1 Start switch
2 LC-Display unit
3 Rotary switch for cabin fan
4 Rotary switch for air conditioning system[1]
5 Vent for heating and ventilation, driver
6 Vent for heating and ventilation, footwell
7 Travel lever
8 Display and control unit Variocontrol (BOP)
9 Rotary switch for travel ranges
10 Emergency stop push button
11 Push button for warning horn
12 Rotary switch for vibration pre-selection
13 Rotary switch for engine speed
14 Rotary switch direction indicators[1]
15 Rotary switch for hazard light system[1]
16 Rotary switch for light system[1]
17 Rotary switch for working lights[1]
18 Push button to suppress DPF-regeneration
19 Steering wheel
20 Rotary switch for cabin heater

1 - Optional equipment

4.1 General notes

If you are not yet familiar with the control and display elements on this machine you should read this section thoroughly before starting any operation on the machine. Here all functions are described in detail.

The section "Operation" contains only brief descriptions of the individual control steps.

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5.5 Starting the engine

Prerequisites:

- Main battery switch switched on
- Unlock the emergency stop switch
- Travel lever in position "middle right" (parking brake closed).

WARNING!
Danger of accident!
Start the engine only from the operator's seat.

NOTICE!
In this chapter it is assumed that the operator is fully acquainted with the function of the different control elements on the machine.

Fasten your seat belt ↳ Fig. 46.

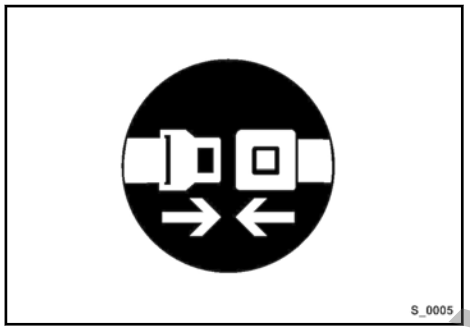


Fig. 46

Switch the rotary switch for vibration amplitude pre-selection ↳ Fig. 47 to position "0".

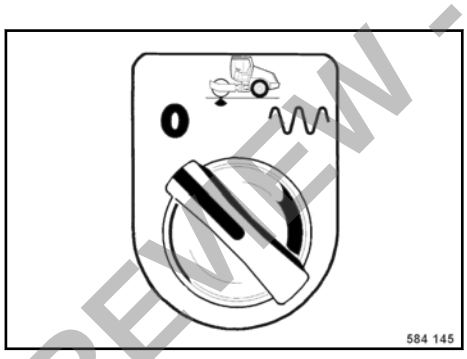


Fig. 47

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6.5 Maintenance table

No.	Maintenance works	Page
	Every 10 operating hours	
6.6.1	*Check the engine oil level*	*135*
6.6.2	*Checking the fuel level*	*135*
6.6.3	*Check the coolant level*	*137*
6.6.4	*Check the hydraulic oil level*	*137*
	Every 250 operating hours	
6.7.1	*Check the tire pressure*	*139*
6.7.2	*Clean the cooling fins on engine and hydraulic oil cooler*	*139*
6.7.3	*Check the oil level in the drive axle*	*140*
6.7.4	*Check the oil level in the wheel hubs*	*141*
6.7.5	*Check the oil level in the axle reduction gear*	*142*
6.7.6	*Check the oil level in the drum reduction gear*	*142*
6.7.7	*Check the parking brake*	*142*
6.7.8	*Servicing the V-belt for the air-con compressor*[Optional equipment]	*143*
	Every 500 operating hours	
6.8.1	*Change engine oil and oil filter cartridge*	*144*
6.8.2	*Check the anti-freeze concentration and the condition of the coolant*	*145*
6.8.3	*Checking, cleaning the water separator*	*146*
6.8.4	*Draining the sludge from the fuel tank*	*147*
6.8.5	*Battery service*	*148*
6.8.6	*Servicing the air conditioning system*[optional equipment]	*149*
6.8.7	*Cleaning the circulation air filter for the heating*[Optional equipment]	*152*
6.8.8	*Changing the bypass filter*[Optional equipment]	*153*
	Every 1000 operating hours	
6.9.1	*Checking / replacing the ribbed V-belt*	*154*
6.9.2	*Replace the fuel filter cartridge*	*155*
6.9.3	*Change the fuel pre-filter cartridge*	*156*
6.9.4	*Checking the crankcase ventilation valve*	*158*
6.9.5	*Check the engine mounts*	*158*
6.9.6	*Checking the engine pillow blocks*	*158*
6.9.7	*Changing the oil in the drive axle*	*158*
6.9.8	*Changing the oil in the wheel hubs*	*160*

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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:

- medium to heavy compaction work in earth construction (road sub-bases)
- probably compaction of bituminous material, e.g. road surface layers.

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:

- work with vibration on hard concrete, cured bitumen layers or extremely frozen ground
- driving on unstable subbases or too small contact area (danger of tipping over)
- using the machine for towing
- use to pull down walls or demolish buildings

Transporting persons, except the machine driver, is prohibited.

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

Remaining dangers, remaining risks

Despite careful work and compliance with standards and regulations it cannot be ruled out that further dangers may arise when working with and handling the machine.

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INFO 2 button	To change in the INFO 2 display field (q) between vehicle voltage, inclination, engine oil pressure or vibration frequency.

Switching over possible during travel.

both buttons together	To change in the INFO 1+2 display field (b) between time and coolant temperature. To set time/date and display brightness and to change between metric and imperial units.

Only possible with the parking brake applied.

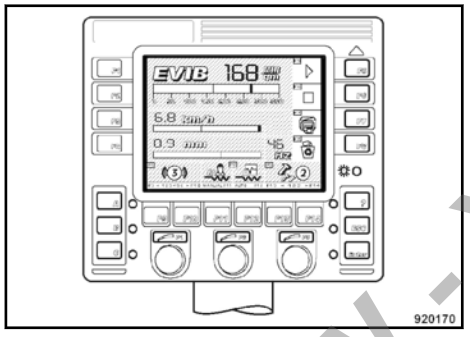


Fig. 18

- Display and control unit Variocontrol (BOP)

Description see chapter "Display and control elements Variocontrol"

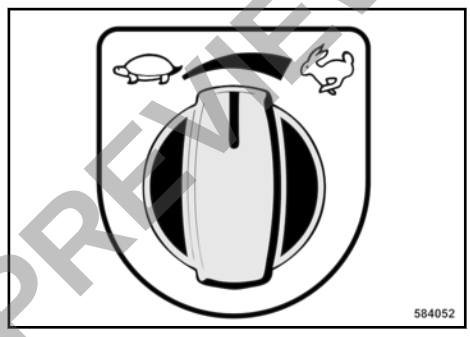


Fig. 19

- Rotary switch for travel ranges

turn anti-clockwise	Reduce travel range
turn clockwise	Increase travel range

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5.8 Using the machine for rock crushing

NOTICE!

Components may get damaged!

Crushing rock and compacting this surface may only take place after the surface has been levelled by a caterpillar vehicle.

Operating the roller against the placed layer will cause substantial damage to the machine.

The layer must have a flatness of <50 cm.

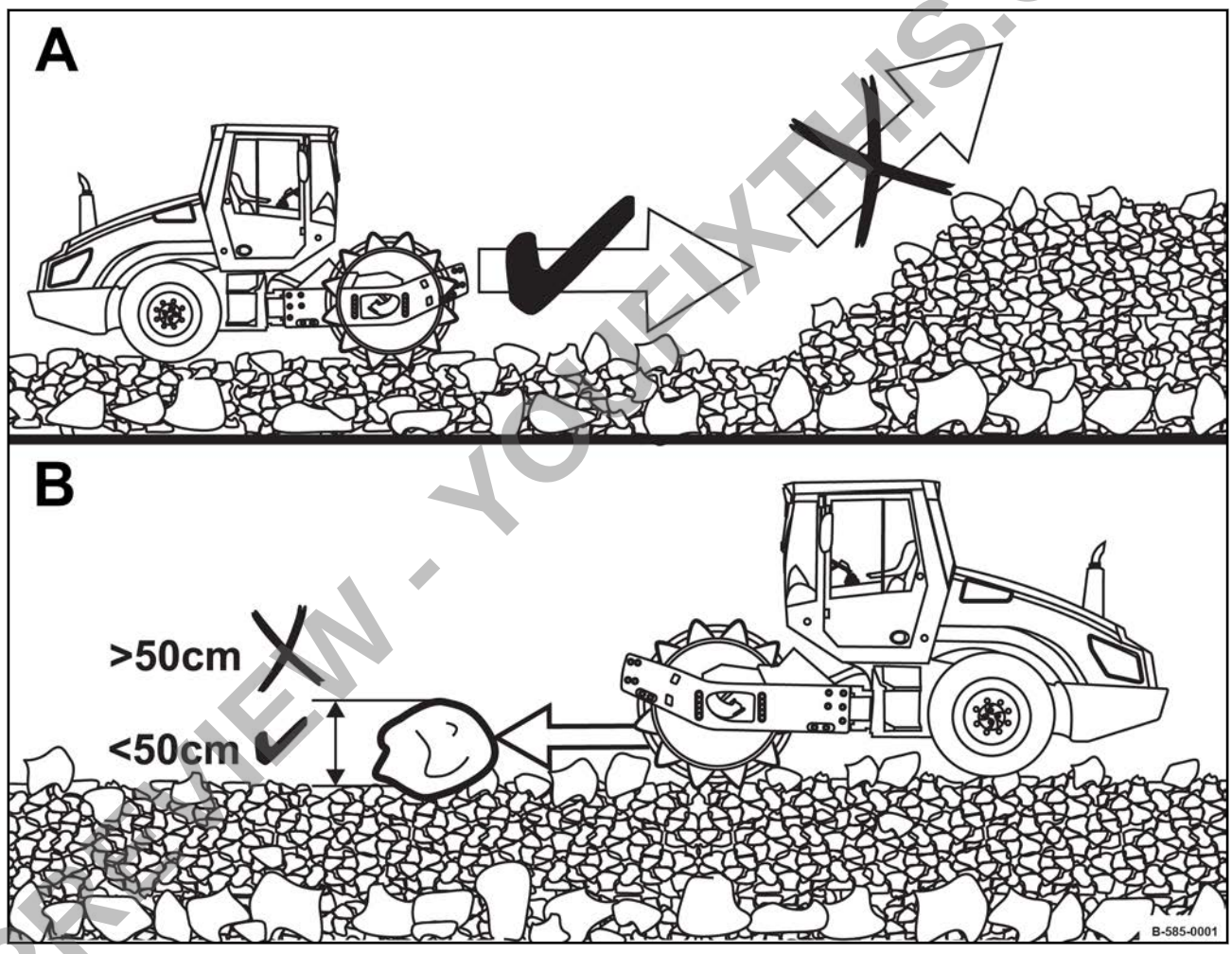


Fig. 58

Have the layer flattened before using the machine as a rock crusher.

Work with the machine only up to the placed layer (A).

Use the machine only with lift height of less than 50 cm (B).

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5.22 Teaching distance pulses

The distance pulses have already been set by default when setting the correct machine type.

Due to slippage of the drums the recorded distance measurement may differ from the actually driven distance.

An adaptation of the distance pulses is only possible within a range of +/- 10% of the preset value.

Compare the actually driven distance with the recorded distance in the printed line diagram. Optional equipment

In case of different distances an adaptation to these distances is required.

Engine running.

Press key "?" (menu) ↳ Fig. 135.

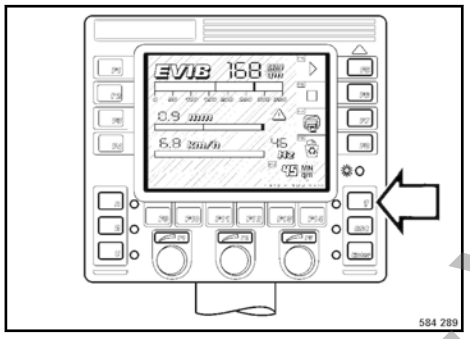


Fig. 135

The menu appears on the screen.

Press key "F8" (distance pulses) ↳ Fig. 136.

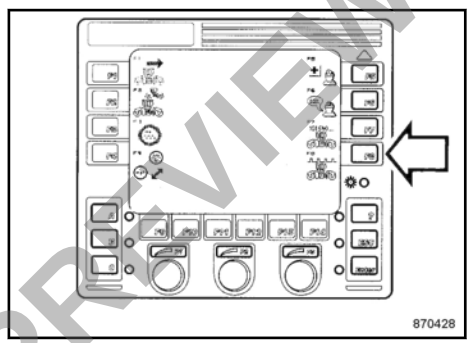


Fig. 136

The screen page with the pre-set distance pulses appears.

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6.7 Every 250 operating hours

6.7.1 Check the tire pressure

NOTICE!

Because of the water filling in the tires, you should always check the tire pressure with the tire valve in top position!

Always close the valves with their dust caps.

Adaptation to operating conditions:

The tire pressure can be adapted to the operating conditions within the specified limits.

A reduced tire pressure improves the traction especially on sandy soils. Higher tires pressures improve the driving stability of the machine.

The total height of the machine can also be influenced by changing the tire pressure.

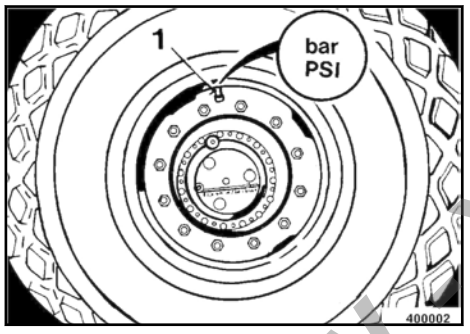


Fig. 169

With the tire inflation valve check the air pressure on tire inflation valve 1 ↳ Fig. 169 with a pressure gauge.

Nominal value, see "technical data".

Ensure equal pressure in all rubber tires!

Screw the valve caps back on again.

6.7.2 Clean the cooling fins on engine and hydraulic oil cooler

WARNING!

Danger of injury!

Perform cleaning work only after the engine has cooled down and with the engine stopped.

NOTICE!

Do not damage any cooling fins on the cooler core when cleaning.

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6.10.6 Checking the DBF-burner

NOTICE!

This work must only be performed by authorized service personnel.

Check the spark plug of the DBF-burner.

Check the DBF-filter element

6.10.7 Checking, cleaning the components of the exhaust gas aftertreatment system

This work must only be performed by authorized service personnel.

Check, clean the charge pressure sensor.

Check, clean the Venturi sensor and the exhaust gas recirculation system adapter plate underneath.

Check, clean the differential pressure sensor of the DPF

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