4.1 Vie of main control panel

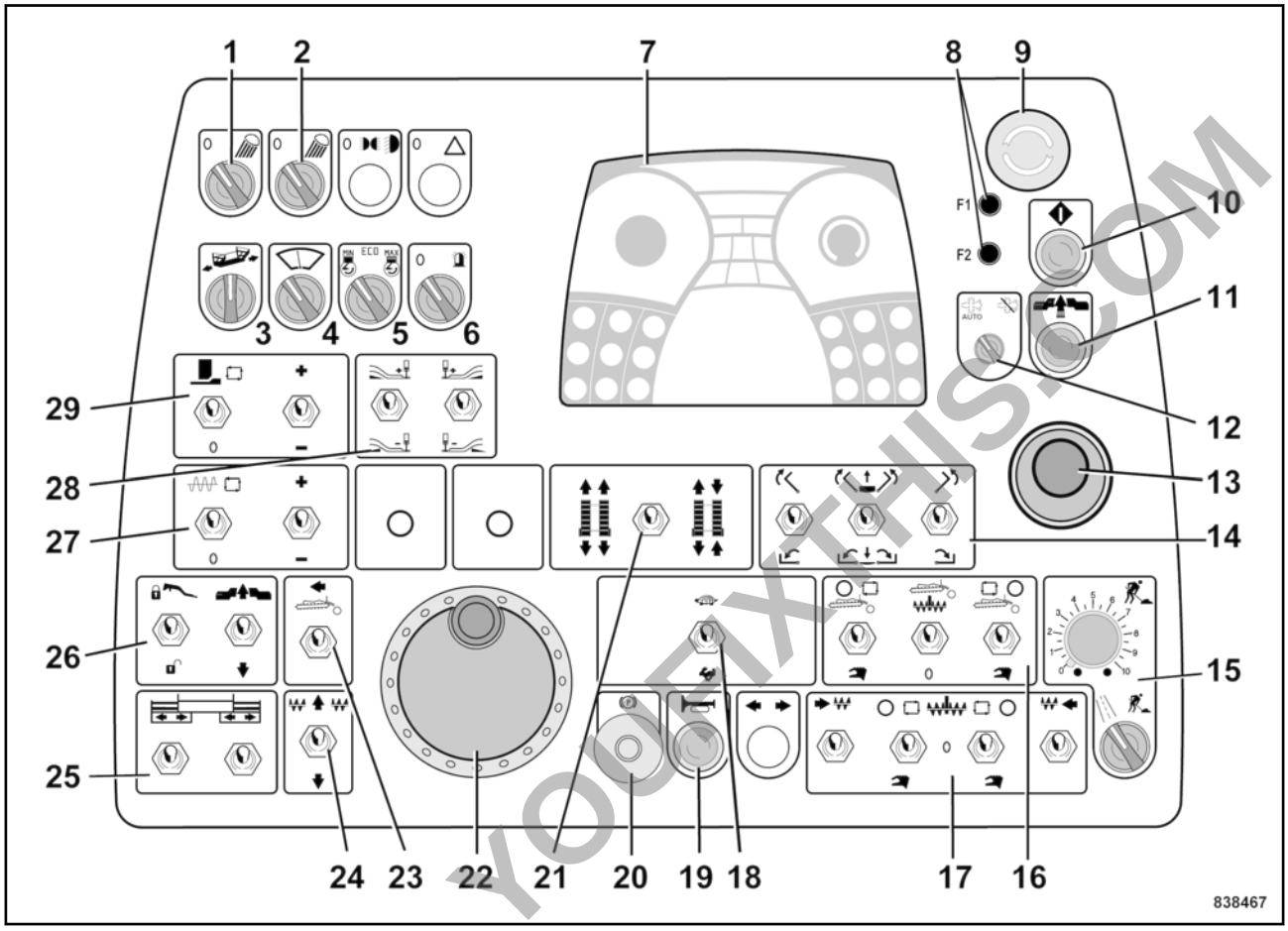


Fig. 9

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5.4 Starting the engine

Protective equipment: ■ Hearing protection

Prerequisites:

- Main battery switch switched on
- all emergency stop switches unlocked
- travel lever in "Middle" position
- with external operator stations removed: dummy plug from the accessories connected to the connecting cables

WARNING!

Loss of hearing caused by too high noise burdens!

– Wear your personal protective outfit (ear defenders).

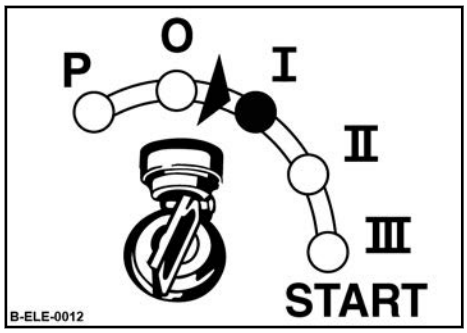


Fig. 73

Turn the ignition key to position "I".

⇨ All warning and control lamps in the instrument cluster light up for a moment.

The starter switch is designed with a re-start lock. The ignition key must first be turned back to position "0" before a new starting attempt can be made.

NOTICE!

Components may get damaged!

– Run the starting process for maximum 20 seconds without interruption and pause for a minute between starting attempts.

– If the engine has not started after two attempts, determine the cause.

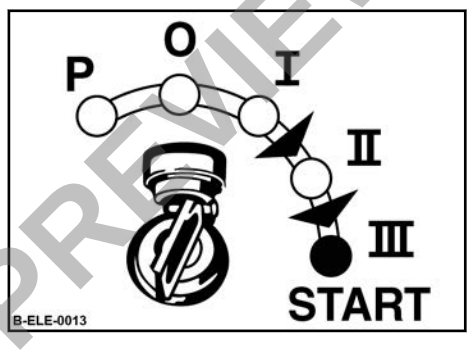


Fig. 74

Turn the ignition key through position "II" to position "III".

⇨ The starter cranks the engine.

NOTICE!

Danger of engine damage!

– Run the engine warm for a short while before starting work. Do not operate the engine immediately under full load.

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6.5 Maintenance table

No.	Maintenance works	Page
	Every 10 operating hours	
6.6.1	*Checking the engine oil level*	*125*
6.6.2	*Check the fuel level*	*125*
6.6.3	*Check the hydraulic oil level*	*127*
6.6.4	*Check the coolant level*	*128*
6.6.5	*Checking the emulsion level, topping up*	*129*
6.6.6	*Lubricating the machine*	*129*
6.6.7	*Check the grease supply in the central lubrication system*	*130*
	Every 250 operating hours	
6.7.1	*Servicing the scraper belt*	*132*
6.7.2	*Servicing the scraper belt drive chain*	*134*
6.7.3	*Servicing the auger*	*135*
6.7.4	*Greasing the gliding surface of the screed mobile section*	*137*
6.7.5	*Lubricating the machine*	*138*
6.7.6	*Checking the central lubrication system*	*140*
6.7.7	*Clean the cooling fins on engine and hydraulic oil cooler*	*140*
6.7.8	*Check the oil level in the transfer box*	*141*
6.7.9	*Checking oil level in travel gear*	*142*
6.7.10	*Servicing the V-belts for the screed heating generator*	*142*
6.7.11	*Checking hopper, scrapers and rubber apron*	*144*
	Every 500 operating hours	
6.8.1	*Change engine oil and oil filter cartridge*	*146*
6.8.2	*Check the anti-freeze concentration and the condition of the coolant*	*147*
6.8.3	*Servicing the battery, checking the battery isolation*	*148*
6.8.4	*Servicing tamper bar and levelling plate*	*149*
6.8.5	*Checking the track lengthening*	*150*
	Every 1000 operating hours	
6.9.1	*Checking the ribbed V-belt, replacing if necessary*	*151*
6.9.2	*Replace the fuel filter*	*152*
6.9.3	*Replacing the fuel pre-filter cartridge, bleed the fuel system*	*153*
6.9.4	*Change hydraulic oil and hydraulic oil filter*	*155*
6.9.5	*Oil change in transfer case*	*157*

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7.1 Preliminary remarks

Malfunctions are frequently caused by incorrect operation of the machine or insufficient maintenance. Whenever a fault occurs you should therefore thoroughly read these instruction on correct operation and maintenance.

If you cannot locate the cause of a fault or rectify it yourself by following the trouble shooting chart, you should contact our customer service department.

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General

This BOMAG machine has been built in compliance 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 obviously also applies:

- 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 the application of:

- asphalt mixes.
- hydraulically bonded base courses.
- crushed rock base courses.
- mineral mixes.
- sand.

Unintended use

Dangers may arise from the machine when it is used for purposes other than the one it is intended for.

Any danger caused by intended use is the sole responsibility of the customer or driver/operator, the manufacturer cannot be made liable.

Examples for unintended use are:

- driving on unstable sub-bases or insufficient grip or too small contact area (danger of tipping over).
- the generator is used for unauthorized external consumers.
- transportation of loose parts on the screed.
- using the machine for towing.
- using the machine for lifting.

Transporting persons, except the operating personnel, is prohibited.

Climbing onto and off the machine while driving and riding on the screed is prohibited.

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

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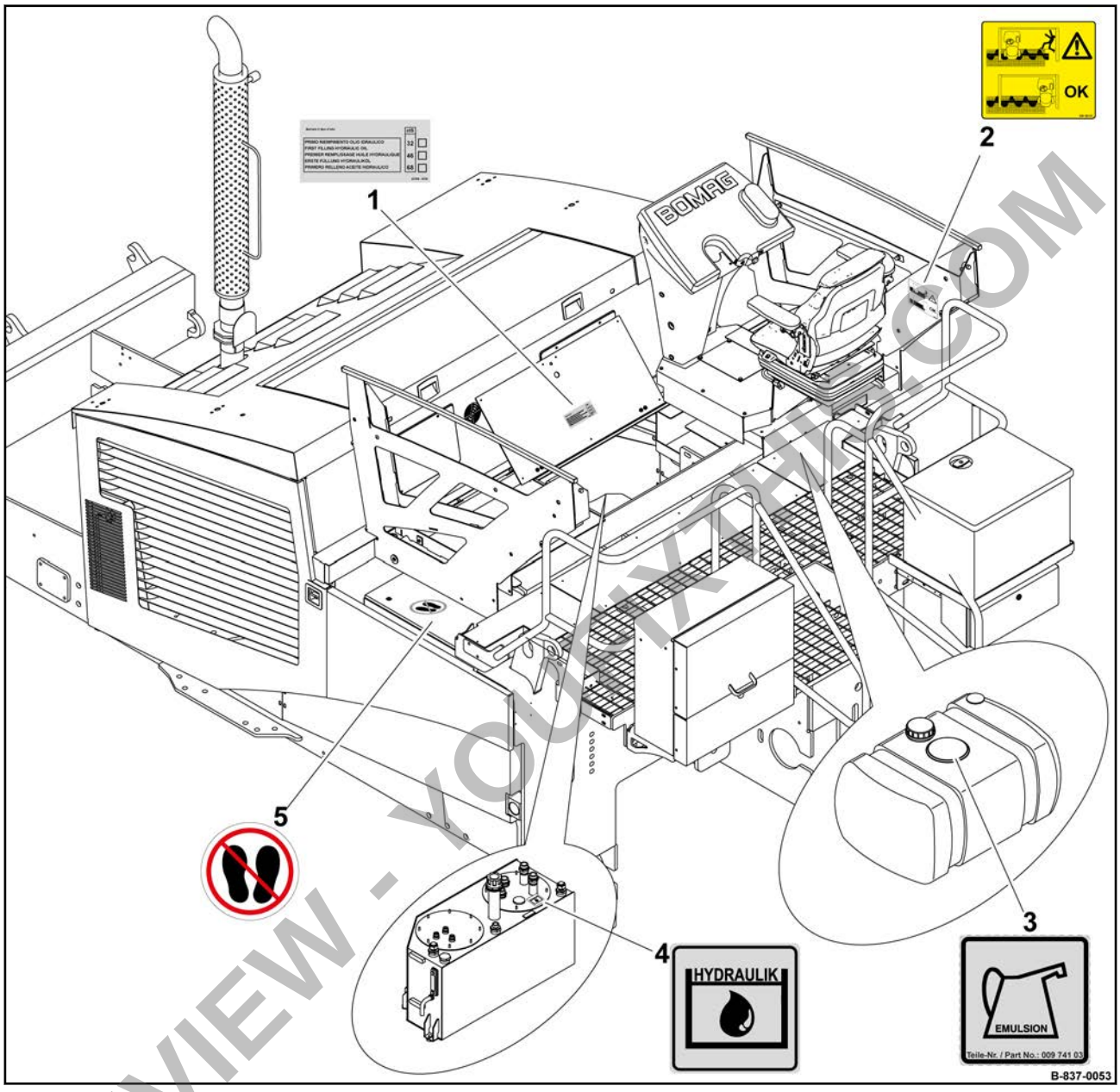


Fig. 8

1 Information sticker - Initial filling of hydraulic oil
2 Warning sticker - Danger of falling or being pulled in when working with laterally displaced operator's stand
3 Information sticker "Emulsion"
4 Information sticker - Hydraulic oil
5 Prohibition sticker - Access prohibited

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Display and control elements – View of levelling control

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5.12.7 Adjusting the angle of attack of the mobile screed sections

Normally the angle of attack does not need to be changed.

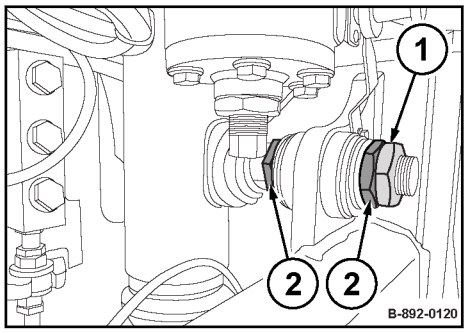


Fig. 137

Loosen the counter nut (1).

Loosen the corresponding nut (2) and turn the second nut to adjust the angle of attack as required.

Retighten nuts and counter nuts.

5.12.8 Setting vibration and tamper frequencies

Adjust the vibration frequency to match the working speed. High speed - high frequency and vice-versa.

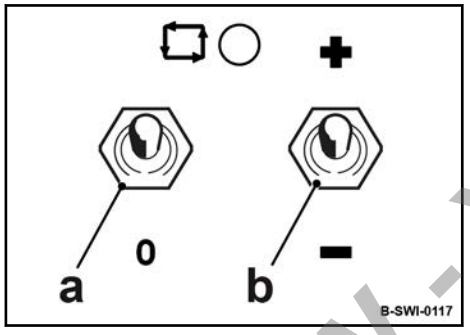


Fig. 138

Switch the toggle switch for vibration (a) to top position.

Actuate toggle button +/- (b) to adjust the vibration frequency.

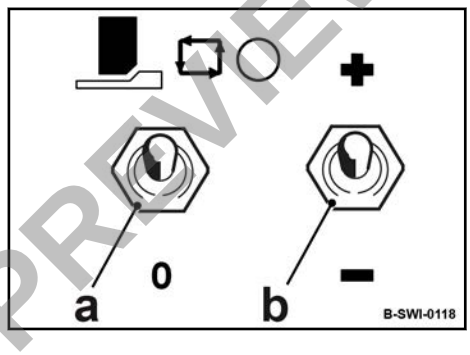


Fig. 139

Switch the toggle switch for tamper (a) to top position.

Actuate toggle button +/- (b) to adjust the tamper frequency.

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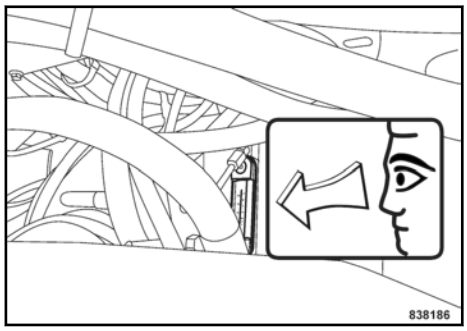


Fig. 169

Check the hydraulic oil level in the inspection glass
↳ Fig. 169 .

Normal level

approx. 3 cm below the top edge of the inspection glass.

Minimum level

Middle of inspection glass.

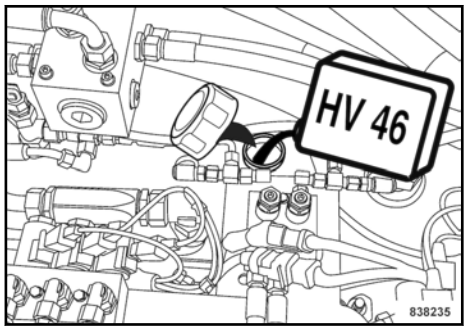


Fig. 170

If necessary fill in hydraulic oil through the filler neck
↳ Fig. 170.

6.6.4 Check the coolant level

WARNING!
Danger of scalding!
Fill up coolant only when the engine is cold.

NOTICE!

If, during the daily inspection the coolant level is found to have dropped, check all lines, hoses and engine for leaks.

Do not use radiator sealant to seal leaks.

For quality and quantity of coolant refer to the "table of fuels and lubricants".

Open the engine flap and secure it.

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WARNING!
Danger of scalding!
Danger of scalding when draining off hot oil!

NOTICE!

Drain oil only at operating temperature.

Change the oil level in both gears.

For quality and quantity of oil refer to the "table of fuels and lubricants".

Park the machine horizontally.

Remove the cover plate.

Clean the area around the drain, level inspection and filler plug.

Clean and unscrew the drain and level control plugs .

Drain and catch all oil.

Turn the drain plug tightly back in.

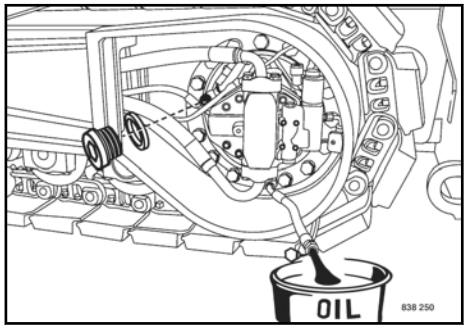


Fig. 236

Unscrew the filler plug and fill in oil, until it reaches the bottom edge of the inspection bore .

Retighten the filler and level inspection plug.

Reassemble the covering plate.

Dispose of old oil environmentally.

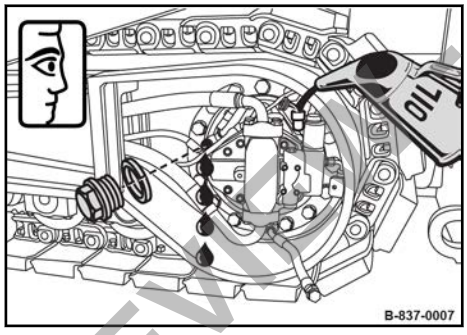


Fig. 237

6.9.7 Intercooler, drain off oil and condensation water

ENVIRONMENT!
Catch running off fluid and dispose of environmentally.

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