1 Hydraulic oil temperature control light
2 Oil pressure control light
3 Oil temperature control light
4 Charge control light
5 Emergency stop push button
6 Brake control light
7 Rotary switch for pressure sprinkler system
8 Interval switch for pressure sprinkler system
9 Rotary switch for lighting (STVZO)*
10 Rotary switch for indicator light, with control light *
11 Rotary switch for hazard light system, with control light *
12 Push button for warning horn
13 Rotary switch for working light
14 Rotary switch for flashing beacon*

* Optional equipment

15 Momentary contact switch for edge cutter*
16 Seat contact control light
17 Throttle lever
18 Locking lever for throttle lever
19 Travel lever / brake
20 Push button for vibration
21 Ball valve, vibration (only AD)
22 Lever for transverse sliding seat adjustment
23 Foot switch for rubber tire sprinkling system (only BW 138 AC) or foot switch for flow divider on AD-machines*
24 Ball valve, brake releasing device (only AC)
25 Fuse box B, bottom
26 Fuse box A, top
27 not used
28 Ignition switch
29 Operating hour meter, in engine compartment

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4.1 General notes

Please read section 3 Indicators and Control Elements thoroughly before operating the machine if you are not yet fully familiar with the indicators and control elements of the machine.

All indicators and control elements are described in detail in this chapter.

4.2 Inspections before starting operation

Before the everyday use or before a longer working period the following tests and inspections must be performed.

⚠ Danger

Please observe strictly the safety regulations in chapter 2 of these operating and maintenance instructions.

- Park the machine on level ground.

Test:

- Check fuel tank and fuel lines for leaks
- Screw connections
- Function of steering
- Function of parking brake
- Machine for damage

i Note

The following inspection work is described in chapter 'Maintenance every 10 Operating Hours'.

- Engine oil level
- Dry air filter service indicator
- Hydraulic oil level
- Fuel level
- Water level in sprinkler system
- Emulsion level
- Tire pressure

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5.1 General notes on maintenance

When performing maintenance work always comply with the appropriate safety regulations.

Thorough maintenance of the machine guarantees higher functional safety of the unit and prolongs the lifetime of important components. The effort needed for this work is only little compared with the problems that may arise when not observing this rule.

The terms right/left correspond with travel direction forward.

- Always clean machine and engine thoroughly before starting maintenance work.
- For maintenance work stand the machine on level ground.
- Perform maintenance work generally with the engine stopped.
- Relieve hydraulic pressures before working on hydraulic lines.
- Before working on electric parts of the machine disconnect the battery and cover it with insulation material.
- When working in the area of the articulated joint attach the articulation lock (transport lock).

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 fuels environmentally.

Notes on the fuel system

The lifetime of the diesel engine depends to a great extent on the cleanliness of the fuel.

- Keep fuel free of contaminants and water, since this will damage the injection elements of the engine.
- Drums with inside zinc lining are not suitable to store fuel.
- The fuel drum must rest for a longer period of time before drawing off fuel.
- Do not let the hose stir up the slurry at the bottom of the drum.
- Do not draw off fuel from near the bottom of the drum.
- The rest in the drum is not suitable for the engine and should only be used for cleaning purposes.

Notes on the engine performance

On diesel engines both combustion air quantity and fuel injection quantity are thoroughly adapted to each other and determine power, temperature level and exhaust gas quality of the engine.

If you engine has to work permanently in "thin air" (at higher altitudes) and under full load, you should consult the customer service of BOMAG or the customer service of the engine manufacturer.

Notes on the hydraulic system

During maintenance work on the hydraulic system cleanliness is of major importance. Make sure that no dirt or other contaminating substances can enter into the system. Small particles can produce flutes in valves, cause pumps to seize, clog nozzles and pilot bores, thereby making expensive repairs inevitable.

- If, during the daily inspection of the oil level, the hydraulic oil level is found to have dropped, check all lines, hoses and components for leaks.
- Seal external leaks immediately. If necessary inform the responsible customer service.
- Do not store drums with hydraulic oil outdoors, or at least under cover. Water can be drawn in through the bunghole when the weather changes.
- Always use the filling and filtering unit (BOMAG part-no. 007 610 01) to fill the hydraulic system. This unit is fitted with a fine filter to clean the hydraulic oil, thereby prolonging the lifetime of the filter.
- Clean fittings, filler covers and the area around such parts before disassembly to avoid entering of dirt.
- Do not leave the tank opening unnecessarily open, but cover it so that nothing can fall in.

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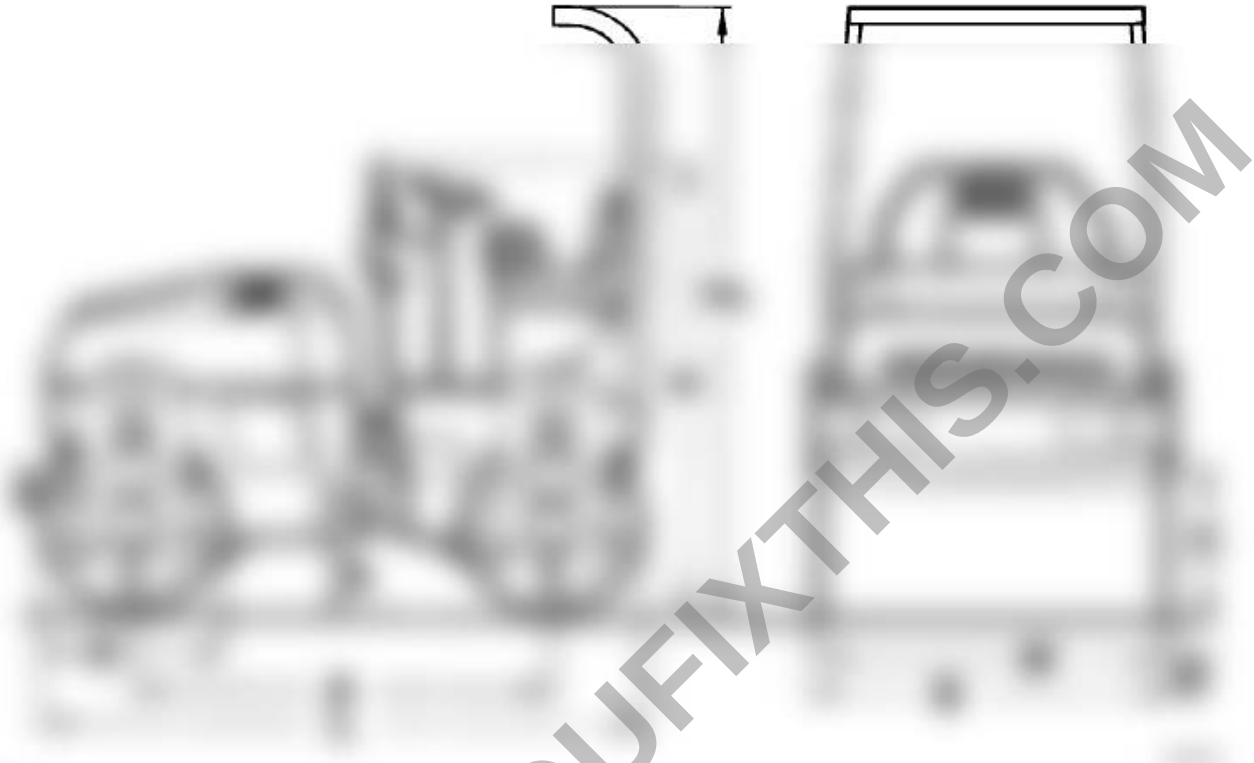
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6.2 Engine problems

Faults	Possible cause	Remedy
Engine does not start	Fuel tank empty	Fill the fuel tank
	Fuel filter clogged, in winter due to paraffin separation	Change the filter, use winter fuel
	Fuel lines leaking	Check the line connections for leaks and tighten the fittings.
	Neutral start switch on travel lever defective or no contact between switch and travel lever.	change, position correctly
	Battery not charged or not connected	Terminal clamps on battery tighten, check line connections
Poor starting of engine or engine works irregularly with poor power	Battery power to low	Have battery checked
	Battery pole clamps loose or oxidized, causing the starter to turn too slow	Clean the pole clamps, tighten and cover them with acid-free grease
	Especially during winter: use of too viscous engine oil	Use an engine oil complying with the ambient temperatures
	Fuel supply restricted, Clogging of fuels system by paraffin separation during winter	Change the engine oil filter cartridge. Check the line connections for leaks and tighten the fittings. Use winter fuel under cold conditions
	Valve clearance not as specified	Adjust the valve clearance
	Injection valves or plug-type injection pump defective	Have inspected by a specialist
	Dry air filter cartridge dirty	clean, replace if necessary
	Excessive play in throttle cable	Adjust the throttle cable, replace if necessary
Excessive exhaust smoke	Engine oil level too high	Drain the engine oil down to the top dipstick mark
	Dry air filter cartridge dirty	clean, replace if necessary
	Poor compression due to burned or broken compression rings or incorrect valve clearance	Have compression rings and pistons examined by a specialist, adjust the valve clearance
	Injection valves defective	Have inspected by a specialist

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General Notes

This BOMAG machine has been built in accordance with the latest technical standard and complies with the applicable regulations and technical rules. However, dangers for persons and property may arise from this machine, if:

- it is used for purposes other than the ones it is intended for
- it is operated by untrained personnel
- it is changed or converted in an unprofessional way
- the safety instructions are not observed

Each person involved in the operation, maintenance and repair of the machine must therefore read and comply with these safety regulations. If necessary, this must be confirmed by obtaining the signature of the customer.

Furthermore, the following instructions and regulations must obviously also be complied with:

- applicable accident prevention instructions
- generally accepted safety and road traffic regulations
- country specific safety regulations. It is the duty of the operator to be acquainted with these instructions and to apply these accordingly. This applies also for local regulations concerning different types of handling work. Should the recommendations in these instructions be different from the regulations valid in your country, you must comply with the safety regulations valid in your country.

Intended use

This machine must only be used for:

- compaction of bituminous material, e.g. road surface layers. (Only AC and AD machines)
- medium to heavy compaction work in earth construction (road sub-bases)
- You should only operate the unit with fully functional safety equipment.
- Have the machine inspected by an expert once every year.

Unintended use

However, dangers may arise from this machine if it is operated by untrained personnel or if it is subject of unintended use.

Do not work with vibration on hard concrete, cured bitumen layers or extremely frozen ground.

Starting and operation of the machine in explosive environments is prohibited.

Who has permission to operate the machine?

Only trained and instructed persons of at least 18 years of age are permitted to drive and operate this machine. For operation of the machine the responsibilities must be clearly specified and complied with.

Persons under the influence of alcohol, medicine or drugs are not allowed to operate, service or repair the machine.

Maintenance and repair work requires specific knowledge and must therefore only be performed by trained specialists.

Conversions and changes to the machine

Unauthorized alterations to the machine are prohibited for safety reasons.

Original parts and accessories have been specially designed for this machine. We wish to make explicitly clear that we have not tested or approved any parts or accessories not supplied by us. The installation and/or use of such products may have an adverse effect on the active and/or passive driving safety. The manufacturer explicitly excludes any liability for damage caused by the use of non-original parts or accessories.

Notes on safety in the operating and maintenance instructions:

⚠ Danger

Paragraphs marked like this highlight possible dangers for persons.

⚠ Caution

Paragraphs marked like this highlight possible dangers for machines or parts of the machine.

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Please fill in

. . . . . .

Machine type (Fig. 1)

. . . . . .

Serial-number (Fig. 1 and 2)

. . . . . .

Engine type (Fig. 3)

. . . . . .

Engine number (Fig. 3)

i Note

Supplement the above data together with the commissioning protocol.

During commissioning our organisation will instruct you in the operation and maintenance of the machine.

Please observe strictly the safety regulations and all notes on risks and dangers!

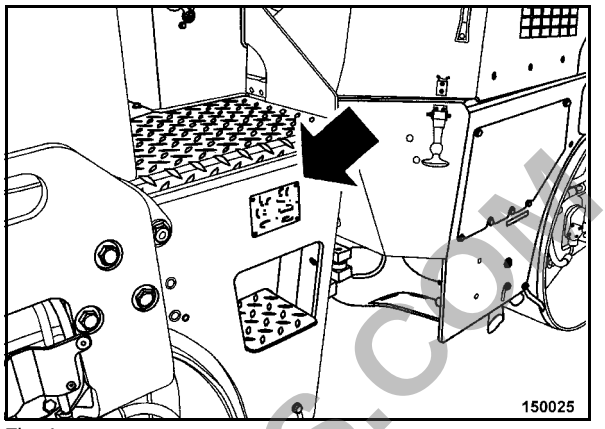


Fig. 1

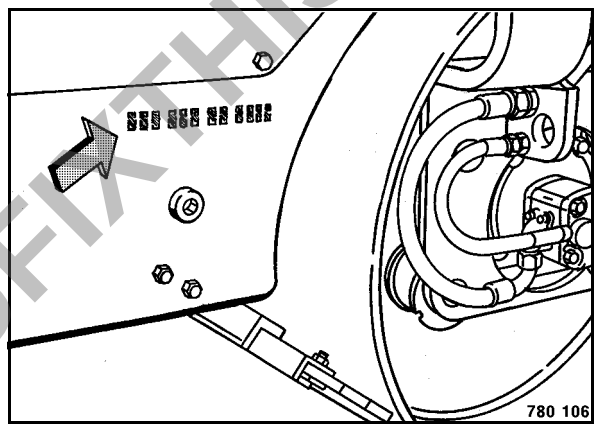


Fig. 2

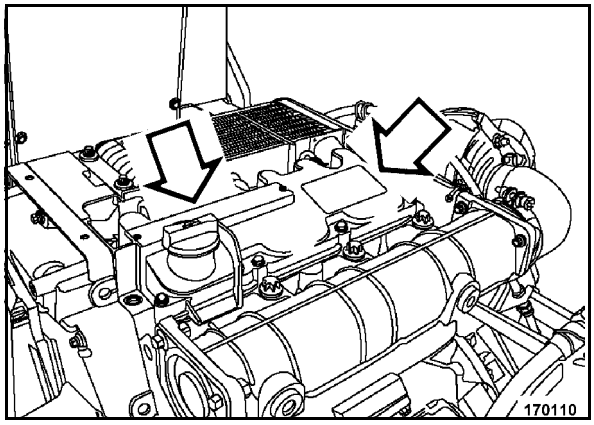


Fig. 3

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