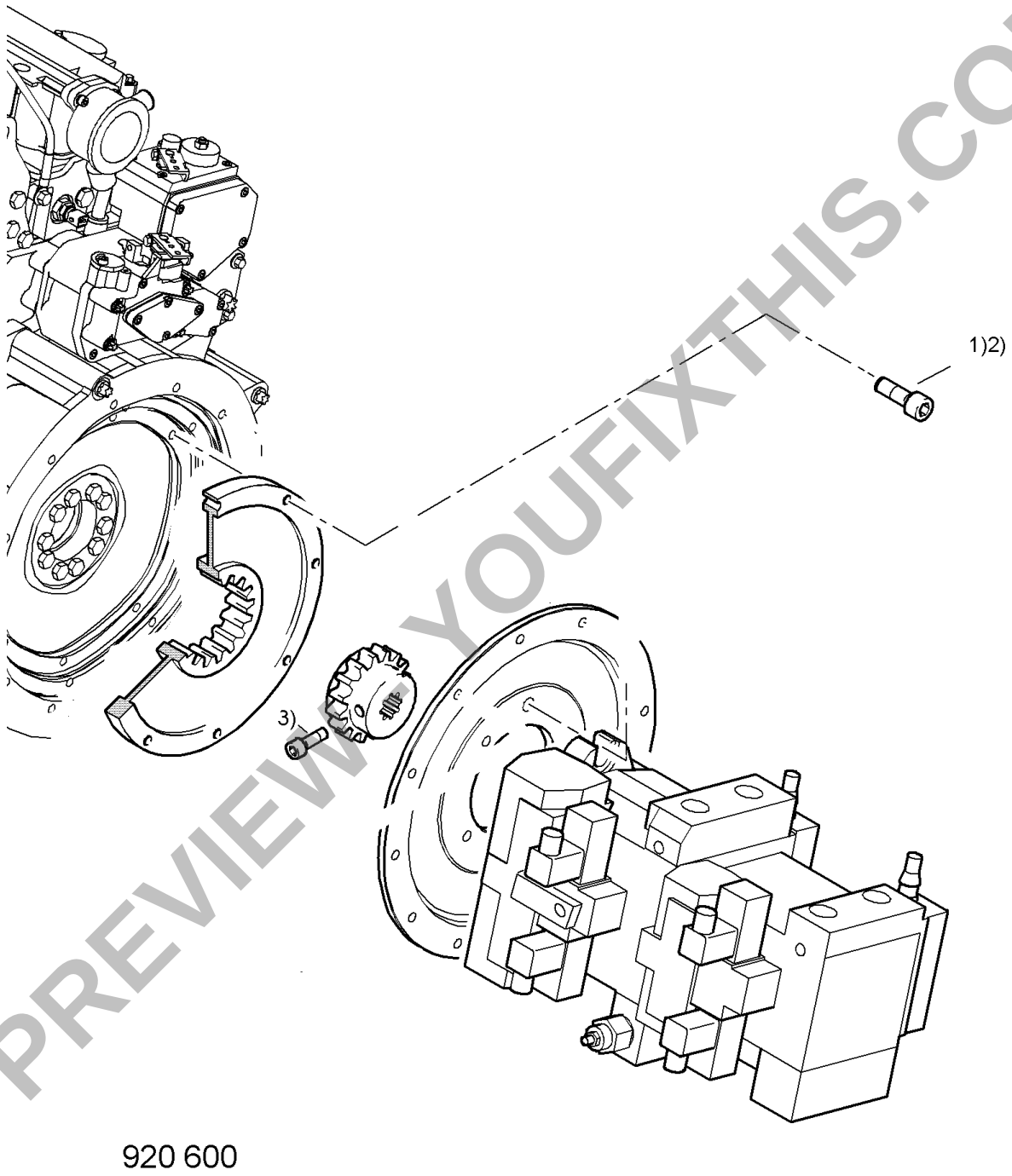


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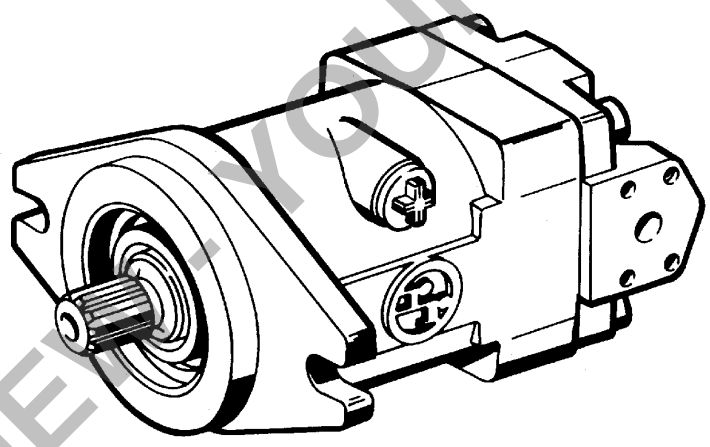
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BOMAG

Instructions for repair

A4FM22/31W - A4FM28/31W



A4FM 001

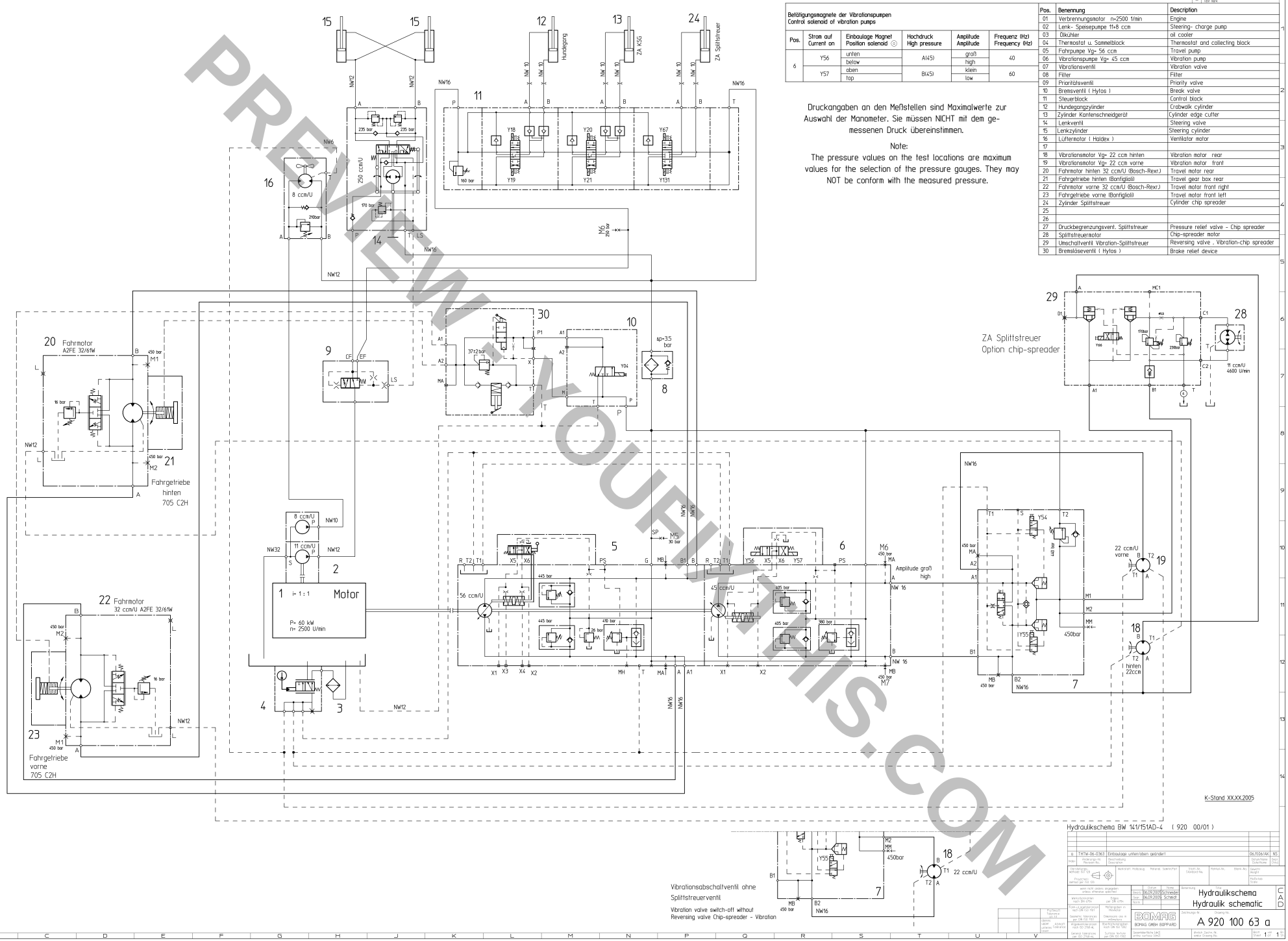
Vibration motor

008 196 64 03/1997

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22.4 Monitoring module A15, old design

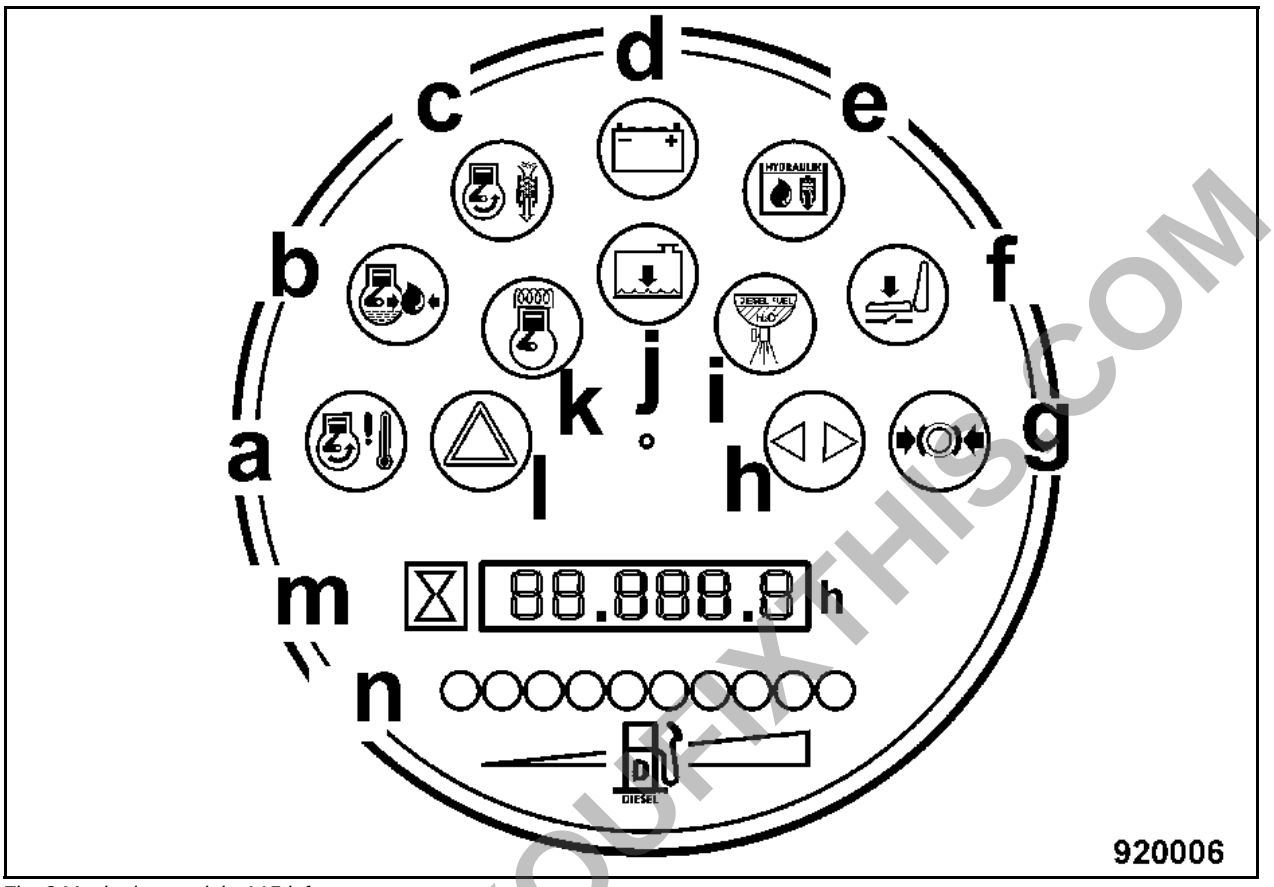


Fig. 2 Monitoring module A15 left

Pos.	Designation in circuit diagram	Designation in circuit diagram
a	H49	Control light, overheating of engine
b	H09	Engine oil pressure control light
c	H15	Control light for engine air filter
d	H08	Charge control light
e	H23	Hydraulic oil filter control light
f	H20	Control light, seat contact switch
g	H01	Brake control light
h	H05	Indicator control light
i	H70	Control light, water in diesel filter
j	H73	Control light, coolant provision
k	H52	Control light, preheating monitoring
l	H06	Hazard light control light
m	P00	Operating hour meter
n	P01	Fuel gauge

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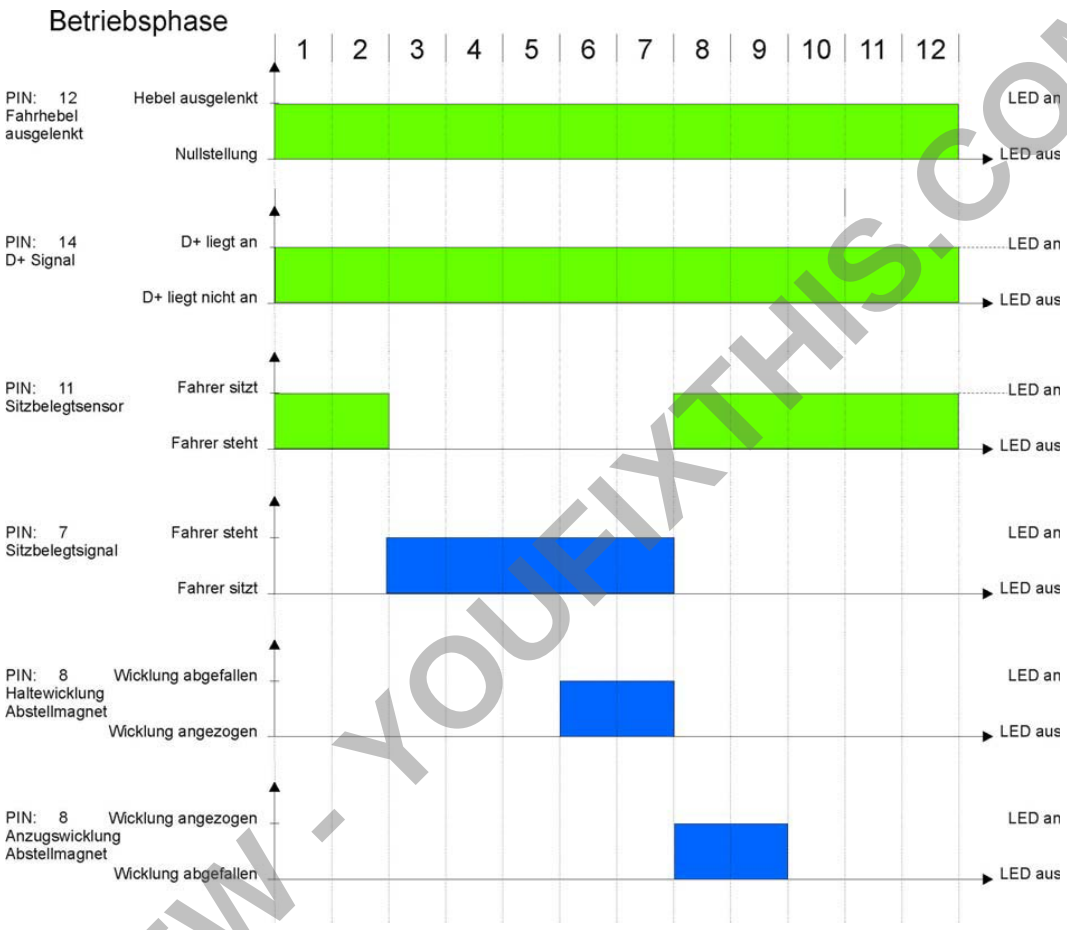


Figure 5: Standing up while driving

If the engine stops before the driver has sat down (D+ switches off, LED on PIN 14 goes out), the brake will be closed (LED on PIN 5 is off, LED on PIN 6 lights). This condition remains, even if the driver sits down.

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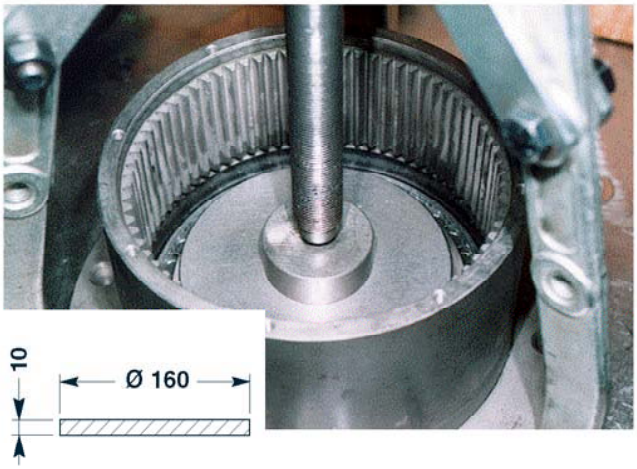
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t °C	p bar	ρ´ kg/dm^3	ρ´´ kg/m^3	v´ dm^3/kg	v´´ dm^3/kg	h´ kJ/kg	h´´ kJ/kg	r kJ/kg
-3	2,62	1,305	13,08	0,766	76,44	195,96	394,80	198,84
-2	2,72	1,302	13,56	0,768	73,77	197,30	395,38	198,08
-1	2,82	1,299	14,04	0,770	71,20	198,65	395,96	197,31
0	2,93	1,296	14,55	0,772	68,75	200,00	396,53	196,53
1	3,04	1,292	15,06	0,774	66,39	201,35	397,10	195,75
2	3,15	1,289	15,59	0,776	64,13	202,71	397,68	194,97
3	3,26	1,286	16,14	0,778	61,96	204,07	398,24	194,18
4	3,38	1,282	16,70	0,780	59,88	205,43	398,81	193,38
5	3,50	1,279	17,27	0,782	57,89	206,79	399,38	192,58
6	3,62	1,276	17,87	0,784	55,97	208,16	399,94	191,78
7	3,75	1,272	18,47	0,786	54,13	209,53	400,50	190,97
8	3,88	1,269	19,10	0,788	52,36	210,90	401,06	190,16
9	4,01	1,265	19,74	0,790	50,66	212,28	401,62	189,34
10	4,15	1,262	20,40	0,792	49,03	213,66	402,17	188,51
11	4,29	1,259	21,07	0,795	47,45	215,04	402,72	187,68
12	4,43	1,255	21,77	0,797	45,94	216,42	403,27	186,85
13	4,58	1,252	22,48	0,799	44,49	217,81	403,82	186,01
14	4,73	1,248	23,21	0,801	43,08	219,20	404,36	185,17
15	4,89	1,245	23,96	0,804	41,74	220,59	404,91	184,32
16	5,04	1,241	24,73	0,806	40,44	221,99	405,45	183,46
17	5,21	1,237	25,52	0,808	39,19	223,38	405,98	182,60
18	5,37	1,234	26,33	0,811	37,98	224,78	406,52	181,73
19	5,54	1,230	27,16	0,813	36,82	226,19	407,05	180,86
20	5,72	1,226	28,01	0,815	35,70	227,60	407,58	179,98
21	5,90	1,223	28,89	0,818	34,62	229,01	408,11	179,10
22	6,08	1,219	29,78	0,820	33,58	230,42	408,63	178,21
23	6,27	1,215	30,70	0,823	32,57	231,83	409,15	177,32
24	6,46	1,212	31,65	0,825	31,60	233,25	409,67	176,41
25	6,66	1,208	32,61	0,828	30,66	234,68	410,18	175,51
26	6,86	1,204	33,60	0,831	29,76	236,10	410,69	174,59
27	7,06	1,200	34,62	0,833	28,88	237,53	411,20	173,67

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4.5. Fasi di smontaggio



26. Capovolgere il corpo riduttore. Servendosi di un estrattore e di un tampone metallico, sfilare il cuscinetto (12) dal corpo riduttore (11).

Informazioni

Lo smontaggio del riduttore termina con quest'ultima operazione: tutti i particolari sono ora a disposizione per le verifiche necessarie.

4.5. *Disassembling Method*

Turn the gearbox housing upside down. By using a puller and a metal stopper, remove the bearing (12) from the gearbox housing (11).

Information

The gearbox disassembly ends with the above operation. All items are now available for the necessary inspections.

4.6. Valutazione dei pezzi da sostituire

I componenti soggetti ad usura sono i seguenti.
- Ingranaggi.
- Cuscinetti.
- Tutte le guarnizioni.

Sostituire i componenti usurati o guasti rispettando le seguenti indicazioni:

1. Rimuovere accuratamente lo sporco, in particolare pulire le sedi delle guarnizioni, dei cuscinetti e degli anelli di bloccaggio.
2. Lubrificare i componenti prima di montarli.
3. In caso di ingranaggi danneggiati, esempio un planetario, non sostituire il singolo ingranaggio ma tutta la riduzione.
4. Sostituire sempre tutte le guarnizioni interessate alla parte da rimontare.
5. Sostituire le parti danneggiate con ricambi originali e rispettando le indicazioni fornite dal costruttore nel paragrafo 4.7.

4.6. *Evaluating that Pieces to Replace*

The pieces that are subject to general wear and tear are the following:
- *Gears.*
- *Bearings.*
- *All the seals.*

Replace the used or irregular parts respecting the following steps:

1. *Accurately remove dirt, and in particular properly clean the seals, bearings and locking rings seating.*
2. *Lubricate the parts before connecting them.*
3. *In the case of damaged gears, for example a planetary, do not proceed to replace the individual gear but the entire reduction assembly.*
4. *When reconnecting a part always replace all the seals involved.*
5. *Replace all the damaged parts with original spare parts and doing so follow all the steps given by the manufacturer in Section 4.7.*

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